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Title 50: Wildlife and Fisheries

PART 17—ENDANGERED AND THREATENED WILDLIFE AND PLANTS

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Authority: 16 U.S.C. 1361–1407; 16 U.S.C. 1531–1544; 16 U.S.C. 4201–4245; Pub. L. 99–625, 100 Stat. 3500; unless otherwise noted.

Source: 40 FR 44415, Sept. 26, 1975, unless otherwise noted.

Subpart A—Introduction and General Provisions

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§ 17.1 Purpose of regulations.

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(a) The regulations in this part implement the Endangered Species Act of 1973, 87 Stat. 884, 16 U.S. C. 1531–1543, except for those provisions in the Act concerning the Convention on International Trade in Endangered Species of Wild Fauna and Flora, for which regulations are provided in part 23

of this subchapter.

(b) The regulations identify those species of wildlife and plants determined by the Director to be endangered or threatened with extinction under section 4(a) of the Act and also carry over the species and subspecies of wildlife designated as endangered under the Endangered Species Conservation Act of 1969 (83 Stat. 275, 16 U.S.C. 668cc–1 to 6) which are deemed endangered species under section 4 (c)(3) of the Act.

[40 FR 44415, Sept. 26, 1975, as amended at 42 FR 10465, Feb. 22, 1977]

§ 17.2 Scope of regulations.

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(a) The regulations of this part apply only to endangered and threatened wildlife and plants.

(b) By agreement between the Service and the National Marine Fisheries Service, the jurisdiction of the Department of Commerce has been specifically defined to include certain species, while jurisdiction is shared in regard to certain other species. Such species are footnoted in subpart B of this part, and reference is given to special rules of the National Marine Fisheries Service for those species.

(c) The provisions in this part are in addition to, and are not in lieu of, other regulations of this subchapter B which may require a permit or prescribe additional restrictions or conditions for the importation, exportation, and interstate transportation of wildlife.

(d) The examples used in this part are provided solely for the convenience of the public, and to explain the intent and meaning of the regulation to which they refer. They have no legal significance.

(e) Certain of the wildlife and plants listed in §§17.11 and 17.12 as endangered or threatened are included in Appendix I, II or III to the Convention on International Trade in Endangered Species of Wild Fauna and Flora. The importation, exportation and reexportation of such species are subject to additional regulations provided in part 23 of this subchapter.

[40 FR 44415, Sept. 26, 1975, as amended at 42 FR 10465, Feb. 22, 1977]

§ 17.3 Definitions.

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In addition to the definitions contained in part 10 of this subchapter, and unless the context otherwise requires, in this part 17:

Act means the Endangered Species Act of 1973 (16 U.S.C. 1531–1543; 87 Stat. 884);

Adequately covered means, with respect to species listed pursuant to section 4 of the ESA, that a proposed conservation plan has satisfied the permit issuance criteria under section 10(a)(2)(B) of the ESA for the species covered by the plan, and, with respect to unlisted species, that a proposed conservation plan has satisfied the permit issuance criteria under section 10(a)(2)(B) of the ESA that would otherwise apply if the unlisted species covered by the plan were actually listed. For the Services to cover a species under a conservation plan, it must be listed on the section 10(a)(1)(B) permit.

Alaskan Native means a person defined in the Alaska Native Claims Settlement Act (43 U.S.C. 1603 (b) (85 Stat. 588)) as a citizen of the United States who is of one-fourth degree or more Alaska Indian (including Tsimshian Indians enrolled or not enrolled in the Metlaktla Indian Community), Eskimo, or Aleut blood, or combination thereof. The term includes any Native, as so defined, either or both of whose adoptive parents are not Natives. It also includes, in the absence of proof of a minimum blood quantum, any citizen of the United States who is regarded as an Alaska Native by the Native village or town of which he claims to be a member and whose father or mother is (or, if deceased, was) regarded as Native by any Native village or Native town. Any citizen enrolled by the Secretary pursuant to section 5 of the Alaska Native Claims Settlement Act shall be conclusively presumed to be an Alaskan Native for purposes of this part;

Authentic native articles of handicrafts and clothing means items made by an Indian, Aleut, or Eskimo which (a) were commonly produced on or before December 28, 1973, and (b) are composed wholly or in some significant respect of natural materials, and (c) are significantly altered from their natural form and which are produced, decorated, or fashioned in the exercise of traditional native handicrafts without the use of pantographs, multiple carvers, or similar mass copying devices. Improved methods of production utilizing modern implements such as sewing machines or modern techniques at a tannery registered pursuant to §18.23(c) of this subchapter (in the case of marine mammals) may be used so long as no large scale mass production industry results. Traditional native handicrafts include, but are not limited to, weaving, carving, stitching, sewing, lacing, beading, drawing, and painting. The formation of traditional native groups such as cooperatives, is permitted so long as no large scale mass production results;

Bred in captivity or *captive-bred* refers to wildlife, including eggs, born or otherwise produced in captivity from parents that mated or otherwise transferred gametes in captivity, if reproduction is sexual, or from parents that were in captivity when development of the progeny began, if development is asexual.

Captivity means that living wildlife is held in a controlled environment that is intensively manipulated by man for the purpose of producing wildlife of the selected species, and that has boundaries designed to prevent animal, eggs or gametes of the selected species from entering or leaving the controlled environment. General characteristics of captivity may include but are not limited to artificial housing, waste removal, health care, protection from predators, and artificially supplied food.

Changed circumstances means changes in circumstances affecting a species or geographic area covered by a conservation plan or agreement that can reasonably be anticipated by plan or agreement developers and the Service and that can be planned for (e.g., the listing of new species, or a fire or other natural catastrophic event in areas prone to such events).

Conservation plan means the plan required by section 10(a)(2)(A) of the ESA that an applicant must submit when applying for an incidental take permit. Conservation plans also are known as “habitat conservation plans” or “HCPs.”

Conserved habitat areas means areas explicitly designated for habitat restoration, acquisition, protection, or other conservation purposes under a conservation plan.

Convention means the Convention on International Trade in Endangered Species of Wild Fauna and Flora, TIAS 8249.

Enhance the propagation or survival, when used in reference to wildlife in captivity, includes but is not limited to the following activities when it can be shown that such activities would not be detrimental to the survival of wild or captive populations of the affected species:

(a) Provision of health care, management of populations by culling, contraception, euthanasia, grouping or handling of wildlife to control survivorship and reproduction, and similar normal practices of animal husbandry needed to maintain captive populations that are self-sustaining and that possess as much genetic vitality as possible;

(b) Accumulation and holding of living wildlife that is not immediately needed or suitable for propagative or scientific purposes, and the transfer of such wildlife between persons in order to relieve crowding or other problems hindering the propagation or survival of the captive population at the location from which the wildlife would be removed; and

(c) Exhibition of living wildlife in a manner designed to educate the public about the ecological role and conservation needs of the affected species.

Endangered means a species of wildlife listed in §17.11 or a species of plant listed in §17.12 and designated as endangered.

Harass in the definition of “take” in the Act means an intentional or negligent act or omission which creates the likelihood of injury to wildlife by annoying it to such an extent as to significantly disrupt normal behavioral patterns which include, but are not limited to, breeding, feeding, or sheltering. This definition, when applied to captive wildlife, does not include generally accepted:

(1) Animal husbandry practices that meet or exceed the minimum standards for facilities and care under the Animal Welfare Act,

(2) Breeding procedures, or

(3) Provisions of veterinary care for confining, tranquilizing, or anesthetizing, when such practices, procedures, or provisions are not likely to to result in injury to the wildlife.

Harm in the definition of “take” in the Act means an act which actually kills or injures wildlife. Such act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

Incidental taking means any taking otherwise prohibited, if such taking is incidental to, and not the purpose of, the carrying out of an otherwise lawful activity.

Industry or trade in the definition of “commercial activity” in the Act means the actual or intended transfer of wildlife or plants from one person to another person in the pursuit of gain or profit;

Native village or town means any community, association, tribe, clan or group;

Operating conservation program means those conservation management activities which are expressly agreed upon and described in a conservation plan or its Implementing Agreement, if any, and which are to be undertaken for the affected species when implementing an approved conservation plan, including measures to respond to changed circumstances.

Population means a group of fish or wildlife in the same taxon below the subspecific level, in common spatial arrangement that interbreed when mature;

Properly implemented conservation plan means any conservation plan, Implementing Agreement and permit whose commitments and provisions have been or are being fully implemented by the permittee.

Property owner with respect to agreements outlined under §§17.22(c), 17.22(d), 17.32(c), and 17.32 (d) means a person with a fee simple, leasehold, or other property interest (including owners of water or other natural resources), or any other entity that may have a property interest, sufficient to carry out the proposed management activities, subject to applicable State law, on non-Federal land.

Specimen means any animal or plant, or any part, product, egg, seed or root of any animal or plant;

Subsistence means the use of endangered or threatened wildlife for food, clothing, shelter, heating, transportation and other uses necessary to maintain the life of the taker of the wildlife, or those who depend upon the taker to provide them with such subsistence, and includes selling any edible portions of such wildlife in native villages and towns in Alaska for native consumption within native villages and towns;

Threatened means a species of wildlife listed in §17.11 or plant listed in §17.12 and designated as threatened.

Unforeseen circumstances means changes in circumstances affecting a species or geographic area covered by a conservation plan or agreement that could not reasonably have been anticipated by plan or agreement developers and the Service at the time of the conservation plan's or agreement's negotiation and development, and that result in a substantial and adverse change in the status of the covered species.

Wasteful manner means any taking or method of taking which is likely to result in the killing or injury of endangered or threatened wildlife beyond those needed for subsistence purposes, or which results in the waste of a substantial portion of the wildlife, and includes without limitation the employment of a method of taking which is not likely to assure the capture or killing of the wildlife, or which is not immediately followed by a reasonable effort to retrieve the wildlife.

[40 FR 44415, Sept. 26, 1975, as amended at 42 FR 28056, June 1, 1977; 44 FR 54006, Sept. 17, 1979; 46 FR 54750, Nov. 4, 1981; 47 FR 31387, July 20, 1982; 50 FR 39687, Sept. 30, 1985; 63 FR 8870, Feb. 23, 1998; 63 FR 48639, Sept. 11, 1998; 69 FR 24092, May 3, 2004]

§ 17.4 Pre-Act wildlife.

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(a) The prohibitions defined in subparts C and D of this part 17 shall not apply to any activity involving endangered or threatened wildlife which was held in captivity or in a controlled environment on December 28, 1973: *Provided,*

(1) That the purposes of such holding were not contrary to the purposes of the Act; and

(2) That the wildlife was not held in the course of a commercial activity.

Example 1. On January 25, 1974, a tourist buys a stuffed hawksbill turtle (an endangered species listed since June, 1970), in a foreign country. On December 28, 1973, the stuffed turtle had been on display for sale. The tourist imports the stuffed turtle into the United States on January 26, 1974. This is a violation of the Act since the stuffed turtle was held for commercial purposes on December 28, 1973. *Example 2.* On December 27, 1973 (or earlier), a tourist buys a leopard skin coat (the leopard has been listed as endangered since March 1972) for his wife in a foreign country. On January 5, he imports it into the United States. He has not committed a violation since on December 28, 1973, he was the owner of the coat, for personal purposes, and the chain of commerce had ended with the sale on the 27th. Even if he did not finish paying for the coat for another year, as long as he had possession of it, and he was not going to resell it, but was using it for personal purposes, the Act does not apply to that coat. *Example 3.* On or before December 28, 1973, a hunter kills a leopard legally in Africa. He has the leopard mounted and imports it into the United States in March 1974. The importation is not subject to the Act. The hunter has not engaged in a commercial activity, even though he bought the services of a guide, outfitters, and a taxidermist to help him take, preserve, and import the leopard. This applies even if the trophy was in the possession of the taxidermist on December 28, 1973. *Example 4.* On January 15, 1974, a hunter kills a leopard legally in Africa. He has the leopard mounted and imports it into the United States in June 1974. This importation is a violation of the Act since the leopard was not in captivity or a controlled environment on December 28, 1973.

(b) Service officers or Customs officers may refuse to clear endangered or threatened wildlife for importation into or exportation from the United States, pursuant to §14.53 of this subchapter, until the importer or exporter can demonstrate that the exemption referred to in this section applies. Exempt status may be established by any sufficient evidence, including an affidavit containing the following:

(1) The affiant's name and address;

(2) Identification of the affiant;

(3) Identification of the endangered or threatened wildlife which is the subject of the affidavit;

(4) A statement by the affiant that to the best of his knowledge and belief, the endangered or threatened wildlife which is the subject of the affidavit was in captivity or in a controlled environment on December 28, 1973, and was not being held for purposes contrary to the Act or in the course of a commercial activity;

(5) A statement by the affiant in the following language:

The foregoing is principally based on the attached exhibits which, to the best of my knowledge and belief, are complete, true and correct. I understand that this affidavit is being submitted for the purpose of inducing the Federal Government to recognize an exempt status regarding (*insert description of wildlife*), under the Endangered Species Act of 1973 (16 U.S.C. 1531–1543), and regulations promulgated thereunder, and that any false statements may subject me to the criminal penalties of 18 U.S.C. 1001.

(6) As an attachment, records or other available evidence to show:

(i) That the wildlife in question was being held in captivity or in a controlled environment on December 28, 1973;

(ii) The purpose for which the wildlife was being held; and

(iii) The nature of such holding (to establish that no commercial activity was involved).

(c) This section applies only to wildlife born on or prior to December 28, 1973. It does not apply to the progeny of any such wildlife born after December 28, 1973.

§ 17.5 Alaska natives.

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(a) The provisions of subpart C of this part relating to the importation or the taking of endangered wildlife, and any provision of subpart D of this part relating to the importation or the taking of threatened wildlife, shall not apply to:

(1) Any Indian, Aleut, or Eskimo who is an Alaskan native and who resides in Alaska; or

(2) Any non-native permanent resident of an Alaskan native village who is primarily dependent upon the taking of wildlife for consumption or for the creation and sale of authentic native articles of handicrafts and clothing:

If the taking is primarily for subsistence purposes, and is not accomplished in a wasteful manner.

(b) Edible portions of endangered or threatened wildlife taken or imported pursuant to paragraph (a) of this section may be sold in native villages or towns in Alaska for native consumption within native villages and towns in Alaska.

(c) Non-edible by-products of endangered or threatened wildlife taken or imported pursuant to paragraph (a) of this section may be sold in interstate commerce when made into authentic native articles of handicrafts and clothing.

§ 17.6 State cooperative agreements. [Reserved]

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§ 17.7 Raptor exemption.

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(a) The prohibitions found in §§17.21 and 17.31 do not apply to any raptor [a live migratory bird of the Order *Falconiformes* or the Order *Strigiformes*, other than a bald eagle (*Haliaeetus leucocephalus*) or a golden eagle (*Aquila chrysaetos*)] legally held in captivity or in a controlled environment on November 10, 1978, or to any of its progeny, which is:

(1) Possessed and banded in compliance with the terms of a valid permit issued under part 21 of this chapter; and

(2) Identified in the earliest applicable annual report required to be filed by a permittee under part 21 of this chapter as in a permittee's possession on November 10, 1978, or as the progeny of such a raptor.

(b) This section does not apply to any raptor intentionally returned to the wild.

[48 FR 31607, July 8, 1983]

§ 17.8 Permit applications and information collection requirements.

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(a) Address permit applications for activities affecting species listed under the Endangered Species Act, as amended, as follows:

(1) Address activities affecting endangered and threatened species that are native to the United States to the Regional Director for the Region in which the activity is to take place. You can find addresses for the Regional Directors in 50 CFR 2.2. Send applications for interstate commerce in native endangered and threatened species to the Regional Director with lead responsibility for the species. To determine the appropriate region, call the nearest Regional Office:

Region 1 (Portland, OR): 503–231–6241

Region 2 (Albuquerque, NM): 505–248–6920

Region 3 (Twin Cities, MN): 612–713–5343

Region 4 (Atlanta, GA): 404–679–7313

Region 5 (Hadley, MA): 413–253–8628

Region 6 (Denver, CO): 303–236–8155, ext 263

Region 7 (Anchorage, AK): 907–786–3620

Headquarters (Washington, DC): 703–358–2106

(2) Submit permit applications for activities affecting native endangered and threatened species in international movement or commerce, and all activities affecting nonnative endangered and threatened species to the Director, U.S. Fish and Wildlife Service, (Attention Office of Management Authority), 4401 N. Fairfax Drive, Room 700, Arlington, VA 22203.

(b) The Office of Management and Budget approved the information collection requirements contained in this part 17 under 44 U.S.C. 3507 and assigned OMB Control Numbers 1018–0093 and 1018–0094. The Service may not conduct or sponsor, and you are not required to respond to, a collection of information unless it displays a currently valid OMB control number. We are collecting this information to provide information necessary to evaluate permit applications. We will use this information to review permit applications and make decisions, according to criteria established in various Federal wildlife conservation statutes and regulations, on the issuance, suspension, revocation, or denial of permits. You must respond to obtain or retain a permit. We estimate the public reporting burden for these reporting requirements to vary from 2 to 2 1/2 hours per response, including time for reviewing instructions, gathering and maintaining data, and completing and reviewing the forms. Direct comments regarding the burden estimate or any other aspect of these reporting requirements to the Service Information Collection Control Officer, MS–222 ARLSQ, U.S. Fish and Wildlife Service, Washington, DC 20240, or the Office of Management and Budget, Paperwork Reduction Project (1018–0093/0094), Washington, DC 20603.

[63 FR 52635, Oct. 1, 1998]

Subpart B—Lists

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§ 17.11 Endangered and threatened wildlife.

top Link to an amendment published at 69 FR 21438, April 21, 2004.
Link to an amendment published at 69 FR 53160, August 31, 2004.

(a) The list in this section contains the names of all species of wildlife which have been determined by the Services to be Endangered or Threatened. It also contains the names of species of wildlife treated as Endangered or Threatened because they are sufficiently similar in appearance to Endangered or Threatened species (see §17.50 *et seq*.).

(b) The columns entitled “Common Name,” “Scientific Name,” and “Vertebrate Population Where Endangered or Threatened” define the species of wildlife within the meaning of the Act. Thus, differently classified geographic populations of the same vertebrate subspecies or species shall be identified by their differing geographic boundaries, even though the other two columns are identical. The term “Entire” means that all populations throughout the present range of a vertebrate species are listed. Although common names are included, they cannot be relied upon for identification of any specimen, since they may vary greatly in local usage. The Services shall use the most recently

accepted scientific name. In cases in which confusion might arise, a synonym(s) will be provided in parentheses. The Services shall rely to the extent practicable on the *International Code of Zoological Nomenclature*.

(c) In the “Status” column the following symbols are used: “E” for Endangered, “T” for Threatened, and “E [or T] (S/A)” for similarity of appearance species.

(d) The other data in the list are nonregulatory in nature and are provided for the information of the reader. In the annual revision and compilation of this title, the following information may be amended without public notice: the spelling of species' names, historical range, footnotes, references to certain other applicable portions of this title, synonyms, and more current names. In any of these revised entries, neither the species, as defined in paragraph (b) of this section, nor its status may be changed without following the procedures of part 424 of this title.

(e) The “historic range” indicates the known general distribution of the species or subspecies as reported in the current scientific literature. The present distribution may be greatly reduced from this historic range. This column does not imply any limitation on the application of the prohibitions in the Act or implementing rules. Such prohibitions apply to all individuals of the species, wherever found.

(f)(1) A footnote to the Federal Register publication(s) listing or reclassifying a species is indicated under the column “When listed.” Footnote numbers to §§17.11 and 17.12 are in the same numerical sequence, since plants and animals may be listed in the same Federal Register document. That document, at least since 1973, includes a statement indicating the basis for the listing, as well as the effective date(s) of said listing.

(2) The “Special rules” and “Critical habitat” columns provide a cross reference to other sections in parts 17, 222, 226, or 227. The “Special rules” column will also be used to cite the special rules that describe experimental populations and determine if they are essential or nonessential. Separate listing will be made for experimental populations, and the status column will include the following symbols: “XE” for an essential experimental population and “XN” for a nonessential experimental population. The term “NA” (not applicable) appearing in either of these two columns indicates that there are no special rules and/or critical habitat for that particular species. However, all other appropriate rules in parts 17, 217 through 227, and 402 still apply to that species. In addition, there may be other rules in this title that relate to such wildlife, e.g., port-of-entry requirements. It is not intended that the references in the “Special rules” column list all the regulations of the two Services which might apply to the species or to the regulations of other Federal agencies or State or local governments.

(g) The listing of a particular taxon includes all lower taxonomic units. For example, the genus *Hylobates* (gibbons) is listed as Endangered throughout its entire range (China, India, and SE Asia); consequently, all species, subspecies, and populations of that genus are considered listed as Endangered for the purposes of the Act. In 1978 (43 FR 6230–6233) the species *Haliaeetus leucocephalus* (bald eagle) was listed as Threatened in “USA (WA, OR, MN, WI, MI)” rather than its entire population; thus, all individuals of the bald eagle found in those five States are considered listed as Threatened for the purposes of the Act.

(h) The “List of Endangered and Threatened Wildlife” is provided below:

Species		Historic Range	Vertebrate population where endangered or threatened	Status	When listed	Critical habitat	Special rules
Common name	Scientific name						
Mammals							
Anoa, lowland	Bubalus depressicornis	Indonesia	Entire	E	3	NA	NA
Anoa, mountain	Bubalus quarlesi	do	do	E	15	NA	NA
Antelope, giant sable	Hippotragus niger variani	Angola	do	E	15	NA	NA
Argali	Ovis ammon	Afganistan, China, India, Kazakhstan, Kyrgyzstan, Mongolia, Nepal, Pakistan, Russia, Tajikistan, Uzbekistan	Entire except Kyrgyzstan, Mongolia, and Tajikistan	E	15, 475	NA	NA
Do	do	do	Kyrgyzstan, Mongolia, and Tajikistan	T	15, 475	NA	17.40(j)
Armadillo, giant	Priodontes maximus	Venezuela and Guyana to Argentina	Entire	E	15	NA	NA
Armadillo, pink fairy	Chlamyphorus truncatus	Argentina	do	E	3	NA	NA
Ass, African wild	Equus asinus	Somalia, Sudan, Ethiopia	do	E	3, 22	NA	NA
Ass, Asian wild	Equus hemionus	Southwestern and Central Asia	do	E	3	NA	NA
Avahi	Avahi laniger (=entire genus)	Malagasy Republic (=Madagascar)	do	E	3	NA	NA
Aye-aye	Daubentonia madagascariensis	do	do	E	3	NA	NA
Babirusa	Babyrousa babyrussa	Indonesia	do	E	15	NA	NA
Baboon, gelada	Theropithecus gelada	Ethiopia	do	T	16	NA	17.40(c)
Bandicoot, barred	Perameles bougainville	Australia	do	E	4	NA	NA
Bandicoot, desert	Perameles eremiana	do	do	E	6	NA	NA
Bandicoot, lesser rabbit	Macrotis leucura	do	do	E	4	NA	NA
Bandicoot, pig-footed	Chaeropus ecaudatus	do	do	E	4	NA	NA
Bandicoot, rabbit	Macrotis lagotis	do	do	E	4	NA	NA
Banteng	Bos javanicus	Southeast Asia	do	E	3	NA	NA
Bat, Bulmer's fruit (flying fox)	Aproteles bulmerae	Papua New Guinea	do	E	139	NA	NA
Bat, bumblebee	Craseonycteris thonglongyai	Thailand	do	E	139	NA	NA
Bat, gray	Myotis grisescens	Central and southeastern U.S.A.	do	E	13	NA	NA
Bat, Hawaiian hoary	Lasiurus cinereus semotus	U.S.A. (HI)	do	E	2	NA	NA
Bat, Indiana	Myotis sodalis	Eastern and Midwestern U.S.A.	do	E	1	17.95(a)	NA
Bat, lesser long-nosed	Leptonycteris curasoae	U.S.A. (AZ, NM),	do	E	336	NA	NA

	yerbabuenae.	Mexico, Central America.					
Bat, little Mariana fruit.....	Pteropus tokudae.....	Western Pacific Ocean_U.S.A. (Guam).	.....do.....	E	156	NA	NA
Bat, Mariana fruit (=Mariana flying fox).	Pteropus mariannus mariannus.	Western Pacific Ocean_U.S.A. (GU, MP).	Guam.....	E	156	NA	NA
Bat, Mexican long-nosed.....	Leptonycteris nivalis..	U.S.A. (NM, TX), Mexico, Central America.	Entire.....	E	336	NA	NA
Bat, Ozark big-eared.....	Corynorhinus (=Plecotus) townsendii ingens.	U.S.A. (MO, OK, AR)....	.....do.....	E	85	NA	NA
Bat, Rodrigues fruit (flying fox)...	Pteropus rodricensis...	Indian Ocean_Rodrigues Island.	.....do.....	E	139	NA	NA
Bat, Singapore roundleaf horseshoe..	Hipposideros ridleyi...	Malaysia.....	.....do.....	E	139	NA	NA
Bat, Virginia big-eared.....	Corynorhinus (=Plecotus) townsendii virginianus.	U.S.A. (KY, NC, WV, VA)	.....do.....	E	85	17.95(a)	NA
Bear, American black.....	Ursus americanus.....	North America.....	U.S.A. (LA, all counties; MS, TX, only within the historic county range of the Louisiana black bear).	T(S/A)	456	NA	17.40(i)
Bear, Baluchistan.....	Ursus thibetanus gedrosianus.	Iran, Pakistan.....	Entire.....	E	233	NA	NA
Bear, brown.....	Ursus arctos arctos....	Palearctic.....	Italy.....	E	15, 15A	NA	NA
Do.....	Ursus arctos pruinosus.	China (Tibet).....	Entire.....	E	15	NA	NA
Bear, grizzly.....	Ursus arctos.....	Holarctic.....	U.S.A., conterminous (lower 48) States, except where listed as an experimental population.	T	1,2D,9	NA	17.40(b)
Do.....	.....do.....	.....do.....	U.S.A. (portions of ID and MT, see 17.84(l)).	XN	706	NA	17.84(l)
Bear, Louisiana black.....	Ursus americanus luteolus.	U.S.A. (LA_all counties; MS_all counties south of or touching a line from Greenville, Washington County, to Meridian, Lauderdale County; TX_all counties east of or touching a line from Linden, Cass County, SW to Bryan, Brazos County, thence SSW to Rockport, Aransas County).	Entire.....	T	456	NA	17.40(i)
Bear, Mexican grizzly.....	Ursus arctos.....	Holarctic.....	Mexico.....	E	3	NA	NA
Beaver.....	Castor fiber birulai...	Mongolia.....	Entire.....	E	15	NA	NA
Bison, wood.....	Bison bison athabascae.	Canada, northwestern U.S.A.	Canada.....	E	3	NA	NA
Bobcat, Mexican.....	Lynx (=Felis) rufus escuinapae.	Central Mexico.....	Entire.....	E	15	NA	NA
Bontebok (antelope).....	Damaliscus pygarus (=dorcas) dorcas.	South Africa.....	.....do.....	E	15	NA	NA
Camel, Bactrian.....	Camelus bactrianus.....	Mongolia, China.....	.....do.....	E	15	NA	NA
Caribou, woodland.....	Rangifer tarandus caribou.	U.S.A. (AK, ID, ME, MI, MN, MT, NH, VT, WA, WI), Canada.	U.S.A. (ID, WA), Canada (that part of S.E. British Columbia bounded by the U.S._Can. border, Columbia R., Kootenay R., Kootenay L., and Kootenai R.).	E	128E, 136, 143	NA	NA
Cat, Andean.....	Felis jacobita.....	Chile, Peru, Bolivia, Argentina.	Entire.....	E	15	NA	NA
Cat, Asian golden (=Temminck's).....	Catopuma (=Felis) temminckii.	Nepal, China, Southeast Asia, Indonesia (Sumatra).	.....do.....	E	15	NA	NA
Cat, black-footed.....	Felis nigripes.....	Southern Africa.....	.....do.....	E	15	NA	NA
Cat, flat-headed.....	Prionailurus (=Felis) planiceps.	Malaysia, Indonesia....	.....do.....	E	15	NA	NA
Cat, Iriomote.....	Prionailurus (=Felis) bengalensis iriomotensis.	Japan (Iriomote Island, Ryukyu Islands).	.....do.....	E	50	NA	NA
Cat, leopard.....	Prionailurus (=Felis) bengalensis bengalensis.	India, Southeast Asia..	.....do.....	E	15	NA	NA
Cat, marbled.....	Pardofelis (=Felis) marmorata.	Nepal, Southeast Asia, Indonesia.	.....do.....	E	15	NA	NA
Cat, Pakistan sand.....	Felis margarita scheffeli.	Pakistan.....	.....do.....	E	139	NA	NA
Cat, tiger.....	Leopardus (=Felis) tigrinus.	Costa Rica to northern Argentina.	.....do.....	E	5	NA	NA
Chamois, Apennine.....	Rupicapra rupicapra ornata.	Italy.....	.....do.....	E	15	NA	NA
Cheetah.....	Acinonyx jubatus.....	Africa to India.....	.....do.....	E	3, 5	NA	NA
Chimpanzee.....	Pan troglodytes.....	Africa_see 17.40(c)(3).	Wherever found in the wild.	E	16, 376	NA	NA
Do.....	.....do.....	.....do.....	Wherever found in captivity.	T	16, 376	NA	17.40(c)
Chimpanzee, pygmy.....	Pan paniscus.....	Zaire.....	Entire.....	E	16, 376	NA	NA
Chinchilla.....	Chinchilla brevicaudata boliviana.	Bolivia.....	.....do.....	E	15	NA	NA
Civet, Malabar large-spotted.....	Viverra civettina (=megaspila c.).	India.....	.....do.....	E	50	NA	NA
Cochito.....	Phocoena sinus.....	Mexico (Gulf of	.....do.....	E	169	NA	NA

		California).					
Deer, Bactrian	Cervus elaphus bactrianus.	Tajikistan, Uzbekistan, Afghanistan.	do	E	50	NA	NA
Deer, Barbary	Cervus elaphus barbarus	Morocco, Tunisia, Algeria.	do	E	50	NA	NA
Deer, Calamianes (=Philippine)	Axis porcinus calamianensis.	Philippines (Calamian Islands).	do	E	15	NA	NA
Deer, Cedros Island mule	Odocoileus hemionus cedrosensis.	Mexico (Cedros Island).	do	E	10	NA	NA
Deer, Columbian white-tailed	Odocoileus virginianus leucurus.	U.S.A. (WA, OR)	Columbia River (Clark, Cowlitz, Pacific, Skamania, and Wahkiakum Counties, WA, and Clatsop, Columbia, and Multnomah Counties, OR).	E	1,738	NA	NA
Deer, Corsican red	Cervus elaphus corsicanus.	Corsica, Sardinia	do	E	50	NA	NA
Deer, Eld's brow-antlered	Cervus eldi	India to Southeast Asia	do	E	3	NA	NA
Deer, Formosan sika	Cervus nippon taiouanus	Taiwan	do	E	50	NA	NA
Deer, Indochina hog	Axis (=Cervus) porcinus annamiticus.	Thailand, Indochina	do	E	15	NA	NA
Deer, key	Odocoileus virginianus clavium.	U.S.A. (FL)	do	E	1	NA	NA
Deer, Kuhl's (=Bawean)	Axis porcinus kuhli	Indonesia	do	E	3	NA	NA
Deer, marsh	Blastocerus dichotomus.	Argentina, Uruguay, Paraguay, Bolivia, Brazil.	do	E	3	NA	NA
Deer, McNeill's	Cervus elaphus macneilii.	China (Sinkiang, Tibet)	do	E	3	NA	NA
Deer, musk	Moschus spp. (all species).	Central and eastern Asia.	Afghanistan, Bhutan, Burma, China (Tibet, Yunnan), India, Nepal, Pakistan, Sikkim.	E	15	NA	NA
Deer, North China sika	Cervus nippon mandarinus.	China (Shantung and Chihli Provinces).	Entire	E	50	NA	NA
Deer, pampas	Ozotoceros bezoarticus.	Brazil, Argentina, Uruguay, Bolivia, Paraguay.	do	E	15	NA	NA
Deer, Persian fallow	Dama mesopotamica (=dama m.).	Iraq, Iran	do	E	3	NA	NA
Deer, Ryukyu sika	Cervus nippon keramae	Japan (Ryukyu Islands).	do	E	50	NA	NA
Deer, Shansi sika	Cervus nippon grassianus.	China (Shansi Province)	do	E	50	NA	NA
Deer, South China sika	Cervus nippon kopschi	Southern China	do	E	50	NA	NA
Deer, swamp	Cervus duvauceli	India, Nepal	do	E	3	NA	NA
Deer, Visayan	Cervus alfredi	Philippines	do	E	320	NA	NA
Deer, Yarkand	Cervus elaphus yarkandensis.	China (Sinkiang)	do	E	50	NA	NA
Dhole	Cuon alpinus	C.I.S., Korea, China, India, Southeast Asia.	do	E	3	NA	NA
Dibbler	Antechinus apicalis	Australia	do	E	4	NA	NA
Dog, African wild	Lycaon pictus	Sub-Saharan Africa	do	E	139	NA	NA
Dolphin, Chinese river	Lipotes vexillifer	China	do	E	350	NA	NA
Dolphin, Indus River	Platanista minor	Pakistan (Indus R. and tributaries).	do	E	417	NA	NA
Drill	Mandrillus (=Papio) leucophaeus.	Equatorial West Africa.	do	E	16	NA	NA
Dugong	Dugong dugon	East Africa to southern Japan, including Palau.	Entire	E	4,740	NA	NA
Duiker, Jentink's	Cephalophus jentinki	Sierra Leone, Liberia, Ivory Coast.	Entire	E	50	NA	NA
Eland, western giant	Taurotragus derbianus derbianus.	Senegal to Ivory Coast.	do	E	50	NA	NA
Elephant, African	Loxodonta africana	Africa	do	T	40	NA	17.40(e)
Elephant, Asian	Elephas maximus	South-central and southeastern Asia.	do	E	15	NA	NA
Ferret. black-footed	Mustela nigripes	Western U.S.A., Western Canada.	Entire, except where listed as an experimental population.	E	1, 3, 433, 545, 546, 582, 646, 703, 737	NA	NA
do	do	do	U.S.A. (specified portions of AZ, CO, MT, SD, UT, and WY, see 17.84(g)(9)).	XN	433, 545, 546, 582, 646, 703, 737	NA	17.84(g)
Fox, northern swift	Vulpes velox hebes	U.S.A. (northern plains), Canada.	Canada	E	3	NA	NA
Fox, San Joaquin kit	Vulpes macrotis mutica.	U.S.A. (CA)	Entire	E	1	NA	NA
Fox, San Miguel Island	Urocyon littoralis littoralis.	U.S.A. (CA)	U.S.A. (CA)	E	742	NA	NA
Fox, Santa Catalina Island	Urocyon littoralis catalinae.	do	do	E	742	NA	NA
Fox, Santa Cruz Island	Urocyon littoralis santacruzae.	do	do	E	742	NA	NA
Fox, Santa Rosa Island	Urocyon littoralis santarosae.	do	do	E	742	NA	NA
Fox, Simien	Canis simensis	Ethiopia	Entire	E	50	NA	NA
Gazelle, Arabian	Gazella gazella	Arabian Peninsula, Palestine, Sinai.	do	E	50	NA	NA
Gazelle, Clark's	Ammodorcas clarkei	Somalia, Ethiopia	do	E	3	NA	NA
Gazelle, Mhorr	Gazella dama mhorr	Morocco	do	E	3	NA	NA

Gazelle, Moroccan	Gazella dorcas massaesyla.	Morocco, Algeria, Tunisia.	do	E	3	NA	NA
Gazelle, mountain (=Cuvier's)	Gazella cuvieri	do	do	E	3	NA	NA
Gazelle, Pelzeln's	Gazella dorcas pelzelni	Somalia	do	E	50	NA	NA
Gazelle, Rio de Oro Dama	Gazella dama lozanoi	Western Sahara	do	E	3	NA	NA
Gazelle, sand	Gazella subgutturosa marica.	Jordan, Arabian Peninsula.	do	E	50	NA	NA
Gazelle, Saudi Arabian	Gazella dorcas saudiya.	Israel, Iraq, Jordan, Syria, Arabian Peninsula.	do	E	50	NA	NA
Gazelle, slender-horned	Gazella leptoceros	Sudan, Egypt, Algeria, Libya.	do	E	3	NA	NA
Gibbons	Hylobates spp. (including Nomascus).	China, India, Southeast Asia.	do	E	3, 15	NA	NA
Goral	Nemorhaedus goral	East Asia	do	E	15	NA	NA
Gorilla	Gorilla gorilla	Central and western Africa.	do	E	3	NA	NA
Hare, hispid	Caprolagus hispidus	India, Nepal, Bhutan	do	E	15	NA	NA
Hartebeest, Swayne's	Alcelaphus buselaphus swaynei.	Ethiopia, Somalia	do	E	3, 50	NA	NA
Hartebeest, Tora	Alcelaphus buselaphus tora.	Ethiopia, Sudan, Egypt.	do	E	50	NA	NA
Hog, pygmy	Sus salvanius	India, Nepal, Bhutan, Sikkim.	do	E	3	NA	NA
Horse, Przewalski's	Equus przewalskii	Mongolia, China	do	E	15	NA	NA
Huemul, north Andean	Hippocamelus antisensis	Ecuador, Peru, Chile, Bolivia, Argentina.	do	E	15	NA	NA
Huemul, south Andean	Hippocamelus bisulcus	Chile, Argentina	do	E	15	NA	NA
Hutia, Cabrera's	Capromys angelcabrerai.	Cuba	do	E	233	NA	NA
Hutia, dwarf	Capromys nana	do	do	E	233	NA	NA
Hutia, large-eared	Capromys auritus	do	do	E	233	NA	NA
Hutia, little earth	Capromys sanfelipensis.	do	do	E	233	NA	NA
Hyena, Barbary	Hyaena hyaena barbara	Morocco, Algeria, Tunisia.	do	E	3	NA	NA
Hyena, brown	Parahyaena (=Hyaena) brunnea.	Southern Africa	do	E	3	NA	NA
Ibex, Pyrenean	Capra pyrenaica pyrenaica.	Spain	do	E	3	NA	NA
Ibex, Walia	Capra walie	Ethiopia	do	E	3	NA	NA
Impala, black-faced	Aepyceros melampus petersi.	Namibia, Angola	do	E	3	NA	NA
Indri	Indri indri (=entire genus).	Malagasy Republic (=Madagascar).	do	E	3	NA	NA
Jaguar	Panthera onca	U.S.A. (AZ, CA, LA, NM, TX), Mexico, Central and South America.	do	E	5, 622	NA	NA
Jaguarundi, Guatemalan	Herpailurus (=Felis) yagouaroundi fossata.	Mexico, Nicaragua	do	E	15	NA	NA
Jaguarundi, Gulf Coast	Herpailurus (=Felis) yagouaroundi cacomitli.	U.S.A. (TX), Mexico	do	E	15	NA	NA
Jaguarundi, Panamanian	Herpailurus (=Felis) yagouaroundi panamensis.	Nicaragua, Costa Rica, Panama.	do	E	15	NA	NA
Jaguarundi, Sinaloan	Herpailurus (=Felis) yagouaroundi tolteca.	U.S.A. (AZ), Mexico	do	E	15	NA	NA
Kangaroo rat, Fresno	Dipodomys nitratoides exilis.	U.S.A. (CA)	do	E	170	17.95(a)	NA
Kangaroo rat, giant	Dipodomys ingens	do	do	E	251	NA	NA
Kangaroo rat, Morro Bay	Dipodomys heermanni morroensis.	do	do	E	2	17.95(a)	NA
Kangaroo rat, San Bernardino Merriam's	Dipodomys merriami parvus.	do	do	E	632E, 645	17.95(a)	NA
Kangaroo rat, Stephens'	Dipodomys stephensi (incl. D. cascus).	do	do	E	338	NA	NA
Kangaroo rat, Tipton	Dipodomys nitratoides nitratoides.	do	do	E	312	NA	NA
Kangaroo, Tasmanian forester	Macropus giganteus tasmaniensis.	Australia (Tasmania)	do	E	6	NA	NA
Koala	Phascolarctos cinereus.	Australia	Australia	T	698	NA	NA
Kouprey	Bos sauveli	Vietnam, Laos, Cambodia, Thailand.	Entire	E	3	NA	NA
Langur, capped	Trachypithecus (=Presbytis) pileatus.	India, Burma, Bangladesh.	do	E	15	NA	NA
Langur, Douc	Pygathrix nemaeus	Cambodia, Laos, Vietnam	do	E	3	NA	NA
Langur, Francois'	Trachypithecus (=Presbytis) francoisi.	China (Kwangsi), Indochina.	do	E	16	NA	NA
Langur, golden	Trachypithecus (=Presbytis) geei.	India (Assam), Bhutan	do	E	15	NA	NA
Langur, gray (=entellus)	Semnopithecus (=Presbytis) entellus.	China (Tibet), India, Pakistan, Kashmir, Sri Lanka, Sikkim, Bangladesh.	do	E	15	NA	NA
Langur, long-tailed	Presbytis potenziani	Indonesia	do	T	16	NA	17.40(c)
Langur, Pagi Island	Nasalis concolor	do	do	E	3	NA	NA
Langur, purple-faced	Presbytis senex	Sri Lanka	do	T	16	NA	17.40(c)
Lechwe, red	Kobus leche	Southern Africa	do	T	3, 15, 106	NA	NA
Lemurs	Lemuridae (incl. genera Lemur, Phaner, Hapalemur, Lepilemur, Microcebus, Allocebus, Cheirogaleus, Varecia).	Malagasy Republic (=Madagascar).	do	E	3, 15, 15A	NA	NA
Leopard	Panthera pardus	Africa, Asia	Wherever found, except where it is listed as Threatened as set forth below.	E	3, 5, 114	NA	NA
Do	do	do	In Africa, in the wild, south of, and	T	3, 5, 114	NA	17.40(f)

			including, the following countries: Gabon, Congo, Zaire, Uganda, Kenya.				
Leopard, clouded	Neofelis nebulosa	Southeastern and south-central Asia, Taiwan.	Entire	E	3, 15	NA	NA
Leopard, snow	Uncia (=Panthera) uncia	Central Asia	do	E	5	NA	NA
Linsang, spotted	Prionodon pardicolor	Nepal, Assam, Vietnam, Cambodia, Laos, Burma.	do	E	15	NA	NA
Lion, Asiatic	Panthera leo persica	Turkey to India	do	E	3	NA	NA
Loris, lesser slow	Nycticebus pygmaeus	Indochina	do	T	16	NA	17.40(c)
Lynx, Canada	Lynx canadensis	U.S.A. (AK, CO, ID, ME, MI, MN, MT, NH, NY, OR, PA, UT, VT, WA, WI, WY), Canada, circumboreal.	CO, ID, ME, MI, MN, MT, NH, NY, OR, UT, VT, WA, WI, WY.	T	692	NA	17.40(k)
Lynx, Spanish	Felis pardina	Spain, Portugal	Entire	E	3	NA	NA
Macaque, Formosan rock	Macaca cyclopis	Taiwan	do	T	16	NA	17.40(c)
Macaque, Japanese	Macaca fuscata	Japan (Shikoku, Kyushu and Honshu Islands).	do	T	16	NA	17.40(c)
Macaque, lion-tailed	Macaca silenus	India	do	E	3	NA	NA
Macaque, stump-tailed	Macaca arctoides	India (Assam) to southern China.	do	T	16	NA	17.40(c)
Macaque, Toque	Macaca sinica	Sri Lanka	do	T	16	NA	17.40(c)
Manatee, Amazonian	Trichechus inunguis	South America (Amazon R. basin).	do	E	3	NA	NA
Manatee, West African	Trichechus senegalensis	West Coast of Africa from Senegal R. to Cuanza R.	do	T	52	NA	NA
Manatee, West Indian	Trichechus manatus	U.S.A. (southeastern), Caribbean Sea, South America.	do	E	1, 3	17.95(a)	17.108(a)
Mandrill	Mandrillus (=Papio) sphinx.	Equatorial West Africa.	do	E	16	NA	NA
Mangabey, Tana River	Cercocebus galeritus galeritus.	Kenya	do	E	3	NA	NA
Mangabey, white-collared	Cercocebus torquatus	Senegal to Ghana; Nigeria to Gabon.	do	E	16	NA	NA
Margay	Leopardus (=Felis) wiedii.	U.S.A. (TX), Central and South America.	Mexico southward	E	5	NA	NA
Markhor, chiltan (=wild goat)	Capra falconeri (=aegagrus) chiltanensis.	Chiltan Range of west-central Pakistan.	Entire	E	15	NA	NA
Markhor, Kabul	Capra falconeri megaceros.	Afghanistan, Pakistan	do	E	15	NA	NA
Markhor, straight-horned	Capra falconeri jerdoni	do	do	E	15	NA	NA
Marmoset, buff-headed	Callithrix flaviceps	Brazil	do	E	139	NA	NA
Marmoset, cotton-top	Saguinus oedipus	Costa Rica to Colombia.	do	E	16	NA	NA
Marmoset, Goeldi's	Callimico goeldii	Brazil, Colombia, Ecuador, Peru, Bolivia.	do	E	3	NA	NA
Marmoset, white-eared (=buffy tufted-ear).	Callithrix aurita (=jacchus a.).	Brazil	do	E	233	NA	NA
Marmot, Vancouver Island	Marmota vancouverensis.	Canada (Vancouver Island).	do	E	139	NA	NA
Marsupial, eastern jerboa	Antechinomys laniger	Australia	do	E	4	NA	NA
Marsupial-mouse, large desert	Sminthopsis psammophila	do	do	E	4	NA	NA
Marsupial-mouse, long-tailed	Sminthopsis longicaudata.	do	do	E	4	NA	NA
Marten, Formosan yellow-throated	Martes flavigula chrysospila.	Taiwan	do	E	3	NA	NA
Monkey, black colobus	Colobus satanas	Equatorial Guinea, People's Republic of Congo, Cameroon, Gabon.	do	E	16	NA	NA
Monkey, black howler	Alouatta pigra	Mexico, Guatemala, Belize.	do	T	16	NA	17.40(c)
Monkey, Diana	Cercopithecus diana	Coastal West Africa	do	E	16	NA	NA
Monkey, Guizhou snub-nosed	Rhinopithecus brelichi.	China	do	E	400	NA	NA
Monkey, L'hoest's	Cercopithecus lhoesti	Upper eastern Congo R. Basin, Cameroon.	do	E	16	NA	NA
Monkey, mantled howler	Alouatta palliata	Mexico to South America	do	E	15	NA	NA
Monkey, Preuss' red colobus	Procolobus (=Colobus) preussi (=badius p.).	Cameroon	do	E	139	NA	NA
Monkey, proboscis	Nasalis larvatus	Borneo	do	E	15	NA	NA
Monkey, red-backed squirrel	Saimiri oerstedii	Costa Rica, Panama	do	E	3	NA	NA
Monkey, red-bellied	Cercopithecus erythrogaster.	Western Nigeria	do	E	16	NA	NA
Monkey, red-eared nose-spotted	Cercopithecus erythrotis.	Nigeria, Cameroon, Fernando Po.	do	E	16	NA	NA
Monkey, Sichuan snub-nosed	Rhinopithecus roxellana	China	do	E	400	NA	NA
Monkey, spider	Ateles geoffroyi frontatus.	Costa Rica, Nicaragua	do	E	3	NA	NA
Do	Ateles geoffroyl panamensis.	Costa Rica, Panama	do	E	3	NA	NA
Monkey, Tana River red colobus	Procolobus (=Colobus) rufomitratus (=badius r.).	Kenya	do	E	3	NA	NA
Monkey, Tonkin snub-nosed	Rhinopithecus avunculus	Vietnam	do	E	16, 400	NA	NA
Monkey, woolly spider	Brachyteles arachnoides	Brazil	do	E	3	NA	NA
Monkey, yellow-tailed woolly	Lagothrix flavicauda	Andes of northern Peru.	do	E	16	NA	NA
Monkey, Yunnan snub-nosed	Rhinopithecus bieti	China	do	E	400	NA	NA
Monkey, Zanzibar red colobus	Procolobus (=Colobus) pennantii (=kirki) kirki.	Tanzania	do	E	3	NA	NA
Mountain beaver, Point Arena	Aplodontia rufa nigra	U.S.A. (CA)	do	E	454	NA	NA
Mouse, Alabama beach	Peromyscus polionotus ammobates.	U.S.A. (AL)	do	E	183	17.95(a)	NA
Mouse, Anastasia Island beach	Peromyscus polionotus	U.S.A. (FL)	do	E	349	NA	NA

	phasma.						
Mouse, Australian native	Notomys aquilo	Australia	do	E	15	NA	NA
Do	Zyzomys pedunculatus	do	do	E	15	NA	NA
Mouse, Choctawhatchee beach	Peromyscus polionotus allophrys.	U.S.A. (FL)	do	E	183	17.95(a)	NA
Mouse, Field's	Pseudomys fieldi	Australia	do	E	4	NA	NA
Mouse, Gould's	Pseudomys gouldii	do	do	E	6	NA	NA
Mouse, Key Largo cotton	Peromyscus gossypinus allapaticola.	U.S.A. (FL)	do	E	131E, 160	NA	NA
Mouse, New Holland	Pseudomys novaehollandiae.	Australia	do	E	4	NA	NA
Mouse, Pacific pocket	Perognathus longimembris pacificus.	U.S.A. (CA)	do	E	526E, 554	NA	NA
Mouse, Perdido Key beach	Peromyscus polionotus trissyllepsis.	U.S.A. (AL, FL)	do	E	183	17.95(a)	NA
Mouse, Preble's meadow jumping	Zapus hudsonius preblei	U.S.A. (CO, WY)	do	T	636	17.95(a)	17.40(l)
Mouse, salt marsh harvest	Reithrodontomys raviventris.	U.S.A. (CA)	do	E	2	NA	NA
Mouse, Shark Bay	Pseudomys praeconis	Australia	do	E	4	NA	NA
Mouse, Shortridge's	Pseudomys shortridgei	do	do	E	4	NA	NA
Mouse, smoky	Pseudomys fumeus	do	do	E	4	NA	NA
Mouse, southeastern beach	Peromyscus polionotus niveiventris.	U.S.A. (FL)	do	T	349	NA	NA
Mouse, St. Andrew beach	Peromyscus polionotus peninsularis.	do	do	E	655	NA	NA
Mouse, western	Pseudomys occidentalis.	Australia	do	E	4	NA	NA
Muntjac, Fea's	Muntiacus feae	Northern Thailand, Burma.	do	E	50	NA	NA
Native-cat, eastern	Dasyurus viverrinus	Australia	do	E	6	NA	NA
Numbat	Myrmecobius fasciatus	do	do	E	4, 6	NA	NA
Ocelot	Leopardus (=Felis) pardalis.	U.S.A. (AZ, TX) to Central and South America.	do	E	5, 119	NA	NA
Orangutan	Pongo pygmaeus	Borneo, Sumatra	do	E	3	NA	NA
Oryx, Arabian	Oryx leucoryx	Arabian Peninsula	do	E	3	NA	NA
Otter, Cameroon clawless	Aonyx congicus (=congica) microdon.	Cameroon, Nigeria	do	E	3	NA	NA
Otter, giant	Pteronura brasiliensis.	South America	do	E	3	NA	NA
Otter, long-tailed	Lontra (=Lutra) longicaudis (incl. platensis).	do	do	E	3, 15	NA	NA
Otter, marine	Lontra (=Lutra) felina.	Peru south to Straits of Magellan.	do	E	15	NA	NA
Otter, southern river	Lontra (=Lutra) provocax.	Chile, Argentina	do	E	15	NA	NA
Otter, southern sea	Enhydra lutris nereis	West Coast, U.S.A. (CA, OR, WA) south to Mexico (Baja California).	Entire, except where listed below.	T	21, 284	NA	17.84(d)
Do	do	do	All areas subject to U.S. jurisdiction south of Pt. Conception, CA (34°26.9[min] N. Lat.) [Note_status governed by Pub. L. 99-625, 100 Stat. 3500.].	XN	284	NA	17.84(d)
Panda, giant	Ailuropoda melanoleuca.	China	Entire	E	139	NA	NA
Pangolin, Temnick's ground	Manis temmincki	Africa	do	E	15	NA	NA
Panther, Florida	Puma (=Felis) concolor coryi.	U.S.A. (LA and AR east to SC and FL).	do	E	1	NA	NA
Planigale, little	Planigale ingrami subtilissima.	Australia	do	E	4	NA	NA
Planigale, southern	Planigale tenuirostris.	do	do	E	4	NA	NA
Porcupine, thin-spined	Chaetomys subspinosus	Brazil	do	E	3	NA	NA
Possum, Leadbeater's	Gymnobelideus leadbeateri.	Australia	do	E	233	NA	NA
Possum, mountain pygmy	Burramys parvus	do	do	E	4	NA	NA
Possum, scaly-tailed	Wyulda squamicaudata	do	do	E	4	NA	NA
Prairie dog, Mexican	Cynomys mexicanus	Mexico	do	E	3	NA	NA
Prairie dog, Utah	Cynomys parvidens	U.S.A. (UT)	do	T	6, 149	NA	17.40(g)
Pronghorn, peninsular	Antilocapra americana peninsularis.	Mexico (Baja California).	do	E	10	NA	NA
Pronghorn, Sonoran	Antilocapra americana sonoriensis.	U.S.A. (AZ), Mexico	do	E	1, 3	NA	NA
Pudu	Pudu pudu	Southern South America.	do	E	15	NA	NA
Puma (=mountain lion)	Puma (=Felis) concolor (all subsp. except coryi).	Canada to South America	U.S.A. (FL)	T(S/A)	432	NA	17.40(h)
Puma, Costa Rican	Puma (=Felis) concolor costaricensis.	Nicaragua, Panama, Costa Rica.	Entire	E	15	NA	NA
Puma (=cougar), eastern	Puma (=Felis) concolor couguar.	Eastern North America	do	E	6	NA	NA
Quokka	Setonix brachyurus	Australia	do	E	6	NA	NA
Rabbit, Columbia Basin pygmy	Brachylagus idahoensis.	U.S.A. (western conterminous U.S.).	U.S.A. (WA_Douglas, Grant, Lincoln, Adams, Benton Counties).	E	.....	NA	NA
Rabbit, Lower Keys	Sylvilagus palustris hefneri.	U.S.A. (FL)	Entire	E	390	NA	NA
Rabbit, riparian brush	Sylvilagus bachmani riparius.	U.S.A. (CA)	do	E	687	NA	NA
Rabbit, Ryukyu	Pentalagus furnessi	Japan (Ryukyu Islands).	do	E	50	NA	NA
Rabbit, volcano	Romerolagus diazi	Mexico	do	E	3	NA	NA
Rat, false water	Xeromys myoides	Australia	do	E	4	NA	NA
Rat, stick-nest	Leporillus conditor	do	do	E	6	NA	NA
Rat-kangaroo, brush-tailed	Bettongia penicillata	do	do	E	4	NA	NA
Rat-kangaroo, desert (=plain)	Caloprymnus campestris.	do	do	E	4	NA	NA
Rat-kangaroo, Gaimard's	Bettongia gaimardi	do	do	E	6	NA	NA

Rat-kangaroo, Lesuer's	Bettongia lesueur	do	do	E	4	NA	NA
Rat-kangaroo, Queensland	Bettongia tropica	do	do	E	4	NA	NA
Rhinoceros, black	Diceros bicornis	Sub-Saharan Africa	do	E	97	NA	NA
Rhinoceros, great Indian	Rhinoceros unicornis	India, Nepal	do	E	4	NA	NA
Rhinoceros, Javan	Rhinoceros sondaicus	Indonesia, Indochina, Burma, Thailand, Sikkim, Bangladesh, Malaysia.	do	E	3	NA	NA
Rhinoceros, northern white	Ceratotherium simum cottoni.	Zaire, Sudan, Uganda, Central African Republic.	do	E	3	NA	NA
Rhinoceros, Sumatran	Dicerorhinus sumatrensis.	Bangladesh to Vietnam to Indonesia (Borneo).	do	E	3	NA	NA
Rice rat	Oryzomys palustris natator.	U.S.A. (FL)	Lower FL Keys (west of Seven Mile Bridge).	E	421	17.95(a)	NA
Saiga, Mongolian (antelope)	Saiga tatarica mongolica.	Mongolia	Entire	E	15	NA	NA
Saki, southern bearded	Chiropotes satanas satanas.	Brazil	do	E	233	NA	NA
Saki, white-nosed	Chiropotes albinasus	do	do	E	3	NA	NA
Sea-lion, Steller	Eumetopias jubatus	U.S.A. (AK, CA, OR, WA), Canada, Russia; North Pacific Ocean.	Entire, except the population segment west of 144° W. Long.	T	384E, 408, 614	226.202	223.102, 223.202
Do	do	do	Population segment west of 144° W. Long.	E	384E , 408, 614	226.202	NA
Seal, Caribbean monk	Monachus tropicalis	Caribbean Sea, Gulf of Mexico.	Entire	E	1, 2D, 45	NA	NA
Seal, Guadalupe fur	Arctocephalus townsendi	U.S.A. (Farallon Islands of CA) south to Mexico (Islas Revillagigedo).	do	T	1, 2D, 212	NA	223.201
Seal, Hawaiian monk	Monachus schauinslandi.	U.S.A. (HI)	do	E	18	226.201	NA
Seal, Mediterranean monk	Monachus monachus	Mediterranean, Northwest African Coast and Black Sea.	do	E	3	NA	NA
Seal, Saimaa	Phoca hispida saimensis	Finland (Lake Saimaa)	do	E	508	NA	NA
Seledang	Bos gaurus	Bangladesh, Southeast Asia, India.	do	E	3	NA	NA
Serow	Naemorhedus (=Capricornis) sumatraensis.	East Asia, Sumatra	do	E	15	NA	NA
Serval, Barbary	Leptailurus (=Felis) serval constantina.	Algeria	do	E	3	NA	NA
Shapo	Ovis vignei vignei	Kashmir	do	E	15	NA	NA
Sheep, bighorn	Ovis canadensis	U.S.A. (Western conterminous states), Canada (southwestern), Mexico (northern).	U.S.A. (CA) Peninsular Ranges.	E	634	17.95(a)	NA
Sheep, Sierra Nevada bighorn	Ovis canadensis californiana.	do	U.S.A. CA_ Sierra Nevada.	E	660E, 675	NA	NA
Shou	Cervus elaphus wallichi	Tibet, Bhutan	Entire	E	3	NA	NA
Shrew, Buena Vista Lake	Sorex ornatus relictus.	U.S.A. (CA)	do	E	.....	NA	NA
Siamang	Symphalangus syndactylus.	Malaysia, Indonesia	do	E	15	NA	NA
Sifakas	Propithecus spp	Malagasy Republic (=Madagascar).	do	E	4	NA	NA
Sloth, Brazilian three-toed	Bradypus torquatus	Brazil	do	E	3	NA	NA
Solenodon, Cuban	Solenodon cubanus	Cuba	do	E	3	NA	NA
Solenodon, Haitian	Solenodon paradoxus	Dominican Republic, Haiti.	do	E	3	NA	NA
Squirrel, Carolina northern flying	Glaucomys sabrinus coloratus.	U.S.A. (NC, TN)	do	E	189	NA	NA
Squirrel, Delmarva Peninsula fox	Sciurus niger cinereus.	U.S.A. (Delmarva Peninsula to southeastern PA).	Entire, except Sussex Co., DE.	E	1, 161, 168	NA	NA
Do	do	do	U.S.A. (DE_Sussex Co.).	XN	161	NA	17.84(a)
Squirrel, Mount Graham red	Tamiasciurus hudsonicus grahamensis.	U.S.A. (AZ)	Entire	E	268	17.95(a)	NA
Squirrel, northern Idaho ground	Spermophilus brunneus brunneus.	U.S.A. (ID)	do	T	693	NA	NA
Squirrel, Virginia northern flying	Glaucomys sabrinus fuscus.	U.S.A. (VA, WV)	do	E	189	NA	NA
Stag, Barbary	Cervus elaphus barbarus	Tunisia, Algeria	do	E	3	NA	NA
Stag, Kashmir	Cervus elaphus hanglu	Kashmir	do	E	3	NA	NA
Suni, Zanzibar	Neotragus moschatus moschatus.	Zanzibar (and nearby islands).	do	E	50	NA	NA
Tahr, Arabian	Hemitragus jayakari	Oman	do	E	50	NA	NA
Tamaraw	Bubalus mindorensis	Philippines	do	E	4	NA	NA
Tamarin, golden-rumped	Leontopithecus spp	Brazil	do	E	3	NA	NA
Tamarin, pied	Saguinus bicolor	do	do	E	16	NA	NA
Tamarin, white-footed	Saguinus leucopus	Colombia	do	T	16	NA	17.40(c)
Tapir, Asian	Tapirus indicus	Burma, Laos, Cambodia, Vietnam, Malaysia, Indonesia, Thailand.	do	E	15	NA	NA
Tapir, Central American	Tapirus bairdii	Southern Mexico to Colombia and Ecuador.	do	E	3	NA	NA
Tapir, mountain	Tapirus pinchaque	Colombia, Ecuador and possibly Peru and Venezuela.	do	E	3	NA	NA
Tapir, South American (=Brazilian)	Tapirus terrestris	Colombia and Venezuela south to Paraguay and Argentina.	do	E	3	NA	NA
Tarsier, Philippine	Tarsius syrichta	Philippines	do	T	16	NA	17.40(c)
Tiger	Panthera tigris	Temperate and tropical Asia.	do	E	3, 5	NA	NA
Tiger, Tasmanian	Thylacinus cynocephalus	Australia	do	E	3	NA	NA

Uakari (all species)	Cacajao spp	Peru, Brazil, Ecuador, Colombia, Venezuela.	do	E	3	NA	NA
Urial	Ovis musimon ophion	Cyprus	do	E	15	NA	NA
Vicuña	Vicugna vicugna	Argentina, Bolivia,	Entire, except Ecudator	T	3, 724	NA	17.40 (m)
Do	do	do	Ecuador	E	3, 724	NA	NA
Vole, Amargosa	Microtus californicus scirpensis.	U.S.A. (CA)	Entire	E	166	17.95(a)	NA
Vole, Florida salt marsh	Microtus pennsylvanicus dukecampbelli.	U.S.A. (FL)	do	E	415	NA	NA
Vole, Hualapai Mexican	Microtus mexicanus hualpaiensis.	U.S.A. (AZ)	do	E	292	NA	NA
Wallaby, banded hare	Lagostrophus fasciatus.	Australia	do	E	4	NA	NA
Wallaby, brindled nail-tailed	Onychogalea fraenata	do	do	E	4	NA	NA
Wallaby, crescent nail-tailed	Onychogalea lunata	do	do	E	4	NA	NA
Wallaby, Parma	Macropus parma	do	do	E	4	NA	NA
Wallaby, western hare	Lagorchestes hirsutus	do	do	E	4	NA	NA
Wallaby, yellow-footed rock	Petrogale xanthopus	do	do	E	6	NA	NA
Whale, blue	Balaenoptera musculus	Oceanic	do	E	3	NA	NA
Whale, bowhead	Balaena mysticetus	Oceanic (north latitudes only).	do	E	3	NA	NA
Whale, finback	Balaenoptera physalus	Oceanic	do	E	3	NA	NA
Whale, gray	Eschrichtius robustus	North Pacific Ocean_coastal and Bering Sea, formerly North Atlantic Ocean.	Entire, except eastern North Pacific Ocean_coastal and Bering, Beaufort, and Chukchi Seas.	E	3, 540	NA	NA
Whale, humpback	Megaptera novaeangliae.	Oceanic	Entire	E	3	NA	224.101, 224.103
Whale, North Atlantic right	Eubalaena glacialis	do	do	E	3	226.203	224.103
Whale, North Pacific right	Eubalaena japonica	do	do	E	3	NA	NA
Whale, Southern right	Eubalaena australis	do	do	E	3	NA	NA
Whale, Sei	Balaenoptera borealis	do	do	E	3	NA	NA
Whale, sperm	Physeter catodon (=macrocephalus).	do	do	E	3	NA	NA
Wolf, gray	Canis lupus	Holarctic	Southwestern Distinct Population Segment-U.S.A. (AZ, NM, CO south of Interstate Highway 70, UT south of U.S. Highway 50, OK and TX, except those parts of OK and TX east of Interstate Highway 35; except where listed as an experimental population); Mexico.	E	1, 6, 13, 15, 35, 631, 735	NA	NA
Do	do	do	Eastern Distinct Population Segment_U.S.A. (CT, IA, IL, IN, KS, MA, ME, MI, MN, MO, ND, NE, NH, NJ, NY, OH, PA, RI, SD, VT, and WI).	T	1, 6, 13, 15, 35,735	17.95(a)	17.40(d) 17.40(o)
Do	do	do	Western Distinct Population Segment_U.S.A. (CA, ID, MT, NV, OR, WA, WY, UT north of U.S. Highway 50, and CO north of Interstate Highway 70, except where listed as an experimental population).	T	1, 6, 13, 15, 35, 561, 562, 735	NA	17.40(n)
Do	do	do	U.S.A. (WY and portions of ID and MT_see 17.84(i)).	XN	561, 562	NA	17.84(i)
Do	do	do	U.S.A. (portions of AZ, NM, and TX _ see section 17.84(k)).	XN	631	NA	17.84(k)
Wolf, maned	Chrysocyon brachyurus	Argentina, Bolivia, Brazil, Paraguay, Uruguay.	Entire	E	4	NA	NA
Wolf, red	Canis rufus	U.S.A. (SE U.S.A., west to central TX).	Entire, except where listed as experimental populations below.	E	1, 248, 449, 579	NA	NA
Do	do	do	U.S.A. (portions of NC and TN_see 17.84(c)(9)).	XN	248, 449, 579	NA	17.84(c)
Wombat, Queensland hairy-nosed (incl. Barnard's).	Lasiorhinus krefftii (formerly L. barnardi and L. gillespiei).	Australia	Entire	E	4, 6	NA	NA
Woodrat, Key Largo	Neotoma floridana smalli.	U.S.A. (FL)	do	E	131E, 160	NA	NA
Woodrat, riparian (San Joaquin Valley).	Neotoma fuscipes riparia.	U.S.A. (CA)	do	E	687	NA	NA
Yak, wild	Bos mutus (=grunniens m.).	China (Tibet), India	do	E	3	NA	NA
Zebra, Grevy's	Equus grevyi	Kenya, Ethiopia, Somalia.	do	T	54	NA	NA
Zebra, Hartmann's mountain	Equus zebra hartmannae.	Namibia, Angola	do	T	54, 111	NA	NA
Zebra, mountain	Equus zebra zebra	South Africa	do	E	15, 111	NA	NA
Birds							
`Akepa, Hawaii (honeycreeper)	Loxops coccineus coccineus.	U.S.A. (HI)	do	E	2	NA	NA

`Akepa, Maui (honeycreeper).....	Loxops coccineus ochraceus.	.....do.....	.....do.....	E	2	NA	NA
`Akialoa, Kauai (honeycreeper).....	Hemignathus procerus...	.....do.....	.....do.....	E	1	NA	NA
`Akiapola`au (honeycreeper).....	Hemignathus munroi.....	.....do.....	.....do.....	E	1	NA	NA
Albatross, Amsterdam.....	Diomedea amsterdamensis	Indian Ocean_Amsterdam Island.	.....do.....	E	571	NA	NA
Albatross, short-tailed.....	Phoebastria (=Diomedea) albatrus.	North Pacific Ocean and Bering Sea_Canada, China, Japan, Mexico, Russia, Taiwan, U.S.A. (AK, CA, HI, OR, WA).	.....do.....	E	3, 700	NA	NA
Alethe, Thyolo.....	Alethe choloensis.....	Malawi, Mozambique.....	.....do.....	E	571	NA	NA
Blackbird, yellow-shouldered.....	Agelaius xanthomus.....	U.S.A. (PR).....	.....do.....	E	17	17.95(b)	NA
Bobwhite, masked (quail).....	Colinus virginianus ridgwayi.	U.S.A. (AZ), Mexico (Sonora).	.....do.....	E	1, 3	NA	NA
Booby, Abbott's.....	Papasula (=Sula) abbotti.	Indian Ocean_Christmas Island.	.....do.....	E	15	NA	NA
Bristlebird, western.....	Dasyornis longirostris (=brachypterus l.).	Australia.....	.....do.....	E	3	NA	NA
Bristlebird, western rufous.....	Dasyornis broadbenti littoralis.	.....do.....	.....do.....	E	15	NA	NA
Bulbul, Mauritius olivaceous.....	Hypsipetes borbonicus olivaceus.	Indian Ocean_Mauritius.	.....do.....	E	3	NA	NA
Bullfinch, Sao Miguel (finch).....	Pyrrhula pyrrhula murina.	Eastern Atlantic Ocean_Azores.	.....do.....	E	3	NA	NA
Bush-shrike, Ulugura.....	Malaconotus alius.....	Tanzania.....	.....do.....	T	571	NA	NA
Bushwren, New Zealand.....	Xenicus longipes.....	New Zealand.....	.....do.....	E	3	NA	NA
Bustard, great Indian.....	Ardeotis (=Choriotis) nigriceps.	India, Pakistan.....	.....do.....	E	3	NA	NA
Cahow.....	Pterodroma cahow.....	North Atlantic Ocean_Bermuda.	.....do.....	E	3	NA	NA
Caracara, Audubon's crested.....	Polyborus plancus audubonii.	U.S.A. (AZ, FL, LA, NM, TX) south to Panama; Cuba.	U.S.A. (FL).....	T	280	NA	NA
Condor, Andean.....	Vultur gryphus.....	Colombia to Chile and Argentina.	Entire.....	E	4	NA	NA
Condor, California.....	Gymnogyps californianus	U.S.A. (AZ, CA, OR), Mexico (Baja California).	U.S.A. only, except where listed as an experimental population below.	E	1, 597	17.95(b)	NA
Do.....	.....do.....	.....do.....	U.S.A. (specific portions of Arizona, Nevada, and Utah).	XN	597	NA	17.84(j)
Coot, Hawaiian.....	Fulica americana alai..	U.S.A. (HI).....	Entire.....	E	2	NA	NA
Cotinga, banded.....	Cotinga maculata.....	Brazil.....	.....do.....	E	15	NA	NA
Cotinga, white-winged.....	Xipholena atropurpurea.	.....do.....	.....do.....	E	15	NA	NA
Crane, black-necked.....	Grus nigricollis.....	China (Tibet).....	.....do.....	E	15	NA	NA
Crane, Cuba sandhill.....	Grus canadensis nesiotes.	West Indies_Cuba.....	.....do.....	E	15	NA	NA
Crane, hooded.....	Grus monacha.....	Japan, Russia.....	.....do.....	E	4	NA	NA
Crane, Japanese.....	Grus japonensis.....	China, Japan, Korea, Russia.	.....do.....	E	3	NA	NA
Crane, Mississippi sandhill.....	Grus canadensis pulla..	U.S.A. (MS).....	.....do.....	E	6	17.95(b)	NA
Crane, Siberian white.....	Grus leucogeranus.....	C.I.S. (Siberia) to India, including Iran and China.	.....do.....	E	4	NA	NA
Crane, white-naped.....	Grus vipio.....	Mongolia.....	.....do.....	E	15	NA	NA
Crane, whooping.....	Grus americana.....	Canada, U.S.A. (Rocky Mountains east to Carolinas), Mexico.	Entire, except where listed as an experimental population.	E	1, 3	17.95(b)	NA
Do.....	.....do.....	.....do.....	U.S.A. (AL, AR, CO, FL, GA, ID, IL, IN, IA, KY, LA, MI, MN, MS, MO, NC, NM, OH, SC, TN, UT, VA, WI, WV, WY).	XN	487, 621, 710	NA	17.84(h)
Creeper, Hawaii.....	Oreomystis mana.....	U.S.A. (HI).....	Entire.....	E	10	NA	NA
Creeper, Molokai.....	Paroreomyza flammea....	.....do.....	.....do.....	E	2	NA	NA
Creeper, Oahu.....	Paroreomyza maculata...	.....do.....	.....do.....	E	2	NA	NA
Crow, Hawaiian.....	Corvus hawaiiensis.....	.....do.....	.....do.....	E	1	NA	NA
Crow, Mariana.....	Corvus kubaryi.....	Western Pacific Ocean_U.S.A. (Guam, Rota).	.....do.....	E	156	NA	NA
Crow, white-necked.....	Corvus leucognaphalus..	U.S.A. (PR), Dominican Republic, Haiti.	.....do.....	E	419	NA	NA
Cuckoo-shrike, Mauritius.....	Coquus typicus.....	Indian Ocean_Mauritius.	.....do.....	E	3	NA	NA
Cuckoo-shrike, Reunion.....	Coquus newtoni.....	Indian Ocean_Reunion...	.....do.....	E	3	NA	NA
Curassow, razor-billed.....	Mitu mitu mitu.....	Brazil (Eastern).....	.....do.....	E	15	NA	NA
Curassow, red-billed.....	Crax blumenbachii.....	Brazil.....	.....do.....	E	4	NA	NA
Curassow, Trinidad white-headed.....	Pipile pipile pipile...	West Indies_Trinidad...	.....do.....	E	3	NA	NA
Curlew, Eskimo.....	Numenius borealis.....	Alaska and northern Canada to Argentina.	.....do.....	E	1, 3	NA	NA
Dove, cloven-feathered.....	Drepanoptila holosericea.	Southwest Pacific Ocean_New Caledonia.	.....do.....	E	3	NA	NA
Dove, Grenada gray-fronted.....	Leptotila rufaxilla wellsi.	West Indies_Grenada....	.....do.....	E	3	NA	NA
Duck, Hawaiian.....	Anas wyvilliana.....	U.S.A. (HI).....	.....do.....	E	1	NA	NA
Duck, Laysan.....	Anas laysanensis.....	.....do.....	.....do.....	E	1	NA	NA
Duck, pink-headed.....	Rhodonessa caryophyllacea.	India.....	.....do.....	E	15	NA	NA
Duck, white-winged wood.....	Cairina scutulata.....	India, Malaysia, Indonesia, Thailand.	.....do.....	E	3	NA	NA
Eagle, bald.....	Haliaeetus leucocephalus.	North America south to northern Mexico.	U.S.A., conterminous (lower 48) States..	T	1, 34, 580	NA	17.41(a)
Eagle, Greenland white-tailed.....	Haliaeetus albicilla groenlandicus.	Greenland and adjacent Atlantic islands.	Entire.....	E	15	NA	NA

Eagle, harpy	Harpia harpyja	Mexico south to Argentina.	do	E	15	NA	NA
Eagle, Madagascar sea	Haliaeetus vociferoides	Madagascar	do	E	571	NA	NA
Eagle, Madagascar serpent	Eutriorchis astur	do	do	E	571	NA	NA
Eagle, Philippine	Pithecophaga jefferyi	Philippines	do	E	3	NA	NA
Eagle, Spanish imperial	Aquila heliaca adalberti.	Spain, Morocco, Algeria	do	E	3	NA	NA
Egret, Chinese	Egretta eulophotes	China, Korea	do	E	3	NA	NA
Eider, spectacled	Somateria fischeri	U.S.A. (AK), Russia	do	T	503	17.95(b)	NA
Eider, Steller's	Polysticta stelleri	USA (AK); Russia	U.S.A. (AK breeding population only).	T	616	17.95(b)	NA
Elepaio, Oahu	Chasiempis sandwichensis ibidis (Chasiempis sandwichensis gayi).	U.S.A. (HI)	Entire	E	696	17.95(b)	NA
Falcon, Eurasian peregrine	Falco peregrinus peregrinus.	Europe, Eurasia south to Africa and Mideast.	do	E	15	NA	NA
Falcon, northern aplomado	Falco femoralis septentrionalis.	U.S.A. (AZ, NM, TX), Mexico, Guatemala.	do	E	216	NA	NA
Finch, Laysan (honeycreeper)	Telespyza cantans	U.S.A. (HI)	do	E	1	NA	NA
Finch, Nihoa (honeycreeper)	Telespyza ultima	do	do	E	1	NA	NA
Flycatcher, Euler's	Empidonax euleri johnstonei.	West Indies_Grenada	do	E	3	NA	NA
Flycatcher, Seychelles paradise	Terpsiphone corvina	Indian Ocean_Seychelles	do	E	3	NA	NA
Flycatcher, southwestern willow	Empidonax traillii extimus.	U.S.A. (AZ, CA, CO, NM, TX, UT), Mexico.	do	E	577	17.95(b)	NA
Flycatcher, Tahiti	Pomarea nigra	South Pacific Ocean_Tahiti.	do	E	3	NA	NA
Fody, Mauritius	Foudia rubra	Indian Ocean_Mauritius.	do	E	571	NA	NA
Fody, Rodrigues	Foudia flavicans	Indian Ocean_Rodrigues Island (Mauritius).	do	E	571	NA	NA
Fody, Seychelles (weaver-finch)	Foudia sechellarum	Indian Ocean_Seychelles	do	E	3	NA	NA
Francolin, Djibouti	Francolinus ochropectus	Djibouti	do	E	571	NA	NA
Frigatebird, Andrew's	Fregata andrewsi	East Indian Ocean	do	E	15	NA	NA
Gnatcatcher, coastal California	Polioptila californica californica.	U.S.A. (CA), Mexico	do	T	496	17.95(b)	17.41 (b)
Goose, Hawaiian	Branta (=Nesochen) sandvicensis.	U.S.A. (HI)	do	E	1	NA	NA
Goshawk, Christmas Island	Accipiter fasciatus natalis.	Indian Ocean_Christmas Island.	do	E	3	NA	NA
Grackle, slender-billed	Quisicalus palustris	Mexico	do	E	3	NA	NA
Grasswren, Eyrean (flycatcher)	Amytornis goyderi	Australia	do	E	3	NA	NA
Grebe, Alaotra	Tachybaptus rufoflavatus.	Madagascar	do	E	571	NA	NA
Grebe, Atitlan	Podilymbus gigas	Guatemala	do	E	3	NA	NA
Greenshank, Nordmann's	Tringa guttifer	Russia, Japan, south to Malaya, Borneo.	do	E	15	NA	NA
Guan, horned	Oreophasis derbianus	Guatemala, Mexico	do	E	3	NA	NA
Guan, white-winged	Penelope albipennis	Peru	do	E	401	NA	NA
Guineafowl, white-breasted	Agelastes meleagrides	West Africa	do	T	571	NA	NA
Gull, Audouin's	Larus audouinii	Mediterranean Sea	do	E	3	NA	NA
Gull, relict	Larus relictus	India, China	do	E	15	NA	NA
Hawk, Galapagos	Buteo galapagoensis	Ecuador (Galapagos Islands).	do	E	3	NA	NA
Hawk, Hawaiian	Buteo solitarius	U.S.A. (HI)	do	E	1	NA	NA
Hawk, Puerto Rican broad-winged	Buteo platypterus brunnescens.	U.S.A. (PR)	do	E	550	NA	NA
Hawk, Puerto Rican sharp-shinned	Accipiter striatus venator.	do	do	E	550	NA	NA
Hermit, hook-billed (hummingbird)	Ramphodon (=Glaucis) dohrnii.	Brazil	do	E	15	NA	NA
Honeycreeper, crested	Palmeria dolei	U.S.A. (HI)	do	E	1	NA	NA
Honeyeater, helmeted	Lichenostomus melanops cassidix (=Meliphaga c.).	Australia	do	E	4	NA	NA
Hornbill, helmeted	Buceros (=Rhinoplax) vigil.	Thailand, Malaysia	do	E	15	NA	NA
Ibis, Japanese crested	Nipponia nippon	China, Japan, Russia, Korea.	do	E	3	NA	NA
Ibis, northern bald	Geronticus eremita	Southern Europe, southwestern Asia, northern Africa.	do	E	401	NA	NA
Kagu	Rhynochetos jubatus	South Pacific Ocean_New Caledonia.	do	E	3	NA	NA
Kakapo	Strigops habroptilus	New Zealand	do	E	3	NA	NA
Kestrel, Mauritius	Falco punctatus	Indian Ocean_Mauritius.	do	E	3	NA	NA
Kestrel, Seychelles	Falco araea	Indian Ocean_Seychelles Islands.	do	E	3	NA	NA
Kingfisher, Guam Micronesian	Halcyon cinnamomina cinnamomina.	West Pacific Ocean_U.S.A. (Guam).	do	E	156	NA	NA
Kite, Cuba hook-billed	Chondrohierax uncinatus wilsonii.	West Indies_Cuba	do	E	3	NA	NA
Kite, Everglade snail	Rostrhamus sociabilis plumbeus.	U.S.A. (FL), Cuba	U.S.A. (FL)	E	1	17.95(b)	NA
Kite, Grenada hook-billed	Chondrohierax uncinatus mirus.	West Indies_Grenada	Entire	E	3	NA	NA
Kokako (wattlebird)	Callaeas cinerea	New Zealand	do	E	3	NA	NA
Lark, Raso	Alauda razae	Atlantic Ocean_Raso Island (Cape Verde).	do	E	571	NA	NA
Macaw, glaucous	Anodorhynchus glaucus	Paraguay, Uruguay, Brazil.	do	E	15	NA	NA
Macaw, indigo	Anodorhynchus leari	Brazil	do	E	15	NA	NA
Macaw, little blue	Cyanopsitta spixii	do	do	E	15	NA	NA
Magpie-robin, Seychelles (thrush)	Copsychus sechellarum	Indian Ocean_Seychelles Islands.	do	E	3	NA	NA
Malimbe, Ibadan	Malimbus ibadanensis	Nigeria	do	E	571	NA	NA
Malkoha, red-faced (cuckoo)	Phaenicophaeus pyrrhocephalus.	Sri Lanka (=Ceylon)	do	E	3	NA	NA

Megapode, Maleo	Macrocephalon maleo	Indonesia (Celebes)	do	E	3	NA	NA
Megapode, Micronesian (=La Perouse's).	Megapodius laperouse	West Pacific Ocean_Palau Islands, U.S.A. (Mariana Islands).	do	E	3	NA	NA
Millerbird, Nihoa (old world warbler).	Acrocephalus familiaris kingi.	U.S.A. (HI)	do	E	1	NA	NA
Monarch, Tinian (old world flycatcher).	Monarcha takatsukasae	West Pacific Ocean_U.S.A. (Mariana Islands).	do	T	3, 261	NA	NA
Moorhen, Hawaiian common	Gallinula chloropus sandvicensis.	U.S.A. (HI)	do	E	1	NA	NA
Moorhen, Mariana common	Gallinula chloropus guami.	West Pacific Ocean_U.S.A. (Guam, Tinian, Saipan, Pagan).	do	E	156	NA	NA
Murrelet, marbled	Brachyramphus marmoratus marmoratus.	U.S.A. (AK, CA, OR, WA), Canada (B.C.).	U.S.A. (CA, OR, WA)	T	479	17.95(b)	NA
Nightjar, Puerto Rican	Caprimulgus noctitherus	U.S.A. (PR)	Entire	E	6	NA	NA
Nukupu`u (honeycreeper)	Hemignathus lucidus	U.S.A. (HI)	do	E	1, 2	NA	NA
Nuthatch, Algerian	Sitta ledanti	Algeria	do	E	571	NA	NA
`O`o, Kauai (honeyeater)	Moho braccatus	U.S.A. (HI)	do	E	1	NA	NA
Ostrich, Arabian	Struthio camelus syriacus.	Jordan, Saudi Arabia	do	E	3	NA	NA
Ostrich, West African	Struthio camelus spatzi	Spanish Sahara	do	E	3	NA	NA
`O`u (honeycreeper)	Psittirostra psittacea.	U.S.A. (HI)	do	E	1	NA	NA
Owl, Anjouan scops	Otus rutilus capnodes	Indian Ocean_Comoro Island.	do	E	3	NA	NA
Owl, giant scops	Mimizuku (=Otus) gurneyi.	Philippines_Marinduque and Mindanao Island.	do	E	15	NA	NA
Owl, Madagascar red	Tyto soumagnei	Madagascar	do	E	401	NA	NA
Owl, Mexican spotted	Strix occidentalis lucida.	U.S.A. (AZ, CO, NM, TX, UT), Mexico.	do	T	494	17.95(b)	NA
Owl, northern spotted	Strix occidentalis caurina.	U.S.A. (CA, OR, WA), Canada (B.C.).	do	T	393	17.95(b)	NA
Owl, Seychelles scops	Otus magicus (=insularis) insularis.	Indian Ocean_Seychelles Islands.	do	E	3	NA	NA
Owlet, Morden's	Otus ireneae	Kenya	do	E	3	NA	NA
Oystercatcher, Canarian black	Haematopus meadewaldoi.	Atlantic Ocean_Canary Islands.	do	E	571	NA	NA
Palila (honeycreeper)	Loxioides bailleui	U.S.A. (HI)	do	E	1	17.95(b)	NA
Parakeet, blue-throated (=ochre-marked).	Pyrrhura cruentata	Brazil	do	E	3	NA	NA
Parakeet, Forbes'	Cyanoramphus auriceps forbesi.	New Zealand	do	E	3	NA	NA
Parakeet, golden	Aratinga guarouba	Brazil	do	E	15	NA	NA
Parakeet, golden-shouldered	Psephotus chrysopterygius.	Australia	do	E	3	NA	NA
Parakeet, Mauritius	Psittacula echo	Indian Ocean_Mauritius.	do	E	3	NA	NA
Parakeet, Norfolk Island	Cyanoramphus cookii (=novaezelandiae c.).	Australia (Norfolk Island).	do	E	401	NA	NA
Parakeet, orange-bellied	Neophema chrysogaster	Australia	do	E	4	NA	NA
Parakeet, paradise	Psephotus pulcherrimus.	do	do	E	4	NA	NA
Parakeet, scarlet-chested	Neophema splendida	do	do	E	4	NA	NA
Parakeet, turquoise	Neophema pulchella	do	do	E	3	NA	NA
Parrot, Bahaman or Cuban	Amazona leucocephala	West Indies_Cuba, Bahamas, Caymans.	do	E	3, 15	NA	NA
Parrot, ground	Pezoporus wallicus	Australia	do	E	6	NA	NA
Parrot, imperial	Amazona imperialis	West Indies_Dominica	do	E	3	NA	NA
Parrot, night (=Australian)	Geopsittacus occidentalis.	Australia	do	E	3	NA	NA
Parrot, Puerto Rican	Amazona vittata	U.S.A. (PR)	do	E	1	NA	NA
Parrot, red-browed	Amazona rhodocorytha	Brazil	do	E	3	NA	NA
Parrot, red-capped	Pionopsitta pileata	do	do	E	15	NA	NA
Parrot, red-necked	Amazona arausiaca	West Indies_Dominica	do	E	50	NA	NA
Parrot, red-spectacled	Amazona pretrei pretrei	Brazil, Argentina	do	E	15	NA	NA
Parrot, red-tailed	Amazona brasiliensis	Brazil	do	E	401	NA	NA
Parrot, Seychelles lesser vasa	Coracopsis nigra barklyi.	Indian Ocean_Seychelles (Praslin Island).	do	E	571	NA	NA
Parrot, St. Vincent	Amazona guildingii	West Indies_St. Vincent	do	E	3	NA	NA
Parrot, St. Lucia	Amazona versicolor	West Indies_St. Lucia	do	E	3	NA	NA
Parrot, thick-billed	Rhynchopsitta pachyrhyncha.	Mexico, U.S.A. (AZ, NM)	Mexico	E	3	NA	NA
Parrot, vinaceous-breasted	Amazona vinacea	Brazil	Entire	E	15	NA	NA
Parrotbill, Maui (honeycreeper)	Pseudonestor xanthophrys.	U.S.A. (HI)	do	E	1	NA	NA
Pelican, brown	Pelecanus occidentalis.	U.S.A (Carolinas to TX, CA, OR, WA), West Indies, coastal Central and South America.	Entire, except U.S. Atlantic coast, FL, AL.	E	2, 3, 171	NA	NA
Penguin, Galapagos	Spheniscus mendiculus	Ecuador (Galapagos Islands).	Entire	E	3	NA	NA
Petrel, Hawaiian dark-rumped	Pterodroma phaeopygia sandwichensis.	U.S.A. (HI)	do	E	1	NA	NA
Petrel, Madeira	Pterodroma madeira	Atlantic Ocean_Madeira Island.	do	E	571	NA	NA
Petrel, Mascarene black	Pterodroma aterrima	Indian Ocean_Mauritius (Reunion Island).	do	E	571	NA	NA
Pheasant, bar-tailed	Syrmaticus humaie	Burma, China	do	E	3	NA	NA
Pheasant, Blyth's tragopan	Tragopan blythii	Burma, China, India	do	E	3	NA	NA
Pheasant, brown eared	Crossoptilon mantchuricum.	China	do	E	3	NA	NA
Pheasant, Cabot's tragopan	Tragopan caboti	do	do	E	3	NA	NA
Pheasant, cheer	Catreus wallichii	India, Nepal, Pakistan.	do	E	401	NA	NA
Pheasant, Chinese monal	Lophophorus lhuysii	China	do	E	3	NA	NA
Pheasant, Edward's	Lophura edwardsi	Vietnam	do	E	3	NA	NA
Pheasant, Elliot's	Syrmaticus ellioti	China	do	E	15	NA	NA

Pheasant, imperial.....	Lophura imperialis.....	Vietnam.....	.....do.....	E	3	NA	NA
Pheasant, Mikado.....	Syrmaticus mikado.....	Taiwan.....	.....do.....	E	3	NA	NA
Pheasant, Palawan peacock.....	Polyplectron emphanum..	Philippines.....	.....do.....	E	3	NA	NA
Pheasant, Sclater's monal.....	Lophophorus sclateri...	Burma, China, India....	.....do.....	E	3	NA	NA
Pheasant, Swinhoe's.....	Lophura swinhoii.....	Taiwan.....	.....do.....	E	3	NA	NA
Pheasant, western tragopan.....	Tragopan melanocephalus	India, Pakistan.....	.....do.....	E	3	NA	NA
Pheasant, white eared.....	Crossoptilon crossoptilon.	China (Tibet), India...	.....do.....	E	4	NA	NA
Pigeon, Azores wood.....	Columba palumbus azorica.	East Atlantic Ocean_Azores.	.....do.....	E	3	NA	NA
Pigeon, Chatham Island.....	Hemiphaga novaeseelandiae chathamensis.	New Zealand.....	.....do.....	E	3	NA	NA
Pigeon, Mindoro imperial (=zone-tailed).	Ducula mindorensis.....	Philippines.....	.....do.....	E	15	NA	NA
Pigeon, pink.....	Columba mayeri.....	Indian Ocean_Mauritius.	.....do.....	E	571	NA	NA
Pigeon, Puerto Rican plain.....	Columba inornata wetmorei.	U.S.A. (PR).....	.....do.....	E	2	NA	NA
Pigeon, white-tailed laurel.....	Columba junoniae.....	Atlantic Ocean_Canary Islands.	.....do.....	T	571	NA	NA
Piping-guan, black-fronted.....	Pipile jacutinga.....	Argentina.....	.....do.....	E	15	NA	NA
Pitta, Koch's.....	Pitta kochi.....	Philippines.....	.....do.....	E	15	NA	NA
Plover, New Zealand shore.....	Thinornis novaeseelandiae.	New Zealand.....	.....do.....	E	3	NA	NA
Plover, piping.....	Charadrius melodus.....	U.S.A. (Great Lakes, northern Great Plains, Atlantic and Gulf Coasts, PR, VI) Canada, Mexico, Bahamas, West Indies.	Great Lakes, watershed in States of IL, IN, MI, MN, NY, OH, PA, and WI and Canada (Ont.).	E	211	17.95(b)	NA
Plover, piping.....	Charadrius melodus.....	U.S.A. (Great Lakes, northern Great Plains, Atlantic and Gulf Coasts, PR, VI) Canada, Mexico, Bahamas, West Indies.	Northern Great Plains in States of MN, MT, ND, NE, and SD.	T	211	17.95(b)	NA
Do.....	.....do.....	.....do.....	Entire, except those areas where listed as endangered above.	T	211	NA	NA
Plover, western snowy.....	Charadrius alexandrinus nivosus.	U.S.A. (AZ, CA, CO, KS, NM, NV, OK, OR, TX, UT, WA), Mexico.	U.S.A. (CA, OR, WA), Mexico (within 50 miles of Pacific coast).	T	493	17.95(b)	NA
Pochard, Madagascar.....	Aythya innotata.....	Madagascar.....	Entire.....	E	571	NA	NA
Po`ouli (honeycreeper).....	Melamprosops phaeosoma.	U.S.A. (HI).....	.....do.....	E	10	NA	NA
Prairie-chicken, Attwater's greater.	Tympanuchus cupido attwateri.	U.S.A. (TX).....	.....do.....	E	1	NA	NA
Pygmy-owl, cactus ferruginous.....	Glaucidium brasilianum cactorum.	U.S.A. (AZ, TX), Mexico	U.S.A. (AZ).....	E	610	17.95(b)	NA
Quail, Merriam's Montezuma.....	Cyrtonyx montezumae merriami.	Mexico (Vera Cruz).....	Entire.....	E	15	NA	NA
Quetzel, resplendent.....	Pharomachrus mocinno...	Mexico to Panama.....	.....do.....	E	15	NA	NA
Rail, Aukland Island.....	Rallus pectoralis muelleri.	New Zealand.....	.....do.....	E	3	NA	NA
Rail, California clapper.....	Rallus longirostris obsoletus.	U.S.A. (CA).....	.....do.....	E	2	NA	NA
Rail, Guam.....	Rallus owstoni.....	Western Pacific Ocean_U.S.A. (Guam).	Entire, except Rota....	E	146E, 156, 371	NA	NA
Do.....	.....do.....	.....do.....	Rota.....	XN	371	NA	17.84(f)
Rail, light-footed clapper.....	Rallus longirostris levipes.	U.S.A. (CA), Mexico (Baja California).	U.S.A. only.....	E	2	NA	NA
Rail, Lord Howe wood.....	Gallirallus (=Tricholimnas) sylvestris.	Australia (Lord Howe Island).	Entire.....	E	15	NA	NA
Rail, Yuma clapper.....	Rallus longirostris yumanensis.	Mexico, U.S.A. (AZ, CA)	U.S.A. only.....	E	1	NA	NA
Rhea, lesser (incl. Darwin's).....	Rhea (=Pterocnemia) pennata.	Argentina, Bolivia, Peru, Uruguay.	Entire.....	E	3	NA	NA
Robin, Chatham Island.....	Petroica traversi.....	New Zealand.....	.....do.....	E	3	NA	NA
Robin, dappled mountain.....	Arcanator orostruthus..	Mozambique, Tanzania...	.....do.....	T	571	NA	NA
Robin, scarlet-breasted (flycatcher)	Petroica multicolor multicolor.	Australia (Norfolk Island).	.....do.....	E	3	NA	NA
Rockfowl, grey-necked.....	Picathartes oreas.....	Cameroon, Gabon.....	.....do.....	E	3	NA	NA
Rockfowl, white-necked.....	Picathartes gymnocephalus.	Africa_Togo to Sierra Leone.	.....do.....	E	3	NA	NA
Roller, long-tailed ground.....	Uratelornis chimaera...	Malagasy Republic (=Madagascar).	.....do.....	E	3	NA	NA
Scrub-bird, noisy.....	Atrichornis clamosus...	Australia.....	.....do.....	E	3	NA	NA
Scrub-jay, Florida.....	Aphelocoma coerulescens	U.S.A. (FL).....	.....do.....	T	267	NA	NA
Shama, Cebu black (thrush).....	Copsychus niger cebuensis.	Philippines.....	.....do.....	E	3	NA	NA
Shearwater, Newell's Townsend's.....	Puffinus auricularis newelli.	U.S.A. (HI).....	.....do.....	T	10	NA	NA
Shrike, San Clemente loggerhead.....	Lanius ludovicianus mearnsi.	U.S.A. (CA).....	.....do.....	E	26	NA	NA
Siskin, red.....	Carduelis cucullata....	South America.....	.....do.....	E	15	NA	NA
Sparrow, Cape Sable seaside.....	Ammodramus maritimus mirabilis.	U.S.A. (FL).....	.....do.....	E	1	17.95(b)	NA
Sparrow, Florida grasshopper.....	Ammodramus savannarum floridanus.	.....do.....	.....do.....	E	239	NA	NA
Sparrow, San Clemente sage.....	Amphispiza belli clementeae.	U.S.A. (CA).....	.....do.....	T	26	NA	NA
Sparrowhawk, Anjouan Island.....	Accipiter francesii pusillus.	Indian Ocean_Comoro Islands.	.....do.....	E	3	NA	NA
Starling, Ponape mountain.....	Aplonis pelzelni.....	West Pacific Ocean_Federated States of Micronesia.	.....do.....	E	3	NA	NA
Starling, Rothschild's (myna).....	Leucopsar rothschildi..	Indonesia (Bali).....	.....do.....	E	3	NA	NA

Stilt, Hawaiian.....	Himantopus mexicanus (=himantopus) knudseni.	U.S.A. (HI).....	.....do.....	E	2	NA	NA
Stork, oriental white.....	Ciconia boyciana (=ciconia b.).	China, Japan, Korea, Russia.	.....do.....	E	3	NA	NA
Stork, wood.....	Mycteria americana.....	U.S.A., (CA, AZ, TX, to Carolinas), Mexico, C. and S. America.	U.S.A. (AL, FL, GA, SC)	E	142	NA	NA
Sunbird, Marungu.....	Nectarinia prigoginei..	Zaire.....	Entire.....	E	571	NA	NA
Swiftlet, Mariana gray.....	Aerodramus vanikorensis bartschi.	Western Pacific Ocean_U.S.A. (Guam, Rota, Tinian, Saipan, Agiguan).	.....do.....	E	156	NA	NA
Teal, Campbell Island flightless....	Anas aucklandica nesiotis.	New Zealand (Campbell Island).	.....do.....	E	15	NA	NA
Tern, California least.....	Sterna antillarum browni.	Mexico, U.S.A. (CA)....	.....do.....	E	2, 3	NA	NA
Tern, least.....	Sterna antillarum.....	U.S.A. (Atlantic and Gulf coasts, Miss. R. Basin, CA), Greater and Lesser Antilles, Bahamas, Mexico; winters Central America, northern South America.	U.S.A. (AR, CO, IA, IL, IN, KS, KY, LA_Miss. R. and tribs. N of Baton Rouge, MS_Miss. R., MO, MT, ND, NE, NM, OK, SD, TN, TX_except within 50 miles of coast).	E	182	NA	NA
Tern, roseate.....	Sterna dougallii dougallii.	Tropical and temperate coasts of Atlantic Basin and East Africa.	U.S.A. (Atlantic Coast south to NC), Canada (Newf., N.S, Que.), Bermuda.	E	296	NA	NA
Do.....	.....do.....	.....do.....	Western Hemisphere and adjacent oceans, incl. U.S.A. (FL, PR, VI), where not listed as endangered.	T	296	NA	NA
Thrasher, white-breasted.....	Ramphocinclus brachyurus.	West Indies_St. Lucia, Martinique.	Entire.....	E	3	NA	NA
Thrush, large Kauai.....	Myadestes myadestinus..	U.S.A. (HI).....	.....do.....	E	2	NA	NA
Thrush, Molokai.....	Myadestes lanaiensis rutha.	.....do.....	.....do.....	E	2	NA	NA
Thrush, New Zealand (wattlebird)....	Turnagra capensis.....	New Zealand.....	.....do.....	E	3	NA	NA
Thrush, small Kauai.....	Myadestes palmeri.....	U.S.A. (HI).....	.....do.....	E	1	NA	NA
Thrush, Taita.....	Turdus olivaceous helleri.	Kenya.....	.....do.....	E	571	NA	NA
Tinamou, solitary.....	Tinamus solitarius.....	Brazil, Paraguay, Argentina.	.....do.....	E	15	NA	NA
Towhee, Inyo California.....	Pipilo crissalis eremophilus.	U.S.A. (CA).....	.....do.....	T	282	17.95(b)	NA
Trembler, Martinique (thrasher).....	Cinclocerthia ruficauda gutturalis.	West Indies_Martinique.	.....do.....	E	3	NA	NA
Turaco, Bannerman's.....	Tauraco bannermani.....	Cameroon.....	.....do.....	E	571	NA	NA
Turtle-dove, Seychelles.....	Streptopelia picturata rostrata.	Indian Ocean_Seychelles	.....do.....	E	571	NA	NA
Vanga, Pollen's.....	Xenopirostris polleni..	Madagascar.....	.....do.....	T	571	NA	NA
Vanga, Van Dam's.....	Xenopirostris damii....	.....do.....	.....do.....	T	571	NA	NA
Vireo, black-capped.....	Vireo atricapillus.....	U.S.A. (KS, LA, NE, OK, TX), Mexico..	.....do.....	E	294	NA	NA
Vireo, least Bell's.....	Vireo bellii pusillus..	U.S.A. (CA), Mexico....	.....do.....	E	228	17.95(b)	NA
Wanderer, plain (collared-hemipode).	Pedionomous torquatus..	Australia.....	.....do.....	E	6	NA	NA
Warbler, Aldabra (old world warbler)	Nesillas aldabranus....	Indian Ocean_ Seychelles (Aldabra Island).	.....do.....	E	571	NA	NA
Warbler (wood), Bachman's.....	Vermivora bachmanii....	U.S.A. (Southeastern), Cuba.	.....do.....	E	1, 3	NA	NA
Warbler (wood), Barbados yellow.....	Dendroica petechia petechia.	West Indies_Barbados...	.....do.....	E	3	NA	NA
Warbler (wood), golden-cheeked.....	Dendroica chrysoparia..	U.S.A. (TX), Mexico, Guatemala, Honduras, Nicaragua, Belize.	.....do.....	E	387E, 411	NA	NA
Warbler (wood), Kirtland's.....	Dendroica kirtlandii...	U.S.A. (principally MI), Canada, West Indies_Bahama Islands.	.....do.....	E	1, 3	NA	NA
Warbler, nightingale reed, (old world warbler).	Acrocephalus luscinia..	West Pacific Ocean_U.S.A. (Guam, Alamagan, Saipan).	.....do.....	E	3, 4	NA	NA
Warbler, Rodrigues (old world warbler).	Bebrornis rodericanus..	Mauritius (Rodrigues Islands).	.....do.....	E	3	NA	NA
Warbler (wood), Semper's.....	Leucopeza semperi.....	West Indies_St. Lucia..	.....do.....	E	3	NA	NA
Warbler, Seychelles (old world warbler).	Bebrornis sechellensis.	Indian Ocean_Seychelles Island.	.....do.....	E	3	NA	NA
Wattle-eye, banded.....	Platysteira laticincta.	Cameroon.....	.....do.....	E	571	NA	NA
Weaver, Clarke's.....	Ploceus golandi.....	Kenya.....	.....do.....	E	571	NA	NA
Whipbird, western.....	Psophodes nigrogularis.	Australia.....	.....do.....	E	3	NA	NA
White-eye, bridled.....	Zosterops conspicillatus conspicillatus.	Western Pacific Ocean_U.S.A. (Guam).	.....do.....	E	156	NA	NA
White-eye, Norfolk Island.....	Zosterops albogularis..	Indian Ocean_Norfolk Islands.	.....do.....	E	15	NA	NA
White-eye, Ponape greater.....	Rukia longirostra.....	West Pacific Ocean_Federated States of Micronesia.	.....do.....	E	3	NA	NA
White-eye, Rota bridled.....	Zosterops rotensis.....	Western Pacific Ocean-U.S.A. (Commonwealth of the Northern Mariana Islands).	.....do.....	E	741	NA	NA
White-eye, Seychelles.....	Zosterops modesta.....	Indian Ocean_Seychelles	.....do.....	E	3	NA	NA
Woodpecker, imperial.....	Campephilus imperialis.	Mexico.....	.....do.....	E	3	NA	NA
Woodpecker, ivory-billed.....	Campephilus principalis	U.S.A. (southcentral and southeastern),	.....do.....	E	1, 3	NA	NA

		Cuba.					
Woodpecker, red-cockaded	Picoides borealis	U.S.A. (southcentral and southeastern).	do	E	2	NA	NA
Woodpecker, Tristam's	Dryocopus javensis richardsi.	Korea	do	E	3	NA	NA
Wren, Guadeloupe house	Troglodytes aedon guadeloupensis.	West Indies_Guadeloupe.	do	E	3	NA	NA
Wren, St. Lucia house	Troglodytes aedon mesoleucus.	West Indies_St. Lucia	do	E	3	NA	NA
Reptiles							
Alligator, American	Alligator mississippiensis.	Southeastern U.S.A.	do	T(S/A)	1, 11, 20, 51, 60, 113, 134, 186, 269	NA	17.42(a)
Alligator, Chinese	Alligator sinensis	China	do	E	15	NA	NA
Anole, Culebra Island giant	Anolis roosevelti	U.S.A. (PR_Culebra Island).	do	E	25	17.95(c)	NA
Boa, Jamaican	Epicrates subflavus	Jamaica	do	E	3	NA	NA
Boa, Mona	Epicrates monensis monensis.	U.S.A. (PR)	do	T	33	17.95(c)	NA
Boa, Puerto Rican	Epicrates inornatus	do	do	E	2	NA	NA
Boa, Round Island [unnamed]	Bolyeria multocarinata.	Indian Ocean_Mauritius.	do	E	88	NA	NA
Do	Casarea dussumieri	do	do	E	88	NA	NA
Boa, Virgin Islands tree	Epicrates monensis granti.	U.S.A. (PR), British Virgin Islands.	do	E	2, 86	NA	NA
Caiman, Apaporis River	Caiman crocodilus apaporiensis.	Colombia	do	E	15	NA	NA
Caiman, black	Melanosuchus niger	Amazon basin	do	E	15	NA	NA
Caiman, broad-snouted	Caiman latirostris	Brazil, Argentina, Paraguay, Uruguay.	do	E	15	NA	NA
Caiman, brown	Caiman crocodilus fuscus (includes Caiman crocodilus chiapasius).	Mexico, Central America, Colombia, Ecuador, Venezuela, Peru.	do	T(S/A)	695	NA	17.42(g)
Caiman, common	Caiman crocodilus crocodilus.	Brazil, Colombia, Ecuador, French Guiana, Guyana, Suriname, Venezuela, Bolivia, Peru.	do	T(S/A)	695	NA	17.42(g)
Caiman, yacare	Caiman yacare	Argentina, Bolivia, Brazil, Paraguay.	do	T	3, 695	NA	17.42(g)
Chuckwalla, San Esteban Island	Sauromalus varius	Mexico	do	E	88	NA	NA
Crocodile, African dwarf	Osteolaemus tetraspis tetraspis.	West Africa	do	E	15, 15A	NA	NA
Crocodile, African slender-snouted	Crocodylus cataphractus	Western and central Africa.	do	E	5	NA	NA
Crocodile, American	Crocodylus acutus	U.S.A. (FL), Mexico, Caribbean, Central and South America.	do	E	10, 87	17.95(c)	NA
Crocodile, Ceylon mugger	Crocodylus palustris kimbula.	Sri Lanka	do	E	15	NA	NA
Crocodile, Congo dwarf	Osteolaemus tetraspis osborni.	Congo R. drainage	do	E	15	NA	NA
Crocodile, Cuban	Crocodylus rhombifer	Cuba	do	E	3	NA	NA
Crocodile, Morelet's	Crocodylus moreletii	Mexico, Belize, Guatemala.	do	E	3	NA	NA
Crocodile, mugger	Crocodylus palustris palustris.	India, Pakistan, Iran, Bangladesh.	do	E	15	NA	NA
Crocodile, Nile	Crocodylus niloticus	Africa, Middle East	do	T	3, 279, 334, 514, 585	NA	17.42(c)
Crocodile, Orinoco	Crocodylus intermedius.	South America_Orinoco R. basin.	do	E	3	NA	NA
Crocodile, Philippine	Crocodylus novaeguineae mindorensis.	Philippine Islands	do	E	15	NA	NA
Crocodile, saltwater	Crocodylus porosus	Southeast Asia, Australia, Papua New Guinea, Islands of the West Pacific Ocean.	Entire, except Papua New Guinea and Australia.	E	87, 585	NA	NA
Do	do	do	Australia	T	87, 585	NA	17.42(c)
Crocodile, Siamese	Crocodylus siamensis	Southeast Asia, Malay Peninsula.	Entire	E	15	NA	NA
Gavial	Gavialis gangeticus	Pakistan, Burma, Bangladesh, India, Nepal.	do	E	3	NA	NA
Gecko, day	Phelsuma edwardnewtoni.	Indian Ocean_Mauritius.	do	E	3	NA	NA
Gecko, Monito	Sphaerodactylus micropithecus.	U.S.A. (PR)	do	E	125	17.95(c)	NA
Gecko, Round Island day	Phelsuma guentheri	Indian Ocean_Mauritius.	do	E	3	NA	NA
Gecko, Serpent Island	Cyrtodactylus serpensinsula.	do	do	T	129	NA	NA
Iguana, Acklins ground	Cyclura rileyi nuchalis	West Indies_Bahamas	do	T	129	NA	NA
Iguana, Allen's Cay	Cyclura cychlura inornata.	do	do	T	129	NA	NA
Iguana, Andros Island ground	Cyclura cychlura cychlura.	do	do	T	129	NA	NA
Iguana, Anegada ground	Cyclura pinguis	West Indies_British Virgin Islands (Anegada Island).	do	E	3	NA	NA
Iguana, Barrington land	Conolophus pallidus	Ecuador (Galapagos Islands).	do	E	3	NA	NA
Iguana, Cayman Brac ground	Cyclura nubila caymanensis.	West Indies_Cayman Islands.	do	T	129	NA	NA
Iguana, Cuban ground	Cyclura nubila nubila	Cuba	do	T	129	NA	NA
Iguana, Exuma Island	Cyclura cychlura figginsi.	West Indies_Bahamas	do	T	129	NA	NA
Iguana, Fiji banded	Brachylophus fasciatus.	Pacific_Fiji, Tonga	do	E	88	NA	NA

Iguana, Fiji crested	Brachylophus vitiensis.	Pacific_Fiji	do	E	88	NA	NA
Iguana, Grand Cayman ground	Cyclura nubila lewisi	West Indies_Cayman Islands.	do	E	129	NA	NA
Iguana, Jamaican	Cyclura collei	West Indies_Jamaica	do	E	129	NA	NA
Iguana, Mayaguana	Cyclura carinata bartschi.	West Indies_Bahamas	do	T	129	NA	NA
Iguana, Mona ground	Cyclura stejnegeri	U.S.A. (PR_Mona Island)	do	T	33	17.95(c)	NA
Iguana, Turks and Caicos	Cyclura carinata carinata.	West Indies_Turks and Caicos Islands.	do	T	129	NA	NA
Iguana, Watling Island ground	Cyclura rileyi rileyi	West Indies_Bahamas	do	E	129	NA	NA
Iguana, White Cay ground	Cyclura rileyi cristata	do	do	T	129	NA	NA
Lizard, blunt-nosed leopard	Gambelia silus	U.S.A. (CA)	do	E	1	NA	NA
Lizard, Coachella Valley fringe-toed	Uma inornata	do	do	T	105	17.95(c)	NA
Lizard, Hierro giant	Gallotia simonyi simonyi.	Spain (Canary Islands).	do	E	144	NA	NA
Lizard, Ibiza wall	Podarcis pityusensis	Spain (Balearic Islands).	do	T	144	NA	NA
Lizard, Island night	Xantusia riversiana	U.S.A. (CA)	do	T	26	NA	NA
Lizard, Maria Island ground	Cnemidophorus vanzoi	West Indies_St. Lucia (Maria Islands).	do	E	443	NA	NA
Lizard, St. Croix ground	Ameiva polops	U.S.A. (VI)	do	E	24	17.95(c)	NA
Monitor, desert	Varanus griseus	North Africa to Aral Sea, through Central Asia to Pakistan, Northwest India.	do	E	15	NA	NA
Monitor, Indian (=Bengal)	Varanus bengalensis	Iran, Iraq, India, Sri Lanka, Malaysia, Afghanistan, Burma, Vietnam, Thailand.	do	E	15	NA	NA
Monitor, Komodo Island	Varanus komodoensis	Indonesia (Komodo, Rintja, Padar, and western Flores Island).	do	E	15	NA	NA
Monitor, yellow	Varanus flavescens	West Pakistan through India to Bangladesh.	do	E	15	NA	NA
Python, Indian	Python molurus molurus.	Sri Lanka and India	do	E	15	NA	NA
Rattlesnake, Aruba Island	Crotalus unicolor	Aruba Island (Netherland Antilles).	do	T	129	NA	NA
Rattlesnake, New Mexican ridge-nosed	Crotalus willardi obscurus.	U.S.A. (AZ, NM), Mexico	do	T	43	17.95(c)	NA
Sea turtle, green	Chelonia mydas	Circumglobal in tropical and temperate seas and oceans.	Breeding colony populations in FL and on Pacific coast of Mexico.	E	42	NA	224.104
Do	do	do	Wherever found except where listed as endangered.	T	42	226.208	17.42(b), 223.205, 223.206, 223.207
Sea turtle, hawksbill	Eretmochelys imbricata.	Tropical seas	Entire	E	3	17.95(c), 226.209	224.104
Sea turtle, Kemp's ridley	Lepidochelys kempii	Tropical and temperate seas in Atlantic Basin, incl. Gulf of Mexico.	do	E	4	NA	224.104
Sea turtle, leatherback	Dermochelys coriacea	Tropical, temperate, and subpolar seas.	do	E	3	17.95(c), 226.207	224.104
Sea turtle, loggerhead	Caretta caretta	Circumglobal in tropical and temperate seas and oceans.	do	T	42	NA	17.42(b), 223.205, 223.206, 223.207
Sea turtle, olive ridley	Lepidochelys olivacea	Circumglobal in tropical and temperate seas.	Wherever found except where listed as endangered below.	T	42	NA	17.42(b), 223.205, 223.206, 223.207
Do	do	do	Breeding colony populations on Pacific coast of Mexico.	E	42	NA	224.104
Skink, bluetail mole	Eumeces egregius lividus.	U.S.A. (FL)	Entire	T	299	NA	17.42(d)
Skink, Round Island	Leiolopisma telfairi	Indian Ocean_Mauritius.	do	T	129	NA	NA
Skink, sand	Neoseps reynoldsi	U.S.A. (FL)	do	T	299	NA	17.42(d)
Snake, Atlantic salt marsh	Nerodia clarkii taeniata.	do	do	T	30	NA	NA
Snake, Concho water	Nerodia paucimaculata	U.S.A. (TX)	do	T	241	17.95(c)	NA
Snake, copperbelly water	Nerodia erythrogaster neglecta.	U.S.A. (IL, IN, KY, MI, OH).	IN north of 40° N. Lat., MI, OH.	T	607	NA	NA
Snake, eastern indigo	Drymarchon corais couperi.	U.S.A. (AL, FL, GA, MS, SC).	Entire	T	32	NA	NA
Snake, giant garter	Thamnophis gigas	U.S.A. (CA)	do	T	522	NA	NA
Snake, Lake Erie water	Nerodia sipedon insularum.	U.S.A. (OH), Canada (Ont.).	Lake Erie offshore islands and their adjacent waters (located more than 1 mile from mainland)_U.S.A. (OH), Canada (Ont.).	T	665	NA	NA
Snake, Maria Island	Liophus ornatus	West Indies_St. Lucia (Maria Islands).	Entire	E	443	NA	NA
Snake, San Francisco garter	Thamnophis sirtalis tetrataenia.	U.S.A. (CA)	do	E	1	NA	NA
Tartaruga	Podocnemis expansa	South America_Orinoco R. and Amazon R. basins.	do	E	3	NA	NA
Terrapin, river	Batagur baska	Malaysia, Bangladesh, Burma, India, Indonesia.	do	E	3	NA	NA
Tomistoma	Tomistoma schlegelii	Malaysia, Indonesia	do	E	15	NA	NA
Tortoise, angulated	Geochelone yniphora	Malagasy Republic	do	E	15	NA	NA

		(=Madagascar).					
Tortoise, Bolson	Gopherus flavomarginatus.	Mexico	.....do	E	46	NA	NA
Tortoise, desert	Gopherus agassizii	U.S.A. (AZ, CA, NV, UT), Mexico.	Entire, except AZ south and east of Colorado R., and Mexico.	T	103, 357E, 378	17.95(c)	NA
Do	.....do	.....do	AZ south and east of Colorado R., and Mexico, when found outside of Mexico or said range in AZ.	T(S/A)	378	NA	17.42(e)
Tortoise, Galapagos	Geochelone nigra (=elephantopus).	Ecuador (Galapagos Islands).	Entire	E	3	NA	NA
Tortoise, gopher	Gopherus polyphemus	U.S.A. (AL, FL, GA, LA, MS, SC).	Wherever found west of Mobile and Tombigbee Rivers in AL, MS, and LA.	T	281	NA	NA
Tortoise, Madagascar radiated	Geochelone radiata	Malagasy Republic (=Madagascar).	Entire	E	3	NA	NA
Tracaja	Podocnemis unifilis	South America_Orinoco R. and Amazon R. basins.	.....do	E	3	NA	NA
Tuatara	Sphenodon punctatus	New Zealand	.....do	E	3, 630	NA	NA
Tuatara, Brother's Island	Sphenodon guntheri	New Zealand (N. Brother's Island).	.....do	E	3, 630	NA	NA
Turtle, Alabama redbelly	Pseudemys alabamensis	U.S.A. (AL)	.....do	E	278	NA	NA
Turtle, aquatic box	Terrapene coahuila	Mexico	.....do	E	6	NA	NA
Turtle, black softshell	Trionyx nigricans	Bangladesh	.....do	E	15	NA	NA
Turtle, bog (=Muhlenberg)	Clemmys muhlenbergii	U.S.A. (CT, DE, GA, MA, MD, NC, NJ, NY, PA, SC, TN, VA).	Entire, except GA, NC, SC, TN, VA.	T	626	NA	NA
Do	.....do	.....do	U.S.A. (GA, NC, SC, TN, VA).	T(S/A)	626	NA	17.42(f)
Turtle, Brazilian sideneck	Phrynops hogei	Brazil	Entire	E	443	NA	NA
Turtle, Burmese peacock	Morenia ocellata	Burma	.....do	E	15	NA	NA
Turtle, Cat Island	Trachemys terrapen	West Indies_Jamaica, Bahamas.	Cat Island in the Bahamas.	E	443	NA	NA
Turtle, Central American river	Dermatemys mawii	Mexico, Belize, Guatemala.	Entire	E	129	NA	NA
Turtle, Cuatro Cienegas softshell	Trionyx ater	Mexico	.....do	E	15	NA	NA
Turtle, flattened musk	Sternotherus depressus.	U.S.A. (AL)	Black Warrior R. system upstream from Bankhead Dam.	T	272	NA	NA
Turtle, geometric	Psammobates geometricus	South Africa	Entire	E	15	NA	NA
Turtle, Inagua Island	Trachemys stejnegeri malonei.	West Indies_Bahamas (Great Inagua Island).	.....do	E	443	NA	NA
Turtle, Indian sawback	Kachuga tecta tecta	India	.....do	E	15	NA	NA
Turtle, Indian softshell	Trionyx gangeticus	Pakistan, India	.....do	E	15	NA	NA
Turtle, peacock softshell	Trionyx hurum	India, Bangladesh	.....do	E	15	NA	NA
Turtle, Plymouth redbelly	Pseudemys rubriventris bangsi.	U.S.A. (MA)	.....do	E	90	17.95(c)	NA
Turtle, ringed map	Graptemys oculifera	U.S.A. (LA, MS)	.....do	T	250	NA	NA
Turtle, short-necked or western swamp.	Pseudemydura umbrina	Australia	.....do	E	3	NA	NA
Turtle, South American red-lined	Trachemys scripta callirostris.	Colombia, Venezuela	.....do	E	443	NA	NA
Turtle, spotted pond	Geoclemys hamiltonii	North India, Pakistan	.....do	E	15	NA	NA
Turtle, three-keeled Asian	Melanochelys tricarinata.	Central India to Bangladesh and Burma.	.....do	E	15	NA	NA
Turtle, yellow-blotched map	Graptemys flavimaculata	U.S.A. (MS)	.....do	T	416	NA	NA
Viper, Lar Valley	Vipera latifii	Iran	.....do	E	129	NA	NA
Whipsnake, Alameda (=striped racer).	Masticophis lateralis euryxanthus.	U.S.A. (CA)	.....do	T	628	17.95(c)	NA
Amphibians	.....	.....	.....	.....	.....	.....	.....
Coqui, golden	Eleutherodactylus jasperi.	U.S.A. (PR)	.....do	T	29	17.95(d)	NA
Frog , California red-legged	Rana aurora draytonii	U.S.A. (CA), Mexico	Entire (excluding Del Norte, Humboldt, Trinity, & Mendocino Cos., CA; Glenn, Lake, and Sonoma Cos., CA, west of the Central Valley Hydrologic Basin; Sonoma & Marin Cos., CA, west & North of San Francisco Bay drainages and Walker Creek drainage; and NV).	T	583	17.95(d)	NA
Frog, Chiricahua leopard	Rana chiricahuensis	U.S.A. (AZ, NM), Mexico	Entire	T	726	NA	§ 17.43(b)
Frog, Goliath	Conraua goliath	Cameroon, Equatorial Guinea, Gabon.	.....do	T	566	NA	NA
Frog, Israel painted	Discoglossus nigriventer.	Israel	.....do	E	3	NA	NA
Frog, Mississippi gopher	Rana capitol sevosa	U.S.A. (AL, FL, LA, MS)	Wherever found west of Mobile and Tombigbee Rivers in Al, MS, and LA.	E	718	NA	NA
Frog, mountain yellow-legged (southern California DPS).	Rana muscosa	U.S.A. (California, Nevada).	U.S.A., southern California.	E	728	NA	NA
Frog, Panamanian golden	Atelopus varius zeteki.	Panama	Entire	E	15	NA	NA
Frog, Stephen Island	Leiopelma hamiltoni	New Zealand	.....do	E	3	NA	NA
Guajon	Eleutherodactylus cooki	U.S.A. (PR)	.....do	T	617	NA	NA
Salamander, Barton Springs	Eurycea sosorum	U.S.A. (TX)	.....do	E	612	NA	NA
Salamander, California tiger	Ambystoma californiense	U.S.A. (CA)	U.S.A. (CA_California).	T	744	NA	§ 17.43(c)

Salamander, Cheat Mountain.....	Plethodon nettingi.....	U.S.A. (WV).....	Entire.....	T	358	NA	NA
Salamander, Chinese giant.....	Andrias davidianus (=davidianus d.).	Western China.....	.....do.....	E	15	NA	NA
Salamander, desert slender.....	Batrachoseps aridus....	U.S.A. (CA).....	.....do.....	E	6	NA	NA
Salamander, flatwoods.....	Ambystoma cingulatum...	U.S.A. (AL, FL, GA, SC)	.....do.....	T	658	NA	NA
Salamander, Japanese giant.....	Andrias japonicus (=davidianus j.).	Japan.....	.....do.....	E	15	NA	NA
Salamander, Red Hills.....	Phaeognathus hubrichti.	U.S.A. (AL).....	.....do.....	T	19	NA	NA
Salamander, San Marcos.....	Eurycea nana.....	U.S.A. (TX).....	.....do.....	T	98	17.95(d)	17.43(a)
Salamander, Santa Cruz long-toed....	Ambystoma macrodactylum croceum.	U.S.A. (CA).....	.....do.....	E	1	NA	NA
Salamander, Shenandoah.....	Plethodon shenandoah...	U.S.A. (VA).....	.....do.....	E	358	NA	NA
Salamander, Sonoran tiger.....	Ambystoma tigrinum stebbinsi.	U.S.A. (AZ), Mexico....	.....do.....	E	600	NA	NA
Salamander, Texas blind.....	Typhlomolge rathbuni...	U.S.A. (TX).....	.....do.....	E	1	NA	NA
Toad, arroyo (=arroyo southwestern).	Bufo californicus.....	U.S.A. (CA), Mexico....	.....do.....	E	568	17.95(d)	NA
Toad, Cameroon.....	Bufo superciliaris.....	Equatorial Africa.....	.....do.....	E	15	NA	NA
Toad, Houston.....	Bufo houstonensis.....	U.S.A. (TX).....	.....do.....	E	2	17.95(d)	NA
Toad, Monte Verde golden.....	Bufo periglenes.....	Costa Rica.....	.....do.....	E	15	NA	NA
Toad, Puerto Rican crested.....	Peltophryne lemur.....	U.S.A. (PR), British Virgin Islands.	.....do.....	T	283	NA	NA
Toad, Wyoming.....	Bufo hemiophrys baxteri	U.S.A. (WY).....	.....do.....	E	138	NA	NA
Toads, African viviparous.....	Nectophrynoides spp....	Tanzania, Guinea, Ivory Coast, Cameroon, Liberia, Ethiopia.	.....do.....	E	15	NA	NA
Fishes	.....	.....	.....	.....	.....	.....	.....
Ala Balik (trout).....	Salmo platycephalus....	Turkey.....	.....do.....	E	3	NA	NA
Ayumodoki (loach).....	Hymenophysa curta.....	Japan.....	.....do.....	E	3	NA	NA
Blindcat, Mexican (catfish).....	Prietella phreatophila.	Mexico.....	.....do.....	E	3	NA	NA
Bonytongue, Asian.....	Scleropages formosus...	Thailand, Indonesia, Malaysia.	.....do.....	E	15	NA	NA
Catfish.....	Pangasius sanitwongsei.	Thailand.....	.....do.....	E	3	NA	NA
Catfish, Thailand giant.....	Pangasianodon gigas....	.....do.....	.....do.....	E	3	NA	NA
Catfish, Yaqui.....	Ictalurus pricei.....	U.S.A. (AZ), Mexico....	.....do.....	T	157	17.95(e)	17.44(h)
Cavefish, Alabama.....	Speoplatyrhinus poulsoni.	U.S.A. (AL).....	.....do.....	E	28, 328	17.95(e)	NA
Cavefish, Ozark.....	Amblyopsis rosae.....	U.S.A. (AR, MO, OK)....	.....do.....	T	164	NA	NA
Chub, bonytail.....	Gila elegans.....	U.S.A. (AZ, CA, CO, NV, UT, WY).	.....do.....	E	92	17.95(e)	NA
Chub, Borax Lake.....	Gila boraxobius.....	U.S.A. (OR).....	.....do.....	E	94E, 124	17.95(e)	NA
Chub, Chihuahua.....	Gila nigrescens.....	U.S.A. (NM), Mexico (Chihuahua).	.....do.....	T	132	NA	17.44(g)
Chub, humpback.....	Gila cypha.....	U.S.A. (AZ, CO, UT, WY)	.....do.....	E	1	17.95(e)	NA
Chub, Hutton tui.....	Gila bicolor ssp.....	U.S.A. (OR).....	.....do.....	T	174	NA	17.44(j)
Chub, Mohave tui.....	Gila bicolor mohavensis	U.S.A. (CA).....	.....do.....	E	2	NA	NA
Chub, Oregon.....	Oregonichthys crameri..	U.S.A. (OR).....	.....do.....	E	520	NA	NA
Chub, Owens tui.....	Gila bicolor snyderi...	U.S.A. (CA).....	.....do.....	E	195	17.95(e)	NA
Chub, Pahranagat roundtail.....	Gila robusta jordani...	U.S.A. (NV).....	.....do.....	E	2	NA	NA
Chub, slender.....	Erimystax cahni.....	U.S.A. (TN, VA).....	.....do.....	T	28	17.95(e)	17.44(c)
Chub, Sonora.....	Gila ditaenia.....	U.S.A. (AZ), Mexico....	.....do.....	T	227	17.95(e)	17.44(o)
Chub, spotfin (=turquoise shiner)...	Cyprinella(=Hybopsis monacha).	U.S.A. (AL, GA, NC, TN, VA).	Entire, except where listed as an experimental population.	T	28, 732	17.95(e)	17.44(c)
Do.....	.....do.....	.....do.....	Tellico River, from the backwaters of the Tellico Reservoir (about Tellico River mile 19 [30.4 km]) upstream to Tellico River mile 33 (52.8 km), in Monroe County, TN.	XN	732	NA	17.84(m)
Chub, Virgin River.....	Gila robusta semidnuda.	U.S.A. (AZ, NV, UT)....	Entire.....	E	361	17.95(e)	NA
Chub, Yaqui.....	Gila purpurea.....	U.S.A. (AZ), Mexico....	.....do.....	E	157	17.95(e)	NA
Cicek (minnow).....	Acanthorutilus handlirschi.	Turkey.....	.....do.....	E	3	NA	NA
Cui-ui.....	Chasmistes cujus.....	U.S.A. (NV).....	.....do.....	E	1	NA	NA
Dace, Ash Meadows speckled.....	Rhinichthys osculus nevadensis.	.....do.....	.....do.....	E	117E, 127E, 130	17.95(e)	NA
Dace, blackside.....	Phoxinus cumberlandensis.	U.S.A. (KY, TN).....	.....do.....	T	273	NA	NA
Dace, Clover Valley speckled.....	Rhinichthys osculus oligoporus.	U.S.A. (NV).....	.....do.....	E	370	NA	NA
Dace, desert.....	Eremichthys acros.....	.....do.....	.....do.....	T	1, 2D, 210	17.95(e)	17.44(m)
Dace, Foskett speckled.....	Rhinichthys osculus ssp..	U.S.A. (OR).....	.....do.....	T	174	NA	17.44(j)
Dace, Independence Valley speckled..	Rhinichthys osculus lethoporus.	U.S.A. (NV).....	.....do.....	E	370, 372	NA	NA
Dace, Kendall Warm Springs.....	Rhinichthys osculus thermalis.	U.S.A. (WY).....	.....do.....	E	2	NA	NA
Dace, Moapa.....	Moapa coriacea.....	U.S.A. (NV).....	.....do.....	E	1	NA	NA
Darter, amber.....	Percina antesella.....	U.S.A. (AL, GA, TN)....	.....do.....	E	196	17.95(e)	NA
Darter, bayou.....	Etheostoma rubrum.....	U.S.A. (MS).....	.....do.....	T	10	NA	17.44(b)
Darter, bluemask.....	Etheostoma sp.....	U.S.A. (TN).....	.....do.....	E	525	NA	NA
Darter, boulder.....	Etheostoma wapiti.....	U.S.A. (AL, TN).....	.....do.....	E	322	NA	NA
Darter, Cherokee.....	Etheostoma scotti.....	U.S.A. (GA).....	.....do.....	T	569	NA	NA
Darter, duskytail.....	Etheostoma percnurum...	U.S.A. (TN, VA).....	Entire, except where listed as an experimental population.	E	502, 732	NA	NA
Do.....	.....do.....	.....do.....	Tellico River, from the backwaters of the Tellico Reservoir (about Tellico River	XN	732	NA	17.84(m)

			mile 19 [30.4 km]) upstream to Tellico River mile 33 (52.8 km), in Monroe County, TN.				
Darter, Etowah	Etheostoma etowahae	U.S.A. (GA)	Entire	E	569	NA	NA
Darter, fountain	Etheostoma fonticola	U.S.A. (TX)	do	E	2	17.95(e)	NA
Darter, goldline	Percina aurolineata	U.S.A. (AL, GA, TN)	do	T	462	NA	NA
Darter, leopard	Percina pantherina	U.S.A. (AR, OK)	do	T	31	17.95(e)	17.44(d)
Darter, Maryland	Etheostoma sellare	U.S.A. (MD)	do	E	1	17.95(e)	NA
Darter, Niangua	Etheostoma nianguae	U.S.A. (MO)	do	T	185	17.95(e)	17.44(k)
Darter, Okaloosa	Etheostoma okaloosae	U.S.A. (FL)	do	E	6	NA	NA
Darter, relict	Etheostoma chienense	U.S.A. (KY)	do	E	525	NA	NA
Darter, slackwater	Etheostoma boschungi	U.S.A. (AL, TN)	do	T	28	17.95(e)	17.44(c)
Darter, snail	Percina tanasi	U.S.A. (AL, GA, TN)	do	T	12, 150	NA	NA
Darter vermilion	Etheostoma chermocki	U.S.A. (AL)	do	E	715	NA	NA
Darter, watercress	Etheostoma nuchale	do	do	E	2	NA	NA
Gambusia, Big Bend	Gambusia gaigei	U.S.A. (TX)	do	E	1	NA	NA
Gambusia, Clear Creek	Gambusia heterochir	do	do	E	1	NA	NA
Gambusia, Pecos	Gambusia nobilis	U.S.A. (NM, TX)	do	E	2	NA	NA
Gambusia, San Marcos	Gambusia georgei	U.S.A. (TX)	do	E	98	17.95(e)	NA
Goby, tidewater	Eucyclogobius newberryi	U.S.A. (CA)	do	E	527	17.95(e)	NA
Logperch, Conasauga	Percina jenkinsi	U.S.A. (GA, TN)	do	E	196	17.95(e)	NA
Logperch, Roanoke	Percina rex	U.S.A. (VA)	do	E	359	NA	NA
Madtom, Neosho	Noturus placidus	U.S.A. (KS, MO, OK)	do	T	388	NA	NA
Madtom, pygmy	Noturus stanauli	U.S.A. (TN)	do	E	502	NA	NA
Madtom, Scioto	Noturus trautmani	U.S.A. (OH)	do	E	10	NA	NA
Madtom, smoky	Noturus baileyi	U.S.A. (TN)	Entire, except where listed as an experimental population.	E	163, 732	17.95(e)	NA
Do	do	do	Tellico River, from the backwaters of the Tellico Reservoir (about Tellico River mile 19 [30.4 km]) upstream to Tellico River mile 33 (52.8 km), in Monroe County, TN.	XN	732	NA	17.84(m)
Madtom, yellowfin	Noturus flavipinnis	U.S.A. (TN, VA)	Entire, except where listed as an experimental population.	T	28, 317, 732	17.95(e)	17.44(c)
Do	do	do	N. Fork Holston River Watershed, VA, TN; S. Fork Holston R., up-stream to Ft. Patrick Henry Dam, TN; Holston R. down-stream to John Sevier Detention Lake Dam, TN; and all tributaries thereto.	XN	317	NA	17.84(e)
Do	do	do	Tellico River, from the backwaters of the Tellico Reservoir (about Tellico River mile 19 [30.4 km]) upstream to Tellico River mile 33 (52.8 km), in Monroe County, TN.	XN	732	NA	17.84(e)
Minnow, Devils River	Dionda diaboli	U.S.A. (TX), Mexico	Entire	T	669	NA	NA
Minnow, loach	Rhinichthys cobitis	U.S.A. (AZ, NM), Mexico	do	T	247	17.95(e)	17.44(q)
Minnow, Rio Grande silvery	Hybognathus amarus	U.S.A. (NM, TX), Mexico	do	E	543	17.95(e)	NA
Nekogigi (catfish)	Coreobagrus ichikawai	Japan	do	E	3	NA	NA
Pikeminnow (=squawfish), Colorado	Ptychocheilus lucius	U.S.A. (AZ, CA, CO, NM, NV, UT, WY), Mexico.	Entire, except Salt and Verde R. drainages, AZ.	E	1, 193	17.95(e)	NA
Do	do	do	Salt and Verde R. drainages, AZ.	XN	193	NA	17.84(b)
Poolfish, Pahrump	Empetrichthys latos	U.S.A. (NV)	Entire	E	1	NA	NA
Pupfish, Ash Meadows Amargosa	Cyprinodon nevadensis mionectes.	do	do	E	117E, 127E, 130	17.95(e)	NA
Pupfish, Comanche Springs	Cyprinodon elegans	U.S.A. (TX)	do	E	1	NA	NA
Pupfish, desert	Cyprinodon macularius	U.S.A. (AZ, CA) Mexico.	do	E	222	17.95(e)	NA
Pupfish, Devils Hole	Cyprinodon diabolis	U.S.A. (NV)	do	E	1	NA	NA
Pupfish, Leon Springs	Cyprinodon bovinus	U.S.A. (TX)	do	E	102	17.95(e)	NA
Pupfish, Owens	Cyprinodon radiosus	U.S.A. (CA)	do	E	1	NA	NA
Pupfish, Warm Springs	Cyprinodon nevadensis pectoralis.	U.S.A. (NV)	do	E	2	NA	NA
Salmon, Atlantic	Salmo salar	U.S.A., Canada, Greenland, western Europe.	U.S.A., ME Gulf of Maine Atlantic Salmon Distinct Population Segment, which includes all naturally reproducing wild populations and those river-specific hatchery populations of Atlantic salmon having historical, river-specific characteristics found north of and including tributaries of the lower Kennebec River to, but not including,	E	705	NA	NA

			the mouth of the St. Croix River at the U.S.-Canada border. To date, the Services have determined that these populations are found in the Dennys, East Machias, Machias, Pleasant, Narraguagus, Sheepscot, and Ducktrap Rivers and in Cove Brook, Maine..				
Salmon, chinook.....	Oncorhynchus (=Salmo) tshawytscha.	North America from Ventura R. in California to Point Hope, Alaska, and the Mackenzie R. area in Canada; Northeast Asia from Hokkaido, Japan, to the Anadyr R., Russia.	Sacramento R. (U.S.A._CA) winter run, wherever found.	E	383E, 407, 534	226.204	NA
Do.....	.....do.....	.....do.....	Snake R. (U.S.A._ID, OR, WA) mainstem and the following subbasins_Tucannon R., Grande Ronde R., Imnaha R., Salmon R, and Clearwater R.; fall run, natural population(s), wherever found.	T	516, 557E	226.205	NA
Do.....	.....do.....	.....do.....	Snake R. (U.S.A._ID,OR,WA) mainstem and the following subbasins_Tucannon R., Grande Ronde R., Imnaha R., and Salmon R.; spring/summer run, natural population(s), wherever found.	T	516, 557E	226.205	NA
Do.....	.....do.....	.....do.....	U.S.A.(OR, WA) all naturally spawned populations from the Columbia R. and its tributaries upstream from its mouth to a point east of the Hood R. and White Salmon R. to Willamette Falls in Oregon, excluding the spring run in the Clackamas R..	T	664	226.212	223.203
Do.....	.....do.....	.....do.....	U.S.A.(WA) all naturally spawned populations in the Columbia R. tributaries upstream of Rock Island Dam and downstream of Chief Joseph Dam, excluding the Okanogan R., and the Columbia R. from a line between the west end of Clatsop jetty, OR, and the west end of Peacock jetty, WA, upstream to Chief Joseph Dam, including spring-run hatchery stocks (and their progeny) in Chiwawa R., Methow R., Twisp R., Chewuch R., White R. and Nason Creek.	T	664	226.212	NA
Do.....	.....do.....	.....do.....	U.S.A.(CA) from Redwood Creek south to Russian R., inclusive, all naturally spawned populations in mainstems and tributaries.	T	674	226.212	NA
Do.....	.....do.....	.....do.....	U.S.A.(CA) all naturally spawned spring-run populations from the Sacramento San Joaquin R. mainstem and its tributaries.	T	674	226.212	NA
Do.....	.....do.....	.....do.....	U.S.A.(OR) all naturally spawned populations in the Clackamas R. and the Willamette R. and its tributaries above Willamette Falls.	T	664	226.212	223.203
Do.....	.....do.....	.....do.....	U.S.A.(WA) all	T	664	226.212	223.203

			naturally spawned populations from rivers and streams flowing into Puget Sound, including the Straits of Juan De Fuca from the Elwha R. eastward, and Hood Canal, South Sound, North Sound and the Strait of Georgia.				
Salmon, chum	Oncorhynchus (=Salmo) keta.	North Pacific Rim from Korea and the Japanese Island of Honshu east to Monterey Bay California; Arctic Ocean from the Laptev Sea in Russia to Mackenzie R. in Canada.	U.S.A. (OR, WA) all naturally spawned populations in the Columbia R. and its tributaries.	T	664	226.212	223.203
Do	.....do	.....do	U.S.A. (WA) all naturally spawned summer-run populations in Hood Canal and its tributaries and Olympic Penninsula rivers between Hood Canal and Dungeness Bay.	T	664	226.212	223.203
Salmon, coho	Oncorhynchus (=Salmo) kisutch.	North Pacific Basin from U.S.A. (CA to AK) to Russia and Japan.	U.S.A. (CA), naturally spawning populations in streams between Punta Gorda, Humboldt Co., CA and the San Lorenzo River, Santa Cruz, Co., CA.	T	598	NA	NA
Do	.....do	.....do	U.S.A. (natural populations in river basins between Cape Blanco in Curry County, OR and Punta Gorda in Humboldt Co., CA).	T	618	226.212	NA
Salmon, sockeye	Oncorhynchus (=Salmo) nerka.	North Pacific Basin from U.S.A. (CA) to Russia.	U.S.A. (Snake River, ID stock wherever found.).	E	455	226.205	NA
Do	.....do	.....do	U.S.A. (WA) all naturally spawned populations in Ozette Lake and its tributary streams.	T	664	226.212	223.203
Sculpin, pygmy	Cottus pygmaeus	U.S.A. (AL)	Entire	T	365	NA	17.44(u)
Shiner, Arkansas River	Notropis girardi	U.S.A. (AR, KS, NM, OK, TX).	Arkansas River Basin (AR, KS, NM, OK, TX.	T	653	17.95(e)	NA
Shiner, beautiful	Cyprinella formosa	U.S.A. (AZ, NM), Mexico	Entire	T	157	17.95(e)	17.44(h)
Shiner, blue	Cyprinella caerulea	U.S.A. (AL, GA, TN)	.....do	T	462	NA	NA
Shiner, Cahaba	Notropis cahabae	U.S.A. (AL)	.....do	E	405	NA	NA
Shiner, Cape Fear	Notropis mekistocholas.	U.S.A. (NC)	.....do	E	290	17.95(e)	NA
Shiner, palezone	Notropis albizonatus	U.S.A. (AL, KY, TN)	.....do	E	502	NA	NA
Shiner, Pecos bluntnose	Notropis simus pecosensis.	U.S.A. (NM)	.....do	T	258	17.95(e)	17.44(r)
Shiner, Topeka	(Notropis topeka = tristis).	U.S.A. (IA, KS, MN, MO, NE, SD).	.....do	E	654	17.95(e)	N/A
Silverside, Waccamaw	Menidia extensa	U.S.A. (NC)	.....do	T	265	17.95(e)	17.44(s)
Smelt, delta	Hypomesus transpacificus.	U.S.A. (CA)	.....do	T	492	17.95(e)	NA
Spikedace	Meda fulgida	U.S.A. (AZ, NM), Mexico	.....do	T	236	17.95(e)	17.44(p)
Spinedace, Big Spring	Lepidomeda mollispinis pratensis.	U.S.A. (NV)	.....do	T	173	17.95(e)	17.44(i)
Spinedace, Little Colorado	Lepidomeda vittata	U.S.A. (AZ)	.....do	T	1, 2D, 287	17.95(e)	17.44(t)
Spinedace, White River	Lepidomeda albivallis	U.S.A. (NV)	.....do	E	203	17.95(e)	NA
Springfish, Hiko White River	Crenichthys baileyi grandis.	U.S.A. (NV)	.....do	E	206	17.95(e)	NA
Springfish, Railroad Valley	Crenichthys nevadae	.....do	.....do	T	224	17.95(e)	17.44(n)
Springfish, White River	Crenichthys baileyi baileyi.	.....do	.....do	E	206	17.95(e)	NA
Steelhead	Oncorhynchus (=Salmo) mykiss.	North Pacific Ocean from the Kamchatka Peninsula in Asia to the northern Baja Peninsula.	All naturally spawned populations (and their progeny) in rivers from the Santa Maria R., San Luis Obispo County, CA (inclusive) to Malibu Cr., Los Angeles County, CA (inclusive).	E	638	226.212	NA
Do	.....do	.....do	All naturally spawned populations (and their progeny) in the Upper Columbia R. Basin upstream from the Yakima R., WA, to the U.S./Canada border, and also including the Wells Hatchery stock.	E	638	226.212	NA
Do	.....do	.....do	All naturally spawned populations (and their progeny) in streams from the Russian R. to	T	638	226.212	223.203

			Aptos Cr., Santa Cruz County, CA (inclusive), and the drainages of San Francisco and San Pablo Bays eastward to the Napa R. (inclusive), Napa County, CA, excluding the Sacramento-San Joaquin R. Basin of the Central Valley of CA.				
Do.....	.....do.....	.....do.....	All naturally spawned populations (and their progeny) in streams from the Pajaro R. (inclusive) located in Santa Cruz County, CA, to (but not including) the Santa Maria R.	T	638	226.212	223.203
Do.....	.....do.....	.....do.....	All naturally spawned populations (and their progeny) in streams in the Snake R. Basin of southeast WA, northeast OR, and ID.	T	638	226.212	223.203
Do.....	.....do.....	.....do.....	All naturally spawned populations (and their progeny) in streams and tributaries to the Columbia R. between the Cowlitz and Wind Rivers, WA, inclusive, and the Willamette and Hood Rivers, OR, inclusive, excluding the Upper Willamette River Basin above Willamette Falls and excluding the Little and Big White Salmon Rivers in WA.	T	638	226.212	223.203
Do.....	.....do.....	.....do.....	All naturally spawned populations (and their progeny) in the Sacramento and San Joaquin Rivers and their tributaries, excluding San Francisco and San Pablo Bays and their tributaries.	T	638	226.212	223.203
Do.....	.....do.....	.....do.....	U.S.A. (OR, WA) All naturally spawned populations in streams above and excluding the Wind R. in Washington, and the Hood R. in Oregon, upstream to, and including, the Yakima R. Excluded are steelhead from the Snake R. Basin..	T	664	226.212	223.203
Do.....	.....do.....	.....do.....	U.S.A. (OR) All naturally spawned winter-run populations in the Willamette R. and its tributaries from Willamette Falls to the Calapooia R., inclusive.	T	664	226.212	223.203
Do.....	.....do.....	.....do.....	All naturally spawned populations (and their progeny) in river basins from Redwood Creek in Humboldt County, CA, to the Gualala River, in Mendocino County, CA (inclusive).	T	701	NA	NA
Stickleback, unarmored threespine...	Gasterosteus aculeatus williamsoni.	U.S.A. (CA).....	Entire.....	E	2	NA	NA
Sturgeon, Alabama.....	Scaphirhynchus suttkusi	U.S.A. (AL, MS).....	.....do.....	E	697	NA	NA
Sturgeon, Gulf.....	Acipenser oxyrinchus (=oxyrhynchus) desotoi.	U.S.A. (AL, FL, GA, LA, MS).	.....do.....	T	444	17.95(e), 226.214	17.44(v)
Sturgeon, pallid.....	Scaphirhynchus albus...	U.S.A. (AR, IA, IL, KS, KY, LA, MO, MS, MT, ND, NE, SD, TN).	.....do.....	E	399	NA	NA
Sturgeon, shortnose.....	Acipenser brevirostrum.	U.S.A. and Canada (Atlantic Coast).	.....do.....	E	1	NA	NA
Sturgeon, white.....	Acipenser transmontanus	U.S.A. (ID, MT) Canada (B.C.).	U.S.A. (ID, MT) Canada (B.C.) (Kootenai R. system).	E	549	17.95(e)	NA
Sucker, June.....	Chasmistes liorus.....	U.S.A. (UT).....	Entire.....	E	223	17.95(e)	NA
Sucker, Lost River.....	Deltistes luxatus.....	U.S.A. (CA, OR).....	.....do.....	E	313	NA	NA

Sucker, Modoc	Catostomus microps	U.S.A. (CA)	do	E	184	17.95(e)	NA
Sucker, razorback	Xyrauchen texanus	U.S.A. (AZ, CA, CO, NM, NV, UT, WY), Mexico.	do	E	447	17.95(e)	NA
Sucker, Santa Ana	(Catostomus santaanae).	U.S.A. (CA)	Los Angeles River basin, San Gabriel River basin, Santa Ana River basin.	T	694	17.95(e)	N/A
Sucker, shortnose	Chasmistes brevirostris	U.S.A. (CA, OR)	Entire	E	313	NA	NA
Sucker, Warner	Catostomus warnerensis.	U.S.A. (OR)	do	T	205	17.95(e)	17.44(l)
Tango, Miyako (Tokyo bitterling)	Tanakia tanago	Japan	do	E	3	NA	NA
Temoleh, Ikan (minnow)	Probarbus jullieni	Thailand, Cambodia, Vietnam, Malaysia, Laos.	do	E	15	NA	NA
Topminnow, Gila (incl. Yaqui)	Poeciliopsis occidentalis.	U.S.A. (AZ, NM), Mexico	U.S.A. only	E	1	NA	NA
Totoaba (seatrout or weakfish)	Cynoscion macdonaldi	Mexico (Gulf of California).	Entire	E	48	NA	NA
Trout, Apache	Oncorhynchus apache	U.S.A. (AZ)	do	T	1, 8	NA	17.44(a)
Trout, bull	Salvelinus confluentus.	U.S.A. (AK, Pacific NW into CA, ID, NV, MT), Canada (NW Territories).	U.S.A., conterminous (lower 48 states).	T	637, 639E, 659, 670	NA	17.44(w), 17.44(x)
Trout, Gila	Oncorhynchus gilae	U.S.A. (AZ, NM)	Entire	E	1	NA	NA
Trout, greenback cutthroat	Oncorhynchus clarki stomias.	U.S.A. (CO)	do	T	1, 38	NA	17.44(f)
Trout, Lahontan cutthroat	Oncorhynchus clarki henshawi.	U.S.A. (CA, NV, OR, UT)	do	T	2, 8	NA	17.44(a)
Trout, Little Kern golden	Oncorhynchus aguabonita whitei.	U.S.A. (CA)	do	T	37	17.95(e)	17.44(e)
Trout, Paiute cutthroat	Oncorhynchus clarki seleniris.	do	do	T	1, 8	NA	17.44(a)
Woundfin	Plagopterus argentissimus.	U.S.A. (AZ, NV, UT)	Entire, except Gila R. drainage, AZ, NM.	E	2, 193	17.95(e)	NA
Do	do	do	Gila R. drainage, AZ, NM.	XN	193	NA	17.84(b)
Clams							
Acornshell, southern	Epioblasma othcaloogensis.	U.S.A. (AL, GA, TN)	NA	E	495	17.95 (f)	NA
Bankclimber, purple (mussel)	Elliptoideus sloatianus	U.S.A. (AL, GA, FL)	Entire	T	633	NA	NA
Bean, Cumberland (pearlymussel)	Villosa trabalis	U.S.A. (AL, KY, TN, VA)	NA	E	15	NA	NA
Do	do	do	U.S.A. (AL_The free-flowing reach of the Tennessee R. from the base of Wilson Dam downstream to the backwaters of Pickwick Reservoir [about 12 RM (19 km)] and the lower 5 RM [8 km] of all tributaries to this reach in Colbert and Lauderdale Cos., see 17.85(a)).	XN	709	NA	17.85(a)
Bean, Purple	Villosa perpurpurea	U.S.A. (TN, VA)	Entire	E	602	NA	NA
Blossom, green (pearlymussel)	Epioblasma torulosa gubernaculum.	do	do	E	15	NA	NA
Blossom, tuberoled (pearlmyussel)	Epioblasma torulosa torulosa.	U.S.A. (AL, IL, IN, KY, TN, WV).	NA	E	15	NA	NA
Do	do	do	U.S.A. (AL_The free-flowing reach of the Tennessee R. from the base of Wilson Dam downstream to the backwaters of Pickwick Reservoir [about 12 RM (19 km)] and the lower 5 RM [8 km] of all tributaries to this reach in Colbert and Lauderdale Cos., see 17.85(a)).	XN	709	NA	17.85(a)
Blossom, turgid (pearlymussel)	Epioblasma turgidula	U.S.A. (AL, TN)	NA	E	15	NA	NA
Do	do	do	U.S.A. (AL_The free-flowing reach of the Tennessee R. from the base of Wilson Dam downstream to the backwaters of Pickwick Reservoir [about 12 RM (19 km)] and the lower 5 RM [8 km] of all tributaries to this reach in Colbert and Lauderdale Cos., see 17.85(a)).	XN	709	NA	17.85(a)
Blossom, yellow (pearlymussel)	Epioblasma florentina florentina.	U.S.A. (AL, TN)	NA	E	15	NA	NA
Do	do	do	U.S.A. (AL_The free-flowing reach of the Tennessee R. from the base of Wilson Dam downstream to the backwaters of Pickwick Reservoir [about 12 RM (19 km)] and the lower 5 RM [8 km] of all tributaries to this reach in Colbert and	XN	709	NA	17.85(a)

			Lauderdale Cos., see 17.85(a)).				
Catspaw, (=purple cat's paw pearlymussel).	Epioblasma.....	U.S.A. (AL, IL, IN, KY, OH, TN).	NA.....	E	394	NA	NA
Do.....	.....do.....	.....do.....	U.S.A. (AL_The free-flowing reach of the Tennessee R. from the base of Wilson Dam downstream to the backwaters of Pickwick Reservoir [about 12 RM (19 km)] and the lower 5 RM [8 km] of all tributaries to this reach in Colbert and Lauderdale Cos., see 17.85(a)).	XN	709	NA	17.85(a)
Catspaw, white (pearlymussel).....	Epioblasma obliquata perobliqua.	U.S.A. (IN, MI, OH)....	Entire.....	E	15	NA	NA
Clubshell.....	Pleurobema clava.....	U.S.A. (AL, IL, IN, KY, MI, OH, PA, TN, WV).	NA.....	E	488	NA	NA
Do.....	.....do.....	.....do.....	U.S.A. (AL_The free-flowing reach of the Tennessee R. from the base of Wilson Dam downstream to the backwaters of Pickwick Reservoir [about 12 RM (19 km)] and the lower 5 RM [8 km] of all tributaries to this reach in Colbert and Lauderdale Cos., see 17.85(a)).	XN	709	NA	17.85(a)
Clubshell, black.....	Pleurobema curtum.....	U.S.A. (AL, MS).....	Entire.....	E	262	NA	NA
Clubshell, ovate.....	Pleurobema perovatum...	U.S.A. (AL, TN, GA, MS)	NA.....	E	495	17.95 (f)	NA
Clubshell, southern.....	Pleurobema decisum.....	U.S.A. (AL, TN, GA, MS)	NA.....	E	495	17.95 (f)	NA
Combshell, Cumberlandian.....	Epioblasma brevidens...	U.S.A. (AL, KY, MS, TN, VA).	NA.....	E	602	NA	NA
Do.....	.....do.....	.....do.....	U.S.A. (AL_The free-flowing reach of the Tennessee R. from the base of Wilson Dam downstream to the backwaters of Pickwick Reservoir [about 12 RM (19 km)] and the lower 5 RM [8 km] of all tributaries to this reach in Colbert and Lauderdale Cos., see 17.85(a)).	XN	709	NA	17.85(a)
Combshell, southern.....	Epioblasma (=Dysnomia) penita.	U.S.A. (AL, MS).....	Entire.....	E	262	NA	NA
Combshell, upland.....	Epioblasma metastriata.	U.S.A. (AL, GA, TN)....	NA.....	E	495	17.95 (f)	NA
Elktoe, Appalachian.....	Alasmidonta raveneliana	U.S.A. (NC, TN).....	Entire.....	E	563	17.95(f)	NA
Elktoe, Cumberland.....	Alasmidonta atropurpurea.	U.S.A. (KY, TN).....	.....do.....	E	602	NA	NA
Fanshell.....	Cyprogenia stegaria (=irrorata).	U.S.A. (AL, IL, IN, KY, OH, PA, TN, VA, WV).	.....do.....	E	391	NA	NA
Fatmucket, Arkansas.....	Lampsilis powelli.....	U.S.A. (AR).....	.....do.....	T	382	NA	NA
Heelsplitter, Alabama (=inflated)...	Potamilus inflatus.....	U.S.A. (AL, LA, MS)....	.....do.....	T	404	NA	NA
Heelsplitter, Carolina.....	Lasmigona decorata.....	U.S.A. (NC, SC).....	.....do.....	E	505	17.95(f)	NA
Higgins eye (pearlymussel).....	Lampsilis higginsii....	U.S.A. (IA, IL, MN, MO, NE, WI).	.....do.....	E	15	NA	NA
Kidneyshell, triangular.....	Ptychobranchus greenii.	U.S.A. (AL, GA, TN)....	NA.....	E	495	17.95 (f)	NA
Lampmussel, Alabama.....	Lampsilis virescens....	U.S.A. (AL, TN).....	NA.....	E	15	NA	NA
Do.....	.....do.....	.....do.....	U.S.A. (AL_The free-flowing reach of the Tennessee R. from the base of Wilson Dam downstream to the backwaters of Pickwick Reservoir [about 12 RM (19 km)] and the lower 5 RM [8 km] of all tributaries to this reach in Colbert and Lauderdale Cos., see 17.85(a)).	XN	709	NA	17.85(a)
Lilliput, pale (pearlymussel).....	Toxolasma cylindrellus.	.....do.....	Entire.....	E	15	NA	NA
Mapleleaf, winged (mussel).....	Quadrula fragosa.....	U.S.A. (AL, IA, IL, IN, KY, MN, MO, NE, OH, OK, TN, WI).	NA.....	E	426	NA	NA
Do.....	.....do.....	.....do.....	U.S.A. (AL_The free-flowing reach of the Tennessee R. from the base of Wilson Dam downstream to the backwaters of Pickwick Reservoir [about 12 RM (19 km)] and the lower 5 RM [8 km] of all tributaries to this reach in Colbert and Lauderdale Cos., see 17.85(a)).	XN	709	NA	17.85(a)

Moccasinshell, Alabama.....	Medionidus acutissimus.	U.S.A. (AL, GA, MS)....	NA.....	T	495	17.95 (f)	NA
Moccasinshell, Coosa.....	Medionidus parvulus]...	U.S.A. (AL, GA, TN)....	NA.....	E	495	17.95 (f)	NA
Moccasinshell, Gulf.....	Medionidus penicillatus	U.S.A. (AL, FL, GA)....	Entire.....	E	633	NA	NA
Moccasinshell, Ochlockonee.....	Medionidus simpsonianus	U.S.A. (FL, GA).....	.....do.....	E	633	NA	NA
Monkeyface, Appalachian (pearlymussel).	Quadrula sparsa.....	U.S.A. (TN, VA).....	.....do.....	E	15	NA	NA
Monkeyface, Cumberland (pearlymussel).	Quadrula intermedia....	U.S.A. (AL, TN, VA)....	NA.....	E	15	NA	NA
Do.....	.....do.....	.....do.....	U.S.A. (AL_The free-flowing reach of the Tennessee R. from the base of Wilson Dam downstream to the backwaters of Pickwick Reservoir [about 12 RM (19 km)] and the lower 5 RM [8 km] of all tributaries to this reach in Colbert and Lauderdale Cos., see 17.85(a)).	XN	709	NA	17.85(a)
Mucket, orange-nacre.....	Lampsilis perovalis....	U.S.A. (AL, MS).....	NA.....	T	495	17.95 (f)	NA
Mucket, pink (pearlymussel).....	Lampsilis abrupta.....	U.S.A. (AL, AR, IL, IN, KY, LA, MO, OH, PA, TN, VA, WV).	Entire.....	E	15	NA	NA
Mussel, oyster.....	Epioblasma capsaeformis	U.S.A. (AL, GA, KY, NC, TN, VA).	NA.....	E	602	NA	NA
Do.....	.....do.....	.....do.....	U.S.A. (AL_The free-flowing reach of the Tennessee R. from the base of Wilson Dam downstream to the backwaters of Pickwick Reservoir [about 12 RM (19 km)] and the lower 5 RM [8 km] of all tributaries to this reach in Colbert and Lauderdale Cos., see 17.85(a)).	XN	709	NA	17.85(a)
Mussel, scaleshell.....	Leptodea leptodon.....	U.S.A. (AL, AR, IA, IL, IN, KY, MN, MO, OH, OK, SD, TN, WI).	NA.....	E	714	NA	NA
Pearlshell, Louisiana.....	Margaritifera hembeli..	U.S.A. (LA).....	Entire.....	T	304, 518	NA	NA
Pearlymussel, birdwing.....	Conradilla caelata.....	U.S.A. (AL, TN, VA)....	NA.....	E	15	NA	NA
Do.....	.....do.....	.....do.....	U.S.A. (AL_The free-flowing reach of the Tennessee R. from the base of Wilson Dam downstream to the backwaters of Pickwick Reservoir [about 12 RM (19 km)] and the lower 5 RM [8 km] of all tributaries to this reach in Colbert and Lauderdale Cos., see 17.85(a)).	XN	709	NA	17.85(a)
Pearlymussel, cracking.....	Hemistena lata.....	U.S.A. (AL, IL, IN, KY, OH, TN, VA).	NA.....	E	366	NA	NA
Do.....	.....do.....	.....do.....	U.S.A. (AL_The free-flowing reach of the Tennessee R. from the base of Wilson Dam downstream to the backwaters of Pickwick Reservoir [about 12 RM (19 km)] and the lower 5 RM [8 km] of all tributaries to this reach in Colbert and Lauderdale Cos., see 17.85(a)).	XN	709	NA	17.85(a)
Pearlymussel, Curtis.....	Epioblasma florentina curtisii.	U.S.A. (AR, MO).....	Entire.....	E	15	NA	NA
Pearlymussel, dromedary.....	Dromus dromas.....	U.S.A. (AL, KY, TN, VA)	NA.....	E	15	NA	NA
Do.....	.....do.....	.....do.....	U.S.A. (AL_The free-flowing reach of the Tennessee R. from the base of Wilson Dam downstream to the backwaters of Pickwick Reservoir [about 12 RM (19 km)] and the lower 5 RM [8 km] of all tributaries to this reach in Colbert and Lauderdale Cos., see 17.85(a)).	XN	709	NA	17.85(a)
Pearlymussel, little-wing.....	Pegias fabula.....	U.S.A. (AL, KY, NC, TN, VA).	Entire.....	E	342	NA	NA
Pearlymussel, Nicklin's.....	Megalonaias nicklineana	Mexico.....	.....do.....	E	15	NA	NA
Pearlymussel, Tampico.....	Cyrtonaias tampicoensis tecomatensis.	.....do.....	.....do.....	E	15	NA	NA
Pigtoe, Cumberland.....	Pleurobema gibberum....	U.S.A. (TN).....	.....do.....	E	423	NA	NA
Pigtoe, dark.....	Pleurobema furvum.....	U.S.A. (AL).....	NA.....	E	495	17.95 (f)	NA
Pigtoe, fine-rayed.....	Fusconaia cuneolus.....	U.S.A. (AL, TN, VA)....	NA.....	E	15	NA	NA
Do.....	.....do.....	.....do.....	U.S.A. (AL_The free-	XN	709	NA	17.85(a)

			flowing reach of the Tennessee R. from the base of Wilson Dam downstream to the backwaters of Pickwick Reservoir [about 12 RM (19 km)] and the lower 5 RM [8 km] of all tributaries to this reach in Colbert and Lauderdale Cos., see 17.85(a)).				
Pigtoe, flat	Pleurobema marshalli	U.S.A. (AL, MS)	Entire	E	262	NA	NA
Pigtoe, heavy	Pleurobema taitianum	....do	....do	E	262	NA	NA
Pigtoe, oval	Pleurobema pyriforme	U.S.A. (AL, FL, GA)	....do	E	633	NA	NA
Pigtoe, rough	Pleurobema plenum	U.S.A. (AL, IN, KY, PA, TN, VA).	....do	E	15	NA	NA
Pigtoe, shiny	Fusconaia cor	U.S.A. (AL, TN, VA)	NA	E	15	NA	NA
Do	....do	....do	U.S.A. (AL_The free-flowing reach of the Tennessee R. from the base of Wilson Dam downstream to the backwaters of Pickwick Reservoir [about 12 RM (19 km)] and the lower 5 RM [8 km] of all tributaries to this reach in Colbert and Lauderdale Cos., see 17.85(a)).	XN	709	NA	17.85(a)
Pigtoe, southern	Pleurobema georgianum	U.S.A. (AL, GA, TN)	NA	E	495	17.95 (f)	NA
Pimpleback, orangefoot (pearlymussel).	Plethobasus cooperianus	U.S.A. (AL, IA, IL, IN, KY, OH, PA, TN).	Entire	E	15	NA	NA
Pocketbook, fat	Potamilus capax	U.S.A. (AR, IA, IL, IN, KY, MO, MS, OH).	....do	E	15	NA	NA
Pocketbook, fine-lined	Lampsilis altilis	U.S.A. (AL, GA)	NA	T	495	17.95 (f)	NA
Rock-pocketbook, Ouachita	Arkansia wheeleri	U.S.A. (AR, OK)	Entire	E	446	NA	NA
Pocketbook, shinyrayed	Lampsilis subangulata	U.S.A. (AL, FL, GA)	....do	E	633	NA	NA
Pocketbook, speckled	Lampsilis streckeri	U.S.A. (AR)	....do	E	345	NA	NA
Rabbitsfoot, rough	Quadrula cylindrica strigillata.	U.S.A. (TN, VA)	....do	E	602	NA	NA
Riffleshell, northern	Epioblasma torulosa rangiana.	U.S.A. (IL, IN, KY, MI, OH, PA, WV), Canada (Ont.).	....do	E	488	NA	NA
Riffleshell, tan	Epioblasma florentina walkeri (=E. walkeri).	U.S.A. (AL, KY, NC, TN, VA).	....do	E	27	NA	NA
Pink, ring (mussel)	Obovaria retusa	U.S.A. (AL, IL, IN, KY, OH, PA, TN, WV).	....do	E	369	NA	NA
Slabshell, Chipola	Elliptio chipolaensis	U.S.A. (AL, FL)	....do	T	633	NA	NA
Spinymussel, James	Pleurobema collina	U.S.A. (VA, WV)	....do	E	316	NA	NA
Spinymussel, Tar River	Elliptio steinstansana.	U.S.A. (NC)	....do	E	188	NA	NA
Stirrupshell	Quadrula stapes	U.S.A. (AL, MS)	....do	E	262	NA	NA
Three-ridge, fat (mussel)	Amblema neislerii	U.S.A. (FL, GA)	....do	E	633	NA	NA
Wartyback, white (pearlymussel)	Plethobasus cicatricosus.	U.S.A. (AL, IL, IN, KY, TN).	....do	E	15	NA	NA
Wedgemussel, dwarf	Alasmidonta heterodon	U.S.A. (CT, DC, DE, MA, MD, NC, NH, NJ, NY, PA, VA, VT), Canada (N.B.).	....do	E	377	NA	NA
Snails							
Ambersnail, Kanab	Oxyloma haydeni kanabensis.	U.S.A. (AZ, UT)	....do	E	431E, 459, 477	NA	NA
Campeloma, slender	Campeloma decampi	U.S.A. (AL)	....do	E	688	NA	NA
Cavesnail, Tumbling Creek	Antrobia culveri	U.S.A. (MO)	NA	E	731	NA	NA
Elimia, lacy (snail)	Elimia crenatella	U.S.A.(AL)	Entire	T	651	NA	NA
Limpet, Banbury Springs	Lanx sp	U.S.A. (ID)	....do	E	485	NA	NA
Lioplax, cylindrical (snail)	Lioplax cyclostomaformis.	U.S.A. (AL, GA)	....do	E	651	NA	NA
Marstonia (snail), royal	Pyrgulopsis ogmorhaphe.	U.S.A. (TN)	....do	E	538	NA	NA
Pebblesnail, flat	Lepyrium showalteri	U.S.A. (AL)	....do	E	651	NA	NA
Riversnail, Anthony's	Athearnia anthonyi	U.S.A. (AL, GA, TN)	NA	E	538	NA	NA
Do	....do	....do	U.S.A. (AL_The free-flowing reach of the Tennessee R. from the base of Wilson Dam downstream to the backwaters of Pickwick Reservoir [about 12 RM (19 km)] and the lower 5 RM [8 km] of all tributaries to this reach in Colbert and Lauderdale Cos., see 17.85(a)).	XN	709	NA	17.85(a)
Rocksnail, painted	Leptoxis taeniata	U.S.A. (AL)	Entire	T	651	NA	NA
Rocksnail, plicate	Leptoxis plicata	....do	....do	E	651	NA	NA
Rocksnail, round	Leptoxis ampla	....do	....do	T	651	NA	NA
Shagreen, Magazine Mountain	Mesodon magazinensis	U.S.A. (AR)	....do	T	348	NA	NA
Snail, armored	Pyrgulopsis (=Marstonia) pachyta.	U.S.A. (AL)	....do	E	688	NA	NA
Snail, Bliss Rapids	Taylorconcha serpenticola.	U.S.A. (ID)	....do	T	485	NA	NA
Snail, Chittenango ovate amber	Succinea chittenangoensis.	U.S.A. (NY)	....do	T	41	NA	NA
Snail, flat-spired three-toothed	Triodopsis platysayoides.	U.S.A. (WV)	....do	T	41	NA	NA

Snail, Iowa Pleistocene	Discus macclintocki	U.S.A. (IA, IL)	do	E	41	NA	NA
Snail, Manus Island tree	Papustyla pulcherrima	Pacific Ocean_Admiralty Is. (Manus Is.).	do	E	3	NA	NA
Snail, Morro shoulderband (=Banded dune).	Helminthoglypta walkeriana.	U.S.A. (CA)	NA	E	567	17.95(f)	NA
Snail, Newcomb's	Erinna newcombi	U.S.A. (HI)	Entire	T	680	17.95(f)	N/A
Snail, noonday	Mesodon clarki nantahala.	U.S.A. (NC)	do	T	41	NA	NA
Snail, painted snake coiled forest	Anguispira picta	U.S.A. (TN)	do	T	41	NA	NA
Snail, Snake River physa	Physa natricina	U.S.A. (ID)	do	E	485	NA	NA
Snail, Stock Island tree	Orthalicus reses (not incl. nesodryas).	U.S.A. (FL)	do	T	41	NA	NA
Snail, tulotoma	Tulotoma magnifica	U.S.A. (AL)	do	E	412	NA	NA
Snail, Utah valvata	Valvata utahensis	U.S.A. (ID)	do	E	485	NA	NA
Snail, Virginia fringed mountain	Polygyriscus virginianus.	U.S.A. (VA)	do	E	41	NA	NA
Snails, Oahu tree	Achatinella spp	U.S.A. (HI)	do	E	108, 112	NA	NA
Springsnail, Alamosa	Tryonia alamosae	U.S.A. (NM)	do	E	442	NA	NA
Springsnail, Bruneau Hot	Pyrgulopsis bruneauensis.	U.S.A. (ID)	do	E	489	NA	NA
Springsnail, Idaho	Fontelicella idahoensis	do	do	E	485	NA	NA
Springsnail, Socorro	Pyrgulopsis neomexicana	U.S.A. (NM)	do	E	442	NA	NA
Insects							
Beetle, American burying	Nicrophorus americanus.	U.S.A. (eastern States south to FL, west to SD and TX), eastern Canada.	do	E	351	NA	NA
Beetle, Coffin Cave mold	Batrisodes texanus	U.S.A. (TX)	do	E	327, 513	NA	NA
Beetle, Comal Springs dryopid	Stygoparnus comalensis.	do	do	E	629	NA	NA
Beetle, Comal Springs riffle	Heterelmis comalensis	do	do	E	629	NA	NA
Beetle, delta green ground	Elaphrus viridis	U.S.A. (CA)	do	T	100	17.95(i)	NA
Beetle, Helotes mold	Batrisodes venyivi	U.S.A. (TX)	NA	E	706	17.95(i)	NA
Beetle, Hungerford's crawling water.	Brychius hungerfordi	U.S.A. (MI, Canada)	do	E	533	NA	NA
Beetle, Kretschmarr Cave mold	Texamaurops reddelli	U.S.A. (TX)	do	E	327, 513	NA	NA
Beetle, Mount Hermon June	Polyphylla barbata	U.S.A. (CA)	do	E	605	NA	NA
Beetle, [no common name]	Rhadine exilis	U.S.A. (TX)	NA	E	706	17.95(i)	NA
Beetle, [no common name]	Rhadine infernalis	U.S.A. (TX)	NA	E	706	17.95(i)	NA
Beetle, northeastern beach tiger	Cicindela dorsalis dorsalis.	U.S.A. (CT, MA, MD, NJ, NY, PA, RI, VA).	do	T	396	NA	NA
Beetle, Ohlone tiger	Cicindela ohlone (CA)	U.S.A. (CA)	NA	E	713	NA	NA
Beetle, Puritan tiger	Cicindela puritana	U.S.A. (CT, MA, MD, NH, VT).	Entire	T	396	NA	NA
Beetle, Tooth Cave ground	Rhadine persephone	U.S.A. (TX)	do	E	327	NA	NA
Beetle, valley elderberry longhorn	Desmocerus californicus dimorphus.	U.S.A. (CA)	do	T	99	17.95(i)	NA
Butterfly, bay checkerspot	Euphydryas editha bayensis.	do	do	T	288	17.95(i)	NA
Butterfly, Behren's silverspot	Speyeria zerene behrensii.	do	do	E	628	NA	NA
Butterfly, callippe silverspot	Speyeria callippe callippe.	do	do	E	628	NA	NA
Butterfly, Corsican swallowtail	Papilio hospiton	Corsica, Sardinia	do	E	486	NA	NA
Butterfly, El Segundo blue	Euphilotes battoides allyni.	U.S.A. (CA)	do	E	14	NA	NA
Butterfly, Fender's blue	Icaricia icarioides fenderi.	U.S.A. (OR)	do	E	679	NA	NA
Butterfly, Homerus swallowtail	Papilio homerus	Jamaica	do	E	486	NA	NA
Butterfly, Karner blue	Lycaeides melissa samuelis.	U.S.A. (IL, IN, MA, MI, MN, NH, NY, OH, PA, WI), Canada (Ont.).	do	E	484	NA	NA
Butterfly, Lange's metalmark	Apodemia mormo langei	U.S.A. (CA)	do	E	14	NA	NA
Butterfly, lotis blue	Lycaeides argyrognomon lotis.	do	do	E	14	NA	NA
Butterfly, Luzon peacock swallowtail	Papilio chikae	Philippines	do	E	486	NA	NA
Butterfly, mission blue	Icaricia icarioides missionensis.	U.S.A. (CA)	do	E	14	NA	NA
Butterfly, Mitchell's satyr	Neonympha mitchellii mitchellii.	U.S.A. (IN, MI, NJ, OH)	do	E	428E, 469	NA	NA
Butterfly, Myrtle's silverspot	Speyeria zerene myrtleae.	U.S.A. (CA)	do	E	472	NA	NA
Butterfly, Oregon silverspot	Speyeria zerene hippolyta.	U.S.A. (CA, OR, WA)	do	T	95	17.95(i)	NA
Butterfly, Palos Verdes blue	Glaucopsyche lygdamus palosverdesensis.	U.S.A. (CA)	do	E	96	17.95(i)	NA
Butterfly, Queen Alexandra's birdwing.	Troides alexandrae	Papua New Guinea	do	E	364	NA	NA
Butterfly, Quino checkerspot	Euphydryas edith quino.	U.S.A. (CA), Mexico	do	E	604	17.95(i)	NA
Butterfly, Saint Francis' satyr	Neonympha mitchellii francisci.	U.S.A. (NC)	do	E	539E, 574	NA	NA
Butterfly, San Bruno elfin	Callophrys mossii bayensis.	U.S.A. (CA)	do	E	14	NA	NA
Butterfly, Schaus swallowtail	Heraclides aristodemus ponceanus.	U.S.A. (FL)	do	E	13, 159	NA	NA
Butterfly, Smith's blue	Euphilotes enoptes smithi.	U.S.A. (CA)	do	E	14	NA	NA
Butterfly, Uncompahgre fritillary	Boloria acrocnema	U.S.A. (CO)	do	E	427	NA	NA
Dragonfly, Hine's emerald	Somatochlora hineana	U.S.A. (IL, IN, OH, WI)	do	E	573	NA	NA
Fly, Delhi Sands flower-loving	Rhaphiomidas terminatus abdominalis.	U.S.A. (CA)	do	E	517	NA	NA
Grasshopper, Zayante band-winged	Trimerotropis infantilis.	do	NA	E	605	17.95(i)	NA
Moth, Blackburn's sphinx	Manduca blackburni	U.S.A. (HI)	NA	E	682	17.95(I)	NA
Moth, Kern primrose sphinx	Euproserpinus euterpe	U.S.A. (CA)	do	T	91	NA	NA
Naucorid, Ash Meadows	Ambrysus amargosus	U.S.A. (NV)	do	T	181	17.95(i)	NA
Skipper, Carson wandering	Pseudocopaeodes eunus obscurus.	U.S.A. (CA, NV)	U.S.A., (Lassen County, CA; Washoe County, NV).	E	730	NA	NA
Skipper, Laguna Mountains	Pyrgus ruralis lagunae.	U.S.A. (CA)	Entire	E	604	NA	NA
Skipper, Pawnee montane	Hesperia leonardus	U.S.A. (CO)	do	T	289	NA	NA

	montana.						
Arachnids	.....	.....	.....	.....	.....	.....	.....
Harvestman, Bee Creek Cave	Texella reddelli	U.S.A. (TX)	do	E	327, 513	NA	NA
Harvestman, Bone Cave	Texella reyesi	do	do	E	327, 513	NA	NA
Harvestman, Cokendolpher cave	Texella cokendolpheri	U.S.A. (TX)	NA	E	706	17.95(g)	NA
Meshweaver, Braken Bat Cave	Circurina venii	U.S.A. (TX)	NA	E	706	17.95(g)	NA
Meshweaver, Government Canyon Bat Cave.	Circurina vespera	U.S.A. (TX)	NA	E	706	NA	NA
Meshweaver, Madla Cave	Cicurina madla	U.S.A. (TX)	NA	E	706	17.95(g)	NA
Meshweaver, Robber Baron Cave	Cicurina baronia	U.S.A. (TX)	NA	E	706	17.95(g)	NA
Pseudoscorpion, Tooth Cave	Tartarocreagris texana.	do	do	E	327	NA	NA
Spider, Government Canyon Bat Cave	Neoleptoneta microps	U.S.A. (TX)	NA	E	706	NA	NA
Spider, Kauai cave wolf	Adelocosa anops	U.S.A. (HI)	NA	E	676	17.95(g)	NA
Spider, spruce-fir moss	Microhexura montivaga	U.S.A. (NC, TN)	NA	E	576	17.95 (g)	NA
Spider, Tooth Cave	Neoleptoneta myopica	U.S.A. (TX)	Entire	E	327	NA	NA
Crustaceans	.....	.....	.....	.....	.....	.....	.....
Amphipod, Hay's Spring	Stygobromus hayi	U.S.A. (DC)	do	E	115	NA	NA
Amphipod, Illinois cave	Gammarus acherondytes	U.S.A. (IL)	do	E	642	NA	NA
Amphipod, Kauai cave	Spelaeorchestia koloana	U.S.A. (HI)	NA	E	676	17.95(h)	NA
Amphipod, Peck's cave	Stygobromus (=Stygonectes) pecki.	U.S.A. (TX)	Entire	E	629	NA	NA
Crayfish, cave	Cambarus aculabrum	U.S.A. (AR)	do	E	499	NA	NA
Do	Cambarus zophonastes	do	do	E	263	NA	NA
Crayfish, Nashville	Orconectes shoupi	U.S.A. (TN)	do	E	242	NA	NA
Crayfish, Shasta	Pacifastacus fortis	U.S.A. (CA)	do	E	337	NA	NA
Fairy shrimp, Conservancy	Branchinecta conservatio.	U.S.A. (CA)	Entire	E	552	17.95(h)	NA
Fairy shrimp, longhorn	Branchinecta longiantenna.	U.S.A. (CA)	Entire	E	552	17.95(h)	NA
Fairy shrimp, Riverside	Streptocephalus woottoni.	do	do	E	512	17.95(h)	NA
Fairy shrimp, San Diego	Branchinecta sandiegonensis.	do	NA	E	608	17.95(h)	NA
Fairy shrimp, vernal pool	Branchinecta lynchi	U.S.A. (CA, OR)	Entire	E	552	17.95(h)	NA
Isopod, Lee County cave	Lirceus usdagalun	U.S.A. (VA)	do	E	483	NA	NA
Isopod, Madison Cave	Antrolana lira	do	do	T	123	NA	17.46(a)
Isopod, Socorro	Thermosphaeroma thermophilus.	U.S.A. (NM)	do	E	36	NA	NA
Shrimp, Alabama cave	Palaemonias alabamae	U.S.A. (AL)	do	E	323	NA	NA
Shrimp, California freshwater	Syncaris pacifica	U.S.A. (CA)	do	E	340	NA	NA
Shrimp, Kentucky cave	Palaemonias ganteri	U.S.A. (KY)	do	E	135	17.95(h)	NA
Shrimp, Squirrel Chimney Cave	Palaemonetes cummingi	U.S.A. (FL)	do	T	390	NA	NA
Tadpole shrimp, vernal pool	Lepidurus packardi	U.S.A. (CA)	Entire	E	552	17.95(h)	NA

Symbols used in the four left columns:
`` Do...'' or ``.....do...'' _ (Ditto) indicates the entry is the same as the column entry directly above.
Symbols used in the ``When listed'' column:
A _ Indicates a correction to the publication with the same ``When listed'' number.
D _ Indicates FR where species was Delisted; relisting of the species is indicated by subsequent number(s).
E _ Indicated Emergency rule publication (see FR document for effective dates); subsequent number(s) indicate FR final rule, if applicable, under ``When listed''.

1—32 FR 4001; March 11, 1967.

2—35 FR 16047; October 13, 1970.

3—35 FR 8495; June 02, 1970.

4—35 FR 18320; December 02, 1970.

5—37 FR 6176; March 28, 1972.

6—38 FR 14678; June 04, 1973.

7—39 FR 44991; December 30, 1974.

8—40 FR 29864; July 16, 1975.

9—40 FR 31736; July 28, 1975.

10—40 FR 44151; September 25, 1975.

11—40 FR 44418; September 26, 1975.

12—40 FR 47506; October 09, 1975.

13—41 FR 17740; April 28, 1976.

14—41 FR 22044; June 01, 1976.

15—41 FR 24064; June 14, 1976.

15A—41 FR 26019; June 24, 1976.

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36—43 FR 12691; March 27, 1978.

37—43 FR 15429; April 13, 1978.

38—43 FR 16345; April 18, 1978.

40—43 FR 20504; May 12, 1978.

41—43 FR 28932; July 03, 1978.

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43—43 FR 34480; August 04, 1978.

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112—46 FR 40025; August 06, 1981.

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114—47 FR 4211; January 28, 1982.

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117—47 FR 19999; May 10, 1982.

119—47 FR 31672; July 21, 1982.

123—47 FR 43701; October 04, 1982.

124—47 FR 43962; October 05, 1982.

125—47 FR 46093; October 15, 1982.

127—48 FR 612; January 05, 1983.

128—48 FR 1726; January 14, 1983.

129—48 FR 28464; June 22, 1983.

130—48 FR 40184; September 02, 1983.

131—48 FR 43043; September 21, 1983.

132—48 FR 46057; October 11, 1983.

134—48 FR 46336; October 12, 1983.

135—48 FR 46341; October 12, 1983.

136—48 FR 49249; October 25, 1983.

138—49 FR 1994; January 17, 1984.

139—49 FR 2783; January 23, 1984.

142—49 FR 7335; February 28, 1984.

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149—49 FR 22330; May 29, 1984.

150—49 FR 27514; July 05, 1984.

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161—49 FR 35954; September 13, 1984.

163—49 FR 43069; October 26, 1984.

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166—49 FR 45163; November 15, 1984.

168—49 FR 49639; December 21, 1984.

169—50 FR 1056; January 09, 1985.

170—50 FR 4226; January 30, 1985.

171—50 FR 4945; February 04, 1985.

173—50 FR 12302; March 28, 1985.

174—50 FR 12305; March 28, 1985.

181—50 FR 20786; May 20, 1985.

182—50 FR 21792; May 28, 1985.

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184—50 FR 24530; June 11, 1985.

185—50 FR 24653; June 12, 1985.

186—50 FR 25678; June 20, 1985.

188—50 FR 26575; June 27, 1985.

189—50 FR 27002; July 01, 1985.

193—50 FR 30194; July 24, 1985.

195—50 FR 31596; August 05, 1985.

196—50 FR 31603; August 05, 1985.

203—50 FR 37198; September 12, 1985.

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216—51 FR 6690; February 25, 1986.

222—51 FR 10850; March 31, 1986.

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227—51 FR 16047; April 30, 1986.

228—51 FR 16482; May 02, 1986.

233—51 FR 17980; May 16, 1986.

236—51 FR 23781; July 01, 1986.

239—51 FR 27495; July 31, 1986.

241—51 FR 31422; September 03, 1986.

242—51 FR 34412; September 26, 1986.

246—51 FR 34425; September 26, 1986.

247—51 FR 39478; October 28, 1986.

248—51 FR 41796; November 19, 1986.

250—51 FR 45910; December 23, 1986.

251—52 FR 28; January 05, 1987.

258—52 FR 5302; February 20, 1987.

261—52 FR 10892; April 06, 1987.

262—52 FR 11169; April 07, 1987.

263—52 FR 11172; April 07, 1987.

265—52 FR 11286; April 08, 1987.

267—52 FR 20719; June 03, 1987.

268—52 FR 20999; June 03, 1987.

269—52 FR 21063; June 04, 1987.

272—52 FR 22430; June 11, 1987.

273—52 FR 22585; June 12, 1987.

278—52 FR 22943; June 16, 1987.

279—52 FR 23151; June 17, 1987.

280—52 FR 25232; July 06, 1987.

281—52 FR 25380; July 07, 1987.

282—52 FR 28785; August 03, 1987.

283—52 FR 28831; August 04, 1987.

284—52 FR 29780; August 11, 1987.

287—52 FR 35040; September 16, 1987.

288—52 FR 35378; September 18, 1987.

289—52 FR 36180; September 25, 1987.

290—52 FR 36038; September 25, 1987.

292—52 FR 36779; October 01, 1987.

294—52 FR 37423; October 06, 1987.

296—52 FR 42068; November 02, 1987.

299—52 FR 42662; November 06, 1987.

304—53 FR 3570; February 05, 1988.

312—53 FR 25611; July 08, 1988.

313—53 FR 27134; July 18, 1988.

316—53 FR 27693; July 22, 1988.

317—53 FR 29337; August 04, 1988.

320—53 FR 33992; September 01, 1988.

322—53 FR 33998; September 01, 1988.

323—53 FR 34698; September 07, 1988.

327—53 FR 36033; September 16, 1988.

328—53 FR 37970; September 28, 1988.

334—53 FR 38453; September 30, 1988.

336—53 FR 38460; September 30, 1988.

337—53 FR 38465; September 30, 1988.

338—53 FR 38469; September 30, 1988.

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342—53 FR 45865; November 14, 1988.

345—54 FR 8341; February 28, 1989.

348—54 FR 15208; April 17, 1989.

349—54 FR 20602; May 12, 1989.

350—54 FR 22906; May 30, 1989.

351—54 FR 29655; July 13, 1989.

357—54 FR 32331; August 04, 1989.

358—54 FR 34468; August 18, 1989.

359—54 FR 34472; August 18, 1989.

361—54 FR 35311; August 24, 1989.

364—54 FR 38951; September 21, 1989.

365—54 FR 39849; September 28, 1989.

366—54 FR 39853; September 28, 1989.

369—54 FR 40112; September 29, 1989.

370—54 FR 41453; October 10, 1989.

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372—54 FR 47861; November 17, 1989.

376—55 FR 9136; March 12, 1990.

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378—55 FR 12191; April 02, 1990.

382—55 FR 12801; April 05, 1990.

383—55 FR 12832; April 06, 1990.

384—55 FR 13488; April 10, 1990.

387—55 FR 18845; May 04, 1990.

388—55 FR 21153; May 22, 1990.

390—55 FR 25591; June 21, 1990.

391—55 FR 25595; June 21, 1990.

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394—55 FR 28213; July 10, 1990.

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400—55 FR 39416; September 27, 1990.

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407—55 FR 49623; November 30, 1990.

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411—55 FR 53160; December 27, 1990.

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415—56 FR 1459; January 14, 1991.

416—56 FR 1463; January 14, 1991.

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426—56 FR 28349; June 20, 1991.

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428—56 FR 28828; June 25, 1991.

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432—56 FR 40267; August 14, 1991.

433—56 FR 41488; August 21, 1991.

442—56 FR 49649; September 30, 1991.

443—56 FR 49653; September 30, 1991.

444—56 FR 49658; September 30, 1991.

446—56 FR 54957; October 23, 1991.

447—56 FR 54967; October 23, 1991.

449—56 FR 56333; November 04, 1991.

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459—57 FR 13661; April 17, 1992.

462—57 FR 14790; April 22, 1992.

469—57 FR 21569; May 20, 1992.

472—57 FR 27858; June 22, 1992.

475—57 FR 28024; June 23, 1992.

477—57 FR 44340; September 25, 1992.

479—57 FR 45337; October 01, 1992.

483—57 FR 54726; November 20, 1992.

484—57 FR 59244; December 14, 1992.

485—57 FR 59257; December 14, 1992.

486—58 FR 4359; January 14, 1993.

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488—58 FR 5642; January 22, 1993.

489—58 FR 5946; January 25, 1993.

492—58 FR 12863; March 05, 1993.

493—58 FR 12874; March 05, 1993.

494—58 FR 14271; March 16, 1993.

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496—58 FR 16757; March 30, 1993.

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588—61 FR 48413; September 13, 1996.

597—61 FR 54056; October 16, 1996.

598—61 FR 59028; November 20, 1996.

600—62 FR 689; January 06, 1997.

602—62 FR 1657; January 10, 1997.

604—62 FR 2322; January 16, 1997.

605—62 FR 3628; January 24, 1997.

607—62 FR 4191; January 29, 1997.

608—62 FR 4939; February 03, 1997.

610—62 FR 10746; March 10, 1997.

612—62 FR 23392; April 30, 1997.

614—62 FR 30772; June 05, 1997.

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618—62 FR 33038; June 18, 1997.

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628—62 FR 64320; December 05, 1997.

629—62 FR 66303; December 18, 1997.

630—63 FR 694; January 07, 1998.

631—63 FR 1763; January 12, 1998.

632—63 FR 3843; January 27, 1998.

633—63 FR 12687; March 16, 1998.

634—63 FR 13150; March 18, 1998.

636—63 FR 26530; May 13, 1998.

637—63 FR 31674; June 10, 1998.

638—63 FR 32997; June 17, 1998.

639—63 FR 42762; August 11, 1998.

642—63 FR 46909; September 03, 1998.

645—63 FR 51016; September 24, 1998.

646—63 FR 52837; October 01, 1998.

651—63 FR 57619; October 28, 1998.

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654—63 FR 69021; December 15, 1998.

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656—64 FR 5981; February 08, 1999.

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660—64 FR 19308; April 20, 1999.

664—64 FR 41836; August 02, 1999.

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676—65 FR 2357; January 14, 2000.

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682—65 FR 4779; February 01, 2000.

687—65 FR 8889; February 23, 2000.

688—65 FR 10039; February 25, 2000.

692—65 FR 16085; March 24, 2000.

693—65 FR 17786; April 05, 2000.

694—65 FR 19698; April 12, 2000.

695—65 FR 25879; May 04, 2000.

696—65 FR 20769; April 18, 2000.

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713—66 FR 50350; October 3, 2001.

714—66 FR 51339; October 9, 2001.

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730—67 FR 51129; August 7, 2002.

731—67 FR 52889; August 14, 2002.

732—67 FR 52426; August 12, 2002.

733—68 FR 46756, August 6, 2003.

Editorial Note 1: For Federal Register citations affecting the table in §17.11(h), see the listing above.

Editorial Note 2: For Federal Register citations affecting §17.11, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and on GPO Access.

§ 17.12 Endangered and threatened plants.

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(a) The list in this section contains the names of all species of plants which have been determined by the Services to be Endangered or Threatened. It also contains the names of species of plants treated as Endangered or Threatened because they are sufficiently similar in appearance to Endangered or Threatened species (see §17.50 *et seq.*).

(b) The columns entitled “Scientific name” and “Common name” define the species of plant within the meaning of the Act. Although common names are included, they cannot be relied upon for identification of any specimen, since they may vary greatly in local usage. The Services shall use the most recently accepted scientific name. In cases in which confusion might arise, a synonym(s) will be provided in parentheses. The Services shall rely to the extent practicable on the *International Code of Botanical Nomenclature*.

(c) In the “Status” column the following symbols are used: “E” for Endangered, “T” for Threatened, and “E [or T] (S/A)” for similarity of appearance species.

(d) The other data in the list are nonregulatory in nature and are provided for the information of the reader. In the annual revision and compilation of this title, the following information may be amended without public notice: the spelling of species' names, historical range, footnotes, references to certain other applicable portions of this title, synonyms, and more current names. In any of these revised entries, neither the species, as defined in paragraph (b) of this section, nor its status may be changed without following the procedures of part 424 of this title.

(e) The “Historic range” indicates the known general distribution of the species or subspecies as reported in the current scientific literature. The present distribution may be greatly reduced from this historic range. This column does not imply any limitation on the application of the prohibitions in the Act or implementing rules. Such prohibitions apply to all individuals of the plant species, wherever found.

(f)(1) A footnote to the Federal Register publication(s) listing or reclassifying a species is indicated under the column “When listed.” Footnote numbers to §§17.11 and 17.12 are in the same numerical sequence, since plants and animals may be listed in the same Federal Register document. That document, at least since 1973, includes a statement indicating the basis for the listing, as well as the effective date(s) of said listing.

(2) The “Special rules” and “Critical habitat” columns provide a cross reference to other sections in parts 17, 222, 226, or 227. The “Special rules” column will also be used to cite the special rules which describe experimental populations and determine if they are essential or nonessential. Separate listings will be made for experimental populations, and the status column will include the following symbols: “XE” for an essential experimental population and “XN” for a nonessential experimental population. The term “NA” (not applicable) appearing in either of these two columns indicates that there are no special rules and/or critical habitat for that particular species. However, all other appropriate rules in parts 17, 217 through 227, and 402 still apply to that species. In addition, there may be other rules in this title that relate to such plants, e.g., port-of-entry requirements. It is not intended that the references in the “Special rules” column list all the regulations of the two Services which might apply to the species or to the regulations of other Federal agencies or State or local governments.

(g) The listing of a particular taxon includes all lower taxonomic units (see §17.11(g) for examples).

(h) The “List of Endangered and Threatened Plants” is provided below:

Species		Historic range	Family	Status	When listed	Critical habitat	Special rules
Scientific name	Common name						
Flowering Plants							
Abronia macrocarpa	Large-fruited sand-verbena.	U.S.A. (TX)	Nyctaginaceae	E	331	NA	NA
Abutilon eremitopetalum	None	U.S.A. (HI)	Malvaceae	E	435	NA	NA
Abutilon menziesii	Ko`oloa`ula	do	do	E	243	NA	NA
Abutilon sandwicense	None	do	do	E	448	17.99(i)	NA
Acaena exigua	Liliwai	do	Rosaceae	E	467	NA	NA
Acanthomintha ilicifolia	San Diego thornmint	U.S.A. (CA), Mexico	Lamiaceae	T	649	NA	NA
Acanthomintha obovata ssp. duttonii	San Mateo thornmint	U.S.A. (CA)	do	E	204	NA	NA
Achyranthes mutica	None	U.S.A (HI)	Amaranthaceae	E	592	17.99(k)	NA
Achyranthes splendens var. rotundata	Round-leaved chaff-flower.	do	do	E	220	NA	NA
Aconitum noveboracense	Northern wild monkshood	U.S.A. (IA, NY, OH, WI)	Ranunculaceae	T	39	NA	NA

Aeschynomene virginica	Sensitive joint-vetch	U.S.A. (DE, MD, NC, NJ, PA, VA).	Fabaceae	T	470	NA	NA
Agalinis acuta	Sandplain gerardia	U.S.A. (CT, MA, MD, NY, RI).	Scrophulariaceae	E	325	NA	NA
Agave arizonica	Arizona agave	U.S.A. (AZ)	Agavaceae	E	147	NA	NA
Alectryon macrococcus	Mahoe	U.S.A. (HI)	Sapindaceae	E	467	17.99(a)(1), (c), (e)(1), and (i)	NA
Allium munzii	Munz's onion	U.S.A. (CA)	Liliaceae	E	650	NA	NA
Alopecurus aequalis var. sonomensis	Sonoma alopecurus	do	Poaceae	E	625	NA	NA
Alsinidendron lychnoides	Kuawawaenohu	U.S.A. (HI)	Caryophyllaceae	E	590	17.99(a)(1)	NA
Alsinidendron obovatum	None	do	do	E	448	17.99(i)	NA
Alsinidendron trinerve	do	do	do	E	448	17.99(i)	NA
Alsinidendron viscosum	do	do	do	E	590	17.99(a)(1)	NA
Amaranthus brownii	do	do	Amaranthaceae	E	587	17.99(g)	NA
Amaranthus pumilus	Seabeach amaranth	U.S.A. (DE, MA, MD, NC, NJ, NY, RI, SC, VA).	do	T	498	NA	NA
Ambrosia cheiranthifolia	South Texas ambrosia	U.S.A. (TX)	Asteraceae	E	547	NA	NA
Ambrosia pumila	San Diego ambrosia	U.S.A. (CA) Mexico	do	E	727	NA	NA
Amorpha crenulata	Crenulate lead-plant	U.S.A. (FL)	Fabaceae	E	192	NA	NA
Amphianthus pusillus	Little amphianthus	U.S.A. (AL, GA, SC)	Scrophulariaceae	T	302	NA	NA
Amsinckia grandiflora	Large-flowered fiddleneck.	U.S.A. (CA)	Boraginaceae	E	179	17.96(a)	NA
Amsonia kearneyana	Kearney's blue-star	U.S.A. (AZ)	Apocynaceae	E	343	NA	NA
Ancistrocactus tobuschii	Tobusch fishhook cactus	U.S.A. (TX)	Cactaceae	E	80	NA	NA
Apios priceana	Price's potato-bean	U.S.A. (AL, IL, KY, MS, TN).	Fabaceae	T	373	NA	NA
Arabis hoffmannii	Hoffmann's rock-cress	U.S.A. (CA)	Brassicaceae	E	623	NA	NA
Arabis mcdonaldiana	McDonald's rock-cress	do	do	E	44	NA	NA
Arabis perstellata	Braun's Rock-cress	U.S.A. (KY, TN)	do	E	570	17.96(a)	NA
Arabis serotina	Shale barren rock-cress	U.S.A. (VA, WV)	do	E	352	NA	NA
Arctomecon humilis	Dwarf bear-poppy	U.S.A. (UT)	Papaveraceae	E	78	NA	NA
Arctostaphylos confertiflora	Santa Rosa Island manzanita.	U.S.A. (CA)	Ericaceae	E	623	NA	NA
Arctostaphylos glandulosa ssp. crassifolia.	Del Mar manzanita	U.S.A. (CA), Mexico	do	E	589	NA	NA
Arctostaphylos hookeri var. ravenii	Presidio manzanita	U.S.A. (CA)	do	E	65	NA	NA
Arctostaphylos morroensis	Morro manzanita	do	do	T	567	NA	NA
Arctostaphylos myrtifolia	Ione manzanita	do	do	T	661	NA	NA
Arctostaphylos pallida	Pallid manzanita	do	do	T	635	NA	NA
Arenaria cumberlandensis	Cumberland sandwort	U.S.A. (KY, TN)	Caryophyllaceae	E	311	NA	NA
Arenaria paludicola	Marsh sandwort	U.S.A. (CA,OR,WA)	do	E	511	NA	NA
Arenaria ursina	Bear Valley sandwort	U.S.A. (CA)	do	T	644	NA	NA
Argemone pleiacantha ssp. pinnatisecta.	Sacramento prickly-poppy.	U.S.A. (NM)	Papaveraceae	E	360	NA	NA
Argyroxiphium kauense	Mauna Loa silversword	U.S.A. (HI)	Asteraceae	E	497	17.99(k)	NA
Argyroxiphium sandwicense ssp. macrocephalum.	`Ahinahina	do	do	T	467	17.99(e)(1)	NA
Argyroxiphium sandwicense ssp. sandwicense.	`Ahinahina	do	do	E	219	NA	NA
Aristida chaseae	None	U.S.A. (PR)	Poaceae	E	501	NA	NA
Aristida portoricensis	Pelos del diablo	do	do	E	398	NA	NA
Asclepias meadii	Mead's milkweed	U.S.A. (IA, IL, IN, KS, MO, WI).	Asclepiadaceae	T	321	NA	NA
Asclepias welshii	Welsh's milkweed	U.S.A. (AZ, UT)	do	T	295	17.96(a)	NA
Asimina tetramera	Four-petal pawpaw	U.S.A. (FL)	Annonaceae	E	244	NA	NA
Astragalus albens	Cushenbury milk-vetch	U.S.A. (CA)	Fabaceae	E	548	17.96(a)	NA
Astragalus ampullarioides	Shivwits milk-vetch	U.S.A. (UT)	do	E	711	NA	NA
Astragalus applegatei	Applegate's milk-vetch.	U.S.A. (OR)	do	E	510	NA	NA
Astragalus bibullatus	Guthrie's (=Pyne's) ground-plum.	U.S.A. (TN)	do	E	437	NA	NA
Astragalus brauntonii	Braunton's milk-vetch	U.S.A. (CA)	do	E	606	NA	NA
Astragalus clarianus	Clara Hunt's milk-vetch	do	do	E	625	NA	NA
Astragalus cremnophylax var. cremnophylax.	Sentry milk-vetch	U.S.A. (AZ)	do	E	409	NA	NA
Astragalus desereticus	Deseret milk-vetch	U.S.A. (UT)	do	T	668	NA	NA
Astragalus holmgreniorum	Holmgren milk-vetch	U.S.A. (AZ, UT)	do	E	711	NA	NA
Astragalus humillimus	Mancos milk-vetch	U.S.A. (CO, NM)	do	E	187	NA	NA
Astragalus jaegerianus	Lane Mountain milk-vetch.	U.S.A. (CA)	do	E	647	NA	NA
Astragalus lentiginosus var. coachellae.	Coachella Valley milk-vetch.	do	do	E	647	NA	NA
Astragalus lentiginosus var. piscinensis.	Fish Slough milk-vetch.	do	do	T	647	NA	NA
Astragalaus magdalenae var. peirsonii	Peirson's milk-vetch	U.S.A. (CA)	Fabaceae_Pea	T	647	17.96(a)	NA
Astragalus montii	Heliotrope milk-vetch	U.S.A. (UT)	Fabaceae	T	298	17.96(a)	NA
Astragalus osterhoutii	Osterhout milk-vetch	U.S.A. (CO)	do	E	353	NA	NA
Astragalus phoenix	Ash Meadows milk-vetch.	U.S.A. (NV)	do	T	181	17.96(a)	NA
Astragalus pycnostachyus var. lanosissimus.	Ventura Marsh milk-vetch.	U.S.A. (CA)	Fabaceae_Pea Family	E	708	17.96(a)	NA
Astragalus robbinsii var. jesupi	Jesup's milk-vetch	U.S.A. (NH, VT)	Fabaceae	E	271	NA	NA
Astragalus tener var. titi	Coastal dunes milk-vetch.	U.S.A. (CA)	do	E	640	NA	NA
Astragalus tricarinatus	Triple-ribbed milk-vetch.	do	do	E	647	NA	NA
Astrophytum asterias	Star cactus	U.S.A. (TX), Mexico	Cactaceae	E	521	NA	NA
Atriplex coronata var. notatior	San Jacinto Valley crownscale.	U.S.A. (CA)	Chenopodiaceae	E	650	NA	NA
Auerodendron pauciflorum	None	U.S.A. (PR)	Rhamnaceae	E	531	NA	NA
Ayenia limitaris	Texas ayenia	U.S.A. (TX), Mexico	Sterculiaceae	E	547	NA	NA
Baccharis vanessae	Encinitas baccharis	U.S.A. (CA)	Asteraceae	T	589	NA	NA
Banara vanderbiltii	Palo de Ramon	U.S.A. (PR)	Flacourtiaceae	E	255	NA	NA
Baptisia arachnifera	Hairy rattleweed	U.S.A. (GA)	Fabaceae	E	39	NA	NA
Berberis nevinii	Nevin's barberry	U.S.A. (CA)	Berberidaceae	E	648	NA	NA

Berberis pinnata ssp. insularis.....	Island barberry.....	.....do.....	.....do.....	E	623	NA	NA
Betula uber.....	Virginia round-leaf birch.	U.S.A. (VA).....	Betulaceae.....	T	39, 560	NA	NA
Bidens micrantha ssp. kalealaha.....	Kookoolau.....	U.S.A. (HI).....	Asteraceae.....	E	467	17.96(b) and 17.99(e)(1)	NA
Bidens wiebkei.....	.....do.....	.....do.....	.....do.....	E	480	17.99(c)	NA
Blennosperma bakeri.....	Sonoma sunshine.....	U.S.A. (CA).....	.....do.....	E	453	NA	NA
Boltonia decurrens.....	Decurrent false aster..	U.S.A. (IL, MO).....	.....do.....	T	341	NA	NA
Bonamia grandiflora.....	Florida bonamia.....	U.S.A. (FL).....	Convolvulaceae.....	T	297	NA	NA
Bonamia menziesii.....	None.....	U.S.A. (HI).....	.....do.....	E	559	17.99(a)(1), (e)(1), (i), and (k)	NA
Brighamia insignis.....	Olulu.....	.....do.....	Campanulaceae.....	E	530	17.99(a)(1) and (a)(2)	NA
Brighamia rockii.....	Pua ala.....	.....do.....	.....do.....	E	480	17.99(c) and (e)(1)	NA
Brodiaea filifolia.....	Thread-leaved brodiaea.	U.S.A. (CA).....	Liliaceae.....	T	650	NA	NA
Brodiaea pallida.....	Chinese Camp brodiaea..	.....do.....	.....do.....	T	643	NA	NA
Buxus vahlii.....	Vahl's boxwood.....	U.S.A. (PR, VI).....	Buxaceae.....	E	197	NA	NA
Caesalpinia kavaiense.....	Uhiuhi.....	U.S.A. (HI).....	Fabaceae.....	E	238	NA	NA
Callicarpa ampla.....	Capa rosa.....	U.S.A. (PR).....	Verbenaceae.....	E	461	NA	NA
Callirhoe scabriuscula.....	Texas poppy-mallow.....	U.S.A. (TX).....	Malvaceae.....	E	109, 112	NA	NA
Calochortus tiburonensis.....	Tiburon mariposa lily..	U.S.A. (CA).....	Liliaceae.....	T	575	NA	NA
Calyptranthes thomasiana.....	None.....	U.S.A. (PR, VI)British VI.	Myrtaceae.....	E	529	NA	NA
Calyptridium pulchellum.....	Mariposa pussypaws.....	U.S.A. (CA).....	Portulacaceae.....	T	643	NA	NA
Calyptronoma rivalis.....	Palma de manaca.....	U.S.A. (PR).....	Arecaceae.....	T	375	NA	NA
Calystegia stebbinsii.....	Stebbins' morning-glory	U.S.A. (CA).....	Convolvulaceae.....	E	596	NA	NA
Camissonia benitensis.....	San Benito evening-primrose.	.....do.....	Onagraceae.....	T	172	NA	NA
Campanula robinsiae.....	Brooksville bellflower.	U.S.A. (FL).....	Campanulaceae.....	E	356	NA	NA
Canavalia molokaiensis.....	Awikiwiki.....	U.S.A. (HI).....	Fabaceae.....	E	480	17.99(c)	NA
Cardamine micranthera.....	Small-anthered bittercress.	U.S.A. (NC, VA).....	Brassicaceae.....	E	363	NA	NA
Carex albida.....	White sedge.....	U.S.A. (CA).....	Cyperaceae.....	E	625	NA	NA
Carex lutea.....	Golden sedge.....	U.S.A. (NC).....	.....do.....	E	721	NA	NA
Carex specuicola.....	Navajo sedge.....	U.S.A. (AZ, UT).....	.....do.....	T	178	17.96(a)	NA
Castilleja affinis ssp. neglecta.....	Tiburon paintbrush.....	U.S.A. (CA).....	Scrophulariaceae.....	E	575	NA	NA
Castilleja campestris ssp. succulenta	Fleshy owl's-clover....	U.S.A. (CA).....	Scrophulariaceae.....	T	611	17.96(a)	NA
Castilleja cinerea.....	Ash-gray Indian paintbrush.	.....do.....	.....do.....	T	643	NA	NA
Castilleja grisea.....	San Clemente Island Indian paintbrush.	.....do.....	.....do.....	E	26	NA	NA
Castilleja levisecta.....	Golden paintbrush.....	U.S.A. (OR, WA), Canada (B.C.).	.....do.....	T	615	NA	NA
Castilleja mollis.....	Soft-leaved paintbrush.	U.S.A. (CA).....	.....do.....	E	623	NA	NA
Catesbaea melanocarpa.....	None.....	U.S.A. (PR, VI), Antigua, Barbuda, Guadalupe.	Rubiaceae.....	E	657	NA	NA
Caulanthus californicus.....	California jewelflower.	U.S.A. (CA).....	Brassicaceae.....	E	395	NA	NA
Ceanothus ferrisae.....	Coyote ceanothus.....	.....do.....	Rhamnaceae.....	E	575	NA	NA
Ceanothus ophiochilus.....	Vail Lake ceanothus....	.....do.....	.....do.....	T	648	NA	NA
Ceanothus roderickii.....	Pine Hill ceanothus....	.....do.....	.....do.....	E	596	NA	NA
Cenchrus agrimonioides.....	Kamanomano.....	U.S.A. (HI).....	Poaceae.....	E	592	17.99(e)(1) and (i)	NA
Centaurium namophilum.....	Spring-loving centaury.	U.S.A. (CA, NV).....	Gentianaceae.....	T	181	17.96(a)	NA
Centaurium sebaeoides.....	Awiwi.....	U.S.A. (HI).....	.....do.....	E	448	17.99(a)(1), (c), (e)(1), and (i)	NA
Cercocarpus traskiae.....	Catalina Island mountain-mahogany.	U.S.A. (CA).....	Rosaceae.....	E	624	NA	NA
Cereus eriophorus var. fragrans.....	Fragrant prickly-apple.	U.S.A. (FL).....	Cactaceae.....	E	208	NA	NA
Chamaecrista glandulosa var. mirabilis .	None.....	U.S.A. (PR).....	Fabaceae.....	E	379	NA	NA
Chamaesyce celastroides var. kaenana.	Akoko.....	U.S.A. (HI).....	Euphorbiaceae.....	E	448	17.99(i)	NA
Chamaesyce deltoidea ssp. deltoidea..	Deltoid spurge.....	U.S.A. (FL).....	.....do.....	E	192	NA	NA
Chamaesyce deppeana.....	Akoko.....	U.S.A. (HI).....	.....do.....	E	536	17.99(i)	NA
Chamaesyce garberi.....	Garber's spurge.....	U.S.A. (FL).....	.....do.....	T	192	NA	NA
Chamaesyce halemanui.....	None.....	U.S.A. (HI).....	.....do.....	E	464	17.99(a)(1)	NA
Chamaesyce herbstii.....	Akoko.....	.....do.....	.....do.....	E	591	17.99(i)	NA
Chamaesyce hooveri.....	Hoover's spurge.....	U.S.A. (CA).....	Euphorbiaceae.....	T	611	17.96(a)	NA
Chamaesyce kuwaleana.....	Akoko.....	U.S.A. (HI).....	.....do.....	E	448	17.99(i)	NA
Chamaesyce rockii.....	.....do.....	.....do.....	.....do.....	E	591	17.99(i)	NA
Chamaesyce skottsbergii var. kalaeloana.	`Ewa Plains `akoko.....	.....do.....	.....do.....	E	120	NA	NA
Chionanthus pygmaeus.....	Pygmy fringe-tree.....	U.S.A. (FL).....	Oleaceae.....	E	256	NA	NA
Chlorogalum purpureum.....	Purple amole (Camatta Canyon amole).	U.S.A. (CA).....	Liliaceae_Lily.....	T	689	17.96(a)	NA
Chorizanthe howellii.....	Howell's spineflower...	.....do.....	Polygonaceae.....	E	472	NA	NA
Chorizanthe orcuttiana.....	Orcutt's spineflower...	.....do.....	.....do.....	E	589	NA	NA
Chorizanthe pungens var. hartwegiana.	Ben Lomond spineflower.	.....do.....	.....do.....	E	528	NA	NA
Chorizanthe pungens var. pungens.....	Monterey Spineflower...	.....do.....	Polygonaceae_Buckwheat.	T	528	17.96(a)	NA
Chorizanthe robusta var. hartwegii...	Scotts Valley spineflower.	.....do.....	.....do.....	E	528	17.96(a)	NA
Chorizanthe robusta var. robusta.....	Robust Spineflower.....	.....do.....	.....do.....	E	528	17.96(b)	NA
Chorizanthe valida.....	Sonoma spineflower.....	.....do.....	Polygonaceae.....	E	472	NA	NA
Chrysopsis floridana.....	Florida golden aster...	U.S.A. (FL).....	Asteraceae.....	E	232	NA	NA

Cirsium fontinale var. fontinale.....	Fountain thistle.....	U.S.A. (CA).....	.....do.....	E	575	NA	NA
Cirsium fontinale var. obispoense....	Chorro Creek bog thistle.	.....do.....	.....do.....	E	567	NA	NA
Cirsium hydrophilum var. hydrophilum.	Suisun thistle.....	.....do.....	.....do.....	E	627	NA	NA
Cirsium loncholepis.....	La Graciosa thistle....	.....do.....	Asteraceae-sunflower...	E	691	17.96(a)	NA
Cirsium pitcheri.....	Pitcher's thistle.....	U.S.A. (IL, IN, MI, WI), Canada (Ont.).	Asteraceae.....	T	315	NA	NA
Cirsium vinaceum.....	Sacramento Mountains thistle.	U.S.A. (NM).....	.....do.....	T	276	NA	NA
Clarkia franciscana.....	Presidio clarkia.....	U.S.A. (CA).....	Onagraceae.....	E	575	NA	NA
Clarkia imbricata.....	Vine Hill clarkia.....	.....do.....	.....do.....	E	625	NA	NA
Clarkia speciosa ssp. immaculata.....	Pismo clarkia.....	.....do.....	.....do.....	E	567	NA	NA
Clarkia springvillensis.....	Springville clarkia....	.....do.....	.....do.....	T	643	NA	NA
Clematis morefieldii.....	Morefield's leather-flower.	U.S.A. (AL).....	Ranunculaceae.....	E	468	NA	NA
Clematis socialis.....	Alabama leather-flower.	.....do.....	.....do.....	E	245	NA	NA
Clermontia drepanomorpha.....	Oha wai.....	U.S.A. (HI).....	Campanulaceae.....	E	595	17.99(k)	NA
Clermontia lindseyana.....	.....do.....	.....do.....	.....do.....	E	532	17.99(e) (1) and (k)	NA
Clermontia oblongifolia ssp. brevipes	Oha wai.....	.....do.....	.....do.....	E	480	17.99(c)	NA
Clermontia oblongifolia ssp. mauiensis	.....do.....	.....do.....	.....do.....	E	467	17.99(e) (1)	NA
Clermontia peleana.....	.....do.....	.....do.....	.....do.....	E	532	17.99(k)	NA
Clermontia pyrularia.....	.....do.....	.....do.....	.....do.....	E	532	17.99(k)	NA
Clermontia samuelii.....	.....do.....	.....do.....	.....do.....	E	666	17.99(e) (1)	NA
Clitoria fragrans.....	Pigeon wings.....	U.S.A. (FL).....	Fabaceae.....	T	500	NA	NA
Colubrina oppositifolia.....	Kauila.....	U.S.A. (HI).....	Rhamnaceae.....	E	532	17.99(e) (1), (i), and (k)	NA
Conradina brevifolia.....	Short-leaved rosemary..	U.S.A. (FL).....	Lamiaceae.....	E	507	NA	NA
Conradina etonia.....	Etonia rosemary.....	.....do.....	.....do.....	E	507	NA	NA
Conradina glabra.....	Apalachicola rosemary..	.....do.....	.....do.....	E	507	NA	NA
Conradina verticillata.....	Cumberland rosemary....	U.S.A. (KY, TN).....	.....do.....	T	452	NA	NA
Cordia bellonis.....	None.....	U.S.A. (PR).....	Boraginaceae.....	E	601	NA	NA
Cordylanthus maritimus ssp. maritimus	Salt marsh bird's-beak.	U.S.A. (CA), Mexico (Baja California).	Scrophulariaceae.....	E	44	NA	NA
Cordylanthus mollis ssp. mollis.....	Soft bird's-beak.....	U.S.A. (CA).....	.....do.....	E	627	NA	NA
Cordylanthus palmatus.....	Palmate-bracted bird's-beak.	.....do.....	.....do.....	E	235	NA	NA
Cordylanthus tenuis ssp. capillaris..	Pennell's bird's-beak..	.....do.....	.....do.....	E	575	NA	NA
Cornutia obovata.....	Palo de nigua.....	U.S.A. (PR).....	Verbenaceae.....	E	307	NA	NA
Coryphantha minima	Nellie cory cactus.....	U.S.A. (TX).....	Cactaceae.....	E	81	NA	NA
Coryphantha ramillosa.....	Bunched cory cactus....	U.S.A. (TX), Mexico (Coahuila).	.....do.....	T	77	NA	NA
Coryphantha robbinsorum.....	Cochise pincushion cactus.	U.S.A. (AZ), Mexico (Sonora).	.....do.....	T	214	NA	NA
Coryphantha scheeri var. robustispina	Pima pineapple cactus..	.....do.....	.....do.....	E	515	NA	NA
Coryphantha sneedii var. leei.....	Lee pincushion cactus..	U.S.A. (NM).....	.....do.....	T	61	NA	NA
Coryphantha sneedii var. sneedii.....	Sneed pincushion cactus	U.S.A. (NM, TX).....	.....do.....	E	82	NA	NA
Cranichis ricartii.....	None.....	U.S.A. (PR).....	Orchidaceae.....	E	451	NA	NA
Crescentia portoricensis.....	Higuero de Sierra.....	.....do.....	Bignoniaceae.....	E	301	NA	NA
Crotalaria avonensis.....	Avon Park harebells....	U.S.A. (FL).....	Fabaceae.....	E	500	NA	NA
Cryptantha crassipes.....	Terlingua Creek cats-eye.	U.S.A. (TX).....	Boraginaceae.....	E	439	NA	NA
Cucurbita okeechobeensis ssp. okeechobeensis.	Okeechobee gourd.....	U.S.A. (FL).....	Cucurbitaceae.....	E	507	NA	NA
Cyanea acuminata.....	HaHa.....	U.S.A. (HI).....	Campanulaceae.....	E	591	17.99(i)	NA
Cyanea asarifolia.....	.....do.....	.....do.....	.....do.....	E	530	17.99(a) (1)	NA
Cyanea copelandii ssp. copelandii....	.....do.....	.....do.....	.....do.....	E	532	NA	NA
Cyanea copelandii ssp. haleakalaensis	.....do.....	.....do.....	.....do.....	E	666	17.99(e) (1)	NA
Cyanea (=Rollandia) crispa.....	None.....	.....do.....	.....do.....	E	536	17.99(i)	NA
Cyanea dunbarii.....	Haha.....	.....do.....	.....do.....	E	594	17.99(c)	NA
Cyanea glabra.....	.....do.....	.....do.....	.....do.....	E	666	17.99(e) (1)	NA
Cyanea grimesiana ssp. grimesiana....	.....do.....	.....do.....	.....do.....	E	592<ENT> 17.99(c), (e)(1), and (i)	NA	
Cyanea grimesiana ssp. obatae.....	.....do.....	.....do.....	.....do.....	E	541	17.99(i)	NA
Cyanea hamatiflora ssp. carlsonii....	.....do.....	.....do.....	.....do.....	E	532	17.99(k)	NA
Cyanea hamatiflora ssp. hamatiflora	.....do.....	.....do.....	.....do.....	E	666	17.99(e) (1)	NA
Cyanea humboltiana.....	.....do.....	.....do.....	.....do.....	E	591	17.99(i)	NA
Cyanea koolauensis.....	.....do.....	.....do.....	.....do.....	E	591	17.99(i)	NA
Cyanea lobata.....	.....do.....	.....do.....	.....do.....	E	467	17.99(e) (1)	NA
Cyanea longiflora.....	.....do.....	.....do.....	.....do.....	E	591	17.99(i)	NA
Cyanea macrostegia ssp. gibsonii.....	None.....	.....do.....	.....do.....	E	435	NA	NA
Cyanea mannii.....	Haha.....	.....do.....	.....do.....	E	480	17.99(c)	NA
Cyanea mceldowneyi.....	.....do.....	.....do.....	.....do.....	E	467	17.99(e) (1)	NA
Cyanea pinnatifida.....	.....do.....	.....do.....	.....do.....	E	448	17.99(i)	NA
Cyanea platyphylla.....	.....do.....	.....do.....	.....do.....	E	595	17.99(k)	NA
Cyanea procera.....	.....do.....	.....do.....	.....do.....	E	480	17.99(c)	NA
Cyanea recta.....	.....do.....	.....do.....	.....do.....	T	590	17.99(a) (1)	NA
Cyanea remyi.....	.....do.....	.....do.....	.....do.....	E	590	17.99(a) (1)	NA
Cyanea shipmanii.....	.....do.....	.....do.....	.....do.....	E	532	17.99(k)	NA
Cyanea st.-johnii.....	.....do.....	.....do.....	.....do.....	E	591	17.99(i)	NA
Cyanea stictophylla.....	.....do.....	.....do.....	.....do.....	E	532	17.99(k)	NA
Cyanea superba.....	None.....	.....do.....	.....do.....	E	434	17.99(i)	NA

Cyanea truncata	Haha	do	do	E	536	17.99(i)	NA
Cyanea undulata	None	do	do	E	436	17.99(a) (1)	NA
Cycladenia humilis var. jonesii	Jones cycladenia	U.S.A. (AZ, UT)	Apocynaceae	T	229	NA	NA
Cyperus trachysanthos	Puukaa	U.S.A. (HI)	Cyperaceae	E	592	17.99(a) (1) and (i)	NA
Cyrtandra crenata	Ha`iwale	do	Gesneriaceae	E	536	NA	NA
Cyrtandra cyaneoides	Mapele	do	do	E	590	17.99(a) (1)	NA
Cyrtandra dentata	Haiwale	do	do	E	591	17.99(i)	NA
Cyrtandra giffardii	do	do	do	E	532	17.99(k)	NA
Cyrtandra limahuliensis	do	do	do	T	530	17.99(a) (1)	NA
Cyrtandra munroi	do	do	do	E	467	17.99(e) (1)	NA
Cyrtandra polyantha	do	do	do	E	536	17.99(i)	NA
Cyrtandra subumbellata	do	do	do	E	591	17.99(i)	NA
Cyrtandra tintinnabula	do	do	do	E	532	17.99(k)	NA
Cyrtandra viridiflora	do	do	do	E	591	17.99(i)	NA
Dalea foliosa	Leafy prairie-clover	U.S.A. (AL, IL, TN)	Fabaceae	E	422	NA	NA
Daphnopsis hellerana	None	U.S.A. (PR)	Thymelaeaceae	E	309	NA	NA
Deeringothamnus pulchellus	Beautiful pawpaw	U.S.A. (FL)	Annonaceae	E	244	NA	NA
Deeringothamnus rugelii	Rugel's pawpaw	do	do	E	244	NA	NA
Deinandra (=Hemizonia) conjugens	Otay tarplant	U.S.A. (CA), Mexico	Asteraceae_Sunflower	T	649	17.96(a)	NA
Deinandra increscens ssp. villosa	Gaviota tarplant	U.S.A. (CA)	Asteraceae sunflower	E	691	17.96(a)	NA
Delissea rhytidosperma	None	U.S.A. (HI)	Campanulaceae	E	530	17.99(a) (1)	NA
Delissea rivularis	Oha	do	do	E	590	17.99(a) (1)	NA
Delissea subcordata	do	do	do	E	591	17.99(i)	NA
Delissea undulata	None	do	do	E	593	17.99(a) (1) and (k)	NA
Delphinium bakeri	Baker's larkspur	U.S.A. (CA)	Ranunculaceae	E	681	17.96(a)	NA
Delphinium luteum	Yellow larkspur	do	do	E	681	17.96(a)	NA
Delphinium variegatum ssp. kinkiense	San Clemente Island larkspur.	do	do	E	26	NA	NA
Dicerandra christmanii	Garrett's mint	U.S.A. (FL)	Lamiaceae	E	207, 362	NA	NA
Dicerandra cornutissima	Longspurred mint	do	do	E	207	NA	NA
Dicerandra frutescens	Scrub mint	do	do	E	207, 362	NA	NA
Dicerandra immaculata	Lakela's mint	do	do	E	180	NA	NA
Dodecahema leptoceras	Slender-horned spineflower.	U.S.A. (CA)	Polygonaceae	E	291	NA	NA
Dubautia herbstobatae	Naenae	U.S.A. (HI)	Asteraceae	E	448	17.99(i)	NA
Dubautia latifolia	do	do	do	E	464	17.99(a) (1)	NA
Dubautia pauciflorula	do	do	do	E	436	17.99(a) (1)	NA
Dubautia plantaginea ssp. humilis	do	do	do	E	666	17.99(e) (1)	NA
Dudleya abramsii ssp. parva	Conejo dudleya	U.S.A. (CA)	Crassulaceae	T	606	NA	NA
Dudleya cymosa ssp. marcescens	Marcescent dudleya	do	do	T	606	NA	NA
Dudleya cymosa ssp. ovatifolia	Santa Monica Mountains dudleya.	do	do	T	606	NA	NA
Dudleya nesiotica	Santa Cruz Island dudleya.	do	do	T	623	NA	NA
Dudleya setchellii	Santa Clara Valley dudleya.	do	do	E	575	NA	NA
Dudleya stolonifera	Laguna Beach liveforever.	do	do	T	649	NA	NA
Dudleya traskiae	Santa Barbara Island liveforever.	do	do	E	39	NA	NA
Dudleya verityi	Verity's dudleya	do	do	T	606	NA	NA
Echinacea laevigata	Smooth coneflower	U.S.A. (GA, MD, NC, PA, SC, VA).	Asteraceae	E	481	NA	NA
Echinacea tennesseensis	Tennessee purple coneflower.	U.S.A. (TN)	do	E	49	NA	NA
Echinocactus horizonthalonius var. nicholii.	Nichol's Turk's head cactus.	U.S.A. (AZ)	Cactaceae	E	71	NA	NA
Echinocereus chisoensis var. chisoensis.	Chisos Mountain hedgehog cactus.	U.S.A. (TX)	do	T	335	NA	NA
Echinocereus fendleri var. kuenzleri.	Kuenzler hedgehog cactus.	U.S.A. (NM)	do	E	70	NA	NA
Echinocereus reichenbachii var. albertii .	Black lace cactus	U.S.A. (TX)	do	E	68	NA	NA
Echinocereus triglochidiatus var. arizonicus .	Arizona hedgehog cactus	U.S.A. (AZ)	do	E	62	NA	NA
Echinocereus viridiflorus var. davisii .	Davis' green pitaya	U.S.A. (TX)	do	E	81	NA	NA
Echinomastus mariposensis	Lloyd's Mariposa cactus	U.S.A. (TX), Mexico (Coahuila).	do	T	77	NA	NA
Enceliopsis nudicaulis var. corrugata	Ash Meadows sunray	U.S.A. (NV)	Asteraceae	T	181	17.96(a)	NA
Eragrostis fosbergii	Fosberg's love grass	U.S.A. (HI)	Poaceae	E	591	17.99(i)	NA
Eremalche kernensis	Kern mallow	U.S.A. (CA)	Malvaceae	E	395	NA	NA
Eriastrum densifolium ssp. sanctorum.	Santa Ana River woolly-star.	do	Polemoniaceae	E	291	NA	NA
Erigeron decumbens var. decumbens	Willamette daisy	U.S.A. (OR)	Asteraceae	E	679	NA	NA
Erigeron maguirei	Maguire daisy	U.S.A. (UT)	do	T	202, 584	NA	NA
Erigeron parishii	Parish's daisy	U.S.A. (CA)	do	T	548	17.96(a)	NA
Erigeron rhizomatus	Zuni fleabane	U.S.A. (NM)	do	T	177	NA	NA
Eriodictyon altissimum	Indian Knob mountain balm.	U.S.A. (CA)	Hydrophyllaceae	E	567	NA	NA
Eriodictyon capitatum	Lompoc yerba santa	do	Hydrophyllaceae-waterleaf.	E	691	17.96(a)	NA
Eriogonum apricum (incl. var. prostratum).	Ione (incl. Irish Hill)buckwheat.	do	Polygonaceae	E	661	NA	NA

Eriogonum gypsophilum	Gypsum wild-buckwheat	U.S.A. (NM)	do	T	110, 112	17.96(a)	NA
Eriogonum kennedyi var. austromontanum.	Southern mountain wild-buckwheat.	U.S.A. (CA)	do	T	644	NA	NA
Eriogonum longifolium var. gnaphalifolium.	Scrub buckwheat	U.S.A. (FL)	do	T	500	NA	NA
Eriogonum ovalifolium var. vineum	Cushenbury buckwheat	U.S.A. (CA)	do	E	548	17.96(a)	NA
Eriogonum ovalifolium var. williamsiae.	Steamboat buckwheat	U.S.A. (NV)	do	E	237	NA	NA
Eriogonum pelinophilum	Clay-loving wild-buckwheat.	U.S.A. (CO)	do	E	151	17.96(a)	NA
Eriophyllum latilobum	San Mateo woolly sunflower.	U.S.A. (CA)	Asteraceae	E	575	NA	NA
Eryngium aristulatum var. parishii	San Diego button-celery	do	Apiaceae	E	512	NA	NA
Eryngium constancei	Loch Lomond coyote-thistle.	do	do	E	194E, 249	NA	NA
Eryngium cuneifolium	Snakeroot	U.S.A. (FL)	do	E	256	NA	NA
Erysimum capitatum var. angustatum	Contra Costa wallflower	U.S.A. (CA)	Brassicaceae	E	39	17.96(a)	NA
Erysimum menziesii	Menzies' wallflower	do	do	E	472	NA	NA
Erysimum teretifolium	Ben Lomond wallflower	do	do	E	528	NA	NA
Erythronium propullans	Minnesota dwarf trout lily.	U.S.A. (MN)	Liliaceae	E	221	NA	NA
Eugenia haematocarpa	Uvillo	U.S.A. (PR)	Myrtaceae	E	564	NA	NA
Eugenia koolauensis	Nioi	U.S.A. (HI)	do	E	536	17.99(c) and (i)	NA
Eugenia woodburyana	None	U.S.A. (PR)	do	E	551	NA	NA
Euphorbia haeleeleana	Akoko	U.S.A. (HI)	Euphorbiaceae	E	592	17.99(a) (1) and (i)	NA
Euphorbia telephioides	Telephus spurge	U.S.A. (FL)	do	T	463	NA	NA
Eutrema penlandii	Penland alpine fen mustard.	U.S.A. (CO)	Brassicaceae	T	509	NA	NA
Exocarpos luteolus	Heau	U.S.A. (HI)	Santalaceae	E	530	17.99(a) (1)	NA
Flueggea neowawraea	Mehamehame	do	Euphorbiaceae	E	559	17.99(a) (1), (c), (e)(1), (i) and (k)	NA
Frankenia johnstonii	Johnston's frankenia	U.S.A. (TX), Mexico (Nuevo Leon).	Frankeniaceae	E	155	NA	NA
Fremontodendron californicum ssp. decumbens.	Pine Hill flannelbush	U.S.A. (CA)	Sterculiaceae	E	596	NA	NA
Fremontodendron mexicanum	Mexican flannelbush	U.S.A. (CA), Mexico	do	E	648	NA	NA
Fritillaria gentneri	Gentner's fritillary	U.S.A. (OR)	Liliaceae	E	672	NA	NA
Gahnia lanaiensis	None	U.S.A. (HI)	Cyperaceae	E	435	NA	NA
Galactia smallii	Small's milkpea	U.S.A. (FL)	Fabaceae	E	192	NA	NA
Galium buxifolium	Island bedstraw	U.S.A. (CA)	Rubiaceae	E	623	NA	NA
Galium californicum ssp. sierrae	El Dorado bedstraw	do	do	E	596	NA	NA
Gardenia brighamii	Hawaiian gardenia (Na`u).	U.S.A. (HI)	do	E	198	NA	NA
Gardenia mannii	Nanu	do	do	E	591	17.99(i)	NA
Gaura neomexicana ssp. coloradensis	Colorado butterfly plant.	U.S.A. (CO, NE, WY)	Onagraceae	T	704	NA	NA
Geocarpon minimum	None	U.S.A. (AR, LA, MO)	Caryophyllaceae	T	275	NA	NA
Geranium arboreum	Hawaiian red-flowered geranium.	U.S.A. (HI)	Geraniaceae	E	465	17.99(e) (1)	NA
Geranium multiflorum	Nohoanu	do	do	E	467	17.99(e) (1)	NA
Gesneria pauciflora	None	U.S.A. (PR)	Gesneriaceae	T	578	NA	NA
Geum radiatum	Spreading avens	U.S.A. (NC, TN)	Rosaceae	E	381	NA	NA
Gilia tenuiflora ssp. arenaria	Monterey gilia	U.S.A. (CA)	Polemoniaceae	E	472	NA	NA
Gilia tenuiflora ssp. hoffmannii	Hoffmann's slender-flowered gilia.	do	do	E	623	NA	NA
Goetzea elegans	Beautiful goetzea or matabuey.	U.S.A. (PR)	Solanaceae	E	176	NA	NA
Gouania hillebrandii	None	U.S.A. (HI)	Rhamnaceae	E	165	17.96(a)	NA
Gouania meyenii	do	do	do	E	448	17.99(a) (1) and (i)	NA
Gouania vitifolia	do	do	do	E	541	17.99(e) (1), and (k)	NA
Grindelia fraxino-pratensis	Ash Meadows gumplant	U.S.A. (CA, NV)	Asteraceae	T	181	17.96(a)	NA
Hackelia venusta	Showy stickseed	U.S.A. (WA)	Boraginaceae-borage	E	722	NA	NA
Halophila johnsonii	Johnson's seagrass	U.S.A. (FL)	Hydrocharitaceae	T	663	226.213	NA
Haplostachys haplostachya	None	U.S.A. (HI)	Lamiaceae	E	73	NA	NA
Harperocallis flava	Harper's beauty	U.S.A. (FL)	Liliaceae	E	57	NA	NA
Harrisia portoricensis	Higo chumbo	U.S.A. (PR)	Cactaceae	T	397	NA	NA
Hedeoma todsenii	Todsen's pennyroyal	U.S.A. (NM)	Lamiaceae	E	110, 112	17.96(a)	NA
Hedyotis cookiana	Awiwi	U.S.A. (HI)	Rubiaceae	E	530	17.99(a) (1)	NA
Hedyotis coriacea	Kioele	do	do	E	467	17.99(e) (1) and (i)	NA
Hedyotis degeneri	None	do	do	E	448	17.99(i)	NA
Hedyotis mannii	Pilo	do	do	E	480	17.99(e) (1)	NA
Hedyotis parvula	None	do	do	E	448	17.99(i)	NA
Hedyotis purpurea var. montana	Roan Mountain bluet	U.S.A. (NC, TN)	do	E	381	NA	NA
Hedyotis schlechtendahliana var. remyi.	Kopa	U.S.A. (HI)	do	E	666	NA	NA
Hedyotis st.-johnii	Na Pali beach hedyotis.	do	do	E	441	17.99(a) (1)	NA
Helenium virginicum	Virginia sneezeweed	U.S.A. (MO, VA)	Asteraceae	T	652	NA	NA
Helianthemum greenei	Island rush-rose	U.S.A. (CA)	Cistaceae	T	623	NA	NA
Helianthus eggertii	Eggert's sunflower	U.S.A. (AL, KY, TN)	Asteraceae	T	613	NA	NA
Helianthus paradoxus	Pecos (=puzzle,	U.S.A. (NM, TX)	do	T	667	NA	NA

	=paradox)sunflower.						
Helianthus schweinitzii.....	Schweinitz's sunflower.	U.S.A. (NC, SC).....	.....do.....	E	424	NA	NA
Helonias bullata.....	Swamp pink.....	U.S.A. (DE, GA, MD, NC, NJ, NY, SC, VA).	Liliaceae.....	T	326	NA	NA
Hesperolinon congestum.....	Marin dwarf-flax.....	U.S.A. (CA).....	Linaceae.....	T	575	NA	NA
Hesperomannia arborescens.....	None.....	U.S.A. (HI).....	Asteraceae.....	E	536	17.99(c) and (i)	NA
Hesperomannia arbuscula.....	.....do.....	.....do.....	.....do.....	E	448	17.99(e)(1) and (i)	NA
Hesperomannia lydgatei.....	.....do.....	.....do.....	.....do.....	E	436	17.99(a)(1)	NA
Hexastylis naniflora.....	Dwarf-flowered heartleaf.	U.S.A. (NC, SC).....	Aristolochiaceae.....	T	347	NA	NA
Hibiscadelphus distans.....	Kauai hau kuahiwi.....	U.S.A. (HI).....	Malvaceae.....	E	225	NA	NA
Hibiscadelphus giffardianus.....	Hau kuahiwi.....	.....do.....	.....do.....	E	595	17.99(k)	NA
Hibiscadelphus hualalaiensis.....	.....do.....	.....do.....	.....do.....	E	595	17.99(k)	NA
Hibiscadelphus woodii.....	.....do.....	.....do.....	.....do.....	E	590	17.99(a)(1)	NA
Hibiscus arnottianus ssp. immaculatus	Kokio keokeo.....	.....do.....	.....do.....	E	480	17.99(c)	NA
Hibiscus brackenridgei.....	Mao hau hele.....	.....do.....	.....do.....	E	559	17.99(c), (e)(1), (i), and (k)	NA
Hibiscus clayi.....	Clay's hibiscus.....	.....do.....	.....do.....	E	530	17.99(a)(1)	NA
Hibiscus waimeae ssp. hannerae.....	Kokio keokeo.....	.....do.....	.....do.....	E	590	17.99(a)(1)	NA
Hoffmannseggia tenella.....	Slender rush-pea.....	U.S.A. (TX).....	Fabaceae.....	E	209	NA	NA
Holocarpha macradenia.....	Santa Cruz tarplant....	U.S.A. (CA).....	Asteraceae_Sunflower...	T	690	17.96(a)	NA
Howellia aquatilis.....	Water howellia.....	U.S.A. (CA, ID, MT, OR, WA).	Campanulaceae.....	T	542	NA	NA
Hudsonia montana.....	Mountain golden heather	U.S.A. (NC).....	Cistaceae.....	T	107	17.96(a)	NA
Hymenoxys herbacea.....	Lakeside daisy.....	U.S.A. (IL, MI, OH), Canada (Ont.).	Asteraceae.....	T	310	NA	NA
Hymenoxys texana.....	Texas prairie dawn-flower.	U.S.A. (TX).....	.....do.....	E	218	NA	NA
Hypericum cumulicola.....	Highlands scrub hypericum.	U.S.A. (FL).....	Hypericaceae.....	E	256	NA	NA
Ilex cookii.....	Cook's holly.....	U.S.A. (PR).....	Aquifoliaceae.....	E	277	NA	NA
Ilex sintenisii.....	None.....	.....do.....	.....do.....	E	461	NA	NA
Iliamna corei.....	Peter's Mountain mallow	U.S.A. (VA).....	Malvaceae.....	E	230	NA	NA
Ipomopsis sancti-spiritus.....	Holy Ghost ipomopsis...	U.S.A. (NM).....	Polemoniaceae.....	E	535	NA	NA
Iris lacustris.....	Dwarf lake iris.....	U.S.A. (MI, WI), Canada (Ont.).	Iridaceae.....	T	330	NA	NA
Ischaemum byrone.....	Hilo ischaemum.....	U.S.A. (HI).....	Poaceae.....	E	532	17.99(a)(1), (c), (e)(1), and (k)	NA
Isodendrion hosakae.....	Aupaka.....	.....do.....	Violaceae.....	T	414	17.99(k)	NA
Isodendrion laurifolium.....	.....do.....	.....do.....	.....do.....	E	592	17.99(a)(1) and (i)	NA
Isodendrion longifolium.....	.....do.....	.....do.....	.....do.....	T	592	17.99(a)(1) and (i)	NA
Isodendrion pyrifolium.....	Wahine noho kula.....	.....do.....	.....do.....	E	532	17.99(c), (e)(1), and (i)	NA
Isotria medeoloides.....	Small whorled pogonia..	U.S.A. (CT, DC, DE, GA, IL, MA, MD, ME, MI, MO, NC, NH, NJ, NY, PA, RI, SC, TN, VA, VT,WV), Canada (Ont.).	Orchidaceae.....	T	122, 556	NA	NA
Ivesia kingii var. eremica.....	Ash Meadows ivesia.....	U.S.A. (NV).....	Rosaceae.....	T	181	17.96(a)	NA
Jacquemontia reclinata.....	Beach jacquemontia.....	U.S.A. (FL).....	Convolvulaceae.....	E	523	NA	NA
Jatropha costaricensis.....	Costa Rican jatropha...	Costa Rica.....	Euphorbiaceae.....	E	154	NA	NA
Juglans jamaicensis.....	Nogal or West Indian walnut.	U.S.A. (PR), Cuba, Hispaniola.	Juglandaceae.....	E	603	NA	NA
Justicia cooleyi.....	Cooley's water-willow..	U.S.A. (FL).....	Acanthaceae.....	E	356	NA	NA
Kanaloa kahoolawensis.....	Kohe malama malama o kanaloa.	U.S.A. (HI).....	Fabaceae.....	E	666	17.99(e)(2)	NA
Kokia cookei.....	Cooke's koki`o.....	.....do.....	Malvaceae.....	E	74	NA	NA
Kokia drynarioides.....	Koki`o.....	.....do.....	.....do.....	E	167	17.96(a)	NA
Kokia kauaiensis.....	.....do.....	.....do.....	.....do.....	E	590	17.99(a)(1)	NA
Labordia cyrtandrae.....	Kamakahala.....	.....do.....	Loganiaceae.....	E	591	17.99(i)	NA
Labordia lydgatei.....	.....do.....	.....do.....	.....do.....	E	436	17.99(a)(1)	NA
Labordia tinifolia var. lanaiensis...	.....do.....	.....do.....	.....do.....	E	666	NA	NA
Labordia tinifolia var. wahiawaensis.	.....do.....	.....do.....	.....do.....	E	590	17.99(a)(1)	NA
Labordia triflora.....	.....do.....	.....do.....	.....do.....	E	666	17.99(c)	NA
Lasthenia burkei.....	Burke's goldfields.....	U.S.A. (CA).....	Asteraceae.....	E	453	NA	NA
Lasthenia conjugens.....	Contra Costa goldfields	U.S.A. (CA).....	Asteraceae.....	E	619	17.96(a)	NA
Layia carnosa.....	Beach layia.....	.....do.....	.....do.....	E	472	NA	NA
Lembertia congdonii.....	San Joaquin wooly-threads.	.....do.....	.....do.....	E	395	NA	NA
Lepanthes eltoroensis.....	None.....	U.S.A. (PR).....	Orchidaceae.....	E	451	NA	NA
Lepidium arbuscula.....	Anaunau.....	U.S.A. (HI).....	Brassicaceae.....	E	591	17.99(i)	NA
Lepidium barnebyanum.....	Barneby ridge-cress....	U.S.A. (UT).....	.....do.....	E	402	NA	NA
Leptocereus grantianus.....	None.....	U.S.A. (PR).....	Cactaceae.....	E	491	NA	NA
Lespedeza leptostachya.....	Prairie bush-clover....	U.S.A. (IA, IL, MN, WI)	Fabaceae.....	T	254	NA	NA
Lesquerella congesta.....	Dudley Bluffs	U.S.A. (CO).....	Brassicaceae.....	T	374	NA	NA

	bladderpod.						
Lesquerella filiformis	Missouri bladderpod	U.S.A. (AR, MO)	do	T	253, 739	NA	NA
Lesquerella kingii ssp. bernardina	San Bernardino Mountains bladderpod.	U.S.A. (CA)	do	E	548	17.96(a)	NA
Lesquerella lyrata	Lyrate bladderpod	U.S.A. (AL)	do	T	403	NA	NA
Lesquerella pallida	White bladderpod	U.S.A. (TX)	do	E	260	NA	NA
Lesquerella perforata	Spring Creek bladderpod	U.S.A. (TN)	do	E	599	NA	NA
Lesquerella thamnophila	Zapata bladderpod	U.S.A. (TX), Mexico	do	E	671	17.96(a)	NA
Lesquerella tumulosa	Kodachrome bladderpod	U.S.A. (UT)	do	E	519	NA	NA
Lessingia germanorum (=L. g. var. germanorum).	San Francisco lessingia	U.S.A. (CA)	Asteraceae	E	620	NA	NA
Liatris helleri	Heller's blazingstar	U.S.A. (NC)	do	T	300	NA	NA
Liatris ohlingerae	Scrub blazingstar	U.S.A. (FL)	do	E	356	NA	NA
Lilaeopsis schaffneriana var. recurva	Huachuca water-umbel	U.S.A. (AZ), Mexico	Apiaceae	E	600	17.96(a)	NA
Lilium occidentale	Western lily	U.S.A. (OR, CA)	Liliaceae	E	544	NA	NA
Lilium pardalinum ssp. pitkinense	Pitkin Marsh lily	U.S.A. (CA)	do	E	625	NA	NA
Limnanthes floccosa ssp. californica	Butte County meadowfoam	U.S.A. (CA)	Limnanthaceae	E	471	17.96(a)	NA
Limnanthes floccosa ssp. grandiflora	large-flowered woolly meadowfoam.	U.S.A. (OR)	do	E	733	NA	NA
Limnanthes vinculans	Sebastopol meadowfoam	U.S.A. (CA)	do	E	453	NA	NA
Lindera melissifolia	Pondberry	U.S.A. (AL, AR, FL, GA, LA, MO, MS, NC, SC).	Lauraceae	E	240	NA	NA
Lipochaeta fauriei	Nehe	U.S.A. (HI)	Asteraceae	E	530	17.99(a) (1)	NA
Lipochaeta kamolensis	do	do	do	E	467	17.99(e) (1)	NA
Lipochaeta lobata var. leptophylla	do	do	do	E	448	17.99(i)	NA
Lipochaeta micrantha	do	do	do	E	530	17.99(a) (1)	NA
Lipochaeta tenuifolia	do	do	do	E	448	17.99(i)	NA
Lipochaeta venosa	None	do	do	E	73	NA	NA
Lipochaeta waimeaensis	Nehe	do	do	E	530	17.99(a) (1)	NA
Lithophragma maximum	San Clemente Island woodland-star.	U.S.A. (CA)	Saxifragaceae	E	624	NA	NA
Lobelia gaudichaudii ssp. koolauensis	None	U.S.A. (HI)	Campanulaceae	E	591	17.99(i)	NA
Lobelia monostachya	do	do	do	E	591	17.99(i)	NA
Lobelia niihauensis	do	do	do	E	448	17.99(i)	NA
Lobelia oahuensis	do	do	do	E	536	17.99(i)	NA
Lomatium bradshawii	Bradshaw's desert-parsley.	U.S.A. (OR,WA)	Apiaceae	E	333	NA	NA
Lomatium cookii	Cook's lomatium	U.S.A. (OR)	do	E	733	NA	NA
Lotus dendroideus ssp. traskiae	San Clemente Island broom.	U.S.A. (CA)	Fabaceae	E	26	NA	NA
Lupinus aridorum	Scrub lupine	U.S.A. (FL)	do	E	264	NA	NA
Lupinus nipomensis	Nipomo Mesa lupine	U.S.A. (CA)	do	E	691	NA	NA
Lupinus sulphureus (=oreganus) ssp. kincaidii (=var. kincaidii).	Kincaid's lupine	U.S.A. (OR, WA)	do	T	679	NA	NA
Lupinus tidestromii	Clover lupine	U.S.A. (CA)	do	E	472	NA	NA
Lyonia truncata var. proctorii	None	U.S.A. (PR)	Ericaceae	E	501	NA	NA
Lysimachia asperulaefolia	Rough-leaved loosestrife.	U.S.A. (NC, SC)	Primulaceae	E	274	NA	NA
Lysimachia filifolia	None	U.S.A. (HI)	do	E	530	17.99(a) (1) and (i)	NA
Lysimachia lydgatei	do	do	do	E	467	17.99(e) (1)	NA
Lysimachia maxima	do	do	do	E	594	17.99(c)	NA
Macbridea alba	White birds-in-a-nest	U.S.A. (FL)	Lamiaceae	T	463	NA	NA
Malacothamnus clementinus	San Clemente Island bush-mallow.	U.S.A. (CA)	Malvaceae	E	26	NA	NA
Malacothamnus fasciculatus var. nesioticus.	Santa Cruz Island bushmallow.	do	do	E	623	NA	NA
Malacothrix indecora	Santa Cruz Island malocothrix.	do	Asteraceae	E	623	NA	NA
Malacothrix squalida	Island malacothrix	do	do	E	623	NA	NA
Manihot walkerae	Walker's manioc	U.S.A. (TX), Mexico	Euphorbiaceae	E	445	NA	NA
Mariscus fauriei	None	U.S.A (HI)	Cyperaceae	E	532	17.99(c) and (k)	NA
Mariscus pennatiformis	do	do	do	E	559	17.99(a) (1), (e)(1), (g), and (i)	NA
Marshallia mohrii	Mohr's Barbara's buttons.	U.S.A. (AL, GA)	Asteraceae	T	324	NA	NA
Melicope adscendens	Alani	U.S.A. (HI)	Rutaceae	E	565	17.99(e) (1)	NA
Melicope balloui	do	do	do	E	565	17.99(e) (1)	NA
Melicope haupuensis	do	do	do	E	530	17.99(a) (1)	NA
Melicope knudsenii	do	do	do	E	530	17.99(a) (1) and (e)(1)	NA
Melicope lydgatei	do	do	do	E	536	17.99(i)	NA
Melicope mucronulata	do	do	do	E	467	17.99(c) and (e)(1)	NA
Melicope munroi	do	do	do	E	666	NA	NA
Melicope ovalis	do	do	do	E	565	17.99(e) (1)	NA
Melicope pallida	do	do	do	E	530	17.99(a) (1) and (i)	NA
Melicope quadrangularis	do	do	do	E	530	NA	NA
Melicope reflexa	do	do	do	E	480	17.99(c)	NA
Melicope saint-johnii	do	do	do	E	591	17.99(i)	NA

Melicope zahlbruckneri	...do	...do	...do	E	595	17.99(k)	NA
Mentzelia leucophylla	Ash Meadows blazing-star.	U.S.A. (NV)	Loasaceae	T	181	17.96(a)	NA
Mimulus glabratus var. michiganensis	Michigan monkey-flower	U.S.A. (MI)	Scrophulariaceae	E	392	NA	NA
Mirabilis macfarlanei	MacFarlane's four-o'clock.	U.S.A. (ID, OR)	Nyctaginaceae	T	66, 581	NA	NA
Mitracarpus maxwelliae	None	U.S.A. (PR)	Rubiaceae	E	551	NA	NA
Mitracarpus polycladus	...do	U.S.A. (PR), Saba	...do	E	551	NA	NA
Monardella linoides ssp. viminea	Willowy monardella	U.S.A. (CA), Mexico	Lamiaceae	E	649	NA	NA
Munroidendron racemosum	None	U.S.A. (HI)	Araliaceae	E	530	17.99(a)(1)	NA
Myrcia paganii	...do	U.S.A. (PR)	Myrtaceae	E	529	NA	NA
Myrsine juddii	Kolea	U.S.A. (HI)	Myrsinaceae	E	591	17.99(i)	NA
Myrsine linearifolia	...do	...do	...do	T	590	17.99(a)(1)	NA
Navarretia fossalis	Spreading navarretia	U.S.A. (CA), Mexico (Baja California).	Polemoniaceae	T	650	NA	NA
Navarretia leucocephala ssp. pauciflora (=N. pauciflora).	Few-flowered navarretia	U.S.A. (CA)	...do	E	619	NA	NA
Navarretia leucocephala ssp. plieantha.	Many-flowered navarretia.	...do	...do	E	619	NA	NA
Neostapfia colusana	Colusa grass	U.S.A. (CA)	Poaceae	T	611	17.96(a)	NA
Neraudia angulata	None	U.S.A. (HI)	Urticaceae	E	448	17.99(i)	NA
Neraudia ovata	...do	...do	...do	E	595	17.99(k)	NA
Neraudia sericea	...do	...do	...do	E	559	17.99(c) and (e)(1)	NA
Nesogenes rotensis	None	Western Pacific Ocean_U.S.A. (Commonwealth of the Northern Mariana Islands).	Verbenaceae_Verbena family.	E	742	NA	NA
Nitrophila mohavensis	Amargosa niterwort	U.S.A. (CA, NV)	Chenopodiaceae	E	181	17.96(a)	NA
Nolina brittoniana	Britton's beargrass	U.S.A. (FL)	Agavaceae	E	500	NA	NA
Nothocestrum breviflorum	Aiea	U.S.A (HI)	Solanaceae	E	532	17.99(k)	NA
Nothocestrum peltatum	...do	...do	...do	E	530	17.99(a)(1)	NA
Nototrichium humile	Kului	...do	Amaranthaceae	E	448	17.99(e)(1) and (i)	NA
Ochrosia kilaueaensis	Holei	...do	Apocynaceae	E	532	NA	NA
Oenothera avita ssp. eurekensis	Eureka Valley evening-primrose.	U.S.A. (CA)	Onagraceae	E	39	NA	NA
Oenothera deltoides ssp. howellii	Antioch Dunes evening-primrose.	...do	...do	E	39	17.96(a)	NA
Opuntia treleasei	Bakersfield cactus	...do	Cactaceae	E	395	NA	NA
Orcuttia californica	California Orcutt grass	...do	Poaceae	E	512	NA	NA
Orcuttia inaequalis	San Joaquin Valley Orcutt grass.	U.S.A. (CA)	Poaceae	T	611	17.96(a)	NA
Orcuttia pilosa	Hairy Orcutt grass	U.S.A. (CA)	Poaceae	T	611	17.96(a)	NA
Orcuttia tenuis	Slender Orcutt grass	U.S.A. (CA)	Poaceae	T	611	17.96(a)	NA
Orcuttia viscida	Sacramento Orcutt grass	U.S.A. (CA)	Poaceae	T	611	17.96(a)	NA
Osmoxylon mariannense	None	Western Pacific Ocean_U.S.A. (Commonwealth of the Northern Mariana Islands).	Araliaceae_Ginseng family.	E	742	NA	NA
Ottoschulzia rhodoxylon	Palo de rosa	U.S.A. (PR), Dominican Republic.	Icacinaceae	E	385	NA	NA
Oxypolis canbyi	Canby's dropwort	U.S.A. (DE, GA, MD, NC, SC).	Apiaceae	E	217	NA	NA
Oxytheca parishii var. goodmaniana	Cushenbury oxytheca	U.S.A. (CA)	Polygonaceae	E	548	17.96(a)	NA
Oxytropis campestris var. chartacea	Fassett's locoweed	U.S.A. (WI)	Fabaceae	T	329	NA	NA
Panicum fauriei var. carteri	Carter's panicgrass	U.S.A. (HI)	Poaceae	E	133	17.96(a)	NA
Panicum niihauense	Lau ehu	...do	...do	E	592	17.99(a)(1)	NA
Paronychia chartacea	Papery whitlow-wort	U.S.A. (FL)	Caryophyllaceae	T	256	NA	NA
Parvisedum leiocarpum	Lake County stonecrop	U.S.A. (CA)	Crassulaceae	E	619	NA	NA
Pedicularis furbishiae	Furbish lousewort	U.S.A. (ME), Canada (N.B.).	Scrophulariaceae	E	39	NA	NA
Pediocactus bradyi	Brady pincushion cactus	U.S.A. (AZ)	Cactaceae	E	63	NA	NA
Pediocactus despainii	San Rafael cactus	U.S.A. (UT)	...do	E	286	NA	NA
Pediocactus knowltonii	Knowlton cactus	U.S.A. (CO, NM)	...do	E	72	NA	NA
Pediocactus peeblesianus var. peeblesianus.	Peebles Navajo cactus	U.S.A. (AZ)	...do	E	69	NA	NA
Pediocactus sileri	Siler pincushion cactus	U.S.A. (AZ, UT)	...do	T	64, 524	NA	NA
Pediocactus winkleri	Winkler cactus	U.S.A. (UT)	...do	T	641	NA	NA
Penstemon haydenii	Blowout penstemon	U.S.A. (NE)	Scrophulariaceae	E	285	NA	NA
Penstemon penlandii	Penland beardtongue	U.S.A. (CO)	...do	E	353	NA	NA
Pentachaeta bellidiflora	White-rayed pentachaeta	U.S.A. (CA)	Asteraceae	E	575	NA	NA
Pentachaeta lyonii	Lyon's pentachaeta	...do	...do	E	606	NA	NA
Peperomia wheeleri	Wheeler's peperomia	U.S.A. (PR)	Piperaceae	E	255	NA	NA
Peucedanum sandwicense	Makou	U.S.A. (HI)	Apiaceae	T	530	17.99(a)(1), (c), (e)(1), and (i)	NA
Phacelia argillacea	Clay phacelia	U.S.A. (UT)	Hydrophyllaceae	E	44	NA	NA
Phacelia formosula	North Park phacelia	U.S.A. (CO)	...do	E	121	NA	NA
Phacelia insularis ssp. insularis	Island phacelia	U.S.A. (CA)	...do	E	623	NA	NA
Phlox hirsuta	Yreka phlox	...do	Polemoniaceae	E	683	NA	NA
Phlox nivalis ssp. texensis	Texas trailing phlox	U.S.A. (TX)	...do	E	440	NA	NA
Phyllostegia glabra var. lanaiensis	None	U.S.A. (HI)	Lamiaceae	E	435	NA	NA
Phyllostegia hirsuta	...do	...do	...do	E	591	17.99(i)	NA
Phyllostegia kaalaensis	...do	...do	...do	E	591	17.99(i)	NA
Phyllostegia knudsenii	...do	...do	...do	E	590	17.99(a)(1)	NA

Phyllostegia mannii	do	do	do	E	480	17.99(c) and (e)(1)	NA
Phyllostegia mollis	do	do	do	E	448	17.99(e) (1) and (i)	NA
Phyllostegia parviflora	do	do	do	E	592	17.99(i)	NA
Phyllostegia racemosa	Kiponapona	do	do	E	595	17.99(k)	NA
Phyllostegia velutina	None	do	do	E	595	17.99(k)	NA
Phyllostegia waimeae	do	do	do	E	530	17.99(a) (1)	NA
Phyllostegia warshaueri	do	do	do	E	595	17.99(k)	NA
Phyllostegia wawrana	do	do	do	E	59 0	17.99(a) (1)	NA
Physaria obcordata	Dudley Bluffs twinpod	U.S.A. (CO)	Brassicaceae	T	374	NA	NA
Pilosocereus robinii	Key tree-cactus	U.S.A. (FL), Cuba	Cactaceae	E	153	NA	NA
Pinguicula ionantha	Godfrey's butterwort	U.S.A. (FL)	Lentibulariaceae	T	507	NA	NA
Piperia yadonii	Yadon's piperia	U.S.A. (CA)	Orchidaceae	E	640	NA	NA
Pityopsis ruthii	Ruth's golden aster	U.S.A. (TN)	Asteraceae	E	191	NA	NA
Plagiobothrys hirtus	Rough popcornflower	U.S.A. (OR)	Boraginaceae	E	678	NA	NA
Plagiobothrys strictus	Calistoga allocarya	U.S.A. (CA)	do	E	625	NA	NA
Plantago hawaienis	Laukahi kuahiwi	U.S.A (HI)	Plantaginaceae	E	532	17.99(k)	NA
Plantago princeps	do	do	do	E	559	17.99(a) (1), (c), (e)(1), and (i)	NA
Platanthera holochila	None	do	Orchidaceae	E	592	17.99(a) (1), (e)(1), and (i)	NA
Platanthera leucophaea	Eastern prairie fringed orchid.	U.S.A. (AR, IA, IL, IN, ME, MI, MO, NE, NJ, NY, OH, OK, PA, VA, WI), Canada (Ont., N.B.).	do	T	368	NA	NA
Platanthera praeclara	Western prairie fringed orchid.	U.S.A. (IA, KS, MN, MO, ND, NE, OK, SD), Canada (Man.).	do	T	368	NA	NA
Pleodendron macranthum	Chupacallos	U.S.A. (PR)	Canellaceae	E	564	NA	NA
Pleomele hawaiiensis	Hala pepe	U.S.A (HI)	Liliaceae	E	595	17.99(k)	NA
Poa atropurpurea	San Bernardino bluegrass.	U.S.A. (CA)	Poaceae	E	644	NA	NA
Poa mannii	Mann's bluegrass	U.S.A. (HI)	do	E	558	17.99(a) (1)	NA
Poa napensis	Napa bluegrass	U.S.A. (CA)	do	E	625	NA	NA
Poa sandvicensis	Hawaiian bluegrass	U.S.A. (HI)	do	E	464	17.99(a) (1)	NA
Poa siphonoglossa	None	do	do	E	464	17.99(a) (1)	NA
Pogogyne abramsii	San Diego mesa mint	U.S.A. (CA)	Lamiaceae	E	44	NA	NA
Pogogyne nudiuscula	Otay mesa mint	U.S.A. (CA), Mexico (Baja California).	do	E	512	NA	NA
Polygala lewtonii	Lewton's polygala	U.S.A. (FL)	Polygalaceae	E	500	NA	NA
Polygala smallii	Tiny polygala	do	do	E	192	NA	NA
Polygonella basiramia	Wireweed	do	Polygonaceae	E	256	NA	NA
Polygonella myriophylla	Sandlace	do	do	E	500	NA	NA
Polygonum hickmanii	Scotts Valley polygonum	U.S.A. (CA)	Polygonaceae	E	736	17.96(a)	NA
Portulaca sclerocarpa	Poe	U.S.A (HI)	Portulacaceae	E	532	17.96(b) and 17.99(k)	NA
Potamogeton clystocarpus	Little Aguja pondweed	U.S.A. (TX)	Potamogetonaceae	E	450	NA	NA
Potentilla hickmanii	Hickman's potentilla	U.S.A. (CA)	Rosaceae	E	640	NA	NA
Primula maguirei	Maguire primrose	U.S.A. (UT)	Primulaceae	T	199	NA	NA
Pritchardia affinis	Loulu	U.S.A. (HI)	Arecaceae	E	532	NA	NA
Pritchardia aylmer-robinsonii	Wahane	do	do	E	586	NA	NA
Pritchardia kaalae	Loulu	do	do	E	591	NA	NA
Pritchardia munroi	do	do	do	E	480	NA	NA
Pritchardia napaliensis	do	do	do	E	590	NA	NA
Pritchardia remota	do	do	do	E	587	17.99(g)	NA
Pritchardia schattaueri	do	do	do	E	595	NA	NA
Pritchardia viscosa	do	do	do	E	590	NA	NA
Prunus geniculata	Scrub plum	U.S.A. (FL)	Rosaceae	E	256	NA	NA
Pseudobahia bahiifolia	Hartweg's golden sunburst.	U.S.A. (CA)	Asteraceae	E	609	NA	NA
Pseudobahia	San Joaquin adobe sunburst.	do	do	T	609	NA	NA
Pteralyxia kauaiensis	Kaulu	U.S.A. (HI)	Apocynaceae	E	530	17.99(a) (1)	NA
Ptilimnium nodosum	Harperella	U.S.A. (AL, AR, GA, MD, NC, SC, WV).	Apiaceae	E	332	NA	NA
Purshia subintegra	Arizona cliffrose	U.S.A. (AZ)	Rosaceae	E	148	NA	NA
Quercus hinckleyi	Hinckley's oak	U.S.A. (TX)	Fagaceae	T	318	NA	NA
Ranunculus acriformis var. aestivalis	Autumn buttercup	U.S.A. (UT)	Ranunculaceae	E	355	NA	NA
Remya kauaiensis	None	U.S.A. (HI)	Asteraceae	E	413	17.99(a) (1)	NA
Remya mauiensis	Maui remya	do	do	E	413	17.99(e) (1)	NA
Remya montgomeryi	None	do	do	E	413	17.99(a) (1)	NA
Rhododendron chapmanii	Chapman rhododendron	U.S.A. (FL)	Ericaceae	E	47	NA	NA
Rhus michauxii	Michaux's sumac	U.S.A. (GA, NC, SC, VA)	Anacardiaceae	E	367	NA	NA
Rhynchospora knieskernii	Knieskern's beaked-rush	U.S.A. (DE, NJ)	Cyperaceae	T	429	NA	NA
Ribes echinellum	Miccosukee gooseberry	U.S.A. (FL, SC)	Saxifragaceae	T	190	NA	NA
Rorippa gambellii	Gambel's watercress	U.S.A. (CA)	Brassicaceae	E	511	NA	NA
Sagittaria fasciculata	Bunched arrowhead	U.S.A. (NC, SC)	Alismataceae	E	53	NA	NA
Sagittaria secundifolia	Kral's water-plantain	U.S.A. (AL, GA)	do	T	386	NA	NA
Sanicula mariversa	None	U.S.A. (HI)	Apiaceae	E	448	17.99(i)	NA

Sanicula purpurea	....do	....do	....do	E	592	17.99(e) (1) and (i)	NA
Santalum freycinetianum var. lanaiense.	Lanai sandalwood (=`iliahi).	....do	Santalaceae	E	215	NA	NA
Sarracenia oreophila	Green pitcher-plant	U.S.A. (AL, GA, NC, TN)	Sarraceniaceae	E	56, 89	NA	NA
Sarracenia rubra ssp. alabamensis	Alabama canebrake pitcher-plant.	U.S.A. (AL)	....do	E	346	NA	NA
Sarracenia rubra ssp. jonesii	Mountain sweet pitcher-plant.	U.S.A. (NC, SC)	....do	E	339	NA	NA
Scaevola coriacea	Dwarf naupaka	U.S.A. (HI)	Goodeniaceae	E	231	NA	NA
Schiedea adamantis	Diamond Head schiedea	....do	Caryophyllaceae	E	141	NA	NA
Schiedea apokremnos	Maolioli	....do	....do	E	441	17.99(a) (1)	NA
Schiedea haleakalensis	None	....do	....do	E	467	17.99(e) (1)	NA
Schiedea helleri	....do	....do	....do	E	590	17.99(a) (1)	NA
Schiedea hookeri	....do	....do	....do	E	592	17.99(i)	NA
Schiedea kaalae	....do	....do	....do	E	448	17.99(i)	NA
Schiedea kauaiensis	....do	....do	....do	E	592	17.99(a) (1)	NA
Schiedea kealiae	Maolioli	....do	....do	E	591	17.99(i)	NA
Schiedea lydgatei	None	....do	....do	E	480	17.99(c)	NA
Schiedea membranacea	....do	....do	....do	E	590	17.99(a) (1)	NA
Schiedea nuttallii	....do	....do	....do	E	592	17.99(a) (1), (c), and (i)	NA
Schiedea sarmentosa	....do	....do	....do	E	594	17.99(c)	NA
Schiedea spergulina var. leiopoda	....do	....do	....do	E	530	17.99(a) (1)	NA
Schiedea spergulina var. spergulina	....do	....do	....do	T	530	17.99(a) (1)	NA
Schiedea stellarioides	Laulihilihi (=Maolioli)	....do	....do	E	590	17.99(a) (1)	NA
Schiedea verticillata	None	....do	....do	E	587	17.99(g)	NA
Schoenocrambe argillacea	Clay reed-mustard	U.S.A. (UT)	Brassicaceae	T	457	NA	NA
Schoenocrambe barnebyi	Barneby reed-mustard	....do	....do	E	457	NA	NA
Schoenocrambe suffrutescens	Shrubby reed-mustard	....do	....do	E	293	NA	NA
Schoepfia arenaria	None	U.S.A. (PR)	Olacaceae	T	420	NA	NA
Schwalbea americana	American chaffseed	U.S.A. (AL, CT, DE, FL, GA, LA, MA, MD, MI, MS, NC, NJ, NY, SC, TN, VA).	Scrophulariaceae	E	478	NA	NA
Scirpus ancistrochaetus	Northeastern bulrush	U.S.A. (MA, MD, NH, NY, PA, VA, VT, WV).	Cyperaceae	E	425	NA	NA
Sclerocactus glaucus	Uinta Basin hookless cactus.	U.S.A. (CO, UT)	Cactaceae	T	59	NA	NA
Sclerocactus mesae-verdae	Mesa Verde cactus	U.S.A. (CO, NM)	....do	T	75	NA	NA
Sclerocactus wrightiae	Wright fishhook cactus.	U.S.A. (UT)	....do	E	58	NA	NA
Scutellaria floridana	Florida skullcap	U.S.A. (FL)	Lamiaceae	T	463	NA	NA
Scutellaria montana	Large-flowered skullcap	U.S.A. (GA, TN)	....do	T	234, 720	NA	NA
Sedum integrifolium ssp. leedyi	Leedy's roseroot	U.S.A. (MN, NY)	Crassulaceae	T	460	NA	NA
Senecio franciscanus	San Francisco Peaks groundsel.	U.S.A. (AZ)	Asteraceae	T	137	17.96(a)	NA
Senecio layneae	Layne's butterweed	U.S.A. (CA)	....do	T	596	NA	NA
Serianthes nelsonii	Hayun lagu (Guam), Tronkon guafi (Rota).	Western Pacific Ocean-U.S.A. (GU, MP-Rota).	Fabaceae	E	257, 259	NA	NA
Sesbania tomentosa	Ohai	U.S.A (HI)	....do	E	559	17.99(a) (1), (c), (e)(1), (g), (i), and (k)	NA
Sibara filifolia	Santa Cruz Island rock-cress.	U.S.A. (CA)	Brassicaceae	E	624	NA	NA
Sicyos alba	Anunu	U.S.A (HI)	Cucurbitaceae	E	595	17.99(k)	NA
Sidalcea keckii	Keck's checkermallow	U.S.A. (CA)	Malvaceae_Mallow	E	685	17.96(a)	NA
Sidalcea nelsoniana	Nelson's checker-mallow	U.S.A. (OR, WA)	Malvaceae	T	490	NA	NA
Sidalcea oregana var. calva	Wenatchee Mountains checker-mallow.	U.S.A. (WA)	Malvaceae-(Mallow)	E	673	17.96(a)	NA
Sidalcea oregana ssp. valida	Kenwood Marsh checker-mallow.	U.S.A. (CA)	....do	E	625	NA	NA
Sidalcea pedata	Pedate checker-mallow	....do	....do	E	158	NA	NA
Silene alexandri	None	U.S.A. (HI)	Caryophyllaceae	E	480	17.99(c)	NA
Silene hawaiiensis	....do	....do	....do	T	532	17.99(k)	NA
Silene lanceolata	....do	....do	....do	E	480	17.99(c) and (i)	NA
Silene perlmanii	....do	....do	....do	E	448	17.99(i)	NA
Silene polypetala	Fringed campion	U.S.A. (FL, GA)	....do	E	418	NA	NA
Silene spaldingii	Spalding's catchfly	U.S.A. (OR, ID, MT, WA), Canada (B.C.).	....do	T	712	NA	NA
Sisyrinchium dichotomum	White irisette	U.S.A. (NC)	Iridaceae	E	438	NA	NA
Solanum drymophilum	Erubia	U.S.A. (PR)	Solanaceae	E	319	NA	NA
Solanum incompletum	Popolo ku mai	U.S.A (HI)	....do	E	559	17.99(k)	NA
Solanum sandwicense	Aiakeakua, popolo	....do	....do	E	530	17.99(a) (1) and (i)	NA
Solidago albopilosa	White-haired goldenrod.	U.S.A. (KY)	Asteraceae	T	308	NA	NA
Solidago houghtonii	Houghton's goldenrod	U.S.A. (MI), Canada (Ont.).	....do	T	314	NA	NA
Solidago shortii	Short's goldenrod	U.S.A. (KY)	....do	E	201	NA	NA
Solidago spithamaea	Blue Ridge goldenrod	U.S.A. (NC, TN)	....do	T	175	NA	NA
Spermolepis hawaiiensis	None	U.S.A. (HI)	Apiaceae	E	559	17.99(a)	NA

						(1), (c), (e)(1), and (i)	
Spigelia gentianoides	Gentian pinkroot	U.S.A. (AL, FL)	Loganiaceae	E	406	NA	NA
Spiraea virginiana	Virginia spiraea	U.S.A. (GA, KY, NC, OH, PA, TN, VA, WV).	Rosaceae	T	389	NA	NA
Spiranthes delitescens	Canelo Hills ladies'-tresses.	U.S.A. (AZ)	Orchidaceae	E	600	NA	NA
Spiranthes diluvialis	Ute ladies'-tresses	U.S.A. (CO, ID, MT, NE, NV, UT, WA, WY).	do	T	458	NA	NA
Spiranthes parksii	Navasota ladies'-tresses.	U.S.A. (TX)	do	E	116	NA	NA
Stahlia monosperma	Cobana negra	U.S.A. (PR), Dominican Republic.	Fabaceae	T	380	NA	NA
Stenogyne angustifolia var. angustifolia.	None	U.S.A. (HI)	Lamiaceae	E	73	NA	NA
Stenogyne bifida	do	do	do	E	480	17.99(c)	NA
Stenogyne campanulata	do	do	do	E	464	17.99(a)(1)	NA
Stenogyne kanehoana	do	do	do	E	466	17.99(i)	NA
Stephanomeria malheurensis	Malheur wire-lettuce	U.S.A. (OR)	Asteraceae	E	126	17.96(a)	NA
Streptanthus albidus ssp. albidus	Metcalf Canyon jewelflower.	U.S.A. (CA)	Brassicaceae	E	575	NA	NA
Streptanthus niger	Tiburon jewelflower	do	do	E	575	NA	NA
Styrax portoricensis	Palo de jazmfn	U.S.A. (PR)	Styracaceae	E	461	NA	NA
Styrax texanus	Texas snowbells	U.S.A. (TX)	do	E	162	NA	NA
Suaeda californica	Seablite, California	U.S.A. (CA)	Chenopodiaceae	E	567	NA	NA
Swallenia alexandrae	Eureka Dune grass	do	Poaceae	E	39	NA	NA
Taraxacum californicum	California taraxacum	do	Asteraceae	E	644	NA	NA
Ternstroemia luquillensis	Palo colorado	U.S.A. (PR)	Theaceae	E	461	NA	NA
Ternstroemia subsessilis	None	do	do	E	461	NA	NA
Tetramolopium arenarium	do	U.S.A. (HI)	Asteraceae	E	532	NA	NA
Tetramolopium capillare	Pamakani	do	do	E	555	17.99(e)(1)	NA
Tetramolopium filiforme	None	do	do	E	448	17.99(i)	NA
Tetramolopium lepidotum ssp. lepidotum.	do	do	do	E	448	17.99(i)	NA
Tetramolopium remyi	do	do	do	E	435	17.96(b) and 17.99(e)(1)	NA
Tetramolopium rockii	do	do	do	T	480	17.99(c)	NA
Tetraplasandra gymnocarpa	Oheohe	do	Araliaceae	E	536	17.99(i)	NA
Thalictrum cooleyi	Cooley's meadowrue	U.S.A. (FL, NC)	Ranunculaceae	E	344	NA	NA
Thelypodium howellii ssp. spectabilis	Howell's spectacular thelypody.	U.S.A. (OR)	Brassicaceae	T	662	NA	NA
Thelypodium stenopetalum	Slender-petaled mustard	U.S.A. (CA)	do	E	158	NA	NA
Thlaspi californicum	Kneeland Prairie penny-cress.	do	Brassicaceae_Mustard	E	684	17.96(a)	NA
Thymophylla tephroleuca	Ashy dogweed	U.S.A. (TX)	Asteraceae	E	152	NA	NA
Thysanocarpus conchuliferus	Santa Cruz Island fringepod.	U.S.A. (CA)	Brassicaceae	E	623	NA	NA
Townsendia aprica	Last Chance townsendia.	U.S.A. (UT)	Asteraceae	T	200	NA	NA
Trematolobelia singularis	None	U.S.A. (HI)	Campanulaceae	E	591	17.99(i)	NA
Trichilia triacantha	Bariaco	U.S.A. (PR)	Meliaceae	E	303	NA	NA
Trichostema austromontanum ssp. compactum.	Hidden Lake bluecurls	U.S.A. (CA)	Lamiaceae	T	644	NA	NA
Trifolium amoenum	Showy Indian clover	do	Fabaceae	E	625	NA	NA
Trifolium stoloniferum	Running buffalo clover.	U.S.A. (AR, IL, IN, KS, KY, MO, OH, WV).	do	E	270	NA	NA
Trifolium trichocalyx	Monterey clover	U.S.A. (CA)	do	E	640	NA	NA
Trillium persistens	Persistent trillium	U.S.A. (GA, SC)	Liliaceae	E	39	NA	NA
Trillium reliquum	Relict trillium	U.S.A. (AL, GA, SC)	do	E	306	NA	NA
Tuctoria greenei	Greene's tuctoria	U.S.A. (CA)	Poaceae	T	611	17.96(a)	NA
Tuctoria mucronata	Solano grass	U.S.A. (CA)	Poaceae	T	44	17.96(a)	NA
Urera kaalae	Opuhe	U.S.A. (HI)	Urticaceae	E	448	17.99(i)	NA
Verbena californica	Red Hills vervain	U.S.A. (CA)	Verbenaceae	T	644	NA	NA
Verbesina dissita	Big-leaved crownbeard	U.S.A. (CA), Mexico	Asteraceae	T	589	NA	NA
Vernonia proctorii	None	U.S.A. (PR)	do	E	501	NA	NA
Vicia menziesii	Hawaiian vetch	U.S.A. (HI)	Fabaceae	E	39	NA	NA
Vigna o-wahuensis	None	do	do	E	559	17.99(e)(1), (i), and (k)	NA
Viola chamissoniana ssp. chamissoniana.	Pamakani	do	Violaceae	E	448	17.99(i)	NA
Viola helenae	None	do	do	E	436	17.99(a)(1)	NA
Viola kauaiensis var. wahiawaensis	Nani waialeale	do	do	E	590	17.99(a)(1)	NA
Viola lanaiensis	None	do	do	E	435	NA	NA
Viola oahuensis	do	do	do	E	591	17.99(i)	NA
Warea amplexifolia	Wide-leaf warea	U.S.A. (FL)	Brassicaceae	E	266	NA	NA
Warea carteri	Carter's mustard	do	do	E	256	NA	NA
Wilkesia hobdyi	Dwarfiliau	U.S.A. (HI)	Asteraceae	E	473	17.99(a)(1)	NA
Xylosma crenatum	None	do	Flacourtiaceae	E	464	17.99(a)(1)	NA
Xyris tennesseensis	Tennessee yellow-eyed grass.	U.S.A. (AL, GA, TN)	Xyridaceae	E	430	NA	NA
Yermo xanthocephalus	Desert yellowhead	U.S.A. (WY)	Asteraceae_Sunflower	T	723	17.96(a)	NA
Zanthoxylum dipetalum var. tomentosum	Ae	U.S.A (HI)	Rutaceae	E	595	17.99(k)	NA
Zanthoxylum hawaiiense	do	do	do	E	532	17.99(a)(1), (c), and (e)(1)	NA
Zanthoxylum thomasianum	St. Thomas prickly-ash.	U.S.A. (PR, VI)	do	E	213	NA	NA

Zizania texana	Texas wild-rice	U.S.A. (TX)	Poaceae	E	39	17.96(a)	NA
Ziziphus celata	Florida ziziphus	U.S.A. (FL)	Rhamnaceae	E	356	NA	NA
Conifers							
Abies guatemalensis	Guatemalan fir (=pinabete).	Mexico, Guatemala, Honduras, El Salvador.	Pinaceae	T	84	NA	NA
Cupressus abramsiana	Santa Cruz cypress	U.S.A. (CA)	Cupressaceae	E	252	NA	NA
Cupressus goveniana ssp. goveniana	Gowen cypress	do	do	T	640	NA	NA
Fitzroya cupressoides	Alerce or Chilean false larch.	Chile, Argentina	do	T	79	NA	NA
Torreya taxifolia	Florida torreya	U.S.A. (FL, GA)	Taxaceae	E	140	NA	NA
Ferns and Allies							
Adenophorus periens	Pendent kihi fern	U.S.A (HI)	Grammitidaceae	E	559	17.99(a)(1), (c), (i), and (k)	NA
Adiantum vivesii	None	U.S.A. (PR)	Adiantaceae	E	504	NA	NA
Asplenium fragile var. insulare	do	U.S.A (HI)	Aspleniaceae	E	553	17.99(e)(1) and (k)	NA
Asplenium scolopendrium var. americanum.	American hart's-tongue fern.	U.S.A. (AL, MI, NY, TN), Canada (Ont.).	do	T	354	NA	NA
Ctenitis squamigera	Pauoa	U.S.A. (HI)	do	E	553	17.99(a)(1), (c), (e)(1), and (i)	NA
Cyathea dryopteroides	Elfin tree fern	U.S.A. (PR)	Cyatheaceae	E	277	NA	NA
Diellia erecta	Asplenium-leaved diellia.	U.S.A (HI)	Aspleniaceae	E	559	17.99(a)(1), (c), (e)(1), (i), and (k)	NA
Diellia falcata	None	do	do	E	448	17.99(i)	NA
Diellia pallida	do	do	do	E	530	17.99(a)(1)	NA
Diellia unisora	do	do	do	E	541	17.99(i)	NA
Diplazium molokaiense	do	do	do	E	553	17.99(a)(1), (c), (e)(1), and (i)	NA
Elaphoglossum serpens	do	U.S.A. (PR)	Lomariopsidaceae	E	504	NA	NA
Huperzia (=Phlegmariurus, =Lycopodium) mannii.	Wawae`iole	U.S.A. (HI)	Lycopodiaceae	E	467	NA	NA
Isoetes louisianensis	Louisiana quillwort	U.S.A. (LA, MS)	Isoetaceae	E	482	NA	NA
Isoetes melanospora	Black-spored quillwort.	U.S.A. (GA, SC)	do	E	302	NA	NA
Isoetes tegetiformans	Mat-forming quillwort	U.S.A. (GA)	do	E	302	NA	NA
Marsilea villosa	Ihiihi	U.S.A. (HI)	Marsileaceae	E	474	17.99(i)	NA
Phlegmariurus (=Lycopodium,=Huperzia) mannii.	Wawaeiole	do	Lycopodiaceae	E	467	17.99(e)(1)	NA
Phlegmariurus nutans	do	do	do	E	536	17.99(a)(1) and (i)	NA
Polystichum aleuticum	Aleutian shield-fern	U.S.A. (AK)	Dryopteridaceae	E	305	NA	NA
Polystichum calderonense	None	U.S.A. (PR)	do	E	504	NA	NA
Pteris lidgatei	None	do	Adiantaceae	E	553	17.99(c), (e)(1), and (i)	NA
Tectaria estremerana	do	U.S.A. (PR)	Dryopteridaceae	E	504	NA	NA
Thelypteris inabonensis	do	do	Thelypteridaceae	E	506	NA	NA
Thelypteris pilosa var. alabamensis	Alabama streak-sorus fern.	U.S.A. (AL)	do	T	476	NA	NA
Thelypteris verecunda	None	U.S.A. (PR)	do	E	506	NA	NA
Thelypteris yaucoensis	do	do	do	E	506	NA	NA
Lichens							
Cladonia perforata	Florida perforate cladonia.	U.S.A. (FL)	Cladoniaceae	E	500	NA	NA
Gymnoderma lineare	Rock gnome lichen	U.S.A. (NC,TN)	do	E	572	NA	NA

Symbols used in the ``when listed'' column:
D_Indicates FR where species was Delisted; relisting of the species is indicated by subsequent number(s).
E_Indicates Emergency rule publication (see FR document for effective dates); subsequent number(s) indicate FR final rule, if applicable, under ``When listed''.

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729—69 FR 29096, May 20, 2004.

Editorial Note 1: For Federal Register citations affecting the table in §17.12(h), see the listing above.

Editorial Note 2: For Federal Register citations affecting §17.12, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and on GPO Access.

Subpart C—Endangered Wildlife

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§ 17.21 Prohibitions.

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(a) Except as provided in subpart A of this part, or under permits issued pursuant to §17.22 or §17.23, it is unlawful for any person subject to the jurisdiction of the United States to commit, to attempt to commit, to solicit another to commit or to cause to be committed, any of the acts described in paragraphs (b) through (f) of this section in regard to any endangered wildlife.

(b) *Import or export.* It is unlawful to import or to export any endangered wildlife. Any shipment in transit through the United States is an importation and an exportation, whether or not it has entered the country for customs purposes.

(c) *Take*. (1) It is unlawful to take endangered wildlife within the United States, within the territorial sea of the United States, or upon the high seas. The high seas shall be all waters seaward of the territorial sea of the United States, except waters officially recognized by the United States as the territorial sea of another country, under international law.

(2) Notwithstanding paragraph (c)(1) of this section, any person may take endangered wildlife in defense of his own life or the lives of others.

(3) Notwithstanding paragraph (c)(1) of this section, any employee or agent of the Service, any other Federal land management agency, the National Marine Fisheries Service, or a State conservation agency, who is designated by his agency for such purposes, may, when acting in the course of his official duties, take endangered wildlife without a permit if such action is necessary to:

(i) Aid a sick, injured or orphaned specimen; or

(ii) Dispose of a dead specimen; or

(iii) Salvage a dead specimen which may be useful for scientific study; or

(iv) Remove specimens which constitute a demonstrable but nonimmediate threat to human safety, provided that the taking is done in a humane manner; the taking may involve killing or injuring only if it has not been reasonably possible to eliminate such threat by live-capturing and releasing the specimen unharmed, in a remote area.

(4) Any taking under paragraphs (c)(2) and (3) of this section must be reported in writing to the U.S. Fish and Wildlife Service, Office of Law Enforcement, 4401 North Fairfax Drive, LE–3000, Arlington, VA 22203, within five days. The specimen may only be retained, disposed of, or salvaged under directions from the Office of Law Enforcement.

(5) Notwithstanding paragraph (c)(1) of this section, any qualified employee or agent of a State Conservation Agency which is a party to a Cooperative Agreement with the Service in accordance with section 6(c) of the Act, who is designated by his agency for such purposes, may, when acting in the course of his official duties take those endangered species which are covered by an approved cooperative agreement for conservation programs in accordance with the Cooperative Agreement, provided that such taking is not reasonably anticipated to result in:

(i) The death or permanent disabling of the specimen;

(ii) The removal of the specimen from the State where the taking occurred;

(iii) The introduction of the specimen so taken, or of any progeny derived from such a specimen, into an area beyond the historical range of the species; or

(iv) The holding of the specimen in captivity for a period of more than 45 consecutive days.

(6) Notwithstanding paragraph (c)(1) of this section, any person acting under a valid migratory bird rehabilitation permit issued pursuant to §21.31 of this subchapter may take endangered migratory birds without an endangered species permit if such action is necessary to aid a sick, injured, or orphaned endangered migratory bird, provided the permittee:

(i) Notifies the issuing Migratory Bird Permit Office immediately upon receipt of such bird (contact information for your issuing office is listed on your permit and on the Internet at *http://offices.fws.gov*); and

(ii) Disposes of or transfers such birds, or their parts or feathers, as directed by the Migratory Bird Permit Office.

(7) Notwithstanding paragraph (c)(1) of this section, persons exempt from the permit requirements of §21.12(c) and (d) of this subchapter may take sick and injured endangered migratory birds without an endangered species permit in performing the activities authorized under §21.12(c) and (d).

(d) *Possession and other acts with unlawfully taken wildlife.* (1) It is unlawful to possess, sell, deliver, carry, transport, or ship, by any means whatsoever, any endangered wildlife which was taken in violation of paragraph (c) of this section.

Example A person captures a whooping crane in Texas and gives it to a second person, who puts it in a closed van and drives thirty miles, to another location in Texas. The second person then gives the whooping crane to a third person, who is apprehended with the bird in his possession. All three have violated the law—the first by illegally taking the whooping crane; the second by transporting an illegally taken whooping crane; and the third by possessing an illegally taken whooping crane.

(2) Notwithstanding paragraph (d)(1) of this section, Federal and State law enforcement officers may possess, deliver, carry, transport or ship any endangered wildlife taken in violation of the Act as necessary in performing their official duties.

(3) Notwithstanding paragraph (d)(1) of this section, any person acting under a valid migratory bird rehabilitation permit issued pursuant to §21.31 of this subchapter may possess and transport endangered migratory birds without an endangered species permit when such action is necessary to aid a sick, injured, or orphaned endangered migratory bird, provided the permittee:

(i) Notifies the issuing Migratory Bird Permit Office immediately upon receipt of such bird (contact information for your issuing office is listed on your permit and on the Internet at *http://offices.fws.gov*); and

(ii) Disposes of or transfers such birds, or their parts or feathers, as directed by the Migratory Bird Permit Office.

(4) Notwithstanding paragraph (d)(1) of this section, persons exempt from the permit requirements of §21.12(c) and (d) of this subchapter may possess and transport sick and injured endangered migratory bird species without an endangered species permit in performing the activities authorized under §21.12 (c) and (d).

(e) *Interstate or foreign commerce.* It is unlawful to deliver, receive, carry transport, or ship in interstate or foreign commerce, by any means whatsoever, and in the course of a commercial activity, any endangered wildlife.

(f) *Sale or offer for sale.* (1) It is unlawful to sell or to offer for sale in interstate or foreign commerce any endangered wildlife.

(2) An advertisement for the sale of endangered wildlife which carries a warning to the effect that no sale may be consummated until a permit has been obtained from the U.S. Fish and Wildlife Service shall not be considered an offer for sale within the meaning of this section.

(g) *Captive-bred wildlife.* (1) Notwithstanding paragraphs (b), (c), (e) and (f) of this section, any person may take; export or re-import; deliver, receive, carry, transport or ship in interstate or foreign commerce, in the course of a commercial activity; or sell or offer for sale in interstate or foreign commerce any endangered wildlife that is bred in captivity in the United States provided either that the wildlife is of a taxon listed in paragraph (g)(6) of this section, or that the following conditions are met:

(i) The wildlife is of a species having a natural geographic distribution not including any part of the United States, or the wildlife is of a species that the Director has determined to be eligible in accordance with paragraph (g)(5) of this section;

(ii) The purpose of such activity is to enhance the propagation or survival of the affected species;

(iii) Such activity does not involve interstate or foreign commerce, in the course of a commercial activity, with respect to non-living wildlife;

(iv) Each specimen of wildlife to be re-imported is uniquely identified by a band, tattoo or other means that was reported in writing to an official of the Service at a port of export prior to export from the United States; and

(v) Any person subject to the jurisdiction of the United States who engages in any of the activities authorized by this paragraph does so in accordance with paragraphs (g) (2), (3) and (4) of this section, and with all other applicable regulations in this Subchapter B.

(2) Any person subject to the jurisdiction of the United States seeking to engage in any of the activities authorized by this paragraph must first register with the Service (Office of Management Authority, U. S. Fish and Wildlife Service, 4401 N. Fairfax Drive, Arlington, Virginia 22203). Requests for registration must be submitted on an official application form (Form 3–200-41) provided by the Service, and must include the following information:

(i) The types of wildlife sought to be covered by the registration, identified by common and scientific name to the taxonomic level of family, genus or species;

(ii) A description of the applicant's experience in maintaining and propagating the types of wildlife sought to be covered by the registration, and when appropriate, in conducting research directly related to maintaining and propagating such wildlife;

(iii) Photograph(s) or other evidence clearly depicting the facilities where such wildlife will be maintained; and

(iv) a copy of the applicant's license or registration, if any, under the animal welfare regulations of the U.S. Department of Agriculture (9 CFR part 2).

(3) Upon receiving a complete application, the Director will decide whether or not the registration will be approved. In making this decision, the Director will consider, in addition to the general criteria in §13.21(b) of this subchapter, whether the expertise, facilities or other resources available to the applicant appear adequate to enhance the propagation or survival of the affected wildlife. Public education activities may not be the sole basis to justify issuance of a registration or to otherwise establish eligibility for the exception granted in paragraph (g)(1) of this section. Each person so registered must maintain accurate written records of activities conducted under the registration, and allow reasonable access to Service agents for inspection purposes as set forth in §§13.46 and 13.47. Each person registered must submit to the Director an individual written annual report of activities, including all births, deaths and transfers of any type.

(4) Any person subject to the jurisdiction of the United States seeking to export or conduct foreign commerce in captive-bred endangered wildlife that will not remain under the care of that person must first obtain approval by providing written evidence to satisfy the Director that the proposed recipient of the wildlife has expertise, facilities or other resources adequate to enhance the propagation or survival of such wildlife and that the proposed recipient will use such wildlife for purposes of enhancing the propagation or survival of the affected species.

(5)(i) The Director will use the following criteria to determine if wildlife of any species having a natural geographic distribution that includes any part of the United States is eligible for the provisions of this paragraph:

(A) Whether there is a low demand for taking of the species from wild populations, either because of the success of captive breeding or because of other reasons, and

(B) Whether the wild populations of the species are effectively protected from unauthorized taking as a result of the inaccessibility of their habitat to humans or as a result of the effectiveness of law enforcement.

(ii) The Director will follow the procedures set forth in the Act and in the regulations thereunder with respect to petitions and notification of the public and governors of affected States when determining the eligibility of species for purposes of this paragraph.

(iii) In accordance with the criteria in paragraph (g)(5)(i) of this section, the Director has determined the following species to be eligible for the provisions of this paragraph:

Laysan duck (*Anas laysanensis*).

(6) Any person subject to the jurisdiction of the United States seeking to engage in any of the activities authorized by paragraph (g)(1) of this section may do so without first registering with the Service with respect to the bar-tailed pheasant (*Syrmaticus humiae*), Elliot's pheasant (*S. ellioti*), Mikado pheasant (*S. mikado*), brown eared pheasant (*Crossoptilon mantchuricum*), white eared pheasant (*C. crossoptilon*), cheer pheasant (*Catreus wallichii*), Edward's pheasant (*Lophura edwardsi*), Swinhoe's pheasant (*L. swinhoii*), Chinese monal (*Lophophorus lhuysii*), and Palawan peacock pheasant (*Polyplectron emphanum*); parakeets of the species *Neophema pulchella* and *N. splendida;* the Laysan duck (*Anas laysanensis*); the white-winged wood duck (*Cairina scutulata*); and the inter-subspecific crossed or “generic” tiger (*Panthera tigris*) (*i e*., specimens not identified or identifiable as members of the Bengal, Sumatran, Siberian or Indochinese subspecies (*Panthera tigris tigris, P.t. sumatrae, P.t. altaica* and *P.t. corbetti,* respectively) provided:

(i) The purpose of such activity is to enhance the propagation or survival of the affected exempted species;

(ii) Such activity does not involve interstate or foreign commerce, in the course of a commercial activity, with respect to non-living wildlife;

(iii) Each specimen to be re-imported is uniquely identified by a band, tattoo or other means that was reported in writing to an official of the Service at a port of export prior to export of the specimen from the United States;

(iv) No specimens of the taxa in this paragraph (g)(6) of this section that were taken from the wild may be imported for breeding purposes absent a definitive showing that the need for new bloodlines can only be met by wild specimens, that suitable foreign-bred, captive individuals are unavailable, and that wild populations can sustain limited taking, and an import permit is issued under §17.22;

(v) Any permanent exports of such specimens meet the requirements of paragraph (g)(4) of this section; and

(vi) Each person claiming the benefit of the exception in paragraph (g)(1) of this section must maintain accurate written records of activities, including births, deaths and transfers of specimens, and make those records accessible to Service agents for inspection at reasonable hours as set forth in §§13.46 and 13.47.

[40 FR 44415, Sept. 26, 1975, as amended at 40 FR 53400, Nov. 18, 1975; 41 FR 19226, May 11, 1976; 44 FR 31580, May 31, 1979; 44 FR 54007, Sept. 17, 1979; 58 FR 68325, Dec. 27, 1993; 63 FR 48640, Sept. 11, 1998; 68 FR 2919, Jan. 22, 2003; 68 FR 61136, Oct. 27, 2003]

§ 17.22 Permits for scientific purposes, enhancement of propagation or survival, or for incidental taking.

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Upon receipt of a complete application, the Director may issue a permit authorizing any activity otherwise prohibited by §17.21, in accordance with the issuance criteria of this section, for scientific purposes, for enhancing the propagation or survival, or for the incidental taking of endangered wildlife. Such permits may authorize a single transaction, a series of transactions, or a number of activities over a specific period of time. (See §17.32 for permits for threatened species.) The Director shall publish notice in the Federal Register of each application for a permit that is made under this section. Each notice shall invite the submission from interested parties, within 30 days after the date of

the notice, of written data, views, or arguments with respect to the application. The 30-day period may be waived by the Director in an emergency situation where the life or health of an endangered animal is threatened and no reasonable alternative is available to the applicant. Notice of any such waiver shall be published in the Federal Register within 10 days following issuance of the permit.

(a)(1) *Application requirements for permits for scientific purposes or for the enhancement of propagation or survival.* A person wishing to get a permit for an activity prohibited by §17.21 submits an application for activities under this paragraph. The Service provides Form 3–200 for the application to which all of the following must be attained:

(i) The common and scientific names of the species sought to the covered by the permit, as well as the number, age, and sex of such species, and the activity sought to be authorized (such as taking, exporting, selling in interstate commerce);

(ii) A statement as to whether, at the time of application, the wildlife sought to be covered by the permit (A) is still in the wild, (B) has already been removed from the wild, or (C) was born in captivity;

(iii) A resume of the applicant's attempts to obtain the wildlife sought to be covered by the permit in a manner which would not cause the death or removal from the wild of such wildlife;

(iv) If the wildlife sought to be covered by the permit has already been removed from the wild, the country and place where such removal occurred; if the wildlife sought to be covered by the permit was born in captivity, the country and place where such wildlife was born;

(v) A complete description and address of the institution or other facility where the wildlife sought to be covered by the permit will be used, displayed, or maintained;

(vi) If the applicant seeks to have live wildlife covered by the permit, a complete description, including photographs or diagrams, of the facilities to house and/or care for the wildlife and a resume of the experience of those person who will be caring for the wildlife;

(vii) A full statement of the reasons why the applicant is justified in obtaining a permit including the details of the activities sought to be authorized by the permit;

(viii) If the application is for the purpose of enhancement of propagation, a statement of the applicant's willingness to participate in a cooperative breeding program and to maintain or contribute data to a studbook;

(2) *Issuance criteria.* Upon receiving an application completed in accordance with paragraph (a)(1) of this section, the Director will decide whether or not a permit should be issued. In making this decision, the Director shall consider, in addition to the general criteria in §13.21(b) of this subchapter, the following factors:

(i) Whether the purpose for which the permit is required is adequate to justify removing from the wild or otherwise changing the status of the wildlife sought to be covered by the permit;

(ii) The probable direct and indirect effect which issuing the permit would have on the wild populations of the wildlife sought to be covered by the permit;

(iii) Whether the permit, if issued, would in any way, directly or indirectly, conflict with any known program intended to enhance the survival probabilities of the population from which the wildlife sought to be covered by the permit was or would be removed;

(iv) Whether the purpose for which the permit is required would be likely to reduce the threat of extinction facing the species of wildlife sought to be covered by the permit;

(v) The opinions or views of scientists or other persons or organizations having expertise concerning the wildlife or other matters germane to the application; and

(vi) Whether the expertise, facilities, or other resources available to the applicant appear adequate to successfully accomplish the objectives stated in the application.

(3) *Permit conditions.* In addition to the general conditions set forth in part 13 of this subchapter, every permit issued under this paragraph shall be subject to the special condition that the escape of living wildlife covered by the permit shall be immediately reported to the Service office designated in the permit.

(4) *Duration of permits.* The duration of permits issued under this paragraph shall be designated on the face of the permit.

(b)(1) *Application requirements for permits for incidental taking.* A person wishing to get a permit for an activity prohibited by §17.21(c) submits an application for activities under this paragraph. The Service provides Form 3–200 for the application to which all of the following must be attached:

(i) A complete description of the activity sought to be authorized;

(ii) The common and scientific names of the species sought to be covered by the permit, as well as the number, age, and sex of such species, if known;

(iii) A conservation plan that specifies:

(A) The impact that will likely result from such taking;

(B) What steps the applicant will take to monitor, minimize, and mitigate such impacts, the funding that will be available to implement such steps, and the procedures to be used to deal with unforeseen circumstances;

(C) What alternative actions to such taking the applicant considered and the reasons why such alternatives are not proposed to be utilized; and

(D) Such other measures that the Director may require as being necessary or appropriate for purposes of the plan;

(2) *Issuance criteria.* (i) Upon receiving an application completed in accordance with paragraph (b)(1) of this section, the Director will decide whether or not a permit should be issued. The Director shall consider the general issuance criteria in §13.21(b) of this subchapter, except for §13.21(b)(4), and shall issue the permit if he or she finds that:

(A) The taking will be incidental;

(B) The applicant will, to the maximum extent practicable, minimize and mitigate the impacts of such takings;

(C) The applicant will ensure that adequate funding for the conservation plan and procedures to deal with unforeseen circumstances will be provided;

(D) The taking will not appreciably reduce the likelihood of the survival and recovery of the species in the wild;

(E) The measures, if any, required under paragraph (b)(1)(iii)(D) of this section will be met; and

(F) He or she has received such other assurances as he or she may require that the plan will be implemented.

(ii) In making his or her decision, the Director shall also consider the anticipated duration and geographic scope of the applicant's planned activities, including the amount of listed species habitat that is involved and the degree to which listed species and their habitats are affected.

(3) *Permit conditions.* In addition to the general conditions set forth in part 13 of this subchapter, every permit issued under this paragraph shall contain such terms and conditions as the Director deems necessary or appropriate to carry out the purposes of the permit and the conservation plan including, but not limited to, monitoring and reporting requirements deemed necessary for determining whether such terms and conditions are being complied with. The Director shall rely upon existing reporting requirements to the maximum extent practicable.

(4) *Duration of permits.* The duration of permits issued under this paragraph shall be sufficient to provide adequate assurances to the permittee to commit funding necessary for the activities authorized by the permit, including conservation activities and land use restrictions. In determining the duration of a permit, the Director shall consider the duration of the planned activities, as well as the possible positive and negative effects associated with permits of the proposed duration on listed species, including the extent to which the conservation plan will enhance the habitat of listed species and increase the long-term survivability of such species.

(5) *Assurances provided to permittee in case of changed or unforeseen circumstances.* The assurances in this paragraph (b)(5) apply only to incidental take permits issued in accordance with paragraph (b)(2) of this section where the conservation plan is being properly implemented, and apply only with respect to species adequately covered by the conservation plan. These assurances cannot be provided to Federal agencies. This rule does not apply to incidental take permits issued prior to March 25, 1998. The assurances provided in incidental take permits issued prior to March 25, 1998 remain in effect, and those permits will not be revised as a result of this rulemaking.

(i) *Changed circumstances provided for in the plan.* If additional conservation and mitigation measures are deemed necessary to respond to changed circumstances and were provided for in the plan's operating conservation program, the permittee will implement the measures specified in the plan.

(ii) *Changed circumstances not provided for in the plan.* If additional conservation and mitigation measures are deemed necessary to respond to changed circumstances and such measures were not provided for in the plan's operating conservation program, the Director will not require any conservation and mitigation measures in addition to those provided for in the plan without the consent of the permittee, provided the plan is being properly implemented.

(iii) *Unforeseen circumstances.* (A) In negotiating unforeseen circumstances, the Director will not require the commitment of additional land, water, or financial compensation or additional restrictions on the use of land, water, or other natural resources beyond the level otherwise agreed upon for the species covered by the conservation plan without the consent of the permittee.

(B) If additional conservation and mitigation measures are deemed necessary to respond to unforeseen circumstances, the Director may require additional measures of the permittee where the conservation plan is being properly implemented, but only if such measures are limited to modifications within conserved habitat areas, if any, or to the conservation plan's operating conservation program for the affected species, and maintain the original terms of the conservation plan to the maximum extent possible. Additional conservation and mitigation measures will not involve the commitment of additional land, water or financial compensation or additional restrictions on the use of land, water, or other natural resources otherwise available for development or use under the original terms of the conservation plan without the consent of the permittee.

(C) The Director will have the burden of demonstrating that unforeseen circumstances exist, using the best scientific and commercial data available. These findings must be clearly documented and based upon reliable technical information regarding the status and habitat requirements of the affected species. The Director will consider, but not be limited to, the following factors:

(*1*) Size of the current range of the affected species;

(*2*) Percentage of range adversely affected by the conservation plan;

(*3*) Percentage of range conserved by the conservation plan;

(*4*) Ecological significance of that portion of the range affected by the conservation plan;

(*5*) Level of knowledge about the affected species and the degree of specificity of the species' conservation program under the conservation plan; and

(*6*) Whether failure to adopt additional conservation measures would appreciably reduce the likelihood of survival and recovery of the affected species in the wild.

(6) Nothing in this rule will be construed to limit or constrain the Director, any Federal, State, local, or Tribal government agency, or a private entity, from taking additional actions at its own expense to protect or conserve a species included in a conservation plan.

(7) *Discontinuance of permit activity.* Notwithstanding the provisions of §13.26 of this subchapter, a permittee under this paragraph (b) remains responsible for any outstanding minimization and mitigation measures required under the terms of the permit for take that occurs prior to surrender of the permit and such minimization and mitigation measures as may be required pursuant to the termination provisions of an implementing agreement, habitat conservation plan, or permit even after surrendering the permit to the Service pursuant to §13.26 of this subchapter. The permit shall be deemed canceled only upon a determination by the Service that such minimization and mitigation measures have been implemented. Upon surrender of the permit, no further take shall be authorized under the terms of the surrendered permit.

(c)(1) *Application requirements for permits for the enhancement of survival through Safe Harbor Agreements.* The applicant must submit an application for a permit under this paragraph (c) to the appropriate Regional Director, U.S. Fish and Wildlife Service, for the Region where the applicant resides or where the proposed activity is to occur (for appropriate addresses, see 50 CFR 10.22), if the applicant wishes to engage in any activity prohibited by §17.21. The applicant must submit an official Service application form (3–200.54) that includes the following information:

(i) The common and scientific names of the listed species for which the applicant requests incidental take authorization;

(ii) A description of how incidental take of the listed species pursuant to the Safe Harbor Agreement is likely to occur, both as a result of management activities and as a result of the return to baseline; and

(iii) A Safe Harbor Agreement that complies with the requirements of the Safe Harbor policy available from the Service.

(2) *Issuance criteria.* Upon receiving an application completed in accordance with paragraph (c)(1) of this section, the Director will decide whether or not to issue a permit. The Director shall consider the general issuance criteria in §13.21(b) of this subchapter, except for §13.21(b)(4), and may issue the permit if he or she finds:

(i) The take will be incidental to an otherwise lawful activity and will be in accordance with the terms of the Safe Harbor Agreement;

(ii) The implementation of the terms of the Safe Harbor Agreement is reasonably expected to provide a net conservation benefit to the affected listed species by contributing to the recovery of listed species included in the permit, and the Safe Harbor Agreement otherwise complies with the Safe Harbor policy available from the Service;

(iii) The probable direct and indirect effects of any authorized take will not appreciably reduce the likelihood of survival and recovery in the wild of any listed species;

(iv) Implementation of the terms of the Safe Harbor Agreement is consistent with applicable Federal, State, and Tribal laws and regulations;

(v) Implementation of the terms of the Safe Harbor Agreement will not be in conflict with any ongoing conservation or recovery programs for listed species covered by the permit; and

(vi) The applicant has shown capability for and commitment to implementing all of the terms of the Safe Harbor Agreement.

(3) *Permit conditions.* In addition to any applicable general permit conditions set forth in part 13 of this subchapter, every permit issued under this paragraph (c) is subject to the following special conditions:

(i) A requirement for the participating property owner to notify the Service of any transfer of lands subject to a Safe Harbor Agreement;

(ii) When appropriate, a requirement for the permittee to give the Service reasonable advance notice (generally at least 30 days) of when he or she expects to incidentally take any listed species covered under the permit. Such notification will provide the Service with an opportunity to relocate affected individuals of the species, if possible and appropriate; and

(iii) Any additional requirements or conditions the Director deems necessary or appropriate to carry out the purposes of the permit and the Safe Harbor Agreement.

(4) *Permit effective date.* Permits issued under this paragraph (c) become effective the day of issuance for species covered by the Safe Harbor Agreement.

(5) *Assurances provided to permittee.* (i) The assurances in paragraph (c)(5) (ii) of this section (c)(5) apply only to Safe Harbor permits issued in accordance with paragraph (c)(2) of this section where the Safe Harbor Agreement is being properly implemented, and apply only with respect to species covered by the Agreement and permit. These assurances cannot be provided to Federal agencies. The assurances provided in this section apply only to Safe Harbor permits issued after July 19, 1999.

(ii) The Director and the permittee may agree to revise or modify the management measures set forth in a Safe Harbor Agreement if the Director determines that such revisions or modifications do not change the Director's prior determination that the Safe Harbor Agreement is reasonably expected to provide a net conservation benefit to the listed species. However, the Director may not require additional or different management activities to be undertaken by a permittee without the consent of the permittee.

(6) *Additional actions.* Nothing in this rule will be construed to limit or constrain the Director, any Federal, State, local or Tribal government agency, or a private entity, from taking additional actions at its own expense to protect or conserve a species included in a Safe Harbor Agreement.

(7) *Criteria for revocation.* The Director may not revoke a permit issued under paragraph (c) of this section except as provided in this paragraph. The Director may revoke a permit for any reason set forth in §13.28(a)(1) through (4) of this subchapter. The Director may revoke a permit if continuation of the permitted activity would either appreciably reduce the likelihood of survival and recovery in the wild of any listed species or directly or indirectly alter designated critical habitat such that it appreciably diminishes the value of that critical habitat for both the survival and recovery of a listed species. Before revoking a permit for either of the latter two reasons, the Director, with the consent of the permittee, will pursue all appropriate options to avoid permit revocation. These options may

include, but are not limited to: extending or modifying the existing permit, capturing and relocating the species, compensating the landowner to forgo the activity, purchasing an easement or fee simple interest in the property, or arranging for a third-party acquisition of an interest in the property.

(8) *Duration of permits.* The duration of permits issued under this paragraph (c) must be sufficient to provide a net conservation benefit to species covered in the enhancement of survival permit. In determining the duration of a permit, the Director will consider the duration of the planned activities, as well as the positive and negative effects associated with permits of the proposed duration on covered species, including the extent to which the conservation activities included in the Safe Harbor Agreement will enhance the survival and contribute to the recovery of listed species included in the permit.

(d)(1) *Application requirements for permits for the enhancement of survival through Candidate Conservation Agreements with Assurances.* The applicant must submit an application for a permit under this paragraph (d) to the appropriate Regional Director, U.S. Fish and Wildlife Service, for the Region where the applicant resides or where the proposed activity is to occur (for appropriate addresses, see 50 CFR 10.22). When a species covered by a Candidate Conservation Agreement with Assurances is listed as endangered and the applicant wishes to engage in activities identified in the Agreement and otherwise prohibited by §17.31, the applicant must apply for an enhancement of survival permit for species covered by the Agreement. The permit will become valid if and when covered proposed, candidate or other unlisted species is listed as an endangered species. The applicant must submit an official Service application form (3–200.54) that includes the following information:

(i) The common and scientific names of the species for which the applicant requests incidental take authorization;

(ii) A description of the land use or water management activity for which the applicant requests incidental take authorization; and

(iii) A Candidate Conservation Agreement that complies with the requirements of the Candidate Conservation Agreement with Assurances policy available from the Service.

(2) *Issuance criteria.* Upon receiving an application completed in accordance with paragraph (d)(1) of this section, the Director will decide whether or not to issue a permit. The Director shall consider the general issuance criteria in §13.21(b) of this subchapter, except for §13.21(b)(4), and may issue the permit if he or she finds:

(i) The take will be incidental to an otherwise lawful activity and will be in accordance with the terms of the Candidate Conservation Agreement;

(ii) The Candidate Conservation Agreement complies with the requirements of the Candidate Conservation Agreement with Assurances policy available from the Service;

(iii) The probable direct and indirect effects of any authorized take will not appreciably reduce the likelihood of survival and recovery in the wild of any species;

(iv) Implementation of the terms of the Candidate Conservation Agreement is consistent with applicable Federal, State, and Tribal laws and regulations;

(v) Implementation of the terms of the Candidate Conservation Agreement will not be in conflict with any ongoing conservation programs for species covered by the permit; and

(vi) The applicant has shown capability for and commitment to implementing all of the terms of the Candidate Conservation Agreement.

(3) *Permit conditions.* In addition to any applicable general permit conditions set forth in part 13 of this subchapter, every permit issued under this paragraph (d) is subject to the following special conditions:

(i) A requirement for the property owner to notify the Service of any transfer of lands subject to a Candidate Conservation Agreement;

(ii) When appropriate, a requirement for the permittee to give the Service reasonable advance notice (generally at least 30 days) of when he or she expects to incidentally take any listed species covered under the permit. Such notification will provide the Service with an opportunity to relocate affected individuals of the species, if possible and appropriate; and

(iii) Any additional requirements or conditions the Director deems necessary or appropriate to carry out the purposes of the permit and the Candidate Conservation Agreement.

(4) *Permit effective date.* Permits issued under this paragraph (d) become effective for a species covered by a Candidate Conservation Agreement on the effective date of a final rule that lists a covered species as endangered.

(5) *Assurances provided to permittee in case of changed or unforeseen circumstances.* The assurances in this paragraph (d)(5) apply only to permits issued in accordance with paragraph (d)(2) where the Candidate Conservation with Assurances Agreement is being properly implemented, and apply only with respect to species adequately covered by the Candidate Conservation with Assurances Agreement. These assurances cannot be provided to Federal agencies.

(i) *Changed circumstances provided for in the Agreement.* If the Director determines that additional conservation measures are necessary to respond to changed circumstances and these measures were set forth in the Agreement, the permittee will implement the measures specified in the Agreement.

(ii) *Changed circumstances not provided for in the Agreement.* If the Director determines that additional conservation measures not provided for in the Agreement are necessary to respond to changed circumstances, the Director will not require any conservation measures in addition to those provided for in the Agreement without the consent of the permittee, provided the Agreement is being properly implemented.

(iii) *Unforeseen circumstances.* (A) In negotiating unforeseen circumstances, the Director will not require the commitment of additional land, water, or financial compensation or additional restrictions on the use of land, water, or other natural resources beyond the level otherwise agreed upon for the species covered by the Agreement without the consent of the permittee.

(B) If the Director determines additional conservation measures are necessary to respond to unforeseen circumstances, the Director may require additional measures of the permittee where the Agreement is being properly implemented, but only if such measures maintain the original terms of the Agreement to the maximum extent possible. Additional conservation measures will not involve the commitment of additional land, water, or financial compensation or additional restrictions on the use of land, water, or other natural resources otherwise available for development or use under the original terms of the Agreement without the consent of the permittee.

(C) The Director will have the burden of demonstrating that unforeseen circumstances exist, using the best scientific and commercial data available. These findings must be clearly documented and based upon reliable technical information regarding the status and habitat requirements of the affected species. The Director will consider, but not be limited to, the following factors:

(*1*) Size of the current range of the affected species;

(*2*) Percentage of range adversely affected by the Agreement;

(*3*) Percentage of range conserved by the Agreement;

(*4*) Ecological significance of that portion of the range affected by the Agreement;

(*5*) Level of knowledge about the affected species and the degree of specificity of the species' conservation program under the Agreement; and

(*6*) Whether failure to adopt additional conservation measures would appreciably reduce the likelihood of survival and recovery of the affected species in the wild.

(6) *Additional actions.* Nothing in this rule will be construed to limit or constrain the Director, any Federal, State, local or Tribal government agency, or a private entity, from taking additional actions at its own expense to protect or conserve a species included in a Candidate Conservation with Assurances Agreement.

(7) *Criteria for revocation.* The Director may not revoke a permit issued under paragraph (d) of this section except as provided in this paragraph. The Director may revoke a permit for any reason set forth in §13.28(a)(1) through (4) of this subchapter. The Director may revoke a permit if continuation of the permitted activity would either appreciably reduce the likelihood of survival and recovery in the wild of any listed species or directly or indirectly alter designated critical habitat such that it appreciably diminishes the value of that critical habitat for both the survival and recovery of a listed species. Before revoking a permit for either of the latter two reasons, the Director, with the consent of the permittee, will pursue all appropriate options to avoid permit revocation. These options may include, but are not limited to: extending or modifying the existing permit, capturing and relocating the species, compensating the landowner to forgo the activity, purchasing an easement or fee simple interest in the property, or arranging for a third-party acquisition of an interest in the property.

(8) *Duration of the Candidate Conservation Agreement.* The duration of a Candidate Conservation Agreement covered by a permit issued under this paragraph (d) must be sufficient to enable the Director to determine that the benefits of the conservation measures in the Agreement, when combined with those benefits that would be achieved if it is assumed that the conservation measures would also be implemented on other necessary properties, would preclude or remove any need to list the species covered by the Agreement.

(e) *Objection to permit issuance.* (1) In regard to any notice of a permit application published in the Federal Register, any interested party that objects to the issuance of a permit, in whole or in part, may, during the comment period specified in the notice, request notification of the final action to be taken on the application. A separate written request shall be made for each permit application. Such a request shall specify the Service's permit application number and state the reasons why that party believes the applicant does not meet the issuance criteria contained in §§13.21 and 17.22 of this subchapter or other reasons why the permit should not be issued.

(2) If the Service decides to issue a permit contrary to objections received pursuant to paragraph (c)(1) of this section, then the Service shall, at least ten days prior to issuance of the permit, make reasonable efforts to contact by telephone or other expedient means, any party who has made a request pursuant to paragraph (c)(1) of this section and inform that party of the issuance of the permit. However, the Service may reduce the time period or dispense with such notice if it determines that time is of the essence and that delay in issuance of the permit would: (i) Harm the specimen or population involved; or (ii) unduly hinder the actions authorized under the permit.

(3) The Service will notify any party filing an objection and request for notice under paragraph (c)(1) of this section of the final action taken on the application, in writing. If the Service has reduced or dispensed with the notice period referred to in paragraph (c)(2) of this section, it will include its reasons therefore in such written notice.

[50 FR 39687, Sept. 30, 1985, as amended at 63 FR 8871, Feb. 23, 1998; 63 FR 52635, Oct. 1, 1998; 64 FR 32711, June 17, 1999; 64 FR 52676, Sept. 30, 1999; 69 FR 29670, May 25, 2004; 69 FR 24092, May 3, 2004]

§ 17.23 Economic hardship permits.

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Upon receipt of a complete application, the Director may issue a permit authorizing any activity otherwise prohibited by §17.21, in accordance with the issuance criteria of this section in order to prevent undue economic hardship. The Director shall publish notice in the Federal Register of each application for a permit that is made under this section. Each notice shall invite the submission from interested parties, within 30 days after the date of the notice, of written data, views, or arguments with respect to the application. The 30-day period may be waived by the Director in an emergency situation where the life or health of an endangered animal is threatened and no reasonable alternative is available to the applicant. Notice of any such waiver shall be published in the Federal Register within 10 days following issuance of the permit.

(a) *Application requirements.* Applications for permits under this section must be submitted to the Director by the person allegedly suffering undue economic hardship because his desired activity is prohibited by §17.21. Each application must be submitted on an official application form (Form 3–200) provided by the Service, and must include, as an attachment, all of the information required in §17.22 plus the following additional information:

(1) The possible legal, economic or subsistence alternatives to the activity sought to be authorized by the permit;

(2) A full statement, accompanied by copies of all relevant contracts and correspondence, showing the appli- cant's involvement with the wildlife sought to be covered by the permit (as well as his involvement with similar wildlife), including, where applicable, that portion of applicant's income derived from the taking of such wildlife, or the subsistence use of such wildlife, during the calendar year immediately preceding either the notice in the Federal Register of review of the status of the species or of the proposal to list such wildlife as endangered, whichever is earliest;

(3) Where applicable, proof of a contract or other binding legal obligation which:

(i) Deals specifically with the wildlife sought to be covered by the permit;

(ii) Became binding prior to the date when the notice of a review of the status of the species or the notice of proposed rulemaking proposing to list such wildlife as endangered was published in the Federal Register, whichever is earlier; and

(iii) Will cause monetary loss of a given dollar amount if the permit sought under this section is not granted.

(b) *Issuance criteria.* Upon receiving an application completed in accordance with paragraph (a) of this section, the Director will decide whether or not a permit should be issued under any of the three categories of economic hardship, as defined in section 10(b)(2) of the Act. In making his decisions, the Director shall consider, in addition to the general criteria in §13.21(b) of this subchapter, the following factors:

(1) Whether the purpose for which the permit is being requested is adequate to justify removing from the wild or otherwise changing the status of the wildlife sought to be covered by the permit;

(2) The probable direct and indirect effect which issuing the permit would have on the wild populations of the wildlife sought to be covered by the permit;

(3) The economic, legal, subsistence, or other alternatives or relief available to the applicant;

(4) The amount of evidence that the applicant was in fact party to a contract or other binding legal obligation which;

(i) Deals specifically with the wildlife sought to be covered by the permit; and

(ii) Became binding prior to the date when the notice of a review of the status of the species or the notice of proposed rulemaking proposing to list such wildlife as endangered was published in the Federal Register, whichever is earlier.

(5) The severity of economic hardship which the contract or other binding legal obligation referred to in paragraph (b)(4) of this section would cause if the permit were denied;

(6) Where applicable, the portion of the applicant's income which would be lost if the permit were denied, and the relationship of that portion to the balance of his income;

(7) Where applicable, the nature and extent of subsistence taking generally by the applicant; and

(8) The likelihood that applicant can reasonably carry out his desired activity within one year from the date a notice is published in the Federal Register to review status of such wildlife, or to list such wildlife as endangered, whichever is earlier.

(c) *Permit conditions.* In addition to the general conditions set forth in part 13 of this subchapter, every permit issued under this section shall be subject to the following special conditions:

(1) In addition to any reporting requirements contained in the permit itself, the permittee shall also submit to the Director a written report of his activities pursuant to the permit. Such report must be postmarked or actually delivered no later than 10 days after completion of the activity.

(2) The death or escape of all living wildlife covered by the permit shall be immediately reported to the Service's office designated in the permit.

(d) Duration of permits issued under this section shall be designated on the face of the permit. No permit issued under this section, however, shall be valid for more than one year from the date a notice is published in the Federal Register to review status of such wildlife, or to list such wildlife as endangered, whichever is earlier.

[40 FR 44415, Sept. 26, 1975, as amended at 40 FR 53400, Nov. 18, 1975; 40 FR 58307, Dec. 16, 1975; 50 FR 39688, Sept. 30, 1985]

Subpart D—Threatened Wildlife

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§ 17.31 Prohibitions.

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(a) Except as provided in subpart A of this part, or in a permit issued under this subpart, all of the provisions in §17.21 shall apply to threatened wildlife, except §17.21(c)(5).

(b) In addition to any other provisions of this part 17, any employee or agent of the Service, of the National Marine Fisheries Service, or of a State conservation agency which is operating a conservation program pursuant to the terms of a Cooperative Agreement with the Service in accordance with section 6(c) of the Act, who is designated by his agency for such purposes, may, when acting in the course of his official duties, take those threatened species of wildlife which are covered by an approved cooperative agreement to carry out conservation programs.

(c) Whenever a special rule in §§17.40 to 17.48 applies to a threatened species, none of the provisions

of paragraphs (a) and (b) of this section will apply. The special rule will contain all the applicable prohibitions and exceptions.

[43 FR 18181, Apr. 28, 1978, as amended at 44 FR 31580, May 31, 1979]

§ 17.32 Permits—general.

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Upon receipt of a complete application the Director may issue a permit for any activity otherwise prohibited with regard to threatened wildlife. Such permit shall be governed by the provisions of this section unless a special rule applicable to the wildlife, appearing in §§17.40 to 17.48, of this part provides otherwise. Permits issued under this section must be for one of the following purposes: Scientific purposes, or the enhancement of propagation or survival, or economic hardship, or zoological exhibition, or educational purposes, or incidental taking, or special purposes consistent with the purposes of the Act. Such permits may authorize a single transaction, a series of transactions, or a number of activities over a specific period of time.

(a)(1) *Application requirements for permits for scientific purposes, or the enhancement of propagation or survival, or economic hardship, or zoological exhibition, or educational purposes, or special purposes consistent with the purposes of the Act.* A person wishing to get a permit for an activity prohibited by §17.31 submits an application for activities under this paragraph. The Service provides Form 3–200 for the application to which as much of the following information relating to the purpose of the permit must be attached:

(i) The Common and scientific names of the species sought to be covered by the permit, as well as the number, age, and sex of such species, and the activity sought to be authorized (such as taking, exporting, selling in interstate commerce);

(ii) A statement as to whether, at the time of application, the wildlife sought to be covered by the permit (A) is still in the wild, (B) has already been removed from the wild, or (C) was born in captivity;

(iii) A resume of the applicant's attempts to obtain the wildlife sought to be covered by the permit in a manner which would not cause the death or removal from the wild of such wildlife;

(iv) If the wildlife sought to be covered by the permit has already been removed from the wild, the country and place where such removal occurred; if the wildlife sought to be covered by permit was born in captivity, the country and place where such wildlife was born;

(v) A complete description and address of the institution or other facility where the wildlife sought to be covered by the permit will be used, displayed, or maintained;

(vi) If the applicant seeks to have live wildlife covered by the permit, a complete description, including photographs or diagrams, of the facilities to house and/or care for the wildlife and a resume of the experience of those persons who will be caring for the wildlife;

(vii) A full statement of the reasons why the applicant is justified in obtaining a permit including the details of the activities sought to be authorized by the permit;

(viii) If the application is for the purpose of enhancement of propagation, a statement of the applicant's willingness to participate in a cooperative breeding program and to maintain or contribute data to a studbook;

(2) *Issuance criteria.* Upon receiving an application completed in accordance with paragraph (a)(1) of this section, the Director will decide whether or not a permit should be issued. In making this decision, the Director shall consider, in addition to the general criteria in §13.21(b) of this subchapter, the following factors:

(i) Whether the purpose for which the permit is required is adequate to justify removing from the wild or otherwise changing the status of the wildlife sought to be covered by the permit;

(ii) The probable direct and indirect effect which issuing the permit would have on the wild populations of the wildlife sought to be covered by the permit;

(iii) Whether the permit, if issued, would in any way, directly or indirectly, conflict with any known program intended to enhance the survival probabilities of the population from which the wildlife sought to be covered by the permit was or would be removed;

(iv) Whether the purpose for which the permit is required would be likely to reduce the threat of extinction facing the species of wildlife sought to be covered by the permit;

(v) The opinions or views of scientists or other persons or organizations having expertise concerning the wildlife or other matters germane to the application; and

(vi) Whether the expertise, facilities, or other resources available to the applicant appear adequate to successfully accomplish the objectives stated in the application.

(3) *Permit conditions.* In addition to the general conditions set forth in part 13 of this subchapter, every permit issued under this paragraph shall be subject to the special condition that the escape of living wildlife covered by the permit shall be immediately reported to the Service office designated in the permit.

(4) *Duration of permits.* The duration of permits issued under this paragraph shall be designated on the face of the permit.

(b)(1) *Application requirements for permits for incidental taking.* (i) A person wishing to get a permit for an activity prohibited by §17.31 submits an application for activities under this paragraph.

(ii) The director shall publish notice in the Federal Register of each application for a permit that is made under this section. Each notice shall invite the submission from interested parties, within 30 days after the date of the notice, of written data, views, or arguments with respect to the application.

(iii) Each application must be submitted on an official application (Form 3–200) provided by the

Service, and must include as an attachment, all of the following information:

(A) A complete description of the activity sought to be authorized;

(B) The common and scientific names of the species sought to be covered by the permit, as well as the number, age, and sex of such species, if known;

(C) A conservation plan that specifies:

(*1*) The impact that will likely result from such taking;

(*2*) What steps the applicant will take to monitor, minimize, and mitigate such impacts, the funding that will be available to implement such steps, and the procedures to be used to deal with unforeseen circumstances;

(*3*) What alternative actions to such taking the applicant considered and the reasons why such alternatives are not proposed to be utilized; and

(*4*) Such other measures that the Director may require as being necessary or appropriate for purposes of the plan.

(2) *Issuance criteria.* (i) Upon receiving an application completed in accordance with paragraph (b)(1) of this section, the Director will decide whether or not a permit should be issued. The Director shall consider the general issuance criteria in 13.21(b) of this subchapter, except for 13.21(b)(4), and shall issue the permit if he or she finds that:

(A) The taking will be incidental;

(B) The applicant will, to the maximum extent practicable, minimize and mitigate the impacts of such takings;

(C) The applicant will ensure that adequate funding for the conservation plan and procedures to deal with unforeseen circumstances will be provided;

(D) The taking will not appreciably reduce the likelihood of the survival and recovery of the species in the wild;

(E) The measures, if any, required under paragraph (b)(1)(iii)(D) of this section will be met; and

(F) He or she has received such other assurances as he or she may require that the plan will be implemented.

(ii) In making his or her decision, the Director shall also consider the anticipated duration and geographic scope of the applicant's planned activities, including the amount of listed species habitat that is involved and the degree to which listed species and their habitats are affected.

(3) *Permit conditions.* In addition to the general conditions set forth in part 13 of this subchapter, every permit issued under this paragraph shall contain such terms and conditions as the Director deems necessary or appropriate to carry out the purposes of the permit and the conservation plan including, but not limited to, monitoring and reporting requirements deemed necessary for determining whether such terms and conditions are being complied with. The Director shall rely upon existing reporting requirements to the maximum extent practicable.

(4) *Duration of permits.* The duration of permits issued under this paragraph shall be sufficient to provide adequate assurances to the permittee to commit funding necessary for the activities authorized by the permit, including conservation activities and land use restrictions. In determining the duration of a permit, the Director shall consider the duration of the planned activities, as well as the possible positive and negative effects associated with permits of the proposed duration on listed species, including the extent to which the conservation plan will enhance the habitat of listed species and increase the long-term survivability of such species.

(5) *Assurances provided to permittee in case of changed or unforeseen circumstances.* The assurances in this paragraph (b)(5) apply only to incidental take permits issued in accordance with paragraph (b)(2) of this section where the conservation plan is being properly implemented, and apply only with respect to species adequately covered by the conservation plan. These assurances cannot be provided to Federal agencies. This rule does not apply to incidental take permits issued prior to March 25, 1998. The assurances provided in incidental take permits issued prior to March 25, 1998 remain in effect, and those permits will not be revised as a result of this rulemaking.

(i) *Changed circumstances provided for in the plan.* If additional conservation and mitigation measures are deemed necessary to respond to changed circumstances and were provided for in the plan's operating conservation program, the permittee will implement the measures specified in the plan.

(ii) *Changed circumstances not provided for in the plan.* If additional conservation and mitigation measures are deemed necessary to respond to changed circumstances and such measures were not provided for in the plan's operating conservation program, the Director will not require any conservation and mitigation measures in addition to those provided for in the plan without the consent of the permittee, provided the plan is being properly implemented.

(iii) *Unforeseen circumstances.* (A) In negotiating unforeseen circumstances, the Director will not require the commitment of additional land, water, or financial compensation or additional restrictions on the use of land, water, or other natural resources beyond the level otherwise agreed upon for the species covered by the conservation plan without the consent of the permittee.

(B) If additional conservation and mitigation measures are deemed necessary to respond to unforeseen circumstances, the Director may require additional measures of the permittee where the conservation plan is being properly implemented, but only if such measures are limited to modifications within conserved habitat areas, if any, or to the conservation plan's operating conservation program for the affected species, and maintain the original terms of the conservation plan to the maximum extent possible. Additional conservation and mitigation measures will not involve the commitment of additional land, water or financial compensation or additional restrictions on the use of land, water, or other natural resources otherwise available for development or use under the original terms of the conservation plan without the consent of the permittee.

(C) The Director will have the burden of demonstrating that such unforeseen circumstances exist,

using the best scientific and commercial data available. These findings must be clearly documented and based upon reliable technical information regarding the status and habitat requirements of the affected species. The Director will consider, but not be limited to, the following factors:

(*1*) Size of the current range of the affected species;

(*2*) Percentage of range adversely affected by the conservation plan;

(*3*) Percentage of range conserved by the conservation plan;

(*4*) Ecological significance of that portion of the range affected by the conservation plan;

(*5*) Level of knowledge about the affected species and the degree of specificity of the species' conservation program under the conservation plan; and

(*6*) Whether failure to adopt additional conservation measures would appreciably reduce the likelihood of survival and recovery of the affected species in the wild.

(6) Nothing in this rule will be construed to limit or constrain the Director, any Federal, State, local, or Tribal government agency, or a private entity, from taking additional actions at its own expense to protect or conserve a species included in a conservation plan.

(7) *Discontinuance of permit activity.* Notwithstanding the provisions of §13.26 of this subchapter, a permittee under this paragraph (b) remains responsible for any outstanding minimization and mitigation measures required under the terms of the permit for take that occurs prior to surrender of the permit and such minimization and mitigation measures as may be required pursuant to the termination provisions of an implementing agreement, habitat conservation plan, or permit even after surrendering the permit to the Service pursuant to §13.26 of this subchapter. The permit shall be deemed canceled only upon a determination by the Service that such minimization and mitigation measures have been implemented. Upon surrender of the permit, no further take shall be authorized under the terms of the surrendered permit.

(c)(1) *Application requirements for permits for the enhancement of survival through Safe Harbor Agreements.* The applicant must submit an application for a permit under this paragraph (c) to the appropriate Regional Director, U.S. Fish and Wildlife Service, for the Region where the applicant resides or where the proposed action is to occur (for appropriate addresses, see 50 CFR 10.22), if the applicant wishes to engage in any activity prohibited by §17.31. The applicant must submit an official Service application form (3–200.54) that includes the following information:

(i) The common and scientific names of the listed species for which the applicant requests incidental take authorization;

(ii) A description of how incidental take of the covered species pursuant to the Safe Harbor Agreement is likely to occur, both as a result of management activities and as a result of the return to baseline;

(iii) A Safe Harbor Agreement that complies with the requirements of the Safe Harbor policy available from the Service; and

(iv) The Director must publish notice in the Federal Register of each application for a permit that is made under this paragraph (c). Each notice must invite the submission from interested parties within 30 days after the date of the notice of written data, views, or arguments with respect to the application. The procedures included in §17.22(e) for permit objection apply to any notice published by the Director under this paragraph (c).

(2) *Issuance criteria.* Upon receiving an application completed in accordance with paragraph (c)(1) of this section, the Director will decide whether or not to issue a permit. The Director shall consider the general issuance criteria in §13.21(b) of this subchapter, except for §13.21(b)(4), and may issue the permit if he or she finds:

(i) The take will be incidental to an otherwise lawful activity and will be in accordance with the terms of the Safe Harbor Agreement;

(ii) The implementation of the terms of the Safe Harbor Agreement is reasonably expected to provide a net conservation benefit to the affected listed species by contributing to the recovery of listed species included in the permit, and the Safe Harbor Agreement otherwise complies with the Safe Harbor policy available from the Service;

(iii) The probable direct and indirect effects of any authorized take will not appreciably reduce the likelihood of survival and recovery in the wild of any listed species;

(iv) Implementation of the terms of the Safe Harbor Agreement is consistent with applicable Federal, State, and Tribal laws and regulations;

(v) Implementation of the terms of the Safe Harbor Agreement will not be in conflict with any ongoing conservation or recovery programs for listed species covered by the permit; and

(vi) The applicant has shown capability for and commitment to implementing all of the terms of the Safe Harbor Agreement.

(3) *Permit conditions.* In addition to any applicable general permit conditions set forth in part 13 of this subchapter, every permit issued under this paragraph (c) is subject to the following special conditions:

(i) A requirement for the participating property owner to notify the Service of any transfer of lands subject to a Safe Harbor Agreement;

(ii) When appropriate, a requirement for the permittee to give the Service reasonable advance notice (generally at least 30 days) of when he or she expects to incidentally take any listed species covered under the permit. Such notification will provide the Service with an opportunity to relocate affected individuals of the species, if possible and appropriate; and

(iii) Any additional requirements or conditions the Director deems necessary or appropriate to carry out the purposes of the permit and the Safe Harbor Agreement.

(4) *Permit effective date*. Permits issued under this paragraph (c) become effective the day of issuance for species covered by the Safe Harbor Agreement.

(5) *Assurances provided to permittee.* (i) The assurances in subparagraph (ii) of this paragraph (c)(5) apply only to Safe Harbor permits issued in accordance with paragraph (c)(2) of this section where the Safe Harbor Agreement is being properly implemented, and apply only with respect to species covered by the Agreement and permit. These assurances cannot be provided to Federal agencies. The assurances provided in this section apply only to Safe Harbor permits issued after July 19, 1999.

(ii) The Director and the permittee may agree to revise or modify the management measures set forth in a Safe Harbor Agreement if the Director determines that such revisions or modifications do not change the Director's prior determination that the Safe Harbor Agreement is reasonably expected to provide a net conservation benefit to the listed species. However, the Director may not require additional or different management activities to be undertaken by a permittee without the consent of the permittee.

(6) *Additional actions.* Nothing in this rule will be construed to limit or constrain the Director, any Federal, State, local or Tribal government agency, or a private entity, from taking additional actions at its own expense to protect or conserve a species included in a Safe Harbor Agreement.

(7) *Criteria for revocation.* The Director may not revoke a permit issued under paragraph (c) of this section except as provided in this paragraph. The Director may revoke a permit for any reason set forth in §13.28(a)(1) through (4) of this subchapter. The Director may revoke a permit if continuation of the permitted activity would either appreciably reduce the likelihood of survival and recovery in the wild of any listed species or directly or indirectly alter designated critical habitat such that it appreciably diminishes the value of that critical habitat for both the survival and recovery of a listed species. Before revoking a permit for either of the latter two reasons, the Director, with the consent of the permittee, will pursue all appropriate options to avoid permit revocation. These options may include, but are not limited to: extending or modifying the existing permit, capturing and relocating the species, compensating the landowner to forgo the activity, purchasing an easement or fee simple interest in the property, or arranging for a third-party acquisition of an interest in the property.

(8) *Duration of permits.* The duration of permits issued under this paragraph (c) must be sufficient to provide a net conservation benefit to species covered in the enhancement of survival permit. In determining the duration of a permit, the Director will consider the duration of the planned activities, as well as the positive and negative effects associated with permits of the proposed duration on covered species, including the extent to which the conservation activities included in the Safe Harbor Agreement will enhance the survival and contribute to the recovery of listed species included in the permit.

(d)(1) *Application requirements for permits for the enhancement of survival through Candidate Conservation Agreements with Assurances.* The applicant must submit an application for a permit under this paragraph (d) to the appropriate Regional Director, U.S. Fish and Wildlife Service, for the Region where the applicant resides or where the proposed activity is to occur (for appropriate addresses, see 50 CFR 10.22). When a species covered by a Candidate Conservation Agreement with Assurances is listed as threatened and the applicant wishes to engage in activities identified in the Agreement and otherwise prohibited by §17.31, the applicant must apply for an enhancement of survival permit for species covered by the Agreement. The permit will become valid if and when covered proposed, candidate or other unlisted species is listed as a threatened species. The applicant must submit an official Service application form (3–200.54) that includes the following information:

(i) The common and scientific names of the species for which the applicant requests incidental take authorization;

(ii) A description of the land use or water management activity for which the applicant requests incidental take authorization; and

(iii) A Candidate Conservation Agreement that complies with the requirements of the Candidate Conservation Agreement with Assurances policy available from the Service.

(iv) The Director must publish notice in the Federal Register of each application for a permit that is made under this paragraph (d). Each notice must invite the submission from interested parties within 30 days after the date of the notice of written data, views, or arguments with respect to the application. The procedures included in §17.22(e) for permit objection apply to any notice published by the Director under this paragraph (d).

(2) *Issuance criteria.* Upon receiving an application completed in accordance with paragraph (d)(1) of this section, the Director will decide whether or not to issue a permit. The Director shall consider the general issuance criteria in §13.21(b) of this subchapter, except for §13.21(b)(4), and may issue the permit if he or she finds:

(i) The take will be incidental to an otherwise lawful activity and will be in accordance with the terms of the Candidate Conservation Agreement;

(ii) The Candidate Conservation Agreement complies with the requirements of the Candidate Conservation Agreement with Assurances policy available from the Service;

(iii) The probable direct and indirect effects of any authorized take will not appreciably reduce the likelihood of survival and recovery in the wild of any species;

(iv) Implementation of the terms of the Candidate Conservation Agreement is consistent with applicable Federal, State, and Tribal laws and regulations;

(v) Implementation of the terms of the Candidate Conservation Agreement will not be in conflict with any ongoing conservation programs for species covered by the permit; and

(vi) The applicant has shown capability for and commitment to implementing all of the terms of the Candidate Conservation Agreement.

(3) *Permit conditions.* In addition to any applicable general permit conditions set forth in part 13 of this subchapter, every permit issued under this paragraph (d) is subject to the following special conditions:

(i) A requirement for the property owner to notify the Service of any transfer of lands subject to a Candidate Conservation Agreement;

(ii) When appropriate, a requirement for the permittee to give the Service reasonable advance notice (generally at least 30 days) of when he or she expects to incidentally take any listed species covered under the permit. Such notification will provide the Service with an opportunity to relocate affected individuals of the species, if possible and appropriate; and

(iii) Any additional requirements or conditions the Director deems necessary or appropriate to carry out the purposes of the permit and the Candidate Conservation Agreement.

(4) *Permit effective date.* Permits issued under this paragraph (d) become effective for a species covered by a Candidate Conservation Agreement on the effective date of a final rule that lists a covered species as threatened.

(5) *Assurances provided to permittee in case of changed or unforeseen circumstances.* The assurances in this paragraph (d)(5) apply only to permits issued in accordance with paragraph (d)(2) where the Candidate Conservation with Assurances Agreement is being properly implemented, and apply only with respect to species adequately covered by the Candidate Conservation with Assurances Agreement. These assurances cannot be provided to Federal agencies.

(i) *Changed circumstances provided for in the Agreement.* If the Director determines that additional conservation measures are necessary to respond to changed circumstances and these measures were set forth in the Agreement, the permittee will implement the measures specified in the Agreement.

(ii) *Changed circumstances not provided for in the Agreement.* If the Director determines that additional conservation measures not provided for in the Agreement are necessary to respond to changed circumstances, the Director will not require any conservation measures in addition to those provided for in the Agreement without the consent of the permittee, provided the Agreement is being properly implemented.

(iii) *Unforeseen circumstances.* (A) In negotiating unforeseen circumstances, the Director will not require the commitment of additional land, water, or financial compensation or additional restrictions on the use of land, water, or other natural resources beyond the level otherwise agreed upon for the species covered by the Agreement without the consent of the permittee.

(B) If the Director determines additional conservation measures are necessary to respond to unforeseen circumstances, the Director may require additional measures of the permittee where the Agreement is being properly implemented, but only if such measures maintain the original terms of the Agreement to the maximum extent possible. Additional conservation measures will not involve the commitment of additional land, water, or financial compensation or additional restrictions on the use of land, water, or other natural resources otherwise available for development or use under the original terms of the Agreement without the consent of the permittee.

(C) The Director will have the burden of demonstrating that unforeseen circumstances exist, using the best scientific and commercial data available. These findings must be clearly documented and based upon reliable technical information regarding the status and habitat requirements of the affected species. The Director will consider, but not be limited to, the following factors:

(*1*) Size of the current range of the affected species;

(*2*) Percentage of range adversely affected by the Agreement;

(*3*) Percentage of range conserved by the Agreement;

(*4*) Ecological significance of that portion of the range affected by the Agreement;

(*5*) Level of knowledge about the affected species and the degree of specificity of the species' conservation program under the Agreement; and

(*6*) Whether failure to adopt additional conservation measures would appreciably reduce the likelihood of survival and recovery of the affected species in the wild.

(6) *Additional actions.* Nothing in this rule will be construed to limit or constrain the Director, any Federal, State, local or Tribal government agency, or a private entity, from taking additional actions at its own expense to protect or conserve a species included in a Candidate Conservation with Assurances Agreement.

(7) *Criteria for revocation.* The Director may not revoke a permit issued under paragraph (d) of this section except as provided in this paragraph. The Director may revoke a permit for any reason set forth in §13.28(a)(1) through (4) of this subchapter. The Director may revoke a permit if continuation of the permitted activity would either appreciably reduce the likelihood of survival and recovery in the wild of any listed species or directly or indirectly alter designated critical habitat such that it appreciably diminishes the value of that critical habitat for both the survival and recovery of a listed species. Before revoking a permit for either of the latter two reasons, the Director, with the consent of the permittee, will pursue all appropriate options to avoid permit revocation. These options may include, but are not limited to: extending or modifying the existing permit, capturing and relocating the species, compensating the landowner to forgo the activity, purchasing an easement or fee simple interest in the property, or arranging for a third-party acquisition of an interest in the property.

(8) *Duration of the Candidate Conservation Agreement.* The duration of a Candidate Conservation Agreement covered by a permit issued under this paragraph (d) must be sufficient to enable the Director to determine that the benefits of the conservation measures in the Agreement, when combined with those benefits that would be achieved if it is assumed that the conservation measures would also be implemented on other necessary properties, would preclude or remove any need to list the species covered by the Agreement.

[50 FR 39689, Sept. 30, 1985, as amended at 63 FR 8871, Feb. 23, 1998; 63 FR 52635, Oct. 1, 1998; 64 FR 32714, June 17, 1999; 64 FR 52676, Sept. 30, 1999; 69 FR 29670, May 25, 2004; 69 FR 24093, May 3, 2004]

§ 17.40 Special rules—mammals.

top

(a) [Reserved]

(b) Grizzly bear (*Ursus arctos*)—(1) *Prohibitions.* The following prohibitions apply to the grizzly bear:

(i) *Taking.* (A) Except as provided in paragraphs (b)(1)(i)(B) through (F) of this section, no person shall take any grizzly bear in the 48 conterminous states of the United States.

(B) Grizzly bears may be taken in self-defense or in defense of others, but such taking shall be reported, within 5 days of occurrence, to the Assistant Regional Director, Division of Law Enforcement, U.S. Fish and Wildlife Service, P.O. Box 25486, Denver Federal Center, Denver, Colorado 80225 (303/236–7540 or FTS 776–7540), if occurring in Montana or Wyoming, or to the Assistant Regional Director, Division of Law Enforcement, U.S. Fish and Wildlife Service, Lloyd 500 Building, Suite 1490, 500 Northeast Multnomah Street, Portland, Oregon 97232 (503/231–6125 or FTS 429–6125), if occurring in Idaho or Washington, and to appropriate State and Indian Reservation Tribal authorities. Grizzly bears or their parts taken in self-defense or in defense of others shall not be possessed, delivered, carried, transported, shipped, exported, received, or sold, except by Federal, State, or Tribal authorities.

(C) *Removal of nuisance bears.* A grizzly bear consituting a demonstrable but non immediate threat to human safety or committing significant depredations to lawfully present livestock, crops, or beehives may be taken, but only if:

(*1*) It has not been reasonably possible to eliminate such threat or depredation by live-capturing and releasing unharmed in a remote area the grizzly bear involved; and

(*2*) The taking is done in a humane manner by authorized Federal, State, or Tribal authorities, and in accordance with current interagency guidelines covering the taking of such nuisance bears; and

(*3*) The taking is reported within 5 days of occurrence to the appropriate Assistant Regional Director, Division of Law Enforcement, U.S. Fish and Wildlife Service, as indicated in paragraph (b)(1)(i)(B) of this section, and to appropriate State and Tribal authorities.

(D) *Federal, State, or Tribal scientific or research activities.* Federal, State, or Tribal authorities may take grizzly bears for scientific or research purposes, but only if such taking does not result in death or permanent injury to the bears involved. Such taking must be reported within 5 days of occurrence to the appropriate Assistant Regional Director, Division of Law Enforcement, U.S. Fish and Wildlife Service, as indicated in paragraph (b)(1)(i)(B) of this section, and to appropriate State and Tribal authorities.

(E) [Reserved]

(F) *National Parks.* The regulations of the National Park Service shall govern all taking of grizzly bears in National Parks.

(ii) *Unlawfully taken grizzly bears.* (A) Except as provided in paragraphs (b)(1)(ii)(B) and (iv) of this section, no person shall possess, deliver, carry, transport, ship, export, receive, or sell any unlawfully taken grizzly bear. Any unlawful taking of a grizzly bear shall be reported within 5 days of occurrence to the appropriate Assistant Regional Director, Division of Law Enforcement, U.S. Fish and Wildlife Service, as indicated in paragraph (b)(1)(i)(B) of this section, and to appropriate State and Tribal authorities.

(B) Authorized Federal, State, or Tribal employees, when acting in the course of their official duties, may, for scientific or research purposes, possess, deliver, carry, transport, ship, export, or receive unlawfully taken grizzly bears.

(iii) *Import or export.* Except as provided in paragraphs (b)(1)(iii) (A) and (B) and (iv) of this section, no person shall import any grizzly bear into the United States.

(A) *Federal, State, or Tribal scientific or research activities.* Federal, State, or Tribal authorities may import grizzly bears into the United States for scientific or research purposes.

(B) *Public zoological institution.* Public zoological institutions (see 50 CFR 10.12) may import grizzly bears into the United States.

(iv) *Commercial transactions.* (A) Except as provided in paragraph (b)(1)(iv)(B) of this section, no person shall, in the course of commercial activity, deliver, receive, carry, transport, or ship in interstate or foreign commerce any grizzly bear.

(B) A public zoological institution (see 50 CFR 10.12) dealing with other public zoological institutions may sell grizzly bears or offer them for sale in interstate or foreign commerce, and may, in the course of commercial activity, deliver, receive, carry, transport, or ship grizzly bears in interstate or foreign commerce.

(v) *Other violations.* No person shall attempt to commit, cause to be committed, or solicit another to commit any act prohibited by paragraph (b)(1) of this section.

(2) *Definitions.* As used in paragraph (b) of this section:

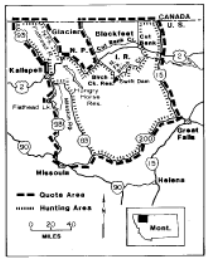
Grizzly bear means any member of the species *Ursus arctos* of the 48 conterminous States of the United States, including any part, offspring, dead body, part of a dead body, or product of such species.

Grizzly bear accompanied by young means any grizzly bear having offspring, including one or more cubs, yearlings, or 2-year-olds, in its immediate vicinity.

Identified means permanently marked or documented so as to be identifiable by law enforcement officials at a subsequent date.

State, Federal or Tribal authority means an employee of State, Federal, or Indian Tribal government who, as part of his/her official duties, normally handles grizzly bears.

Young grizzly bear means a cub, yearling, or 2-year-old grizzly bear.



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(c) *Primates.* (1) Except as noted in paragraphs (c)(2) and (c)(3) of this section, all provisions of §17.31 shall apply to the lesser slow loris, *Nycticebus pygmaeus*; Philippine tarsier, *Tarsius syrichta*; white-footed tamarin, *Saguinus leucopus*; black howler monkey, *Alouatta pigra*; stump-tailed macaque, *Macaca arctoides*; gelada baboon, *Theropithecus gelada*; Formosan rock macaque, *Macaca cyclopis*; Japanese macaque, *Macaca fuscata*; Toque macaque, *Macaca sinica*; long-tailed langur, *Presbytis potenziani*; purple-faced langur, *Presbytis senex*; Tonkin snub-nosed langur, *Pygathrix (Rhinopithecus) avunculus*; and, in captivity only, chimpanzee, *Pan troglodytes.*

(2) The prohibitions referred to above do not apply to any live member of such species held in captivity in the United States on the effective date of the final rulemaking, or to the progeny of such animals, or to the progeny of animals legally imported into the United States after the effective date of the final rulemaking, *Provided,* That the person wishing to engage in any activity which would otherwise be prohibited must be able to show satisfactory documentary or other evidence as to the captive status of the particular member of the species on the effective date of this rulemaking or that the particular member of the species was born in captivity in the United States after the effective date of this rulemaking. Identification of the particular member to a record in the International Species Inventory System (ISIS), or to a Federal, State or local government permit, shall be deemed to be satisfactory evidence. Records in the form of studbooks or inventories, kept in the normal course of business, shall be acceptable as evidence, provided that a notarized statement is inserted in such record to the effect that:

(i) The records were kept in the normal course of business prior to November 18, 1976, and accurately identify (by use of markers, tags, or other acceptable marking devices) individual animals; or

(ii) That the individual animal identified by the records was born in captivity on ____(Date).

The notarized statement in paragraph (c)(2)(i) of this section, shall be acceptable only if the notarization is dated on or before January 3, 1977. The notarized statement in paragraph (c)(2)(ii), of this section, shall be acceptable only if the notarization is dated within 15 days of the date of birth of the animal.

(3) The provisions of §§17.21, 17.22, and 17.23 shall apply to any individual chimpanzee (*Pan troglodytes*) within the historic range of the species, regardless of whether in the wild or captivity, and also shall apply to any individual chimpanzee not within this range, but which has originated within this range after the effective date of these regulations, and also shall apply to the progeny of any such chimpanzee, other than to the progeny of animals legally imported into the United States after the effective date of these regulations. For the purposes of this paragraph, the historic range of the chimpanzee shall consist of the following countries: Angola, Benin, Burkina Faso, Burundi, Cameroon, Central African Republic, Congo, Cote d'Ivoire, Equatorial Guinea, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Liberia, Mali, Nigeria, Rwanda, Senegal, Sierra Leone, Sudan, Tanzania, Togo, Uganda, and Zaire.

(d) Gray wolf *(Canis lupus)* in Minnesota—(1) *Zones.* For purposes of these regulations, the State of Minnesota is divided into the following five zones.

Zone 1—4,488 Square Miles

Beginning at the point of intersection of United States and Canadian boundaries in Section 22, Township 71 North, Range 22 West, in Rainy Lake, then proceeding along the west side of Sections 22, 27, and 34 in said Township and Sections 3, 10, 15, 22, 27 and 34 in Township 70 North, Range 22 West and Sections 3 and 10 in Township 69 North, Range 22 West; then east along the south boundaries of Sections 10, 11, and 12 in said Township; then south along the Koochiching and St. Louis counties line to Highway 53; thence southeasterly along State Highway 53 to the junction with County Route 765; thence easterly along County Route 765 to the junction with Kabetogama Lake in Ash River Bay; thence along the south boundary of Section 33 in Township 69 North, Range 19 West, to the junction with the Moose River; thence southeasterly along the Moose River to Moose Lake; thence along the western shore of Moose Lake to the river between Moose Lake and Long Lake; thence along the said river to Long Lake; thence along the east shore of Long Lake to the drainage on the southeast side of Long Lake in NE 1/4, Section 18, Township 67 North, Range 18 West; thence along the said drainage southeasterly and subsequently northeasterly to Marion Lake, the drainage being in Sections 17 and 18, Township 67 North, Range 18 West; thence along the west shoreline of Marion Lake proceeding southeasterly to the Moose Creek; thence along Moose Creek to Flap Creek; thence southeasterly along Flap Creek to the Vermilion River; thence southerly along the Vermilion River to Vermilion Lake; thence along the Superior National Forest boundary in a southeasterly direction through Vermilion Lake passing these points: Oak Narrows, Muskrat Channel, South of Pine Island, to Hoodo Point and the junction with County Route 697; thence southeasterly on County Route 697 to the junction with State Highway 169; thence easterly along State Highway 169 to the junction with State Highway 1; thence easterly along State Highway 1 to the junction with the Erie Railroad tracks at Murphy City; thence easterly along the Erie Railroad tracks to the junction with Lake Superior at Taconite Harbor; thence northeasterly along the North Shore of Lake Superior to the Canadian Border; thence westerly along the Canadian Border to the point of beginning in Rainy Lake.

Zone 2—1,856 Square Miles

Beginning at the intersection of the Erie Mining Co. Railroad and State Highway 1 (Murphy City); thence southeasterly on State Highway 1 to the junction with County Road 4; thence southwesterly on County Road 4 to the State Snowmobile Trail (formerly the Alger-Smith Railroad); thence southwesterly to the intersection of the Old Railroad Grade and Reserve Mining Co. Railroad in Section 33 of Township 56 North, Range 9 West; thence northwesterly along the Railroad to Forest Road 107; thence westerly along Forest Road 107 to Forest Road 203; thence westerly along Forest

Road 203 to the junction with County Route 2; thence in a northerly direction on County Route 2 to the junction with Forest Road 122; thence in a westerly direction along Forest Road 122 to the junction with the Duluth, Missable and Iron Range Railroad; thence in a southwesterly direction along the said railroad tracks to the junction with County Route 14; thence in a northwesterly direction along County Route 14 to the junction with County Route 55; thence in a westerly direction along County Route 55 to the junction with County Route 44; thence in a southerly direction along County Route 44 to the junction with County Route 266; thence in a southeasterly direction along County Route 266 and subsequently in a westerly direction to the junction with County Road 44; thence in a northerly direction on County Road 44 to the junction with Township Road 2815; thence westerly along Township Road 2815 to Alden Lake; thence northwesterly across Alden Lake to the inlet of the Cloquet River; thence northerly along the Cloquet River to the junction with Carrol Trail-State Forestry Road; thence west along the Carrol Trail to the junction with County Route 4 and County Route 49; thence west along County Route 49 to the junction with the Duluth, Winnipeg and Pacific Railroad; thence in a northerly direction along said Railroad to the junction with the Whiteface River; thence in a northeasterly direction along the Whiteface River to the Whiteface Reservoir; thence along the western shore of the Whiteface Reservoir to the junction with County Route 340; thence north along County Route 340 to the junction with County Route 16; thence east along County Route 16 to the junction with County Route 346; thence in a northerly direction along County Route 346 to the junction with County Route 569; thence along County Route 569 to the junction with County Route 565; thence in a westerly direction along County Route 565 to the junction with County Route 110; thence in a westerly direction along County Route 110 to the junction with County Route 100; thence in a north and subsequent west direction along County Route 100 to the junction with State Highway 135; thence in a northerly direction along State Highway 135 to the junction with State Highway 169 at Tower; thence in an easterly direction along the southern boundary of Zone 1 to the point of beginning of Zone 2 at the junction of the Erie Railroad Tracks and State Highway 1.

Zone 3—3,501 Square Miles

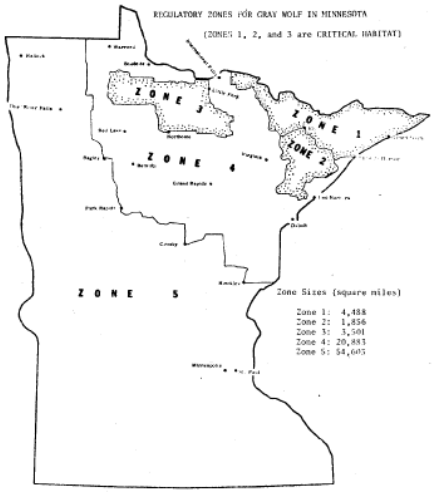
Beginning at the junction of State Highway 11 and State Highway 65; thence southeasterly along State Highway 65 to the junction with State Highway 1; thence westerly along State Highway 1 to the junction with State Highway 72; thence north along State Highway 72 to the junction with an un-numbered township road beginning in the northeast corner of Section 25, Township 155 North, Range 31 West; thence westerly along the said road for approximately seven (7) miles to the junction with SFR 95: thence westerly along SFR 95 and continuing west through the southern boundary of Sections 36 through 31, Township 155 North, Range 33 West, through Sections 36 through 31, Township 155 North, Range 34 West, through Sections 36 through 31, Township 155 North, Range 35 West, through Sections 36 and 35, Township 155 North, Range 36 West to the junction with State Highway 89, thence northwesterly along State Highway 89 to the junction with County Route 44; thence northerly along County Route 44 to the junction with County Route 704; thence northerly along County 704 to the junction with SFR 49; thence northerly along SFR 49 to the junction with SFR 57; thence easterly along SFR 57 to the junction with SFR 63: thence south along SFR 63 to the junction with SFR 70; thence easterly along SFR 70 to the junction with County Route 87; thence easterly along County Route 87 to the junction with County Route 1; thence south along County Route 1 to the junction with County Route 16; thence easterly along County Route 16 to the junction with State Highway 72; thence south on State Highway 72 to the junction with a gravel road (un-numbered County District Road) on the north side of Section 31, Township 158 North, Range 30 West; thence east on said District Road to the junction with SFR 62; thence easterly on SFR 62 to the junction with SFR 175; thence south on SFR 175 to the junction with County Route 101; thence easterly on County Route 101 to the junction with County Route 11; thence easterly on County Route 11 to the junction with State Highway 11; thence easterly on State Highway 11 to the junction with State Highway 65, the point of beginning.

Zone 4—20,883 Square Miles

Excluding Zones 1, 2 and 3, all that part of Minnesota north and east of a line beginning on State Trunk Highway 48 at the eastern boundary of the state; thence westerly along Highway 48 to Interstate Highway 35; thence northerly on I–35 to State Highway 23, thence west one-half mile on Highway 23 to State Trunk Highway 18; thence westerly along Highway 18 to State Trunk Highway 65, thence northerly on Highway 65 to State Trunk Highway 210; thence westerly along Highway 210 to State Trunk Highway 6; thence northerly on State Trunk Highway 6 to Emily; thence westerly along County State Aid Highway (CSAH) 1, Crow Wing County, to CSAH 2, Cass County; thence westerly along CSAH 2 to Pine River; thence northwesterly along State Trunk Highway 371 to Backus; thence westerly along State Trunk Highway 87 to U.S. Highway 71; thence northerly along U. S. 71 to State Trunk Highway 200; thence northwesterly along Highway 200, to County State Aid Highway (CSAH) 2, Clearwater County; thence northerly along CSAH 2 to Shevlin; thence along U. S. Highway 2 to Bagley; thence northerly along State Trunk Highway 92 to Gully; thence northerly along CSAH 2, Polk County, to CSAH 27, Pennington County; thence along CSAH 27 to State Trunk Highway 1; thence easterly on Highway 1 to CSAH 28, Pennington County; thence northerly along CSAH 28 to CSAH 54, Marshall County, thence northerly along CSAH 54 to Grygla; thence west and northerly along Highway 89 to Roseau; thence northerly along State Truck Highway 310 to the Canadian border.

Zone 5—54,603 Square Miles

All that part of Minnesota south and west of the line described as the south and west border of Zone 4.



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(2) *Prohibitions.* The following prohibitions apply to the gray wolf in Minnesota.

(i) *Taking.* Except as provided in this paragraph (d)(2)(i) of this section, no person may take a gray wolf in Minnesota.

(A) Any person may take a gray wolf in Minnesota in defense of his own life or the lives of others.

(B) Any employee or agent of the Service, any other Federal land management agency, or the Minnesota Department of Natural Resources, who is designated by his/her agency for such purposes, may, when acting in the course of his/her official duties, take a gray wolf in Minnesota without a permit if such action is necessary to:

(*1*) Aid a sick, injured or orphaned specimen; or

(*2*) Dispose of a dead specimen; or

(*3*) Salvage a dead specimen which may be useful for scientific study.

(*4*) Designated employees or agents of the Service or the Minnesota Department of Natural Resources may take a gray wolf without a permit in Minnesota, in zones 2, 3, 4, and 5, as delineated in paragraph (d)(1) of this section, in response to depredations by a gray wolf on lawfully present domestic animals: *Provided,* that such taking must occur within one-half mile of the place where such depredation occurred and must be performed in a humane manner: *And provided further,* that any young of the year taken on or before August 1 of that year must be released.

(C) Any employee or agent of the Service or the Minnesota Department of Natural Resources, when operating under a Cooperative Agreement with the Service signed in accordance with section 6(c) of the Endangered Species Act of 1973, who is designated by the Service or the Minnesota Department of Natural Resources for such purposes, may, when acting in the course of his or her official duties, take a gray wolf in Minnesota to carry out scientific research or conservation programs.

(ii) *Export and commercial transactions.* Except as may be authorized by a permit issued under §17.32, no person may sell or offer for sale in interstate commerce, import or export, or in the course of a commercial activity transport, ship, carry, deliver, or receive any Minnesota gray wolf.

(iii) *Unlawfully taken wolves.* No person may possess, sell, deliver, carry, transport, or ship, by any means whatsoever, a gray wolf taken unlawfully in Minnesota, except that an employee or agent of the Service, or any other Federal land management agency, or the Minnesota Department of Natural Resources, who is designated by his/her agency for such purposes, may, when acting in the course of his official duties, possess, deliver, carry, transport, or ship a gray wolf taken unlawfully in Minnesota.

(3) *Permits.* All permits available under §17.32 (General Permits—Threatened Wildlife) are available with regard to the gray wolf in Minnesota. All the terms and provisions of §17.32 apply to such permits issued under the authority of this paragraph (d)(3).

(e) African elephant (*Loxodonta africana*)—(1) *Definitions.* For the purposes of this paragraph (e):

(i) *African elephant* shall mean any member of the species *Loxodonta africana,* whether live or dead, and any part or product thereof.

(ii) *Raw ivory* means any African elephant tusk, and any piece thereof, the surface of which, polished or unpolished, is unaltered or minimally carved.

(iii) *Worked ivory* means any African elephant tusk, and any piece thereof, which is not raw ivory.

(iv) *Lip mark area* means that area of a whole African elephant tusk where the tusk emerges from the skull and which is usually denoted by a prominent ring of staining on the tusk in its natural state.

(2) *Prohibitions.* Except as provided in the exceptions in paragraph (e)(3) of this section, it shall be unlawful for any person to:

(i) Import or export any African elephant,

(ii) Possess, sell or offer for sale, receive, deliver, transport ship, or export any African elephant which was illegally imported into the United States,

(iii) Sell or offer for sale any sport-hunted trophy imported into the United States in violation of permit conditions.

(3) *Exceptions.* (i) African elephants, other than sport-hunted trophies and raw and worked ivory, may be imported or exported provided all permit requirements of 50 CFR parts 13 and 23 have been complied with.

(ii) *Ivory.* (A) Raw or worked ivory (other than sport-hunted trophies) may be imported only if:

(*1*) It is a bona fide antique of greater than 100 years of age on the day of import, or

(*2*) It was exported from the United States after being registered with the U.S. Fish and Wildlife Service.

(B) Worked ivory may be exported in accordance with the permit requirements of 50 CFR parts 13 and 23.

(C) Raw ivory may not be exported from the United States for commercial purposes under any circumstances.

(iii) Sport-hunted trophies may be imported into the United States provided:

(A) The trophy originates in a country for which the Service has received notice of that country's African elephant ivory quota for the year of export;

(B) All of the permit requirements of 50 CFR parts 13 and 23 have been complied with;

(C) A determination is made that the killing of the animal whose trophy is intended for import would enhance survival of the species; and

(D) The trophy is legibly marked by means of punch-dies, under a marking and registration system established by the country of origin, that includes the following information: Country of origin represented by the two-letter code established by the International Organization for Standardization (see appendix A to chapter I) followed by the registration number assigned to the last two digits of the year of registration and the weight of raw ivory to the nearest kilogram. Any mark must be placed on the lip mark area and indicated by a flash of color which serves as a background for such mark.

(f) *Leopard.* (1) Except as noted in paragraph (f)(2) of this section, all prohibitions of §17.31 of this part and exemptions of §17.32 of this part shall apply to the leopard populations occurring in southern Africa to the south of a line running along the borders of the following countries: Gabon/Rio Muni; Gabon/Cameroon; Congo/Cameroon; Congo/Central African Republic; Zaire/Central African Republic; Zaire/Sudan; Uganda/Sudan; Kenya/Sudan; Kenya/Ethiopia; Kenya/Somalia.

(2) A sport-hunted leopard trophy legally taken after the effective date of this rulemaking, from the area south of the line delineated above, may be imported into the United States without a Threatened Species permit pursuant to §17.32 of this part, provided that the applicable provisions of 50 CFR part 23 have been met.

(g) Utah prairie dog (*Cynomys parvidens*). (1) Except as noted in paragraph (g)(2) of this section, all prohibitions of 50 CFR 17.31 (a) and (b), and exemptions of 50 CFR 17.32 shall apply to the Utah prairie dog.

(2) A Utah prairie dog may be taken on private land throughout its range under a permit issued by the Utah Division of Wildlife Resources, in accordance with the laws of the State of Utah, provided that such taking does not exceed 6,000 animals annually and that such taking is confined to the period from June 1 to December 31. Records on permitted take maintained by the State shall be made available to the U.S. Fish and Wildlife Service on request.

(3) If the Service receives substantive evidence that takings pursuant to paragraph (g)(2) of this section are having an effect that is inconsistent with the conservation of the Utah prairie dog, the Service may immediately prohibit or restrict such taking as appropriate for the conservation of the species.

(h) Mountain lion (*Felis concolor*). (1) Except as allowed in paragraphs (h)(2), (h)(3), and (h)(4) of this section, no person shall take any free-living mountain lion (*Felis concolor*) in Florida.

(2) A mountain lion (*Felis concolor*) may be taken in this area under a valid threatened species permit issued pursuant to 50 CFR 17.52.

(3) A mountain lion (*Felis concolor*) may be taken in Florida by an employee or designated agent of the Service or the Florida Game and Fresh Water Fish Commission for taxonomic identification or other reasons consistent with the conservation of the endangered Florida panther (*Felis concolor coryi*). When it has been established by the Service, in consultation with the State, that an animal in question is not a Florida panther (*Felis concolor coryi*) or an eastern cougar (*Felis concolor couguar*), such animals may be removed from the wild. The disposition of animals so taken shall be at the discretion of the Florida Game and Fresh Water Fish Commission, with the concurrence of the Fish and Wildlife Service.

(4) Take for reasons of human safety is allowed as specified under 50 CFR 17.21(c)(2) and 17.21(c)(3)(iv).

(5) Any take pursuant to paragraph (h)(4) of this section must be reported in writing to the U.S. Fish and Wildlife Service, Division of Law Enforcement, P.O. Box 3247, Arlington, Virginia 22203, within 5 days. The specimen may only be retained, disposed of, or salvaged in accordance with directions from the Service.

(i) Louisiana black bear (*Ursus americanus luteolus*). (1) Except as noted in paragraph (i)(2) of this section, all prohibitions of §17.31 and exemptions of §17.32 shall apply to any black bear within the historic range of the Louisiana black bear (Texas, Louisiana and Mississippi).

(2) Subsection 17.40(i)(1) and §17.31 shall not prohibit effects incidental to normal forest management activities within the historic range of the Louisiana black bear except for activities causing damage to or loss of den trees, den tree sites or candidate den trees. For purposes of this exemption, normal forest management activities are defined as those activities that support a sustained yield of timber products and wildlife habitats, thereby maintaining forestland conditions in occupied habitat. For purposes of this special rule, candidate den trees are considered to be bald cypress and tupelo gum with visible cavities, having a minimum diameter at breast height (DBH) of 36 inches, and

occurring in or along rivers, lakes, streams, bayous, sloughs, or other water bodies.

(3) This express exemption for normal forest management activities provided by this special rule is subject to modification or withdrawal if the Service determines that this provision fails to further the conservation of the Louisiana black bear.

(j) Argali (*Ovis ammon*) in Kyrgyzstan, Mongolia, and Tajikistan—(1) Except as noted in paragraph (j)(2) of this section, all prohibitions of §17.31 of this part and exemptions of §17.32 of this part shall apply to this species in Kyrgyzstan, Mongolia, and Tajikistan

(Note—

In all other parts of its range the argali is classified as endangered and covered by §17.21).

(2) Upon receiving from the governments of Kyrgyzstan, Mongolia, and Tajikistan properly documented and verifiable certification that (i) argali populations in those countries are sufficiently large to sustain sport hunting, (ii) regulating authorities have the capacity to obtain sound data on these populations, (iii) regulating authorities recognize these populations as a valuable resource and have the legal and practical capacity to manage them as such, (iv) the habitat of these populations is secure, (v) regulating authorities can ensure that the involved trophies have in fact been legally taken from the specified populations, and (vi) funds derived from the involved sport hunting are applied primarily to argali conservation, the Director may, consistent with the purposes of the Act, authorize by publication of a notice in the Federal Register the importation of personal sport-hunted argali trophies, taken legally in Kyrgyzstan, Mongolia, and Tajikistan after the date of such notice, without a Threatened Species permit pursuant to §17.32 of this part, provided that the applicable provisions of 50 CFR part 23 have been met.

(k) Canada lynx (*Lynx canadensis*).

(1) *What lynx does this special rule apply to?* The regulations in this paragraph (k) apply to all wild and captive lynx in the contiguous United States.

(2) *What activities are prohibited for wild lynx?* All prohibitions and provisions of 50 CFR 17.31 and 17.32 apply to wild lynx found in the contiguous United States.

(3) *What is considered a captive lynx*?

(i) For purposes of this paragraph (k), captive lynx means lynx, whether alive or dead, and any part or product, if the specimen was in captivity at the time of the listing, born in captivity, or lawfully imported or transported into the contiguous United States.

(ii) Lynx that were either born or held in captivity and then released into the wild are considered wild.

(4) *What activities are allowed for captive lynx*?

(i) *Take.* You may take lawfully obtained captive lynx without a permit.

(ii) *Import and export.* You may export captive live lynx, parts or products of captive lynx provided the specimens are tagged with Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) export tags and/or accompanied by a valid CITES export permit. You may import lawfully obtained lynx that originated outside the United States when you follow the requirements of CITES.

(iii) *Interstate commerce.* You may deliver, receive, carry, transport, ship, sell, offer to sell, purchase, or offer to purchase in interstate commerce captive lynx and captive lynx parts and products in accordance with State or tribal laws and regulations. In addition, lynx pelts that are properly tagged with valid CITES export tags also qualify for this exemption on interstate commerce.

(5) *Are any activities not allowed or restricted for captive lynx*? You must comply with all applicable State and tribal laws and regulations. Violation of State or tribal law will also be a violation of the Act.

(m) *Vicuña.* This paragraph (m) applies to the threatened vicuña *(Vicugna vicugna).*

(1) *What activities involving vicuña are prohibited by this rule?* (i) *Appendix I populations.* All provisions of §17.31 (a) and (b) and §17.32 apply to vicuña and vicuña parts and products originating from populations currently listed in Appendix I of the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES).

(ii) *Import, export, and re-export.* Except as provided in paragraph (m)(2) of this section, you must not import, export, or re-export, or present for export or re-export without valid CITES permits vicuña or vicuña parts and products originating from populations listed in Appendix II of CITES.

(iii) *Commercial activity.* Except as provided in paragraph (m)(2) of this section, you must not sell or offer for sale, deliver, receive, carry, transport, or ship in interstate or foreign commerce in the course of a commercial activity vicuña or vicuña parts and products from populations listed in Appendix II of CITES.

(iv) It is unlawful for any person subject to the jurisdiction of the United States to commit, attempt to commit, solicit to commit, or cause to be committed any acts described in paragraphs (m)(1)(ii)-(iii) of this section.

(2) *What activities involving vicuña are allowed by this rule?* You may import, export, or re-export, or place in interstate or foreign commerce, vicuña products, consisting of either raw fiber or items and cloth made, or partially made, from vicuña fiber, without a threatened species permit issued according to §17.32 only when the provisions in parts 13, 14, and 23 of this chapter and the requirements of the applicable subparagraphs of this paragraph (m)(2) have been met:

(i) *Import, export, or re-export.* You may import, export, or re-export into or from the United States vicuña products, consisting of either raw fiber or items and cloth made, or partially made, from vicuña fiber originating in a country authorized under paragraph (m)(4) of this section, provided the following conditions are met:

(A) The vicuña product must comply with all CITES product annotations as given in the CITES Secretariat's official list of the CITES Appendices, and all imports, exports, and re-exports must be

identified as follows:

(*1*) *Cloth and cloth products:* The reverse side of cloth and cloth products must bear the logo adopted by countries signatory to the “Conveño para la Conservación y Manejo de la Vicuña”, and the words “VICUÑA–(Country of Origin)” (where country of origin is the name of the original exporting country where the vicuña fiber in the products originated, either Argentina, Bolivia, or Chile) or “VICUÑA–PERU–ARTESANIA” (for Peru only).

(*2*) *Finished vicuña products (including luxury handicrafts and knitted articles) and any bulk shipments of raw fiber:* The product or shipment must have a seal or identification tag with codes describing the origin of the vicuña product, the trademark or label (“VICUÑA–(Country of Origin)” (where country of origin is the name of the original exporting country where the vicuña fiber in the products originated, either Argentina, Bolivia, or Chile) or “VICUÑA–PERU–ARTESANIA” (for Peru only), and the CITES export permit number, where country of origin is the name of the original exporting country where the vicuña fiber in the products originated.

(B) The shipment must be accompanied by a CITES permit or certificate that contains the following information:

(*1*) The country of origin, its export permit number, and date of issuance.

(*2*) If re-export, the country of re-export, its certificate number, and date of issuance.

(*3*) If applicable, the country of last re-export, its certificate number, and date of issuance.

(C) At the time of import, for each shipment covered by this exception, the country of origin and each country of re-export involved in the trade of a particular shipment must have designated both a CITES Management Authority and Scientific Authority, and have not been identified by the CITES Conference of the Parties, the CITES Standing Committee, or in a Notification from the CITES Secretariat as a country from which Parties should not accept permits. A listing of all countries that have not designated both a Management Authority and Scientific Authority, or that have been identified as a country from which Parties should not accept permits is available by writing: The Division of Management Authority, ARLSQ Room 700, 4401 N. Fairfax Drive, U.S. Fish and Wildlife Service, Arlington, VA 22203. The list is also on our website (http://international.fws.gov).

(ii) *Noncommercial accompanying baggage*. The conditions described in paragraph (m)(2)(i) of this section also apply to noncommercial personal effects in accompanying baggage or household effects from Appendix II populations. Such items are treated the same as Appendix II commercial shipments, and must comply with the same documentary requirements. All other noncommercial personal effects in accompanying baggage or household effects require both a CITES Appendix I permit and a permit as described in §17.32.

(iii) *Embryos, gametes, blood, other tissue samples, and live animals.* This special rule does not apply to embryos, gametes, blood, or other tissue samples of vicuña, or to live vicuña. Import of such specimens requires an import permit as described in §17.32 in addition to CITES Appendix I import and export permits, and will be issued only for bona fide scientific research contributing to conservation of the species in the wild.

(3) *When and how will the Service inform the public of additional restrictions in trade of vicuña?* Except in rare cases involving extenuating circumstances that do not adversely affect the conservation of the species, we will issue an information notice that identifies a restriction on trade in specimens of vicuña addressed in this paragraph (m) if any of the following criteria are met:

(i) The country is listed in a Notification to the Parties by the CITES Secretariat as lacking a designated Management or Scientific Authority that issues CITES documents or their equivalent.

(ii) The country is identified in any action adopted by the Conference of the Parties to the Convention, the Convention's Standing Committee, or in a Notification issued by the CITES Secretariat, whereby Parties are asked not to accept shipments of specimens of any CITES-listed species from the country in question.

(iii) The Service's Division of Scientific Authority administratively determines that the conservation or management status of threatened vicuña populations in a range country has changed, such that continued recovery of the vicuña population in that country may be compromised, as a result of one or more of the following factors:

(A) A change in range country laws or regulations that lessens protection for vicuña;

(B) A change in range country management programs that lessens protection for vicuña;

(C) A documented decline in wild vicuña population numbers;

(D) A documented increase in poaching of vicuña;

(E) A documented decline in vicuña habitat quality or quantity; or

(F) Other natural or man-made factors affecting the species' recovery.

(iv) A listing of all countries that have not designated both a Management Authority and Scientific Authority, or that have been identified as a country from which Parties should not accept permits is available by writing: The Division of Management Authority, ARLSQ Room 700, 4401 N. Fairfax Drive, U.S. Fish and Wildlife Service, Arlington, VA 22203. The list is also on our website (http://international.fws.gov).

(4) *What must vicuña range countries do in order to be authorized under the special rule to export to the United States?* (i) *Annual Report.* Range country governments (Argentina, Bolivia, Chile, and Peru) wishing to export specimens of vicuña to the United States will need to provide an annual report containing the most recent information available on the status of the species, following the information guidelines specified below. The first submission of a status report will be required as of July 1, 2003, and every year thereafter on the anniversary of that date. For each range country, the following information should be provided in the annual report:

(A) A description of any revisions to the management program, especially any changes in management approaches or emphasis;

(B) New information obtained in the last year on vicuña distribution, population status, or population trends, for the country as a whole or for specific protected areas, and a detailed description of the methodology used to obtain such information;

(C) Results of any research projects concluded in the last year on the biology of vicuña in the wild, particularly its population biology, habitat use, and genetics, and a description of any new research projects undertaken on the biology of vicuña in the wild, particularly its population biology, habitat use, and genetics;

(D) A description of any changes to national and/or provincial laws and programs relating to vicuña conservation, in particular those laws and regulations related to harvest and use of the vicuña, and export of vicuña parts and products;

(E) A description of any changes in the number or size of natural reserves or national parks that provide protected habitat for the vicuña;

(E) A summary of law enforcement activities undertaken in the last year, and a description of any changes in programs to prevent poaching, smuggling, and illegal commercialization of the vicuña;

(F) A description of the current management and harvest (or “sustainable use”) programs for wild populations of the vicuña, including: any changes in the location and population size of wild populations being managed for sustainable use; any changes in the harvest management practices being used for each population; any changes in current harvest quotas for wild populations, if any; any changes in protocols for translocations undertaken as part of the use program; a summary of the specific financial costs of and revenues generated by the sustainable use program over the last year; and a summary of documented conservation benefits resulting from the sustainable use program over the last year;

(G) A description of current management and harvest (or “sustainable use”) programs for captive and so-called “semi-captive” populations of the vicuña, including: any changes in the number and location of all captive and “semi-captive” populations; any changes in the size (ha) of each captive enclosure and the number of vicuña maintained therein; any changes in protocols for translocations undertaken as part of the use program; a summary of the financial costs of and revenues generated by the sustainable use program over the last year; and documented conservation benefits resulting from the sustainable use program over the last year (information on captive and “semi-captive” populations must be separate from that provided for wild populations); and

(H) Export data for the last year.

(ii) The Service's Division of Scientific Authority will conduct a review every 2 years, using information in the annual reports, to determine whether range country management programs are effectively achieving conservation benefits for the vicuña. Failure to submit an annual report could result in a restriction on trade in specimens of vicuña as addressed in paragraph (m)(3) of this section. Based on information contained in the annual reports and any other pertinent information it has available, the Service may restrict trade from a range country, as addressed in paragraph (m)(3) of this section, if it determines that the conservation or management status of threatened vicuña populations in a range country has changed, such that continued recovery of the vicuña population in that country may be compromised. Trade restrictions may result from one or more of the following factors:

(A) A change in range country laws or regulations that lessens protection for vicuña;

(B) A change in range country management programs that lessens protection for vicuña;

(C) A documented decline in wild vicuña population numbers;

(D) A documented increase in poaching of vicuña;

(E) A documented decline in vicuña habitat quality or quantity; or

(F) Other natural or man-made factors affecting the species' recovery.

(n) Gray wolf (*Canis lupus*) in Washington, Oregon, California, Idaho, Nevada, Montana, Utah north of U.S. Highway 50, and Colorado north of Interstate Highway 70, except where listed as an experimental population.

(1) *Application of this special rule to the experimental populations located in Idaho, Montana, and Wyoming.* Paragraphs (n) (2) through (6) of this section do not apply to gray wolves within the experimental populations areas in Idaho, Montana, and Wyoming established under section 10(j) of the Act and delineated in §17.84(i).

(2) *Definitions of terms used in paragraph (n) of this section.*

(i) *Active den site.* A den or a specific aboveground site that is being used on a daily basis by wolves to raise newborn pups during the period April 1 to June 30.

(ii) *Breeding pair.* An adult male and an adult female wolf that, during the previous breeding season, have produced at least two pups that survived until December 31 of the year of their birth.

(iii) *Domestic animals.* Animals that have been selectively bred over many generations to enhance specific traits for their use by humans, including use as pets. This includes livestock (as defined below) and dogs.

(iv) *Livestock.* Cattle, sheep, horses, mules, and herding or guard animals (llamas, donkeys, and certain special-use breeds of dogs commonly used for guarding or herding livestock) or as otherwise defined in State and tribal wolf management plans as approved by the Service. This excludes dogs that are not being used for livestock guarding or herding.

(v) *Noninjurious.* Does not cause either temporary or permanent physical damage or death.

(vi) *Opportunistic harassment.* Harassment without the conduct of prior purposeful actions to attract, track, wait for, or search out the wolf.

(vii) *Problem wolves.* Wolves that attack livestock, or wolves that twice in a calendar year attack domestic animals other than livestock.

(viii) *Public land.* Federal land and any other public land designated in State and tribal wolf management plans as approved by the Service.

(ix) *Remove.* Place in captivity or kill or release in another location.

(x) *Wounded.* Exhibiting torn flesh and bleeding or other evidence of physical damage caused by a wolf bite.

(3) *Allowable forms of take of gray wolves.* The following activities, only in the specific circumstances described in paragraph (n) of this section, are allowed: opportunistic harassment; intentional harassment; taking on private land; taking on public land; taking in response to impacts on wild ungulates; taking in defense of human life; taking to protect human safety; taking by government agents to remove problem wolves; incidental take; taking under permits; and taking per authorizations for agency employees. Other than as expressly provided in this rule, all the prohibitions of §17.31(a) and (b) apply, and all other take activities are considered a violation of section 9 of the Act. Any wolf, or wolf part, taken legally must be turned over to the Service unless otherwise specified in paragraph (n) of this section. Any taking of wolves must be reported to the Service as outlined in paragraph (n)(6) of this section.

(i) *Opportunistic harassment.* Landowners on their own land and livestock producers or permittees who are legally using public land under valid livestock grazing allotments may conduct opportunistic harassment of any gray wolf in a noninjurious manner at any time. Opportunistic harassment must be reported to the Service within 7 days as outlined in paragraph (n)(6) of this section.

(ii) *Intentional harassment.* After we or our designated agent have confirmed persistent wolf activity on privately owned land or on a public land grazing allotment, we may, pursuant to §17.32, issue a 90-day permit, with appropriate conditions, to any landowner to harass wolves in a potentially injurious manner (such as by projectiles designed to be nonlethal to larger mammals). The harassment must occur as specifically identified in the Service permit.

(iii) *Taking by landowners on private land.* Landowners may take wolves on privately owned land in the following two additional circumstances:

(A) Any landowner may take a gray wolf that is in the act of biting, wounding, or killing livestock or dogs, provided that the landowner provides evidence of animal(s) freshly (less than 24 hours) wounded or killed by wolves, and we or our designated agent are able to confirm that the animal(s) were wounded or killed by wolves. The taking of any wolf without such evidence may be referred to the appropriate authorities for prosecution.

(B) A private landowner may be issued a limited duration permit pursuant to §17.32 to take a gray wolf on the landowner's private land if:

(1) This private property or an adjacent private property has had at least two depredations by wolves on livestock or dogs that have been confirmed by us or our designated agent; and

(2) We or our designated agent have determined that wolves are routinely present on that private property and present a significant risk to the health and safety of livestock or dogs. The landowner must conduct the take in compliance with the permit issued by the Service.

(iv) *Take on public land.* Under the authority of §17.32, we may issue permits to take gray wolves under certain circumstances to livestock producers or permittees who are legally using public land under valid livestock grazing allotments. The permits, which may be valid for up to 45 days, can allow the take of a gray wolf that is in the act of killing, wounding, or biting livestock, after we or our designated agent have confirmed that wolves have previously wounded or killed livestock, and agency efforts to resolve the problem have been completed and were ineffective. We or our designated agent will investigate and determine if the previously wounded or killed livestock were wounded or killed by wolves. There must be evidence of livestock freshly wounded or killed by wolves. The taking of any wolf without such evidence may be referred to the appropriate authorities for prosecution.

(v) *Take in response to wild ungulate impacts.* If wolves are causing unacceptable impacts to wild ungulate populations, a State or tribe may capture and move wolves to other areas within the States identified in paragraph (n) of this section or experimental populations areas in Idaho, Montana, and Wyoming established under section 10(j) of the Act and delineated in §17.84(i). In order for this provision to apply, the States or tribes must define in their wolf management plan such unacceptable impacts, describe how they will be measured, and identify possible mitigation measures. Before wolves can be captured and moved, we must approve these plans and determine that such actions will not inhibit wolf population growth toward recovery levels. In addition, if, after 10 breeding pairs are established in the State, we determine that wolves are causing unacceptable impacts to wild ungulate populations, we may, in cooperation with the appropriate State fish and game agencies or tribes, capture and move wolves to other areas within the States identified in paragraph (n) of this section or experimental populations areas in Idaho, Montana, and Wyoming.

(vi) *Take in defense of human life.* Any person may take a gray wolf in defense of the individual's life or the life of another person. The unauthorized taking of a wolf without an immediate and direct threat to human life may be referred to the appropriate authorities for prosecution.

(vii) *Take to protect human safety.* We or a Federal land management agency or a State or tribal conservation agency may promptly remove any wolf that we or our designated agent determines to be a demonstrable but nonimmediate threat to human life or safety.

(viii) *Take of problem wolves by Service personnel or our designated agent.* We or our designated agent may carry out aversive conditioning, nonlethal control, relocation, permanent placement in captivity, or lethal control of problem wolves. If nonlethal depredation control activities occurring on public lands result in the capture, prior to October 1, of a female wolf showing signs that she is still raising pups of the year (e.g., evidence of lactation, recent sightings with pups), whether or not she is captured with her pups, then she and her pups may be released at or near the site of capture. Female wolves with pups may be removed if continued depredation occurs. Problem wolves that depredate on domestic animals more than twice in a calendar year, including female wolves with pups regardless of whether on public or private lands, may be moved or removed from the wild. To determine the presence of problem wolves, we or our agents will consider all of the following:

(A) Evidence of wounded livestock or other domestic animals or remains of a carcass that shows that the injury or death was caused by wolves;

(B) The likelihood that additional losses may occur if no control action is taken;

(C) Any evidence of unusual attractants or artificial or intentional feeding of wolves; and

(D) Evidence that, on public lands, if animal husbandry practices were previously identified in existing approved allotment plans and annual operating plans for allotments, they were followed.

(ix) *Incidental take.* Take of a gray wolf is allowed if the take was accidental and incidental to an otherwise lawful activity and if reasonable due care was practiced to avoid such taking. Incidental take is not allowed if the take is not accidental or if reasonable due care was not practiced to avoid such taking; we may refer such taking to the appropriate authorities for prosecution. Shooters have the responsibility to identify their target before shooting. Shooting a wolf as a result of mistaking it for another species is not considered accidental and may be referred to the appropriate authorities for prosecution.

(x) *Take under permits.* Any person with a valid permit issued by the Service under §17.32 may take wolves in the wild, pursuant to terms of the permit.

(xi) *Additional taking authorizations for agency employees.* When acting in the course of official duties, any employee of the Service or appropriate Federal, State, or tribal agency, who is designated as an agent in writing for such purposes by the Service, may take a wolf or wolf-like canid for the following purposes; such take must be reported to the Service within 15 days as outlined in paragraph (n)(6) of this section and specimens may be retained or disposed of only in accordance with directions from the Service:

(A) Scientific purposes;

(B) Avoiding conflict with human activities;

(C) Improving wolf survival and recovery prospects;

(D) Aiding or euthanizing sick, injured, or orphaned wolves;

(E) Disposing of a dead specimen;

(F) Salvaging a dead specimen that may be used for scientific study;

(G) Aiding in law enforcement investigations involving wolves; or

(H) Preventing wolves with abnormal physical or behavioral characteristics, as determined by the Service, from passing on those traits to other wolves.

(4) *Prohibited take of gray wolves.* (i) Any manner of take not described under paragraph (n)(3) of this section.

(ii) No person may possess, sell, deliver, carry, transport, ship, import, or export by any means whatsoever, any wolf or wolf part from the State of origin taken in violation of the regulations in paragraph (n) of this section or in violation of applicable State or tribal fish and wildlife laws or regulations or the Act.

(iii) In addition to the offenses defined in paragraph (n) of this section, we consider any attempts to commit, solicitations of another to commit, or actions that cause to be committed any such offenses to be unlawful.

(iv) *Use of unlawfully taken wolves.* No person, except for an authorized person, may possess, deliver, carry, transport, or ship a gray wolf taken unlawfully.

(5) *Federal land use.* Restrictions on the use of any Federal lands may be put in place to prevent the take of wolves at active den sites between April 1 and June 30. Otherwise, no additional land-use restrictions on Federal lands, except for National Parks or National Wildlife Refuges, will be necessary to reduce or prevent take of wolves solely to benefit gray wolf recovery under the Act. This prohibition does not preclude restricting land use when necessary to reduce negative impacts of wolf restoration efforts on other endangered or threatened species.

(6) *Reporting requirements.* Except as otherwise specified in paragraph (n) of this section or in a permit issued under §17.32, any taking of a gray wolf must be reported to the Service within 24 hours. We will allow additional reasonable time if access to the site is limited. Report wolf takings, including opportunistic harassment, to U.S. Fish and Wildlife Service, Western Gray Wolf Recovery Coordinator (100 N. Park, #320, Helena, MT 59601; 406–449–5225 extension 204; facsimile 406–449–5339), or a Service-designated representative of another Federal, State, or tribal agency. Unless otherwise specified in paragraph (n) of this section, any wolf or wolf part, taken legally must be turned over to the Service, which will determine the disposition of any live or dead wolves.

(o) Gray wolf (*Canis lupus*) in North Dakota, South Dakota, Nebraska, Kansas, Iowa, Missouri, Wisconsin, Illinois, Michigan, Indiana, and Ohio.

(1) *Definitions of terms used in paragraph (o) of this section.*

(i) *Domestic animals.* Animals that have been selectively bred over many generations to enhance specific traits for their use by humans, including use as pets.

(ii) *Livestock.* Cattle, sheep, horses, and mules or as otherwise defined in State and tribal wolf management plans.

(2) *Allowable forms of take of gray wolves.* The following activities, in certain circumstances as described below, are allowed: Take in defense of human life; take to protect human safety; take to aid, salvage, or dispose; take for depredation control; take under cooperative agreements; and take under permit. As stated in §17.31(c), the provisions of this paragraph (o) contain all the applicable take prohibitions and exceptions; all other take activities in these States are considered a violation of section 9 of the Act. Any wolf, or wolf part, taken legally must be turned over to the Service unless otherwise specified in paragraph (o) of this section. Any taking of wolves must be reported to the Service as outlined in paragraph (o)(4) of this section.

(i) *Take in defense of human life.* Any person may take a gray wolf in defense of the individual's life or the life of another person. The unauthorized taking of a wolf without an immediate and direct threat to human life may be referred to the appropriate authorities for prosecution.

(ii) *Take to protect human safety.* We or a Federal land management agency or a State or tribal conservation agency, or an agent of one of these agencies who is designated in writing for such purpose, may promptly remove any wolf that the agency determines to be a demonstrable but nonimmediate threat to human life or safety.

(iii) *Allowable take for aiding, salvaging, or disposing of specimens.* When acting in the course of official duties, any authorized employee or agent of the Service, any other Federal land management agency or the wildlife conservation agency of a State or of a federally recognized Native American tribe, who is designated by his/her agency for such purposes, may take a gray wolf in the person's area of jurisdiction without a Federal permit if such action is necessary for the following purposes; such take must be reported to the Service within 15 days as outlined in paragraph (o)(4) of this section, and specimens may be retained or disposed of only in accordance with directions from the Service:

(A) Aiding a sick, injured, or orphaned specimen;

(B) Disposing of a dead specimen; or

(C) Salvaging a dead specimen that may be useful for scientific study or for traditional cultural purposes by Native American tribes.

(iv) *Allowable take for depredation control.* When acting in the course of official duties, any authorized employee or agent of the Service, of the wildlife conservation agency of a State, or of a federally recognized Native American tribe, who is designated by his/her agency for such purposes, may take a gray wolf or wolves within the person's State or, in the case of a tribal employee, within that person's Reservation boundaries, in response to depredation by a gray wolf on lawfully present livestock or domestic animals. However, such taking must be preceded by a determination by one of the agencies listed in paragraph (o) of this section that the depredation was likely to have been caused by a gray wolf and depredation at the site is likely to continue in the absence of a taking. In addition, such taking must be performed in a humane manner and occur within 1 mile of the place where the depredation occurred if in Michigan or Wisconsin, and within 4 miles of the place where the depredation occurred if in the remaining area covered by paragraph (o) of this section. Any young of the year taken by trapping on or before August 1 of that year must be released. Any take for depredation control must reported to the Service within 15 days as outlined in paragraph (o)(4) of this section. The specimen may be retained or disposed of only in accordance with directions from the Service.

(v) *Take under section 6 cooperative agreements.* When acting in the course of official duties, any authorized employee or agent of the State wildlife conservation agencies in the area covered by paragraph (o) of this section, who is designated by his/her agency for such purposes under a cooperative agreement under section 6 of the Act, may take a gray wolf in his/her respective State to carry out scientific research or conservation programs. Such takings must be reported to the Service as specified in the reporting provisions of the cooperative agreement.

(vi) *Take under permit.* Any person who has a permit under §17.32 may carry out activities as specified by the permit with regard to gray wolves in the area covered by paragraph (o) of this section.

(3) *Prohibited take of gray wolves.* (i) Any form of taking not described in paragraph (o)(2) of this section is prohibited.

(ii) *Export and commercial transactions.* Except as may be authorized by a permit issued under§17.32, no person may sell or offer for sale in interstate commerce, import or export, or, in the course of a commercial activity, transport or receive any gray wolves from the States, or portions thereof, covered by paragraph (o) of this section.

(iii) In addition to the offenses defined in paragraph (o) of this section, we consider any attempts to commit, solicitations of another to commit, or actions that cause to be committed any such offenses to be unlawful.

(iv) *Use of unlawfully taken wolves.* No person, except for an authorized person, may possess, deliver, carry, transport, or ship a gray wolf taken unlawfully in the area covered by paragraph (o) of this section.

(4) *Reporting requirements.* Except as otherwise specified in paragraph (o) of this section or in a permit issued under §17.32, any taking must be reported to the Service within 24 hours. Report wolf takings in North Dakota, South Dakota, Nebraska, and Kansas to 303–236–7540, and in Iowa, Missouri, Wisconsin, Illinois, Michigan, Indiana, and Ohio to 612–713–5320, or a Service-designated representative of another Federal, State, or tribal agency. (Individuals who are hearing-impaired or speech-impaired may call the Federal Relay Service at 1–800–877–8337.) Unless otherwise specified in paragraph (o) of this section, any wolf or wolf part, taken legally must be turned over to the Service, which will determine the disposition of any live or dead wolves.

(5) *Take regulations for States in the Eastern Gray Wolf Distinct Population Segment (DPS) not covered by this paragraph (o).* This special rule does not apply to the States of Minnesota, Pennsylvania, New Jersey, New York, Massachusetts, Connecticut, Rhode Island, Vermont, New Hampshire, and Maine. While these States are included in the Eastern DPS, this special regulation does not apply to the entire DPS, and it specifically does not apply to these 10 States. Gray wolves in these States, other than Minnesota, are covered by the prohibitions of §17.31(a) and (b), which apply to all threatened species that are not subject to a special regulation. Gray wolves in Minnesota are covered by a separate special regulation in paragraph (d) of this section.

[40 FR 44415, Sept. 26, 1975]

Editorial Note: For Federal Register citations affecting §17.40, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and on GPO Access.

§ 17.41 Special rules—birds.

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(a) Bald eagles (*Haliaeetus leucocephalus*) wherever listed as threatened under §17.11(h).

(1) *Applicable provisions.* All prohibitions and measures of §§17.31 and 17.32 shall apply to any threatened bald eagle, *except* that any permit issued under §21.22 or part 22 of this chapter shall be deemed to satisfy all requirements of §§17.31 and 17.32 for that authorized activity, and a second

permit shall not be required under §17.32. A permit is required under §17.32 for any activity not covered by any permit issued under §21.22 or part 22 of this chapter.

(2) [Reserved]

(b) Coastal California gnatcatcher *(Polioptila californica californica).* (1) Except as noted in paragraphs (b)(2) and (3) of this section, all prohibitions of §17.31(a) and (b) shall apply to the coastal California gnatcatcher.

(2) Incidental take of the coastal California gnatcatcher will not be considered a violation of section 9 of the Endangered Species Act of 1973, as amended (Act), if it results from activities conducted pursuant to the State of California's Natural Community Conservation Planning Act of 1991 (NCCP), and in accordance with a NCCP plan for the protection of coastal sage scrub habitat, prepared consistent with the State's NCCP Conservation and Process Guidelines, *provided that:*

(i) The NCCP plan has been prepared, approved, and implemented pursuant to California Fish and Game Code sections 2800–2840; and

(ii) The Fish and Wildlife Service (Service) has issued written concurrence that the NCCP plan meets the standards set forth in 50 CFR 17.32(b)(2). The Service shall issue its concurrence pursuant to the provisions of the Memorandum of Understanding (MOU), dated December 4, 1991, between the California Department of Fish and Game and the Service regarding coastal sage scrub natural community conservation planning in southern California. (Copies of the State's NCCP Conservation and Process Guidelines and the MOU are available from the U.S. Fish and Wildlife Service, Carlsbad Field Office, 2730 Loker Avenue West, Carlsbad, CA 92008.) The Service shall monitor the implementation of the NCCP plan and may revoke its concurrence under this paragraph (b)(2)(ii) if the NCCP plan, as implemented, fails to adhere to the standards set forth in 50 CFR 17.32(b)(2).

(3) During the period that a NCCP plan referred to in paragraph (b)(2) of this section is being prepared, incidental take of the coastal California gnatcatcher will not be a violation of section 9 of the Act if such take occurs within an area under the jurisdiction of a local government agency that is enrolled and actively engaged in the preparation of such a plan and such take results from activities conducted in accordance with the NCCP Conservation Guidelines and Process Guidelines.

(4) The Service will monitor the implementation of the NCCP Conservation and Process Guidelines as a whole, and will conduct a review every 6 months to determine whether the guidelines, as implemented, are effective in progressing toward or meeting regional and subregional conservation objectives during the interim planning period. If the Service determines that the guidelines are not effecting adequate progress toward or meeting regional and subregional conservation objectives, the Service will consult with the California Department of Fish and Game pursuant to the MOU to seek appropriate modification of the guidelines or their application as defined therein. If appropriate modification of the guidelines or their application as defined therein does not occur, the Service may revoke the interim take provisions of this special rule on a subregional or subarea basis. The Service will publish the findings for revocation in the Federal Register and provide for a 30-day public comment period prior to the effective date for revoking the provisions of the special rule in a particular area. Revocation would result in the reinstatement of the take prohibitions set forth under 50 CFR 17.31(a) and (b) in the affected NCCP area.

[43 FR 6233, Feb. 14, 1978, as amended at 58 FR 65095, Dec. 10, 1993; 60 FR 36010, July 12, 1995]

§ 17.42 Special rules—reptiles.

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(a) American alligator (*Alligator mississippiensis*)—(1) *Definitions.* For purpose of this paragraph (a): "American alligator" shall mean any member of the species *Alligator mississippiensis,* whether alive or dead, and any part, product, egg, or offspring thereof found in captivity or the wild.

(2) *Taking.* No person may take any American alligator, except:

(i) Any employee or agent of the Service, any other Federal land management agency, or a State conservation agency, who is designated by the agency for such purposes, may, when acting in the course of official duties, take an American alligator.

(ii) Any person may take an American alligator in the wild, or one which was born in captivity or lawfully placed in captivity, and may deliver, receive, carry, transport, ship, sell, offer to sell, purchase, or offer to purchase such alligator in interstate or foreign commerce, by any means whatsoever and in the course of a commercial activity in accordance with the laws and regulations of the State of taking subject to the following conditions:

(A) Any hide of such alligator may be sold or otherwise transferred only in compliance with paragraph (a)(2)(ii)(C) of this section;

(B) Any hide, meat or other part may be sold or otherwise transferred only in accordance with the laws and regulations of the State in which the taking occurs and the State in which the sale or transfer occurs;

(C) The State of taking requires hides to be tagged by State officials, or under State supervision, with a Service approved tag, a sample of which must be on file in the Federal Wildlife Permit Office (FWPO), that:

(*1*) Is made of permanent material,

(*2*) Shows State of origin, year of take, species, and is serially unique, and

(*3*) Cannot be opened and reused once attached to the hide.

(iii) Import/Export. Any person may import or export hides, manufactured products, meat or other parts in accordance with part 23 of this chapter.

(iv) Recordkeeping

(A) Any person not holding an import/export license issued by the Service under §14.91 and who imports, exports, or obtains permits under part 23 for the import or export of American alligator shall

keep such records as are otherwise required to be maintained by all import/export licensees under §14.93(d). Such records shall be maintained as in the normal course of business, reproducible in the English language, and retained available for Service inspection for 5 years from the date of each transaction.

(B) Subject to applicable limitations of law, duly authorized Service officers at all reasonable time shall, upon notice, be afforded access to examine such records required to be kept under paragraph (a)(2)(iv)(A)(1) of this section, and an opportunity to copy such records.

(b) Green sea turtle *(Chelonia mydas)*, loggerhead sea turtle *(Caretta caretta)*, olive ridley sea turtle *(Lepidochelys olivacea)* (these do not include the populations listed as endangered in §17.11).

(1) *Prohibitions.* Subject to the permits allowable under the following paragraph (b)(2) of this section, all of the provisions set forth in §17.31 (which incorporate portions of §17.21) shall apply to this wildlife with the following exceptions:

(i) Section 17.21(c)(2) (self-defense) is not applicable.

(ii) In §17.21(c)(3)(i), the word "orphaned" is replaced by the word "stranded."

(iii) Delete §17.21(c)(3)(iv) (Wildlife threatening human safety).

(iv) [Reserved]

(v) The prohibition against taking shall not apply to incidental catches, as specified in 50 CFR 227.72(e).

(vi) The prohibition against taking within the United States or the territorial sea of the United States shall not apply to subsistence taking, as specified in 50 CFR 227.72(f).

(2) *Permits.* (i) For those activities which come under the jurisdiction of the Service, only permits for scientific purposes, enhancement of propagation or survival, zoological exhibition or educational purposes, are available under §17.32. Procedures for issuance of permits are found in §17.32 and, for those activities which come under the jurisdiction of the National Marine Fisheries Service, subpart E of part 220. All the provisions of §17.32 apply to permits issued by the Service.

(c) *Threatened crocodilians.* This paragraph applies to the following species: Saltwater crocodile (*Crocodylus porosus*) originating in Australia (also referred to as Australian saltwater crocodile) and Nile crocodile (*Crocodylus niloticus*) populations listed in Appendix II of the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES or Convention).

(1) *Definitions of terms for purposes of this paragraph (c)*—(i) *Crocodilian skins* means whole or partial skins, flanks, and bellies (whether salted, crusted, tanned, partially tanned, or otherwise processed).

(ii) *Crocodilian parts* means meat and body parts with or without skin attached (including tails, throats, feet, and backstrips and other parts), except skulls.

(iii) *Country of re-export* means those intermediary countries that import and re-export crocodilian skins, parts, and/or products, except that those countries through which crocodilian skins, parts, and/or products are transhipped while remaining under Customs control will not be considered to be a country of re-export.

(iv) *Tagging resolution* shall mean the CITES resolution entitled "Universal Tagging System for the Identification of Crocodilian Skins" and numbered Conf. 9.22 and any subsequent revisions.

(2) *Prohibitions.* All provisions of §17.31 (a) and (b) and §17.32 apply to Nile crocodile populations listed in Appendix I of CITES. The following prohibitions apply to saltwater crocodiles (*Crocodylus porosus*) originating in Australia and to all Nile crocodile (*Crocodylus niloticus*) populations in Appendix II of CITES:

(i) *Import, export, and re-export.* Except as provided in paragraph (c)(3) of this section, it is unlawful to import, export, re-export, or present for export or re-export any Nile crocodile (*Crocodylus niloticus*) or Australian saltwater crocodile (*Crocodylus porosus*) or their skins, other parts or products, without valid permits required under 50 CFR parts 17 and 23.

(ii) *Commercial activity.* Except as provided in paragraph (c)(3) of this section, it is unlawful, in the course of a commercial activity, to sell or offer for sale, deliver, receive, carry, transport, or ship in interstate or foreign commerce any Nile or saltwater crocodile, crocodilian skins, or other parts or products.

(iii) It is unlawful for any person subject to the jurisdiction of the United States to commit, attempt to commit, solicit to commit, or cause to be committed any acts described in paragraphs (c)(2)(i)–(iii) of this section.

(3) *Exceptions.* The import, export, or re-export of, or interstate or foreign commerce in live crocodiles, crocodilian skins, meat, skulls, and other parts or products may be allowed without a threatened species permit issued pursuant to 50 CFR 17.32 when the provisions in 50 CFR parts 13, 14, and 23, and the applicable paragraphs set out below have been met.

(i) *Import, export, or re-export of crocodilian skins and parts.* The import, export, or re-export into/from the United States of crocodilian skins and parts of Nile crocodiles listed in Appendix II of the Convention, and of saltwater crocodiles originating in Australia must meet the following conditions:

(A) All crocodilian parts must be in a transparent, sealed container, and each container imported into or presented for export or re-export from the United States after July 24, 1997,

(*1*) Must have a parts tag attached in such a way that opening of the container will preclude reuse of an undamaged tag,

(*2*) This parts tag must contain a description of the contents and total weight of the container, and

(*3*) This parts tag must reference the number of the CITES permit issued to allow the export or re-export of the container;

(B) Each crocodilian skin and each belly skin piece wider than 35 cm. imported into or presented for export or re-export from the United States after July 24, 1996, must bear: *either* an intact, uncut tag from the country of origin meeting all the requirements of the CITES tagging resolution, *or* an intact, uncut tag from the country of re-export where the original tags have been lost or removed from raw, tanned, and/or finished skins. The replacement tags must meet all the requirements of the CITES tagging resolution, except showing the country of re-export in place of the country of origin, provided those re-exporting countries have implemented an administrative system for the effective matching of imports and re-exports consistent with the tagging resolution. Clearance of any shipment with more than 25 percent replacement tags requires prior consultation with the U.S. Office of Management Authority by the re-exporting country to determine whether the requirements of the tagging resolution have been observed;

(C) The same information that is on the tags must be given on the export permit for all skins or re-export certificate for whole skins and belly skin pieces wider than 35 cm or on a separate sheet, which will be considered an integral part of the document, carry the same permit or certificate number, and be validated by the government authority designated by the CITES-document issuing authority;

(D) The Convention permit or certificate must contain the following information:

(*1*) The country of origin, its export permit number, and date of issuance;

(*2*) If re-export, the country of re-export, its certificate number, and date of issuance; and

(*3*) If applicable, the country of last re-export, its certificate number, and date of issuance;

(E) The country of origin and any intermediary country(s) must be effectively implementing the tagging resolution for this exception to apply. If the Service receives substantial evidence from the CITES Secretariat or other reliable sources that the tagging resolution is not being effectively implemented by a specific country, the Service will prohibit or restrict imports from such country(s) as appropriate for the conservation of the species.

(F) At the time of import, for each shipment covered by this exception, the country of origin and each country of re-export involved in the trade of a particular shipment is not subject to a Schedule III Notice of Information pertaining to all wildlife or any members of the Order Crocodylia that may prohibit or restrict imports. A listing of all countries that are subject to such a Schedule III Notice of Information will be available by writing: The Office of Management Authority, ARLSQ Room 430, 4401 N. Fairfax Drive, U.S. Fish and Wildlife Service, Arlington, Virginia, 22203.

(ii) *Import, export or re-export of crocodilian products.* Import, export, or re-export into or from the United States of crocodilian products of Nile crocodiles listed in Appendix II of the Convention, and saltwater crocodiles originating in Australia will be allowed without permits required by 50 CFR part 17 provided the following conditions are met:

(A) The Convention permit or certificate must contain the following information:

(*1*) The country of origin, its export permit number, and date of issuance;

(*2*) If re-export, the country of re-export, its certificate number, and date of issuance; and

(*3*) If applicable, the country of previous re-export, its certificate number, and date of issuance;

(B) The country of origin and any intermediary country(s) must be effectively implementing the tagging resolution for this exception to apply. If the Service receives substantial evidence from the CITES Secretariat or other reliable sources that the tagging resolution is not being effectively implemented by a specific country, the Service will prohibit or restrict imports from such countries as appropriate for the conservation of the species.

(C) At the time of import, for each shipment covered by this exception, the country of origin and each country of re-export involved in the trade of a particular shipment is not subject to a Schedule III Notice of Information pertaining to all wildlife or any member of the Order Crocodylia that may prohibit or restrict imports. A listing of all countries that are subject to such a Schedule III Notice of Information will be available by writing: The Office of Management Authority, ARLSQ Room 430, 4401 N. Fairfax Drive, U.S. Fish and Wildlife Service, Arlington, Virginia, 22203.

(iii) *Shipments of eggs, skulls, meat, scientific specimens and live specimens.* The import/re-export into/from the United States of eggs, skulls, meat, scientific specimens and live specimens of Nile crocodile populations listed in Appendix II of CITES or Australian saltwater crocodile will be allowed without permits otherwise required by 50 CFR part 17, provided the requirements of part 23 are met.

(iv) *Noncommercial accompanying baggage.* The conditions of paragraphs (c)(3)(i) and (ii) for skins tagged in accordance with the tagging resolution, skulls, meat, other parts, and products made of specimens of Nile crocodile populations on CITES Appendix II or of Australian saltwater crocodile do not apply to noncommercial accompanying personal baggage or household effects.

(v) *Personal sport-hunted trophies.* The import of personal sport-hunted trophies, including skulls, of Nile crocodile or saltwater crocodile from Appendix II populations will be allowed from country of origin and intermediary countries into the United States without permits required by 50 CFR part 17, provided that unmounted skins bear an intact, uncut tag from the country of origin or such a tag accompanies mounted specimens in accordance with the tagging resolution.

(4) *Notice of Information.* Except in rare cases involving extenuating circumstances that do not adversely affect the conservation of the species, the Service will issue a Schedule III Notice of Information banning or restricting trade in specimens of crocodilians addressed in this paragraph (c) if any of the following criteria are met:

(i) The country is listed in a Notification to the Parties by the CITES Secretariat as lacking designated Management and Scientific Authorities that issue CITES documents or their equivalent.

(ii) The country is identified in any action adopted by the Parties to the Convention, the Convention's Standing Committee, or in a Notification issued by the CITES Secretariat, whereby Parties are asked to not accept shipments of specimens of CITES-listed Species from the country in question.

(iii) The Service determines, based on information from the CITES Secretariat or other reliable sources that the country is not effectively implementing the tagging resolution.

(d) Blue-tailed mole skink (*Eumeces egregius lividus*) and sand skink (*Neoseps reynoldsi*). (1) No person shall take these species, except in accordance with applicable State fish and wildlife conservation laws and regulations for educational purposes, scientific purposes, the enhancement or survival of the species, zoological exhibition, and other conservation purposes consistent with the Act.

(2) Any violation of applicable State fish and wildlife conservation laws or regulations with respect to taking of these species is also a violation of the Endangered Species Act.

(3) No person shall possess, sell, deliver, carry, transport, ship, import, or export, by any means whatever, any such species taken in violation of applicable State fish and wildlife conservation laws or regulations.

(4) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraph (c) (1) through (3) of this section.

(5) Taking of these species for purposes other than those described in paragraph (c)(1) of this section, including taking incidental to carrying out otherwise lawful activities, is prohibited except when permitted under §§17.23 and 17.32.

(e) Desert tortoise (*Gopherus agassizii*)—(1) *Definition.* For the purposes of this paragraph (e) “desert tortoise” shall mean any member of the species *Gopherus agassizii*, whether alive or dead, and any part, product, egg, or offspring thereof, found outside of Arizona (south and east of the Colorado River) and Mexico, regardless of natal origin or place of removal from the wild.

(2) *Applicable provisions.* The provisions of §17.31–17.32 shall apply to any desert tortoise subject to this paragraph (e).

(f) Bog turtle (*Clemmys muhlenbergii*), southern population—(1) *Definitions of terms.* For the purposes of this paragraph (f): *Bog turtle* of the southern population means any member of the species *Clemmys muhlenbergii*, within Georgia, North Carolina, South Carolina, Tennessee and Virginia, regardless of whether in the wild or captivity, and also applies to the progeny of any such turtle.

(2) *Prohibitions.* Except as provided in paragraph (f)(3) of this section, the provisions of Sec. 17.31 (a) and (b) of this part applies to bog turtles of the southern population (see also 50 CFR part 23).

(3) *Take*. Incidental take, that is, take that results from, but is not the purpose of, carrying out an otherwise lawful activity, does not apply to bog turtles of the southern population.

(g) *Threatened caiman.* This paragraph applies to the following species: Yacare caiman (*Caiman yacare*), the common caiman (*Caiman crocodilus crocodilus*), and the brown caiman (*Caiman crocodilus fuscus* including *Caiman crocodilus chiapasius*). These taxa will be collectively referred to as “caiman.”

(1) *What are the definitions of terms used in this paragraph (g)?* (i) *Caiman skins* means whole or partial skins, flanks, chalecos, and bellies (whether these are salted, crusted, tanned, partially tanned, or otherwise processed).

(ii) *Caiman parts* means body parts with or without skin attached (including tails, throats, feet, and other parts, but excluding meat and skulls) and small cut skins pieces.

(iii) *Caiman product* means any processed or manufactured product items (including curios and souvenirs) that are ready for retail sale, and composed, totally or in part, of yacare caiman, brown caiman, or common caiman.

(iv) *Country of re-export* means those intermediary countries that import and re-export caiman skins, parts, and/or products. However, we will not consider intermediary countries those through which caiman skins, parts, and/or products are shipped while remaining under Customs control.

(v) *Universal Tagging System Resolution* means the CITES (Convention on International Trade in Endangered Species of Wild Fauna and Flora) resolution entitled “Universal Tagging System for the Identification of Crocodilian Skins” and numbered Conf. 9.22, and any subsequent revisions.

(2) *What activities involving yacare caiman (Caiman yacare), the common caiman (Caiman crocodilus crocodilus), and the brown caiman (Caiman crocodilus fuscus) are prohibited by this rule?* (i) *Import, export, and re-export.* Except for the activities described in paragraph (g)(3) of this section, it is unlawful to import, export, re-export, or present for export or re-export without valid permits (as required under 50 CFR parts 17 and 23) any caiman or their skins, other parts or products.

(ii) *Commercial activity*. Except as described in paragraph (g)(3) of this section, it is unlawful to sell or offer for sale, deliver, receive, carry, transport, or ship in interstate or foreign commerce any caiman or their skins, other parts, or products.

(iii) It is unlawful for any person subject to the jurisdiction of the United States to commit, attempt to commit, solicit to commit, or cause to be committed any acts described in paragraphs (g)(2)(i) and (ii) of this section.

(3) *What activities involving yacare caiman (Caiman yacare), the common caiman (Caiman crocodilus crocodilus), and the brown caiman (Caiman crocodilus fuscus) are allowed by this rule?* The import/export/re-export of, or the interstate/foreign commerce in caiman skins, other parts, or products may be allowed without a threatened species permit (issued according to 50 CFR 17.32) only when the provisions in 50 CFR parts 13, 14, and 23, and the requirements of the applicable paragraphs below have been met.

(i) *Import, export, or re-export.* The import, export, or re-export into/from the United States of caiman skins, parts, or products may be allowed provided the following conditions are met:

(A) Each caiman skin imported into or exported or re-exported from the United States after the effective date of the final rule must bear *either:*

(*1*) An intact, uncut tag from the country of origin meeting all the requirements of the CITES Universal Tagging System Resolution, *or*

(*2*) An intact, uncut replacement tag from the country of re-export where the original tags were lost or removed from raw, tanned, and/or processed skins. These replacement tags must meet all the

requirements of the CITES Universal Tagging System Resolution, except showing the country of re-export instead of the country of origin, provided those re-exporting countries have implemented an administrative system for the effective matching of imports and re-exports consistent with the CITES Universal Tagging System Resolution. If a shipment contains more than 25 percent replacement tags, the Management Authority of the re-exporting country must consult with the U.S. Office of Management Authority before clearance of the shipment. Such shipments may be seized if we determine that the requirements of the CITES Universal Tagging System Resolution have not been met.

(B) In accordance with the CITES Universal Tagging System Resolution, all caiman parts must be placed in a transparent, sealed container. Each container imported, exported, or re-exported into/from the United States after the effective date of the rule:

(*1*) Must have a parts tag attached in such a way that opening of the container will prevent later reuse of such tag; and

(*2*) The parts tag must contain a description of the contents plus total weight of the container and its contents.

(C) The information on the export permit or re-export certificate must be the same as that on the skin and part tags, carry the same permit or certificate number, and be validated by the government authority designated as the CITES document-issuing authority.

(D) The CITES permit or certificate accompanying shipments of caiman skins, parts, or products must contain the following information:

(*1*) The country of origin, its export permit number, and date of issuance;

(*2*) If re-export, the country of re-export, its certificate number, and date of issuance; and

(*3*) If applicable, the country of previous re-export, its certificate number, and date of issuance.

(E) The country of origin and any intermediary country(s) must be effectively implementing the CITES Universal Tagging System Resolution. If we receive persuasive information from the CITES Secretariat or other reliable sources that a specific country is not effectively implementing the CITES Universal Tagging System Resolution, we will prohibit or restrict imports from such country(s) as appropriate for the conservation of the species.

(F) At the time of import, for each shipment covered by this exception, the country of origin and each country of re-export involved in the trade of a particular shipment must not be subject to a Schedule III Notice of Information (see paragraph (g)(4) of this section) prohibiting or restricting imports of all wildlife or any members of the Order Crocodylia. A listing of all countries subject to such a Schedule III Notice of Information is available by writing to: Office of Management Authority, U.S. Fish and Wildlife Service, Mail Stop ARLSQ–700, Washington, DC 20240, or via e-mail at r9oma@fws.gov.

(ii) *Shipment of skulls, processed meat, and scientific specimens.* The import, export, and re-export into/from the United States of skulls, processed meat, and scientific specimens of caiman is allowed without permits otherwise required by 50 CFR part 17, provided the requirements of part 23 are met.

(iii) *Noncommercial accompanying baggage.* The conditions described in paragraphs (g)(3)(i) and (ii) for skins, skulls, meat, other parts, and products made of specimens of caiman do not apply to non-commercial personal effects in accompanying baggage or household effects.

(iv) *Eggs and live specimens.* This special rule does not apply to live specimens or eggs of caiman. Import of such specimens requires an import permit as described in 50 CFR 17.32.

(4) *When and how will we inform you of additional restrictions in trade of yacare caiman (Caiman yacare), the common caiman (Caiman crocodilus crocodilus), and the brown caiman (Caiman crocodilus fuscus)?* Except in rare cases involving extenuating circumstances that do not adversely affect the conservation of the species, the Service will issue a Notice of Information announcing additional CITES restrictions in trade in specimens of caiman dealt with in this paragraph (g) if any of the following criteria are met:

(i) The country is listed in a Notification to the Parties by the CITES Secretariat as not having designated Management and Scientific Authorities that issue CITES documents or their equivalent.

(ii) The country is identified in any action adopted by the Conference of the Parties to the Convention, the Convention's Standing Committee, or in a Notification issued by the CITES Secretariat, whereby Parties are asked not to accept shipments of specimens of any CITES-listed species from the country in question or of any crocodilian species listed in the CITES appendices.

(iii) We determine, based on information from the CITES Secretariat or other reliable sources, that the country is not effectively implementing the CITES Universal Tagging System Resolution.

(5) *What are the approved information collection requirements in this rule?* The Office of Management and Budget approved the information collection requirements contained in this special rule under the Paperwork Reduction Act and assigned clearance number 1018–0093 as part of the permit requirements contained in Part 23 of Title 50. We may not conduct or sponsor, and you are not required to respond to, a collection of information unless it displays a currently valid OMB control number. The collection of information under this rule is done to provide information necessary to evaluate permit applications. We will use this information to review permit applications and make decisions, according to criteria established in various Federal wildlife conservation statutes and regulations, on the issuance, suspension, revocation, or denial of permits. You must respond to obtain or retain a permit. We estimate the public reporting burden for these reporting requirements to vary from 20 minutes to 2 hours per response, with an average of 1 hour per response, including time for reviewing instructions, gathering and maintaining data, and completing and reviewing the forms.

[42 FR 2076, Jan. 10, 1977, as amended at 43 FR 32809, July 28, 1978; 44 FR 59084, Oct. 12, 1979; 45 FR 17589, Mar. 19, 1980; 45 FR 78154, Nov. 25, 1980; 48 FR 46336, Oct. 12, 1983; 50 FR 25678, June 20, 1985; 50 FR 45409, Oct. 31, 1985; 52 FR 21063, June 4, 1987; 52 FR 42662, Nov. 6, 1987; 55 FR 12191, Apr. 2, 1990; 61 FR 32366, June 24, 1996; 62 FR 59622, Nov. 4, 1997; 65 FR 25879, May 4, 2000]

§ 17.43 Special rules—amphibians.

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(a) San Marcos salamander (*Eurycea nana*). (1) All provisions of §17.31 apply to this species, except that it may be taken in accordance with applicable State law.

(2) Any violation of State law will also be a violation of the Act.

(b) Chiricahua leopard frog (*Rana chiricahuensis*).

(1) *What activities are prohibited?* Except as noted in paragraph (b)(2) of this section, all prohibitions of §17.31 will apply to the Chiricahua leopard frog.

(2) *What activities are allowed on private, State, or Tribal land?* Incidental take of the Chiricahua leopard frog will not be considered a violation of section 9 of the Act, if the take results from livestock use at or maintenance activities of livestock tanks located on private, State, or Tribal lands. A livestock tank is defined as an existing or future impoundment in an ephemeral drainage or upland site constructed primarily as a watering site for livestock.

(c) California tiger salamander (*Ambystoma californiense*).

(1) *Which populations of the California tiger salamander are covered by this special rule?* This rule covers the California tiger salamander (*Ambystoma californiense*) rangewide.

(2) *What activities are prohibited?* Except as noted in paragraph (c)(3) of this section, all prohibitions of §17.31 will apply to the California tiger salamander.

(3) *What activities are allowed on private or Tribal land?* Incidental take of the California tiger salamander will not be a violation of section 9 of the Act, if the incidental take results from routine ranching activities located on private or Tribal lands. Routine ranching activities include, but are not limited to, the following:

(i) Livestock grazing according to normally acceptable and established levels of intensity in terms of the number of head of livestock per acre of rangeland;

(ii) Control of ground-burrowing rodents using poisonous grain according to the labeled directions and local, State, and Federal regulations and guidelines (The use of toxic or suffocating gases is not exempt from the prohibitions due to their nontarget-specific mode of action.);

(iii) Control and management of burrow complexes using discing and grading to destroy burrows and fill openings;

(iv) Routine management and maintenance of stock ponds and berms to maintain livestock water supplies (This exemption does not include the intentional introduction of species into a stock pond that may prey on California tiger salamander adults, larvae, or eggs.);

(v) Routine maintenance or construction of fences for grazing management;

(vi) Planting, harvest, or rotation of unirrigated forage crops as part of a rangeland livestock operation;

(vii) Maintenance and construction of livestock management facilities such as corrals, sheds, and other ranch outbuildings;

(viii) Repair and maintenance of unimproved ranch roads (This exemption does not include improvement, upgrade, or construction of new roads.);

(ix) Discing of fencelines or perimeter areas for fire prevention control;

(x) Placement of mineral supplements; and

(xi) Control and management of noxious weeds.

[40 FR 44415, Sept. 26, 1975, as amended at 45 FR 47363, July 14, 1980; 67 FR 40811, June 13, 2002; 69 FR 47248, Aug. 4, 2004]

§ 17.44 Special rules—fishes.

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(a) Lahontan cutthroat trout, Paiute cutthroat trout, and Arizona trout (*Salmo clarki henshawi*, *Salmo clarki seleniris*, and *Salmo apache*). (1) All the provisions of §17.31 apply to these species, except that they may be taken in accordance with applicable State law.

(2) Violation of State law will also be a violation of the Act.

(b) Bayou darter (*Etheostoma rubrum*). (1) All the provisions of §17.31 apply to this species, except that they may be taken in accordance with applicable State law.

(2) Any violation of State law will also be a violation of the Act.

(c) Slender chub *(Hybopsis cahni)*, spotfin chub *(Hybopsis monacha)*, slackwater darter *(Etheostoma boschungi)*, and yellowfin madtom *(Noturus flavipinnis)*.

(1) All the provisions of §17.31 apply to these species, except that they may be taken in accordance with applicable State law.

(2) Any violation of State law will also be a violation of the Act.

(d) Leopard darter (*Percina pantherina*). (1) All provisions of §17.31 apply to this species, except that it may be taken in accordance with applicable State law.

(2) Any violation of State law will also be a violation of the Act.

(e) Little Kern golden trout (*Salmo aguabonita whitei*). (1) All provisions of §17.31 apply to this

species, except that it may be taken in accordance with applicable State law.

(2) Any violation of State law will also be a violation of the Act.

(f) Greenback cutthroat trout (*Salmo clarki stomias*). (1) All provisions of §17.31 apply to this species, except that it may be taken in accordance with applicable State law.

(2) Any violation of State law will also be a violation of the Act.

(g) Chihuahua chub, *Gila nigrescens.* (1) All provisions of §17.31 apply to this species, except that it may be taken in accordance with applicable State law.

(2) Any violation of State law will also be a violation of the Endangered Species Act.

(h) Yaqui catfish (*Ictalurus pricei*) and beautiful shiner (*Notropis formosus*). (1) All provisions of §17.31 apply to these species, except that they may be taken for educational, scientific, or conservation purposes in accordance with applicable Arizona State laws and regulations.

(2) Any violation of State law will also be a violation of the Endangered Species Act.

(i) Big Spring spinedace, *Lepidomeda mollispinis pratensis.* (1) All the provisions of §17.31 apply to this species, except that it may be taken in accordance with applicable State fish and wildlife conservation laws and regulations in the following instances: educational purposes, scientific purposes, the enhancement of propagation or survival of the species, zoological exhibition, and other conservation purposes consistent with the Act.

(2) Any violation of applicable State fish and wildlife conservation laws or regulations with respect to this species will also be a violation of the Endangered Species Act.

(j) Hutton tui chub (*Gila bicolor* subspecies) and Foskett speckled dace (*Rhinichthys osculus* subspecies). (1) No person shall take these species, except in accordance with applicable State fish and wildlife conservation laws and regulations in the following instances: for educational purposes, scientific purposes, the enhancement of propagation or survival of the species, zoological exhibition, and other conservation purposes consistent with the Act.

(2) Any violation of applicable State fish and wildlife conservation laws or regulations with respect to the taking of these species will also be a violation of the Endangered Species Act.

(3) No person shall possess, sell, deliver, carry, transport, ship, import, or export, by any means whatsoever, any such species taken in violation of these regulations or in violation of applicable State fish and wildlife conservation laws or regulations.

(4) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraphs (j) (1) through (3) of this section.

(k) Niangua Darter, *Etheostoma nianguae.* (1) No person shall take the species, except in accordance with applicable State fish and wildlife conservation laws and regulations in the following instances: educational purposes, scientific purposes, the enhancement of propagation or survival of the species, zoological exhibition, and other conservation purposes consistent with the Act.

(2) Any violation of applicable State fish and wildlife conservation laws or regulations with respect to the taking of this species will also be a violation of the Endangered Species Act.

(3) No person shall possess, sell, deliver, carry, transport, ship, import, or export, by any means whatsoever, any such species taken in violation of these regulations or in violation of applicable State fish and wildlife conservation laws or regulations.

(4) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraphs (k) (1) through (3) of this section.

(l) Warner sucker (*Catostomus warnerensis*). (1) No person shall take the species, except in accordance with applicable State fish and wildlife conservation laws and regulations in the following instances:

(i) For educational purposes, scientific purposes, the enhancement of propagation or survival of the species, zoological exhibition, and other conservation purposes consistent with the Act;

(ii) Incidental to State-permitted recreational fishing activities, provided that the individual fish taken is immediately returned to its habitat.

(2) Any violation of applicable State fish and wildlife conservation laws or regulations with respect to the taking of this species will also be a violation of the Endangered Species Act.

(3) No person shall possess, sell, deliver, carry, transport, ship, import, or export, by any means whatsoever, any such species taken in violation of these regulations or in violation of applicable State fish and wildlife laws or regulations.

(4) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraphs (l) (1) through (3) of this section.

(m) Desert Dace (*Eremichthys acros*). (1) No person shall take the species, except in accordance with applicable State fish and wildlife conservation laws and regulations in the following instances: For educational purposes, scientific purposes, the enhancement of propagation or survival of the species, zoological exhibition, and other conservation purposes consistent with the Act.

(2) Any violation of applicable State fish and wildlife conservation laws or regulations with respect to the taking of this species will also be a violation of the Endangered Species Act.

(3) No person shall possess, sell, deliver, carry, transport, ship, import, or export, by any means whatsoever, any such species taken in violation of applicable State fish and wildlife conservation laws or regulations.

(4) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraphs (m) (1) through (3) of this section.

(n) Railroad Valley springfish *(Crenichthys nevadae).* (1) No person shall take the species, except in accordance with applicable State fish and wildlife conservation laws and regulations in the following instances: for educational purposes, scientific purposes, the enhancement of propagation or survival of the species, zoological exhibition, and other conservation purposes consistent with the Act.

(2) Any violation of applicable State fish and wildlife conservation laws or regulations with respect to the taking of this species will also be a violation of the Endangered Species Act.

(3) No person shall possess, sell, deliver, carry, transport, ship, import, or export, by any means whatsoever, any such species taken in violation of these regulations or in violation of applicable State fish and wildlife conservation laws or regulations.

(4) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraphs (n) (1) through (3) of this section.

(o) Sonora chub, *Gila ditaenia.* (1) No person shall take the species, except in accordance with applicable State fish and wildlife conservation laws and regulations in the following instances:

(i) For educational purposes, scientific purposes, the enhancement of propagation or survival of the species, zoological exhibition, and other conservation purposes consistent with the Act; or,

(ii) Incidental to State-permitted recreational fishing activities, provided that the individual fish taken is immediately returned to its habitat.

(2) Any violation of applicable State fish and wildlife conservation laws or regulations with respect to the taking of this species will also be a violation of the Endangered Species Act.

(3) No person shall possess, sell, deliver, carry, transport, ship, import, or export, by any means whatsoever, any such species taken in violation of these regulations or in violation of applicable State fish and wildlife conservation laws or regulations.

(4) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraphs (o) (1) through (3) of this section.

(p) Spikedace, *Meda fulgida.* (1) No person shall take the species, except in accordance with applicable State fish and wildlife conservation laws and regulations in the following instances:

(i) For educational purposes, scientific purposes, the enhancement of propagation or survival of the species, zoological exhibition, and other conservation purposes consistent with the Act; or,

(ii) Incidental to State permitted recreational fishing activities, provided that the individual fish taken is immediately returned to its habitat.

(2) Any violation of applicable State fish and wildlife conservation laws or regulations with respect to taking of this species is also a violation of the Endangered Species Act.

(3) No person shall possess, sell, deliver, carry, transport, ship, import, or export, by any means whatsoever any such species taken in violation of these regulations or in violation of applicable State fish and wildlife conservation laws or regulations.

(4) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraphs (p) (1) through (3) of this section.

(q) Loach minnow, *Rhinicthys (=Tiaroga*) *cobitis* (1) No person shall take the species, except in accordance with applicable State fish and wildlife conservation laws and regulations in the following instances: (i) For educational purposes, scientific purposes, the enhancement of propagation or survival of the species, zoological exhibition, and other conservation purposes consistent with the Act or, (ii) incidental to State permitted recreational fishing activities, provided that the individual fish taken is immediately returned to its habitat.

(2) Any violation of applicable State fish and wildlife conservation laws or regulations with respect to the taking of this species is also a violation of the Endangered Species Act.

(3) No person shall possess, sell, deliver, carry, transport, ship, import, or export, by any means whatsoever any such species taken in violation of these regulations or in violation of applicable State fish and wildlife conservation laws or regulations.

(4) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraphs (q) (1) through (3) of this paragraph.

(r) Pecos bluntnose shiner, *Notropis simus pecosensis* (1) No person shall take the species, except in accordance with applicable State fish and wildlife conservation laws and regulations in the following instances:

(i) For educational purposes, scientific purposes, the enhancement of propagation or survival of the species, zoological exhibition, and other conservation purposes consistent with the Act; or,

(ii) Incidental to State permitted recreational fishing activities, provided that the individual fish taken is immediately returned to its habitat.

(2) Any violation of applicable State fish and wildlife conservation laws or regulations with respect to taking of this species will also be a violation of the Endangered Species Act.

(3) No person shall possess, sell, deliver, carry, transport, ship, import, or export, by any means whatsoever any such species taken in violation of these regulations or in violation of applicable State fish and wildlife conservation laws or regulations.

(4) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraphs (r) (1) through (3) of this section.

(s) Waccamaw Silverside (*Menidia extensa*). (1) No person shall take the species, except in accordance with applicable State fish and wildlife conservation laws and regulations.

(2) Any violation of applicable State fish and wildlife conservation laws or regulations with respect to the taking of this species will also be a violation of the Endangered Species Act.

(3) No person shall possess, sell, deliver, carry, transport, ship, import, or export, by any means whatsoever, any such species taken in violation of these regulations or in violation of applicable State fish and wildlife conservation laws or regulations.

(4) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraphs (s) (1) through (3) of this section.

(t) Little Colorado spinedace (*Lepidomeda vittata*). (1) No person shall take this species, except in accordance with applicable State Fish and Wildlife conservation laws and regulations in the following instances: for educational purposes, scientific purposes, the enhancement of propagation or survival of the species, zoological exhibition, and other conservation purposes consistent with the Act.

(2) Any violation of applicable State fish and wildlife conservation laws or regulations with respect to the taking of this species is also a violation of the Endangered Species Act.

(3) No person shall possess, sell, deliver, carry, transport, ship, import, or export, by any means whatsoever, any such species taken in violation of these regulations or in violation of applicable State fish and wildlife conservation laws or regulations.

(4) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraphs (t) (1) through (3) of this section.

(u) Pygmy sculpin (*Cottus pygmaeus*). The City of Anniston Water Works and Sewer Board will continue to use Coldwater Spring as a municipal water supply. Pumpage may remove all spring flow in excess of 3 cubic feet per second (1,938,000 gallons per day).

(v) Gulf sturgeon (*Acipenser oxyrhynchus desotoi*). (1) No person shall take this species, except in accordance with applicable State fish and wildlife conservation laws and regulations for educational purposes, scientific purposes, the enhancement of propagation or survival of the species, zoological exhibition, or other conservation purposes consistent with the Act.

(2) Any violation of applicable State fish and wildlife conservation laws or regulations with respect to taking of this species is also a violation of the Endangered Species Act.

(3) No person shall possess, sell, deliver, carry, transport, ship, import, or export, by any means whatever, any of this species taken in violation of applicable State fish and wildlife conservation laws or regulations.

(4) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraphs (v)(1) through (3) of this section.

(5) Taking of this species for purposes other than those described in paragraph (v)(1) of this section, including taking incidental to otherwise lawful activities, is prohibited except when permitted under 50 CFR 17.32.

(w) What species are covered by this special rule? Bull trout (*Salvelinus confluentus*), wherever found in the coterminous lower 48 States, except in the Jarbidge River Basin in Nevada and Idaho (see 50 CFR 17.44(x)).

(1) What activities do we prohibit? Except as noted in paragraph (w)(2) of this section, all prohibitions of 50 CFR 17.31 and exemptions of 50 CFR 17.32 shall apply to the bull trout in the coterminous United States as defined in paragraph (w) of this section.

(i) No person may possess, sell, deliver, carry, transport, ship, import, or export, by any means whatsoever, any such species taken in violation of this section or in violation of applicable State, National Park Service, and Native American Tribal fish and conservation laws and regulations.

(ii) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense listed in this special rule.

(2) What activities do we allow? In the following instances you may take this species in accordance with applicable State, National Park Service, and Native American Tribal fish and wildlife conservation laws and regulations, as constituted in all respects relevant to protection of bull trout in effect on November 1, 1999:

(i) Educational purposes, scientific purposes, the enhancement of propagation or survival of the species, zoological exhibition, and other conservation purposes consistent with the Act; or

(ii) Fishing activities authorized under State, National Park Service, or Native American Tribal laws and regulations;

(3) How does this rule relate to State protective regulations? Any violation of applicable State, National Park Service, or Native American Tribal fish and wildlife conservation laws or regulations with respect to the taking of this species is also a violation of the Endangered Species Act.

(x) Bull trout (*Salvelinus confluentus*), Jarbidge River population segment.

(1) Prohibitions. Except as noted in paragraph (x)(2) of this section, all prohibitions of 50 CFR 17.31 and exemptions of 50 CFR 17.32 apply to the bull trout in the Jarbidge River population segment within the United States.

(2) Exceptions. No person may take this species, except in the following instances in accordance with applicable State fish and wildlife conservation laws and regulations relevant to protection of bull trout in effect on April 8, 1999.

(i) For educational purposes, scientific purposes, the enhancement of propagation or survival of the species, zoological exhibition, and other conservation purposes consistent with the Act;

(ii) Incidental to State-permitted recreational fishing activities, provided that any bull trout caught are immediately returned to the stream.

(iii) The exceptions in paragraphs (x)(2) (i) and (ii) of this section will be in effect until April 9, 2001. At that time, all take prohibitions of the Act will be reinstated for the Jarbidge River population segment unless exceptions to take prohibitions are otherwise provided through a subsequent special rule.

(3) Any violation of applicable State fish and wildlife conservation laws or regulations with respect to the taking of this species is also a violation of the Endangered Species Act.

(4) No person may possess, sell, deliver, carry, transport, ship, import, or export, any means whatsoever, any such species taken in violation of this section or in violation of applicable State fish and conservation laws and regulations.

(5) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraphs (x)(2) through (4) of this section.

[40 FR 44415, Sept. 26, 1975]

Editorial Note: For Federal Register citations to §17.44, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and on GPO Access.

§ 17.45 Special rules—snails and clams. [Reserved]

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§ 17.46 Special rules—crustaceans.

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(a) Madison Cave isopod (*Antrolana lira*). (1) All provisions of §17.31 (a) and (b) apply to this species except that it may be taken for scientific purposes without Federal permits issued pursuant to these regulations: *Provided*, that all other Federal, State, or local laws, regulations, ordinances or other restrictions or limitations have been complied with.

(b) [Reserved]

[47 FR 43701, Oct. 4, 1982]

§ 17.47 [Reserved]

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§ 17.48 Special rules—common sponges and other forms. [Reserved]

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Subpart E—Similarity of Appearance

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Source: 42 FR 32377, June 24, 1977, unless otherwise noted.

§ 17.50 General.

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(a) Whenever a species which is not Endangered or Threatened closely resembles an Endangered or Threatened species, such species may be treated as either Endangered or Threatened if the director makes such determination in accordance with section 4(e) of the Act and the criteria of paragraph (b) of this section. After the Director has made such determination in accordance with the notification procedures specified in the Act, such species shall appear in the list in §17.11 (Wildlife) or §17.12 (Plants) with the notation “(S/A)” (similarity of appearance) in the “Status” column, following either a letter “E” or a letter “T” to indicate whether the species is being treated as Endangered or Threatened.

(b) In determining whether to treat a species as Endangered or Threatened due to similarity of appearance, the Director shall consider the criteria in section 4(e) of the Act, as indicated below:

(1) The degree of difficulty enforcement personnel would have in distinguishing the species, at the point in question, from an Endangered or Threatened species (including those cases where the criteria for recognition of a species are based on geographical boundaries);

(2) The additional threat posed to the Endangered or Threatened species by the loss of control occasioned because of the similarity of appearance; and

(3) The probability that so designating a similar species will substantially facilitate enforcement and further the purposes and policy of the Act.

Example 1. The ABC sparrow is Endangered wildlife. The ABD sparrow is a subspecies that is so similar to the ABC sparrow that when found outside their normal habitat, the two cannot readily be distinguished by law enforcement personnel. The ABD sparrow is listed in §17.11, after following the proper procedures as follows:

Species and Range							
Common name	Scientific name	Population	Known distribution	Portion of range where endangered or threatened	Status	When listed	Special rules
ABC sparrow	ABCus	NA	North America	Entire	E	7	NA
ABD sparrow	ABDus	NA	do	NA	E(S/A)	7	NA

Example 2. Suppose the ABC sparrow is listed as Endangered in only a portion of its range. Within the meaning of the Act, the ABC sparrow as defined by geographic boundaries is a species. The ABC sparrow which occurs beyond those boundaries is a different species, even though it is identical, except in location, to the listed species. If the criteria of this section were met, the two species would be listed as follows:

Species and Range							
Common name	Scientific name	Population	Known distribution	Portion of range where endangered or threatened	Status	When listed	Special rules
ABC sparrow	ABCus	Idaho	Idaho	Entire	E	7	NA
Do	do	NA	United States	NA	E(S/A)	7	NA

Example 3. The XY cactus has been determined to be an Endangered species. The XZ cactus so closely resembles the XY cactus that enforcement personnel cannot distinguish between the two. The Endangered XY cactus could be illegally sold as the non-endangered XZ species, thus posing an additional threat to the Endangered species. After following the proper procedures, the XZ cactus would be placed on the list and treated as though it was an Endangered species. This entry would appear as follows:

Species and Range							
Common name	Scientific name	Population	Known distribution	Portion of range where endangered or threatened	Status	When listed	Special rules
XYum	XY cactus	Arizona	Entire		E	7	NA
XZum	do	Arizona and Mexico	NA		E(S/A)	8	NA

§ 17.51 Treatment as endangered or threatened.

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(a) Any species listed in §17.11 or §17.12, pursuant to §17.50, shall be treated as Endangered or Threatened, as indicated in the “Status” column.

(b) All of the provisions of subparts C (Endangered Wildlife), D (Threatened Wildlife), F (Endangered Plants) or G (Threatened Plants), as appropriate, shall apply to any such species.

§ 17.52 Permits—similarity of appearance.

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Upon receipt of a complete application and unless otherwise indicated in a special rule, the Director may issue permits for any activity otherwise prohibited with a species designated as Endangered or Threatened due to its similarity of appearance. Such a permit may authorize a single transaction, a series of transactions, or a number of activities over a specified period of time.

(a) *Application requirements.* An application for a permit under this section must be submitted to the Director by the person who wishes to engage in the prohibited activity. The permit for activities involving interstate commerce of plants must be obtained by the seller; in the case of wildlife, the permit must be obtained by the buyer. The application must be submitted on an official application form (Form 3–200) provided by the Service, or must contain the general information and certification required by §13.12(a) of this subchapter. It must include, as an attachment, all of the following information: Documentary evidence, sworn affidavits, or other information to show species identification and the origin of the wildlife or plant in question. This information may be in the form of hunting licenses, hide seals, official stamps, export documents, bills of sales, certification, expert opinion, or other appropriate information.

(b) *Issuance criteria.* Upon receiving an application completed in accordance with paragraph (a) of this section, the Director will decide whether or not a permit should be issued. In making his decision, the Director shall consider, in addition to the general criteria, in §13.21(b) of this subchapter, the following factors:

(1) Whether the information submitted by the applicant appears reliable;

(2) Whether the information submitted by the applicant adequately identifies the wildlife or plant in question so as to distinguish it from any Endangered or Threatened wildlife or plant.

(c) *Permit conditions.* In addition to the general conditions set forth in part 13 of this subchapter, every permit issued under this section shall be subject to the following special conditions:

(1) If indicated in the permit, a special mark, to be specified in the permit, must be applied to the wildlife or plant, and remain for the time designated in the permit;

(2) A copy of the permit or an identification label, which includes the scientific name and the permit number, must accompany the wildlife or plant or its container during the course of any activity subject to these regulations.

(d) *Duration of permits.* The duration of a permit issued under this section shall be designated on the face of the permit.

Subpart F—Endangered Plants

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§ 17.61 Prohibitions.

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(a) Except as provided in a permit issued pursuant to §17.62 or §17.63, it is unlawful for any person subject to the jurisdiction of the United States to commit, to attempt to commit, to solicit another to commit, or to cause to be committed, any of the acts described in paragraphs (b) through (e) of this section in regard to any Endangered plant.

(b) *Import or export.* It is unlawful to import or to export any Endangered plant. Any shipment in transit through the United States is an importation and an exportation, whether or not it has entered the country for customs purposes.

(c) *Remove and reduce to possession.* (1) It is unlawful to remove and reduce to possession any endangered plant from an area under Federal jurisdiction.

(2) Notwithstanding paragraph (c)(1) of this section, any employee or agent of the Service, any other Federal land management agency, or a State conservation agency, who is designated by that agency for such purposes, may, when acting in the course of official duties, remove and reduce to possession endangered plants from areas under Federal jurisdiction without a permit if such action is necessary to:

(i) Care for a damaged or diseased specimen;

(ii) Dispose of a dead specimen; or

(iii) Salvage a dead specimen which may be useful for scientific study.

(3) Any removal and reduction to possession pursuant to paragraph (c)(2) of this section must be reported in writing to the U.S. Fish and Wildlife Service, Division of Law Enforcement, P.O. Box 28006, Washington, DC 20005, within 5 days. The specimen may only be retained, disposed of, or salvaged in accordance with written directions from the Service.

(4) Notwithstanding paragraph (c)(1) of this section, any qualified employee or agent of a State conservation agency which is a party to a Cooperative Agreement with the Service in accordance with section 6(c) of the Act, who is designated by that agency for such purposes, may, when acting in the course of official duties, remove and reduce to possession from areas under Federal jurisdiction those endangered plants which are covered by an approved cooperative agreement for conservation programs in accordance with the Cooperative Agreement, provided that such removal is not reasonably anticipated to result in:

(i) The death or permanent damage of the specimens;

(ii) The removal of the specimen from the State where the removal occurred; or

(iii) The introduction of the specimen so removed, or of any propagules derived from such a specimen, into an area beyond the historical range of the species.

(d) *Interstate or foreign commerce.* It is unlawful to deliver, receive, carry, transport, or ship in interstate or foreign commerce, by any means whatsoever, and in the course of a commercial activity, an endangered plant.

(e) *Sale or offer for sale.* (1) It is unlawful to sell or to offer for sale in interstate or foreign commerce any endangered plant.

(2) An advertisement for the sale of any endangered plant which carries a warning to the effect that no sale may be consummated until a permit has been obtained from the Service, shall not be considered an offer for sale within the meaning of this paragraph.

[44 FR 54060, Sept. 18, 1979, as amended at 50 FR 39690, Sept. 30, 1985]

§ 17.62 Permits for scientific purposes or for the enhancement of propagation or survival.

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Upon receipt of a complete application the Director may issue a permit authorizing any activity otherwise prohibited by §17.61, in accordance with the issuance criteria of this section, for scientific purposes or for enhancing the propagation or survival of endangered plants. (See §17.72 for permits for threatened plants.) Such a permit may authorize a single transaction, a series of transactions, or a number of activities over a specified period of time.

(a) *Application requirements.* A person wishing to get a permit for an activity prohibited by §17.61 submits an application to conduct activities under this paragraph. For interstate commerce activities the seller gets the permit for plants coming from cultivated stock and the buyer gets the permit if the plants are taken from the wild. The Service provides application Form 3–200, or you may submit the general information and certification required by §13.12(a) of this subchapter. Application requirements differ for permits issued for plants taken from the wild (excluding seeds), seeds and cultivated plants, or herbarium specimens. You must attach the following information and any other information requested by the Director.

(1) For activities involving plants obtained from the wild (excluding seeds), provide the following information:

(i) The scientific names of the plants sought to be covered by the permit;

(ii) The estimated number of specimens sought to be covered by the permit;

(iii) The year, country, and approximate place where taking occurred or will occur;

(iv) If the activities would involve removal and reduction to possession of a plant from an area under Federal jurisdiction, the year, State, county, or any other description such as place name, township, and range designation that will precisely place the location where the proposed removal and reduction to possession will occur, the name of the Federal entity having jurisdiction over the area, and the name, title, address, and phone number of the person in charge of the area.

(v) The name and address of the institution or other facility where the plant sought to be covered by the permit will be used or maintained;

(vi) A brief description of the applicant's expertise and facilities as related to the proposed activity;

(vii) A statement of the applicant's willingness to participate in a cooperative propagation program, and to maintain or contribute data relating to such efforts; and

(viii) A statement of the reasons why the applicant is justified in obtaining the permit, including:

(A) The activities sought to be authorized by the permit and the relationship of such activities to scientific purposes or enhancing the propagation or survival of the species; and

(B) The planned disposition of such plant upon termination of the activities sought to be authorized.

(2) For activities involving seeds and cultivated plants, provide the following information:

(i) The scientific names of the plants sought to be covered by the permit;

(ii) A statement of the applicant's willingness to participate in a cooperative propagation program, and to maintain or contribute data relating to the success of such efforts;

(iii) A justification of the activities sought to be authorized by the permit and the relationship of such activities to scientific purposes or enhancing the propagation or survival of the species; and

(iv) If the activities would involve seeds obtained from the wild, additional information to evaluate the effects of such taking upon the reproductive potential of the species where the taking will occur.

(v) If the activities would involve removal and reduction to possession of seeds from an area under Federal jurisdiction, the year, State, county or any other description such as place name, township, and range designation that will precisely place the location where the proposed removal and reduction to possession will occur, the name of the Federal entity having jurisdiction over the area and the name, title, address, and phone number of the person in charge of the area.

(3) For importation or exportation involving the non-commercial loan, exchange, or donation of herbarium or other preserved, dried, or embedded museum specimens of any endangered species between scientists or scientific institutions, provide the following information:

(i) The name and address of the institution or other facility where the plants sought to be covered by the permit will be used or maintained; and

(ii) A justification of the activities sought to be authorized by the permit and the relationship of such activities to scientific purposes or enhancing the propagation or survival of the species.

(4) When the activity applied for involves a species also regulated by the Convention on International Trade in Endangered Species of Wild Fauna and Flora, additional requirements of §23.15(c) of this subchapter must be met. For your convenience, §23.15(c) is repeated here.

Application requirements for permits or certificates to import, export or re-export wildlife or plants listed in appendix I, II or III that are not subject to the regulations in part 17 or part 18 of this subchapter. Any person subject to the jurisdiction of the United States who wishes to get such a permit or certificate submits an application under this section to the Director, U.S. Fish and Wildlife Service, (Attention: Office of Management Authority), 4401 N. Fairfax Drive, Room 700, Arlington, VA 22203. The Service provides Form 3–200 for the application to which as much of the following information relating to the purpose of the permit or certificate must be attached.

(1) The scientific and common names of the species (or taxa to the rank listed in Appendix I, II, or III) sought to be covered by the permit. the number of wildlife or plants, and the activity sought to be authorized (such as importing, exporting, re-exporting, etc.);

(2) A statement as to whether the wildlife or plant, at the time of application, (i) is living in the wild, (ii) is living, but not in the wild, or (iii) is dead;

(3) A description of the wildlife or plant, including (i) size, (ii) sex (if known), and (iii) type of goods, if it is a part or derivative;

(4) In the case of living wildlife or plants, (i) a description of the type, size, and construction of any container the wildlife or plant will be placed in during transportation, and (ii) the arrangements for watering and otherwise caring for the wildlife or plant during transportation;

(5) The name and address of the person in a foreign country to whom the wildlife or plant is to be exported from the United States, or from whom the wildlife or plant is to be imported into the United States;

(6) The country and place where the wildlife or plant was or is to be taken from the wild;

(7) In the case of wildlife or plants listed in Appendix I to be imported into the United States, (i) a statement of the purposes and details of the activities for which the wildlife or plant is to be imported; (ii) a brief resume of the technical expertise of the applicant or other persons who will care for the wildlife or plant; (iii) the name, address, and description, including diagrams or photographs, of the facility where the wildlife or plant will be maintained; and (iv) a description of all mortalities, in the two years preceding the date of this application, including any wildlife species covered in the application (or any species of the same genus or family) held by the applicant, including the causes and steps taken to avoid such mortalities; and

(8) Copies of documents, sworn affidavits, or other evidence showing that either (i) the wildlife or plant was acquired prior to the date the Convention applied to it, or (ii) the wildlife or plant was bred in captivity, or artificially propagated, or was part of or derived therefrom, or (iii) the wildlife or plant is an herbarium specimen, or live plant material to be imported, exported, or re-exported as a noncommercial loan, donation, or exchange between scientists or scientific institutions.

(b) *Issuance criteria.* Upon receiving an application completed in accordance with paragraph (a) of this section, the Director will decide whether or not a permit should be issued. In making his decision, the Director shall consider, in addition to the general criteria in §13.21(b) of this subchapter, the following factors:

(1) Whether the purpose for which the permit is requested will enhance the survival of the species in the wild;

(2) Whether the purpose for which the permit is requested will enhance the propagation of the species;

(3) The opinions or views of scientists or other persons or organizations having expertise concerning the plant or other matters germane to the application; and

(4) Whether the expertise, facilities, or other resources available to the applicant appear adequate to successfully accomplish the objectives stated in the application.

(c) *Permit conditions.* In addition to the general conditions set forth in part 13 of this subchapter, every permit issued under this section shall be subject to the following special conditions:

(1) If requested, the permittee shall submit to the Director a written report of the activities authorized by the permit. Such report must be postmarked by the date specified in the permit or otherwise requested by the Director.

(2) A copy of the permit or an identification label, which includes the scientific name, the permit number, and a statement that the plant is of “wild origin” or “cultivated origin” must accompany the plant or its container during the course of any activity subject to these regulations, unless the specimens meet the special conditions referred to in paragraph (c)(3) of this section.

(3) In the case of plants that are herbarium specimens, or other preserved, dried or embedded museum specimens to be imported or exported as a noncommercial loan, exchange or donation between scientists or scientific institutions, the names and addresses of the consignor and consignee must be on each package or container. A description such as “herbarium specimens” and the code letters assigned by the Service to the scientists or scientific institution must be entered on the Customs declaration form affixed to each package or container. If the specimens are of taxa also regulated by the Convention on International Trade in Endangered Species of Wild Fauna and Flora, the letters “CITES” (acronym for the Convention) also must be entered on the Customs declaration form, as indicated in §23.15(e)(3) of this subchapter.

(d) *Duration of permit.* The duration of a permit issued under this section shall be designated on the face of the permit.

[44 FR 54060, Sept. 18, 1979, as amended at 50 FR 39690, Sept. 30, 1985; 63 FR 52635, Oct. 1, 1998]

§ 17.63 Economic hardship permits.

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Upon receipt of a complete application, the Director may issue a permit authorizing any activity otherwise prohibited by §17.61, in accordance with Section 10(b) of the Act and the issuance criteria of this section, in order to prevent undue economic hardship. No such exemption may be granted for the importation or exportation of a species also listed in Appendix I of the Convention on International Trade in endangered Species of Wild Fauna and Flora, if the specimen would be used in a commercial activity.

(a) *Application requirements.* An application for a permit under this section must be submitted to the Director by the person allegedly suffering undue economic hardship because his desired activity is prohibited. The application must be submitted on an official application form (Form 3–200) provided by the Service, or must contain the general information and certification required by §13.12(a) of this subchapter. It must include, as an attachment, all of the information required in §17.62 plus the following additional information.

(1) The possible legal or economic alternatives to the activity sought to be authorized by the permit.

(2) A full statement, accompanied by copies of all relevant correspondence, showing the applicant's involvement with the plant sought to be covered by the permit (as well as his involvement with similar plants). The applicant should include information on that portion of his income derived from activities involving such plants in relation to the balance of his income during the calendar year immediately preceding either the Federal Register notice of review of the status of the species or proposed rulemaking to list the species as Endangered, whichever is earlier.

(3) Where applicable, proof of a contract or other binding legal obligation which:

(i) Deals specifically with the plant sought to be covered by the permit;

(ii) Became binding prior to the date of the Federal Register notice of review of the status of the species or proposed rulemaking to list the species as endangered, whichever is earlier; and

(iii) Will cause monetary loss of a given dollar amount if the permit sought under this section is not granted.

(b) *Issuance criteria.* Upon receiving an application completed in accordance with paragraph (a) of this section, the Director will decide whether or not a permit should be issued for economic hardship, as defined in section 10(b) of the Act. In making his decision, the Director shall consider, in addition to the general criteria in §13.21(b) of this subchapter, the following factors:

(1) Whether the purpose for which the permit is requested will significantly affect the survival of the species in the wild;

(2) The economic, legal, or other alternatives or relief available to the applicant;

(3) The amount of evidence that the applicant was in fact party to a contract or other binding legal obligation which:

(i) Deals specifically with the plant sought to be covered by the permit; and

(ii) Became binding prior to the date of the Federal Register notice of review of the status of the species or proposed rulemaking to list the species as endangered, whichever is earlier;

(4) The severity of economic hardship which the contract or other binding legal obligation referred to in paragraph (b)(3) of this section would cause if the permit were denied;

(5) Where applicable, the portion of the applicant's income which would be lost if the permit were denied, and the relationship of that portion to the balance of his income.

(c) *Permit conditions.* In addition to the general conditions set forth in part 13 of this subchapter, every permit issued under this section may be subject to any of the following special conditions:

(1) If requested, the permittee shall submit to the Director a written report of the activities authorized by the permit. Such report must be postmarked by the date specified in the permit or otherwise requested by the Director.

(2) If requested, the permittee shall report to the Service's office designated in the permit the death, destruction or loss of all living plants covered by the permit. Such report must be postmarked by the date specified in the permit or otherwise requested by the Director.

(d) *Duration of permit.* The duration of a permit issued under this section shall be designated on the face of the permit. No permit issued under this section shall be valid for more than one year from the date of a Federal Register notice of review of the status of the species or proposed rulemaking to list the species as endangered, whichever is earlier.

[44 FR 54060, Sept. 18, 1979]

Subpart G—Threatened Plants

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§ 17.71 Prohibitions.

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(a) Except as provided in subpart A of this part, or in a permit issued under this subpart, all of the provisions in §17.61 shall apply to threatened plants, with the following exception. Seeds of cultivated specimens of species treated as threatened shall be exempt from all the provisions of §17.61, provided that a statement that the seeds are of “cultivated origin” accompanies the seeds or their container during the course of any activity otherwise subject to these regulations.

(b) In addition to any provisions of this part 17, any employee or agent of the Service or of a State Conservation Agency which is operating a conservation program pursuant to the terms of a Cooperative Agreement with the Service in accordance with section 6(c) of the Act, who is designated by that agency for such purposes, may, when acting in the course of official duties, remove and reduce to possession from areas under Federal jurisdiction those threatened species of plants which are covered by an approved Cooperative Agreement to carry out conservation programs.

(c) Whenever a special rule in §§17.73 to 17.78 applies to a threatened species, none of the provisions of paragraph (a) of this section will apply. The special rule will contain all the applicable prohibitions and exceptions. If indicated by special rule, the exception for seeds in paragraph (a) of this section shall not apply to the threatened species.

[42 FR 32380, June 24, 1977, as amended at 50 FR 39691, Sept. 30, 1985]

§ 17.72 Permits—general.

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Upon receipt of a complete application, the Director may issue a permit authorizing any activity otherwise prohibited with regard to threatened plants. The permit shall be governed by the provisions of this section unless a special rule applicable to the plant is provided in §§17.73 to 17.78. A permit issued under this section must be for one of the following: scientific purposes, the enhancement of the propagation or survival of threatened species, economic hardship, botanical or horticultural exhibition, educational purposes, or other activities consistent with the purposes and policy of the Act. Such a permit may authorize a single transaction, a series of transactions, or a number of activities over a specified period of time.

(a) *Application requirements.* A person wishing to get a permit for an activity prohibited by §17.71 submits an application to conduct activities under this paragraph. For interstate commerce activities the seller gets the permit for plants coming from cultivated stock and the buyer gets the permit if the plants are taken from the wild. The Service provides Form 3–200 for the application or you may submit the general information and certification required by §13.12(a) of this subchapter. Application requirements differ for permits issued for plants taken from the wild (excluding seeds), seeds and cultivated plants, or herbarium specimens. You must attach the following information and any other information requested by the Director.

(1) For activities involving plants obtained from the wild (excluding seeds), provide the following information:

(i) The scientific names of the plants sought to be covered by the permit;

(ii) The estimated number of specimens sought to be covered by the permit;

(iii) The year, country, and approximate place where taking occurred or will occur;

(iv) If the activities would involve removal and reduction to possession of a plant from an area under Federal jurisdiction, the year, State, county or any other description such as place name, township, and range designation that will precisely place the location where the proposed removal and reduction to possession will occur, the name of the Federal entity having jurisdiction over the area and the name, title, address, and phone number of the person in charge of the area.

(v) A brief description of the applicant's expertise and facilities as related to the proposed activity;

(vi) A justification of the activities sought to be authorized by the permit and the relationship of such activities to scientific purposes, enhancing the propagation or survival of the species, or other objectives consistent with the purposes and policy of the Act; and

(vii) A statement of the applicant's willingness to participate in a cooperative propagation program, and to maintain or contribute data relating to such efforts.

(2) For activities involving seeds obtained from the wild and cultivated plants, provide the following information:

(i) The scientific names of the plants sought to be covered by the permit;

(ii) A statement of the applicant's willingness to participate in a cooperative propagation program, and to

maintain or contribute data relating to the success of such efforts; and

(iii) A justification of the activities sought to be authorized by the permit and the relationship of such activities to scientific purposes, enhancing the propagation or survival of the species, or other objectives consistent with the purposes and policy of the Act.

(iv) If the activities would involve removal and reduction to possession of seeds from an area under Federal jurisdiction, the year, State, county, or any other description such as place name, township, and range designation that will precisely place the location where the proposed removal and reduction to possession will occur, the name of the Federal entity having jurisdiction over the area and the name, title, address, and phone number of the person in charge of the area.

(3) For importation or exportation involving the non-commercial loan, exchange or donation of herbarium or other preserved, dried or embedded museum specimens of all threatened species between scientists or scientific institutions, provide the following information:

(i) The name and address of the institution or other facility where the plants sought to be covered by the permit will be used or maintained; and

(ii) A justification of the activities sought to be authorized by the permit and the relationship of such activities to scientific purposes, enhancing the propagation or survival of the species, or other objectives consistent with the purposes and policy of the Act.

(4) When the activity applied for involves a species also regulated by the Convention on International Trade in Endangered Species of Wild Fauna and Flora, additional requirements of §23.15(c) of this subchapter must be met. For your convenience, §23.15(c) is repeated here.

Application requirements for permits or certificates to import, export or re-export wildlife or plants listed in Appendix I, II or III that are not subject to the regulations in part 17 or part 18 of this subchapter. Any person subject to the jurisdiction of the United States who wishes to get such a permit or certificate submits an application under this section to the Director, Fish and Wildlife Service (Attention: Office of Management Authority), 4401 N. Fairfax Drive, Room 700, Arlington, VA 22203. The Service provides Form 3–200 for the application to which as much of the following information relating to the purpose of the permit or certificate must be attached:

(1) The scientific and common names of the species (or taxa to the rank listed in Appendix I, II, or III) sought to be covered by the permit, the number of wildlife or plants, and the activity sought to be authorized (such as importing, exporting, re-exporting, etc.);

(2) A statement as to whether the wildlife or plant, at the time of application, (i) is living in the wild, (ii) is living, but not in the wild, or (iii) is dead;

(3) A description of the wildlife or plant, including (i) size, (ii) sex (if known), and (iii) type of goods, if it is a part or derivative;

(4) In the case of living wildlife or plants, (i) a description of the type, size, and construction of any container the wildlife or plant will be placed in during transportation, and (ii) the arrangements for watering and otherwise caring for the wildlife or plant during transportation;

(5) The name and address of the person in a foreign country to whom the wildlife or plant is to be exported from the United States, or from whom the wildlife or plant is to be imported into the United States;

(6) The country and place where the wildlife or plant was or is to be taken from the wild;

(7) In the case of wildlife or plants listed in Appendix I to be imported into the United States, (i) a statement of the purposes and details of the activities for which the wildlife or plant is to be imported; (ii) a brief resume of the technical expertise of the applicant or other persons who will care for the wildlife or plant; (iii) the name, address, and description, including diagrams or photographs, of the facility where the wildlife or plant will be maintained; and (iv) a description of all mortalities, in the two years preceding the date of this application, including any wildlife species covered in the application (or any species of the same genus or family) held by the applicant, including the causes and steps taken to avoid such mortalities; and

(8) Copies of documents, sworn affidavits, or other evidence showing that either (i) the wildlife or plant was acquired prior to the date the Convention applied to it, or (ii) the wildlife or plant was bred in captivity, or artificially propagated, or was part of or derived therefrom, or (iii) the wildlife or plant is an herbarium specimen, or live plant material to be imported, exported, or re-exported as a noncommercial loan, donation, or exchange between scientists or scientific institutions.

(b) *Issuance criteria.* Upon receiving an application completed in accordance with paragraph (a) of this section, the Director will decide whether or not a permit should be issued. In making his decision, the Director shall consider, in addition to the general criteria in §13.21(b) of this subchapter, the following factors:

(1) Whether the purpose for which the permit is requested will enhance the survival of the species in the wild;

(2) Whether the purpose for which the permit is requested will enhance the propagation of the species;

(3) The opinions or views of scientists or other persons or organizations having expertise concerning the plant or other matters germane to the application; and

(4) Whether the expertise, facilities, or other resources available to the applicant appear adequate to successfully accomplish the objectives stated in the application.

(c) *Permit conditions.* In addition to the general conditions set forth in part 13 of this subchapter, every permit issued under this section shall be subject to the following special conditions:

(1) If requested, the permittee shall submit to the Director a written report of the activities authorized by the permit. Such report must be postmarked by the date specified in the permit or otherwise requested by the Director.

(2) A copy of the permit or an identification label, which includes the scientific name, the permit number, and a statement that the plant is of “wild orgin” or “cultivated origin” must accompany the plant or its container during the course of any activity subject to these regulations, unless the specimens meet the special conditions referred to in paragraph (c)(3) of this section.

(3) In the case of plants that are herbarium specimens, or other preserved, dried, or embedded museum specimens to be imported or exported as a noncommercial loan exchange or donation between scientists or scientific institutions, the names and addresses of the consignor and consignee must be on each package or container. A description such as “herbarium specimens” and the code letters assigned by the Service to the scientist or scientific institution must be entered on the Customs declaration form affixed to each package or container. If the specimens are of taxa also regulated by the Convention on International Trade in Endangered Species of Wild Fauna and Flora, the letters “CITES” (acronym for the convention) also must be entered on the Customs declaration form as indicated in §23.15(e)(3) of this subchapter.

(d) *Duration of permit.* The duration of a permit issued under this section shall be designated on the face of the permit.

[42 FR 32380, June 24, 1977, as amended at 50 FR 39691, Sept. 30, 1985; 63 FR 52636, Oct. 1, 1998]

§§ 17.73-17.78 [Reserved]

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Subpart H—Experimental Populations

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Source: 49 FR 33893, Aug. 27, 1984, unless otherwise noted.

§ 17.80 Definitions.

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(a) The term *experimental population* means an introduced and/or designated population (including any off-spring arising solely therefrom) that has been so designated in accordance with the procedures of this subpart but only when, and at such times as the population is wholly separate geographically from nonexperimental populations of the same species. Where part of an experimental population overlaps with natural populations of the same species on a particular occasion, but is wholly separate at other times, specimens of the experimental population will not be recognized as such while in the area of overlap. That is, experimental status will only be recognized outside the areas of overlap. Thus, such a population shall be treated as experimental only when the times of geographic separation are reasonably predictable; e.g., fixed migration patterns, natural or man-made barriers. A population is not treated as experimental if total separation will occur solely as a result of random and unpredictable events.

(b) The term *essential experimental population* means an experimental population whose loss would be likely to appreciably reduce the likelihood of the survival of the species in the wild. All other experimental populations are to be classified as *nonessential*.

§ 17.81 Listing.

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(a) The Secretary may designate as an experimental population a population of endangered or threatened species that has been or will be released into suitable natural habitat outside the species' current natural range (but within its probable historic range, absent a finding by the Director in the extreme case that the primary habitat of the species has been unsuitably and irreversibly altered or destroyed), subject to the further conditions specified in this section; *provided*, that all designations of experimental populations must proceed by regulation adopted in accordance with 5 U.S.C. 553 and the requirements of this subpart.

(b) Before authorizing the release as an experimental population of any population (including eggs, propagules, or individuals) of an endangered or threatened species, and before authorizing any necessary transportation to conduct the release, the Secretary must find by regulation that such release will further the conservation of the species. In making such a finding the Secretary shall utilize the best scientific and commercial data available to consider:

(1) Any possible adverse effects on extant populations of a species as a result of removal of individuals, eggs, or propagules for introduction elsewhere;

(2) The likelihood that any such experimental population will become established and survive in the foreseeable future;

(3) The relative effects that establishment of an experimental population will have on the recovery of the species; and

(4) The extent to which the introduced population may be affected by existing or anticipated Federal or State actions or private activities within or adjacent to the experimental population area.

The Secretary may issue a permit under section 10(a)(1)(A) of the Act, if appropriate under the standards set out in subsections 10(d) and (j) of the Act, to allow acts necessary for the establishment and maintenance of an experimental population.

(c) Any regulation promulgated under paragraph (a) of this section shall provide:

(1) Appropriate means to identify the experimental population, including, but not limited to, its actual or proposed location, actual or anticipated migration, number of specimens released or to be released, and other criteria appropriate to identify the experimental population(s);

(2) A finding, based solely on the best scientific and commercial data available, and the supporting factual basis, on whether the experimental population is, or is not, essential to the continued existence of the species in the wild;

(3) Management restrictions, protective measures, or other special management concerns of that population, which may include but are not limited to, measures to isolate and/or contain the experimental population designated in the regulation from natural populations; and

(4) A process for periodic review and evaluation of the success or failure of the release and the effect of the release on the conservation and recovery of the species.

(d) The Fish and Wildlife Service shall consult with appropriate State fish and wildlife agencies, local governmental entities, affected Federal agencies, and affected private landowners in developing and implementing experimental population rules. When appropriate, a public meeting will be conducted with interested members of the public. Any regulation promulgated pursuant to this section shall, to the maximum extent practicable, represent an agreement between the Fish and Wildlife Service, the affected State and Federal agencies and persons holding any interest in land which may be affected by the establishment of an experimental population.

(e) Any population of an endangered species or a threatened species determined by the Secretary to be an experimental population in accordance with this subpart shall be identified by special rule in §§17.84—17.86 as appropriate and separately listed in §17.11(h) (wildlife) or §17.12(h) (plants) as appropriate.

(f) The Secretary may designate critical habitat as defined in section (3)(5)(A) of the Act for an essential experimental population as determined pursuant to paragraph (c)(2) of this section. Any designation of critical habitat for an essential experimental population will be made in accordance with section 4 of the Act. No designation of critical habitat will be made for nonessential populations. In those situations where a portion or all of an essential experimental population overlaps with a natural population of the species during certain periods of the year, no critical habitat shall be designated for the area of overlap unless implemented as a revision to critical habitat of the natural population for reasons unrelated to the overlap itself.

§ 17.82 Prohibitions.

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Any population determined by the Secretary to be an experimental population shall be treated as if it were listed as a threatened species for purposes of establishing protective regulations under section 4(d) of the Act with respect to such population. The Special rules (protective regulations) adopted for an experimental population under §17.81 will contain applicable prohibitions, as appropriate, and exceptions for that population.

§ 17.83 Interagency cooperation.

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(a) Any experimental population designated for a listed species (1) determined pursuant to §17.81(c)(2) of this subpart not to be essential to the survival of that species and (2) not occurring within the National Park System or the National Wildlife Refuge System, shall be treated for purposes of section 7 (other than subsection (a)(1) thereof) as a species proposed to be listed under the Act as a threatened species.

(b) Any experimental population designated for a listed species that either (1) has been determined pursuant to §17.81(c)(2) of this subpart to be essential to the survival of that species, of (2) occurs within the National Park System or the National Wildlife Refuge System as now or hereafter constituted, shall be treated for purposes of section 7 of the Act as a threatened species. Notwithstanding the foregoing, any biological opinion prepared pursuant to section 7(b) of the Act and any agency determination made pursuant to section 7(a) of the Act shall consider any experimental and nonexperimental populations to constitute a single listed species for the purposes of conducting the analyses under such sections.

§ 17.84 Special rules—vertebrates.

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(a) Delmarva Peninsula fox squirrel (*Sciurus niger cinereus*). (1) The Delmarva Peninsula fox squirrel population identified in paragraph (a)(6) of this section is a nonessential experimental population.

(2) No person shall take this species, except:

(i) For educational purposes, scientific purposes, the enhancement of propagation or survival of the species, zoological exhibition, and other conservation purposes consistent with the Act and in accordance with applicable State fish and wildlife conservation laws and regulations; or

(ii) Incidental to recreational activities.

(3) Any violation of applicable State fish and wildlife conservation laws or regulations with respect to the taking of this species (other than incidental taking as described in paragraph (a)(2)(ii) of this section) will also be a violation of the Endangered Species Act.

(4) No person shall possess, sell, deliver, carry, transport, ship, import, or export by any means whatsoever, any such species taken in violation of these regulations or in violation of applicable State fish and wildlife laws or regulations or the Endangered Species Act.

(5) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraph (a)(2) or (4) of this section.

(6) The site for reintroduction of Delmarva Peninsula fox squirrel is totally isolated from existing populations of this species. The nearest extant population is in the Chincoteague National Wildlife Refuge approximately 50 miles from the reintroduction site. The reintroduction site is within the historic range of this species and is located at the Assawoman Wildlife Area, Sussex County, Delaware. Observation of previous releases have shown that fox squirrels have not traveled more than 2 or 3 miles from release sites, therefore, the possibility of this population contacting extant wild populations is unlikely.

(7) The reintroduced population will be checked periodically to determine its condition and the success of the reintroduction. Of special concern will be the establishment of breeding pairs and the reproductive success of the population. The movement patterns of the released individuals and the overall health of the population will also be observed.

(b) Colorado squawfish (*Ptychocheilus lucius*) and woundfin (*Plagopterus* argentissimus). (1) The Colorado squawfish and woundfin populations identified in paragraph (b)(6) of this section, are experimental, nonessential populations.

(2) No person shall take the species, except in accordance with applicable State or Tribal fish and wildlife conservation laws and regulations in the following instances:

(i) For educational purposes, scientific purposes, the enhancement of propagation or survival of the species, zoological exhibition, and other conservation purposes consistent with the Act; or

(ii) Incidental to otherwise lawful activities, provided that the individual fish taken, if still alive, is immediately returned to its habitat.

(3) Any violation of applicable State or Tribal fish and wildlife conservation laws or regulations with respect to the taking of this species (other than incidental taking as described in paragraph (b)(2)(ii) of this section) will also be a violation of the Endangered Species Act.

(4) No person shall possess, sell, deliver, carry, transport, ship, import, or export, by any means whatsoever, any such species taken in violation of these regulations or in violation of applicable State or Tribal fish and wildlife laws or regulations.

(5) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraphs (b) (2) through (4) of this section.

(6) All of the sites for reintroduction of Colorado squawfish and woundfin are totally isolated from existing populations of these species. The nearest population of Colorado squawfish is above Lake Powell in the Green and Colorado Rivers, an upstream distance of at least 800 miles including 6 mainstream dams, and 200 miles of dry riverbed. Woundfin are similarly isolated (450 miles distant, 200 miles of dry streambed and 5 mainstream dams). All reintroduction sites are within the probable historic range of these species and are as follows:

Colorado Squawfish

(i) *Arizona: Gila County.* Salt River from Roosevelt Dam upstream to U.S Highway 60 bridge.

(ii) *Arizona: Gila and Yavapai Counties.* Verde River from Horseshoe Dam upstream to Perkinsville.

The lower segments of large streams which flow into these two sections of river may, from time to time, be inhabited by Colorado squawfish. Downstream movement of squawfish in these areas will be restricted by dams and upstream movement is limited by lack of suitable habitat.

Woundfin

(i) *Arizona: Gila and Yavapai Counties.* Verde River from backwaters of Horseshoe Reservoir upstream to Perkinsville.

(ii) *Arizona: Graham and Greenlee Counties.* Gila River from backwaters of San Carlos Reservoir upstream to Arizona/New Mexico State line.

(iii) *Arizona: Greenlee County.* San Francisco River from its junction with the Gila River upstream to the Arizona/New Mexico State line.

(iv) *Arizona: Gila County.* Tonto Creek, from Punkin Center upstream to Gisela.

(v) *Arizona: Yavapai County.* Hassayampa River, from Red Cliff upstream to Wagoner.

The movement of woundfin beyond these areas will be limited to the lower portion of larger tributaries where suitable habitat exists. Downstream movement is limited by dams, reservoirs, and dry streambed. Upstream movement from these areas is restricted due to the absence of habitat. Upstream areas are too cold and the gradient is too steep to support populations of woundfin.

(7) The reintroduced populations will be checked annually to determine their condition. A seining survey will be used to determine population expansion or contraction, reproduction success, and general health condition of the fish.

(c) Red wolf (*Canis rufus*). (1) The red wolf populations identified in paragraphs (c)(9)(i) and (c)(9)(ii) of this section are nonessential experimental populations.

(2) No person may take this species, except as provided in paragraphs (c)(3) through (5) and (10) of this section.

(3) Any person with a valid permit issued by the Service under §17.32 may take red wolves for educational purposes, scientific purposes, the enhancement of propagation or survival of the species, zoological exhibition, and other conservation purposes consistent with the Act and in accordance with applicable State fish and wildlife conservation laws and regulations;

(4)(i) Any person may take red wolves found on private land in the areas defined in paragraphs (c)(9) (i) and (ii) of this section, *Provided* that such taking is not intentional or willful, or is in defense of that person's own life or the lives of others; and that such taking is reported within 24 hours to the refuge manager (for the red wolf population defined in paragraph (c)(9)(i) of this section), the Park superintendent (for the red wolf population defined in paragraph (c)(9)(ii) of this section), or the State wildlife enforcement officer for investigation.

(ii) Any person may take red wolves found on lands owned or managed by Federal, State, or local government agencies in the areas defined in paragraphs (c)(9) (i) and (ii) of this section, *Provided* that such taking is incidental to lawful activities, is unavoidable, unintentional, and not exhibiting a lack of reasonable due care, or is in defense of that person's own life or the lives of others, and that such taking is reported within 24 hours to the refuge manager (for the red wolf population defined in paragraph (c)(9)(i) of this section), the Park superintendent (for the red wolf population defined in paragraph (c)(9)(ii) of this section), or the State wildlife enforcement officer for investigation.

(iii) Any private landowner, or any other individual having his or her permission, may take red wolves found on his or her property in the areas defined in paragraphs (c)(9) (i) and (ii) of this section when the wolves are in the act of killing livestock or pets, *Provided* that freshly wounded or killed livestock or pets are evident and that all such taking shall be reported within 24 hours to the refuge manager (for the red wolf population defined in paragraph (c)(9)(i) of this section), the Park superintendent (for the red wolf population defined in paragraph (c)(9)(ii) of this section), or the State wildlife enforcement officer for investigation.

(iv) Any private landowner, or any other individual having his or her permission, may harass red wolves found on his or her property in the areas defined in paragraphs (c)(9) (i) and (ii) of this section, *Provided* that all such harassment is by methods that are not lethal or physically injurious to the red wolf and is reported within 24 hours to the refuge manager (for the red wolf population defined in paragraph (c)(9)(i) of this section), the Park superintendent (for the red wolf population defined in paragraph (c)(9)(ii) of this section), or the State wildlife enforcement officer, as noted in paragraph (c)(6) of this section for investigation.

(v) Any private landowner may take red wolves found on his or her property in the areas defined in paragraphs (c)(9) (i) and (ii) of this section after efforts by project personnel to capture such animals have been abandoned, *Provided* that the Service project leader or biologist has approved such actions in writing and all such taking shall be reported within 24 hours to the Service project leader or biologist, the refuge manager (for the red wolf population defined in paragraph (c)(9)(i) of this section), the Park superintendent (for the red wolf population defined in paragraph (c)(9)(ii) of this section), or the State wildlife enforcement officer for investigation.

(vi) The provisions of paragraphs (4) (i) through (v) of this section apply to red wolves found in areas outside the areas defined in paragraphs (c)(9) (i) and (ii) of this section, with the exception that reporting of taking or harassment to the refuge manager, Park superintendent, or State wildlife enforcement officer, while encouraged, is not required.

(5) Any employee or agent of the Service or State conservation agency who is designated for such purposes, when acting in the course of official duties, may take a red wolf if such action is necessary to:

(i) Aid a sick, injured, or orphaned specimen;

(ii) Dispose of a dead specimen, or salvage a dead specimen which may be useful for scientific study;

(iii) Take an animal that constitutes a demonstrable but non-immediate threat to human safety or that is responsible for depredations to lawfully present domestic animals or other personal property, if it has not been possible to otherwise eliminate such depredation or loss of personal property, *Provided* That such taking must be done in a humane manner, and may involve killing or injuring the animal only if it has not been possible to eliminate such threat by live capturing and releasing the specimen unharmed on the refuge or Park;

(iv) Move an animal for genetic purposes.

(6) Any taking pursuant to paragraphs (c) (3) through (5) of this section must be immediately reported to either the Refuge Manager, Alligator River National Wildlife Refuge, Manteo, North Carolina, telephone 919/473–1131, or the Superintendent, Great Smoky Mountains National Park, Gatlinburg, Tennessee, telephone 615/436–1294. Either of these persons will determine disposition of any live or dead specimens.

(7) No person shall possess, sell, deliver, carry, transport, ship, import, or export by any means whatsoever, any such species taken in violation of these regulations or in violation of applicable State fish and wildlife laws or regulations or the Endangered Species Act.

(8) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraphs (c) (2) through (7) of this section.

(9)(i) The Alligator River reintroduction site is within the historic range of the species in North Carolina, in Dare, Hyde, Tyrrell, and Washington Counties; because of its proximity and potential conservation value, Beaufort County is also included in the experimental population designation.

(ii) The red wolf also historically occurred on lands that now comprise the Great Smoky Mountains National Park. The Park encompasses properties within Haywood and Swain Counties in North Carolina, and Blount, Cocke, and Sevier Counties in Tennessee. Graham, Jackson, and Madison Counties in North Carolina, and Monroe County in Tennessee, are also included in the experimental designation because of the close proximity of these counties to the Park boundary.

(iii) Except for the three island propagation projects and these small reintroduced populations, the red wolf is extirpated from the wild. Therefore, there are no other extant populations with which the refuge or Park experimental populations could come into contact.

(10) The reintroduced populations will be monitored closely for the duration of the project, generally using radio telemetry as appropriate. All animals released or captured will be vaccinated against diseases prevalent in canids prior to release. Any animal that is determined to be in need of special care or that moves onto lands where the landowner requests their removal will be recaptured, if possible, by Service and/or Park Service and/or designated State wildlife agency personnel and will be given appropriate care. Such animals will be released back into the wild as soon as possible, unless physical or behavioral problems make it necessary to return the animals to a captive-breeding facility.

(11) The status of the Alligator River National Wildlife Refuge project will be reevaluated by October 1, 1992, to determine future management status and needs. This review will take into account the reproductive success of the mated pairs, movement patterns of individual animals, food habits, and overall health of the population. The duration of the first phase of the Park project is estimated to be 10 to 12 months. After that period, an assessment of the reintroduction potential of the Park for red wolves will be made. If a second phase of reintroduction is attempted, the duration of that phase will be better defined during the assessment. However, it is presently thought that a second phase would last for 3 years, after which time the red wolf would be treated as a resident species within the Park. Throughout these periods, the experimental and nonessential designation of the animals will remain in effect.

(d) Southern sea otter (*Enhydra lutris nereis*). (1) *Definitions.* The definitions set out in §17.3 apply to this paragraph (d). For purposes of this paragraph—

(i) The term *defense-related agency action* means an agency action proposed to be carried out directly by a military department, which does not have as its intended purpose the taking of southern sea otters. For purposes of this definition, the United States Coast Guard is not a military department.

(ii) The term *management zone* means that area delineated in paragraph (d)(5)(i) of this section which surrounds the translocation zone and separates the translocation zone from the existing range of the parent population and adjacent range where expansion of the parent population is necessary for the recovery of southern sea otters.

(iii) The term *member of the experimental population of southern sea otters* includes any southern sea otter, alive or dead, found within the translocation zone or the management zone, and any part or product of any such southern sea otter.

(iv) The term *parent population* means the population of southern sea otters existing along the central California coast north of the management zone.

(v) The term *translocation zone* means the area delineated in paragraph (d)(4)(i) of this section within which an experimental population of southern sea otters is released and contained.

(vi) The term *established experimental population of southern sea otters* means a translocated population that meets the following criteria: An estimated combined minimum of 150 healthy male and female sea otters residing within the translocation zone, little or no emigration into the management zone occurring, and a minimum annual recruitment to the experimental population in the translocation zone of 20 sea otters for at least 3 years of the latest 5-year period, or replacement yield sufficient to maintain the experimental population at or near carrying capacity during the post-establishment and growth phase or carrying capacity phase of the experimental population.

(vii) The term *stabilized population* is a population of sea otters within the translocation zone at the conclusion of the movement of animals from the parent population, except for purposes of genetic enhancement, which (A) is equal to or greater than the number of otters that were released from the holding pens alive and healthy, or 70 otters, whichever is less, and (B) is exhibiting growth. A stabilized population would represent the point at which the experimental population shifts from the transplant stage to the initial growth and reestablishment stage.

(viii) The term *carrying capacity* means the ecological state in which the numbers of sea otters within the translocation zone remain relatively constant and in balance with the available food supply.

(2) *Description of experimental population.* The experimental population of southern sea otters shall include all southern sea otters found within the translocation zone or the management zone. The Service will translocate no more than 70 southern sea otters during the first year, supplemented as necessary with up to 70 otters per year in subsequent years from the parent population to the translocation zone. Although a maximum of 250 southern sea otters may be moved from the parent population in order to establish the experimental population in the translocation zone, it is not likely that supplemental translocation after the initial 70 will involve more than small numbers of southern sea otters, although under this plan a maximum of 70 could be moved if needed in each year up to a total of 250. The majority of animals translocated each year will be weaned, immature sea otters with a sex ratio of about 4 to 1, females to males. Of the adult sea otters selected for translocation, approximately 3 out of every 4 animals will be female.

(3) *Translocation process*—(i) *Capture.* Capture locations will be selected primarily from the southern third of the range of the parent population. Sea otters will be captured using diver-held devices, dip nets, surface entangling nets, or other methods which may be proven to be safe and effective in the future. All captured otters will be tagged and examined by a veterinarian experienced in treating marine mammals.

(ii) *Transport.* All animals to be translocated will be transported directly to the translocation zone or held in specially constructed holding facilities prior to their movement to the translocation zone. Access to and care of animals will be restricted to Federal and State personnel and designated agents directly involved with the translocation. Each captured animal will be placed in a carrying cage and transported by truck to the local airport, from which point they will be flown to the translocation zone. From there they will be trucked to the release site.

(iii) *Release.* The animals will be released directly into the wild from their transport cages, or held for up to 5 days in secured floating pens at the release site. No more than 10 individuals will be held in any pen, and adult males will be held separately. When held in floating pens the animals will be released passively by opening the floating pens and allowing animals to leave at will.

(iv) *Monitoring.* Monitoring will be conducted on both the parent population and the experimental population by State and Federal biologists and their designated agents. Monitoring the parent population will be done to determine the effects of removal of otters on the growth and range expansion or recession of the parent population. Monitoring of the parent population will continue at least through the translocation period and into the foreseeable future. Monitoring of the experimental population will begin with the first release of translocated otters and will continue at least until either the new population reaches the carrying capacity of the habitat and establishes an equilibrium density or the translocation is determined to have failed. Monitoring will include intensive studies of changes in key components of the nearshore ecosystem of the translocation zone including benthic organisms, kelp and finfish. Monitoring, using ground and aerial observations, will also include intensive observation and documentation of the movements, distribution, foraging and reproductive behavior, dispersal tendencies, growth and reproductive rates, prey selection, and social interactions of sea otters in the experimental population. Results of monitoring the experimental population and the parent population will also be compared and evaluated.

(v) *Protection.* At least two law enforcement officers will be specifically assigned, at least for the initial three- to five-year period after the actual translocation of animals, to conduct patrols and prevent illegal taking of southern sea otters in the translocation zone. Cooperative enforcement arrangements will be developed with other agencies having law enforcement activities in the area such as the U.S. Coast Guard, National Marine Fisheries Service, California Department of Fish and Game, U.S. Navy, and National Park Service to assist with protecting the experimental population.

(4) *Translocation zone.* (i) There is established a translocation zone for southern sea otters comprised of San Nicolas Island, Begg Rock, and the surrounding waters within the following coordinates:

N. Latitude/W. Longitude

33°27.8'/119°34.3'

33°20.5'/119°15.5'

33°13.5'/119°11.8'

33°06.5'/119°15.3'

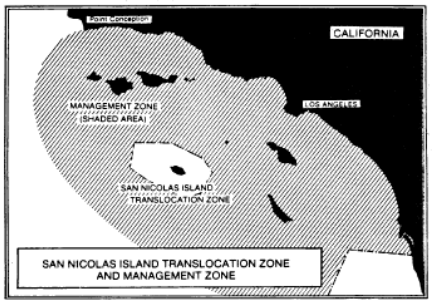
33°02.8'/119°26.8'

33°08.8'/119°46.3'

33°17.2'/119°56.9'

33°30.9'/119°54.2'

(ii) A map depicting the translocation zone is set forth below:



Translocation Zone Coordinates: (North Latitude/West Longitude)	Management Zone:
33°27.8'/119°34.3', 33°20.5'/119°15.5' 33°13.5'/119°11.8', 33°06.5'/119°15.3' 33°02.8'/119°26.8', 33°08.8'/119°46.3' 33°17.2'/119°56.9', 33°30.9'/119°54.2'	All U.S. areas south of Point Conception (34°26.9' N. Latitude) except the translocation zone.

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(iii) *Prohibitions.* Except as provided in paragraph (d)(4)(iv), all of the provisions in §17.21 (a) through (f) shall apply to any member of the experimental population of southern sea otters within the translocation zone.

(iv) *Exceptions.* The prohibitions of paragraph (d)(4)(iii) shall not apply to:

(A) Any act by the Service, the California Department of Fish and Game, or an authorized agent of the Service or the California Department of Fish and Game that is necessary to effect the relocation or management of any southern sea otter under the provisions of this paragraph;

(B) Any taking of a member of the experimental population of southern sea otters that is incidental to, and not the purpose of, the carrying out of a defense-related agency action as defined in paragraph (d)(1)(i) of this section; or

(C) Any act authorized by a permit issued under §17.32.

(5) *Management zone.* (i) There is established a management zone for southern sea otters comprised of all waters, islands, islets, and land areas seaward of mean high tide subject to the jurisdiction of the United States located south of Point Conception, California (34°26.9' N. Latitude), except for any area within the translocation zone delineated in paragraph (d)(4)(i) of this section.

(ii) A map depicting the management zone is set forth in paragraph (d)(4)(ii) of this section.

(iii) *Prohibitions.* Except as provided in paragraph (d)(5)(iv), all of the provisions in §17.21 (a) through (f) shall apply to any member of the experimental population of southern sea otters within the management zone.

(iv) *Exceptions.* The prohibitions of paragraph (d)(5)(iii) shall not apply to:

(A) Any act by the Service, the California Department of Fish and Game, or an authorized agent of the Service or the California Department of Fish and Game that is necessary to effect the relocation or management of any southern sea otter under the provisions of this paragraph;

(B) Any taking of a member of the experimental population of southern sea otters that is incidental to, and not the purpose of, the carrying out of an otherwise lawful activity within the management zone delineated in paragraph (d)(5)(i) of this section; or

(C) Any act authorized by a permit issued under §17.32.

(6) *Containment.* The following containment measures, listed in order of preference, will be employed to prevent significant emigration of southern sea otters from San Nicolas Island and occupation of habitat within the management zone:

(i) Capture of animals within the management zone for return to the experimental population or to the range of the parent population using non-lethal means. If verified sightings of one or more sea otters are made at any location within the management zone, field crews will be mobilized as soon as weather and sea conditions permit, to capture and remove the otter(s) from the zone. Capture will be done by experienced State and/or Federal personnel or other designated agents, using one or more of the same techniques used in the translocation effort, such as diver-held devices; surface entangling nets; dip nets; or other effective methods which may be developed for capturing sea otters in the future. Animals either will be flown or moved by air-conditioned van to the release site.

(ii) Artificial reduction of fecundity for some sea otters within the experimental population. [Reserved]

(iii) Selective or random, non-lethal removal of members of the experimental population within the translocation zone. [Reserved]

Containment measures will be administered by the Fish and Wildlife Service's Office of Sea Otter Management and Coordination (OSOMC), in consultation and cooperation with the California Department of Fish and Game. The OSOMC will work closely with State biologists to remove otters from the management zone. Federal funding received through the normal appropriations process will be used for research, protection, and containment of the experimental population. Grants to the State of California under 16 U.S.C. 1535, may be employed to facilitate the measures outlined above. Public donations for management and containment of the experimental population will be accepted with assistance from the National Fish and Wildlife Foundation.

(7) *Effects of translocation on recovery and interagency cooperation*—(i) *Background.* The Recovery Plan specifically describes the importance of translocation to the delisting of the southern sea otter under the Endangered Species Act. The Plan states:

Sea otter translocation, if properly designed and implemented, should provide the necessary foundation for ultimately obtaining the Recovery Plan's objective and restoring the southern sea otter to a non-threatened

status and maintaining OSP by: (i) Establishing a second colony (or colonies) sufficiently distant from the present population such that a smaller portion of southern sea otters will be jeopardized in the event of a large-scale oil spill, and (ii) establishing a data base for identifying the optimal sustainable population level for the sea otter.

Thus the translocation, and establishment of a population of sea otters has been identified by the Recovery Plan as a critical action necessary for the recovery and delisting of the species. With regard to the relationship of a successful translocation to the initiation of a delisting action under the Endangered Species Act. The Plan states:

Delisting should be considered when the southern sea otter population is stable or increasing at sustainable rates in a large enough area of their original habitat that only a small proportion of the population would be decimated by any single natural or man-caused catastrophe. To reach this point: (1) At least one additional population of sea otters must be established outside the current population range, (2) the existing population of sea otters and its habitat must be protected, and (3) the threat from oil spills or other major environmental changes must be minimized.

The successful establishment of the experimental population to be carried out pursuant to this rule should fully satisfy the first criterion specified above from the Recovery Plan, provided that the parent population is showing sustained growth and expanding its range from its present size and distribution. However, if such growth and expansion is not occurring, the establishment of a single new population may not be sufficient to satisfy the broader criterion that the population must be increasing at a sustainable rate in a large enough area of their original habitat that only a small proportion of the population would be decimated by any single natural or man-caused catastrophe.

(ii) *Effect on recovery.* The translocation will not influence the legal status of the species until such time as the Service determines that the experimental population is established. Once established, other factors such as the status of the parent population and completion of other recovery tasks will be considered. If the experimental population becomes established and the other recovery tasks identified in the recovery plan for the southern sea otter are attained, the southern sea otter will be eligible for consideration for delisting in accordance with the requirements of 50 CFR 424.11(d). If a catastrophic event were to significantly diminish the parent population, the size of the experimental population would be a factor in determining whether or not the southern sea otter should remain listed as “threatened” or reclassified as “endangered,” or if relisting should be considered if a delisting action had been completed.

(iii) *Effect on interagency cooperation.* In determining the likelihood of jeopardy or non-jeopardy opinions for proposed Federal actions that “may affect” southern sea otters, the probability of jeopardy determinations will decrease proportionally for comparable projects with comparable types of impacts as the experimental population grows from the point of being established toward the maximum number that its habitat can support, i.e., carrying capacity. Thus, there is an inverse relationship between the size of the experimental population (after being determined to be established) and the probability of jeopardy determinations associated with section 7 consultations under the Endangered Species Act for projects affecting either the parent or the experimental population. However, the status of the experimental population is not the only factor to be considered in section 7 evaluations. The status of the parent population, as well as the cumulative impacts, baseline level of threats, and effects of the action on either population, will also be taken into account. In addition to considering the size of the experimental population, the contribution that such population could make toward helping restore a damaged parent population will also be a factor that will be considered during section 7 evaluations. For section 7 purposes, once the translocated otters become stabilized and enter into the initial growth and reestablishment stage, but before meeting the criteria for an established population, the experimental population will have an existence value that will be taken into consideration both quantitatively and qualitatively. Its numbers will be added to those of the parent population for purposes of analyzing the impacts of a Federal action on the southern sea otter population. Moreover, during the initial growth and reestablishment stage, as part of the analysis of the impacts on the population as a whole, the impacts of proposed Federal actions will be analyzed to clearly determine the relative risk to each of the two populations (parent population and the experimental population).

(8) *Determination of a failed translocation.* The translocation would generally be considered to have failed if one or more of the following conditions exists:

(i) If, after the first year following initiation of translocation or any subsequent year, no translocated otters remain within the translocation zone and the reasons for emigration or mortality cannot be identified and/or remedied;

(ii) If, within three years from the initial transplant, fewer than 25 otters remain in the translocation zone and the reason for emigration or mortality cannot be identified and/or remedied;

(iii) If, after two years following the completion of the transplant phase, the experimental population is declining at a significant rate and the translocated otters are not showing signs of successful reproduction (i. e., no pupping is observed); however, termination of the project under this and the previous criterion may be delayed if reproduction is occurring and the degree of dispersal into the management zone is small enough that the efforts to continue to remove otters from the management zone are acceptable to the Service and California Department of Fish and Game;

(iv) If the Service determines, in consultation with the affected State and Marine Mammal Commission, that otters are dispersing from the translocation zone and becoming established within the management zone in sufficient numbers to demonstrate that containment cannot be successfully accomplished. This standard is not intended to apply to situations in which individuals or small numbers of otters are sighted within the management zone or temporarily manage to elude capture. Instead, it is meant to be applied when it becomes apparent that, over time, otters are relocating from the translocation zone to the management zone in such numbers that: (A) An independent breeding colony is likely to become established within the management zone, or (B) they could cause economic damage to fishery resources within the management zone. It is expected that the Service could make this determination within a year provided sufficient information is available;

(v) If the health and well-being of the experimental population should become threatened to the point that the colony's continued survival is unlikely, despite the protections given to it by the Service, State, and applicable laws and regulations. An example would be if an overriding military action for national security was proposed that would threaten to devastate the colony and removal of the otters was determined to be the only viable way of preventing the loss of the individuals.

(vi) If, based on any one of these criteria, the Service concludes, after consultation with the affected State and Marine Mammal Commission, that the translocation has failed to produce a viable, contained experimental population, this rulemaking will be amended to terminate the experimental population, and all otters remaining within the translocation zone will be captured and all healthy otters will be placed back into the range of the parent population. Efforts to maintain the management zone free of otters will be curtailed after all reasonable efforts have been made to remove all otters that are still within the management zone at

the time of the decision to terminate the translocated population. A joint State-Service consultation will determine when all reasonable efforts have been made and additional efforts would be futile.

(vii) Prior to declaring the translocation a failure, a full evaluation will be conducted into the probable causes of the failure. If the causes could be determined, and legal and reasonable remedial measures identified and implemented, consideration will be given to continuing to maintain the translocated population. If such reasonable measures cannot be identified and implemented, the results of the evaluation will be published in the Federal Register with a proposed rulemaking to terminate the experimental population.

(e) Yellowfin madtom (*Noturus flavipinnis*).

(1) Where is the yellowfin madtom designated as a nonessential experimental population (NEP)? We have designated two populations of this species as NEPs: the North Fork Holston River Watershed NEP and the Tellico River NEP.

(i) The North Fork Holston River Watershed NEP area is within the species' historic range and is defined as follows: The North Fork Holston River watershed, Washington, Smyth, and Scott Counties, Virginia; South Fork Holston River watershed upstream to Ft. Patrick Henry Dam, Sullivan County, Tennessee; and the Holston River from the confluence of the North and South Forks downstream to the John Sevier Detention Lake Dam, Hawkins County, Tennessee. This site is totally isolated from existing populations of this species by large Tennessee River tributaries and reservoirs. As the species is not known to inhabit reservoirs and because individuals of the species are not likely to move 100 river miles through these large reservoirs, the possibility that this population could come in contact with extant wild populations is unlikely.

(ii) The Tellico River NEP area is within the species' historic range and is defined as follows: The Tellico River, between the backwaters of the Tellico Reservoir (approximately Tellico River mile 19 (30.4 kilometers) and Tellico River mile 33 (52.8 kilometers), near the Tellico Ranger Station, Monroe County, Tennessee. This species is not currently known to exist in the Tellico River or its tributaries. Based on its habitat requirements, we do not expect this species to become established outside this NEP area. However, if individuals of this population move upstream or downstream or into tributaries outside the designated NEP area, we would presume that they came from the reintroduced population. We would then amend this rule and enlarge the boundaries of the NEP area to include the entire range of the expanded population.

(2) We do not intend to change the NEP designations to “essential experimental,” “threatened,” or “endangered” within the NEP areas. Additionally, we will not designate critical habitat for these NEPs, as provided by 16 U.S.C. 1539(j)(2)(C)(ii).

(3) What activities are not allowed in the NEP areas?

(i) Except as expressly allowed in paragraph (e)(4) of this section, all the prohibitions of §17.31 (a) and (b) apply to the fishes identified in paragraph (e)(1) of this section.

(ii) Any manner of take not described under paragraph (e)(4) of this section is prohibited in the NEP area. We may refer unauthorized take of these fishes to the appropriate authorities for prosecution.

(iii) You may not possess, sell, deliver, carry, transport, ship, import, or export by any means whatsoever any of the identified fishes, or parts thereof, that are taken or possessed in violation of paragraph (e)(3) of this section or in violation of the applicable State fish and wildlife laws or regulations or the Act.

(iv) You may not attempt to commit, solicit another to commit, or cause to be committed any offense defined in paragraph (e)(3) of this section.

(4) What take is allowed in the NEP area? Take of this species that is incidental to an otherwise legal activity, such as recreation (e.g., fishing, boating, wading, trapping, or swimming), forestry, agriculture, and other activities that are in accordance with Federal, State, and local laws and regulations, is allowed.

(5) How will the effectiveness of these reintroductions be monitored? We will prepare periodic progress reports and fully evaluate these reintroduction efforts after 5 and 10 years to determine whether to continue or terminate the reintroduction efforts.

(f) Guam Rail (*Rallus owstoni*). (1) The Guam rail population identified in paragraph (f)(7) of this section is a nonessential experimental population.

(2) No person shall take this species, except:

(i) In accordance with a valid permit issued by the Service under §17.32 for educational purposes, scientific purposes, the enhancement of propagation or survival of the species, zoological exhibition, and other conservation purposes consistent with the Act; or

(ii) As authorized by the laws and regulations of the Commonwealth of the Northern Mariana Islands, after the Service has made the determination that the experimental population has become well established and occupies all suitable habitat island-wide.

(3) Any employee of the Service, the Commonwealth of the Northern Mariana Islands Division of Fish and Wildlife, or the Guam Division of Aquatic and Wildlife Resources who is designated for such purposes, may, when acting in the course of official duties, take a Guam rail without a permit if such action is necessary to:

(i) Aid a sick, injured, or orphaned specimen;

(ii) Dispose of a dead specimen;

(iii) Salvage a dead specimen that may be useful for scientific study; or

(iv) Take an animal that is responsible for depredations to personal property if it has not been possible to otherwise eliminate such depredations and/or loss of personal property, provided that such taking must be done in a humane manner and may involve injuring or killing the bird only if it has not been possible to eliminate depredations by live capturing and releasing the specimen unharmed in other suitable habitats.

(4) Any violation of applicable commonwealth of the Northern Mariana Islands fish and wildlife conservation laws or regulations with respect to the taking of this species (other than taking as described in paragraph (f)(2)(ii) of this section) will also be a violation of the Endangered Species Act.

(5) No person shall possess, sell, deliver, carry, transport, ship, import, or export by any means whatsoever,

any such species taken in violation of these regulations or in violation of applicable Commonwealth of the Northern Mariana Islands fish and wildlife laws or regulations or the Endangered Species Act.

(6) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraphs (f) (2) through (5) of this section.

(7) The sites for introduction of Guam rails on Rota, Commonwealth of the Northern Mariana Islands, are on an island separated from Guam by 50 kilometers of ocean. The last known observation of an individual of this species occurred near the northern tip of Guam, which is closest to the island of Rota. No intermingling of these populations will occur since this species has been extirpated in the wild on Guam. The Rota release sites are of necessity outside the historic range of the Guam rail, as described in this regulation, because its primary range has been unsuitably and irreversibly destroyed by the brown tree snake.

(8) The nonessential experimental population on Rota will be checked periodically by staff of the Commonwealth of the Northern Mariana Islands Division of Fish and Wildlife and cooperating staff from the University of Tennessee to determine dispersal patterns, mortality, and reproductive success. The overall success of the releases and general health of the population will also be assessed.

(g) Black-footed ferret (*Mustela nigripes*).

(1) The black-footed ferret populations identified in paragraph (g)(9)(i) through (vii) of this section are nonessential experimental populations. We will manage each of these populations in accordance with their respective management plans.

(2) No person may take this species in the wild in the experimental population area, except as provided in paragraphs (g)(3), (4), (5), and (10) of this section.

(3) Any person with a valid permit issued by the U.S. Fish and Wildlife Service (Service) under section 17.32 may take black-footed ferrets in the wild in the experimental population areas.

(4) Any employee or agent of the Service or appropriate State wildlife agency designated for such purposes, acting in the course of official duties, may take a black-footed ferret in the wild in the experimental population areas if such action is necessary:

(i) For scientific purposes;

(ii) To relocate a ferret to avoid conflict with human activities;

(iii) To relocate a ferret that has moved outside the Little Snake Black-footed Ferret Management Area/ Coyote Basin Primary Management Zone or the Rosebud Sioux Reservation Experimental Population Area when that relocation is necessary to protect the ferret or is requested by an affected landowner or land manager, or whose removal is requested pursuant to paragraph (g)(12) of this section.

(iv) To relocate ferrets within the experimental population area to improve ferret survival and recovery prospects;

(v) To relocate ferrets from the experimental population areas into other ferret reintroduction areas or captivity;

(vi) To aid a sick, injured, or orphaned animal; or

(vii) To salvage a dead specimen for scientific purposes.

(5) A person may take a ferret in the wild within the experimental population areas, provided such take is incidental to and not the purpose of, the carrying out of an otherwise lawful activity and if such ferret injury or mortality was unavoidable, unintentional, and did not result from negligent conduct. Such conduct is not considered intentional or “knowing take” for the purposes of this regulation, and the Service will not take legal action for such conduct. However, we will refer cases of knowing take to the appropriate authorities for prosecution.

(6) You must report any taking pursuant to paragraphs (g)(3), (4)(vi) and (vii), and (5) of this section to the appropriate Service Field Supervisor, who will determine the disposition of any live or dead specimens.

(i) Report such taking in the Shirley Basin/Medicine Bow experimental population area to the Field Supervisor, Ecological Services, Fish and Wildlife Service, Cheyenne, Wyoming (telephone: 307/772–2374).

(ii) Report such taking in the Conata Basin/Badlands experimental population area to the Field Supervisor, Ecological Services, Fish and Wildlife Service, Pierre, South Dakota (telephone: 605/224–8693).

(iii) Report such taking in the northcentral Montana experimental population area to the Field Supervisor, Ecological Services, Fish and Wildlife Service, Helena, Montana (telephone: 406/449–5225).

(iv) Report such taking in the Aubrey Valley experimental population area to the Field Supervisor, Ecological Services, Fish and Wildlife Service, Phoenix, Arizona (telephone: 602/640–2720).

(v) Report such taking in the northwestern Colorado/northeastern Utah experimental population area to the appropriate Field Supervisor, Ecological Services, U.S. Fish and Wildlife Service, Lakewood, Colorado (telephone: 303/275–2370), or Salt Lake City, Utah (telephone: 801/524–5001).

(vi) Report such taking in the Cheyenne River Sioux Tribe Experimental Population Area to the Field Supervisor, Ecological Services, U.S. Fish and Wildlife Service, Pierre, South Dakota (telephone 605/224–8693).

(vii) Report such taking in the Rosebud Sioux Reservation Experimental Population Area to the Field Supervisor, Ecological Services, U.S. Fish and Wildlife Service, Pierre, South Dakota (telephone 605/224–8693).

(7) No person shall possess, sell, deliver, carry, transport, ship, import, or export by any means whatsoever, any ferret or part thereof from the experimental populations taken in violation of these regulations or in violation of applicable State fish and wildlife laws or regulations or the Endangered Species Act.

(8) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to commit, any offense defined in paragraphs (g)(2) and (7) of this section.

(9) The sites for reintroduction of black-footed ferrets are within the historical range of the species.

(i) We consider the Shirley Basin/Medicine Bow Management Area on the attached map of Wyoming to be the core recovery area for this species in southeastern Wyoming. The boundaries of the nonessential experimental population are that part of Wyoming south and east of the North Platte River within Natrona, Carbon, and Albany Counties (see Wyoming map). All marked ferrets found in the wild within these boundaries prior to the first breeding season following the first year of releases constituted the nonessential experimental population during this period. All ferrets found in the wild within these boundaries during and after the first breeding season following the first year of releases comprise the nonessential experimental population, thereafter.

(ii) We consider the Conata Basin/Badlands Reintroduction Area on the attached map for South Dakota to be the core recovery area for this species in southwestern South Dakota. The boundaries of the nonessential experimental population area occur north of State Highway 44 and BIA Highway 2 east of the Cheyenne River and BIA Highway 41, south of I–90, and west of State Highway 73 within Pennington, Shannon, and Jackson Counties, South Dakota. Any black-footed ferret found in the wild within these boundaries is part of the nonessential experimental population after the first breeding season following the first year of releases of black-footed ferret in the Reintroduction Area. A black-footed ferret occurring outside the experimental population area in South Dakota is considered as endangered but may be captured for genetic testing. We will dispose of the captured animal in one of the following ways if necessary:

(A) We may return an animal genetically related to the experimental population to the Reintroduction Area or to a captive facility.

(B) Under an existing contingency plan, we will use up to nine black-footed ferrets genetically unrelated to the experimental population in the captive-breeding program. If a landowner outside the experimental population area wishes to retain black-footed ferrets on his property, we will develop a conservation agreement or easement with the landowner.

(iii) We consider the Northcentral Montana Reintroduction Area shown on the attached map for Montana to be the core recovery area for this species in northcentral Montana. The boundaries of the nonessential experimental population are those parts of Phillips and Blaine Counties, Montana, described as the area bounded on the north beginning at the northwest corner of the Fort Belknap Indian Reservation on the Milk River; east following the Milk River to the east Phillips County line; then south along said line to the Missouri River; then west along the Missouri River to the west boundary of Phillips County; then north along said county line to the west boundary of Fort Belknap Indian Reservation; then further north along said boundary to the point of origin at the Milk River. All marked ferrets found in the wild within these boundaries prior to the first breeding season following the first year of releases constituted the nonessential experimental population during this period. All ferrets found in the wild within these boundaries during and after the first breeding season following the first year of releases comprise the nonessential experimental population thereafter. A black-footed ferret occurring outside the experimental area in Montana is initially considered as endangered but may be captured for genetic testing. We will dispose of the captured animal in one of the following ways if necessary:

(A) We may return an animal genetically related to the experimental population to the reintroduction area or to a captive facility.

(B) Under an existing contingency plan, we will use up to nine black-footed ferrets genetically unrelated to the experimental population in the captive-breeding program. If a landowner outside the experimental population area wishes to retain black-footed ferrets on his property, we will develop a conservation agreement or easement with the landowner.

(iv) We consider the Aubrey Valley Experimental Population Area shown on the attached map for Arizona to be the core recovery area for this species in northwestern Arizona. The boundary of the nonessential experimental population area is those parts of Coconino, Mohave, and Yavapai Counties that include the Aubrey Valley west of the Aubrey Cliffs, starting from Chino Point, north along the crest of the Aubrey cliffs to the Supai Road (State Route 18), southwest along the Supai Road to Township 26 North, then west to Range 11 West, then south to the Hualapai Indian Reservation boundary, then east and northeast along the Hualapai Indian Reservation boundary to U.S. Highway Route 66; then southeast along Route 66 for approximately 6 km (2.3 miles) to a point intercepting the east boundary of section 27, Township 25 North, Range 9 West; then south along a line to where the Atchison-Topeka Railroad enters Yampa Divide Canyon; then southeast along the Atchison-Topeka Railroad alignment to the intersection of the Range 9 West/Range 8 West boundary; then south to the SE corner of section 12, Township 24 North, Range 9 West; then southeast to SE corner section 20, Township 24 West, Range 8 West; then south to the SE corner section 29, Township 24 North, Range 8 West; then southeast to the half section point on the east boundary line of section 33, Township 24 North, Range 8 West; then northeast to the SE corner of section 27, Township 24 North, Range 8 West; then southeast to the SE corner Section 35, Township 24 North, Range 8 West; then southeast to the half section point on the east boundary line of section 12, Township 23 North, Range 8 West; then southeast to the SE corner of section 8, Township 23 North, Range 7 West; then southeast to the SE corner of section 16, Township 23 North, Range 7 West; then east to the half section point of the north boundary line of section 14, Township 23 North, Range 7 West; then south to the half section point on the north boundary line of section 26, Township 23 North, Range 7 West; then east along section line to route 66; then southeast along route 66 to the point of origin at Chino Point. Any black-footed ferrets found in the wild within these boundaries is part of the nonessential experimental population after the first breeding season following the first year of releases of ferrets into the reintroduction area. A black-footed ferret occurring outside the experimental area in Arizona is initially considered as endangered but may be captured for genetic testing. We will dispose of the captured animal in one of the following ways if necessary:

(A) We may return an animal genetically related to the experimental population to the reintroduction area or to a captive facility. If a landowner outside the experimental population area wishes to retain black-footed ferrets on his property, we will develop a conservation agreement or easement with the landowner.

(B) Under an existing contingency plan, we will use up to nine black-footed ferrets genetically unrelated to the experimental population in the captive-breeding program. If a landowner outside the experimental population area wishes to retain black-footed ferrets on his property, we will develop a conservation agreement or easement with the landowner.

(v) We consider the Little Snake Black-footed Ferret Management Area in Colorado and the Coyote Basin Black-footed Ferret Primary Management Zone in Utah as the initial recovery sites for this species within the Northwestern Colorado/Northeastern Utah Experimental Population Area (see Colorado/Utah map). The boundaries of the nonessential Experimental Population Area will be all of Moffat and Rio Blanco Counties in Colorado west of Colorado State Highway 13; all of Uintah and Duchesne Counties in Utah; and in Sweetwater County, Wyoming, the line between Range 96 and 97 West (eastern edge), Range 102 and 103 West (western edge), and Township 14 and 15 North (northern edge). All marked ferrets found in the wild within these boundaries prior to the first breeding season following the first year of release will constitute the nonessential experimental population during this period. All ferrets found in the wild within these

boundaries during and after the first breeding season following the first year of releases of ferrets into the reintroduction area will comprise the nonessential experimental population thereafter. A black-footed ferret occurring outside the Experimental Population Area is initially considered as endangered but may be captured for genetic testing. We will dispose of the captured animal in one of the following ways if necessary:

(A) We may return an animal genetically related to the experimental population to the Reintroduction Area or to a captive facility.

(B) Under an existing contingency plan, we will use up to nine black-footed ferrets genetically unrelated to the experimental population in the captive-breeding program. If a landowner outside the experimental population area wishes to retain black-footed ferrets on his property, we will develop a conservation agreement or easement with the landowner.

(vi) The Cheyenne River Sioux Tribe Reintroduction Area is shown on the map of north-central South Dakota at the end of paragraph (g) of this section. The boundaries of the nonessential experimental population area are the exterior boundaries of the Cheyenne River Sioux Reservation which includes all of Dewey and Ziebach Counties, South Dakota. Any black-footed ferret found in the wild within these counties will be considered part of the nonessential experimental population after the first breeding season following the first year of black-footed ferret release. A black-footed ferret occurring outside the Experimental Population Area in north-central South Dakota would initially be considered as endangered but may be captured for genetic testing. When a ferret is found outside the Experimental Population Area, the following may occur:

(A) If an animal is genetically determined to have originated from the experimental population, we may return it to the reintroduction area or to a captive-breeding facility.

(B) If an animal is determined to be genetically unrelated to the experimental population, we will place it in captivity under an existing contingency plan. Up to nine black-footed ferrets may be taken for use in the captive-breeding program.

(vii) The Rosebud Sioux Reservation Experimental Population Area is shown on the map of south-central South Dakota at the end of paragraph (g) of this section. The boundaries of the nonessential experimental population area include all of Gregory, Mellette, Todd, and Tripp Counties in South Dakota. Any black-footed ferret found within these four counties will be considered part of the nonessential experimental population after the first breeding season following the first year of black-footed ferret release. A black-footed ferret occurring outside the nonessential experimental population area in south-central South Dakota will initially be considered as endangered but may be captured for genetic testing. If necessary, disposition of the captured animal may occur in the following ways:

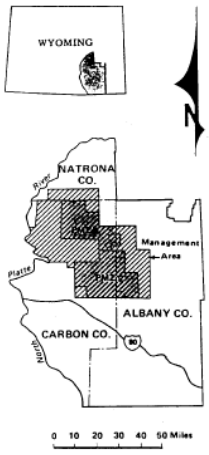
(A) If an animal is genetically determined to have originated from the experimental population, we may return it to the reintroduction area or to a captive-breeding facility.

(B) If an animal is determined to be genetically unrelated to the experimental population, we will place it in captivity under an existing contingency plan. Up to nine black-footed ferrets may be taken for use in the captive-breeding program.

(10) Monitoring the reintroduced populations will occur continually during the life of the project, including the use of radio telemetry and other remote sensing devices, as appropriate. Vaccination of all released animals will occur prior to release, as appropriate, to prevent diseases prevalent in mustelids. Any animal that is sick, injured, or otherwise in need of special care may be captured by authorized personnel of the Service or appropriate State wildlife agency or their agents and given appropriate care. Such an animal may be released back to its appropriate reintroduction area or another authorized site as soon as possible, unless physical or behavioral problems make it necessary to return the animal to captivity.

(11) We will reevaluate the status of the experimental population within the first five years after the first year of release of black-footed ferrets to determine future management needs. This review will take into account the reproductive success and movement patterns of the individuals released into the area, as well as the overall health of the experimental population and the prairie dog ecosystem in the above described areas. We will propose reclassification of the black-footed ferret when we meet the appropriate recovery objectives for the species.

(12) We will not include a reevaluation of the “nonessential experimental” designation for these populations during our review of the initial five year reintroduction program. We do not foresee any likely situation justifying alteration of the nonessential experimental status of these populations. Should any such alteration prove necessary and it results in a substantial modification to black-footed ferret management on non-Federal lands, any private landowner who consented to the introduction of black-footed ferrets on their lands may rescind their consent, and at their request, we will relocate the ferrets pursuant to paragraph (g)(4)(iii) of this section.



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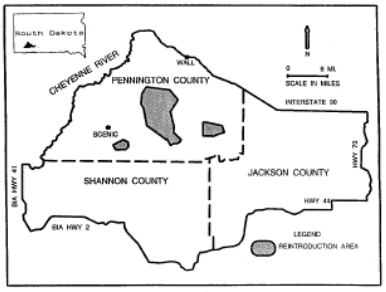

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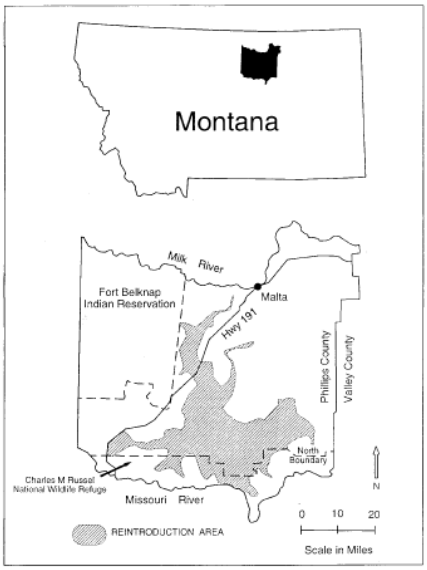

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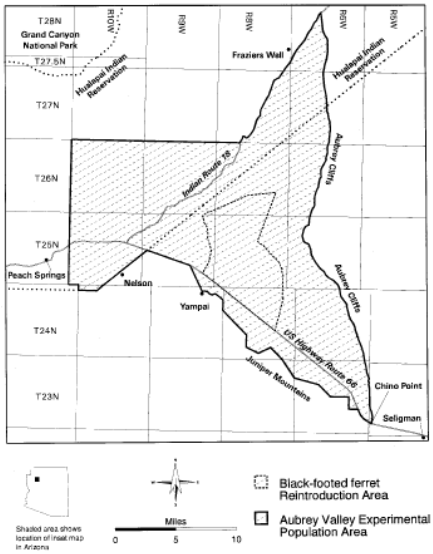

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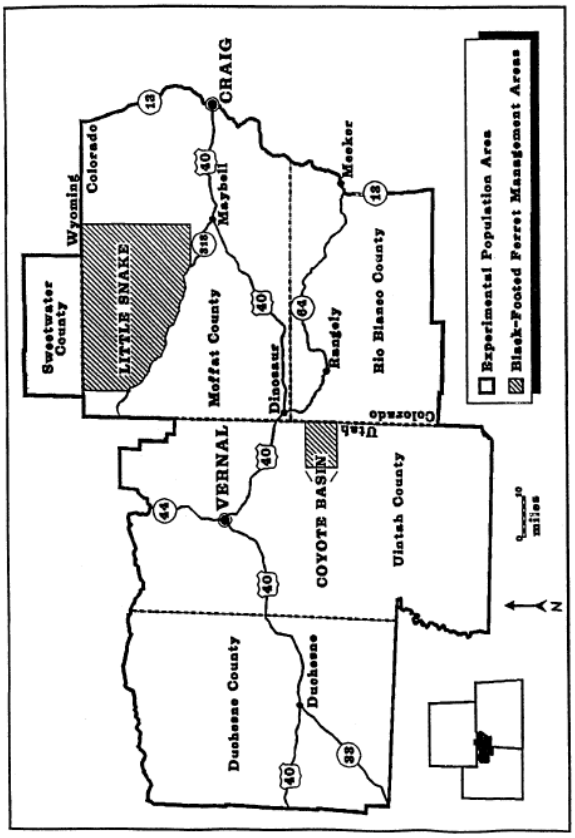

Map Showing the Boundaries of the Black-footed Ferret Experimental Population Area and the Management Area/PMZ for Northwestern Colorado/Northeastern Utah.

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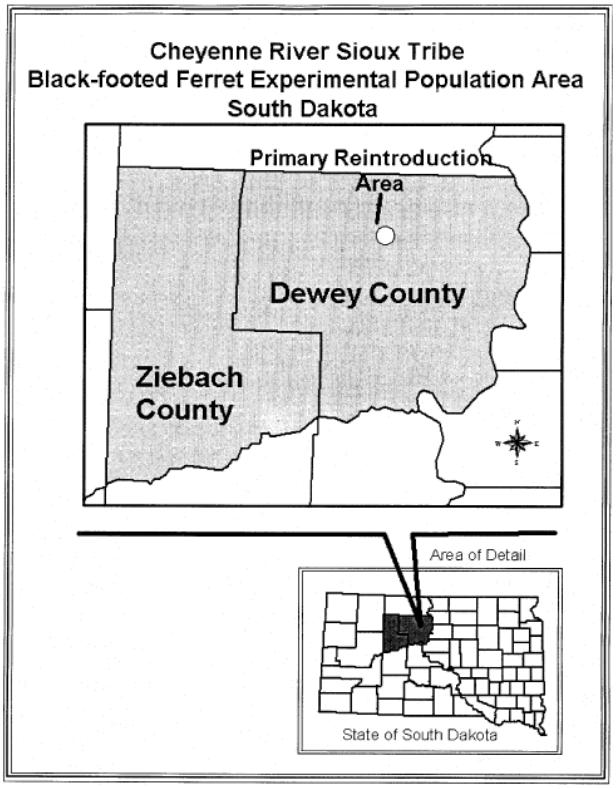

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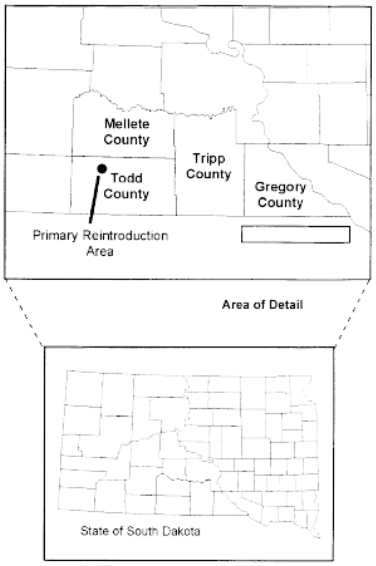

Rosebud Sioux Tribe ITOPA SAPA KIN (Black-footed Ferret) Experimental Population Area - South Dakota

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(h) Whooping crane (*Grus americana*). (1) The whooping crane populations identified in paragraphs (h)(9)(i) through (iii) of this section are nonessential experimental populations.

(2) No person may take this species in the wild in the experimental population areas except when such take is accidental and incidental to an otherwise lawful activity, or as provided in paragraphs (h)(3) and (4) of this section. Examples of otherwise lawful activities include, but are not limited to, agricultural practices, pesticide application, water management, construction, recreation, trapping, or hunting, when such activities are in full compliance with all applicable laws and regulations.

(3) Any person with a valid permit issued by the Fish and Wildlife Service (Service) under §17.32 may take whooping cranes in the wild in the experimental population area for educational purposes, scientific purposes, the enhancement of propagation or survival of the species, and other conservation purposes consistent with the Act and in accordance with applicable State fish and wildlife conservation laws and regulations.

(4) Any employee or agent of the Service or State wildlife agency who is designated for such purposes, when acting in the course of official duties, may take a whooping crane in the wild in the experimental population area if such action is necessary to:

(i) Relocate a whooping crane to avoid conflict with human activities;

(ii) Relocate a whooping crane that has moved outside the eastern U.S. population area identified in paragraph (h)(9)(iii) of this section, or the Kissimmee Prairie or Rocky Mountain range of the experimental populations, when removal is necessary or requested and is authorized by a valid permit under §17.22;

(iii) Relocate whooping cranes within the experimental population areas to improve survival and recovery prospects;

(iv) Relocate whooping cranes from the experimental population areas into captivity;

(v) Aid a sick, injured, or orphaned specimen; or

(vi) Dispose of a dead specimen, or salvage a dead specimen which may be useful for scientific study.

(5) Any taking pursuant to paragraphs (h)(3) and (4) of this section must be immediately reported to the National Whooping Crane Coordinator, U.S. Fish and Wildlife Service, P.O. Box 100, Austwell, Texas 77950 (Phone: 361–286–3559), who, in conjunction with his counterpart in the Canadian Wildlife Service, will determine the disposition of any live or dead specimens.

(6) No person shall possess, sell, deliver, carry, transport, ship, import, or export by any means whatsoever, any such species from the experimental populations taken in violation of these regulations or in violation of applicable State fish and wildlife laws or regulations or the Endangered Species Act.

(7) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraphs (h) (2) through (6) of this section.

(8) The Service will not mandate any closure of areas, including National Wildlife Refuges, during hunting or conservation order seasons or closure or modification of hunting or conservation order seasons in the following situations:

(i) For the purpose of avoiding take of the nonessential experimental population identified in paragraph (h)(9)(iii) of this section;

(ii) If a clearly marked whooping crane from the nonessential experimental population identified in (h)(9)(iii) wanders outside the designated NEP area. In these situations, the Service will attempt to capture the stray bird and return it to the appropriate area if removal is requested by the State.

(9) All whooping cranes found in the wild within the boundaries listed in paragraphs (h)(9)(i) through (iii) of this section will be considered nonessential experimental animals. Geographic areas the nonessential experimental populations may inhabit include the following—

(i) The entire State of Florida. The reintroduction site is the Kissimmee Prairie portions of Polk, Osceola, Highlands, and Okeechobee Counties. Current information indicates that the Kissimmee Prairie is within the historic range of the whooping crane in Florida.

(A) No other natural populations of whooping cranes are likely to come into contact with the experimental population at Kissimmee Prairie. The only natural extant population, known as the Aransas/Wood Buffalo National Park population occurs well west of the Mississippi River. This population nests in the Northwest Territories and adjacent areas of Alberta, Canada, primarily within the boundaries of the Wood Buffalo National Park, and winters along the Central Texas Gulf of Mexico coast at Aransas National Wildlife Refuge. The only other extant eastern U.S. population is the nonessential experimental population described in paragraph (h)(9)(iii) of this section. Remnant individuals of the Rocky Mountain nonessential experimental population occur in the western United States as described in paragraph (h)(9)(ii) of this section.

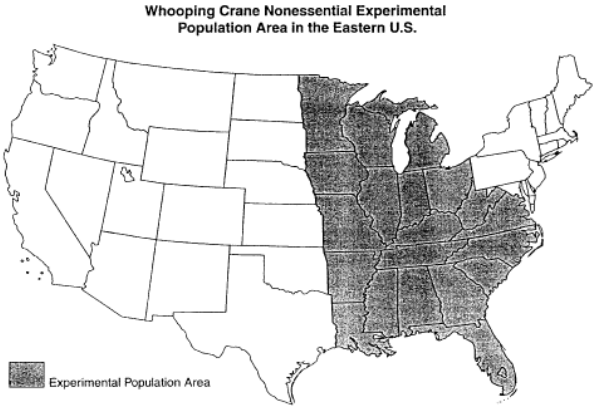
(B) Whooping cranes adhere to ancestral breeding grounds, leaving little possibility that individuals from the extant Aransas/Wood Buffalo National Park population will stray into Florida or the Rocky Mountain Population. Studies of whooping cranes have shown that migration is a learned rather than an innate behavior. The experimental population released at Kissimmee Prairie is expected to remain mostly within the prairie region of central Florida.

(ii) The States of Colorado, Idaho, New Mexico, Utah, and the western half of Wyoming. Wooping cranes in this area do not come in contact with whooping cranes of the Aransas/Wood Buffalo Population; and

(iii) That portion of the eastern contiguous United States which includes the States of Alabama, Arkansas, Florida, Georgia, Illinois, Indiana, Iowa, Kentucky, Louisiana, Michigan, Minnesota, Mississippi, Missouri, North Carolina, Ohio, South Carolina, Tennessee, Virginia, West Virginia, and Wisconsin. (See map following paragraph (h)(11) of this section). Whooping cranes within this population are expected to occur mostly within the States of Wisconsin, Illinois, Indiana, Kentucky, Tennessee, Georgia, and Florida, which is within the historic range of the whooping crane in the United States. The additional States included within the experimental population area are those expected to receive occasional use by the cranes, or which may be used as breeding or wintering areas in the event of future population expansion. Whooping cranes in this population are not expected to come in contact with whooping cranes of the Aransas/Wood Buffalo National Park Population.

(10) The reintroduced populations will be monitored during the duration of the projects by the use of radio telemetry and other appropriate measures. Any animal that is determined to be sick, injured, or otherwise in need of special care will be recaptured to the extent possible by Service and/or State wildlife personnel or their designated agent and given appropriate care. Such animals will be released back to the wild as soon as possible, unless physical or behavioral problems make it necessary to return them to a captive breeding facility.

(11) The status of the experimental populations will be reevaluated periodically to determine future management needs. This review will take into account the reproductive success and movement patterns of the individuals released within the experimental population areas.



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(i) Gray wolf (*Canis lupus*). (1) The gray wolves (wolf) identified in paragraph (i)(7) of this section are nonessential experimental. These wolves will be managed in accordance with the respective provisions of this section.

(2) The Service finds that reintroduction of nonessential experimental gray wolves, as defined in (i)(7) of this section, will further the conservation of the species.

(3) No person may take this species in the wild in an experimental population area except as provided in paragraphs (i)(3), (7), and (8) of this section.

(i) Landowners on their private land and livestock producers (i.e., producers of cattle, sheep, horses, and mules or as defined in State and tribal wolf management plans as approved by the Service) that are legally using public land (Federal land and any other public lands designated in State and tribal wolf management plans as approved by the Service) may harass any wolf in an opportunistic (the wolf cannot be purposely attracted, tracked, waited for, or searched out, then harassed) and noninjurious (no temporary or permanent physical damage may result) manner at any time, *Provided* that such harassment is non-lethal or is not physically injurious to the gray wolf and is reported within 7 days to the Service project leader for wolf reintroduction or agency representative designated by the Service.

(ii) Any livestock producers on their private land may take (including to kill or injure) a wolf in the act of killing, wounding, or biting livestock (cattle, sheep, horses, and mules or as defined in State and tribal wolf management plans as approved by the Service), *Provided* that such incidents are to be immediately reported within 24 hours to the Service project leader for wolf reintroduction or agency representative designated by the Service, and livestock freshly (less than 24 hours) wounded (torn flesh and bleeding) or killed by wolves must be evident. Service or other Service authorized agencies will confirm if livestock were wounded or killed by wolves. The taking of any wolf without such evidence may be referred to the appropriate authorities for prosecution.

(iii) Any livestock producer or permittee with livestock grazing allotments on public land may receive a written permit, valid for up to 45 days, from the Service or other agencies designated by the Service, to take (including to kill or injure) a wolf that is in the act of killing, wounding, or biting livestock (cattle, sheep, horses, and mules or as defined in State and tribal wolf management plans as approved by the Service), *Provided* that six or more breeding pairs of wolves have been documented in the experimental population area and the Service or other agencies authorized by the Service has confirmed that the livestock losses were caused by wolves and have completed agency efforts to resolve the problem. Such take must be reported immediately within 24 hours to the Service project leader for wolf reintroduction or agency representative designated by the Service. There must be evidence of freshly wounded or killed livestock by wolves. Service or other Service authorized agencies will investigate and determine if the livestock were wounded or killed by wolves. The taking of any wolf without such evidence may be referred to the appropriate authorities for prosecution.

(iv) Potentially affected States and tribes may capture and translocate wolves to other areas within an experimental population area as described in paragraph (i)(7), *Provided* the level of wolf predation is negatively impacting localized ungulate populations at an unacceptable level. Such translocations cannot inhibit wolf population recovery. The States and tribes will define such unacceptable impacts, how they would be measured, and identify other possible mitigation in their State or tribal wolf management plans. These plans must be approved by the Service before such movement of wolves may be conducted.

(v) The Service, or agencies authorized by the Service, may promptly remove (place in captivity or kill) any wolf the Service or agency authorized by the Service determines to present a threat to human life or safety.

(vi) Any person may harass or take (kill or injure) a wolf in self defense or in defense of others, *Provided* that such take is reported immediately (within 24 hours) to the Service reintroduction project leader or Service designated agent. The taking of a wolf without an immediate and direct threat to human life may be referred to the appropriate authorities for prosecution.

(vii) The Service or agencies designated by the Service may take wolves that are determined to be “problem” wolves. Problem wolves are defined as wolves that in a calendar year attack livestock (cattle, sheep, horses, and mules) or as defined by State and tribal wolf management plans approved by the Service or wolves that twice in a calendar year attack domestic animals (all domestic animals other than livestock). Authorized take includes, but is not limited to non-lethal measures such as: aversive conditioning, nonlethal control, and/or translocating wolves. Such taking may be done when five or fewer breeding pairs are established in a experimental population area. If the take results in a wolf mortality, then evidence that the mortality was nondeliberate, accidental, nonnegligent, and unavoidable must be provided. When six or more breeding pairs are established in the experimental population area, lethal control of problem wolves or permanent placement in captivity will be authorized but only after other methods to resolve livestock depredations have been exhausted. Depredations occurring on Federal lands or other public lands identified in State or tribal wolf management plans and prior to six breeding pairs becoming established in an experimental population area may result in capture and release of the female wolf with pups, and her pups at or near the site of capture prior to October 1. All wolves on private land, including female wolves with pups, may be relocated or moved to other areas within the experimental population area if continued depredation occurs. Wolves attacking domestic animals other than livestock, including pets on private land, two or more times in a calendar year will be relocated. All chronic problem wolves (wolves that depredate on domestic animals after being moved once for previous domestic animal depredations) will be removed from the wild (killed or placed in captivity). The following three criteria will be used in determining the status of problem wolves within the nonessential experimental population area:

(A) There must be evidence of wounded livestock or partial remains of a livestock carcass that clearly shows that the injury or death was caused by wolves. Such evidence is essential since wolves may feed on carrion which they found and did not kill. There must be reason to believe that additional livestock losses would occur if no control action is taken.

(B) There must be no evidence of artificial or intentional feeding of wolves. Improperly disposed of livestock carcasses in the area of depredation will be considered attractants. Livestock carrion or carcasses on public land, not being used as bait under an agency authorized control action, must be removed or otherwise disposed so that it will not attract wolves.

(C) On public lands, animal husbandry practices previously identified in existing approved allotment plans and annual operating plans for allotments must have been followed.

(viii) Any person may take a gray wolf found in an area defined in paragraph (i)(7), *Provided* that the take is incidental to an otherwise lawful activity, accidental, unavoidable, unintentional, not resulting from negligent conduct lacking reasonable due care, and due care was exercised to avoid taking a gray wolf. Such taking is to be reported within 24 hours to a Service or Service-designated authority. Take that does not conform with such provisions may be referred to the appropriate authorities for prosecution.

(ix) Service or other Federal, State, or tribal personnel may receive written authorization from the Service to take animals under special circumstances. Wolves may be live captured and translocated to resolve demonstrated conflicts with ungulate populations or with other species listed under the Act, or when they are found outside of the designated experimental population area. Take procedures in such instances would involve live capture and release to a remote area or placement in a captive facility, if the animal is clearly unfit to remain in the wild. Killing of wolves will be a last resort and is only authorized when live capture attempts have failed or there is clear endangerment to human life.

(x) Any person with a valid permit issued by the Service under §17.32 may take wolves in the wild in the experimental population area, pursuant to terms of the permit.

(xi) Any employee or agent of the Service or appropriate Federal, State, or tribal agency, who is designated in writing for such purposes by the Service, when acting in the course of official duties, may take a wolf from the wild within the experimental population area, if such action is for:

(A) Scientific purposes;

(B) To relocate wolves to avoid conflict with human activities;

(C) To relocate wolves within the experimental population areas to improve wolf survival and recovery prospects;

(D) To relocate wolves that have moved outside the experimental population area back into the experimental population area;

(E) To aid or euthanize sick, injured, or orphaned wolves;

(F) To salvage a dead specimen which may be used for scientific study; or

(G) To aid in law enforcement investigations involving wolves.

(xii) Any taking pursuant to this section must be reported immediately (within 24 hours) to the appropriate Service or Service-designated agency, which will determine the disposition of any live or dead specimens.

(4) Human access to areas with facilities where wolves are confined may be restricted at the discretion of Federal, State, and tribal land management agencies. When five or fewer breeding pairs are in an experimental population area, land-use restrictions may also be employed on an as-needed basis, at the discretion of Federal land management and natural resources agencies to control intrusive human disturbance around active wolf den sites. Such temporary restrictions on human access, when five or fewer breeding pairs are established in an experimental population area, may be required between April 1 and June 30, within 1 mile of active wolf den or rendezvous sites and would only apply to public lands or other such lands designated in State and tribal wolf management plans. When six or more breeding pairs are established in an experimental population area, no land-use restrictions may be employed outside of national parks or national wildlife refuges, unless wolf populations fail to maintain positive growth rates toward population recovery levels for 2 consecutive years. If such a situation arose, State and tribal agencies would identify, recommend, and implement corrective management actions within 1 year, possibly including appropriate land-use restrictions to promote growth of the wolf population.

(5) No person shall possess, sell, deliver, carry, transport, ship, import, or export by any means whatsoever, any wolf or part thereof from the experimental populations taken in violation of the regulations in paragraph (i) of this section or in violation of applicable State or tribal fish and wildlife laws or regulations or the Endangered Species Act.

(6) It is unlawful for any person to attempt to commit, solicit another to commit, or cause to be committed any offense defined in this section.

(7) The site for reintroduction is within the historic range of the species:

(i) The central Idaho area is shown on the following map. The boundaries of the nonessential experimental population area will be those portions of Idaho that are south of Interstate Highway 90 and west of Interstate 15, and those portions of Montana south of Interstate 90, Highway 93 and 12 from Missoula, Montana west of Interstate 15.

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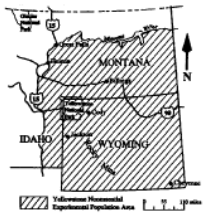
(ii) The Yellowstone Management Area is shown on the following map. The boundaries of the nonessential experimental population area will be that portion of Idaho that is east of Interstate Highway 15; that portion of Montana that is east of Interstate Highway 15 and south of the Missouri River from Great Falls, Montana, to the eastern Montana border; and all of Wyoming.



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(iii) All wolves found in the wild within the boundaries of this paragraph (i)(7) after the first releases will be considered nonessential experimental animals. In the conterminous United States, a wolf that is outside an experimental area (as defined in paragraph (i)(7) of this section) would be considered as endangered (or threatened if in Minnesota) unless it is marked or otherwise known to be an experimental animal; such a wolf may be captured for examination and genetic testing by the Service or Service-designated agency. Disposition of the captured animal may take any of the following courses:

(A) If the animal was not involved in conflicts with humans and is determined likely to be an experimental wolf, it will be returned to the reintroduction area.

(B) If the animal is determined likely to be an experimental wolf and was involved in conflicts with humans as identified in the management plan for the closest experimental area, it may be relocated, placed in captivity, or killed.

(C) If the animal is determined not likely to be an experimental animal, it will be managed according to any Service approved plans for that area or will be marked and released near its point of capture.

(D) If the animal is determined not to be a wild gray wolf or if the Service or agencies designated by the Service determine the animal shows physical or behavioral evidence of hybridization with other canids, such as domestic dogs or coyotes, or of being an animal raised in captivity, it will be returned to captivity or killed.

(8) The reintroduced wolves will be monitored during the life of the project, including by the use of radio telemetry and other remote sensing devices as appropriate. All released animals will be vaccinated against diseases and parasites prevalent in canids, as appropriate, prior to release and during subsequent handling. Any animal that is sick, injured, or otherwise in need of special care may be captured by authorized

personnel of the Service or Service-designated agencies and given appropriate care. Such an animal will be released back into its respective reintroduction area as soon as possible, unless physical or behavioral problems make it necessary to return the animal to captivity or euthanize it.

(9) The status of the experimental population will be reevaluated within the first 3 years, after the first year of releases of wolves, to determine future management needs and if further reintroductions are required. This review will take into account the reproductive success and movement patterns of the individuals released in the area, as well as the overall health and fate of the experimental wolves. Once recovery goals are met for downlisting or delisting the species, a rule will be proposed to address downlisting or delisting.

(10) The Service does not intend to reevaluate the “nonessential experimental” designation. The Service does not foresee any likely situation which would result in changing the nonessential experimental status until the gray wolf is recovered and delisted in the northern Rocky Mountains according to provisions outlined in the Act. However, if the wolf population does not demonstrate positive growth toward recovery goals for 2 consecutive years, the affected States and tribes, in cooperation with the Service, would, within 1 year, identify and initiate wolf management strategies, including appropriate public review and comment, to ensure continued wolf population growth toward recovery levels. All reintroduced wolves designated as nonessential experimental will be removed from the wild and the experimental population status and regulations revoked when (i) legal actions or lawsuits change the wolves status to endangered under the Act or (ii) within 90 days of the initial release date, naturally occurring wolves, consisting of two breeding pairs that for 2 consecutive years have each successfully raised two offspring, are discovered in the experimental population area. The naturally occurring wolves would be managed and protected as endangered species under the Act.

(j) California condor (*Gymnogyps californianus*). (1) The California condor (*Gymnogyps californianus*) population identified in paragraph (j)(8) of this section is a nonessential experimental population, and the release of such population will further the conservation of the species.

(2) You must not take any California condor in the wild in the experimental population area except as provided by this rule:

(i) Throughout the entire California condor experimental population area, you will not be in violation of the Endangered Species Act (Act) if you unavoidably and unintentionally take (including killing or injuring) a California condor, provided such take is non-negligent and incidental to a lawful activity, such as hunting, driving, or recreational activities, and you report the take as soon as possible as provided under paragraph 5 below.

(ii) [Reserved]

(3) If you have a valid permit issued by the Service under §17.32, you may take California condors in the wild in the experimental population area, pursuant to the terms of the permit.

(4) Any employee or agent of the Fish and Wildlife Service (Service), Bureau of Land Management or appropriate State wildlife agency, who is designated for such purposes, when acting in the course of official duties, may take a California condor from the wild in the experimental population area and vicinity if such action is necessary:

(i) For scientific purposes;

(ii) To relocate California condors within the experimental population area to improve condor survival, and to address conflicts with ongoing or proposed activities, or with private landowners, when removal is necessary to protect the condor, or is requested by an adversely affected landowner or land manager, or other adversely affected party. Adverse effects and requests for condor relocation will be documented, reported and resolved in as an expedient manner as appropriate to the specific situation to protect condors and avoid conflicts. Prior to any efforts to relocate condors, the Service will obtain permission from the appropriate landowner(s);

(iii) To relocate California condors that have moved outside the experimental population area, by returning the condor to the experimental population area or moving it to a captive breeding facility. All captures and relocations from outside the experimental population area will be coordinated with Service Cooperators, and conducted with the permission of the landowner(s) or appropriate land management agency(s).

(iv) To aid a sick, injured, or orphaned California condor;

(v) To salvage a dead specimen that may be useful for scientific study; or

(vi) To dispose of a dead specimen.

(5) Any taking pursuant to paragraphs (j)(2), (j)(4)(iv), (j)(4)(v), and (j)(4)(vi), of this section must be reported as soon as possible to the Field Supervisor, U.S. Fish and Wildlife Service, Ecological Services, Arizona Field Office, Phoenix, 2321 W. Royal Palm Road, Suite 103, Arizona (telephone 602/640–2720) who will determine the disposition of any live or dead specimens.

(6) You must not possess, sell, deliver, carry, transport, ship, import, or export by any means whatsoever, any California condor or part thereof from the experimental population taken in violation of this paragraph (j) or in violation of applicable State or Tribal laws or regulations or the Act.

(7) It is unlawful for you to attempt to commit, solicit another to commit, or cause to be committed, any offense defined in paragraphs (j)(2) and (j)(6) of this section.

(8) The designated experimental population area of the California condor includes portions of three states—Arizona, Nevada, and Utah. The southern boundary is Interstate Highway 40 in Arizona from its junction with Highway 191 west across Arizona to Kingman; the western boundary starts at Kingman, goes northwest on Highway 93 to Interstate Highway 15, continues northeasterly on Interstate Highway 15 in Nevada and Utah, to Interstate Highway 70 in Utah; where the northern boundary starts and goes across Utah to Highway 191; where the eastern boundary starts and goes south through Utah until Highway 191 meets Interstate Highway 40 in Arizona (See map at end of this paragraph (j)).

(i) All California condors released into the experimental population area, and their offspring, are to be marked and visually identifiable by colored and coded patagial wing markers.

(ii) The Service has designated the experimental population area to accommodate the potential future movements of a wild population of condors. All released condors and their progeny are expected to remain in the experimental area due to the geographic extent of the designation.

(9) The nonessential experimental population area includes the entire highway rights-of-way of the highways in paragraph (j)(8) of this section that constitute the perimeter boundary. All California condors found in the wild within these boundaries will comprise the experimental population.

(i) The experimental population is to be monitored during the reintroduction project. All California condors are to be given physical examinations before being released.

(ii) If there is any evidence that the condor is in poor health or diseased, it will not be released to the wild.

(iii) Any condor that displays signs of illness, is injured, or otherwise needs special care may be captured by authorized personnel of the Service, Bureau of Land Management, or appropriate State wildlife agency or their agents, and given the appropriate care. These condors are to be re-released into the reintroduction area as soon as possible, unless physical or behavioral problems make it necessary to keep them in captivity for an extended period of time, or permanently.

(10) The status of the reintroduction project is to receive an informal review on an annual basis and a formal evaluation within the first 5 years after the initial release, and every 5 years thereafter. This evaluation will include, but not be limited to: a review of management issues; compliance with agreements; assessment of available carrion; dependence of older condors on supplemental food sources; post release behavior; causes and rates of mortality; alternative release sites; project costs; public acceptance; and accomplishment of recovery tasks prescribed in California Condor Recovery Plan. The number of variables that could affect this reintroduction project make it difficult to develop criteria for success or failure after 5 years. However, if after 5 years the project is experiencing a 40 percent or greater mortality rate or released condors are not finding food on their own, serious consideration will be given to terminating the project.

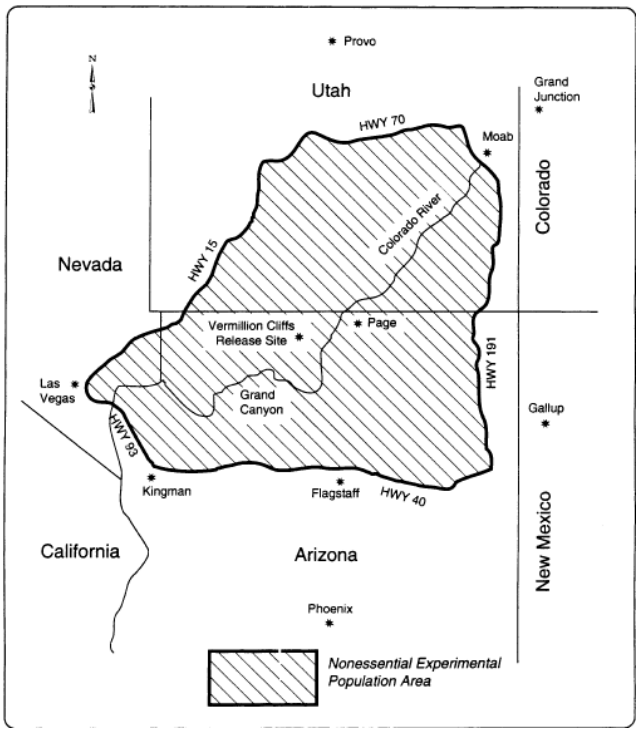
(11) The Service does not intend to pursue a change in the nonessential experimental population designation to experimental essential, threatened, or endangered, or modify the experimental population area boundaries without consulting with and obtaining the full cooperation of affected parties located within the experimental population area, the reintroduction program cooperators identified in the memorandum of understanding (MOU) for this program, and the cooperators identified in the agreement for this program.

(i) The Service does not intend to change the status of this nonessential population until the California condor is recovered and delisted in accordance with the Act or if the reintroduction is not successful and the rule is revoked. No designation of critical habitat will be made for nonessential populations (16 U.S.C. §1539 (j)(2)(C)(ii).

(ii) Legal actions or other circumstances may compel a change in this nonessential experimental population's legal status to essential, threatened, or endangered, or compel the Service to designate critical habitat for the California condors within the experimental population area defined in this rule. If this happens, all California condors will be removed from the area and this experimental population rule will be revoked, unless the parties to the MOU and agreement existing at that time agree that the birds should remain in the wild. Changes in the legal status and/or removal of this population of California condors will be made in compliance with any applicable Federal rulemaking and other procedures.

CALIFORNIA CONDOR

Nonessential Experimental
Population Area And Release Site



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(k) Mexican gray wolf (*Canis lupus baileyi*). (1) The Mexican gray wolf (Mexican wolf) populations reestablished in the Blue Range Wolf Recovery Area and in the White Sands Wolf Recovery Area, if used, within the Mexican Wolf Experimental Population Area, identified in paragraph (k)(9) of this section, are one nonessential experimental population. This nonessential experimental population will be managed according to the following provisions.

(2) Based on the best available information, the Service finds that reintroduction of an experimental

population of Mexican wolves into the subspecies' probable historic range will further the conservation of the Mexican wolf subspecies and of the gray wolf species; that the experimental population is not “essential,” under 50 CFR 17.81(c)(2); that the experimental population is wholly separate geographically from any other wild gray wolf population or individual wild gray wolves; that no wild Mexican wolves are known to exist in the experimental population area or anywhere else; and that future migration of wild Mexican wolves into the experimental population area is not possible.

(3) No person, agency, or organization may “take” [see definition in paragraph (k)(15) of this section] any wolf in the wild within the Mexican Wolf Experimental Population Area, except as provided in this rule. The Service may investigate each take of a Mexican wolf and may refer the take of a wolf contrary to this rule to the appropriate authorities for prosecution.

(i) Throughout the Mexican Wolf Experimental Population Area, you will not be in violation of the Act or this rule for “unavoidable and unintentional take” [see definition in paragraph (k)(15) of this section] of a wolf. Such take must be non-negligent and incidental to a legal activity, such as military training and testing, trapping, driving, or recreational activities. You must report the take within 24 hours to the Service's Mexican Wolf Recovery Coordinator or to a designated representative of the Service.

(ii) Throughout the Mexican Wolf Experimental Population Area, you may “harass” [see definition in paragraph (k)(15) of this section] wolves that are within 500 yards of people, buildings, facilities, pets, “livestock” [see definition in paragraph (k)(15) of this section], or other domestic animals in an opportunistic, noninjurious manner [see definition of “opportunistic, noninjurious harassment” in paragraph (k)(15) of this section] at any time—provided that wolves cannot be purposely attracted, tracked, searched out, or chased and then harassed. You must report harassment of wolves within 7 days to the Service's Mexican Wolf Recovery Coordinator or to a designated representative of the Service.

(iii) Throughout the Mexican Wolf Experimental Population Area, excluding areas within the national park system and national wildlife refuge system, no Federal agency or their contractors will be in violation of the Act or this rule for unavoidable or unintentional take of a wolf resulting from any action authorized by that Federal agency or by the Service, including, but not limited to, military training and testing. This provision does not exempt agencies and their contractors from complying with sections 7(a)(1) and 7(a)(4) of the Act, the latter of which requires a conference with the Service if they propose an action that is likely to jeopardize the continued existence of the Mexican wolf.

(iv) In areas within the national park system and national wildlife refuge system, Federal agencies must treat Mexican wolves as a threatened species for purposes of complying with section 7 of the Act.

(v) On private land anywhere within the Mexican Wolf Experimental Population Area, livestock owners or their agents may take (including kill or injure) any wolf actually “engaged in the act of killing, wounding, or biting livestock” [see definition in paragraph (k)(15) of this section]; provided that evidence of livestock freshly wounded or killed by wolves is present; and further provided that the take is reported to the Service's Mexican Wolf Recovery Coordinator or a designated representative of the Service within 24 hours.

(vi) On tribal reservation land anywhere within the Mexican Wolf Experimental Population Area, livestock owners or their agents may take (including kill or injure) any wolf actually engaged in the act of killing, wounding, or biting livestock; provided that evidence of livestock freshly wounded or killed by wolves is present; and further provided that the take is reported to the Service's Mexican Wolf Recovery Coordinator or a designated representative of the Service within 24 hours.

(vii) On “public lands” [see definition in paragraph (k)(15) of this section] allotted for grazing anywhere within the Mexican Wolf Experimental Population Area, including within the designated “wolf recovery areas” [see definition in paragraph (k)(15) of this section], livestock owners or their agents may be issued a permit under the Act to take wolves actually engaged in the act of killing, wounding, or biting “livestock” [see definition in paragraph (k)(15) of this section]. Before such a permit is issued, the following conditions must be met—livestock must be legally present on the grazing allotment; six or more “breeding pairs” [see definition in paragraph (k)(15) of this section] of Mexican wolves must be present in the Blue Range Wolf Recovery Area; previous loss or injury of livestock on the grazing allotment, caused by wolves, must be documented by the Service or our authorized agent; and agency efforts to resolve the problem must be completed. Permits issued under this provision will be valid for 45 days or less and will specify the maximum number of wolves you are allowed to take. If you take a wolf under this provision, evidence of livestock freshly wounded or killed by wolves must be present. You must report the take to the Service's Mexican Wolf Recovery Coordinator or a designated representative of the Service within 24 hours.

(viii) Throughout the Mexican Wolf Experimental Population Area, take of Mexican wolves by livestock guarding dogs, when used in the traditional manner to protect livestock on public, tribal, and private lands, is permitted. If you become aware that such take by your guard dog has occurred, you must report the take to the Service's Mexican Wolf Recovery Coordinator or a designated representative of the Service within 24 hours.

(ix) Personnel authorized by the Service may take any Mexican wolf in the nonessential experimental population in a manner consistent with a Service-approved management plan, special management measure, or a valid permit issued by the Service under §17.32. This may include, but is not limited to, capture and translocation of wolves that—prey on livestock; attack pets or domestic animals other than livestock on private or tribal land; “impact game populations in ways which may inhibit further wolf recovery” [see definition in paragraph (k)(15) of this section]; prey on members of the desert bighorn sheep herd found on the White Sands Missile Range and San Andres National Wildlife Refuge so long as the State of New Mexico lists it as a species to be protected; are considered “problem wolves” [see definition in paragraph (k)(15) of this section]; are a nuisance; endanger themselves by their presence in a military impact area; need aid or veterinary care; or are necessary for authorized scientific, research, or management purposes. Lethal methods of take may be used when reasonable attempts to capture wolves alive fail and when the Service determines that immediate removal of a particular wolf or wolves from the wild is necessary. Authorized personnel may use leg-hold traps and any other effective device or method for capturing or controlling wolves to carry out any measure that is a part of a Service-approved management plan, notwithstanding any conflicts in State or local law. The disposition of all wolves (live or dead) or their parts taken as part of a Service-authorized management activity must follow provisions in Service-approved management plans or interagency agreements or procedures approved by the Service on a case-by-case basis.

(x) As determined by the Service to be appropriate, the Service or any agent so authorized by the Service may capture, kill, subject to genetic testing, place in captivity, euthanize, or return to the wild (if found to be a pure Mexican wolf) any feral wolf-like animal, feral wolf hybrid, or feral dog found within the Mexican Wolf Experimental Population Area that shows physical or behavioral evidence of hybridization with other canids, such as domestic dogs or coyotes; being an animal raised in captivity, other than as part of a Service-approved wolf recovery program; or being socialized or habituated to humans.

(xi) The United States Department of Agriculture, Animal and Plant Health Inspection Service, Wildlife Services (WS) division will discontinue use of M–44's and choking-type snares in “occupied Mexican wolf

range" [see definition in paragraph (k)(15) of this section]. The WS division may restrict or modify other predator control activities pursuant to a cooperative management agreement or a conference between the Service and the WS division.

(xii) You may harass or take a Mexican wolf in self defense or defense of the lives of others, provided that you report the harassment or take within 24 hours to the Service's Mexican Wolf Recovery Coordinator or a designated representative of the Service. If the Service or an authorized agency determines that a wolf presents a threat to human life or safety, the Service or the authorized agency may kill it, capture and euthanize it, or place it in captivity.

(xiii) Intentional taking of any wolf in the Mexican Wolf Experimental Population Area, except as described above, is prohibited. The Service encourages those authorized to take wolves to use nonlethal means when practicable and appropriate.

(4) You must not possess, sell, deliver, carry, transport, ship, import, or export by any means whatsoever, any wolf or wolf part from the experimental population except as authorized in this rule or by a valid permit issued by the Service under §17.32. If you kill or injure a wolf or find a dead or injured wolf or wolf parts, you must not disturb them (unless instructed to do so by an authorized agent of the Service), you must minimize your disturbance of the area around them, and you must report the incident to the Service's Mexican Wolf Recovery Coordinator or a designated representative of the Service within 24 hours.

(5) You must not attempt to commit, solicit another to commit, or cause to be committed, any offense defined in this rule.

(6) No land use restrictions will be imposed on private lands for Mexican wolf recovery without the concurrence of the landowner.

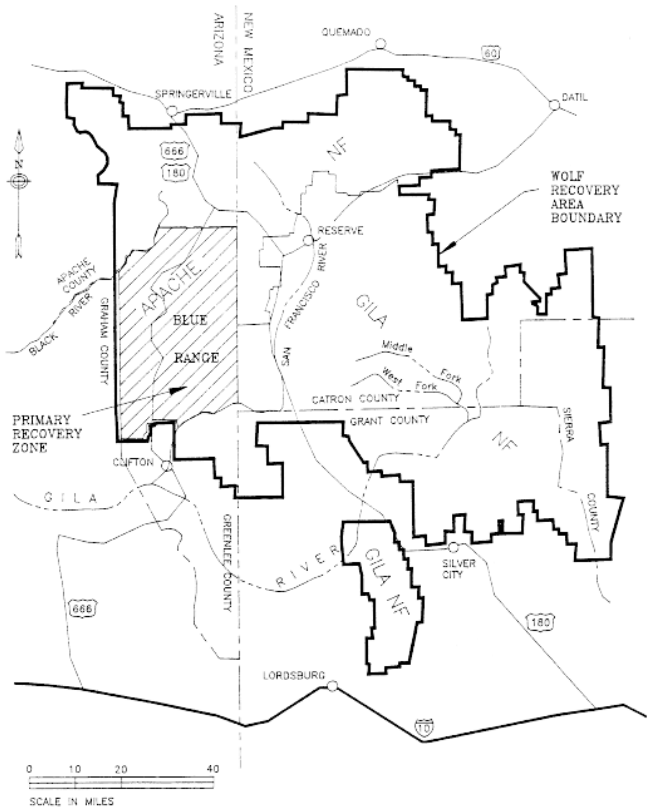
(7) No land use restrictions will be imposed on tribal reservation lands for Mexican wolf recovery without the concurrence of the tribal government.

(8) On public lands, the Service and cooperating agencies may temporarily restrict human access and "disturbance-causing land use activities" [see definition in paragraph (k)(15) of this section] within a 1-mile radius around release pens when wolves are in them, around active dens between March 1 and June 30, and around active wolf "rendezvous sites" [see definition in paragraph 17.84(k)(15) of this section] between June 1 and September 30, as necessary.

(9) The two designated wolf recovery areas and the experimental population area for Mexican wolves classified as a nonessential experimental population by this rule are described in the following subsections. Both designated wolf recovery areas are within the subspecies' probable historic range and are wholly separate geographically from the current range of any known Mexican wolves or other gray wolves..

(i) The Blue Range Wolf Recovery Area includes all of the Apache National Forest and all of the Gila National Forest in east-central Arizona and west-central New Mexico (Figure 1). Initial releases of captive-raised Mexican wolves will take place, generally as described in our Preferred Alternative in the FEIS on Mexican wolf reintroduction, within the Blue Range Wolf Recovery Area "primary recovery zone" [see definition in paragraph (k)(15) of this section]. This is the area within the Apache National Forest bounded on the north by the Apache-Greenlee County line; on the east by the Arizona-New Mexico state line; on the south by the San Francisco River (eastern half) and the southern boundary of the Apache National Forest (western half); and on the west by the Greenlee-Graham County line (San Carlos Apache Reservation boundary). The Service will allow the wolf population to expand into the Blue Range Wolf Recovery Area "secondary recovery zone" [see definition in paragraph (k)(15) of this section], which is the remainder of the Blue Range Wolf Recovery Area not in the primary recovery zone.

Fig. 1: Blue Range Wolf Recovery Area



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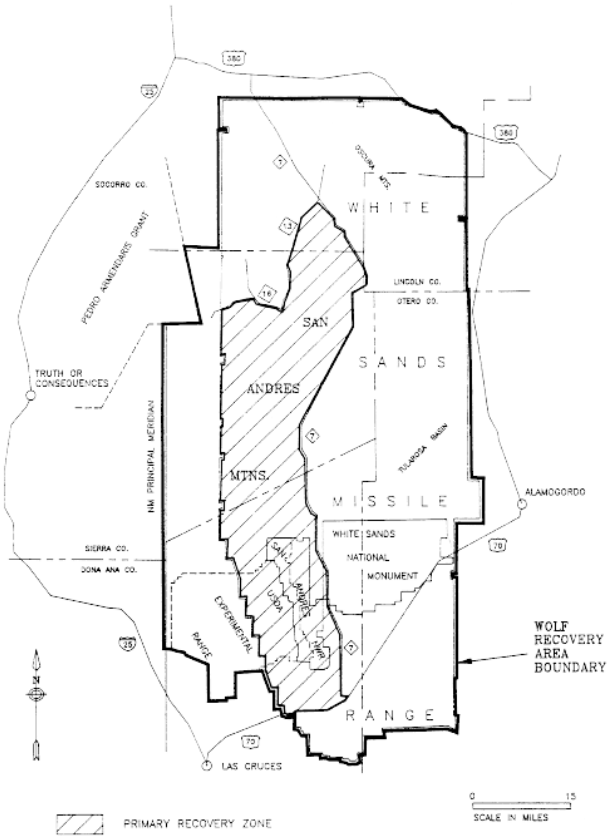
(ii) The White Sands Wolf Recovery Area in south-central New Mexico includes all of the White Sands Missile Range; the White Sands National Monument; the San Andres National Wildlife Refuge; and the area adjacent and to the west of the Missile Range bounded on the south by the southerly boundary of the USDA Jornada Experimental Range and the northern boundary of the New Mexico State University Animal Science Ranch, on the west by the New Mexico Principal Meridian, on the north by the Pedro Armendaris Grant boundary and the Sierra-Socorro County line, and on the east by the western boundary of the Missile Range (Figure 2). This is the back-up reintroduction area, to be used only if later determined to be both necessary and feasible in accordance with the Preferred Alternative as set forth in the FEIS on Mexican wolf reintroduction. If this area is used, initial releases of captive-raised wolves would take place within the White Sands Wolf Recovery Area primary recovery zone. This is the area within the White Sands Missile Range bounded on the north by the road from the former Cain Ranch Head quarters to Range Road 16, Range Road 16 to its intersection with Range Road 13, Range Road 13 to its intersection with Range Road 7; on the east by Range Road 7; on the south by Highway 70; and on the west by the Missile Range boundary. The Service would allow the wolf population to expand into the White Sands Wolf Recovery Area secondary recovery zone, which is the remainder of the White Sands Wolf Recovery Area not in the primary recovery zone.

Fig. 2: White Sands Wolf Recovery Area



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(iii) The boundaries of the Mexican Wolf Experimental Population Area are the portion of Arizona lying north of Interstate Highway 10 and south of Interstate Highway 40; the portion of New Mexico lying north of Interstate Highway 10 in the west, north of the New Mexico-Texas boundary in the east, and south of Interstate Highway 40; and the portion of Texas lying north of United States Highway 62/180 and south of the Texas-New Mexico boundary (Figure 3). The Service is not proposing wolf reestablishment throughout this area, but only within the Blue Range Wolf Recovery Area, and possibly later in the White Sands Wolf Recovery Area, respectively described in paragraphs (k)(9) (i) and (ii) of this section. If a member of the nonessential experimental population is captured inside the Mexican Wolf Experimental Population Area, but outside the designated wolf recovery areas, it will be re-released within the recovery area, put into the captive population, or otherwise managed according to provisions of a Service-approved management plan or action. If a wolf is found in the United States outside the boundaries of the Mexican Wolf Experimental Population Area (and not within any other wolf experimental population area) the Service will presume it to be of wild origin with full endangered status (or threatened in Minnesota) under the Act, unless evidence, such as a radio collar, identification mark, or physical or behavioral traits (see paragraph (k)(3)(x) of this section), establishes otherwise. If such evidence exists, the Service or an authorized agency will attempt to promptly capture the wolf and re-release it within the recovery area, put it into the captive population, or carry out any other management measure authorized by this rule or a Service-approved management plan. Such a wolf is otherwise not subject to this rule outside the designated Mexican Wolf Experimental Population Area.

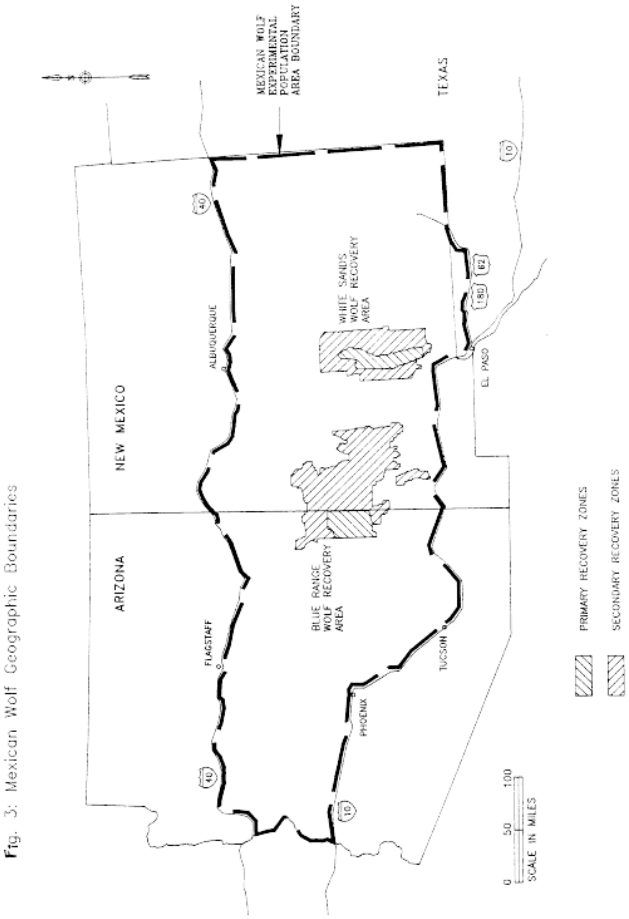

Fig. 3: Mexican Wolf Geographic Boundaries

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(10) If Mexican wolves of the experimental population occur on public lands outside the designated wolf recovery area(s), but within the Mexican Wolf Experimental Population Area, the Service or an authorized agency will attempt to capture any radio-collared lone wolf and any lone wolf or member of an established pack causing livestock “depredations” [see definition in paragraph (k)(15) of this section]. The agencies will not routinely capture and return pack members that make occasional forays onto public land outside the designated wolf recovery area(s) and uncollared lone wolves on public land. However, the Service will capture and return to a recovery area or to captivity packs from the nonessential experimental population that establish territories on public land wholly outside the designated wolf recovery area(s).

(11) If any wolves move onto private land outside the designated recovery area(s), but within the Mexican Wolf Experimental Population Area, the Service or an authorized agency will develop management actions in cooperation with the landowner including capture and removal of the wolf or wolves if requested by the landowner.

(12) If any wolves move onto tribal reservation land outside the designated recovery area(s), but within the Mexican Wolf Experimental Population Area, the Service or an authorized agency will develop management actions in cooperation with the tribal government including capture and removal of the wolf or wolves if requested by the tribal government.

(13) The Service will evaluate Mexican wolf reintroduction progress and prepare periodic progress reports, detailed annual reports, and full evaluations after 3 and 5 years that recommend continuation, modification, or termination of the reintroduction effort.

(14) The Service does not intend to change the “nonessential experimental” designation to “essential experimental,” “threatened,” or “endangered” and foresees no likely situation which would result in such changes. Critical habitat cannot be designated under the nonessential experimental classification, 16 U.S.C. 1539(j)(2)(C)(ii).

(15) *Definitions*. Key terms used in this rule have the following definitions.

Breeding pair means an adult male and an adult female wolf that have produced at least two pups during the previous breeding season that survived until December 31 of the year of their birth.

Depredation means the confirmed killing or wounding of lawfully present domestic livestock by one or more wolves. The Service, WS, or other Service-authorized agencies will confirm cases of wolf depredation on domestic livestock.

Disturbance-causing land use activity means any land use activity that the Service determines could adversely affect reproductive success, natural behavior, or survival of Mexican wolves. These activities may be temporarily restricted within a 1-mile radius of release pens, active dens, and rendezvous sites. Such activities may include, but are not limited to—timber or wood harvesting, management-ignited fire, mining or mine development, camping outside designated campgrounds, livestock drives, off-road vehicle use, hunting, and any other use or activity with the potential to disturb wolves. The following activities are specifically excluded from this definition—

(1) Legally permitted livestock grazing and use of water sources by livestock;

(2) Livestock drives if no reasonable alternative route or timing exists;

(3) Vehicle access over established roads to private property and to areas on public land where legally permitted activities are ongoing if no reasonable alternative route exists;

(4) Use of lands within the national park or national wildlife refuge systems as safety buffer zones for military activities;

(5) Prescribed natural fire except in the vicinity of release pens; and

(6) Any authorized, specific land use that was active and ongoing at the time wolves chose to locate a den or rendezvous site nearby.

Engaged in the act of killing, wounding, or biting livestock means to be engaged in the pursuit and grasping, biting, attacking, wounding, or feeding upon livestock that are alive. If wolves are observed feeding on a livestock carcass, you cannot assume that wolves killed the livestock because livestock can die from many causes and wolves will feed on carrion.

Harass means "intentional or negligent act or omission which creates the likelihood of injury to the wildlife by annoying it to such an extent as to significantly disrupt normal behavioral patterns which include, but are not limited to, breeding, feeding, or sheltering" (50 CFR 17.3). This experimental population rule permits only "opportunistic, noninjurious harassment" (see definition below).

Impact on game populations in ways which may inhibit further wolf recovery. The Service encourages states and tribes to define unacceptable impacts from wolf predation on game populations in Service-approved management plans. Until such time the term will mean the following—2 consecutive years with a cumulative 35 percent decrease in population or hunter harvest estimates for a particular species of ungulate in a game management unit or distinct herd segment compared to the pre-wolf 5-year average (unit or herd must contain average of greater than 100 animals). If wolf predation is shown to be a primary cause of ungulate population declines (greater than 50 percent of documented adult or young mortality), then wolves may be moved to reduce ungulate mortality rates and assist in herd recovery, but only in conjunction with application of other common, professionally acceptable, wildlife management techniques.

Livestock means cattle, sheep, horses, mules, and burros or other domestic animals defined as livestock in State and Tribal wolf management plans approved by the Service.

Occupied Mexican wolf range means an area of confirmed presence of resident breeding packs or pairs of wolves or area consistently used by at least one resident wolf over a period of at least one month. The Service must confirm or corroborate wolf presence. Exact delineation of the area will be described by:

(1) 5-mile (8 km) radius around all locations of wolves and wolf sign confirmed as described above (nonradio-monitored);

(2) 5-mile (8 km) radius around radio locations of resident wolves when fewer than 20 radio locations are available (for radio-monitored wolves only); or

(3) 3-mile (4.8 km) radius around the convex polygon developed from more than 20 radio locations of a pack, pair, or single wolf acquired over a period of at least 6 months (for radio-monitored wolves).

This definition applies only within the Mexican Wolf Experimental Population Area.

Opportunistic, noninjurious harassment (see "harass") means as the wolf presents itself (for example, the wolf travels onto and is observed on private land or near livestock). This is the only type of harassment permitted by this rule. You cannot track, attract, search out, or chase a wolf and then harass it. Any harassment must not cause bodily injury or death to the wolf. The basic intent of harassment permitted by this rule is to scare wolves away from the immediate area. It is limited to approaching wolves and discharging firearms or other projectile launching devices in proximity to but not in the direction of wolves; throwing objects in the general direction of but not at wolves; or making any loud noise in proximity to wolves.

Primary recovery zone means an area where the Service—

(1) Will release captive-raised Mexican wolves,

(2) May return and re-release previously released Mexican wolves,

(3) May release translocated wild-born Mexican wolves, and

(4) Will actively support recovery of the reintroduced population.

Problem wolves means wolves that—

(1) Have depredated lawfully present domestic livestock,

(2) Are members of a group or pack (including adults, yearlings, and young-of-the-year) that were directly involved in livestock depredations,

(3) Were fed by or are dependent upon adults involved with livestock depredations (because young animals will likely acquire the pack's livestock depredation habits),

(4) Have depredated domestic animals other than livestock on private or tribal lands, two times in an area within one year, or

(5) Are habituated to humans, human residences, or other facilities.

Public land means land under administration of Federal agencies including, but not limited to the National Park Service, Bureau of Land Management, Fish and Wildlife Service, Forest Service, Department of Energy, and Department of Defense; and State-owned lands within the boundary of a designated wolf recovery area. All State-owned lands within the boundary of the experimental population area, but outside designated wolf recovery areas, will be subject to the provisions of this rule that apply to private lands.

Rendezvous site means a gathering and activity area regularly used by a litter of young wolf pups after they have emerged from the den. Typically, the site is used for a period ranging from about one week to one month in the summer. Several sites may be used in succession.

Secondary recovery zone means an area adjacent to a primary recovery zone in which the Service allows

released wolves to disperse, where wolves captured in the wild for authorized management purposes may be translocated and released, and where managers will actively support recovery of the reintroduced population.

Take means“to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct” (16 U.S.C. 1532(19)). Also, see definitions of “harass”, “opportunistic, noninjurious harassment”, and “unavoidable and unintentional take.”

Unavoidable and unintentional take means accidental, unintentional take (see definition of “Take”) which occurs despite reasonable care, is incidental to an otherwise lawful activity, and is not done on purpose. Examples would be striking a wolf with an automobile and catching a wolf in a trap outside of known occupied wolf range. Taking a wolf with a trap, snare, or other type of capture device within occupied wolf range (except as authorized in paragraph (k)(3)(ix) and (x) of this section) will not be considered unavoidable, accidental, or unintentional take, unless due care was exercised to avoid taking a wolf. Taking a wolf by shooting will not be considered unavoidable, accidental, or unintentional take. Shooters have the responsibility to be sure of their targets.

Wolf recovery area means a designated area where managers will actively support reestablishment of Mexican wolf populations.

(l) Grizzly bear (*Ursus arctos*).

(1) *Where does this special rule apply?* The special rule in this paragraph (l) applies to the designated Bitterroot Grizzly Bear Experimental Population Area (Experimental Population Area), which is found within the species' historic range and is defined as follows:

The boundaries of the Experimental Population Area are delineated by U.S. 93 from its junction with the Bitterroot River near Missoula, Montana, to Challis, Idaho; Idaho 75 from Challis to Stanley, Idaho; Idaho 21 from Stanley to Lowman, Idaho; State Highway 17 from Lowman to Banks, Idaho; Idaho 55 from Banks to New Meadows, Idaho; U.S. 95 from New Meadows to Coeur d'Alene, Idaho; Interstate 90 from Coeur d'Alene, Idaho, to its junction with the Clark Fork River near St. Regis, Montana; the Clark Fork River from its junction with Interstate 90 near St. Regis to its confluence with the Bitterroot River near Missoula, Montana; and the Bitterroot River from its confluence with the Clark Fork River to its junction with U.S. Highway 93, near Missoula, Montana (See map at the end of this paragraph (l)).

(2) *What is the legal status of the grizzly bear?* (i) The grizzly bear is listed as “threatened” in §17.11 (h) and protected under this part. However, the grizzly bear population to which this paragraph (l) applies is considered a nonessential experimental population in accordance with section 10(j) of the Act.

(ii) We have determined that, as of December 18, 2000, no grizzly bear population exists in the Experimental Population Area. We find, in accordance with §17.81 (b), that the reintroduction of grizzly bears as a nonessential experimental population, as defined in §17.81 (b), will further the conservation of the species and will be consistent with provisions of section 10(j) of the Act, which requires that an experimental population be geographically separate from other nonexperimental populations of the same species. We also find, in accordance with §17.81 (c)(2), that the experimental population of grizzly bears in the Experimental Population Area is not essential to the survival of the species in the wild.

(iii) Grizzly bears within the Experimental Population Area and the Recovery Area will be accommodated through management provisions provided for in this paragraph (l) and through management plans and policies developed by the Citizen Management Committee (Committee; see paragraph (l)(6) of this section). After reintroduction, every grizzly bear found within the Experimental Population Area will be considered a member of the nonessential experimental population.

(iv) In the conterminous United States, a grizzly bear that is outside the Experimental Population Area identified in paragraph (l)(1) of this section will be considered as threatened.

(3) *Where will grizzly bears be released, and where will recovery be emphasized?* The Bitterroot Grizzly Bear Recovery Area identifies the area of recovery emphasis within the Experimental Population Area. The Recovery Area consists of the Selway-Bitterroot Wilderness and the Frank Church-River of No Return Wilderness (See map at the end of paragraph (l) of this section). All reintroductions will take place in the Selway-Bitterroot Wilderness unless it is later determined that reintroduction in the Frank Church-River of No Return Wilderness is appropriate. If, in the future, new wilderness areas are designated adjacent to the Recovery Area, the Committee may recommend to the Secretary their addition to the Recovery Area. The Secretary would have to amend this paragraph (l) to change the definition of the Recovery Area.

(4) *What activities are prohibited in the Experimental Population Area?* (i) You may not take (see definition in §10.12 of this subchapter) any grizzly bear in the Experimental Population Area, except as provided in this paragraph (l). We may refer unauthorized take of grizzly bears to the appropriate authorities for prosecution.

(ii) You may not possess, sell, deliver, carry, transport, ship, import, or export by any means whatsoever any grizzly bear or parts thereof that are taken from the Experimental Population Area or possessed in violation of the regulations in this paragraph (l) or in violation of applicable State wildlife conservation laws or regulations or the Act.

(iii) You may not attempt to commit, solicit another to commit, or cause to be committed, any offense defined in this paragraph (l).

(5) *What activities are allowed in the Experimental Population Area?* (i) For purposes of this paragraph (l), except for persons engaged in hunting or shooting activities, you will not be in violation of the Act for “unavoidable and unintentional take” (see definition in paragraph (l)(16) of this section) of grizzly bears within the Experimental Population Area when such take is incidental to a legal activity and is not a result of negligent conduct lacking reasonable due care, and when due care was exercised to avoid the taking. Any taking must be reported within 24 hours to appropriate authorities as listed in paragraph (l)(5)(iii) of this section. Persons lawfully engaged in hunting or shooting activities must correctly identify their target before shooting in order to avoid illegally shooting a grizzly bear. Shooting a grizzly bear as a result of mistaking it for another species is considered a lack of reasonable due care. The act of taking a grizzly bear that is wrongly identified as another species may be referred to appropriate authorities for prosecution.

(ii) Any person with a valid permit issued by us may take grizzly bears in the Experimental Population Area for scientific purposes, the enhancement of propagation or survival of the species, zoological exhibition, and other conservation purposes. Such permits must be consistent with the Act, with management plans adopted for the nonessential experimental population, and with applicable State wildlife conservation laws and regulations.

(iii) You may take grizzly bears in the Experimental Population Area in self-defense or in defense of the

lives of others. Such taking must be reported within 24 hours as to date, exact location, and circumstances to the Grizzly Bear Recovery Coordinator, University Hall, Room 309, University of Montana, Missoula, Montana 59812 (406–243–4903); or the Assistant Regional Director for Law Enforcement, Eastside Federal Complex, 911 NE 11th Avenue, Portland, Oregon 97232–4181 (503–231–6125); or the Assistant Regional Director for Law Enforcement, P.O. Box 25486, DFC, Denver, Colorado 80225 (303–236–7540); and either the Idaho Department of Fish and Game, P.O. Box 25, Boise Idaho 83707 (208–334–3700); or the Montana Department of Fish, Wildlife and Parks, 1420 E. Sixth Avenue, Helena, Montana 59620 (406–444–2535); and Nez Perce Tribal authorities (208–843–2253) (as appropriate).

(iv) Livestock owners may obtain a permit from the Service, and the Idaho Department of Fish and Game, the Montana Department of Fish, Wildlife and Parks, or appropriate Tribal authorities to harass (see definition in §17.3) grizzly bears found in the Experimental Population Area that are actually pursuing or killing livestock (to include permitting the use of livestock guard dogs around livestock to harass such grizzly bears). Prior to issuance of such a permit, authorized State, Federal, or Tribal officials must document pursuit or killing of livestock. All such harassment must be accomplished by an opportunistic, noninjurious method (see definition of “opportunistic, noninjurious harassment” in paragraph (l)(16) of this section) to the grizzly bear, and such harassment must be reported within 24 hours as to date, exact location, and circumstances to the authorities listed under paragraph (l)(5)(iii) of this section.

(v) Livestock owners may obtain a permit from the Service, and the Idaho Department of Fish and Game, the Montana Department of Fish, Wildlife and Parks or appropriate Tribal authorities to take grizzly bears on private lands found in the Experimental Population Area in a manner other than harassment as defined in this paragraph (l), in order to protect livestock actually pursued or being killed on private property. Prior to issuance of such a permit, authorized State, Federal, or Tribal officials must document pursuit or killing of livestock. Any response protocol established by the Committee must have been satisfied and efforts to capture depredating grizzly bears by Service or State or Tribal wildlife agency personnel must have proven unsuccessful. All such taking must be reported as to date, exact location, and circumstances within 24 hours to the authorities listed under paragraph (l)(5)(iii) of this section.

(vi) Any authorized employee or agent of the Service or appropriate State wildlife agency or Nez Perce Tribe who is lawfully designated for such purposes, when acting in the course of official duties, may take a grizzly bear from the wild in the Experimental Population Area if such action is necessary to:

(A) Aid a sick, injured, or orphaned grizzly bear;

(B) Dispose of a dead grizzly bear, or salvage a dead grizzly bear that may be useful for scientific study;

(C) Take a grizzly bear that constitutes a demonstrable but nonimmediate threat to human safety or that is responsible for depredations to lawfully present domestic animals or other personal property, if otherwise eliminating such depredation or loss of personal property has not been possible, and after eliminating such threat by live-capturing and releasing the grizzly bear unharmed in the area defined in paragraph (l)(2) of this section or other areas approved by the Committee has been demonstrated not to be possible;

(D) Move a grizzly bear for genetic management purposes;

(E) Relocate grizzly bears within the Experimental Population Area to improve grizzly bear survival and recovery prospects; or (F) Relocate a grizzly bear to avoid conflict with human activities. However, grizzly bears in the Experimental Population Area will not be disturbed unless they demonstrate a real and imminent threat to human safety, livestock, or bees. Unless the Committee determines otherwise, this rule provides that on private lands outside the national forest boundary in the Bitterroot Valley, Montana (exclusion area), any human/grizzly conflicts will be considered unacceptable. Grizzly bear occupancy will be discouraged in the exclusion area, and grizzly bears found there will be captured and returned to the Recovery Area, or placed in captivity, or destroyed, depending on the history of each bear. If a grizzly bear enters the exclusion area, State and Federal wildlife management agencies will attempt to capture it immediately and notify the public of its presence as soon as possible. The public will be kept updated until the bear is caught. Further, any grizzly bear that occupies inhabited human settlement areas on private land within the Experimental Population Area that, in the judgment of the management agencies or Committee, presents a clear threat to human safety or whose behavior indicates that it may become habituated to humans, will be relocated or destroyed by management agencies.

(6) *How will local citizens be involved in the management of the Bitterroot nonessential experimental grizzly bear population?* (i) The Secretary will establish a Citizen Management Committee for the Bitterroot grizzly bear experimental population and will authorize management implementation responsibility as described in paragraph (l)(9) of this section, in consultation with the Governors of Idaho and Montana. As soon as possible after the effective date of this rule, the Secretary will organize the Committee by requesting nominations of citizen members from the Governors of Idaho and Montana and the Nez Perce Tribe and nominations of agency members by represented agencies.

(ii) The Committee will be composed of 15 members serving 6-year terms. Appointments may initially be of lesser terms to ensure staggered replacement.

(A) Membership will consist of seven individuals appointed by the Secretary based upon the recommendations of the Governor of Idaho, five members appointed by the Secretary based upon the recommendations of the Governor of Montana, one member representing the Nez Perce Tribe appointed by the Secretary based on the recommendation of the Nez Perce Tribe, one member representing the Forest Service appointed by the Secretary of Agriculture, and one member representing the Fish and Wildlife Service appointed by the Secretary. Members recommended by the Governors of Idaho and Montana will be based on the recommendations of interested parties and will include at least one representative each from the appropriate State wildlife agencies. If either Governor or the Tribe fails to make recommendations within 60 days, the Secretary (or his/her designee) will accept recommendations from interested parties, and will make the appointments.

(B) The Committee will consist of a cross-section of interests reflecting a balance of viewpoints, and members are to be selected for their diversity of knowledge and experience in natural resource issues, and for their commitment to collaborative decision-making. In their recommendations to the Secretary, the Governors of Idaho and Montana will attach written documentation of the qualifications of those nominated relating to their knowledge of, and experience in, natural resource issues and their commitment to collaborative decision-making.

(C) Except for the representatives from Federal agencies, the Committee will be selected from communities within and adjacent to the Recovery and Experimental Population Areas.

(D) The Secretary will fill vacancies as they occur with the appropriate members based on the recommendation of the appropriate Governor, the Nez Perce Tribe, or agency.

(7) *Will independent scientific information be readily available to the Committee?* The Secretary will

appoint two scientific advisors to the Committee as nonvoting members to attend all meetings of the Committee and to provide scientific expertise to the Committee. These scientific advisors will not be employed by Federal agencies involved in grizzly bear recovery. The Secretary will contact the Wildlife Society Chapters in Idaho and Montana and the Universities of Idaho and Montana for nominations and will select one wildlife scientist representing each State and appoint them as advisors to the Committee.

(8) *What is the overall mission of the Committee, and how will it operate?* (i) The mission of the Committee is to facilitate recovery of the grizzly bear in the Bitterroot ecosystem by assisting in implementing the Bitterroot ecosystem chapter of the recovery plan (Bitterroot Ecosystem Recovery Plan Chapter—Supplement to the Grizzly Bear Recovery Plan, U.S. Fish and Wildlife Service, Missoula, Montana, 1996). The Committee will make recommendations to land and wildlife management agencies that it believes will lead to recovery of the grizzly bear. Decisions on, and implementation of, these recommendations are the responsibility of the land and wildlife management agencies.

(ii) The Committee will meet a minimum of two times per year. These meetings will be open to the public. Additionally, the committee will provide reasonable public notice of meetings, produce and provide written minutes of meetings to interested persons, and involve the public in its decision-making process. This public participation process will allow members of the public and/or special interest groups to have input to Committee decisions and management actions.

(9) *What authority will the Committee have, and what will be its primary tasks?* The Committee will have the authority and the responsibility to carry out the following functions:

(i) Developing a process for obtaining the best biological, social, and economic data. This process will include an explicit mechanism for soliciting peer-reviewed, scientific articles on grizzly bears and their management, and holding periodic public meetings not less than every 2 years, in which qualified scientists may submit comments to and be questioned by the Committee. The two scientific advisors will lead this process. The Committee will base its decisions upon the best scientific and commercial data available. All decisions of the Committee, including components of its management plans, must lead toward recovery of the grizzly bear in the Bitterroot ecosystem and minimize social and economic impacts to the extent practicable within the context of the existing recovery goals for the species.

(ii) Soliciting technical advice and guidance from outside experts. The scientific advisors will lead the development of an ongoing process to provide the Committee with the best scientific and commercial data available. The scientific advisors will provide this information in the form of peer-reviewed scientific articles on grizzly bears and their management, Committee meetings with presentations by scientific experts, and requests to State and Federal management agencies and the private sector for scientific expertise and advice.

(iii) Implementing the Bitterroot Ecosystem Chapter of the Grizzly Bear Recovery Plan consistent with this paragraph (l). The Committee will develop recommendations on existing management plans and policies of land and wildlife management agencies, as necessary, for the management of grizzly bears in the Experimental Population Area. The Committee will make recommendations to land and wildlife management agencies regarding changes to plans and policies, but the final decision on implementation of those recommendations will be made by those agencies. If Committee recommendations require significant changes to existing plans and policy, and the agencies tentatively agree to accept those recommendations, then the requirements of the National Environmental Policy Act may apply. Such management plans and policies will be in accordance with applicable State and Federal laws. The Committee will give full consideration to Service comments and opinions and those of the Forest Service, Idaho Department of Fish and Game, the Montana Department of Fish, Wildlife and Parks, and the Nez Perce Tribe.

(iv) Providing means by which the public may participate in, review, and comment on the decisions of the Committee. The Committee must thoroughly consider and respond to public input prior to making decisions.

(v) Developing its internal processes, where appropriate, such as governance, decision-making, quorum, terms of members, officers, meeting schedules and location, public notice of meetings, and minutes.

(vi) Requesting staff support from the Service, the Idaho Department of Fish and Game, Montana Department of Fish, Wildlife and Parks, Forest Service, other affected Federal agencies, and the Nez Perce Tribe, when necessary to perform administrative functions, and requesting reimbursement from us for non-Federal Committee members for costs associated with travel, lodging, and incidentals.

(vii) Reviewing existing grizzly bear standards and guidelines used by the Forest Service and other agencies and landowners. The Committee will perform an annual review of grizzly bear mortalities and the number and location of bear/human conflicts. This review will be the primary mechanism to assess the adequacy of existing management techniques and standards. If the Committee deems such standards and guidelines inadequate for recovery of grizzly bears, the Committee may recommend changes to the Forest Service and other agencies and landowners.

(viii) Developing grizzly bear guidance for proper camping and sanitation within the Experimental Population Area and making recommendations to land management agencies for adoption of such guidelines. Existing camping and sanitation procedures developed in other ecosystems with grizzly bears will serve as a basis for such guidelines.

(ix) Developing a protocol for responding to grizzly/human encounters, livestock depredations, damage to lawfully present property, and other grizzly/human conflicts within the Experimental Population Area. Any response protocol developed by the Committee will have to undergo public comment and be revised as appropriate based on comments received. Any conflicts or mortalities associated with these activities will result in review by the Committee to determine what the Committee may do to help prevent future conflicts or mortalities. The Committee will recommend, as necessary, policy changes on trail restrictions for human safety to appropriate wildlife and land management agencies.

(x) Recommending to the Service changes to recovery criteria, including mortality limits, population determinations, and other criteria for recovery as appropriate.

(xi) Reviewing all human-caused grizzly bear mortalities to determine whether new measures for avoiding future occurrences are required and make recommendations on such measures to appropriate land and wildlife management agencies. If grizzly bear mortalities occur as a result of black bear hunting, the Committee will work with the State Fish and Game Departments in both Idaho and Montana to develop solutions to minimize the effects on grizzly bears of black bear hunting.

(xii) Developing strategies to emphasize recovery inside the Recovery Area and to accommodate grizzly bears inside other areas of the Experimental Population Area.

(A) Grizzly bears may range outside the Recovery Area because grizzly bear habitat exists throughout the

Experimental Population Area. The Committee will not recommend that bears be disturbed or moved unless conflicts are both significant and cannot be corrected as determined by the Committee. This provision includes conflicts associated with livestock, for which the Committee will develop strategies to discourage grizzly bear occupancy in portions of the Experimental Population Area outside of the Recovery Area.

(B) Unless the Committee determines otherwise, this rule provides that private land outside the national forest boundary in the Bitterroot Valley, Montana (exclusion area), is an area where any human/grizzly conflicts will be considered unacceptable. Grizzly bear occupancy will be discouraged in these areas, and grizzly bears will be captured and returned to the Recovery Area. If a grizzly bear enters the exclusion area, State and Federal wildlife management agencies will attempt to capture it immediately and notify the public of its presence as soon as possible. The public will be kept updated until the bear is caught. Further, any grizzly bear that occupies the exclusion area or other inhabited human settlement areas on private land within the Experimental Population Area that, in the judgment of the management agencies or Committee, presents a clear threat to human safety or whose behavior indicates that it may become habituated to humans, will be relocated or destroyed by management agencies.

(xiii) Establishing standards for determining whether the experimental reintroduction has been successful and making recommendations on the inclusion of such standards in the Grizzly Bear Recovery Plan. These standards will be based on the best scientific and commercial information available and will reflect that, absent extraordinary circumstances, the success or failure of the program cannot be measured in fewer than 20 years. General guidelines for the standards by which failure will be measured include, but are not limited to, one or more of the following conditions:

(A) If, within the number of years established by the Committee following initial reintroduction, no relocated grizzly bear remains within the Experimental Population Area and the reasons for emigration or mortality cannot be identified and/or remedied; or

(B) If, within the number of years established by the Committee following initial reintroduction, no cubs of the year or yearlings exist and the relocated bears are not showing signs of successful reproduction as evidenced by no cubs of the year or yearlings.

(xiv) Developing procedures for the expeditious issuance of permits described in paragraphs (l)(5)(iv) and (l)(5)(v) of this section, and making recommendations on such procedures to appropriate agencies.

(xv) Developing 2-year work plans for the recovery effort for submittal to the Secretary pursuant to paragraph (l)(11)(i) of this section.

(xvi) Establishing, based on the best available science, a refined interim recovery goal for the Bitterroot Ecosystem Chapter of the Grizzly Bear Recovery Plan and a final recovery goal when sufficient information is available and after grizzly bears are reintroduced and occupy suitable habitats in the Experimental Population Area. As this information becomes available, the Committee may recommend the recovery goal to the Secretary along with procedures for determining how this goal will be measured. The recovery goal for the Bitterroot grizzly bear population will be consistent with the habitat available within the Recovery Area. Additional adjacent areas of public land can be considered for contribution of suitable habitat when setting the recovery goal if additional land is shown to be necessary by the best scientific and commercial data available. Any recommendations for revised recovery goals developed by the Committee will require public review and our approval as appropriate prior to revision of any recovery plan. Grizzly bears outside the Recovery Area and within the Experimental Population Area can contribute to meeting the recovery goal if their long-term occupancy in such habitats outside the Recovery Area is reasonably certain.

(10) *What agencies will be responsible for day-to-day management activities?* The Idaho Department of Fish and Game, the Montana Department of Fish, Wildlife and Parks, the Nez Perce Tribe, and the Forest Service, in coordination with us, will exercise day-to-day management responsibility within the Experimental Population Area in accordance with this paragaraph (l). The Service and these cooperating agencies will share management responsibility as per agreements with, and in consideration of, recommendations from the Committee.

(11) *How will progress of the Committee be monitored; and what process will be followed by the Secretary to resolve disputes over whether Committee actions are leading to recovery?* (i) The Secretary or our representative on the Committee will review the Committee's 2-year work plans (see paragraph (l)(9)(xv) of this section). If the Secretary determines, through our representative on the Committee, that the Committee's decisions, work plans, or the implementation of those plans are not leading to the recovery of the grizzly bear within the Experimental Population Area or are not in compliance with this paragraph (l), our representative will ask the Committee to determine whether such a decision, plan, or implementation of a plan is leading to recovery and is in compliance with this paragraph (l). The Secretary, who retains final responsibility and authority for implementation of the Act, will review the Committee's determination, as provided in paragraphs (l)(11)(ii) through (iv) of this section, and then make a final determination. Should the Secretary find that a decision, work plan, or implementation of a plan by the Committee is inadequate for recovery of the grizzly bear or is not in compliance with this paragraph (l), the Secretary may assume lead management responsibility.

(ii) The Service representative will consider Committee input before making any determination that Committee actions are not leading to recovery or are not in compliance with this paragraph (l). In the event that our representative on the Committee determines that the actions of the Committee are not leading to recovery of the Bitterroot grizzly bear population or are not in compliance with this paragraph (l), he or she will recommend to the Committee, based on the best scientific and commercial data available, alternative or corrective actions and provide 6 months for the Committee to accomplish those actions. Should the Committee reject these corrective actions, our representative will convene a Scientific Review Panel of three and will submit to the panel for review those Committee actions or decisions that he or she has determined are not leading to recovery or are not in compliance with this paragrpah (l). The Service representative will consider the views of all Committee members prior to convening a Scientific Review Panel.

(iii) Members of the Scientific Review Panel will be professional scientists who have had no involvement with the Committee and are not employed by Federal agencies responsible for grizzly bear recovery efforts. The Secretary will select one member of the panel, and the Governors of Idaho and Montana in consultation with the Universities of Idaho and Montana (respectively), will select one panel member each. The Scientific Review Panel will review Committee actions or decisions, solicit additional information if necessary and, using the best scientific and commercial data available, make timely recommendations to the Committee as to whether Committee actions will lead to recovery of the grizzly bear in the Bitterroot ecosystem and are in compliance with paragraph (l). Examples of Committee actions, decisions, or lack of actions that can be submitted to the Scientific Review Panel include, but are not limited to, the following: sufficiency of public involvement in Committee activities; decisions involving sanitation and outreach activities; management of nuisance bears; adequacy of recommendations to land and wildlife management agencies; adequacy of Committee actions in addressing issues such as excessive human-caused grizzly bear mortality; and other actions important to recovery of the grizzly bear in the Bitterroot ecosystem. Committee compliance with paragraph (l) provides the basis for the recommendations of the Scientific Review Panel.

(iv) If, after timely review, the Committee rejects the recommendations of the Scientific Review Panel, and our representative determines that Committee actions are not leading to recovery of the Bitterroot population, he or she will notify the Secretary. The Secretary will review the Panel's recommendations and determine the disposition of the Committee.

(A) If the Secretary determines that the Committee should maintain lead management responsibility, the Committee will continue to operate according to the provisions of this paragraph (l) until the recovery objectives under paragraph (l)(9)(xvi) of this section or the Bitterroot Ecosystem Chapter of the Recovery Plan have been met and the Secretary has completed delisting.

(B) If the Secretary decides to assume lead management responsibility, the Secretary will consult with the Governors of Idaho and Montana regarding that decision and further attempt to resolve the disagreement. If, after such consultation, the Secretary assumes lead management responsibility, the Secretary will publish a notice in the Federal Register explaining the rationale for the determination and notify the Governors of Idaho and Montana. The Committee will disband, and all requirements identified in this paragraph (l) regarding the Committee will be nullified.

(12) *How will the Bitterroot grizzly bear population be monitored?* The reintroduced population will be monitored closely by Federal and State agencies in cooperation with the Committee for the duration of the recovery process, generally by use of radio telemetry as appropriate.

(13) *How will success or failure of the project be evaluated?* The status of Bitterroot grizzly bear recovery will be reevaluated separately by the Committee and by the Secretary at 5-year intervals. This review will take into account the reproductive success of the grizzly bears released, human-caused mortality, movement patterns of individual bears, food habits, and overall health of the population and will recommend changes and improvements in the recovery program. Evaluating these parameters will assist in determining success or failure of the restoration.

(14) *What process will be followed if the Secretary determines the project has failed?* (i) If, based on the criteria established by the Committee, the Secretary, after consultation with the Committee, the Governors of Idaho and Montana, the Idaho Department of Fish and Game, the Montana Department of Fish, Wildlife and Parks, and the Nez Perce Tribe, determines that the reintroduction has failed to produce a self-sustaining population, this paragraph (l) will not be used to reintroduce additional bears. Any remaining bears will retain their experimental status.

(ii) Prior to declaring the experimental reintroduction a failure, we will investigate the probable causes of the failure. If the causes can be determined, and legal and reasonable remedial measures identified and implemented, we will consider continuing the recovery effort and maintaining the relocated population. If such reasonable measures cannot be identified and implemented, we will publish the results of our evaluation in the Federal Register in a proposed rulemaking to terminate the authority for additional experimental grizzly bear reintroductions in the Bitterroot ecosystem.

(15) *Will the legal status of grizzly bears in the Experimental Population Area change?* We do not intend to change the “nonessential experimental” designation to “essential experimental,” “threatened,” or “endangered” and foresee no likely situation that would result in such changes. Critical habitat cannot be designated under the nonessential experimental classification, 16 U.S.C. 1539(j)(2)(C)(ii).

(16) *What are the definitions of key terms used in the special rule in this paragraph (l)?* In addition to terms defined in §10.12 and 17.3 of this subchapter, the following terms apply to this paragraph (l):

Accommodate means allowing grizzly bears that move outside the Recovery Area onto public land in the Experimental Population Area to remain undisturbed unless they demonstrate a real and imminent threat to human safety or livestock.

Citizen Management Committee (Committee) means that Committee described in paragraph (l)(6) of this section.

Current range means the area inside or within 10 miles of the recovery zone line of currently occupied grizzly bear recovery zones or any area where there is a grizzly bear population, as defined in this paragraph (l)(16).

Exclusion area (Bitterroot Valley) means those private lands in Montana lying within the Bitterroot Experimental Population Area in the Bitterroot Valley outside the Bitterroot National Forest boundary south of U.S. Highway 12 to Lost Trail Pass and west of Highway 93.

Experimental Population Area (Bitterroot Grizzly Bear Experimental Population Area) means that area delineated in paragraph (l)(1) of this section within which management plans developed as part of the Committee described in paragraph (l)(9) of this section will be in effect. This area includes the Recovery Area. The Experimental Population Area is within the historic range of the grizzly bear, but geographically separate from the current range of the grizzly bear.

Geographically separate means separated by more than 10 miles. The term refers to “wholly separate geographically” in section 10(j)(2) of the Act. The Experimental Population Area and the recovery zone boundary of any existing grizzly bear population must be geographically separate.

Grizzly bear population is defined by verified evidence within the previous 6 years which consists of photos within the area, verified tracks, or sightings by reputable scientists or agency personnel of at least two different female grizzly bears with young or one female with different litters in 2 different years in an area geographically separate from other grizzly bear populations. Verifiable evidence of females with young, to be geographically separate, would have to occur greater than 10 miles from the nearest nonexperimental grizzly bear population recovery zone boundary.

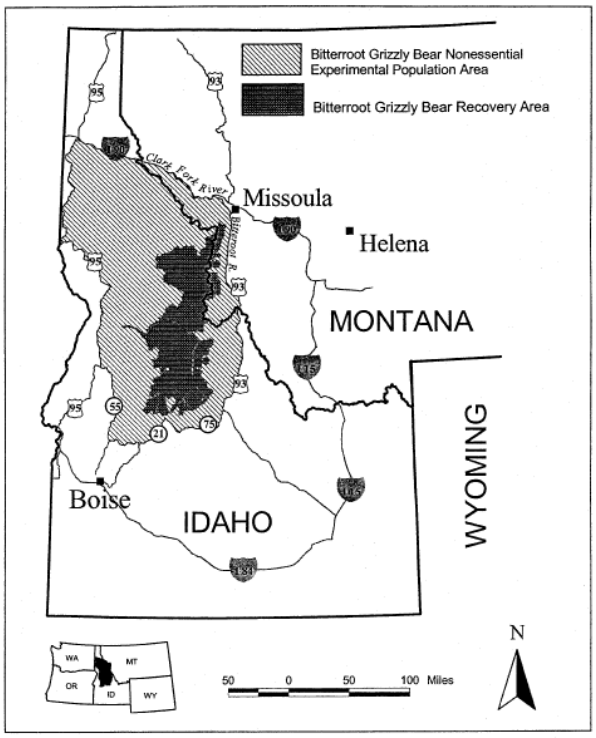
Opportunistic, noninjurious harassment means harassment (see definition of “harass” in §17.3) that occurs when the grizzly bear presents itself (for example, the bear travels onto and is observed on private land or near livestock). This paragraph (l) permits only this type of harassment. You cannot track, attract, search out, or chase a grizzly bear and then harass it. Any harassment must not cause bodily injury or death to the grizzly bear. The intent of harassment permitted by this definitioin is to scare bears away from the immediate area.

Recovery Area (Bitterroot Grizzly Bear Recovery Area) means the area of recovery emphasis within the Experimental Population Area, and is delineated in paragraph (l)(2) of this section. This area consists of the Selway-Bitterroot and Frank Church-River of No Return Wilderness areas. The Recovery Area is within the historic range of the species.

Recovery emphasis means grizzly bear management decisions in the Recovery Area will favor bear recovery

so that this area can serve as core habitat for survival, reproduction, and dispersal of the recovering population. Reintroduction of grizzly bears is planned to occur within the Selway-Bitterroot Wilderness portion of the Recovery Area unless it is later determined that reintroduction in the Frank Church-River of No Return Wilderness is appropriate.

Unavoidable and unintentional take means accidental, unintentional take (see definition of take in §10.12 of this subchapter) that occurs despite reasonable care, is incidental to an otherwise lawful activity, and is not done on purpose. An example would be striking a grizzly bear with an automobile. Taking a grizzly bear by shooting will not be considered unavoidable and unintentional take. Shooters have the responsibility to be sure of their targets.



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(m) Spotfin chub (=turquoise shiner) (*Cyprinella* (=*Hybopsis*) *monacha*), duskytail darter (*Etheostoma percnurum*), smoky madtom (*Noturus baileyi*).

(1) *Where are populations of these fishes designated as nonessential experimental populations (NEPs)?*

(i) The NEP area for these three fishes is within the species' probable historic ranges and is defined as follows: The Tellico River, between the backwaters of the Tellico Reservoir (approximately Tellico River mile 19 (30.4 kilometers) and Tellico River mile 33 (52.8 kilometers), near the Tellico Ranger Station, Monroe County, Tennessee.

(ii) None of the fishes named in paragraph (m) of this section are currently known to exist in the Tellico River or its tributaries. Based on the habitat requirements of these fishes, we do not expect them to become established outside the NEP area. However, if any individuals of any of the species move upstream or downstream or into tributaries outside the designated NEP area, we would presume that they came from the reintroduced populations. We would then amend paragraph (m)(1)(i) of this section and enlarge the boundaries of the NEP area to include the entire range of the expanded population.

(iii) We do not intend to change the NEP designations to “essential experimental,” “threatened,” or “endangered” within the NEP area. Additionally, we will not designate critical habitat for these NEPs, as provided by 16 U.S.C. 1539(j)(2)(C)(ii).

(2) *What activities are not allowed in the NEP area?*

(i) Except as expressly allowed in paragraph (m)(3) of this section, all the prohibitions of §17.31 (a) and (b) apply to the fishes identified in paragraph (m)(1) of this section.

(ii) Any manner of take not described under paragraph (m)(3) of this section is prohibited in the NEP area. We may refer unauthorized take of these species to the appropriate authorities for prosecution.

(iii) You may not possess, sell, deliver, carry, transport, ship, import, or export by any means whatsoever any of the identified fishes, or parts thereof, that are taken or possessed in violation of paragraph (m)(2) of this section or in violation of the applicable State fish and wildlife laws or regulations or the Act.

(iv) You may not attempt to commit, solicit another to commit, or cause to be committed any offense defined in paragraph (m)(2) of this section.

(3) *What take is allowed in the NEP area?* Take of this species that is incidental to an otherwise legal activity, such as recreation (e.g., fishing, boating, wading, trapping, or swimming), forestry, agriculture, and other activities that are in accordance with Federal, State, and local laws and regulations, is allowed.

(4) *How will the effectiveness of these reintroductions be monitored?* We will prepare periodic progress reports and fully evaluate these reintroduction efforts after 5 and 10 years to determine whether to continue or terminate the reintroduction efforts.

[49 FR 35954, Sept. 13, 1984 and 50 FR 30194, July 24, 1985, as amended at 51 FR 41797, Nov. 19, 1986; 52 FR 29780, Aug. 11, 1987; 53 FR 29337, Aug. 4, 1988; 53 FR 37580, Sept. 27, 1988; 54 FR 43969, Oct. 30, 1989; 56 FR 41488, Aug. 21, 1991; 58 FR 5657, Jan. 22, 1993; 58 FR 52031, Oct. 6, 1993; 59 FR 42711, 42714, Aug. 18, 1994; 59 FR 60279, Nov. 22, 1994; 60 FR 18947, Apr. 13, 1995; 61 FR 11332, Mar. 20, 1996; 61 FR 54057, Oct. 16, 1996; 62 FR 38939, July 21, 1997; 63 FR 1763, Jan. 12, 1998; 63 FR 52837, Oct. 1, 1998; 65 FR 60886, Oct. 13, 2000; 65 FR 69637, Nov. 17, 2000; 66 FR 33916, June 26, 2001; 67 FR 52427, Aug. 12, 2002; 68 FR 26508, May 16, 2003]

§ 17.85 Special rules—invertebrates.

top

(a) Cumberland bean (pearlymussel) (*Villosa trabalis*), tubercled blossom (pearlymussel) (*Epioblasma torulosa torulosa*), turgid blossom (pearlymussel) (*Epioblasma turgidula*), yellow blossom (pearlymussel) (*Epioblasma florentina florentina*), catspaw (purple cat's paw pearlymussel) (*Epioblasma obliquata obliquata*), clubshell (*Pleurobema clava*), Cumberlandian combshell (*Epioblasma brevidens*), Alabama lampmussel (*Lampsilis virescens*), winged mapleleaf (mussel) (*Quadrula fragosa*), Cumberland monkeyface (pearlymussel) (*Quadrula intermedia*), oyster mussel (*Epioblasma capsaeformis*), birdwing pearlymussel (*Conradilla caelata*), cracking pearlymussel (*Hemistena lata*), dromedary pearlymussel (*Dromus dromas*), fine-rayed pigtoe (*Fusconaia cuneolus*), shiny pigtoe (*Fusconaia cor*), Anthony's riversnail (*Athearnia anthonyi*).

(1) *Where are these mollusks designated as nonessential experimental populations (NEPs)?* (i) The NEP Area for these 17 mollusks is within the species' historic ranges, and is defined as follows: The free-flowing reach of the Tennessee River from the base of Wilson Dam downstream to the backwaters of Pickwick Reservoir (river mile (RM) 259.4 [414.0 km] to RM 246.0 [393.6 km] and includes the lower 5 RM (8 km) of all tributaries to this reach in Colbert and Lauderdale Counties, Alabama.

(ii) None of the identified species are known to exist in any of the tributaries to the free-flowing reach of the Tennessee River below Wilson Dam or from below the backwaters of Pickwick Reservoir, Colbert and Lauderdale Counties, Alabama. In the future, if any of the 17 mollusks are found upstream of the lower 5 RM (8 km) of these tributaries or downstream into Pickwick Reservoir, we will presume the animals came from the reintroduced NEP, and we will amend this rule and enlarge the boundaries of the NEP Area to include the entire range of the expanded population.

(iii) We do not intend to change the NEP designations to “essential experimental,” “threatened,” or “endangered” within the NEP Area. Additionally, we will not designate critical habitat for these NEPs, as provided by 16 U.S.C. 1539(j)(2)(C)(ii).

(2) *What activities are not allowed in the NEP Area?* (i) Except as expressly allowed in this rule, all the prohibitions of 17.31(a) and (b) apply to the mollusks identified in this special rule.

(ii) Any manner of take not described under paragraph (a)(3) of this section will not be allowed in the NEP Area. We may refer the unauthorized take of these species to the appropriate authorities for prosecution.

(iii) You may not possess, sell, deliver, carry, transport, ship, import, or export by any means whatsoever any of the identified 17 mollusks, or parts thereof, that are taken or possessed in violation of these regulations or in violation of the applicable State fish and wildlife laws or regulations or the Act.

(iv) You may not attempt to commit, solicit another to commit, or cause to be committed any offense defined in this paragraph (a).

(3) *What take is allowed in the NEP Area?* (i) Take of these species that is accidental and incidental to an otherwise lawful activity such as fishing, boating, commercial navigation, trapping, wading, or mussel harvesting, is allowed.

(ii) Any individual collecting or harvesting mussels must check their collection prior to leaving the immediate area and return any NEP mussels to the site where they were obtained.

(4) *How will the effectiveness of these reintroductions be monitored?* We will prepare periodic progress reports and fully evaluate these reintroduction efforts after 5 and 10 years to determine whether to continue or terminate the reintroduction efforts.

[66 FR 32263, June 14, 2001]

§ 17.86 Special rules—plants. [Reserved]

top

Subpart I—Interagency Cooperation

top

§ 17.94 Critical habitats.

top

(a) The areas listed in §17.95 (fish and wildlife) and §17.96 (plants) and referred to in the lists at §§17.11 and 17.12 have been determined by the Director to be Critical Habitat. All Federal agencies must insure that any action authorized, funded, or carried out by them is not likely to result in the destruction or adverse modification of the constituent elements essential to the conservation of the listed species within these defined Critical Habitats. (See part 402 for rules concerning this prohibition; see also part 424 for rules concerning the determination of Critical Habitat).

(b) The map provided by the Director does not, unless otherwise indicated, constitute the definition of the boundaries of a Critical Habitat. Such maps are provided for reference purposes to guide Federal agencies and other interested parties in locating the general boundaries of the Critical Habitat. Critical Habitats are described by reference to surveyable landmarks found on standard topographic maps of the area and to the States and county(ies) within which all or part of the Critical Habitat is located. Unless otherwise indicated within the Critical Habitat description, the State and county(ies) names are provided for informational purposes only.

(c) Critical Habitat management focuses only on the biological or physical constituent elements within the defined area of Critical Habitat that are essential to the conservation of the species. Those major constituent

elements that are known to require special management considerations or protection will be listed with the description of the Critical Habitat.

(d) The sequence of species within each list of Critical Habitats in §§17.95 and 17.96 will follow the sequences in the lists of Endangered and Threatened wildlife (§17.11) and plants (§17.12). Multiple entries for each species will be alphabetic by State.

[45 FR 13021, Feb. 27, 1980]

§ 17.95 Critical habitat—fish and wildlife.

top Link to an amendment published at 69 FR 53161, August 31, 2004.
Link to an amendment published at 69 FR 53231, August 31, 2004.

(a) *Mammals.*

Indiana Bat (Myotis sodalis)

Illinois. The Blackball Mine, La Salle County.

Indiana. Big Wyandotte Cave, Crawford County; Ray's Cave, Greene County.

Kentucky. Bat Cave, Carter County; Coach Cave, Edmonson County.

Missouri. Cave 021, Crawford County; Cave 009, Franklin County; Cave 017, Franklin County; Pilot Knob Mine, Iron County; Bat Cave, Shannon County; Cave 029, Washington County (numbers assigned by Division of Ecological Services, U.S. Fish and Wildlife Service, Region 6).

Tennessee. White Oak Blowhole Cave, Blount county.

West Virginia. Hellhole Cave, Pendleton County.

Note:

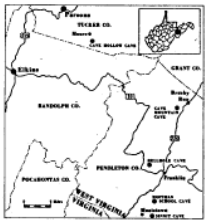
No map.

Virginia Big-eared Bat (Plecotus townsendii virginianus)

West Virginia. Cave Mountain Cave, Hellhole Cave, Hoffman School Cave, and Sinnit Cave, each in Pendleton County; Cave Hollow Cave, Tucker County.

Note:

Map follows:



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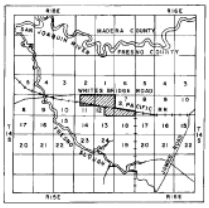
Fresno Kangaroo Rat (Dipodomys nitratoides exilis)

California. An area of land, water, and airspace in Fresno County, with the following components (Mt. Diablo Base Meridian): T14S R15E, E 1/2 NW 1/4 and NE 1/4 Sec. 11, that part of W 1/2 Sec. 12 north of the Southern Pacific Railroad, E 1/2 Sec. 12; T14S R16E, that part of Sec. 7 south of the Southern Pacific Railroad.

Within this area, the major constituent elements that are known to require special management considerations or protection are the hummocks and substrate that provide sites for burrow construction, and the natural alkali sink-open grassland vegetation that provides food and escape cover.

Note:

Map follows:



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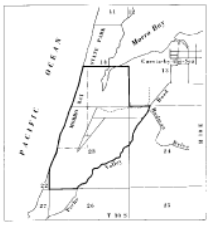
Morro Bay Kangaroo Rat (Dipodomys heermanni morroensis)

California. An area of land, water, and airspace in San Luis Obispo County, with the following components (Mt. Diablo Meridian): T30S R10E S 1/2 Sec. 14, those portions of Sec. 23–24 west of Pecho Valley Road.

Note:

Map follows:



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San Bernardino Kangaroo Rat (Dipodomys merriami parvus)

(1) Critical Habitat Units are depicted for San Bernardino and Riverside counties, California, on the maps below.

(2) Within these areas, the primary constituent elements for the San Bernardino kangaroo rat are those habitat components that are essential for the primary biological needs of the species. Based on our current knowledge of this species, the primary constituent elements include:

(i) Soil series consisting predominantly of sand, loamy sand, sandy loam, or loam;

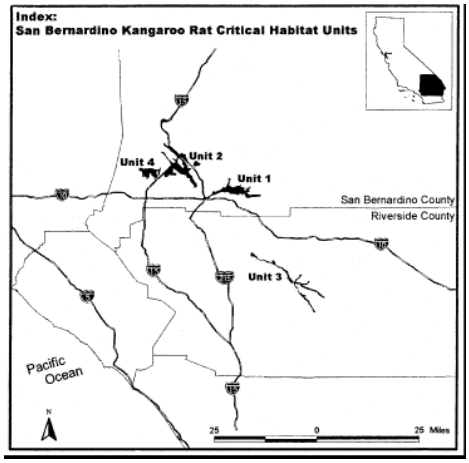
(ii) Alluvial sage scrub and associated vegetation, such as coastal sage scrub and chamise chaparral, with a moderately open canopy.

(iii) River, creek, stream, and wash channels; alluvial fans; floodplains; floodplain benches and terraces; and historic braided channels that are subject to dynamic geomorphological and hydrological processes typical of fluvial systems within the historical range of the San Bernardino kangaroo rat. These areas may include a mosaic of suitable and unsuitable soils and vegetation that either (A) occur at a scale smaller than the home range of the animal, or (B) form a series of core areas and linkages between them.

(iv) Upland areas proximal to floodplains with suitable habitat (e.g., floodplains that support the soils, vegetation, or geomorphological, hydrological and aeolian processes essential to this species). These areas are essential due to their geographic proximity to suitable habitat and the functions they serve during flooding events. These areas may include marginal habitats such as agricultural lands that are disced annually, out-of-production vineyards, margins of orchards, areas of active or inactive industrial or resource extraction activities, and urban/wildland interfaces.

(3) Existing features and structures, such as buildings, roads, railroads, airports, other paved areas, lawns, and other urban landscaped areas, do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Critical Habitat Map Units-Index Map Follows.



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(5) Unit 1: Santa Ana River and Wash, San Bernardino County, California

(i) From USGS 1:24,000 quadrangle maps Harrison Mountain (1980), Yucaipa (1988), Redlands (1980), and San Bernardino South (1980), California, lands in the Santa Ana Wash bounded by the following Universal Transverse Mercator (UTM) North American Datum 1927 (NAD27) coordinates (E, N): 482376, 3776863; 482520, 3777020; 482425, 3777267; 482403, 3777426; 482590, 3777477; 482714, 3777417; 482755, 3777375; 482793, 3777315; 482847, 3777277; 482942, 3777261; 482977, 3777201; 483050, 3777175; 483142, 3777191; 483238, 3777159; 483282, 3777128; 483285, 3777023; 483257, 3777023; 483250, 3776778; 483168, 3776763; 483088, 3776797; 483003, 3776807; 482965, 3776855; 482885, 3777007; 482841, 3777032; 482603, 3777036; 482552, 3776943; 482558, 3776715; 482692, 3776286; 482708, 3776201; 482717, 3775426; 482568, 3775426; 482435, 3775170; 482428, 3774953; 482444, 3774750; 482574, 3774556; 483247, 3774550; 483244, 3773978; 484038, 3773981; 484038, 3773734; 484746, 3773730; 484752, 3774140; 485628, 3774128; 485628, 3774419; 485787, 3774423; 485787, 3774391; 486009, 3774391; 486006, 3774492; 486073, 3774489; 486298, 3774362; 486270, 3774286; 486222, 3774267; 486149, 3774267; 486108, 3774238; 486079, 3774194; 486076, 3774149; 486197, 3774162; 486463, 3774356; 486717, 3774438; 486873, 3774496; 486994, 3774578; 487038, 3774715; 487044, 3774848; 487022, 3774953; 486994, 3774988; 487159, 3774981; 487194, 3774889; 487244, 3774788; 487191, 3774543; 487111, 3774435; 486879, 3774229; 486848, 3774127; 488140, 3773892; 488251, 3773835; 488324, 3773775; 488394, 3773680; 488467, 3773622; 488546, 3773578; 488649, 3773548; 488651, 3773549; 490156, 3773511; 490219, 3773476; 490121, 3773435; 490019, 3773387; 489994, 3773356; 489896, 3773311; 489778, 3773356; 489730, 3773403; 488597, 3773435; 488378, 3773286;

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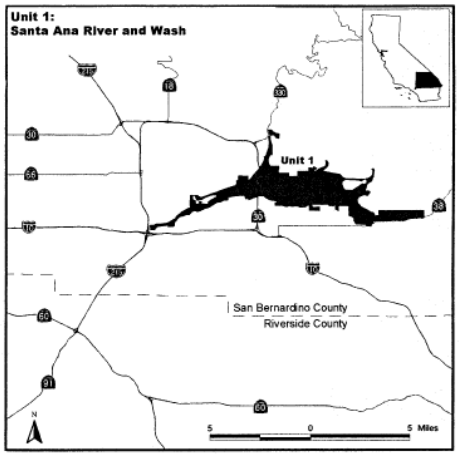
(ii) Map Unit 1 follows.



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(6) Unit 2: Lytle and Cajon Creeks, San Bernardino County, California

(i) From USGS 1:24,000 quadrangle maps San Bernardino South (1980), San Bernardino North (1988), Devore (1988), and Cajon (1988), California. Subunit 2a: Land bounded by the following UTM NAD27 coordinates (E,N): 459113, 3789417; 459304, 3789431; 459431, 3789507; 459586, 3789387; 459850, 3789253; 459989, 3788993; 460389, 3788590; 460586, 3788491; 460786, 3788294; 460888, 3788218;

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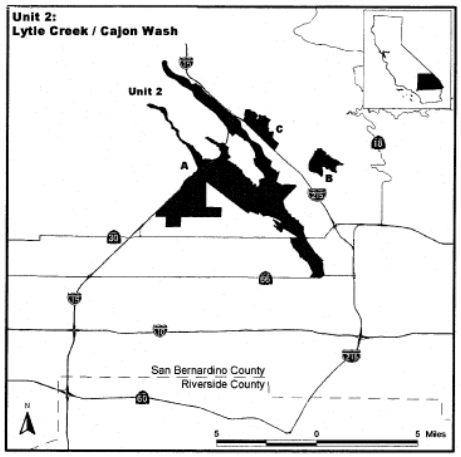
(ii) Subunit 2b: Land bounded by the following UTM NAD27 coordinates (E, N): 465795, 3784148; 464554, 3785327; 463276, 3786555; 463400, 3786918; 463325, 3786939; 463416, 3787252; 463416, 3787310; 463445, 3787388; 463849, 3787384; 463804, 3787314; 463869, 3787268; 463948, 3787260; 464187, 3787194; 464389, 3786988; 464385, 3786901; 464389, 3786815; 464286, 3786695; 464298, 3786638; 464381, 3786605; 464488, 3786695; 464541, 3786811; 464438, 3786856; 464541, 3786984; 464673, 3786984; 464682, 3786889; 465081, 3786885; 465090, 3786786; 465288, 3786691; 465490, 3786592; 465461, 3786559; 465283, 3786242; 465292, 3786102; 465263, 3785962; 465366, 3785891; 465292, 3785702; 465527, 3785558; 465572, 3785652; 465704, 3785586; 465626, 3785166; 465799, 3784939; 465997, 3784778; 466128, 3784700; 465906, 3784280; 465881, 3784300; returning to 465795, 3784148.

(iii) Subunit 2c: Land bounded by the following UTM NAD27 coordinates (E, N): 469615, 3782014; 469536, 3782017; 469485, 3782090; 469415, 3782141; 469345, 3782214; 469298, 3782239; 469263, 3782293; 469193, 3782309; 469117, 3782335; 469025, 3782325; 468942, 3782370; 468844, 3782401; 468812, 3782417; 468777, 3782376; 468625, 3782490; 468564, 3782643; 468548, 3783024; 468558, 3783141; 468609, 3783195; 468609, 3783281; 468723, 3783446; 468859, 3783671; 468910, 3783700; 468913, 3783789; 468936, 3783881; 469012, 3783894; 469021, 3784090; 469107, 3784087; 469209, 3784198; 469231, 3784284; 469599, 3784284; 469625, 3784173; 469901, 3783989; 469980, 3783881; 469898, 3783811; 469968, 3783735; 470009, 3783773; 470187, 3783732; 470209, 3783662; 470295, 3783646; 470295, 3783547; 470402, 3783528; 470498, 3783484; 470580, 3783436; 470669, 3783427; 470761, 3783354; 470783, 3783325; 470933, 3783252; 470980, 3783236; 471003, 3783192; 471164, 3783093; 471244, 3783068; 471330, 3783036; 471333, 3783001; 471218, 3782941; 471111, 3782966; 470907, 3782951; 470841, 3782925; 470803, 3782931; 470749, 3782855; 470720, 3782843; 470742, 3782763; 470701, 3782773; 470688, 3782709; 470730, 3782643; 470730, 3782624; 470695, 3782535; 470822, 3782439; 470749, 3782312; 470710, 3782325; 470669, 3782363; 470564, 3782414; 470469, 3782411; 470406, 3782439; 470352, 3782471; 470314, 3782500; 470263, 3782538; 470250, 3782652; 470196, 3782671; 470123, 3782649; 470056, 3782611; 469996, 3782614; 469907, 3782703; 469882, 3782744; 469872, 3782824; 469828, 3782833; 469694, 3782808; 469618, 3782776; 469653, 3782646; 469688, 3782420; 469685, 3782214; 469704, 3782144; returning to 469615, 3782014.

(iv) Map Unit 2 follows.



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(7) Unit 3: San Jacinto River and Bautista Creek, Riverside County, California.

(i) From USGS quadrangle maps Blackburn Canyon (1988), Hemet (1979), Lake Fulmor (1988), San Jacinto (1979), and Lakeview (1979), California, land bounded by the following UTM NAD27 coordinates (E, N): 493757, 3745718; 494287, 3745394; 494490, 3745290; 494890, 3745061; 495084, 3744988; 495258, 3744978; 495389, 3744997; 495671, 3745096; 495938, 3745159; 496074, 3745175; 496284, 3745159; 496494, 3745077; 496601, 3744994; 496605, 3744994; 496884, 3744791; 497078, 3744689; 497287, 3744588; 497468, 3744524; 498024, 3744420; 498386, 3744293; 498541, 3744264; 499291, 3743826; 499484, 3743673; 499767, 3743564; 499780, 3744556; 499840, 3744728; 499846, 3744832; 499980, 3744820; 500081, 3744769; 500189, 3744693; 500278, 3744610; 500389, 3744572; 500564, 3744359; 500722, 3744178; 500872, 3743931; 500811, 3743943; 500745, 3743924; 500716, 3743762; 500751, 3743600; 500840, 3743489; 500789, 3743419; 500735, 3743213; 501688, 3742689; 502148, 3742442; 502262, 3742356; 502402, 3742293; 502415, 3742359; 502551, 3742273; 502650, 3742257; 502824, 3742232; 502932, 3742194; 503088, 3742086; 503164, 3742197; 503285, 3742095; 503358, 3742061; 503443, 3742073; 503548, 3741994; 503650, 3741956; 503758, 3741788; 503875, 3741689; 503964, 3741651; 503967, 3741594; 504028, 3741553; 504155, 3741530; 504171, 3741489; 504218, 3741467; 504275, 3741407; 504282, 3741302; 504666, 3741140; 504742, 3741076; 504872, 3740959; 505126, 3740886; 505282, 3740778; 505475, 3740676; 505522, 3740595; 505529, 3740594; 505612, 3740521; 505701, 3740400; 505853, 3740261; 505888, 3740191; 505920, 3740064; 505710, 3739854; 505787, 3739594; 505891, 3739286; 505971, 3739076; 506107, 3739054; 506145, 3738987; 506250, 3738876; 506247, 3738686; 506285, 3738495; 506282, 3738310; 506514, 3737927; 506580, 3737886; 506695, 3737835; 506822, 3737844; 506911, 3737879; 506799, 3737711; 506841, 3737495; 508047, 3736292; 508323, 3736200; 508514, 3736285; 508812, 3736886; 508812, 3736889; 508911, 3737082; 509012, 3737187; 509114, 3737387; 509212, 3737489; 509311, 3737587; 509412, 3737692; 509635, 3737848; 509714, 3737889; 509835, 3737997; 509857, 3737968; 509927, 3737956; 510241, 3738168; 510194, 3738248; 510311, 3738292; 510416, 3738387; 510517, 3738686; 510613, 3738886; 510727, 3738991; 510724, 3739178; 510740, 3739264; 510886, 3739194; 510990, 3738991; 511175, 3738956; 511181, 3738873; 511155, 3738784; 511048, 3738768; 510917, 3738819; 510813, 3738829; 510749, 3738781; 510746, 3738552; 510695, 3738432; 510690, 3738316; 510295, 3737921; 510155, 3737632; 510098, 3737613; 510041, 3737603; 509978, 3737622; 509800, 3737629; 509755, 3737600; 509692, 3737540; 509673, 3737428; 509508, 3737394; 509479, 3737336; 509406, 3737301; 509339, 3737238; 509260, 3737152; 509266, 3737092; 509206, 3737003; 509193, 3736917; 509171, 3736870; 509104, 3736822; 509012, 3736806; 509009, 3736765; 508990, 3736717; 508895, 3736644; 508838, 3736549; 508793, 3736517; 508708, 3736314; 509292, 3736095; 509581, 3735990; 510067, 3735958; 510089, 3736000; 510038, 3736057; 510238, 3736000; 510333, 3735987; 510419, 3736063; 510492, 3736028; 510492, 3735971; 510584, 3735952; 510733, 3735863; 510743, 3735803; 511019, 3735758; 511140, 3735755; 511381, 3735479; 511629, 3735457; 511803, 3735485; 511898, 3735523; 512064, 3735543; 512238, 3735549; 512448, 3735520; 512616, 3735520; 512702, 3735504; 512832, 3735517; 512908, 3735584; 513013, 3735638; 513305, 3735685; 513410, 3735784; 513508, 3735892; 513613, 3735990; 513673, 3736133; 513692, 3736276; 513711, 3736384; 513813, 3736489; 513851, 3736568; 514004, 3736574; 514137, 3736520; 514188, 3736393; 514175, 3736305; 514118, 3736193; 514140, 3736101; 514115, 3736016; 513794, 3736016; 513689, 3735917; 513667, 3735828; 513616, 3735733; 513569, 3735673; 513505, 3735530; 513454, 3735485; 513369, 3735444; 513235, 3735406; 513162, 3735352; 513108, 3735273; 512978, 3735212; 512851, 3735231; 512626, 3735216; 512467, 3735231; 512410, 3735311; 512197, 3735327; 512095, 3735289; 511975, 3735219; 511822, 3735235; 511733, 3735266; 511600, 3735279; 511419, 3735343; 511359, 3735343; 511308, 3735320; 511311, 3735282; 511343, 3735216; 511435, 3735139; 511546, 3735076; 511638, 3735009; 511648, 3735009; 511800, 3734866; 511899, 3734806; 511933, 3734739; 512051, 3734692; 512184, 3734581; 512387, 3734390; 512578, 3734346; 512683, 3734285; 513191, 3734155; 513292, 3734082; 513448, 3734028; 513581, 3734028; 513664, 3733980; 513800, 3733888; 513905, 3733860; 514054, 3733844; 514188, 3733765; 514283, 3733688; 514362, 3733663; 514381, 3733580; 514483, 3733479; 514740, 3733476; 514800, 3733447; 515013,

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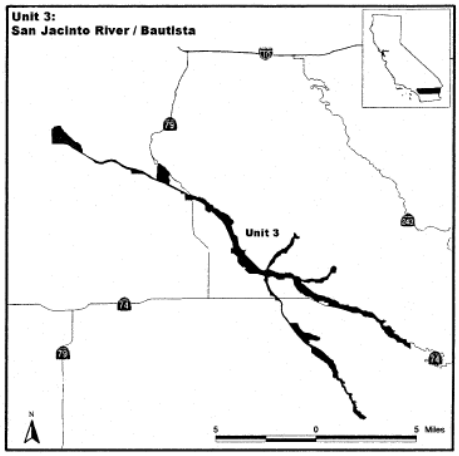
(ii) Map Unit 3 follows.



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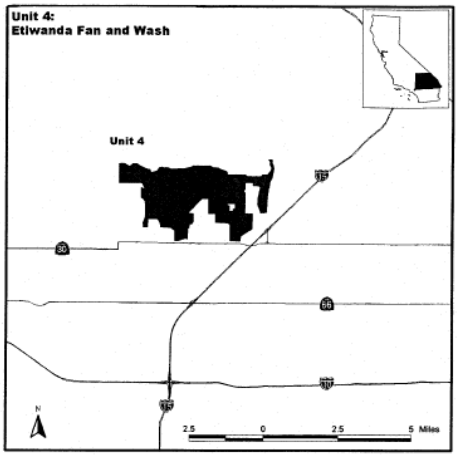
(8) Unit 4: Etiwanda Alluvial Fan and Wash, San Bernardino County, California

(i) From USGS 1:24,000 quadrangle maps Devore (1988) and Cucamonga Peak (1988), California, land bounded by the following UTM NAD27 coordinates (E, N): 449195, 3781261; 449359, 3781273; 449455, 3781238; 449550, 3781270; 449715, 3781238; 449785, 3781184; 450509, 3781194; 450909, 3781295; 451007, 3781362; 451963, 3781353; 452099, 3781270; 452376, 3781251; 452490, 3781191; 452788, 3781092; 452884, 3781003; 452896, 3780864; 453004, 3780860; 453881, 3780857; 453877, 3780816; 453988, 3780791; 454706, 3780785; 454757, 3780876; 455017, 3780886; 455217, 3781099; 455224, 3781251; 455150, 3781432; 455166, 3781559; 455081, 3781657; 455090, 3781683; 455281, 3781676; 455281, 3781483; 455344, 3781368; 455360, 3781273; 455376, 3781222; 455366, 3781022; 455347, 3781003; 455312, 3780905; 455290, 3780800; 455281, 3780689; 455189, 3780502; 455116, 3780140; 455087, 3780101; 455081, 3779987; 455052, 3779813; 455024, 3779419; 455008, 3778819; 454931, 3778809; 454865, 3778781; 454801, 3778797; 454757, 3778778; 454719, 3778797; 454671, 3778787; 454608, 3779009; 454516, 3779203; 454487, 3779282; 454509, 3779403; 454516, 3779600; 454652, 3780171; 454614, 3780232; 454446, 3780263; 454271, 3780270; 454271, 3780432; 453852, 3780435; 453861, 3780060; 453782, 3780003; 453855, 3779898; 453858, 3778752; 454255, 3778743; 454243, 3777913; 453611, 3777517; 453601, 3777263; 453046, 3777273; 453033, 3778181; 452957, 3778181; 452953, 3778244; 452242, 3778266; 452242, 3778746; 451860, 3778746; 451852, 3779565; 451509, 3779568; 450763, 3778822; 450763, 3778781; 451033, 3778755; 451029, 3778295; 450934, 3778171; 450807, 3778168; 450791, 3777962; 450734, 3777958; 450718, 3777362; 450629, 3777396; 450553, 3777396; 450229, 3777273; 450010, 3777273; 450017, 3777819; 449804, 3777987; 449244, 3778007; 449242, 3778120; 449194, 3778305; 449089, 3778466; 448581, 3778463; 448578, 3778016; 448334, 3778009; 448331, 3778174; 448299, 3778197; 448432, 3778555; 448445, 3778701; 448435, 3779371; 448385, 3779476; 448327, 3779549; 448210, 3779613; 448207, 3780168; 448397, 3780102; 448356, 3780232; 448283, 3780368; 448242, 3780419; 447032, 3780410; 447035, 3781480; 447305, 3781483; 447477, 3781394; 447562, 3781340; 447613, 3781340; 447737, 3781422; 447743, 3781467; 448007, 3781473; 448096, 3781384; 448489, 3781181; 448705, 3781156; 448731, 3780994; 448893, 3781003; 449074, 3781102; returning to 449195, 3781261; excluding land bounded by 452900, 3779300; 453300, 3779300; 453300, 3779000; 453200, 3779000; 453200, 3778900; 453000, 3778900; 453000, 3779200; 452900, 3779200; 452900, 3779300.

(ii) Map Unit 4 follows.



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Florida Manatee (Trichechus manatus)

Florida. Crystal River and its headwaters known as King's Bay, Citrus County; the Little Manatee River downstream from the U.S. Highway 301 bridge, Hillsborough County; the Manatee River downstream from the Lake Manatee Dam, Manatee County; the Myakka River downstream from Myakka River State Park, Sarasota and Charlotte Counties; the Peace River downstream from the Florida State Highway 760 bridge, De Soto and Charlotte Counties; Charlotte Harbor north of the Charlotte-Lee County line, Charlotte County; Caloosahatchee River downstream from the Florida State Highway 31 bridge, Lee County; all U.S. territorial waters adjoining the coast and islands of Lee County; all U.S. territorial waters adjoining the coast and islands and all connected bays, estuaries, and rivers from Gordon's Pass, near Naples, Collier County, southward to and including Whitewater Bay, Monroe County; all waters of Card, Barnes, Blackwater, Little Blackwater, Manatee, and Buttonwood Sounds between Key Largo, Monroe County, and the mainland of Dade County; Biscayne Bay, and all adjoining and connected lakes, rivers, canals, and waterways from the southern tip of Key Biscayne northward to and including Maule Lake, Dade County; all of Lake Worth,

from its northernmost point immediately south of the intersection of U.S. Highway 1 and Florida State Highway A1A southward to its southernmost point immediately north of the town of Boynton Beach, Palm Beach County; the Loxahatchee River and its headwaters, Martin and West Palm Beach Counties; that section of the intracoastal waterway from the town of Seawalls Point, Martin County to Jupiter Inlet, Palm Beach County; the entire inland section of water known as the Indian River, from its northernmost point immediately south of the intersection of U.S. Highway 1 and Florida State Highway 3, Volusia County, southward to its southernmost point near the town of Seawalls Point, Martin County, and the entire inland section of water known as the Banana River and all waterways between Indian and Banana Rivers, Brevard County; the St. Johns River including Lake George, and including Blue Springs and Silver Glen Springs from their points of origin to their confluences with the St. Johns River; that section of the Intracoastal Waterway from its confluences with the St. Marys River on the Georgia-Florida border to the Florida State Highway A1A bridge south of Coastal City, Nassau and Duval Counties.

Note:

No map.

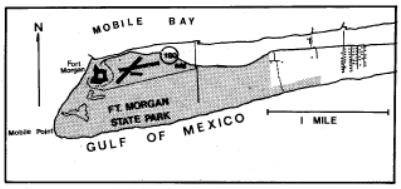
Alabama Beach Mouse (Peromyscus polionotus ammobates)

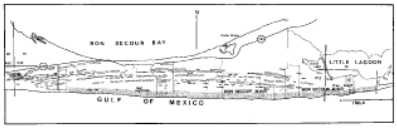
Alabama. Areas of land, water, and airspace in Baldwin County with the following components (St. Stephens Meridian): (1) That portion of the Fort Morgan Peninsula south of State Road 180 and west of 87° 59'35" W, except for that part each of Fort Morgan State Park and more than 152.5 meters (500 feet) inland from the mean high tide line of the Gulf of Mexico; (2) those portions of T9S R3E Sec. 30 and T9S R2E Sec. 25–28 and E15/16 Sec. 29 extending 152.5 meters (500 feet) inland from the mean high tide line of the Gulf of Mexico; (3) that portion of the Gulf Shores unit of the Gulf State Park south of State Road 182 in T9S R4E Sec. 14–15 and Sec. 21–23.

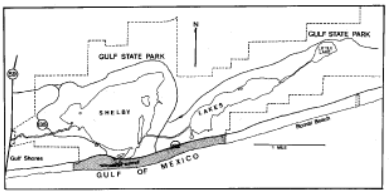
Within these areas the major constituent elements that are known to require special management consideratons or protection are dunes and interdunal areas, and associated grasses and shrubs that provide food and cover.

Note:

Maps follow:







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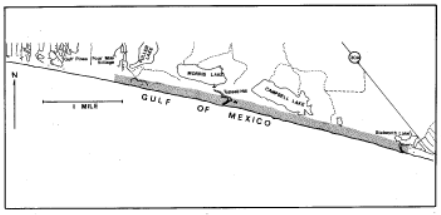
Choctawhatchee Beach Mouse (Peromyscus polionotus allophrys)

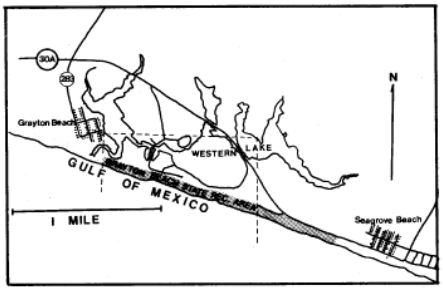
Florida. Areas of land, water, and airspace in Walton and Bay Counties with the following components (Tallahassee Meridian): (1) Those portions of T2S R21W E 5/8 Sec. 35, Sec. 36, T2S R20W S 1/4 Sec. 31, and T3S R20W W 1/8 Sec. 4, N 1/2 Sec. 5, and NE 1/4 Sec. 6 extending 152.5 meters (500 feet) inland from the mean high tide line of the Gulf of Mexico; (2) those portions of T3S R19W W 1/2 Sec. 15 and Sec. 16 extending 152.5 meters (500 feet) inland from the mean high tide line of the Gulf of Mexico; (3) those portions of the mainland part of the St. Andrews State Recreation Area in T4S R15W Sec. 21 and Sec. 22 extending 152.5 meters (500 feet) inland from the mean high tide line of the Gulf of Mexico; (4) those portions of Shell Island in T4S R15W Sec. 25–27 and Sec. 36, T4S R14W Sec. 31, and T5S R14W Sec. 4–6 extending 152.5 meters (500 feet) inland from the mean high tide line of Gulf of Mexico.

Within these areas the major constituent elements that are known to require special management considerations or protection are dunes and interdunal areas, and associated grasses and shrubs that provide food and cover.

Note:

Maps follow:





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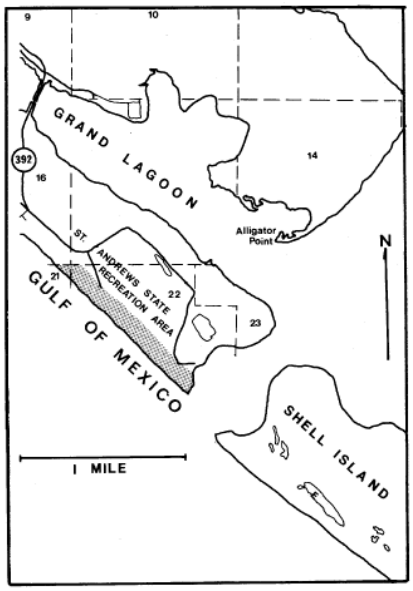

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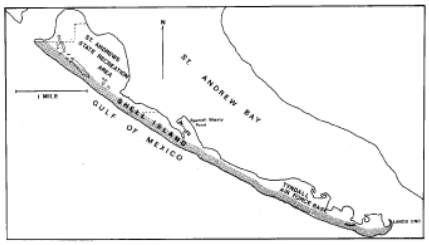

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Perdido Key Beach Mouse (Peromyscus polionotus trissyllepsis)

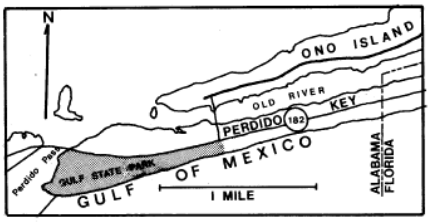
Alabama. An area of land, water, and airspace in Baldwin County with the following component (Tallahassee Meridian): That portion of the Perdido Key unit of the Gulf State Park south of State Road 182 in T9S R33W Sec. 2–3.

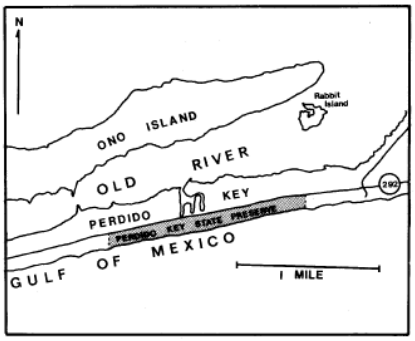
Florida. Areas of land, water, and airspace in Escambia County with the following components (Tallahassee Meridian): (1) That portion of the Perdido Key State Preserve south of State Road 292 in T3S R32W Sec. 32–33 and T4S R32W Sec. 5; (2) those portions of Perdido Key in T3S R31W Sec. 25–26 and Sec. 28–34, and in T3S R32W E 1/2 Sec. 36, and W 1/2 Sec. 36 south of the entrance road, parking lot, and Johnson Beach recreational facilities at the Gulf Islands National Seashore.

Within these areas the major constituent elements that are known to require special management considerations or protection are dunes and interdunal areas, and associated grasses and shrubs that provide food and cover.

Note:

Maps follow:





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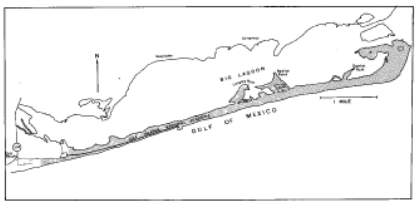

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Preble's Meadow Jumping Mouse (Zapus hudsonius preblei)

(1) Critical habitat units are depicted for Wyoming and Colorado. Maps and descriptions follow.

(2) Within these areas, the primary constituent elements for the Preble's include those habitat components essential for the biological needs of reproducing, rearing of young, foraging, sheltering, hibernation, dispersal, and genetic exchange. The primary constituent elements are found in and near riparian areas located within grassland, shrubland, forest, and mixed-vegetation types where dense herbaceous or woody vegetation occurs near the ground level, where available open water exists during their active season, and where there are ample upland habitats of sufficient width and quality for foraging, hibernation, and refugia from catastrophic flooding events. Primary constituent elements associated with the biological needs of dispersal and genetic exchange also are found in areas that provide connectivity or linkage between or within Preble's populations. The dynamic ecological processes that create and maintain Preble's habitat also are important primary constituent elements. Primary constituent elements include:

(i) A pattern of dense riparian vegetation consisting of grasses, forbs, and shrubs in areas along rivers and streams that provide open water through the Preble's active season;

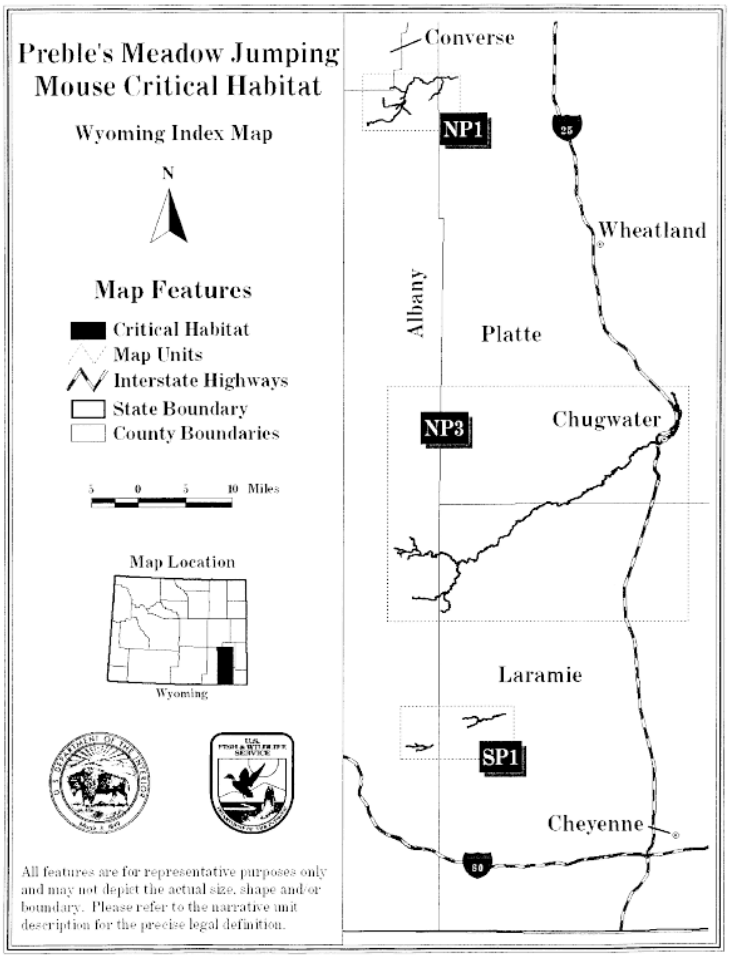
(ii) Adjacent floodplains and vegetated uplands with limited human disturbance (including hayed fields, grazed pasture, other agricultural lands that are not plowed or disced regularly, areas that have been restored after past aggregate extraction, areas supporting recreational trails, and urban/wildland interfaces);

(iii) Areas that provide connectivity between and within populations (These may include river and stream reaches with minimal vegetative cover or that are armored for erosion control; travelways beneath bridges, through culverts, and along canals and ditches; and other areas that have experienced substantial human alteration or disturbance.); and

(iv) Dynamic geomorphological and hydrological processes typical of systems within the range of the Preble's, *i.e.*, those processes that create and maintain river and stream channels, floodplains, and floodplain benches, and promote patterns of vegetation favorable to the Preble's.

(3) Existing features and structures within the boundaries of the mapped units, such as buildings, roads, parking lots, other paved areas, lawns, other urban and suburban landscaped areas, regularly plowed or disced agricultural areas, and other features not containing any of the primary constituent elements are not considered critical habitat.

(4) Critical Habitat Units—Wyoming Index Map Follows:



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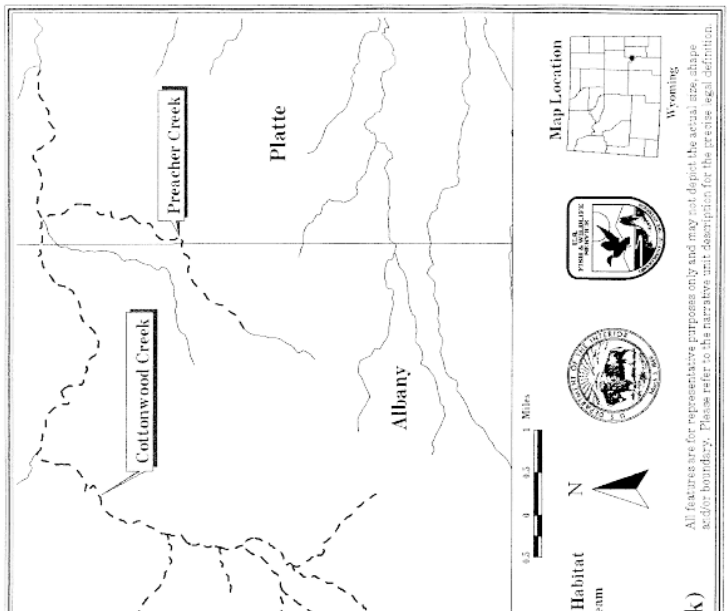
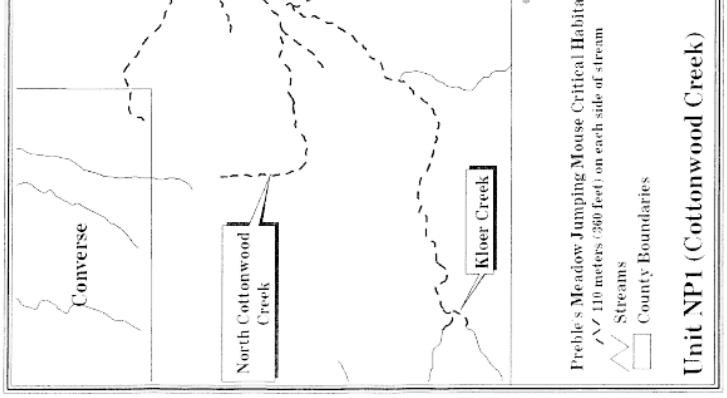
(5) Map Unit NP1: Cottonwood Creek, Albany, Platte, and Converse Counties, Wyoming.

(i) This unit consists of the following: 43.3 km (26.9 mi) of streams. Cottonwood Creek from the confluence with Held Creek at (42 18 44N 105 14 50W, T.27N., R.70W., Sec. 16) upstream to (42 14 34N 105 26 04W, T.26N., R.72W., Sec. 12). Includes Preacher Creek from its confluence with Cottonwood Creek at (42 18 43N 105 16 51W, T.27N., R.70W., Sec. 17) upstream to (42 16 39N 105 18 22W, T.27N., R.71W., Sec. 25). Also includes an unnamed tributary from its confluence with Cottonwood Creek at (42 17 24N 105 21 12W, T.27N., R.71W., south boundary Sec. 22) upstream to (42 17 39N 105 23 13W, T.27N., R.71W., Sec. 20). Also includes another unnamed tributary from its confluence with Cottonwood Creek at (42 16 51N 105 21 23W, T.27N., R.71W., Sec. 28) upstream to (42 16 46N 105 21 59W, T.27N., R.71W., Sec. 28). Also includes North Cottonwood Creek from its confluence with Cottonwood Creek at (42 16 39N 105 21 21W, T.27N., R.71W., Sec. 28) upstream to (42 16 51N 105 23 59W, T.27N., R.71W., Sec. 30). Which includes an unnamed tributary from its confluence with North Cottonwood Creek at (42 16 15N 105 21 57W, T.27N., R.71W., Sec. 33) upstream to (42 15 48N 105 22 30W, T.27N., R.71W., Sec. 32). Cottonwood Creek includes another unnamed tributary from its confluence with Cottonwood Creek at (42 16 08N 105 21 38W, T.27N., R.71W., Sec. 33) upstream to (42 15 17N 105 20 39W, T.26N., R.71W., Sec. 3). Also includes a final tributary, Kloer Creek from its confluence with Cottonwood Creek at (42 14 30N 105 25 49W, T.26N., R.72W., Sec. 12) upstream to (42 14 20N 105 26 00W, T.26N., R.72W., Sec. 12).

(ii) Map of Unit NP1 follows:





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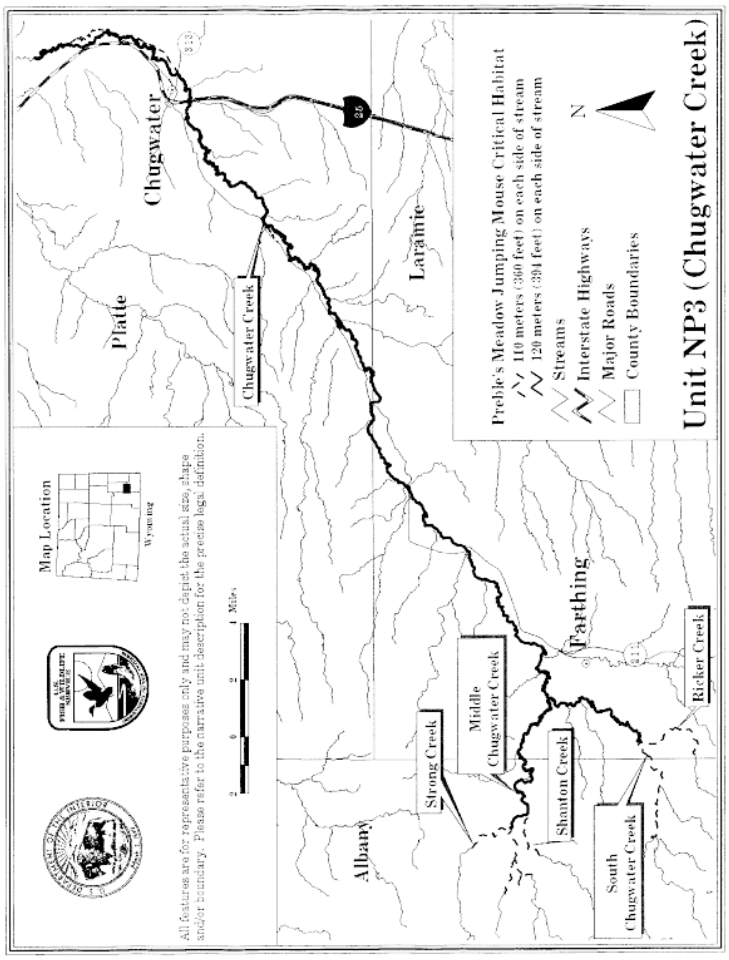
(6) Map Unit NP3: Chugwater Creek, Albany, Laramie, and Platte Counties, Wyoming.

(i) This unit consists of the following: 137.2 km (85.3 mi) of streams. Chugwater Creek from (41 49 41N 104 48 03W, T.21N., R.66W., north boundary Sec. 5) upstream to Farthing Reservoir (41 32 36N 105 14 31W, T.18N., R.70W., Sec. 9). Also includes Middle Chugwater Creek from its confluence with Chugwater Creek (41 33 55N 105 14 20W, T.18N., R.70W., Sec. 4) upstream to (41 34 23N 105 21 32W, T.19N., R.71W., Sec. 33). Which includes Shanton Creek from its confluence with Middle Chugwater Creek at (41 34 36N 105 19 05W, T.19N., R.71W., Sec. 35) upstream to (41 34 12N 105 20 41W, T.19N., R.71W., southwest corner Sec. 34). Also includes Strong Creek from its confluence with Middle Chugwater Creek at (41 35 04N 105 19 36W, T.19N., R.71W., Sec. 34) upstream to (41 36 16N 105 20 25W, T.19N., R.71W., Sec. 22). Middle Chugwater Creek also includes an unnamed tributary from its confluence with Middle Chugwater Creek at (41 34 56N 105 20 54W, T.19N., R.71W., Sec. 33) upstream to (41 35 14N 105 22 17W, T.19N., R.71W., Sec. 29). Finally, another unnamed tributary from its confluence with Middle Chugwater Creek at (41 34 43N 105 21 28W, T.19N., R.71W., Sec. 33) upstream to (41 34 47N 105 21 56W, T.19N., R.71W., Sec. 32). South Chugwater Creek is included in the unit from the ending point of Chugwater Creek at Farthing Reservoir (41 32 36N 105 14 31W, T.18N., R.70W., Sec. 9) upstream to (41 30 42N 105 20 03W, T.18N., R.71W., north boundary Sec. 27). Includes Ricker Creek from its confluence with South Chugwater Creek at (41 31 04N 105 16 07W, T.18N., R.70W., Sec. 19) upstream to (41 29 24N 105 16 39W, T.18N., R.70W., Sec. 31).

(ii) Map of Unit NP3 follows:



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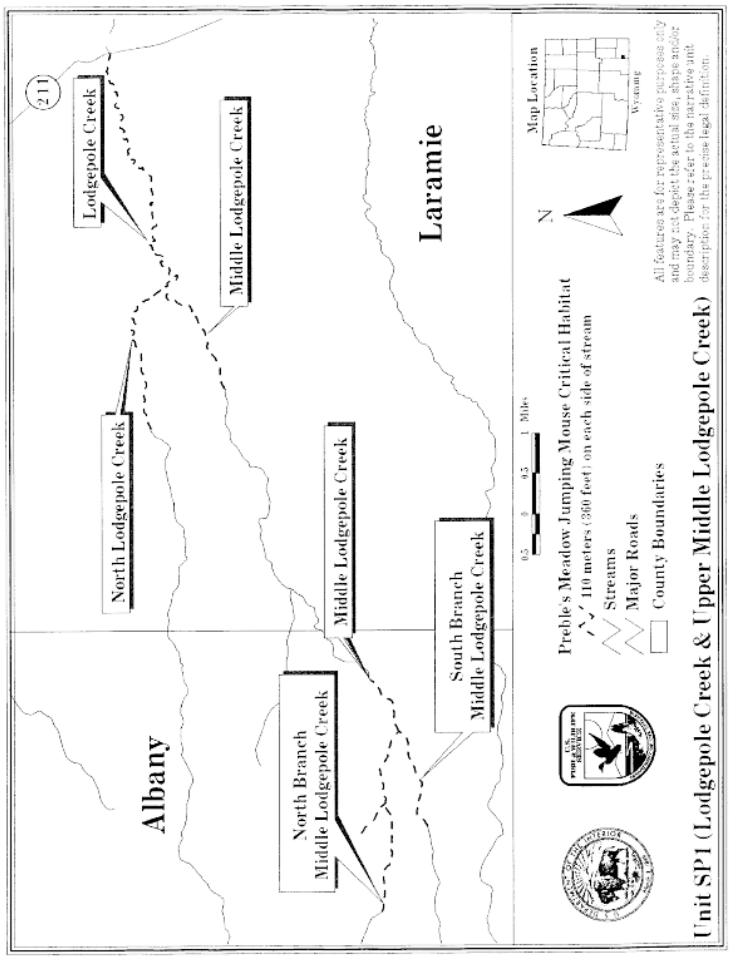
(7) Map Unit SP1: Lodgepole Creek and Upper Middle Lodgepole Creek, Laramie County, Wyoming.

(i) This unit consists of the following: 20.8 km (13 mi) of streams. Consists of 2 subunits. Subunit Lodgepole Creek, Laramie County, from Highway 211 (41 19 53N 105 08 35W, T.16N., R.69W., Sec. 29) upstream to the confluence of North Lodgepole Creek and Middle Lodgepole Creek (41 19 17N 105 11

52W, T16N., R.70W., Sec. 26). Includes North Lodgepole Creek from the aforementioned confluence (41 19 17N 105 11 52W, T16N., R.70W., Sec. 26) upstream to (41 19 27N 105 13 54W, T.16N., R.70W., west boundary Sec. 27). Also includes Middle Lodgepole Creek from (41 19 17N 105 11 52W, T16N., R.70W., Sec. 26) upstream to (41 18 40N 105 13 19W, T.16N., R.70W., Sec. 34).

(ii) Subunit Middle Lodgepole Creek, Albany County, includes Middle Lodgepole Creek from the boundary of Medicine Bow National Forest (41 17 06N 105 17 27W, T15N., R.71W., east boundary Sec. 12) upstream to the confluence of North Branch Middle Lodgepole Creek and Middle Branch Middle Lodgepole Creek (41 16 48N 105 18 10W, T.15N., R.71W., Sec. 12). Includes Middle Branch Middle Lodgepole Creek from the aforementioned confluence (41 16 48N 105 18 10W, T.15N., R.71W., Sec. 12) upstream to (41 16 29N 105 19 31W, T.15N., R.71W., Sec. 14). Also includes North Branch Middle Lodgepole Creek from the aforementioned confluence (41 16 48N 105 18 10W, T.15N., R.71W., Sec. 12) upstream to (41 16 58N 105 20 43W, T.15N., R.71W., Sec. 10). Which includes an unnamed tributary from its confluence with North Branch Middle Lodgepole Creek (41 16 56N 105 19 11W, T.15N., R.71W., Sec. 11) upstream to (41 17 12N 105 19 36W, T.15N., R.71W., Sec. 11).

(iii) Map of Unit SP1 follows:



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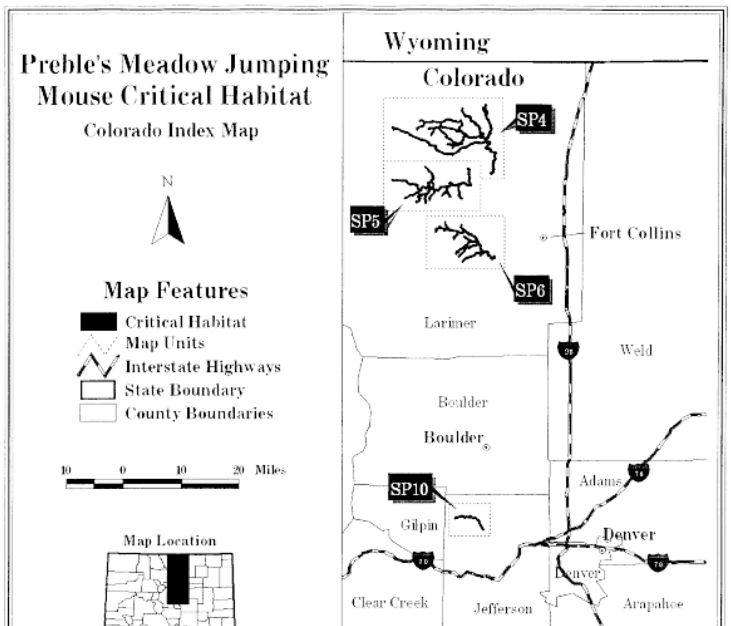
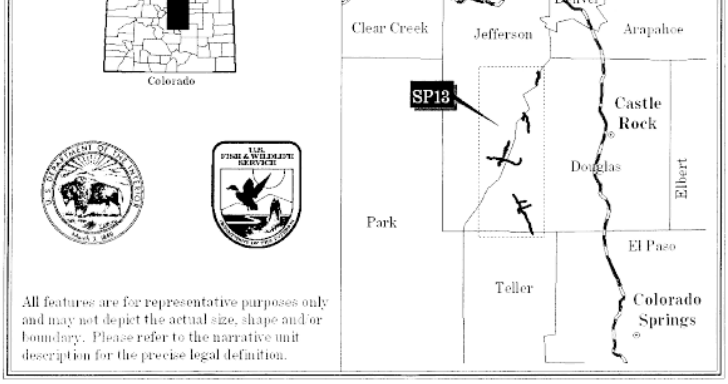
(8) Critical Habitat Units—Colorado Index Map Follows:





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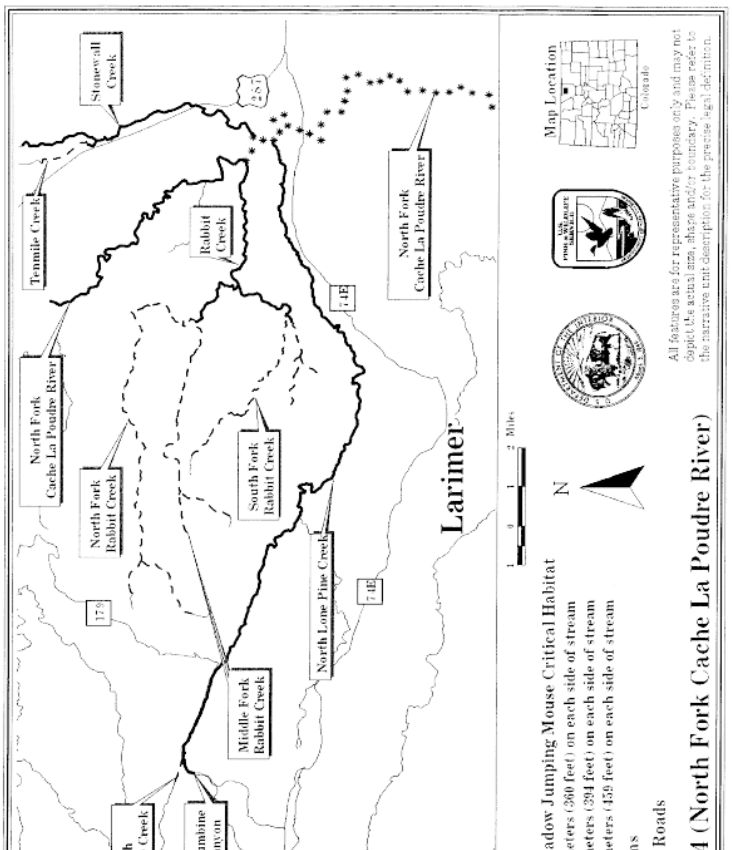
(9) Map Unit SP4: North Fork Cache La Poudre River, Larimer County, Colorado.

(i) This unit consists of the following: 141.8 km (88.1 mi) of streams and rivers. North Fork Cache La Poudre River from Seaman Reservoir (40 43 03N 105 14 27W, T.9N., R.70W., Sec. 28) upstream to Halligan Reservoir spillway (40 52 49N 105 20 12W, T.11N., R.71W., Sec. 34). On property owned by The Nature Conservancy in T.10N., R.71W., Sec. 2, 3, and 4, the outward boundary extends to 325 ft (99m) from the centerline of the North Fork Cache La Poudre River. Includes Lone Pine Creek from its confluence North Fork Cache La Poudre River (40 47 53N 105 15 28W, T.10N., R.70W., Sec. 32) upstream and continuing upstream into North Lone Pine Creek to 2,300m (7,600 ft) elevation (40 49 58N 105 34 09W, T.01N., R.73W., Sec. 15). Which includes Columbine Canyon from its confluence with North Lone Pine Creek (40 49 48N 105 33 28W, T.10N., R.73W., Sec. 15) upstream to 2,300m (7,600 ft) elevation (40 49 33N 105 33 54W, T.10N., R.73W., Sec. 15). Also includes Stonewall Creek from its confluence with North Fork Cache La Poudre River (40 48 19N 105 15 21W, T.10N., R.70W., Sec. 29) upstream to (40 53 26N 105 15 38W, T.11N., R.70W., Sec. 29). Which includes Tenmile Creek from its confluence with Stonewall Creek (40 51 48N 105 15 30W, T.10N., R.70W., Sec. 5) upstream to Red Mountain Road (40 53 00N 105 16 09W, T.11N., R.70W., Sec. 31). Also includes Rabbit Creek from its confluence with North Fork Cache La Poudre River (40 48 30N 105 16 04W, T.10N., R.70W., Sec. 30) upstream to the confluence with North and Middle Forks of Rabbit Creek (40 49 34N 105 20 47W, T.10N., R 71W., Sec. 21). Also includes South Fork Rabbit Creek from its confluence with Rabbit Creek (40 48 40N 105 19 43W, T.10N., R.71W., Sec. 27) upstream to (40 49 39N 105 24 40W, T.10N., R.72W., north boundary Sec. 24). Which includes an unnamed tributary from its confluence with South Fork Rabbit Creek (40 47 28N 105 20 45W, T.10N., R.71W., Sec. 33) upstream to (40 47 28N 105 23 10W, T.10N., R.71W., Sec. 31). Which in turn has an unnamed tributary from their confluence at (40 47 16N 105 21 45W, T.10N., R.71W., east boundary Sec. 32) upstream to (40 46 54N 105 22 14W, T.9N., R.71W., Sec. 5). Also includes Middle Fork Rabbit Creek from its confluence with Rabbit Creek (40 49 34N 105 20 47W, T.10N., R 71W., Sec. 21) upstream to 2,300m (7,600 ft) elevation (40 49 46N 105 26 55W, T.10N., R.72W., Sec. 15). This includes an unnamed tributary from its confluence with Middle Fork Rabbit Creek (40 49 56N 105 25 49W, T.10N., R.72W., Sec. 14) upstream to 2,300m (7,600 ft) elevation (40 48 48N 105 26 26W, T.10N., R.72W., Sec. 23). This unit includes North Fork Rabbit Creek from its confluence with Rabbit Creek (40 49 34N 105 20 47W, T.10N., R.71W., Sec. 21) upstream to 2,300m (7,600 ft) elevation (40 49 38N 105 29 17W, T.10N., R.72W., Sec. 17). Which includes an unnamed tributary from its confluence with North Fork Rabbit Creek (40 50 45N 105 27 23W, T.10N., R.72W., Sec. 9) upstream to 2,300m (7,600 ft) elevation (40 50 57N 105 28 42W, T.10N., R.72W., Sec. 9). On property owned by Al Johnson in T.10N., R.70W., Sec. 29, 30, 31, and 32, the outward boundary extends to 325 ft (99m) from the centerline of the North Fork Cache La Poudre River, Rabbit Creek, and Lone Pine Creek.

(ii) Map of Unit SP4 follows:



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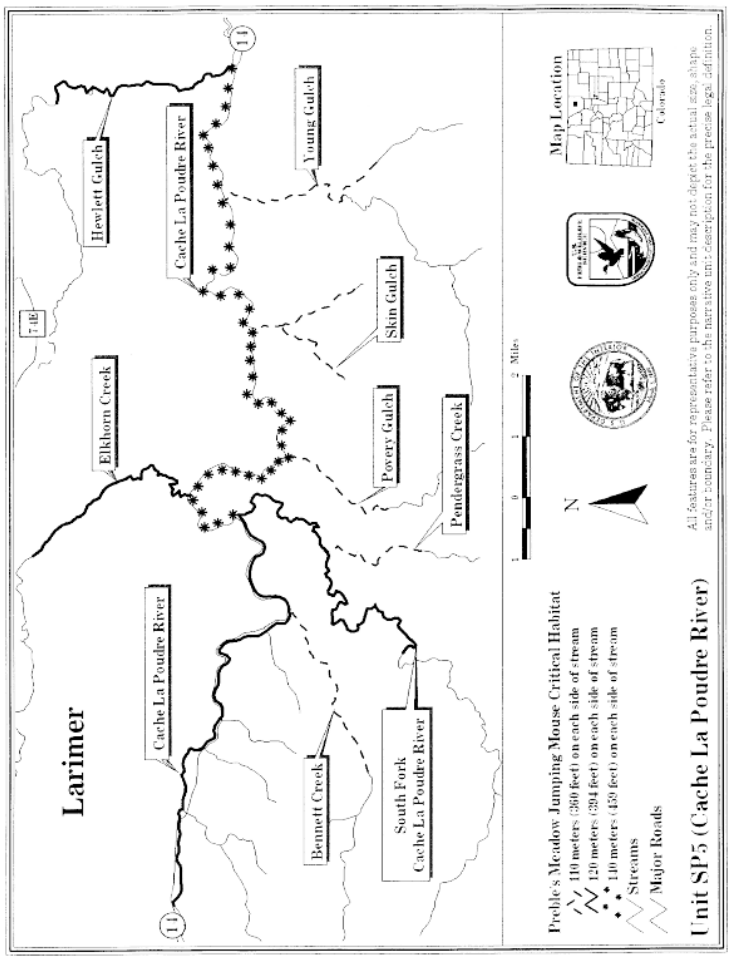
(10) Map Unit SP5: Cache La Poudre River, Larimer County, Colorado.

(i) This unit consists of the following: 82.4 km (51.2 mi) of streams and rivers. Cache La Poudre River from Poudre Park (40 41 16N 105 18 25W, T.8N., R.71W., Sec. 2) upstream to (40 42 02N 105 34 01W, T.9N., R.73W., west boundary Sec. 34). Includes Hewlett Gulch from its confluence with Cache La Poudre River (40 41 16N 105 18 25W, T.8N., R.71W., Sec. 2) upstream to the boundary of Arapahoe—Roosevelt National Forest (40 43 45N 105 19 06W, T.9N., R.71W., Sec. 23). Also includes Young Gulch from its confluence with Cache La Poudre River (40 41 25N 105 20 56W, T.8N., R.71W., Sec. 4) upstream to (40 39 13N 105 20 12W, T.8N., R.71W., south boundary Sec. 15). Also includes an unnamed tributary from its confluence with Cache La Poudre River at Stove Prairie Landing (40 40 58N 105 23 21W, T.8N., R.71W., Sec. 6) upstream to (40 39 32N 105 22 34W, T.8N., R.71W., Sec. 17). Which includes Skin Gulch from its confluence with the aforementioned unnamed tributary at (40 40 33N 105 23 15W, T.8N., R.71W., Sec. 7) upstream to (40 39 41N 105 24 13W, T.8N., R.72W., Sec. 13). Unit SP5 also includes Poverty Gulch from its confluence with Cache La Poudre River (40 40 28N 105 25 42W, T.8N., R.72W., Sec. 11) upstream to 2,300 m (7,600 ft) elevation (40 39 02N 105 26 38W, T.8N., R.72W., Sec. 22). Also includes Elkhorn Creek from its confluence with Cache La Poudre River (40 41 50N 105 26 24W, T.9N., R.72W., Sec. 34) upstream to (40 44 04N 105 27 32W, T.9N., R.72W., Sec. 21). Also includes South Fork Cache La Poudre River from its confluence with Cache La Poudre River (40 41 10N 105 26 46W, T.8N., R.72W., Sec. 3) upstream to 2,300 m (7,600 ft) elevation (40 38 49N 105 29 20W, T.8N., R.72W., Sec. 20). Which includes Pendergrass Creek from its confluence with South Fork Cache La Poudre River (40 39 54N 105 27 27W, T.8N., R.72W., Sec. 15) upstream to 2,300 m (7,600 ft) elevation (40 38 34N 105 27 26W, T.8N., R.72W., Sec. 22). Also included in the unit is Bennett Creek from its confluence with Cache La Poudre River (40 40 26N 105 28 37W, T.8N., R.72W., Sec. 9) upstream to 2,300 m (7,600 ft) elevation (40 39 18N 105 31 31W, T.8N., R.73W., Sec. 13).

(ii) Map Unit SP5 follows:



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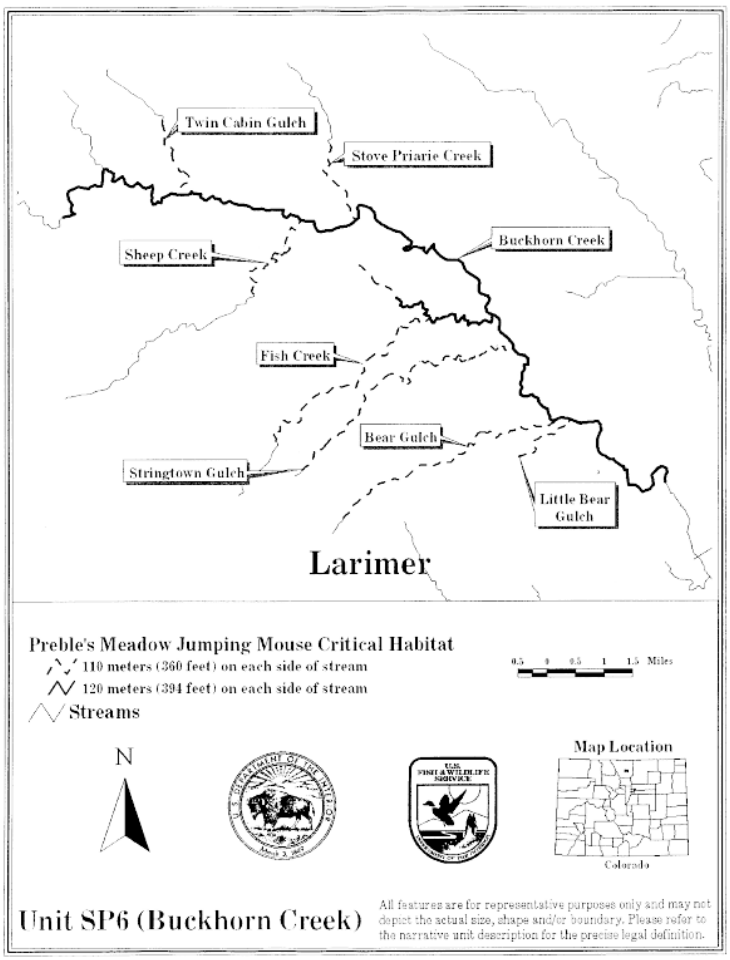
(11) Map Unit SP6: Buckhorn Creek, Larimer County, Colorado.

(i) This unit consists of the following: 69.1 km (43 mi) of streams. Buckhorn Creek from (40 30 20N 105 13 39W, T.6N., R.70W., east boundary Sec. 9) upstream to 2,300 m (7,600 ft) elevation (40 34 17N 105 25 28W, T.7N., R.72W., Sec. 14). Includes Little Bear Gulch from its confluence with Buckhorn Creek (40 31 16N 105 15 32W, T.6N., R.70W., Sec. 5) upstream to (40 30 43N 105 16 33W, T.6N., R.70W., Sec. 6). Also includes Bear Gulch from its confluence with Buckhorn Creek (40 31 15N 105 15 51W, T.6N., R.70W., Sec. 5) upstream to 2,300 m (7,600 ft) elevation (40 29 47N 105 19 59W, T.6N., R.71W., Sec. 10). Also includes Stringtown Gulch from its confluence with Buckhorn Creek (40 32 19N 105 16 40W, T.7N., R.70W., Sec. 30) upstream to 2,300 m (7,600 ft) elevation (40 30 30N 105 20 48W, T.6N., R.71W., Sec. 4). Also includes Fish Creek from its confluence with Buckhorn Creek (40 32 50N 105 17 05W, T.7N., R.70W., Sec. 30)

upstream to 2,300 m (7,600 ft) elevation (40 30 56N 105 21 19W, T.6N., R.71W., Sec. 4). Which includes North Fork Fish Creek from its confluence with Fish Creek (40 32 47N 105 18 18W, T.7N., R.71W., west boundary Sec. 25) upstream and following the first unnamed tributary northwest to (40 33 35N 105 19 42W, T.7N., R.71W., Sec. 22). Also includes Stove Prairie Creek from its confluence with Buckhorn Creek (40 34 15N 105 19 45W, T.7N., R.71W., Sec. 15) upstream to the dirt road crossing at (40 35 22N 105 20 16W, T.7N., R.71W., Sec. 10). Also includes Sheep Creek from its confluence with Buckhorn Creek (40 34 15N 105 20 51W, T.7N., R.71W., Sec. 16) upstream to 2,300 m (7,600 ft) elevation (40 33 09N 105 21 46W, T.7N., R.71W., Sec. 20). Also includes Twin Cabin Gulch from its confluence with Buckhorn Creek (40 34 38N 105 23 11W, T.7N., R.71W., Sec. 18) upstream to 2,300 m (7,600 ft) elevation (40 35 44N 105 23 33W, T.7N., R.71W., Sec. 6).

(ii) Map of Unit SP6 follows:



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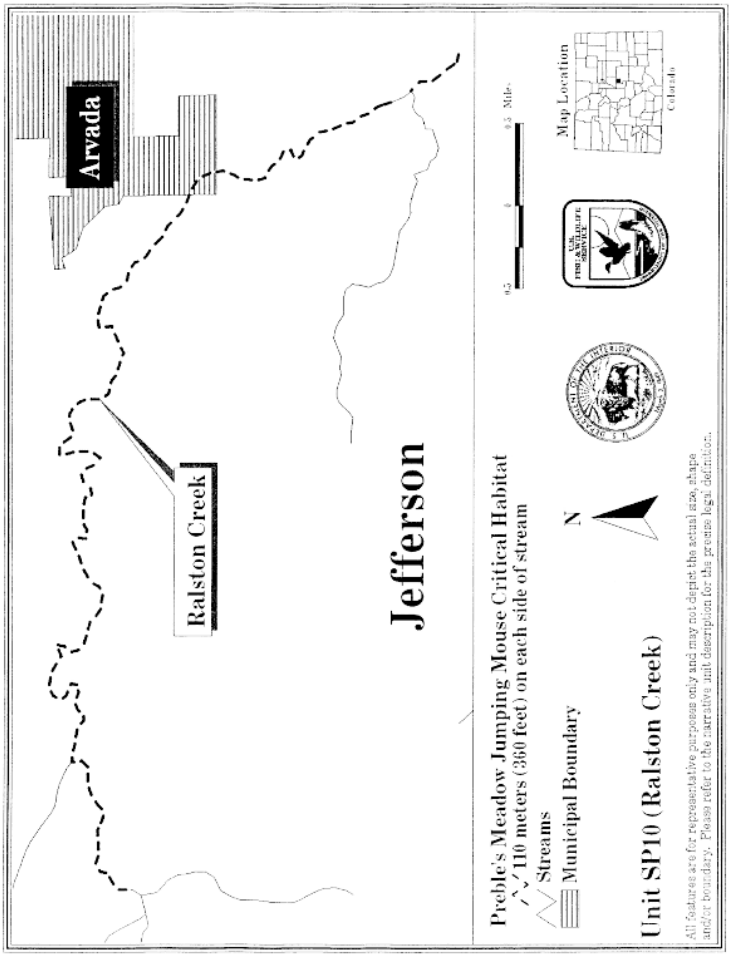
(12) Map Unit SP10: Ralston Creek, Jefferson County, Colorado.

(i) This unit consists of the following: 12.9 km (8.0 mi) of streams. Ralston Creek from Ralston Reservoir (39 49 12N 105 15 32W, T.3S., R.70W. Sec. 6) upstream into Golden Gate Canyon State Park to 2,300 m (7,600 ft) elevation (39 50 54N 105 21 12W, T.2S., R.71W. Sec. 29) excluding 5 ha (12 ac) of property owned by Denver Water just upstream of the reservoir.

(ii) Map of Unit SP10 follows:



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(13) Map Unit SP13: Upper South Platte River, Jefferson and Douglas Counties, Colorado.

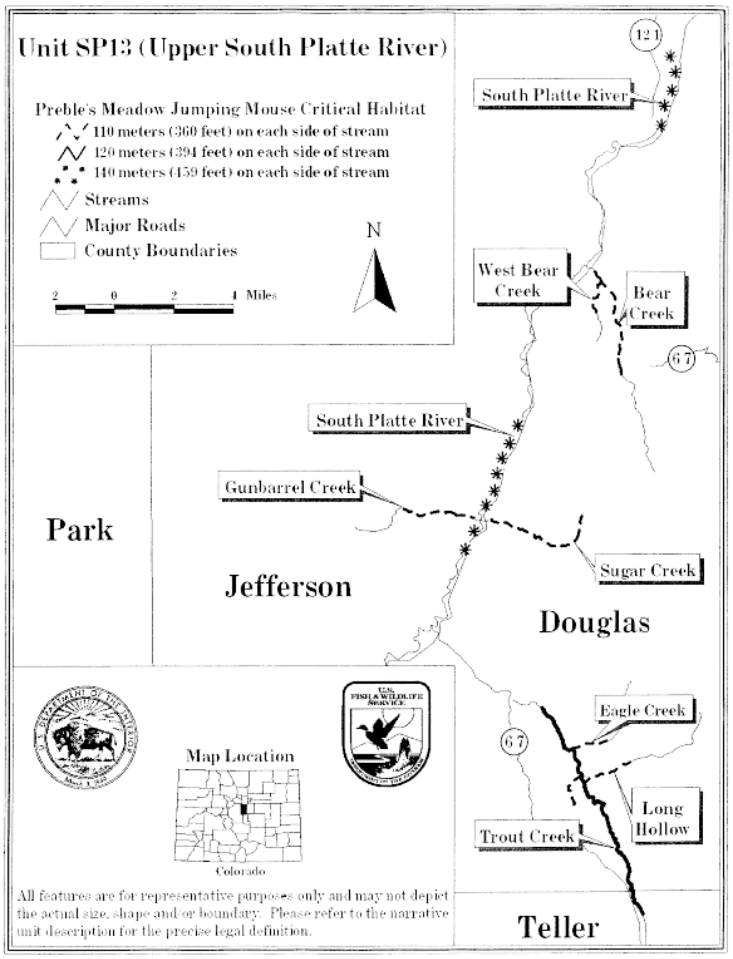
(i) This unit consists of the following: 70.5 km (43.8 mi) of rivers and streams. Consists of 4 subunits. Non-Federal lands in Douglas County are not included in the designation. Subunit South Platte River north segment, on the border of Jefferson County and Douglas County from Chatfield Lake (39 31 35N 105 04 49W, T.6S., R.69W., Sec. 14) upstream to the boundary of U.S. Army Corps of Engineers property (39 29 33N 105 05 15W, T.6S., R.69W., south boundary Sec. 26), excluding 9 ha (22 ac) owned by Denver.

(ii) Subunit Bear Creek, Douglas County from Pike—San Isabel National Forest boundary (39 25 27N 105 07 40W, T.7S., R.69W., west boundary Sec. 21) upstream to (39 22 32N 105 06 40W, T.8S., R.69W., south boundary Sec. 4). Includes West Bear Creek from its confluence with Bear Creek (39 25 15N 105 07 30W, T.7S., R.69W., Sec. 21) upstream to a confluence with an unnamed tributary (39 24 17N 105 07 38W, T.7S., R.69W., Sec. 33).

(iii) Subunit South Platte River south segment, on the border of Jefferson County and Douglas County from the southern boundary of Denver Water property near Nighthawk (39 21 05N 105 10 23W, T.8S., R.70W., Sec. 13) upstream to the northern boundary of Denver Water property at (39 18 50N 105 11 28W, T.8S., R.70W., Sec. 35) and from the southern boundary of Denver Water property at (39 18 02N 105 12 09W, T.9S., R.70W., Sec. 2) to the northern boundary of Denver Water Property at (39 17 27N 105 12 24W, T.9S., R.70W., Sec. 3). Includes Sugar Creek, Douglas County from the eastern boundary of Denver Water lands near Oxyoke (39 18 22N 105 11 32W, T.8S., R.70W., Sec. 35) upstream to 2,300 m (7,600 ft) elevation (39 18 28N 105 08 07W, T.8S., R.69W., Sec. 32). Includes Gunbarrel Creek, Jefferson County from the western boundary of Denver Water lands near Oxyoke (39 18 37N 105 12 02W, T.8S., R.70W., Sec. 34) upstream to (39 18 41N 105 14 34W, T.8S., R.70W., Sec. 32).

(iv) Subunit Trout Creek, Douglas County upstream into Teller County from (39 13 02N 105 09 31W, T.9S., R.69W., Sec. 31) upstream to 2,300 m (7,600 ft) elevation which is 1.3 km (0.8 mi) into Teller County (39 07 13N 105 05 49W, T.11S., R.69W., Sec. 3). Includes Eagle Creek from its confluence with Trout Creek (39 11 52N 105 08 27W, T.10S., R.69W., Sec. 8) upstream to 2,300 m (7,600 ft) elevation (39 12 06N 105 07 12W, T.10S., R.69W., Sec. 9). Also including an unnamed tributary from its confluence with Trout Creek (39 11 07N 105 08 05W, T.10S., R.69W., Sec. 17) upstream to (39 10 18N 105 08 23W, T.10S., R.69W., Sec. 20). Also including Long Hollow from its confluence with Trout Creek (39 10 56N 105 08 01W, T.10S., R.69W., Sec. 17) upstream to 2,300 m (7,600 ft) elevation (39 11 30N 105 06 19W, T.10S., R.69W., Sec. 10).

(v) Map of Unit SP13 follows:



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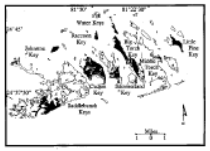
Silver Rice Rat (Oryzomys palustris natator (=O. argentatus)).

Monroe County, Florida: Little Pine Key, Water Keys, Big Torch Key, Middle Torch Key, Summerland Key north of U.S. Highway 1, Cudjoe Key north of U.S. Highway 1, Johnston Key, Raccoon Key, and Lower Saddlebunch Keys, south of U.S. Highway 1 but not including lands in T. 67 S., R. 27 E., Section 8 and north 1/5 of Section 17. Included are all lands and waters above mean low tide.

Within these areas the major constituent elements that are known to require special management considerations or protection are mangrove swamps containing red (*Rhizophora mangle*), black (*Avicennia germinans*), and white (*Laguncularia racemosa*) mangroves, and buttonwood (*Conocarpus erectus*); salt marshes, swales, and adjacent transitional wetlands containing saltwort (*Batis maritima*), perennial glasswort *(Salicornia virginica*), saltgrass (*Distichlis spicata*), sea ox-eye (*Borrichia frutescens*), keygrass (*Monanthochloe littoralis*), and coastal dropseed (*Sporobolus virginicus*); and fresh water marshes containing cattails (*Typha domingensis*), saw-grass (*Cladium jamaicense*), and cordgrass (*Spartina* spp.).

Note:

Map follows:



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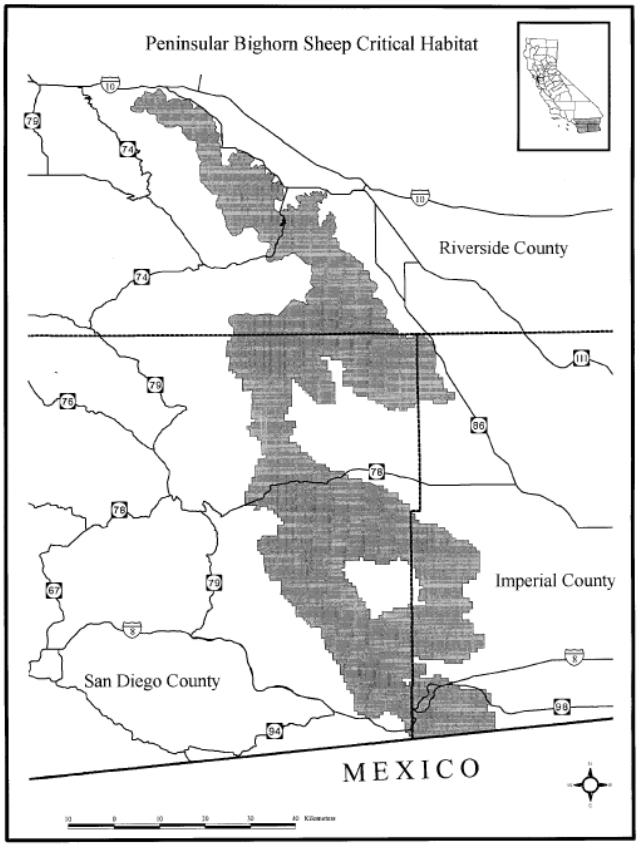
(critical habitat map)

Bighorn Sheep (Peninsular Ranges) (Ovis canadensis)

1. The following map shows the general location of three contiguous designated critical habitat units for the Peninsular bighorn sheep in Riverside, San Diego, and Imperial counties, California, respectively.

Note:

Map follows:



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2. Within these areas, the primary constituent elements for Peninsular bighorn sheep are those habitat components that are essential for the primary biological needs of feeding, resting, reproduction and population recruitment, dispersal, connectivity between ewe groups, and isolation from detrimental human disturbance. The principal biological and physical constituent elements that are essential to the conservation of Peninsular bighorn sheep include: space for the normal behavior of groups and individuals; protection from disturbance; availability of the various native desert plant communities found on different topographic slopes, aspects, and landforms, such as steep slopes, rolling foothills, alluvial fans, and canyon bottoms; a range of habitats that provide forage, especially during periods of drought; steep, remote habitat for lambing, rearing of young, and escape from disturbance and/or predation; water sources; suitable linkages allowing individual bighorn to move freely between ewe groups and maintain connections between subpopulations.

3. Towns and similar developed lands, which do not provide primary constituent elements, are not critical habitat. Road and railroad rights-of-way, flood control facilities, or other facilities that must be traversed by bighorn sheep to maintain connectivity between subpopulations, or otherwise may provide food, water, or cover for Peninsular bighorn sheep, are considered to support primary constituent elements, and therefore are included as critical habitat.

Critical Habitat Unit 1: Riverside County, California. From USGS 1:100,000 quadrangle maps Borrego Valley (1982), and Palm Springs (1982), California, beginning at the Riverside-San Diego County line at Universal Transverse Mercator (UTM) Zone 11, North American Datum of 1927 (NAD27) X-coordinate 544400, land bounded by the following UTM NAD27 coordinates (X, Y): 544400, 3698700; 544500, 3698700; 544500, 3699200; 544600, 3699200; 544600, 3699600; 544700, 3699600; 544700, 3700200; 544600, 3700200; 544600, 3700300; 544500, 3700300; 544500, 3700400; 544300, 3700400; 544300, 3700500; 544200, 3700500; 544200, 3700600; 544100, 3700600; 544100, 3700700; 544000, 3700700; 544000, 3700800; 543900, 3700800; 543900, 3700900; 543800, 3700900; 543800, 3701100; 543700, 3701100; 543700, 3701200; 543600, 3701200; 543600, 3701500; 543500, 3701500; 543500, 3702200; 543600, 3702200; 543600, 3702400; 543700, 3702400; 543700, 3702500; 543800, 3702500; 543800, 3702600; 543900, 3702600; 543900, 3702700; 544100, 3702700; 544100, 3702800; 544500, 3702800; 544500, 3702900; 544700, 3702900; 544700, 3703000; 544900, 3703000; 544900, 3703100; 545600, 3703100; 545600, 3703200; 547200, 3703200; 547200, 3703300; 547800, 3703300; 547800, 3703200; 548100, 3703200; 548100, 3703100; 548300, 3703100; 548300, 3703000; 548600, 3703000; 548600, 3702900; 549700, 3702900; 549700, 3703000; 550400, 3703000; 550400, 3703100; 551300, 3703100; 551300, 3703200; 552800, 3703200; 552800, 3703100; 553200, 3703100; 553200, 3703000; 553600, 3703000; 553600, 3702900; 553800, 3702900; 553800, 3702800; 554500, 3702800; 554500, 3702900; 554600, 3702900; 554600, 3703100; 554700, 3703100; 554700, 3703200; 554800, 3703200; 554800, 3703300; 554900, 3703300; 554900, 3703400; 555000, 3703400; 555000, 3703500; 555100, 3703500; 555100, 3703600; 555200, 3703600; 555200, 3703700; 555300, 3703700; 555300, 3703800; 555400, 3703800; 555400, 3703900; 555500, 3703900; 555500, 3704000; 555600, 3704000; 555600, 3704100; 555700, 3704100; 555700, 3704200; 555800, 3704200; 555800, 3704300; 555900, 3704300; 555900, 3704500; 556000, 3704500; 556000, 3704600; 556100, 3704600; 556100, 3704700; 556200, 3704700; 556200, 3704800; 556300, 3704800; 556300, 3704900; 556400, 3704900; 556400, 3705000; 556500, 3705000; 556500, 3705100; 556600, 3705100; 556600, 3705200; 556700, 3705200; 556700, 3705300; 556800, 3705300; 556800, 3705400; 556900, 3705400; 556900, 3705500; 557000, 3705500; 557000, 3705600; 557100, 3705600; 557100, 3705800; 557200, 3705800; 557200, 3706000; 557300, 3706000; 557300, 3706100; 557400, 3706100; 557400, 3706200; 557500, 3706200; 557500, 3706300; 557900, 3706300; 557900, 3706400; 558100, 3706400; 558100, 3706300; 558400, 3706300; 558400, 3706200; 558600, 3706200; 558600, 3706100; 559200, 3706100; 559200, 3706000; 559600, 3706000; 559600, 3705900; 560000, 3705900; 560000, 3705800; 560200, 3705800; 560200, 3705700; 560300, 3705700; 560300, 3705600; 560400, 3705600; 560400, 3705500; 560500, 3705500; 560500, 3705400; 560900, 3705400; 560900, 3705300; 561100, 3705300; 561100, 3705600; 560900, 3705600; 560900, 3705700; 560800, 3705700; 560800, 3705900; 560700, 3705900; 560700, 3706500; 560600, 3706500; 560600, 3706900; 560500, 3706900; 560500, 3707000; 560600, 3707000; 560600, 3707500; 560700, 3707500; 560700, 3707600; 560800, 3707600; 560800, 3707800; 561000, 3707800; 561000, 3707900; 561100, 3707900; 561100, 3708000; 561200, 3708000; 561200, 3708200; 561300, 3708200; 561300, 3708400;

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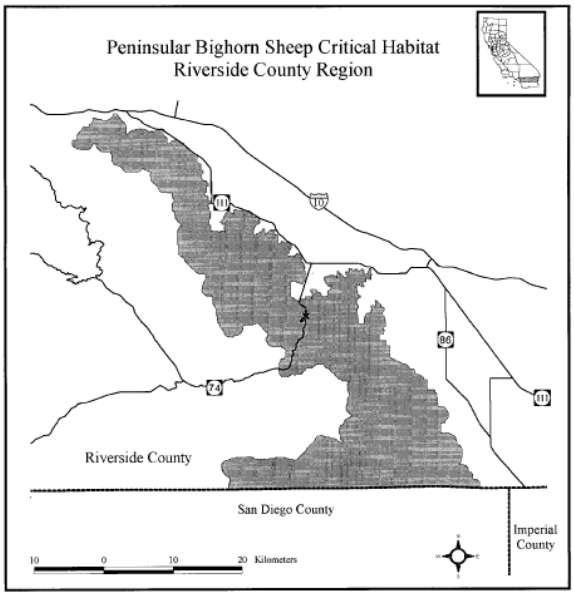
then west along the Riverside County line to the point of beginning at X-coordinate 544400.

Note:

Map follows:



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Critical Habitat Unit 2: San Diego County, California. From USGS 1:100,000 quadrangle maps Borrego Valley (1982) and El Cajon (1979), California. Lands in San Diego County within T9S, R4E, S1; T9S, R4E, S2SE; T9S, R4E, S11NE; T9S, R4E, S11SE; T9S, R4E, S12–S13; T9S, R4E, S14NE; T9S, R4E, S24; T9S, R4E, S25NW; T9S, R4E, S25NE; T9S, R4E, S25SE; T9S, R5E, S1–S36; T9S, R6E, S1–13; T9S, R6E, S14NW; T9S, R6E, S14NE; T9S, R6E, S15–S23; T9S, R6E, S24SW; T9S, R6E, S24SE; T9S, R6E, S25–S36; T9S, R7E, S1–S18; T9S, R7E, S19NE; T9S, R7E, S20NW; T9S, R7E, S20NE; T9S, R7E, S21–S27; T9S, R7E, S28NW; T9S, R7E, S28NE; T9S, R7E, S28SE; T9S, R7E, S31NW; T9S, R7E, S31SW; T9S, R7E, S33–S36; T9S, R8E, S1NE; T9S, R8E, S1SE; T9S, R8E, S1SW; T9S, R8E, S2NW; T9S, R8E, S2SW; T9S, R8E, S2SE; T9S, R8E, S3–S36; T10S, R5E, S1–S5; T10S, R5E, S8NW; T10S, R5E, S8NE; T10S, R5E, S9–S28; T10S, R5E, S33NE; T10S, R5E, S33NW; T10S, R5E, S33SE; T10S, R5E, S34–S36; T10S, R6E, S1–S4; T10S, R6E, S5NE; T10S, R6E, S6–S7; T10S, R6E, S9NE; T10S, R6E, S10–S14; T10S, R6E, S15NE; T10S, R6E, S18–S19; T10S, R6E, S23NE; T10S, R6E, S24NW; T10S, R6E, S24NE; T10S, R6E, S30NW; T10S, R6E, S30SW; T10S, R7E, S1–S4; T10S, R7E, S6NW; T10S, R7E, S6SW; T10S, R7E, S6SE; T10S, R7E, S7; T10S, R7E, S10NE; T10S, R7E, S10SE; T10S, R7E, S11–S12; T10S, R7E, S13NW; T10S, R7E, S13NE; T10S, R7E, S13SE; T10S, R7E, S14NW; T10S, R7E, S14NE; T10S, R7E, S18; T10S, R7E, S19NW; T10S, R7E, S19NE; T10S, R8E, S1–S18; T10S, R8E, S19NE; T10S, R8E, S20NE; T10S, R8E, S20NW; T10S, R8E, S20SE; T10S, R8E, S21–S23; T10S, R8E, S24NW; T10S, R8E, S24NE; T10S, R8E, S24SW; T10S, R8E, S26NW; T10S, R8E, S27NE; T10S, R8E, S28NW; T10S, R8E, S28NE; T11S, R5E, S1–S4; T11S, R5E, S5SE; T11S, R5E, S9–S14; T11S, R5E, S15NE; T11S, R5E, S15NW; T11S, R5E, S15SE; T11S, R5E, S22NE; T11S, R5E, S22SE; T11S, R5E, S23–S26; T11S, R5E, S27NE; T11S, R5E, S34–S36; T11S, R6E, S5NW; T11S, R6E, S5SW; T11S, R6E, S6–S7; T11S, R6E, S18NW; T11S, R6E, S18SW; T11S, R6E, S19; T11S, R6E, S20NW; T11S, R6E, S20SW; T11S, R6E, S20SE; T11S, R6E, S28SW; T11S, R6E, S28SE; T11S, R6E, S29–S33; T11S, R6E, S34NW; T11S, R6E, S34SW; T11S, R6E, S34SE; T12S, R5E, S1–S3; T12S, R5E, S4NE; T12S, R5E, S4SE; T12S, R5E, S9NE; T12S, R5E, S9SE; T12S, R5E, S9SW; T12S, R5E, S10–S16; T12S, R5E, S17SE; T12S, R5E, S20NE; T12S, R5E, S20SE; T12S, R5E, S20SW; T12S, R5E, S21–S33; T12S, R5E, S34NE; T12S, R5E, S34NW; T12S, R5E, S35–S36; T12S, R6E, 1NW; T12S, R6E, S1SW; T12S, R6E, S1SE; T12S, R6E, S2–S36; T12S, R7E, S7–S8; T12S, R7E, S9SW; T12S, R7E, S13SE; T12S, R7E, S13SW; T12S, R7E, S14SW; T12S, R7E, S15–S36; T12S, R8E, S18SE; T12S, R8E, S18SW; T12S, R8E, S19; T12S, R8E, S20NW; T12S, R8E, S20SW; T12S, R8E, S20SE; T12S, R8E, S21SW; T12S, R8E, S21SE; T12S, R8E, S27SW; T12S, R8E, S28–S34; T12S, R8E, S35NW; T12S, R8E, S35SW; T13S, R5E, S1NW; T13S, R5E, S1NE; T13S, R5E, S1SE; T13S, R5E, S13SE; T13S, R5E, S13NE; T13S, R5E, S22SE; T13S, R5E, S23SW; T13S, R5E, S23SE; T13S, R5E, S24NE; T13S, R5E, S24SW; T13S, R5E, S24SE; T13S, R5E, S25–S27; T13S, R5E, S34NW; T13S, R5E, S34NE; T13S, R5E, S34SE; T13S, R5E, S35–S36; T13S, R6E, S1–S6; T13S, R6E, S7NW; T13S, R6E, S7NE; T13S, R6E, S7SE; T13S, R6E, S8–S36; T13S, R7E, S1–S36; T13S, R8E, S1–S36; T14S, R5E, S1–S2; T14S, R5E, S11–S13; T14S, R5E, S14NW; T14S, R5E, S14NE; T14S, R5E, S14SE; T14S, R5E, S23NE; T14S, R5E, S24NE; T14S, R5E, S24NW; T14S, R6E, S1–S30; T14S, R6E, S31NW; T14S, R6E, S31NE; T14S, R6E, S31SE; T14S, R6E, S32–S36; T14S, R7E, S1NW; T14S, R7E, S1NE; T14S, R7E, S1SE; T14S, R7E, S2–S9; T14S, R7E, S16NW; T14S, R7E, S16SE; T14S, R7E, S16SW; T14S, R7E, S17–S21; T14S, R7E, S22SW; T14S, R7E, S26SW; T14S, R7E, S27–S34; T14S, R7E, S35NW; T14S, R7E, S35SW; T14S, R8E, S1; T14S, R8E, S2NE; T14S, R8E, S2NW; T14S, R8E, S2SE; T14S, R8E, S3–S6; T14S, R8E, S8NW; T14S, R8E, S8NE; T14S, R8E, S9NW; T14S, R8E, S9NE; T14S, R8E, S12NE; T15S, R6E, S1–S4; T15S, R6E, S5NW; T15S, R6E, S5NE; T15S, R6E, S5SE; T15S, R6E, S9–S15; T15S, R6E, S16NW; T15S, R6E, S16NE; T15S, R6E, S22NE; T15S, R6E, S23–S24; T15S, R6E, S25NE; T15S, R6E, S25SE; T15S, R6E, S36NE; T15S, R7E, S1SW; T15S, R7E, S2–S11; T15S, R7E, S12NW; T15S, R7E, S12SW; T15S, R7E, S12SE; T15S, R7E, S13–S36; T15S, R8E, S10SE; T15S, R8E, S11SW; T15S, R8E, S11SE; T15S, R8E, S12NE; T15S, R8E, S12SW; T15S, R8E, S12SE; T15S, R8E, S13–S16; T15S, R8E, S17SE; T15S, R8E, S19–S36; T16S, R7E, S1–S6; T16S, R7E, S7NE; T16S, R7E, S8–S16; T16S, R7E, S17NW; T16S, R7E, S17NE; T16S, R7E, S17SE; T16S, R7E, S21–S27; T16S, R7E, S28NW; T16S, R7E, S28NE; T16S, R7E, S28SE; T16S, R7E, S33NE; T16S, R7E, S34–36; T16S, R8E, S1–S34; T16S, R8E, S35NW; T16S, R8E, S35SW; T16S, R8E, S35SE; T16S, R8E, S36SE; T17S, R7E, S1–S2; T17S, R7E, S3NE; T17S, R7E, S3NW; T17S, R7E, S3SE; T17S, R7E, S11–S14; T17S, R7E, S23NW; T17S, R7E, S23NE; T17S, R7E, S23SE; T17S, R7E, S24; T17S, R7E, S25NE; T17S, R8E, S1–S20; T17S, R8E, S21NW; T17S, R8E, S21NE; T17S, R8E, S22–S25; T17S, R8E, S26NW; T17S, R8E, S26NE; T17S, R8E, S26SE; T17S, R8E, S29NW; T17S, R8E, S30NW; T17S, R8E, S30NE; T17S, R8E, S36; T18S, R8E, S1NW; T18S, R8E, S1NE; T18S, R8E, S1SE. The following lands within the Valle de San Felipe Land Grant bounded by UTM NAD27 coordinates (X, Y): 547000, 3664000; 548000, 3664000; 548000, 3663000; 552000, 3663000; 552000, 3662000; 551000, 3662000; 551000, 3661000; 547000, 3661000; 547000, 3664000.

Note:

Map follows:

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Critical Habitat Unit 3: Imperial County, California. From USGS 1:100,000 quadrangle maps Borrego Valley (1982), El Cajon (1979), Salton Sea (1982), and El Centro (1982), California. Lands in Imperial County within T9S, R9E, S5SW; T9S, R9E, S6–S8; T9S, R9E, S9SW; T9S, R9E, S16NW; T9S, R9E, S16SW; T9S, R9E, S17–S20; T9S, R9E, S21NW; T9S, R9E, S21SW; T9S, R9E, S28NW; T9S, R9E, S28SW; T9S, R9E, S29–S32; T9S, R9E, S33NW; T9S, R9E, S33SE; T9S, R9E, S33SW; T10S, R9E, S3NW; T10S, R9E, S3SW; T10S, R9E, S4–S9; T10S, R9E, S10NW; T10S, R9E, S10SE; T10S, R9E, S10SW; T10S, R9E, S14–S18; T10S, R9E, S21NE; T10S, R9E, S21NW; T10S, R9E, S22NE; T10S, R9E, S22NW; T13S, R9E, S6SW; T13S, R9E, S7NW; T13S, R9E, S7SE; T13S, R9E, S7SW; T13S, R9E, S14SW; T13S, R9E, S15NW; T13S, R9E, S15SE; T13S, R9E, S15SW; T13S, R9E, S16–S23; T13S, R9E, S24SW; T13S, R9E, S25–S36; T13S, R10E, S29SW; T13S, R10E, S30–S32; T13S, R10E, S33SW; T14S, R9E, S1–S17; T14S, R9E, S18NE; T14S, R9E, S18SE; T14S, R9E, S19NE; T14S, R9E, S20–S28; T14S, R9E, S29NE; T14S, R9E, S29NW; T14S, R9E, S29SE; T14S, R9E, S32–S36; T14S, R10E, S4NW; T14S, R10E, S4SW; T14S, R10E, S5–S8; T14S, R10E, S9NW; T14S, R10E, S9SW; T14S, R10E, S16NW; T14S, R10E, S17–S19; T14S, R10E, S20NE; T14S, R10E, S20NW; T14S, R10E, S30NW; T14S, R10E, S30SW; T14S, R10E, S31NW; T14S, R10E, S31SW; T15S, R9E, S1–S5; T15S, R9E, S6NE; T15S, R9E, S7–S36; T15S, R10E, S5SW; T15S, R10E, S6–S7; T15S, R10E, S8NW; T15S, R10E, S19; T15S, R10E, S20SW; T15S, R10E, S29NW; T15S, R10E, S29SW; T15S, R10E, S30–S33; T16.5S, R9.5E, S1NW; T16.5S, R9.5E, S1SE; T16.5S, R9.5E, S1SW; T16.5S, R9.5E, S2; T16.5S, R10E, S4SE; T16.5S, R10E, S4SW; T16.5S, R10E, S5SE; T16.5S, R10E, S5SW; T16.5S, R10E, S6SE; T16.5S, R10E, S6SW; T16S, R9E, S1–S14; T16S, R9E, S15NE; T16S, R9E, S15NW; T16S, R9E, S15SE; T16S, R9E, S16NE; T16S, R9E, S16NW; T16S, R9E, S17NE; T16S, R9E, S17NW; T16S, R9E, S18NE; T16S, R9E, S19; T16S, R9E, S28SE; T16S, R9E, S28SW; T16S, R9E, S30NE; T16S, R9E, S30NW; T16S, R9E, S30SW; T16S, R9E, S31–S34; T16S, R9E, S35SW; T16S, R10E, S4–S7; T16S, R10E, S8NE; T16S, R10E, S8NW; T16S, R10E, S18NE; T16S, R10E, S18NW; T17S, R9E, S1–S36; T17S, R10E, S2–S10; T17S, R10E, S11NW; T17S, R10E, S11NE; T17S, R10E, S11SW; T17S, R10E, S13SW; T17S, R10E, S14NW; T17S, R10E, S14SW; T17S, R10E, S14SE; T17S, R10E, S15–S23; T17S, R10E, S24NW; T17S, R10E, S24SW; T17S, R10E, S25NW; T17S, R10E, S25SW; T17S, R10E, S26–S35; T17S, R10E, S36NW; T17S, R10E, S36SW; T18S, R9E, S1–S6; T18S, R9E, S7NE; T18S, R9E, S7SE; T18S, R9E, S7NW; T18S, R9E, S8–S11.

Note:

Map follows:

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Mount Graham Red Squirrel (Tamiasciurus hudsonicus grahamensis)

Arizona. Areas of land, water, and airspace in the Coronado National Forest, T. 8 S., R. 24 E., and T. 9 S., R. 24 E. (Gila and Salt River Meridian), Graham County, with the following components:

1. *Hawk Peak-Mount Graham Area.* The area above the 10,000-foot (3,048-meter) contour surrounding Hawk Peak and Plain View Peak, plus the area above the 9,800-foot (2,987-meter) contour that is south of lines extending from the highest point of Plain View Peak eastward at 90° (from true north) and southwestward at 225° (from true north).

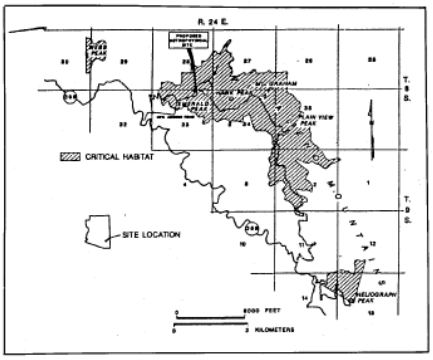
2. *Heliograph Peak Area.* The area on the north-facing slope of Heliograph Peak that is above the 9,200-foot (2,804-meter) contour surrounding Heliograph Peak and that is between a line extending at 15° (from true north) from a point 160 feet (49 meters) due south of the horizontal control station on Heliograph Peak and a line extending northwestward at 300° (from true north) from that same point.

3. *Webb Peak Area.* The area on the east-facing slope of Webb Peak that is above the 9,700-foot (2,957-meter) contour surrounding Webb Peak and that is east of a line extending due north and south through a point 160 feet (49 meters) due west of the horizontal control station on Webb Peak.

The major constituent element is dense stands of mature spruce-fir forest.

Note:

Map follows:



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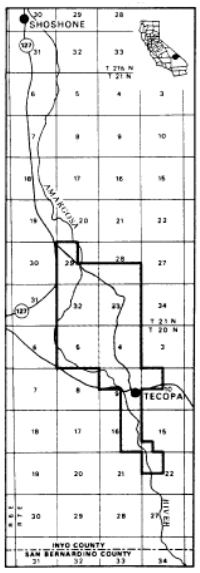
Amargosa Vole (Microtus californicus scirpensis)

California. Marshes and associated land and water in the following areas of Inyo County (San Bernardino Meridian): T20N R7E Sec. 4, 5, N 1/2 and SE 1/4 Sec. 9, NW 1/4 Sec. 10, SW 1/4SW 1/4 Sec. 15, E 1/2 Sec. 16, NW 1/4 Sec. 22; T21N R7E S 1/2 Sec. 28, S 1/2 and NW 1/4 Sec. 29, Sec. 32, 33.

Within these areas, the major constituent elements that are known to require special management considerations or protection are marsh vegetation (primarily bulrushes of the genus *Scirpus*), springs, and some open water along the Amargosa River, which provide escape cover and an adequate food supply.

Note:

Map follows:



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Gray Wolf (Canis lupus)

Michigan. Isle Royale National Park.

Minnesota. Areas of land, water, and airspace in Beltrami, Cook, Itasca, Koochiching, Lake, Lake of the Woods, Roseau, and St. Louis Counties, with boundaries (4th and 5th Principal meridians) identical to those of zones 1, 2, and 3, as delineated in 50 CFR 17.40(d)(1)

Note:

See map in §17.40(d)(1).

(b) *Birds.*

Yellow-Shouldered Blackbird (Agelaius xanthomus)

Puerto Rico. Areas of land, water, and airspace with the following components: (1) All of Mona Island; (2) that portion of the main island of Puerto Rico within the following boundary: Beginning at a point where the Quebrada Boqueron joins the Bahia de Boqueron, thence proceeding southwesterly along coast to Cabo Rojo, thence eastward along the coast, including offshore cays, to the point where Highway 332 meets the Bahia de Guanica, thence northward on Highway 332 to its junction with Highway 116, thence westward on Highway 116 to its junction with Highway 305, thence westward on Highway 305 to its junction with Highway 303, thence northward on Highway 303 to its junction with Highway 101, thence westward on Highway 101 to the point where it crosses Quebrada Boqueron, thence along the Quebrada Boqueron to the point where it joins the Bahia de Boqueron; (3) a circular portion of the main island of Puerto Rico with a one mile radius, the center being the junction of Highways 360 and 102 in the town of San German; (4) Roosevelt Roads Naval Station, southeast of Ceiba.

Note:

No map.

California Condor (Gymnogyps californianus)

California. Sespe-Piru Condor Area: an area of land, water, and airspace to an elevation of not less than 3,000 feet above the terrain, in Ventura and Los Angeles Counties, with the following components (San Bernardino Meridian): Sespe Condor Sanctuary, as delineated by Public Land Order 695 (January 1951); T4N R20W Sec. 2, 5–10, N 1/2 Sec. 11; T4N R21W Sec. 1–3, 10–12, N 1/4 Sec 13, N 1/4 Sec. 14, N 1/4 Sec. 15; T5N R18W Sec. 4–9, 18, 19, 30, 31, N 1/2 Sec. 3, N 1/2 Sec. 17; T5N R21W Sec. 1–4, 9–16, 21–28, 33–36; T6N R18W Sec. 7–11, 14–23, 26–35; T6N R19W Sec. 7–36; T6N R20W Sec. 8–36; T6N R21W Sec. 13–36; T6N R22W Sec. 3–26, 35, 36; T6N R23W Sec. 1–3, 10–14, 24, N 1/2 Sec. 23; T7N R22W Sec. 31; T7N R23W Sec. 34–36.

Matilija Condor Area: An area of land, water, and airspace to an elevation of not less than 3,000 feet above the terrain, in Ventura and Santa Barbara Counties, with the following components (San Bernardino Meridian): T5N R24W W 1/2 Sec. 3, Sec. 4–11, 14, 15, N 1/2 Sec. 16, N 1/4 Sec. 17; T5N R25W E 1/2 Sec. 1, NE 1/4 Sec. 12; T5 1/2N R24W Sec. 31–34; T6N R24W S 1/2 Sec. 32, S 1/2 Sec. 33, S 1/2 Sec. 34.

Sisquoc-San Rafael Condor Area: An area of land, water, and airspace to an elevation of not less than 3,000 feet above the terrain, Santa Barbara County, with the following components (San Bernardino Meridian): T6N R26W Sec. 5, 6; T6N R27W Sec. 1, 2; T7N R26W Sec. 5–8, 17–20, 29–32; T7N R27W Sec. 1–14, 23–26, 35, 36; T7N R28W Sec. 1, 2, 11, 12; T8N R26W Sec. 19–22, 27–34; T8N R27W Sec. 19–36.

Hi Mountain-Beartrap Condor Areas: Areas of land, water, and airspace to an elevation of not less than 3,000 feet above the terrain in San Luis Obispo County, with the following components (Mt. Diablo Meridian): T30S R16E Sec. 13, 14, 23–26, SE 1/4 Sec. 11, S 1/2 Sec. 12; T30S R17E Sec. 17–20, 29, 30; T31S R14E Sec. 1, 2, 11, 12, E 1/2 Sec. 3, E 1/2 Sec. 10, N 1/2 Sec. 14, N 1/2 Sec. 13; T31S R15E W 1/2 Sec. 6, W 1/2 Sec. 7, NW 1/4 Sec. 18.

Mt. Pinos Condor Area: An area of land, water, and airspace in Ventura and Kern Counties, with the following components (San Bernardino Meridian): T8N R21W W 1/2 Sec. 5, Sec. 6 N 1/2 Sec. 7, NW 1/4 Sec. 8; T8N R22W Sec. 1, 2, E 1/2 Sec. 3, NE 1/4 Sec. 10, N 1/2 Sec. 11, N 1/2 Sec. 12; T9N R21W Sec. 31, 32, W 1/2 Sec. 33; T9N R22W E 1/2 Sec. 35, Sec. 36.

Blue Ridge Condor Area: An area of land, water, and airspace in Tulare County, with the following components (Mt. Diablo Meridian): T19S R29E Sec. 5–9, 15–22, 27–30.

Tejon Ranch: An area of land, water, and airspace in Kern County, with the following components (San Bernardino Meridian): R16W, T10N, R17W T10N, R17W T11N, R18W T9N, R18W T10N, R19W T10N.

Kern County rangelands: An area of land, water, and airspace in Kern County between California State Highway 65 and the western boundary of Sequoia National Forest, with the following components (Mt. Diablo Meridian): R29E T25S, R29E T26S, R30E T25S, R30E T26S.

Tulare County rangelands: An area of land, water, and airspace in Tulare County between California State Highway 65, State Highway 198, and the western boundary of Sequoia National Forest, with the following components (Mt. Diablo Meridian): R28E T18S (all sections); R28E T19S (all sections); R28E T20S (all sections); R28E T21S Sec. 1–18; R29E T20S (all sections); R29E T21S Sec. 1–18.

Note:

No map.

Mississippi Sandhill Crane (Grus canadensis pulla).

Mississippi. Areas of land, water, and airspace in Jackson County, with the following components (St. Stephens Base Meridian): T6S R6W Sec. 31; T6S R7W E 1/2 of E 1/2 Sec. 34, Sec. 35–36, S 1/2 Sec. 38; T6S R8W Sec. 27, those portions of Sec. 28–31 south of Seaman Road, Sec. 32–34; T7S R6W N 1/2 of N 1/2 Sec. 3, Sec. 6; T7S R7W Sec. 2–11, Sec. 13–16, Sec. 20–22, W 1/2 Sec. 23, W 1/2 of E 1/2 Sec. 23, NE 1/4 of NE 1/4 Sec. 23, N 1/2 of N 1/2 Sec. 24, that portion of the SW 1/4 of SW 1/4 Sec. 30 south of the Louisville and Nashville Railroad, W 1/2 of W 1/2 Sec. 31, W 1/2 Sec. 37, that portion of the E 1/2 Sec. 37 north of U.S. Interstate Highway 10; T7S R8W Sec. 1–3, that portion of Sec. 4 north of U.S. Interstate Highway 10, Sec. 5–6, those portions of Sec. 7–8 north of U.S. Interstate Highway 10, Sec. 10–12, W 1/2 of W 1/2 Sec. 14, Sec. 15, that portion of Sec. 25 south of the Louisville and Nashville Railroad, that portion of the SE 1/4 of Sec. 26 south of the Louisville and Nashville Railroad and southeast of Davis Bayou, N 1/2 of NE 1/4 Sec. 35, Sec. 36.

Note:

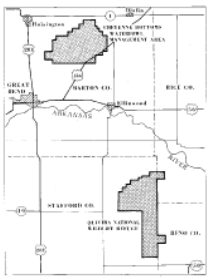
No map.

Whooping Crane (Grus americana)

Kansas. Areas of land, water, and airspace with the following components: (1) Quivira National Wildlife Refuge in Stafford, Reno, and Rice Counties; and (2) Cheyenne Bottoms State Waterfowl Management Area in Barton County.

Note:

Map follows:



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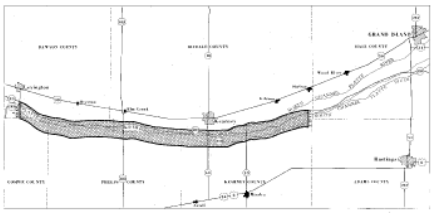
Nebraska. An area of land, water, and airspace in Dawson, Buffalo, Hall, Phelps, Kearny, and Adams Counties with the following boundaries: *Platte River bottoms*—a strip of river bottom with a north-south width 3 miles, a south boundary paralleling Interstate 80, beginning at the junction of U.S. Highway 283 and Interstate 80 near Lexington, and extending eastward along Interstate 80 to the interchange for Shelton and Dehman, Nebr. near the Buffalo-Hall County line.

Note:

Map follows:



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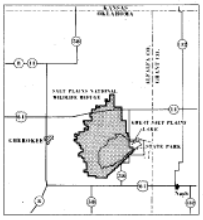
Oklahoma. An area of land, water, and airspace in Alfalfa County with the following component: Salt Plains National Wildlife Refuge.

Note:

Map follows:



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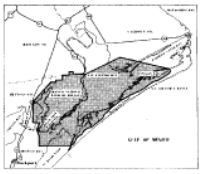
Texas. An area of land, water, and airspace in Aransas, Calhoun, and Refugio Counties with the following boundaries: Beginning at the point where the north boundary of the Aransas National Wildlife Refuge intersects the shore of San Antonio Bay at Webb Point; thence, from this point along a straight line across San Antonio Bay through the westernmost tip of Mosquito Point and inland to a point of intersection with metal surfaced road; thence eastward along a straight line across Espiritu Santo Bay to the intersection of the bay shore and a road at the east end of Pringle Lake on Matagorda Island; thence south along this road to the intersection with the main Matagorda Island road; southwestward along this main road to Cedar Bayou at latitude 28°04'10" N.; thence due west across Cedar Bayou, Vinson Slough, and Isla San Jose to Gulf Intracoastal Waterway platform channel marker No. 25; thence north to the southwest corner of the proclamation boundary, just south of Blackjack Point; thence north along the proclamation boundary into St. Charles Bay to a line drawn as an eastward extension of Twelfth Street on Lamar Peninsula; thence westward along this line to intersection with Palmetto Avenue; thence northward along a straight line to the southwest corner of the Aransas National Wildlife Refuge at Texas State Highway 35 and the north shore of Cavasso Creek; thence northeast on a straight line to the corner of the Aransas National Wildlife Refuge north boundary adjacent to triangulation station “Twin”; thence along the north boundary of said refuge to the starting point at Webb Point.

Note:

Map follows:



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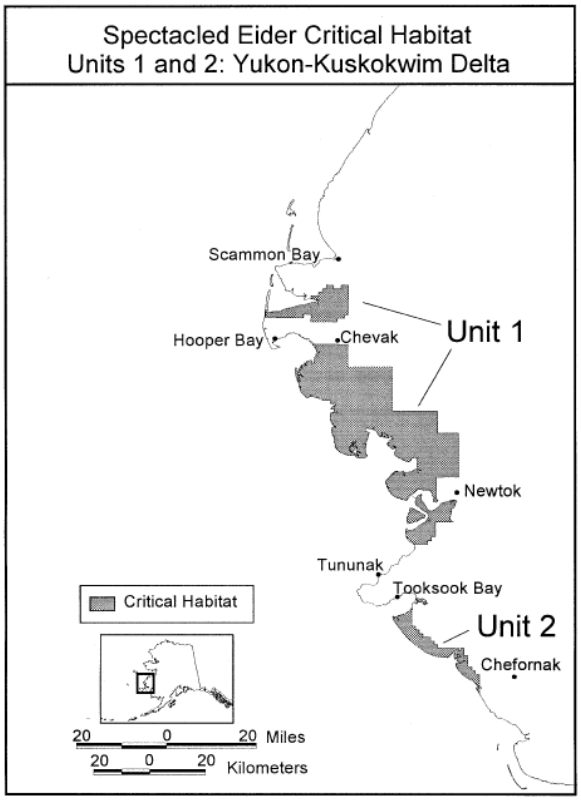
Spectacled Eider (Somateria fischeri)

1. Critical habitat units are depicted for Unit 1 (Central Yukon-Kuskokwim Delta), Unit 2 (South Y–K Delta Unit), Unit 3 (Norton Sound), Unit 4 (Ledyard Bay), and Unit 5 (the Wintering Unit in the Bering Sea between St. Lawrence and St. Matthew Islands) for reference only. The areas in critical habitat are described below.

2. Within these areas, the primary constituent elements are those habitat components that are essential for the primary biological needs of feeding, nesting, brood rearing, roosting, molting, migrating and wintering. The primary constituent elements for Units 1 and 2 (the Y–K Delta units) include the vegetated intertidal zone and all open water inclusions within this zone. Primary constituent elements for the Norton Sound Unit (Unit 3) and the Ledyard Bay Unit (Unit 4) include all marine waters greater than 5 m (16.4 ft) in depth and less than or equal to 25 m (82.0 ft) in depth, along with associated marine aquatic flora and fauna in the water column, and the underlying marine benthic community. Primary constituent elements for the Wintering Unit (Unit 5) include all marine waters less than or equal to 75 m (246.1 ft) in depth, along with associated marine aquatic flora and fauna in the water column, and the underlying marine benthic community. Critical habitat does not include those areas within the boundary of any unit that do not fit the description of primary constituent elements for that unit.

3. Critical habitat does not include existing features and structures, such as buildings, roads, pipelines, utility corridors, airports, other paved areas, and other developed areas.

4. This final rule designating critical habitat for the spectacled eider uses published coordinates of prominent landmarks, when appropriate, obtained from the Dictionary of Alaska Place Names.



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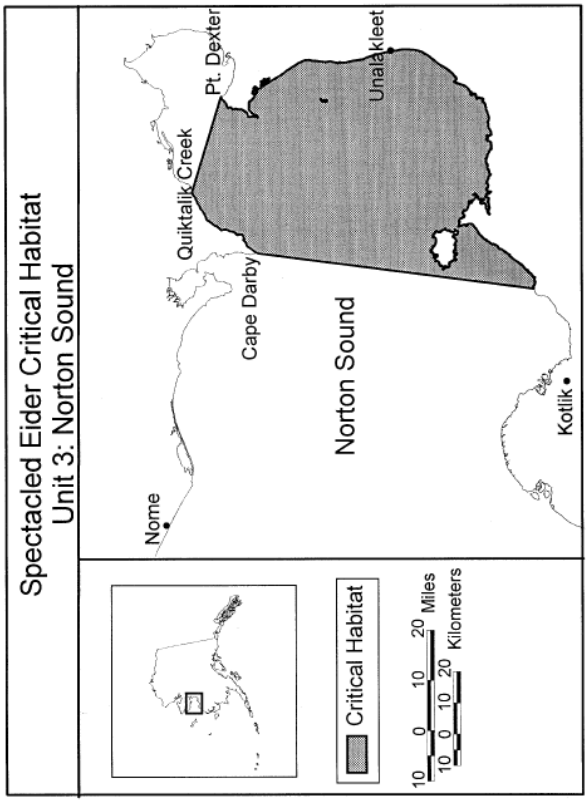
Unit 1. Central Y–K Delta Unit

Seward Meridian: T19N, R91W, Sections 24, 25, 26, 33, 34, 35, 36; T19N, R90W, Sections 13, 14, 17, 18, 19–36; T18N, R90W, Sections 1–24, 26–33; T18N, R91W, Sections 1–5, 7–28, 33–36; T18N, R92W, Sections 10–30; T18N, R93W, Sections 21–27; T16N, R91W, Sections 1–36; T16N, R92W, Sections 1–4, 10–15, 21–36; T16N, R93W, Section 36;T15N, R89W, Sections 1–36; T15N, R90W, Sections 1–36; T15N, R91W, Sections 1–36; T15N, R92W, Sections 1–36; T15N, R93W, Sections 1,2, 11–14, 23–26, 36; T14N, R89W, Sections 1–36; T14N, R90W, Sections 1–36; T14N, R91W, Sections 1–29, 32–36; T14N, R92W, Sections 1–18, 24; T14N, R93W, Sections 1, 12; T13N, R87W, Sections 1–36; T13N, R88W, Sections 1–36; T13N, R89W, Sections 1–36; T13N, R90W, Sections 1–36; T13N, R91W, Sections 1–5, 8–17, 20–29, 32–36; T12N, R87W, Sections 1–36; T12N, R88W, Sections 1–29, 31–36; T12N, R89W, Sections 1–35; T12N, R90W, Sections 1–4, 9–14, 23–25; T12N, R91W, Sections 1–36; T12N, R92W, Sections 1–4, 9–16, 21–28, 34–36; T11N, R87W, Sections 1–36; T11N, R88W, Sections 1–36, T11N, R89W, Sections 1–6, 9–12, 25–36; T11N, R91W, Sections 1–6; T10N, R88W, Sections 1–26, 29–33, 35, 36; T10N, R89W, Sections 1–35; T10N, R90W, Sections 1, 2, 11–14, 24, 25; T9N, R87W, Sections 1–35; T9N, R88W, Sections 1, 4–10, 13–36; T9N, R89W, Sections 13, 14, 23–26, 35, 36; T8N, R89W, Sections 1–5, 7–24, 26–34; T8N, R90W, Sections 1–2, 11, 13, 14, 23–26, 36;

Unit 2. South Y–K Delta Unit

Seward Meridian: T4N, R90W, Sections 30–32; T4N, R91W, Sections 1–3, 8–17, 20–28, 34–36; T3N, R89W, Section 19; T3N, R90W, Sections 4–11, 13–28, 34–36; T3N, R91W, Sections 1–3, 11–13; T2N, R88W, Sections 4–9, 16–22, 26–30, 32–36; T2N, R89W, Sections 1–6, 12, 13, 24; T1N, R88W, Sections 1–4, 11–14, 24–25.



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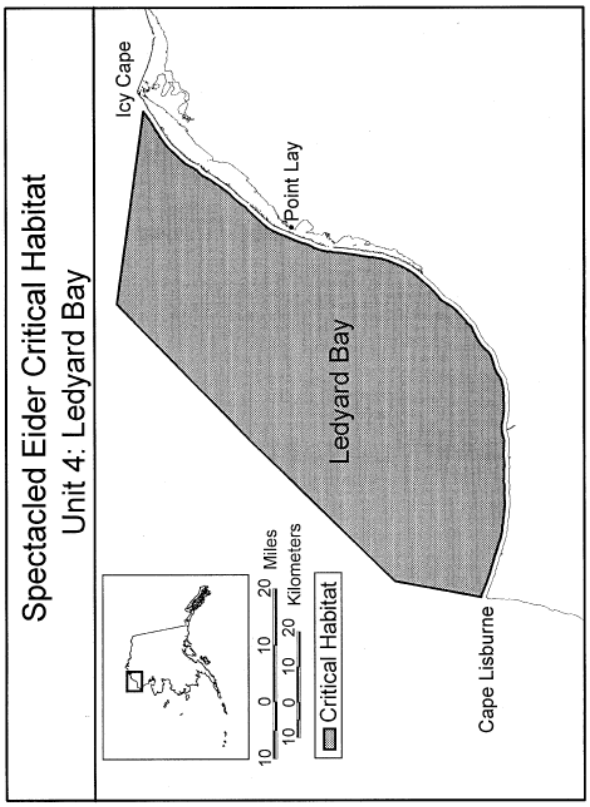
Unit 3. Norton Sound Unit

The area bound by the following description: From Cape Darby (64°19'00" N × 162°47'00" W) south along the line of longitude 162°47'00" W to the opposite shore of Norton Sound (63°12'51" N × 162°47'00" W), thence along the mean low tide line of the Alaska coast north and east to Point Dexter (64°32'00" N × 161° 23'00" W), thence along the great circle route to the southern bank of the mouth of Quiktalik Creek (64° 36'00" N × 162°18'00" W), and from that point along the mean low tide line of the Alaska coast south and west to Cape Darby (64°19'00" N × 162°47'00" W). The lands of Stuart Island are excluded from Unit 3.



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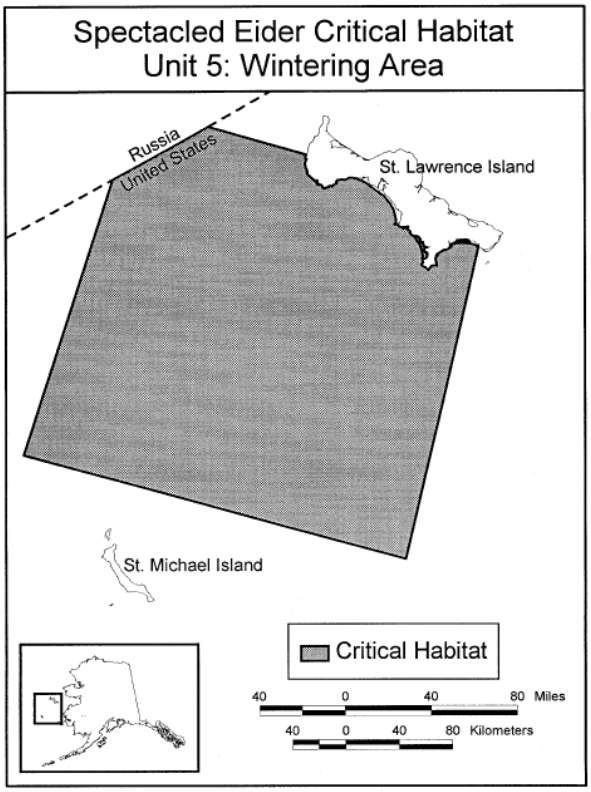
Unit 4. Ledyard Bay Unit

The area bound by the following description: from the point 1 nm true north of Cape Lisburne (68°54'00" N × 166°13'00" W), remaining 1.0 nm offshore of the mean low tide line (maintaining a 1.0 nm buffer from the mean low tide line) of the Alaska coast north and east to 70°20'00" N × 161°56'11" W (1 nm offshore of Icy Cape); thence west along the line of latitude 70°20'00" N to the point 70°20'00" N × 164°00'00" W; thence along a great circle route to 69°12'00" N × 166°13'00" W; thence due south to the point of origin1 nm true north of Cape Lisburne (68°54'00" N × 166°13'00" W).



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Unit 5. Wintering Area Unit

The area bound by the following description: from 61°00'00" N × 174°30'00" W east along that latitude to 61°00'00" N × 169°00'00" W, north along 169°00'00" W longitude to the south shore of St. Lawrence Island (at 63°10'18" N × 169°00'00" W; thence west and north along the mean low tide line of the south shore of St. Lawrence Island to 63°30'00" N × 171°50'13" W, west to the U.S.-Russia border at 63°30'00" N × 173° 22'45" N, southwest along the U.S.-Russia Border to 62°58'10" N × 174°30'00" W, south along 174°30'00" W to 61°00'00" N × 174°30'00" W.

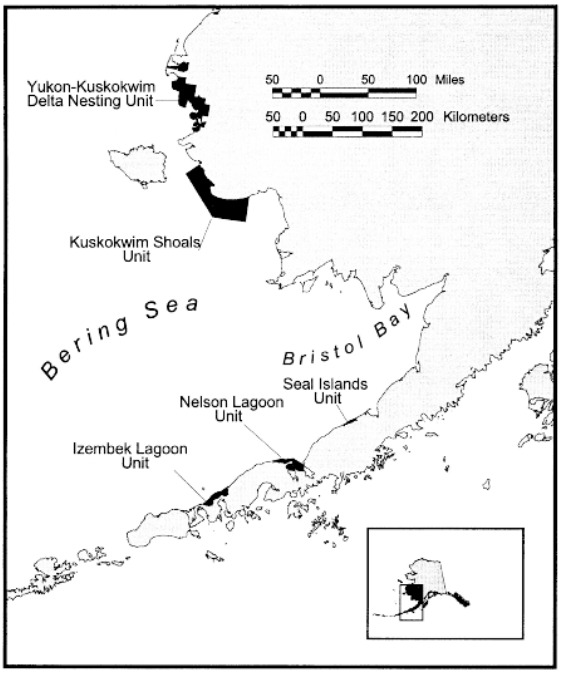
Steller's Eider (Polysticta stelleri)

1. Critical habitat units are depicted for the Yukon—Kuskokwim Delta (Unit 1), Kuskokwim Shoals (Unit 2), Seal Islands (Unit 3), Nelson Lagoon (Unit 4), and Izembek Lagoon (Unit 5) on the maps below. The maps are for reference only; the areas in critical habitat are legally described below.

2. Within these areas, the primary constituent elements are those habitat components that are essential for the primary biological needs of feeding, roosting, molting, and wintering. The primary constituent elements for Unit 1 include the vegetated intertidal zone and all open water inclusions within this zone. The primary constituent elements for Units 2, 3, 4, and 5 are marine waters up to 9 m (30 feet) deep and the underlying substrate, the associated invertebrate fauna in the water column, the underlying marine benthic community, and where present, eelgrass beds and associated flora and fauna. Critical habitat does not include those areas within the boundary of any unit that do not fit the description of primary constituent elements for that unit.

3. Critical habitat does not include existing human structures, such as buildings, roads, pipelines, utility corridors, airports, other paved areas, docks, wharves, buoys, or other developed areas.

4. In the following maps and legal descriptions, all geographic coordinates are in North American Datum 1927.



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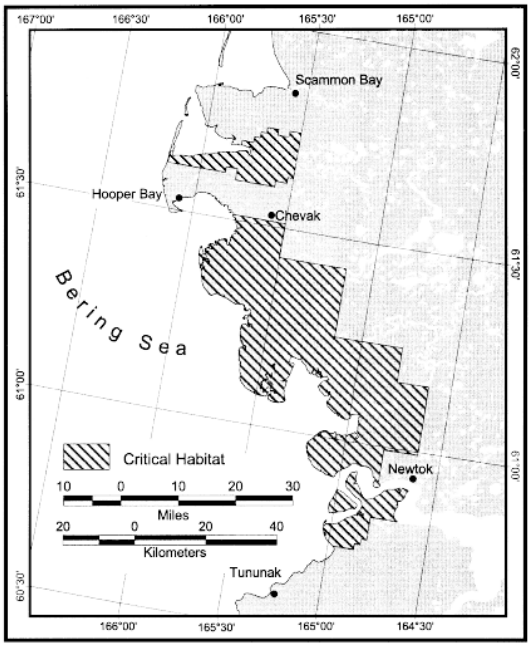

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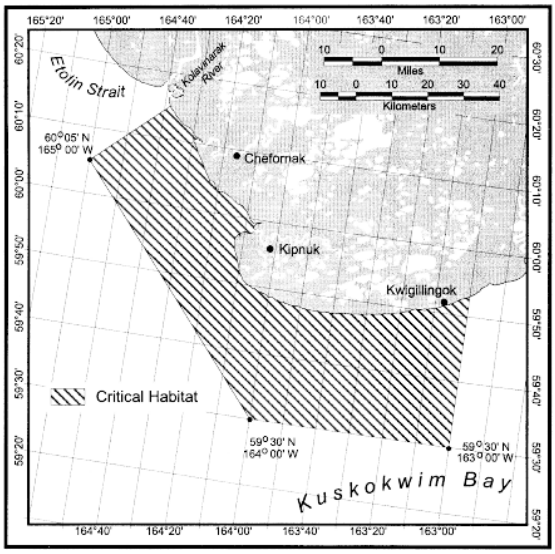
Unit 1. Yukon—Kuskokwim Delta

Seward Meridian: T19N, R91W, Sections 24, 25, 26, 33, 34, 35, 36; T19N, R90W, Sections 13, 14, 17, 18, 19–36; T18N, R90W, Sections 1–24, 26–33; T18N, R91W, Sections 1–5, 7–28, 33–36; T18N, R92W, Sections 10–30; T18N, R93W, Sections 21–27; T16N, R91W, Sections 1–36; T16N, R92W, Sections 1–4, 10–15, 21–36; T16N, R93W, Section 36; T15N, R89W, Sections 1–36; T15N, R90W, Sections 1–36; T15N, R91W, Sections 1–36; T15N, R92W, Sections 1–36; T15N, R93W, Sections 1,2, 11–14, 23–26, 36; T14N, R89W, Sections 1–36; T14N, R90W, Sections 1–36; T14N, R91W, Sections 1–29, 32–36; T14N, R92W, Sections 1–18, 24; T14N, R93W, Sections 1, 12; T13N, R87W, Sections 1–36; T13N, R88W, Sections 1–36; T13N, R89W, Sections 1–36; T13N, R90W, Sections 1–36; T13N, R91W, Sections 1–5, 8–17, 20–29, 32–36; T12N, R87W, Sections 1–36; T12N, R88W, Sections 1–29, 31–36; T12N, R89W, Sections 1–35; T12N, R90W, Sections 1–4, 9–14, 23–25; T12N, R91W, Sections 1–36; T12N, R92W, Sections 1–4, 9–16, 21–28, 34–36; T11N, R87W, Sections 1–36; T11N, R88W, Sections 1–36, T11N, R89W, Sections 1–6, 9–12, 25–36; T11N, R91W, Sections 1–6; T10N, R88W, Sections 1–26, 29–33, 35, 36; T10N, R89W, Sections 1–35; T10N, R90W, Sections 1, 2, 11–14, 24, 25; T9N, R87W, Sections 1–35; T9N, R88W, Sections 1, 4–10, 13–36; T9N, R89W, Sections 13, 14, 23–26, 35, 36; T8N, R89W, Sections 1–5, 7–24, 26–34; T8N, R90W, Sections 1–2, 11, 13, 14, 23–26, 36.



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Unit 2. Kuskokwim Shoals Unit

Beginning at a point of land on the line of mean high tide of Etolin Strait of the Bering Sea at latitude 60°15' North, approximately 2.5 kilometers (1.6 miles) south of the mouth of the Kolavinarak River, and the true point of beginning of the lands to be described.

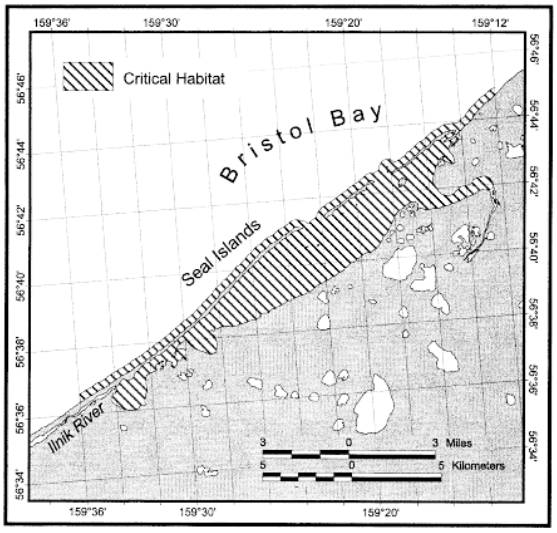
Thence southeasterly and easterly with the line of mean high tide of the Bering Sea, common with the boundary of the Yukon Delta and Alaska Maritime National Wildlife Refuges as established by the Alaska National Interest Lands Conservation Act (Public Law 96–487) on December 2, 1980, approximately 149 kilometers (93 miles), to a point on the line of mean high tide at longitude 163°00' West, approximately 8 kilometers (5 miles) east of the Kwigillingok River mouth;

Thence south along the line of longitude 163°00' West, approximately 43 km (27 miles), to the point in the waters of Kuskokwim Bay, Bering Sea, at latitude 59°30' North, longitude 163°00' West;

Thence west along the line of latitude 59°30' North, approximately 56 kilometers (35 miles), to a point in the waters of Kuskokwim Bay, Bering Sea, at latitude 59°30' North, longitude 164°00' West;

Thence northwesterly, approximately 86 kilometers (54 miles), to a point in the waters of Etolin Strait, Bering Sea, at latitude 60°05' North, longitude 165°00' West;

Thence northeasterly, approximately 27 kilometers (17 miles), to the line of mean high tide of Etolin Strait at latitude 60°15” North, and the true point of beginning.



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Unit 3. Seal Islands Unit

Beginning at a point of land on the Alaska Peninsula on the line of mean high tide of Bristol Bay of the Bering Sea at longitude 159°12' West, and the True Point of Beginning of the lands to be described.

Thence southwesterly, northeasterly, and southwesterly, with the line of mean high tide of Bristol Bay, common with the boundary of the Alaska Maritime National Wildlife Refuge as established by the Alaska National Interest Lands Conservation Act (Public Law 96–487) on December 2, 1980, to encompass the Seal Islands lagoon and closing the mouth of the Ilnik River, approximately 52 kilometers (32 miles);

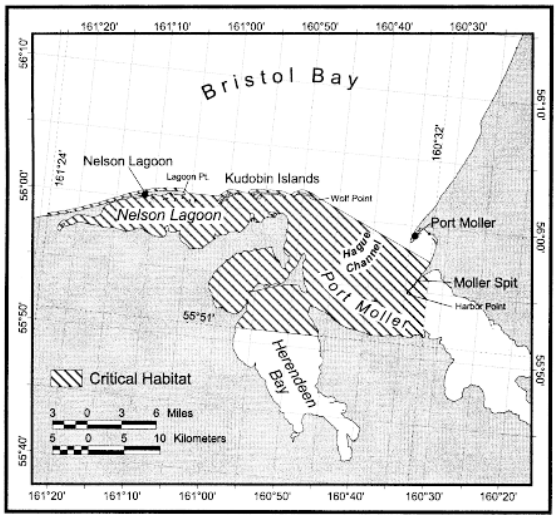
Thence northwest with the line of mean high tide of Bristol Bay, common with said refuge boundary approximately 14 kilometers (9 miles) to a point at the entrance to Seal Island lagoon at approximate longitude 159°23' West;

Thence southwest, with the line of mean high tide of Bristol Bay, common with said refuge boundary, approximately 16 kilometers (10 miles) to a point at longitude 159°36' West:

Thence north with the line of longitude 159°36' West to a point in the waters of Bristol Bay at a distance of 400 meters (1/4 mile) perpendicular to the line of mean high tide;

Thence in a northeasterly direction, parallel to the coastline of Bristol Bay and the ocean side of the Seal islands, closing the entrances to Seal Island lagoon, for approximately 30 kilometers (19 miles) to a point in Bristol Bay at longitude 159°12' West, and at a distance of 400 meters (1/4 mile) perpendicular to the line of mean high tide;

Thence south with the line of longitude 159°12' West, to the line of mean high tide of Bristol Bay, and the True Point of Beginning.



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Unit 4. Nelson Lagoon Unit

Beginning at a point of land on the Alaska Peninsula on the line of mean high tide of Bristol Bay of the Bering Sea, approximately 5.5 kilometers (3.4 miles) north of Harbor Point, on Moller Spit, at longitude 160°32' West, and the True Point of Beginning of the lands to be described.

Thence southwesterly and northeasterly, with the line of mean high tide of Bristol Bay, common with the boundary of the Alaska Maritime National Wildlife Refuge as established by the Alaska National Interest Lands Conservation Act (Public Law 96–487) on December 2, 1980, approximately 10 kilometers (6.2 miles) to a point at longitude160°32' West;

Thence south with the line of longitude 160°32' West, crossing Port Moller, approximately 9 kilometers (5.6 miles) to a point at the mean high tide line on the south shore of Port Moller;

Thence westerly and southerly with the line of mean high tide of Port Moller and Herendeen Bay common with said refuge boundary approximately 24 kilometers (15 miles) to a point at latitude 55°51' North;

Thence west with the line of latitude 55°51' North, crossing Herendeen Bay approximately 11.7 kilometers (7.3 miles) to a point at the mean high tide line on the west shore of Herendeen Bay;

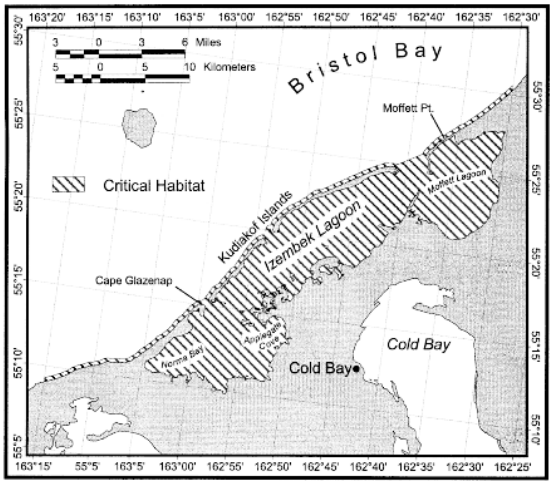
Thence northerly, westerly, and northeasterly with the line of mean high tide of Herendeen Bay and Nelson Lagoon, common with said refuge boundary; approximately 94 kilometers (58 miles) to Lagoon Point, within Section 22 of Township 48 South, Range 76 West;

Thence southwesterly with the line of mean high tide of the Bering Sea, common with said refuge boundary, approximately 20 kilometers (12 miles) to a point at longitude 161°24' West;

Thence north along the line of longitude 161°24' West to a point in the waters of Bristol Bay at a distance of 400 meters (1/4 mile) perpendicular to the line of mean high tide;

Thence in a northeasterly direction, parallel to the coastline of Bristol Bay and the ocean side of the Kudobin Islands, approximately 40 kilometers (25 miles) to a point at longitude160°48' West, at a distance of 400 meters (1/4 mile) offshore Wolf Point on Walrus island;

Thence southeast, approximately 18 kilometers (11.1 miles), closing the entrance to the Hague Channel to a point at the mean high tide line of Port Moller at 160°32' West, the True Point of Beginning.



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Unit 5. Izembek Lagoon Unit

Beginning at a point of land on the Alaska Peninsula on the line of mean high tide of Bristol Bay of the Bering Sea at longitude 162°30' W and the True Point of Beginning of the lands to be described.

Thence southwesterly, with the line of mean high tide of Bristol Bay, common with the boundary of the Alaska Maritime National Wildlife Refuge as established by the Alaska National Interest Lands Conservation Act (Public Law 96–487) on December 2, 1980, approximately 9 kilometers (5.6 miles) to Moffet Point located at approximately 55°27' N, 162°37' W;

Thence continuing with the line of mean high tide, inside the boundary of the Izembek National Wildlife Refuge, northeasterly, southwesterly, and northeasterly to encompass Moffett and Izembek Lagoons, Applegate Cove, and Norma Bay, approximately 55 miles to Cape Glazenap, at approximately 55°15' N, 163°00' W;

Thence southwest with the line of mean high tide of Bristol Bay, common to the Alaska Maritime refuge boundary, approximately 177 kilometers (110 miles) to a point at longitude 163°15' W;

Thence north along the line of longitude 163°15' W to a point in the waters of Bristol Bay at a distance of 400 meters (1/4 mile) perpendicular to the line of mean high tide;

Thence in a northeasterly direction, parallel to the coastline of Bristol Bay and the ocean side of the Kudiakof Islands, closing the entrances to Izembek Lagoon, for approximately 64 kilometers (40 miles) to a point in the waters of Bristol Bay at longitude 162°30' W, and at a distance of 400 meters (1/4 mile) perpendicular to the line of mean high tide;

Thence south along the line of longitude 162°30' W, to the line of mean high tide and the True Point of Beginning.

Oahu elepaio (Chasiempis sandwichensis ibidis)

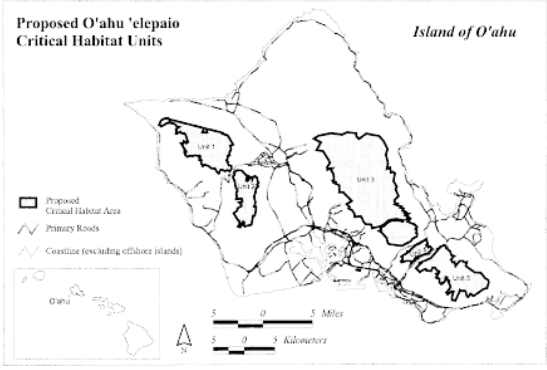
(1) Critical Habitat Units are depicted for the City and County of Honolulu on the maps below.

(2)(i) Within these areas, the primary constituent elements required by the Oahu elepaio are those habitat components that are essential for the biological needs of foraging, sheltering, roosting, nesting, and rearing of young. These primary constituent elements are undeveloped wet, mesic, and dry forest habitats with a generally continuous canopy and a dense understory and that are composed of native and/or introduced plant species. Such forests are found in valleys and on mountain slopes and ridges. The primary constituent elements associated with the biological needs of dispersal and genetic exchange are undeveloped wet or dry shrub land and wet or dry cliff habitats composed of native and/or introduced plant species that separate elepaio populations. Elepaio may not establish territories in shrub or cliff habitats and may use them only transiently, but undeveloped areas containing these habitats are important for linking populations by providing dispersal corridors and promoting genetic exchange among populations.

(ii) Within the forests and shrub lands providing the primary constituent elements, plant species composition varies with rainfall, elevation, and degree of habitat disturbance, and plant species occur in a variety of assemblages. Common native and introduced species within these plant assemblages include, but are not limited to, ohia (*Metrosideros polymorpha*), koa (*Acacia koa*), papala kepau (*Pisonia umbellifera*), lama (*Diospyros sandwicensis*), mamaki (*Pipturus albidus*), kaulu (*Sapindus oahuensis*), hame (*Antidesma platyphyllum*), alaa (*Pouteria sandwicensis*), aalii (*Dodonaea viscosa*), naupaka kuahiwi (*Scaevola spp.*), pukiawe (*Styphelia tameiameiae*), uluhe (*Dicranopteris linearis*), guava (*Psidium guajava*), strawberry guava (*P. cattleianum*), mango (*Mangifera indica*), kukui (*Aleurites moluccana*), christmasberry (*Schinus terebinthifolius*), ti (*Cordyline terminalis*), rose apple (*Syzygium jambos*), mountain apple (*S. malaccense*), and Java plum (*S. cumini*).

(3) Existing developed features and structures, such as buildings, roads, aqueducts, antennas, water tanks, agricultural fields, paved areas, lawns, and other urban landscaped areas, that do not contain one or more of the primary constituent elements, are not included as critical habitat.

(4) Map of critical habitat units for the Oahu elepaio follows.



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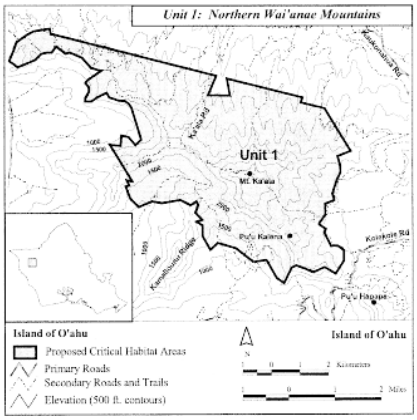
(5) Unit 1 (4,454 ha; 11,005 ac)

(i) Unit 1 consists of 94 boundary points with the following coordinates in UTM Zone 4 with the units in meters using North American Datum of 1983 (NAD83): 588465, 2375750; 587846, 2376228; 587213, 2376416; 586946, 2376176; 586675, 2376658; 586672, 2377028; 586468, 2377154; 586672, 2377219; 586430, 2377462; 586532, 2377741; 586464, 2377863; 586261, 2377727; 585895, 2377915; 585242, 2377801; 584907, 2377864; 584433, 2377671; 584139, 2377961; 583974, 2378388; 584099, 2378414; 584016, 2378599; 584207, 2378563; 583425, 2379849; 583801, 2379814; 583831, 2380171; 584075, 2380122; 584324, 2379841; 584526, 2380031; 584181, 2381150; 584078, 2381295; 583938, 2381385; 583738, 2381388; 583402, 2381505; 583315, 2381668; 582998, 2381518; 582785, 2381368; 582566, 2381369; 582561, 2381485; 582694, 2381702; 582685, 2381865; 582566, 2382005; 582651, 2382112; 583122, 2382432; 582768, 2382529; 582445, 2382889; 581998, 2383075; 581881, 2383019; 581546, 2383276; 581387, 2383071; 581221, 2383069; 581023, 2383019; 580811, 2382809; 580192, 2382557; 580070, 2382662; 579894, 2382772; 580060, 2383144; 580151, 2383425; 580526, 2383690; 580750, 2383802; 581314, 2383901; 581353, 2383719; 587168, 2382252; 586876, 2381574; 587645, 2381564; 587539, 2382159; 590187, 2381495; 590131, 2381324; 590955, 2381123; 591864, 2379621; 591408, 2379439; 591501, 2379125; 591510, 2378867; 591393, 2378631; 591229, 2378138; 591294, 2377905; 590979, 2377773; 590984, 2377387; 590770, 2377109; 590760, 2377063; 590999, 2376896; 590945, 2376772; 591176, 2376297; 591268, 2376320; 591426, 2376305; 591624, 2376158; 591620, 2375793; 591334, 2375340; 590950, 2375570; 590580, 2375400; 589956, 2375632; 589799, 2375555; 589539, 2375014; 589285, 2375190; 588919, 2375824; 588465, 2375750.

(ii) Map of Unit 1 follows.



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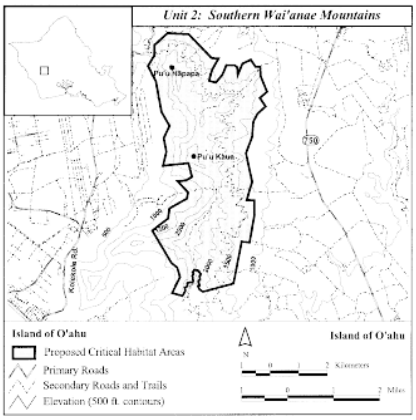
(6) Unit 2 (2,422 ha; 5,985 ac)

(i) Unit 2 consists of 78 boundary points with the following coordinates in UTM Zone 4 with the units in meters using North American Datum of 1983 (NAD83): 592645, 2367498; 591970, 2368628; 592530, 2369066; 592575, 2369415; 593190, 2369759; 593231, 2369971; 592864, 2370362; 593156, 2370385; 593368, 2370513; 593249, 2370991; 592348, 2370899; 592469, 2371381; 592374, 2371861; 592582, 2372284; 592295, 2372774; 592100, 2373836; 591816, 2374384; 592053, 2374764; 592045, 2375115; 592504, 2375529; 593245, 2375497; 594056, 2374659; 594299, 2374644; 594081, 2374253; 593970, 2373860; 594207, 2373793; 594437, 2374070; 594578, 2374412; 594867, 2374406; 594965, 2374331; 594978, 2374067; 595140, 2374463; 595431, 2374602; 595604, 2374352; 595772, 2374351; 595782, 2374020; 596005, 2373471; 595754, 2373256; 595960, 2372960; 595678, 2372709; 595531, 2372434; 595485, 2371908; 595272, 2371337; 595489, 2370340; 595296, 2369703; 595561, 2369694; 595565, 2369178; 595390, 2368213; 595117, 2368245; 594830, 2366778; 594015, 2366560; 593884, 2366525; 593756, 2366491; 593635, 2366570; 593574, 2366695; 593629, 2366713; 593594, 2366869; 593651, 2366917; 593639, 2367019; 593682, 2367104; 593591, 2367228; 593472, 2367265; 593388, 2367176; 593425, 2367112; 593379, 2367045; 593395, 2367010; 593413, 2366861; 593391, 2366809; 593307, 2366826; 593203, 2366792; 593207, 2366684; 593121, 2366632; 593137, 2366521; 593030, 2366348; 592668, 2366451; 592945, 2366998; 592852, 2367332; 592645, 2367498.

(ii) Map of Unit 2 follows.



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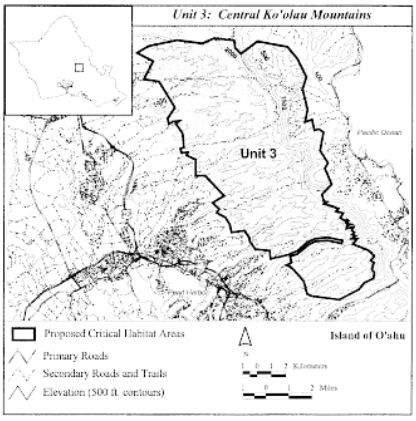
(7) Unit 3 (14,801 ha; 36,573 ac)

(i) Unit 3 consists of 108 boundary points with the following coordinates in UTM Zone 4 with the units in meters using North American Datum of 1983 (NAD83): 615481, 2366443; 614313, 2366190; 614232, 2366761; 613262, 2366836; 612845, 2367394; 612829, 2367639; 612488, 2368140; 611561, 2368027; 611448, 2368566; 611117, 2369088; 610523, 2369387; 610693, 2369643; 610226, 2370083; 611040, 2370565; 609681, 2371985; 609025, 2371951; 609034, 2373100; 608391, 2373401; 608469, 2373609; 608065, 2373567; 607941, 2373859; 608199, 2373978; 608109, 2374925; 607637, 2375635; 607869, 2375817; 607456, 2375780; 607136, 2375598; 607046, 2375977; 607565, 2376766; 606428, 2378568; 605381, 2378725; 606026, 2379972; 604900, 2380551; 605708, 2381032; 607698, 2381439; 609468, 2381214; 610319, 2381573; 611728, 2381425; 611797, 2380904; 612201, 2380506; 613364, 2381362; 615459, 2380980; 616152, 2380161; 616780, 2378903; 616513, 2378013; 616873, 2376632; 616699, 2375737; 617180, 2375933; 617356, 2375158; 617664, 2375259; 617994, 2375029; 617757, 2373739; 618311, 2372859; 618082, 2372506; 618563, 2371385; 617894, 2370668; 618022, 2370181; 618247, 2370148; 618043, 2370014; 619043, 2369685; 618878, 2369509; 619381, 2369376; 619182, 2369040; 619525, 2368805; 619611, 2368922; 619747, 2368829; 619588, 2368664; 619928, 2368585; 619650, 2368496; 619614, 2368284; 620097, 2368401; 619967, 2368174; 620164, 2368022; 620005, 2367870; 620257, 2367795; 619954, 2367590; 620341, 2367572; 620055, 2367214; 621150, 2366779; 621549, 2366388; 621302, 2366064; 621511, 2365913; 621381, 2365424; 621553, 2365265; 621489, 2364827; 620880, 2364530; 620469, 2364040; 619115, 2363338; 617176, 2363590; 616868, 2363761; 616638, 2364642; 615913, 2365439; 615777, 2365575; 615420, 2365753; 615767, 2365918; 615684, 2366361; 616156, 2366495; 616990, 2367187; 617469, 2367398; 618312, 2367466; 619282, 2367250; 619336, 2367460; 618293, 2367672; 617426, 2367594; 616876, 2367352; 616189, 2366748; 615713, 2366555; 615481, 2366443.

(ii) Map of Unit 3 follows.



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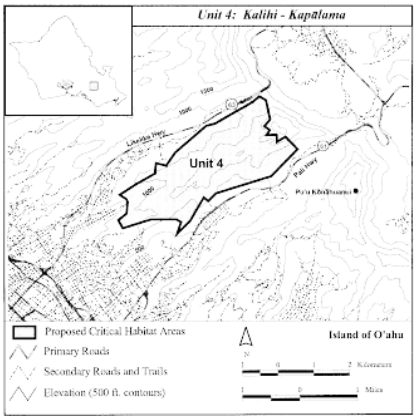
(8) Unit 4 (804 ha; 1,987 ac)

(i) Unit 4 consists of 35 boundary points with the following coordinates in UTM Zone 4 with the units in meters using North American Datum of 1983 (NAD83): 619449, 2361897; 619967, 2362184; 619999, 2362473; 620286, 2362404; 620537, 2362773; 621409, 2363520; 621660, 2363584; 622719, 2364191; 622901, 2364348; 623091, 2364242; 623209, 2363699; 623046, 2363507; 623201, 2363403; 623106, 2363264; 623391, 2363271; 623404, 2363073; 623634, 2363216; 623976, 2362864; 623238, 2362105; 621688, 2361633; 621467, 2361418; 621345, 2361518; 620954, 2360860; 620598, 2360514; 620700, 2360831; 620572, 2360908; 619869, 2360908; 619670, 2360852; 619064, 2360661; 618935, 2360886; 619170, 2361072; 619199, 2361402; 619163, 2361470; 618977, 2361595; 619449, 2361897.

(ii) Map of Unit 4 follows.



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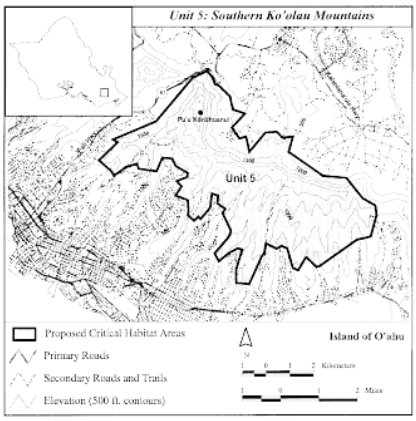
(9) Unit 5 (4,180 ha; 10,329 ac)

(i) Unit 5 consists of 78 boundary points with the following coordinates in UTM Zone 4 with the units in meters using North American Datum of 1983 (NAD83): 626915, 2356759; 626560, 2357502; 626675, 2357669; 626333, 2357906; 626359, 2358234; 626110, 2358313; 626031, 2357725; 625623, 2357254; 625538, 2357354; 625351, 2357186; 625091, 2357420; 625118, 2357617; 625085, 2358039; 624568, 2358236; 624821, 2358624; 624612, 2358850; 625059, 2359019; 625083, 2359182; 624571, 2359489; 624430, 2359798; 624013, 2359828; 623768, 2359261; 623004, 2359366; 622941, 2359584; 622499, 2359435; 621968, 2359088; 621864, 2359256; 621335, 2359722; 622127, 2360488; 621920, 2360603; 623746, 2361359; 625281, 2363179; 625896, 2363475; 626109, 2363219; 626146, 2363135; 626234, 2362910; 626392, 2362857; 626871, 2362399; 626986, 2361859; 627500, 2361686; 626946, 2361095; 627268, 2360638; 627548, 2360727; 627690, 2360077; 628361, 2360895; 628839, 2360922; 629079, 2360676; 629519, 2360722; 629341, 2360070; 630776, 2359069; 631754, 2358982; 632440, 2358108; 632959, 2357815; 633019, 2357425; 632769, 2356517; 632191, 2356385; 630620, 2355286; 630491, 2355266; 630104, 2355644; 630041, 2355624; 629732, 2355117; 629510, 2355214; 629279, 2356032; 629033, 2356130; 628836, 2356015; 628378, 2356236; 628317, 2355841; 628209, 2355703; 627673, 2354542; 627125, 2354591; 627125, 2355143; 627381, 2355990; 627200, 2356033; 626832, 2355846; 626399, 2355498; 626215, 2355823; 626806, 2356493; 626915, 2356759.

(ii) Map of Unit 5 follows.



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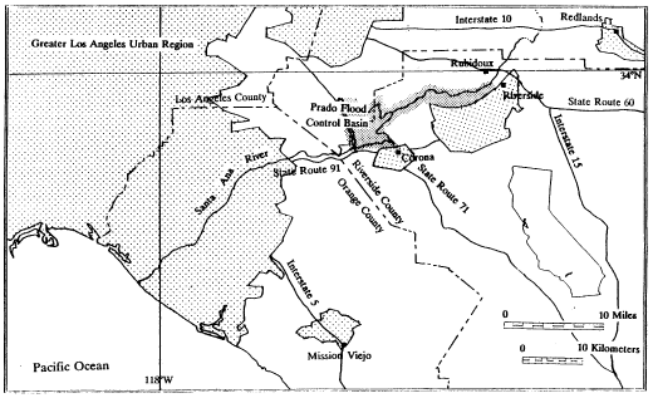
Southwestern Willow Flycatcher (Empidonax traillii extimus)

California: Areas of land and water as follows:

1. Santa Ana River, Riverside and San Bernardino Counties: from Rio Road (T2S, R5W, no surveyed section but at 34°59'00" North, 117°25'15" West) downstream to Prado Flood Control Basin Dam (T3S, R7W, Section 20). Approximately 25 km (16 miles). The boundaries include areas within 100 meters of the edge of areas with surface water during the May to September breeding season and within 100 meters of areas where such surface water no longer exists owing to habitat degradation but may be recovered with habitat rehabilitation where thickets of riparian trees and shrubs occur or may become established as a result of natural floodplain processes or rehabilitation.



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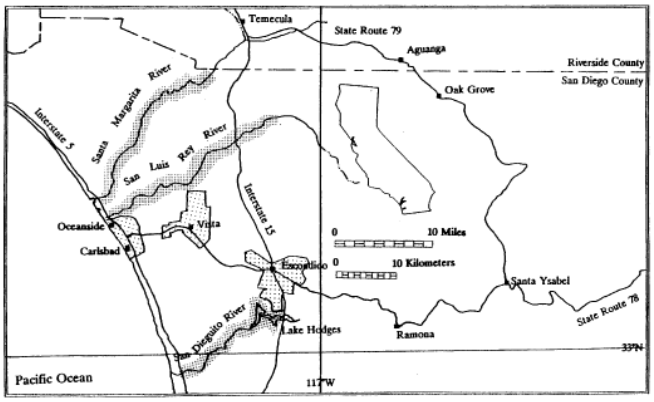
2. Santa Margarita River, San Diego County: from the unnamed trail at T8S, R3W, Section 34) downstream to northbound Interstate 5 (T11S, R5W, Section 19). Approximately 33 km (20 miles). The boundaries include areas within 100 meters of the edge of areas with surface water during the May to September breeding season and within 100 meters of areas where such surface water no longer exists owing to habitat degradation but may be recovered with habitat rehabilitation where thickets of riparian trees and shrubs occur or may become established as a result of natural floodplain processes or rehabilitation.

3. San Luis Rey River, San Diego County: from Mission Road (T9S, R2W, Section 27) downstream to northbound Interstate 5 (T11S, R5W, Section 22). Approximately 39 km (24 miles). The boundaries include areas within 100 meters of the edge of areas with surface water during the May to September breeding season and within 100 meters of areas where such surface water no longer exists owing to habitat degradation but may be recovered with habitat rehabilitation where thickets of riparian trees and shrubs occur or may become established as a result of natural floodplain processes or rehabilitation.

4. San Diegito River, San Diego County: from southbound Interstate 15 (T13S, R2W, no section surveyed, but at 33°3'45" North, 117°4'00" West) downstream to northbound Interstate 5 (T14S, R4W, Section 12). Approximately 24 km (15 miles). The boundaries include areas within 100 meters of the edge of areas with surface water during the May to September breeding season and within 100 meters of areas where such surface water no longer exists owing to habitat degradation but may be recovered with habitat rehabilitation where thickets of riparian trees and shrubs occur or may become established as a result of natural floodplain processes or rehabilitation.



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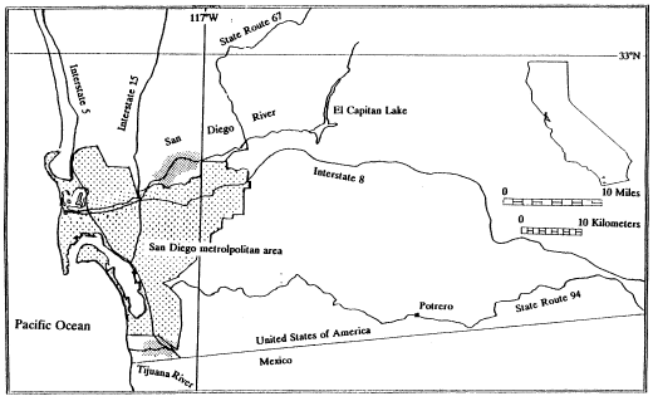
5. San Diego River, San Diego County: from Carlton Hills Boulevard (T15S, R1W, no section surveyed, but at 32°50'45" North, 117°59'30" West) downstream to the Second San Diego Aqueduct T15S, R2W, no section surveyed, but at 32°49'30" North, 117°3'45" West). Approximately 8 km (5.5 miles). The boundaries include areas within 100 meters of the edge of areas with surface water during the May to September breeding season and within 100 meters of areas where such surface water no longer exists owing to habitat degradation but may be recovered with habitat rehabilitation where thickets of riparian trees and shrubs occur or may become established as a result of natural floodplain processes or rehabilitation.

6. Tijuana River, San Diego County: from Larsen Field (T19S, R2W, Section 1) downstream to the windmill at T19S, R2W, Section 4. Approximately 5.5 km (3.3 miles). The boundaries include areas within 100 meters of the edge of areas with surface water during the May to September breeding season and within 100 meters of areas where such surface water no longer exists owing to habitat degradation but may be recovered with habitat rehabilitation where thickets of riparian trees and shrubs occur or may become established as a result of natural floodplain processes or rehabilitation.



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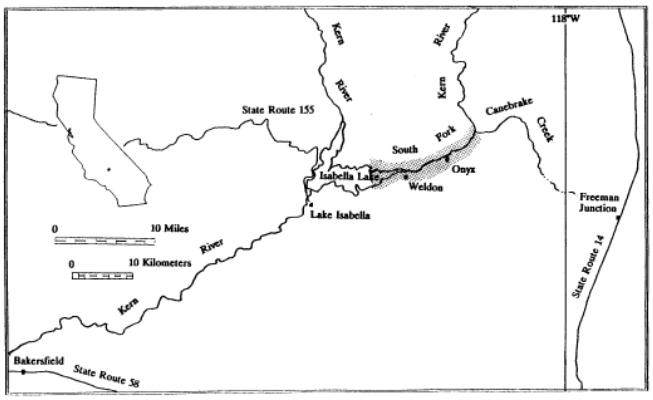
7. South Fork of the Kern River, Kern County: from the confluence of Canebrake Creek (T25S, R36E, Section 30) downstream to a line running north-south between Lyme Dyke and Lime Point encompassing the South Fork Wildlife Area at the eastern end of Lake Isabella (T26S, R34E, Sections 13 and 14). Approximately 26 km (16 miles). The boundaries include areas within 100 meters of the edge of areas with surface water during the May to September breeding season and within 100 meters of areas where such surface water no longer exists owing to habitat degradation but may be recovered with habitat rehabilitation where thickets of riparian trees and shrubs occur or may become established as a result of natural floodplain processes or rehabilitation.



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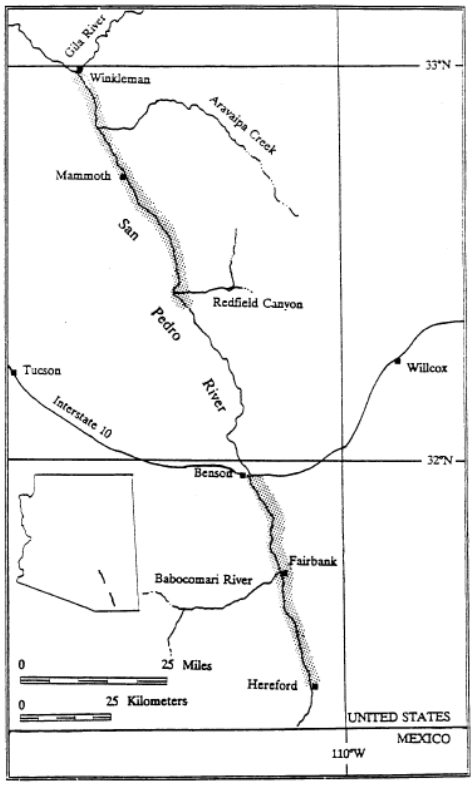
Arizona: Areas of land and water as follows:

1. San Pedro River, Cochise County: from the Hereford Bridge (T23S, R22E, Section 9), downstream to eastbound Interstate 10 bridge at Benson (T17S R20E, Section 11). Approximately 87 km (54 miles). The boundaries include areas within 100 meters of the edge of areas with surface water during the May to September breeding season and within 100 meters of areas where such surface water no longer exists owing to habitat degradation but may be recovered with habitat rehabilitation where thickets of riparian trees and shrubs occur or may become established as a result of natural floodplain processes or rehabilitation.

2. San Pedro River, Cochise, Pima and Pinal Counties: from the Gaging Station near Aguaja Canyon (T12S, R18E, Section 19), downstream to the confluence with the Gila River (T5S, R15E, Section 23). Approximately 106 km (66 miles). The boundaries include areas within 100 meters of the edge of areas with surface water during the May to September breeding season and within 100 meters of areas where such surface water no longer exists owing to habitat degradation but may be recovered with habitat rehabilitation where thickets of riparian trees and shrubs occur or may become established as a result of natural floodplain processes or rehabilitation.



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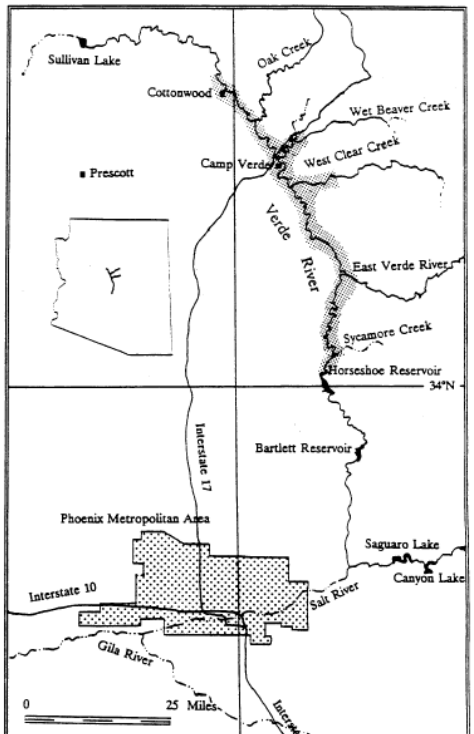
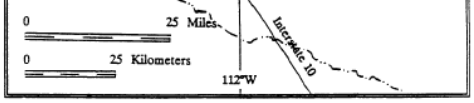
3. Verde River, Yavapai and Gila Counties: from Sob Canyon (T17N, R3E, Section 29) to its inflow into Horseshoe Reservoir (T8N, R6E, Section 15), including Tavasci Marsh and Ister Flat. Approximately 145 km (90 miles). The boundaries include areas within 100 meters of the edge of areas with surface water during the May to September breeding season and within 100 meters of areas where such surface water no longer exists owing to habitat degradation but may be recovered with habitat rehabilitation where thickets of riparian trees and shrubs occur or may become established as a result of natural floodplain processes or rehabilitation.

4. Wet Beaver Creek, Yavapai County: from the gauging station upstream of the Beaver Creek Ranger Station (T15N, R6E, Section 24), downstream to the confluence of Beaver Creek and the Verde River (T14N, R5E, Section 30). Approximately 32 km (20 miles). The boundaries include areas within 100 meters of the edge of areas with surface water during the May to September breeding season and within 100 meters of areas where such surface water no longer exists owing to habitat degradation but may be recovered with habitat rehabilitation where thickets of riparian trees and shrubs occur or may become established as a result of natural floodplain processes or rehabilitation.

5. West Clear Creek, Yavapai County: from the section line dividing sections 18 and 17 in T13N, R6E downstream to the confluence with the Verde River (T13N, R5E, Section 17). Approximately 14 km (9 miles). The boundaries include areas within 100 meters of the edge of areas with surface water during the May to September breeding season and within 100 meters of areas where such surface water no longer exists owing to habitat degradation but may be recovered with habitat rehabilitation where thickets of riparian trees and shrubs occur or may become established as a result of natural floodplain processes or rehabilitation.





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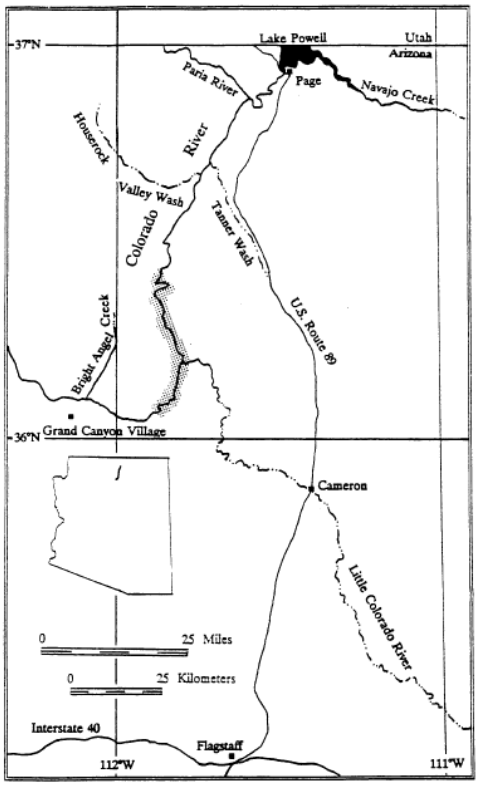
6. Colorado River, Coconino County: from river mile 39 (T35N, R5E, Section 16) downstream to river mile 71.5 (T31N, R5E Section 8). (River mile 0 = Lee's Ferry). Approximately 52 km (32 miles). The boundaries include areas within 100 meters of the edge of areas with surface water during the May to September breeding season and within 100 meters of areas where such surface water no longer exists owing to habitat degradation but may be recovered with habitat rehabilitation where thickets of riparian trees and shrubs occur or may become established as a result of natural floodplain processes or rehabilitation.



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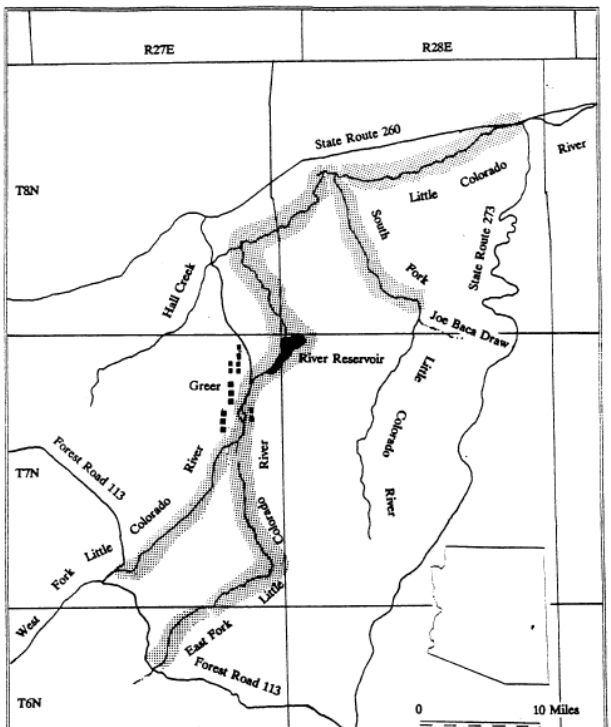
7. Little Colorado River, and the West, East, and South Forks of the Little Colorado River, Apache County: from the diversion ditch at T8N, R28E, Section 16, upstream to Forest Road 113 on the West Fork (T7N, R27E, Section 33), upstream to Forest Road 113 on the East Fork (T6N, R27E, Section 10), and upstream to Joe Baca Draw on the South Fork (T8N, R28E, Section 34). Approximately 48 km (30 miles). The boundaries include areas within 100 meters of the edge of areas with surface water during the May to September breeding season and within 100 meters of areas where such surface water no longer exists owing to habitat degradation but may be recovered with habitat rehabilitation where thickets of riparian trees and shrubs occur or may become established as a result of natural floodplain processes or rehabilitation.



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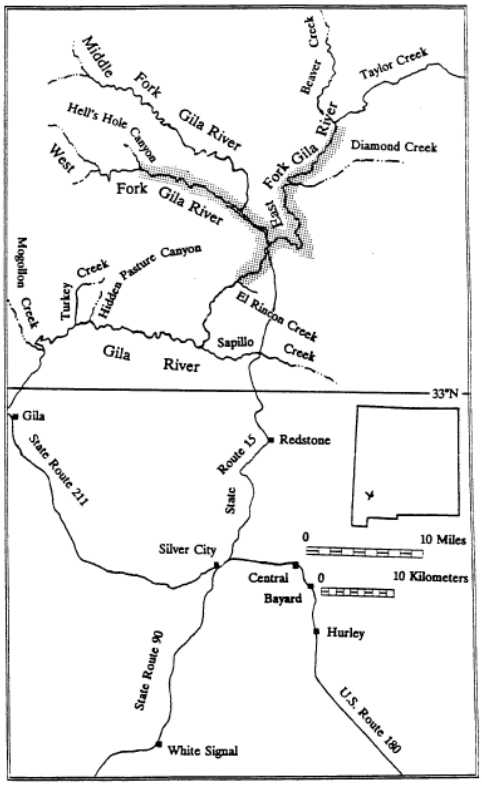
New Mexico: Areas of land and water as follows:

1. Gila River and the East and West Forks of the Gila River, Catron and Grant Counties: from El Rincon on the Gila River (T13S, R14W, S36) upstream to Hell's Hole Canyon on the West Fork of the Gila River T12S, R15W, S4), and upstream to the confluence of Taylor Creek and Beaver Creek on the East Fork of the Gila River (T11S, R12W, S17). Approximately 63 km (39 miles). The boundaries include areas within 100 meters of the edge of areas with surface water during the May to September breeding season and within 100 meters of areas where such surface water no longer exists owing to habitat degradation but may be recovered with habitat rehabilitation where thickets of riparian trees and shrubs occur or may become established as a result of natural floodplain processes or rehabilitation.



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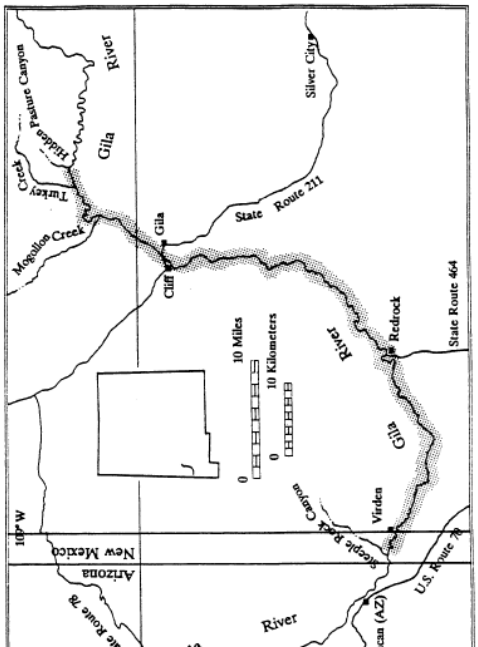
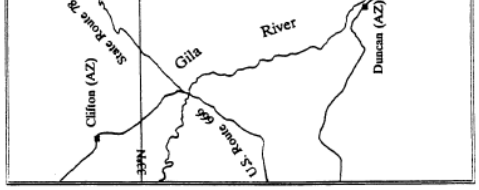
2. Gila River, Grant and Hidalgo Counties: from the confluence of Hidden Pasture Canyon (T14S, R16W, Section 14) downstream to the confluence of Steeple Rock Canyon (T18S, R21W, Section 33). Approximately 90 km (56 miles). The boundaries include areas within 100 meters of the edge of areas with surface water during the May to September breeding season and within 100 meters of areas where such surface water no longer exists owing to habitat degradation but may be recovered with habitat rehabilitation where thickets of riparian trees and shrubs occur or may become established as a result of natural floodplain processes or rehabilitation.





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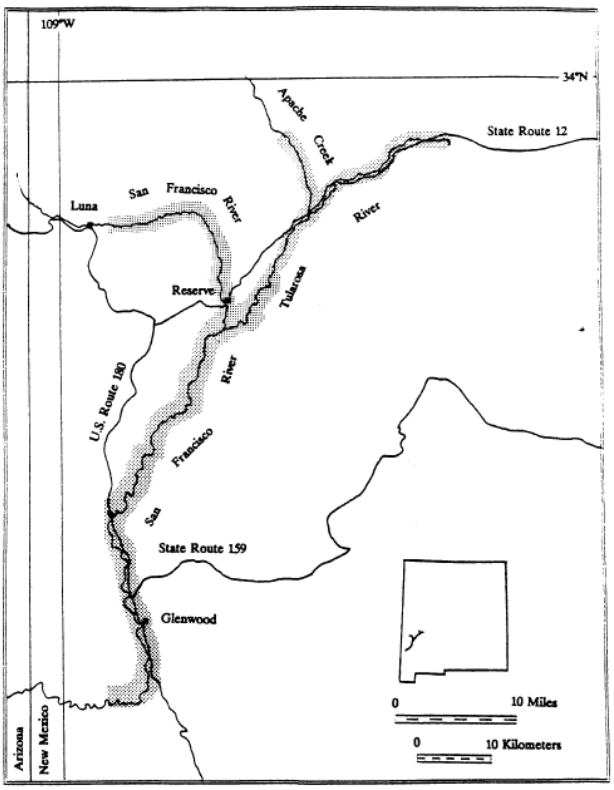
3. San Francisco River, Catron County: from the confluence of Trail Canyon (T6S, R20W, Section 4) downstream to San Francisco Hot Springs, near the confluence with Box Canyon (T12S, R20W, Section 23). Approximately 105 km (65 miles). The boundaries include areas within 100 meters of the edge of areas with surface water during the May to September breeding season and within 100 meters of areas where such surface water no longer exists owing to habitat degradation but may be recovered with habitat rehabilitation where thickets of riparian trees and shrubs occur or may become established as a result of natural floodplain processes or rehabilitation.

4. Tularosa River and Apache Creek, Catron County: from the confluence of the Tularosa and San Francisco Rivers (T7S, R19W, Section 23) upstream, to the source of the Tularosa River near the continental divide (T4S, R15W, Section 33), and upstream on Apache Creek to the confluence with Whiskey Creek (T4S, R18W, Section 25). Approximately 60 km (37 miles). The boundaries include areas within 100 meters of the edge of areas with surface water during the May to September breeding season and within 100 meters of areas where such surface water no longer exists owing to habitat degradation but may be recovered with habitat rehabilitation where thickets of riparian trees and shrubs occur or may become established as a result of natural floodplain processes or rehabilitation.



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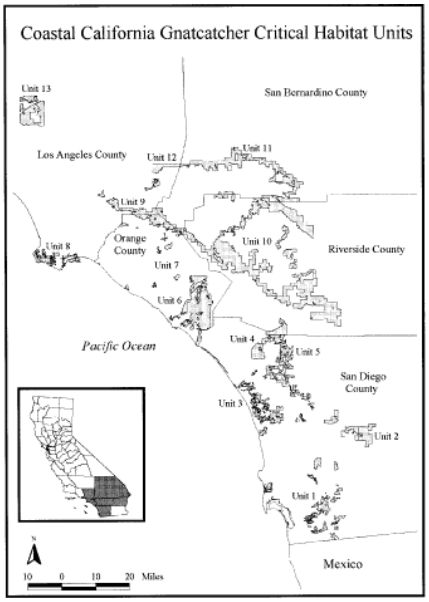
Coastal California gnatcatcher (Polioptila californica californica)

1. Critical Habitat Units are depicted for Los Angeles, Orange, Riverside, San Bernardino, and San Diego Counties, California, on the maps below.



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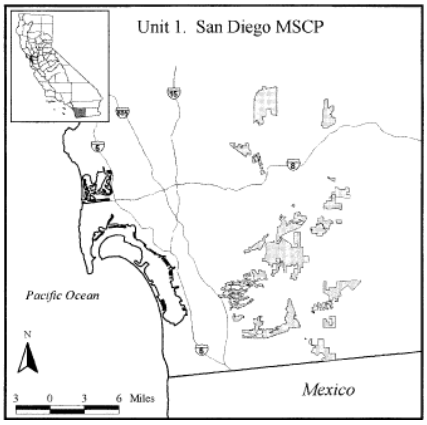
2. Within these areas, the primary constituent elements for the gnatcatcher are those habitat components that are essential for the primary biological needs of foraging, nesting, rearing of young, intra-specific communication, roosting, dispersal, genetic exchange, or sheltering (Atwood 1990). Primary constituent elements are provided in undeveloped areas that support various types of sage scrub or support chaparral, grassland, and riparian habitats where they occur proximal to sage scrub and where they may be utilized for biological needs such as breeding and foraging (Atwood *et al.* 1998, Campbell et al. 1998). Primary constituent elements associated with the biological needs of dispersal are also found in undeveloped areas that provide linkage between or within larger core areas, including open space and disturbed areas that may receive only periodic use.

Primary constituent elements include, but are not limited to, the following plant communities in their natural state or those that have been recently disturbed (e.g., fire or grubbing): Venturan coastal sage scrub, Diegan coastal sage scrub, maritime succulent scrub, Riversidean sage scrub, Riversidean alluvial fan scrub, southern coastal bluff scrub, and coastal sage-chaparral scrub (Holland 1986). Based upon dominant species, these communities have been further divided into series such as black sage, brittlebush, California buckwheat, California buckwheat-white sage, California encelia, California sagebrush, California sagebrush-black sage, California sagebrush-California buckwheat, coast prickly-pear, mixed sage, purple sage, scalebroom, and white sage (Sawyer and Keeler-Wolf 1995). Dominant species within these plant communities include California sagebrush (*Artemisia californica*), buckwheats (*Eriogonum fasciculatum* and *E. cinereum*), encelias (*Encelia californica* and *E. farinosa*), and various sages (commonly *Salvia mellifera*, *S. apiana*, and *S. leucophylla*). Other commonly occurring plants include coast goldenbush (*Isocoma menziesii*), bush monkeyflower (*Mimulus aurantiacus*), Mexican elderberry (*Sambucus mexicana*), bladderpod (*Isomeris arborea*), deerweed (*Lotus scoparius*), chaparral mallow (*Malacothamnus fasciculatum*), and laurel sumac (*Malosma laurina*), and several species of Rhus (*R. integrifolia*, *R. ovata*, and *R. trilobata*). Succulent species, such as boxthorn (*Lycium* spp.), cliff spurge (*Euphorbia misera*), jojoba (*Simmondsia chinensis*), and various species of cacti (*Opuntia littoralis*, *O. prolifera*, and *Ferocactus viridescens*), and live-forever (*Dudleya* spp.), are represented in maritime succulent scrub, coast prickly-pear scrub, and southern coastal bluff scrubs.

3. Critical habitat does not include non-Federal lands covered by a legally operative incidental take permit for the coastal California gnatcatcher issued under section 10(a)(1)(B) of the Act on or before October 24, 2000.

4. Critical habitat does not include existing features and structures, such as buildings, roads, aqueducts, railroads, airports, other paved areas, lawns, and other urban landscaped areas not containing one or more of the primary constituent elements.



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Map Unit 1: San Diego County Multiple Species Conservation Program (MSCP), San Diego County, California. From USGS 1:100,000 quadrangle maps San Diego (1980) and El Cajon (1982), California, lands defined by major amendment areas in the MSCP within T. 17 S., R. 01 W., San Bernardino Principle Meridian, secs. 1, 12–14, and 23–25; T. 17 S., R. 01 E., San Bernardino Principle Meridian, secs. 18, 19, and 34; T. 18 S., R. 01 E., San Bernardino Principle Meridian, secs. 3–5, 8, 9, 16, 19, 28–30, 32, and 33; and

lands west of UTM NAD27 (easting, northing) x coordinate 515200 within the Jamul Land Grant.

Lands defined by the boundaries of the Otay-Sweetwater Unit of the San Diego National Wildlife Refuge Complex as mapped on September 1, 2000, and adjacent major amendment areas; and adjacent land bounded by the following UTM NAD27 coordinates (E, N): 504100, 3618800; 504200, 3618800; 504200, 3618300; 504100, 3618300; 504100, 3617900; 503500, 3617900; 503500, 3618000; 503300, 3618000; 503300, 3617900; 503000, 3617900; 503000, 3618000; 502400, 3618000; 502400, 3617900; 502300, 3617900; 502300, 3617800; 502000, 3617800; 502000, 3618100; 502100, 3618100; 502100, 3618300; 502200, 3618300; 502200, 3618400; 502700, 3618400; 502700, 3618500; 503100, 3618500; 503100, 3618600; 503200, 3618600; 503200, 3618400; 503500, 3618400; 503500, 3618300; 503700, 3618300; 503700, 3618200; 503800, 3618200; 503800, 3618300; 503900, 3618300; 503900, 3618400; 504000, 3618400; 504000, 3618600; 504100, 3618600; 504100, 3618800; and 504000, 3616300; 504500, 3616300; 504500, 3616200; 504900, 3616200; 504900, 3615400; 505600, 3615400; 505600, 3615800; 506500, 3615800; 506500, 3615500; 506300, 3615500; 506300, 3615300; 506200, 3615300; 506200, 3615200; 506100, 3615200; 506100, 3615100; 505900, 3615100; 505900, 3615300; 505600, 3615300; 505600, 3615100; 505500, 3615100; 505500, 3615000; 505300, 3615000; 505300, 3615100; 505100, 3615100; 505100, 3615200; 505000, 3615200; 505000, 3615100; 504900, 3615100; 504900, 3614100; 504600, 3614100; 504600, 3614600; 504500, 3614600; 504500, 3615600; 504400, 3615600; 504400, 3615800; 504200, 3615800; 504200, 3615600; 504100, 3615600; 504100, 3615100; 504000, 3615100; 504000, 3615000; 503900, 3615000; 503900, 3614900; 503800, 3614900; 503800, 3614800; 503900, 3614800; 503900, 3614600; 503800, 3614600; 503800, 3614400; 503700, 3614400; 503700, 3614200; 503400, 3614200; 503400, 3614000; 503200, 3614000; 503200, 3613600; 502900, 3613600; 502900, 3613800; 502800, 3613800; 502800, 3614000; 502900, 3614000; 502900, 3614100; 503000, 3614100; 503000, 3614200; 502900, 3614200; 502900, 3614500; 503000, 3614500; 503000, 3614600; 503600, 3614600; 503600, 3615300; 503700, 3615300; 503700, 3615400; 503800, 3615400; 503800, 3615500; 504000, 3615500; 504000, 3616300.

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Land bounded by the following UTM NAD27 coordinates (E, N): 498500, 3610800; 498500, 3610600; 499200, 3610600; 499200, 3610700; 499300, 3610700; 499300, 3610800; 499600, 3610800; 499600, 3610700; 499700, 3610700; 499700, 3610600; 499400, 3610600; 499400, 3610500; 499300, 3610500; 499300, 3610400; 499000, 3610400; 499000, 3610300; 498800, 3610300; 498800, 3610400; 498600, 3610400; 498600, 3610300; 498500, 3610300; 498500, 3610200; 498400, 3610200; 498400, 3610300; 498300, 3610300; 498300, 3610200; 498200, 3610200; 498200, 3610100; 497900, 3610100; 497900, 3610400; 497600, 3610400; 497600, 3610500; 497400, 3610500; 497400, 3610600; 496700, 3610600; 496700, 3610800; 496600, 3610800; 496600, 3610700; 496200, 3610700; 496200, 3610800; 496100, 3610800; 496100, 3610700; 495800, 3610700; 495800, 3610600; 495700, 3610600; 495700, 3610700; 495500, 3610700; 495500, 3610800; 495400, 3610800; 495400, 3611000; 496000, 3611000; 496000, 3611300; 496100, 3611300; 496100, 3611400; 496200, 3611400; 496200, 3611500; 496300, 3611500; 496300, 3611600; 496400, 3611600; 496400, 3611800; 496300, 3611800; 496300, 3611900; 496200, 3611900; 496200, 3611800; 495700, 3611800; 495700, 3612000; 495900, 3612000; 495900, 3612100; 496200, 3612100; 496200, 3612200; 496500, 3612200; 496500, 3612400; 496400, 3612400; 496400, 3612600; 496300, 3612600; 496300, 3612700; 496600, 3612700; 496600, 3612800; 497100, 3612800; 497100, 3613000; 497500, 3613000; 497500, 3612900; 497600, 3612900; 497600, 3612800; 498400, 3612800; 498400, 3612700; 498500, 3612700; 498500, 3612900; 498300, 3612900; 498300, 3613000; 498000, 3613000; 498000, 3613100; 498600, 3613100; 498600, 3613000; 498700, 3613000; 498700, 3613100; 499000, 3613100; 499000, 3613000; 499400, 3613000; 499400, 3613100; 499100, 3613100; 499100, 3613300; 499400, 3613300; 499400, 3613200; 499700, 3613200; 499700, 3613300; 499900, 3613300; 499900, 3613200; 499800, 3613200; 499800, 3613100; 500000, 3613100; 500000, 3613000; 500200, 3613000; 500200, 3612900; 500300, 3612900; 500300, 3613000; 500600, 3613000; 500600, 3612900; 500500, 3612900; 500500, 3612800; 500300, 3612800; 500300, 3612700; 500500, 3612700; 500500, 3612600; 500700, 3612600; 500700, 3612500; 501100, 3612500; 501100, 3612600; 501500, 3612600; 501500, 3612400; 501600, 3612400; 501600, 3612300; 501800, 3612300; 501800, 3612100; 501600, 3612100; 501600, 3612200; 500900, 3612200; 500900, 3612100; 500600, 3612100; 500600, 3612200; 500500, 3612200; 500500, 3612300; 500200, 3612300; 500200, 3612500; 500100, 3612500; 500100, 3612400; 500000, 3612400; 500000, 3612200; 499800, 3612200; 499800, 3612000; 499600, 3612000; 499600, 3612300; 498900, 3612300; 498900, 3612200; 498800, 3612200; 498800, 3612100; 498600, 3612100; 498600, 3612200; 498500, 3612200; 498500, 3612300; 498400, 3612300; 498400, 3612500; 498300, 3612500; 498300, 3612400; 498200, 3612400; 498200, 3612500; 497900, 3612500; 497900, 3612400; 497300, 3612400; 497300, 3612500; 496800, 3612500; 496800, 3612400; 497100, 3612400; 497100, 3612300; 497200, 3612300; 497200, 3612000; 497300, 3612000; 497300, 3611900; 496900, 3611900; 496900, 3611800; 496700, 3611800; 496700, 3611600; 496800, 3611600; 496800, 3611500; 496900, 3611500; 496900, 3611700; 497200, 3611700; 497200, 3611800; 497500, 3611800; 497500, 3611900; 497700, 3611900; 497700, 3611800; 497800, 3611800; 497800, 3611700; 497900, 3611700; 497900, 3611800; 498400, 3611800; 498400, 3611900; 498800, 3611900; 498800, 3611800; 499000, 3611800; 499000, 3611700; 499100, 3611700; 499100, 3611600; 499200, 3611600; 499200, 3611800; 499300, 3611800; 499300, 3611900; 499500, 3611900; 499500, 3611600; 499300, 3611600; 499300, 3611400; 499000, 3611400; 499000, 3611500; 498500, 3611500; 498500, 3611400; 498000, 3611400; 498000, 3611300; 497900, 3611300; 497900, 3611200; 498300, 3611200; 498300, 3611300; 498600, 3611300; 498600, 3611200; 498900, 3611200; 498900, 3610900; 498700, 3610900; 498700, 3610800; 498500, 3610800; excluding land bounded by 499000, 3612700; 498900, 3612700; 498900, 3612600; 499000, 3612600; 499000, 3612700; land bounded by 497300, 3612500; 497400, 3612500; 497400, 3612600; 497500, 3612600; 497500, 3612700; 497400, 3612700; 497400, 3612800; 497300, 3612800; 497300, 3612500; land bounded by 496000, 3611000; 496000, 3610900; 496400, 3610900; 496400, 3611000; 496000, 3611000; land bounded by 497100, 3610900; 497100, 3611000; 497000, 3611000; 497000, 3611100; 497200, 3611100; 497200, 3611200; 497400, 3611200; 497400, 3611100; 497500, 3611100; 497500, 3611200; 497700, 3611200; 497700, 3611300; 497600, 3611300; 497600, 3611400; 497300, 3611400; 497300, 3611300; 497000, 3611300; 497000, 3611200; 496900, 3611200; 496900, 3611100; 496800, 3611100; 496800, 3611000; 496900, 3611000; 496900, 3610900; 497100, 3610900; land bounded by 499000, 3612700; 499100, 3612700; 499100, 3612800; 499000, 3612800; 499000, 3612700; land bounded by 498500, 3610800; 498500, 3610900; 498600, 3610900; 498600,

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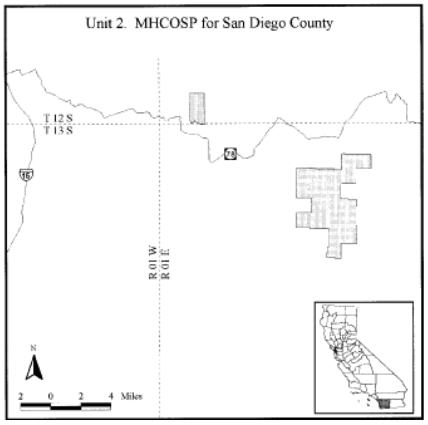
Land bounded by the following UTM NAD27 coordinates (E, N): 496900, 3610500; 497100, 3610500; 497100, 3610000; 497200, 3610000; 497200, 3609800; 497600, 3609800; 497600, 3610100; 497500, 3610100; 497500, 3610200; 497700, 3610200; 497700, 3610100; 497800, 3610100; 497800, 3610000; 497900, 3610000; 497900, 3609900; 498000, 3609900; 498000, 3610000; 498200, 3610000; 498200, 3609800; 498100, 3609800; 498100, 3609700; 498400, 3609700; 498400, 3609600; 498600, 3609600; 498600, 3609700; 498900, 3609700; 498900, 3609800; 499100, 3609800; 499100, 3609700; 499300, 3609700; 499300, 3609600; 499200, 3609600; 499200, 3609500; 499000, 3609500; 499000, 3609400; 498600, 3609400; 498600, 3609300; 498200, 3609300; 498200, 3609100; 498000, 3609100; 498000, 3609200; 497800, 3609200; 497800, 3609300; 497600, 3609300; 497600, 3609400; 497500, 3609400; 497500, 3609300; 497400, 3609300; 497400, 3609200; 497200, 3609200; 497200, 3609400; 497300, 3609400; 497300, 3609600; 497100, 3609600; 497100, 3609800; 497000, 3609800; 497000, 3609900; 496900, 3609900; 496900, 3610000; 496800, 3610000; 496800, 3610100; 496900, 3610100; 496900, 3610500; excluding land bounded by 497700, 3609700; 497700, 3609600; 497900, 3609600; 497900, 3609500; 498000, 3609500; 498000, 3609700; 497700, 3609700.

Land bounded by the following UTM NAD27 coordinates (E, N): 500000, 3610500; 500200, 3610500; 500200, 3610400; 500300, 3610400; 500300, 3610300; 500200, 3610300; 500200, 3610200; 500100, 3610200; 500100, 3610100; 500000, 3610100; 500000, 3610000; 499900, 3610000; 499900, 3609900; 499700, 3609900; 499700, 3609800; 499600, 3609800; 499600, 3609700; 499400, 3609700; 499400, 3609900; 499500, 3609900; 499500, 3610000; 499600, 3610000; 499600, 3610100; 499800, 3610100; 499800, 3610300; 499900, 3610300; 499900, 3610200; 500000, 3610200; 500000, 3610500.

Land bounded by the following UTM NAD27 coordinates (E, N): 505300, 3610500; 505500, 3610500; 505500, 3610200; 505600, 3610200; 505600, 3609900; 505700, 3609900; 505700, 3609600; 505800, 3609600; 505800, 3609300; 505900, 3609300; 505900, 3609100; 506000, 3609100; 506000, 3608800; 506100, 3608800; 506100, 3608500; 506200, 3608500; 506200, 3608200; 506300, 3608200; 506300, 3608100; 506100, 3608100; 506100, 3608200; 506000, 3608200; 506000, 3608000; 506100, 3608000; 506100, 3607900; 506000, 3607900; 506000, 3607600; 506100, 3607600; 506100, 3607700; 506400, 3607700; 506400, 3607400; 506600, 3607400; 506600, 3607100; 506700, 3607100; 506700, 3606800; 506800, 3606800; 506800, 3606500; 506200, 3606500; 506200, 3606400; 505300, 3606400; 505300, 3606100; 505200, 3606100; 505200, 3606000; 505100, 3606000; 505100, 3605900; 504800, 3605900; 504800, 3605800; 504500, 3605800; 504500, 3605700; 504200, 3605700; 504200, 3605600; 503900, 3605600; 503900, 3605500; 503600, 3605500; 503600, 3605400; 503400, 3605400; 503400, 3605300; 503100, 3605300; 503100, 3605200; 502800, 3605200; 502800, 3605100; 502500, 3605100; 502500, 3605000; 502200, 3605000; 502200, 3604900; 500000, 3604900; 500000, 3605000; 498800, 3605000; 498800, 3605400; 498900, 3605400; 498900, 3605300; 499000, 3605300; 499000, 3605200; 500700, 3605200; 500700, 3605300; 500500, 3605300; 500500, 3605400; 500300, 3605400; 500300, 3605500; 500200, 3605500; 500200, 3605400; 499900, 3605400; 499900, 3605500; 499700, 3605500; 499700, 3605600; 499600, 3605600; 499600, 3605700; 498800, 3605700; 498800, 3606100; 499800, 3606100; 499800, 3606000; 499900, 3606000; 499900, 3606100; 500100, 3606100; 500100, 3606000; 500200, 3606000; 500200, 3606200; 500400, 3606200; 500400, 3606100; 500500, 3606100; 500500, 3606700; 500600, 3606700; 500600, 3607000; 500400, 3607000; 500400, 3607200; 500300, 3607200; 500300, 3607700; 500600, 3607700; 500600, 3607600; 500800, 3607600; 500800, 3607500; 500900, 3607500; 500900, 3607900; 501000, 3607900; 501000, 3608000; 501100, 3608000; 501100, 3608100; 501200, 3608100; 501200, 3608000; 501300, 3608000; 501300, 3608100; 501500, 3608100; 501500, 3607900; 501300, 3607900; 501300, 3607800; 501200, 3607800; 501200, 3607700; 501300, 3607700; 501300, 3607500; 501200, 3607500; 501200, 3607400; 501400, 3607400; 501400, 3607200; 501500, 3607200; 501500, 3607300; 501700, 3607300; 501700, 3607100; 501600, 3607100; 501600, 3606900; 501500, 3606900; 501500, 3606700; 501300, 3606700; 501300, 3606600; 501100, 3606600; 501100, 3606300; 501000, 3606300; 501000, 3606200; 501400, 3606200; 501400, 3606300; 501800, 3606300; 501800, 3606100; 502100, 3606100; 502100, 3606200; 502200, 3606200; 502200, 3606300; 502500, 3606300; 502500, 3606100; 502600, 3606100; 502600, 3606200; 503000, 3606200; 503000, 3606300; 503300, 3606300; 503300, 3606400; 503500, 3606400; 503500, 3606500; 503600, 3606500; 503600, 3606600; 504100, 3606600; 504100, 3606700; 504200, 3606700; 504200, 3606800; 504300, 3606800; 504300, 3606900; 504600, 3606900; 504600, 3607000; 504900, 3607000; 504900, 3607100; 505000, 3607100; 505000, 3607200; 504900, 3607200; 504900, 3607400; 504800, 3607400; 504800, 3607500; 504700, 3607500; 504700, 3607800; 504800, 3607800; 504800, 3608000; 504900, 3608000; 504900, 3608200; 505000, 3608200; 505000, 3608500; 505200, 3608500; 505200, 3608600; 505100, 3608600; 505100, 3608800; 505000, 3608800; 505000, 3608900; 504900, 3608900; 504900, 3609000; 504800, 3609000; 504800, 3609100; 504900, 3609100; 504900, 3609300; 505000, 3609300; 505000, 3609400; 505100, 3609400; 505100, 3609800; 505200, 3609800; 505200, 3610400; 505300, 3610400; 505300, 3610500; excluding land bounded by 503400, 3606100; 503200, 3606100; 503200, 3606000; 503400, 3606000; 503400, 3606100; land bounded by 503400, 3606100; 503700, 3606100; 503700, 3606200; 503800, 3606200; 503800, 3606300; 503600, 3606300; 503600, 3606200; 503400, 3606200; 503400, 3606100; land bounded by 501300, 3606100; 501300, 3606000; 500800, 3606000; 500800, 3605800; 500700, 3605800; 500700, 3605600; 500900, 3605600; 500900, 3605500; 501400, 3605500; 501400, 3605600; 501500, 3605600; 501500, 3605700; 501600, 3605700; 501600, 3605900; 501500, 3605900; 501500, 3606100; 501300, 3606100; land bounded by 502900, 3606000; 502900, 3605900; 502800, 3605900; 502800, 3605800; 502600, 3605800; 502600, 3605700; 502900, 3605700; 502900, 3605800; 503000, 3605800; 503000, 3605900; 503100, 3605900; 503100, 3606000; 502900, 3606000; and land bounded by 501500, 3605300; 501500, 3605200; 501700, 3605200; 501700, 3605300; 501500, 3605300.

Land bounded by the following UTM NAD27 coordinates (E, N): 497000, 3609200; 497200, 3609200; 497200, 3609000; 497100, 3609000; 497100, 3608900; 497000, 3608900; 497000, 3609200.

Land bounded by the following UTM NAD27 coordinates (E, N): 497500, 3608400; 497700, 3608400; 497700, 3608100; 497600, 3608100; 497600, 3607900; 497700, 3607900; 497700, 3608000; 498300, 3608000; 498300, 3608200; 498500, 3608200; 498500, 3608100; 498600, 3608100; 498600, 3608200; 498800, 3608200; 498800, 3608100; 499000, 3608100; 499000, 3608000; 498900, 3608000; 498900, 3607900; 499000, 3607900; 499000, 3607800; 498600, 3607800; 498600, 3607600; 498400, 3607600; 498400, 3607500; 498300, 3607500; 498300, 3607400; 497500, 3607400; 497500, 3607700; 497400, 3607700; 497400, 3608100; 497500, 3608100; 497500, 3608400.



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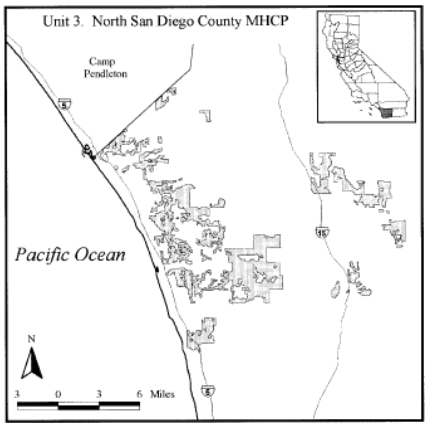
Map Unit 2: Multiple Habitat Conservation Open Space Program (MHCOSP), San Diego County, California. From USGS 1:100,000 quadrangle map Borrego Valley, California (1983), land bounded by the following UTM NAD27 coordinates (E, N): 510100, 3663200; 511600, 3663200; 511600, 3661300; 511700, 3661300; 511700, 3659900; 511100, 3659900; 511100, 3660000; 510900, 3660000; 510900, 3660100; 510800, 3660100; 510800, 3660200; 510700, 3660200; 510700, 3660300; 510600, 3660300; 510600, 3660200; 510500, 3660200; 510500, 3660100; 510300, 3660100; 510300, 3660000; 510200, 3660000; 510200, 3660300; 510100, 3660300; 510100, 3663200.

Land bounded by the following UTM NAD27 coordinates (E, N): 526200, 3656700; 526600, 3656700; 526600, 3656600; 529300, 3656600; 529300, 3655100; 527700, 3655100; 527700, 3653500; 526100, 3653500; 526100, 3651900; 526900, 3651900; 526900, 3651800; 527800, 3651800; 527800, 3651100; 527700, 3651100; 527700, 3649000; 527800, 3649000; 527800, 3647100; 526100, 3647100; 526100, 3645500; 525500, 3645500; 525500, 3645600; 524600, 3645600; 524600, 3646100; 524700, 3646100; 524700, 3646700; 524800, 3646700; 524800, 3648700; 522800, 3648700; 522800, 3648800; 521400, 3648800; 521400, 3650400; 523000, 3650400; 523000, 3652000; 521400, 3652000; 521400, 3655200; 523400, 3655200; 523400, 3655100; 525400, 3655100; 525400, 3655000; 526200, 3655000; 526200, 3656700.



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Map Unit 3: North San Diego County Multiple Habitat Conservation Plan (MHCP), San Diego County, California. From USGS 1:100,000 quadrangle map Oceanside, California (1984), land bounded by the following UTM NAD27 coordinates (E, N): 472900, 3682200; 473300, 3682200; 473300, 3681900; 473200, 3681900; 473200, 3681700; 473300, 3681700; 473300, 3681500; 473200, 3681500; 473200, 3681400; 472800, 3681400; 472800, 3681600; 473100, 3681600; 473100, 3681900; 473000, 3681900; 473000, 3681800; 472800, 3681800; 472800, 3681700; 472600, 3681700; 472600, 3681800; 472500, 3681800; 472500, 3681700; 472200, 3681700; 472200, 3681800; 472300, 3681800; 472300, 3681900; 472400, 3681900; 472400, 3682000; 472500, 3682000; 472500, 3682100; 472900, 3682100; 472900, 3682200.

Land bounded by the following UTM NAD27 coordinates (E, N): 471600, 3681300; 471700, 3681300; 471700, 3680800; 471600, 3680800; 471600, 3680600; 472000, 3680600; 472000, 3680700; 472100, 3680700; 472100, 3680800; 472200, 3680800; 472200, 3681100; 472300, 3681100; 472300, 3681200; 472400, 3681200; 472400, 3680600; 472200, 3680600; 472200, 3680500; 472100, 3680500; 472100, 3680300; 472000, 3680300; 472000, 3680200; 471900, 3680200; 471900, 3680100; 471800, 3680100; 471800, 3680000; 471600, 3680000; 471600, 3679900; 471500, 3679900; 471500, 3679800; 471300, 3679800; 471300, 3679700; 471100, 3679700; 471100, 3679600; 470900, 3679600; 470900, 3680600; 471000, 3680600; 471000, 3680700; 471100, 3680700; 471100, 3680800; 471200, 3680800; 471200, 3680900; 471300, 3680900; 471300, 3681000; 471400, 3681000; 471400, 3681100; 471500, 3681100; 471500, 3681200; 471600, 3681200; 471600, 3681300.

Land bounded by the following UTM NAD27 coordinates (E, N): 476100, 3679500; 477300, 3679500; 477300, 3678400; 477400, 3678400; 477400, 3678300; 477300, 3678300; 477300, 3678200; 476900, 3678200; 476900, 3678800; 476800, 3678800; 476800, 3679200; 476500, 3679200; 476500, 3679300; 476100, 3679300; 476100, 3679500.

Land bounded by the following UTM NAD27 coordinates (E, N): 467200, 3677300; 467500, 3677300; 467500, 3677100; 467200, 3677100; 467200, 3677000; 467100, 3677000; 467100, 3676700; 467200, 3676700; 467200, 3676600; 467300, 3676600; 467300, 3676400; 467200, 3676400; 467200, 3675900; 467000, 3675900; 467000, 3676000; 466900, 3676000; 466900, 3675800; 467700, 3675800; 467700, 3675900; 467800, 3675900; 467800, 3676300; 468400, 3676300; 468400, 3676100; 468500, 3676100; 468500, 3675800; 468600, 3675800; 468600, 3675600; 468700, 3675600; 468700, 3675300; 468800, 3675300; 468800, 3675400; 468900, 3675400; 468900, 3675600; 468800, 3675600; 468800, 3675700;

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Land bounded by the following UTM NAD27 coordinates (E, N): 471200, 3676500; 471500, 3676500; 471500, 3676300; 471600, 3676300; 471600, 3675700; 471300, 3675700; 471300, 3675800; 471200, 3675800; 471200, 3676200; 471300, 3676200; 471300, 3676300; 471200, 3676300; 471200, 3676500.

Land bounded by the following UTM NAD27 coordinates (E, N): 471500, 3675100; 471700, 3675100; 471700, 3674800; 471500, 3674800; 471500, 3674700; 471300, 3674700; 471300, 3674600; 471100, 3674600; 471100, 3674500; 470900, 3674500; 470900, 3674400; 470800, 3674400; 470800, 3674600; 470500, 3674600; 470500, 3674500; 470100, 3674500; 470100, 3674300; 470000, 3674300; 470000, 3674200; 469800, 3674200; 469800, 3674100; 469700, 3674100; 469700, 3674000; 469600, 3674000; 469600, 3673600; 470000, 3673600; 470000, 3673700; 470100, 3673700; 470100, 3673800; 470300, 3673800; 470300, 3673600; 470400, 3673600; 470400, 3673700; 470800, 3673700; 470800, 3673800; 470900, 3673800; 470900, 3673900; 471100, 3673900; 471100, 3674000; 471300, 3674000; 471300, 3674300; 471900, 3674300; 471900, 3674100; 471800, 3674100; 471800, 3674000; 471700, 3674000; 471700, 3673900; 471500, 3673900; 471500, 3673800; 472400, 3673800; 472400, 3673300; 472000, 3673300; 472000, 3673400; 471000, 3673400; 471000, 3673300; 470900, 3673300; 470900, 3673100; 470700, 3673100; 470700, 3673000; 470600, 3673000; 470600, 3673100; 470400, 3673100; 470400, 3673000; 470500, 3673000; 470500, 3672800; 470600, 3672800; 470600, 3672400; 470500, 3672400; 470500, 3672300; 470300, 3672300; 470300, 3672400; 470200, 3672400; 470200, 3672600; 470300, 3672600; 470300, 3672700; 470200, 3672700; 470200, 3673000; 469900, 3673000; 469900, 3672900; 469800, 3672900; 469800, 3672800; 469600, 3672800; 469600, 3672700; 469500, 3672700; 469500, 3672600; 469200, 3672600; 469200, 3672800; 468900, 3672800; 468900, 3672700; 468600, 3672700; 468600, 3672800; 468500, 3672800; 468500, 3673000; 468400, 3673000; 468400, 3673100; 468200, 3673100; 468200, 3673200; 468300, 3673200; 468300, 3673300; 469200, 3673300; 469200, 3673400; 469300, 3673400; 469300, 3673500; 469000, 3673500; 469000, 3674300; 469200, 3674300; 469200, 3674400; 469500, 3674400; 469500, 3674500; 469600, 3674500; 469600, 3674600; 469800, 3674600; 469800, 3674700; 470600, 3674700; 470600, 3674800; 470700, 3674800; 470700, 3674900; 471300, 3674900; 471300, 3675000; 471500, 3675000; 471500, 3675100; excluding land bounded by 470800, 3673600; 470800, 3673500; 471100, 3673500; 471100, 3673600; 470800, 3673600; and land bounded by 470000, 3673500; 470000, 3673400; 470600, 3673400; 470600, 3673500; 470000, 3673500.

Land bounded by the following UTM NAD27 coordinates (E, N): 489000, 3674500; 489300, 3674500; 489300, 3674200; 489200, 3674200; 489200, 3674100; 489300, 3674100; 489300, 3673700; 489400, 3673700; 489400, 3673500; 489300, 3673500; 489300, 3673300; 489400, 3673300; 489400, 3672800; 489800, 3672800; 489800, 3672600; 490000, 3672600; 490000, 3672500; 490100, 3672500; 490100, 3673100; 490300, 3673100; 490300, 3673200; 490400, 3673200; 490400, 3673300; 490500, 3673300; 490500, 3674000; 490100, 3674000; 490100, 3674500; 492000, 3674500; 492000, 3674200; 491800, 3674200; 491800, 3674100; 491600, 3674100; 491600, 3674300; 491500, 3674300; 491500, 3674200; 491400, 3674200; 491400, 3674100; 491300, 3674100; 491300, 3673900; 491400, 3673900; 491400, 3673700; 491500, 3673700; 491500, 3673500; 491600, 3673500; 491600, 3673200; 491500, 3673200; 491500, 3673000; 491400, 3673000; 491400, 3672900; 491300, 3672900; 491300, 3672800; 491200, 3672800; 491200, 3672700; 491100, 3672700; 491100, 3672400; 491200, 3672400; 491200, 3672200; 491300, 3672200; 491300, 3671900; 491200, 3671900; 491200, 3671600; 490900, 3671600; 490900, 3671500; 490800, 3671500; 490800, 3671400; 491100, 3671400; 491100, 3670500; 490800, 3670500; 490800, 3670400; 490700, 3670400; 490700, 3670300; 491000, 3670300; 491000, 3670200; 491100, 3670200; 491100, 3670100; 491200, 3670100; 491200, 3669800; 491500, 3669800; 491500, 3669700; 489400, 3669700; 489400, 3669800; 489300, 3669800; 489300, 3670000; 489200, 3670000; 489200, 3670100; 489100, 3670100; 489100, 3671600; 489200, 3671600; 489200, 3671500; 489500, 3671500; 489500, 3671400; 489600, 3671400; 489600, 3671200; 489500, 3671200; 489500, 3671000; 489600, 3671000; 489600, 3670900; 489800, 3670900; 489800, 3670500; 490200, 3670500; 490200, 3670600; 490300, 3670600; 490300, 3670700; 490200, 3670700; 490200, 3671300; 490600, 3671300; 490600, 3671500; 490500, 3671500; 490500, 3671400; 490200, 3671400; 490200, 3671900; 489900, 3671900; 489900, 3672000; 489800, 3672000; 489800, 3672100; 489700, 3672100; 489700, 3672000; 489500, 3672000; 489500, 3672100; 489400, 3672100; 489400, 3672400; 489300, 3672400; 489300, 3672500; 489100, 3672500; 489100, 3673300; 489000, 3673300; 489000, 3674500.

Land bounded by the following UTM NAD27 coordinates (E, N): 466000, 3673000; 466400, 3673000; 466400, 3672700; 466300, 3672700; 466300, 3672500; 466100, 3672500; 466100, 3672600; 466000, 3672600; 466000, 3673000.

Land bounded by the following UTM NAD27 coordinates (E, N): 467200, 3672300; 467200, 3672200; 467000, 3672200; 467000, 3672300; 466900, 3672300; 466900, 3672600; 467100, 3672600; 467100, 3672700; 467300, 3672700; 467300, 3672800; 467400, 3672800; 467400, 3672900; 467500, 3672900; 467500, 3673000; 467800, 3673000; 467800, 3672900; 467700, 3672900; 467700, 3672800; 467600, 3672800; 467600, 3672500; 467400, 3672500; 467400, 3672400; 467300, 3672400; 467300, 3672300; 467200, 3672300; excluding land bounded by 467200, 3672300; 467200, 3672400; 467100, 3672400; 467100, 3672300; 467200, 3672300.

Land bounded by the following UTM NAD27 coordinates (E, N): 495300, 3670900; 495400, 3670900; 495400, 3669600; 496400, 3669600; 496400, 3669500; 496700, 3669500; 496700, 3669200; 496800, 3669200; 496800, 3669300; 496900, 3669300; 496900, 3669400; 497000, 3669400; 497000, 3669500; 497200, 3669500; 497200, 3670000; 497500, 3670000; 497500, 3669900; 497600, 3669900; 497600, 3670100; 497700, 3670100; 497700, 3670300; 497400, 3670300; 497400, 3670200; 497200, 3670200; 497200, 3670100; 497100, 3670100; 497100, 3670800; 497000, 3670800; 497000, 3671200; 497700, 3671200; 497700, 3671100; 498400, 3671100; 498400, 3671000; 498500, 3671000; 498500, 3670300; 498400, 3670300; 498400, 3669700; 498500, 3669700; 498500, 3669400; 498600, 3669400; 498600, 3669100; 498000, 3669100; 498000, 3668700; 497900, 3668700; 497900, 3668100; 497600, 3668100; 497600, 3668200; 497500, 3668200; 497500, 3668800; 497600, 3668800; 497600, 3669100; 497500, 3669100; 497500, 3669300; 497600, 3669300; 497600, 3669500; 497500, 3669500; 497500, 3669400; 497300, 3669400; 497300, 3669300; 497200, 3669300; 497200, 3669200; 497300, 3669200; 497300, 3669000; 497100, 3669000; 497100, 3668900; 497000, 3668900; 497000, 3668700; 497100, 3668700; 497100, 3668400; 497200, 3668400; 497200, 3668300; 496500, 3668300; 496500, 3668100; 496600, 3668100; 496600, 3668000; 496100, 3668000; 496100, 3668100; 496000, 3668100; 496000, 3668300; 495700, 3668300; 495700, 3668100; 495500, 3668100; 495500, 3668300; 495400, 3668300; 495400, 3668400; 495300, 3668400; 495300, 3668500; 495200, 3668500; 495200, 3668700; 495100, 3668700; 495100, 3668600; 494900, 3668600; 494900, 3668700; 494800, 3668700; 494800, 3668900; 494900, 3668900; 494900, 3669200; 495100, 3669200; 495100, 3669600; 494200, 3669600; 494200, 3669800; 494000, 3669800; 494000, 3670000; 492800, 3670000; 492800, 3671500; 492600, 3671500; 492600, 3671400; 492500, 3671400; 492500, 3671600; 492300, 3671600; 492300, 3671100; 492200, 3671100; 492200, 3671000; 491900, 3671000; 491900, 3671100; 491800, 3671100; 491800, 3672000; 492100, 3672000; 492100, 3672200; 492000, 3672200; 492000, 3672100; 491700, 3672100; 491700, 3672200; 491600, 3672200; 491600, 3672400; 491700, 3672400; 491700, 3672500; 491800, 3672500; 491800, 3672800; 492300, 3672800; 492300, 3672700; 492800, 3672700; 492800, 3672600; 492900, 3672600; 492900, 3672500; 493000, 3672500; 493000, 3672100; 493100, 3672100; 493100, 3671800; 493200, 3671800; 493200, 3671400; 493300, 3671400; 493300, 3671300; 493400, 3671300; 493400, 3671200; 493500, 3671200; 493500, 3671100; 493600, 3671100; 493600, 3671000; 493700, 3671000; 493700, 3670900; 493800, 3670900; 493800, 3670700; 494000, 3670700; 494000, 3670500; 494100, 3670500; 494100, 3670400; 494200, 3670400; 494200, 3670300; 494300, 3670300; 494300, 3670200; 494500, 3670200; 494500, 3670100; 494700, 3670100; 494700, 3670200; 494800, 3670200; 494800, 3670300; 494900, 3670300; 494900, 3670600; 494800, 3670600; 494800, 3670900; 494700, 3670900; 494700, 3671000; 494600, 3671000; 494600, 3671200; 495400, 3671200; 495400, 3671100; 495300, 3671100; 495300, 3670900; excluding land bounded by 495300, 3670900; 495000, 3670900; 495000, 3670700; 495100, 3670700; 495100, 3670600; 495300, 3670600; 495300, 3670900.

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Land bounded by the following UTM NAD27 coordinates (E, N): 478300, 3664400; 478300, 3664300; 478200, 3664300; 478200, 3664000; 478300, 3664000; 478300, 3664100; 478500, 3664100; 478500, 3663900; 478700, 3663900; 478700, 3663600; 478600, 3663600; 478600, 3663700; 478500, 3663700; 478500, 3663800; 478300, 3663800; 478300, 3663600; 478100, 3663600; 478100, 3663800; 478000, 3663800; 478000, 3663700; 477700, 3663700; 477700, 3663800; 477400, 3663800; 477400, 3663600; 477500, 3663600; 477500, 3663500; 477600, 3663500; 477600, 3663400; 477000, 3663400; 477000, 3663500; 476900, 3663500; 476900, 3663600; 476600, 3663600; 476600, 3663500; 476400, 3663500; 476400, 3663600; 476200, 3663600; 476200, 3663700; 476000, 3663700; 476000, 3663600; 475900, 3663600; 475900, 3663700; 475800, 3663700; 475800, 3663800; 475700, 3663800; 475700, 3663900; 475600, 3663900; 475600, 3664400; 475800, 3664400; 475800, 3664100; 475900, 3664100; 475900, 3664200; 476100, 3664200; 476100, 3664100; 476000, 3664100; 476000, 3664000; 475900, 3664000; 475900, 3663900; 476100, 3663900; 476100, 3664000; 476300, 3664000; 476300, 3664100; 476400, 3664100; 476400, 3664200; 476800, 3664200; 476800, 3664300; 476700, 3664300; 476700, 3664400; 476400, 3664400; 476400, 3664700; 476500, 3664700; 476500, 3664900; 476400, 3664900; 476400, 3665100; 476600, 3665100; 476600, 3665200; 476500, 3665200; 476500, 3665300; 476600, 3665300; 476600, 3665400; 476900, 3665400; 476900, 3665300; 477000, 3665300; 477000, 3665400; 477100, 3665400; 477100, 3665600; 477200, 3665600; 477200, 3665400; 477300, 3665400; 477300, 3665100; 477400, 3665100; 477400, 3664900; 477300, 3664900; 477300, 3665000; 477200, 3665000; 477200, 3664700; 477500, 3664700; 477500, 3664900; 477700, 3664900; 477700, 3665200; 477900, 3665200; 477900, 3664800; 477800, 3664800; 477800, 3664700; 477700, 3664700; 477700, 3664500; 477900, 3664500; 477900, 3664600; 478000, 3664600; 478000, 3664800; 478100, 3664800; 478100, 3665100; 478300, 3665100; 478300, 3665200; 478400, 3665200; 478400, 3665500; 478300, 3665500; 478300, 3665600; 478400, 3665600; 478400, 3665700; 478300, 3665700; 478300, 3665900; 477400, 3665900; 477400, 3665800; 477100, 3665800; 477100, 3665900; 477000, 3665900; 477000, 3666000; 476900, 3666000; 476900, 3666100; 476600, 3666100; 476600, 3665800; 476400, 3665800; 476400, 3665900; 476300, 3665900; 476300, 3666000; 476200, 3666000; 476200, 3666100; 475800, 3666100; 475800, 3666000; 475700, 3666000; 475700, 3666300; 475900, 3666300; 475900, 3666400; 475600, 3666400; 475600, 3666500; 475300, 3666500; 475300, 3666600; 474800, 3666600; 474800, 3666500; 474600, 3666500; 474600, 3666800; 474400, 3666800; 474400, 3666600; 474500, 3666600; 474500, 3666500; 474100, 3666500; 474100, 3666200; 474000, 3666200; 474000, 3666300; 473900, 3666300; 473900, 3666900; 474200, 3666900; 474200, 3667100; 474000, 3667100; 474000, 3667200; 473900, 3667200; 473900, 3667400; 474400, 3667400; 474400, 3667300; 474500, 3667300; 474500, 3667200; 474600, 3667200; 474600, 3667000; 474800, 3667000; 474800, 3667200; 474900, 3667200; 474900, 3667400; 474700, 3667400; 474700, 3667300; 474600, 3667300; 474600, 3667400; 474500, 3667400; 474500, 3667600; 474400, 3667600; 474400, 3667800; 474300, 3667800; 474300, 3667900; 474200, 3667900; 474200, 3668100; 474100, 3668100; 474100, 3667900; 473800, 3667900; 473800, 3668000; 473700, 3668000; 473700, 3668100; 473500, 3668100; 473500, 3668300; 473600, 3668300; 473600, 3668400; 473500, 3668400; 473500, 3668500; 473600, 3668500; 473600, 3668600; 473700, 3668600; 473700, 3668700; 473600, 3668700; 473600, 3668900; 473500, 3668900; 473500, 3669000; 473400, 3669000; 473400, 3668900; 473300, 3668900; 473300, 3669000; 473200, 3669000; 473200, 3668400; 472800, 3668400; 472800, 3668200; 472700, 3668200; 472700, 3668000; 472600, 3668000; 472600, 3667800; 472500, 3667800; 472500, 3667700; 472600, 3667700; 472600, 3667600; 472800, 3667600; 472800,

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Land bounded by the following UTM NAD27 coordinates (E, N): 495400, 3671100; 495500, 3671100; 495500, 3670900; 495400, 3670900; 495400, 3671100.

Land bounded by the following UTM NAD27 coordinates (E, N): 478400, 3669100; 478700, 3669100; 478700, 3669000; 478900, 3669000; 478900, 3668900; 479000, 3668900; 479000, 3668400; 478900, 3668400; 478900, 3668100; 477300, 3668100; 477300, 3668500; 477400, 3668500; 477400, 3668300; 477800, 3668300; 477800, 3668400; 478200, 3668400; 478200, 3668500; 478300, 3668500; 478300, 3668600; 478200, 3668600; 478200, 3668800; 478300, 3668800; 478300, 3669000; 478400, 3669000; 478400, 3669100.

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Land bounded by the following UTM NAD27 coordinates (E, N): 470500, 3668100; 470600, 3668100; 470600, 3667500; 470300, 3667500; 470300, 3667700; 470400, 3667700; 470400, 3668000; 470500, 3668000; 470500, 3668100.

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Land bounded by the following UTM NAD27 coordinates (E, N): 497100, 3667700; 497700, 3667700; 497700, 3667500; 497100, 3667500; 497100, 3667700.

Land bounded by the following UTM NAD27 coordinates (E, N): 498000, 3667600; 498300, 3667600; 498300, 3667300; 498100, 3667300; 498100, 3667400; 498000, 3667400; 498000, 3667600.

Land bounded by the following UTM NAD27 coordinates (E, N): 473400, 3666900; 473600, 3666900; 473600, 3666800; 473500, 3666800; 473500, 3666700; 473300, 3666700; 473300, 3666800; 473400, 3666800; 473400, 3666900.

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Land bounded by the following UTM NAD27 coordinates (E, N): 478800, 3665800; 479000, 3665800; 479000, 3665700; 478800, 3665700; 478800, 3665800.

Land bounded by the following UTM NAD27 coordinates (E, N): 479700, 3662500; 479700, 3662700; 479600, 3662700; 479600, 3662800; 479300, 3662800; 479300, 3662900; 479000, 3662900; 479000, 3663200; 482400, 3663200; 482400, 3664300; 482500, 3664300; 482500, 3664400; 482400, 3664400; 482400, 3664800; 483700, 3664800; 483700, 3664700; 484200, 3664700; 484200, 3664500; 484700, 3664500; 484700, 3664600; 484900, 3664600; 484900, 3664800; 485500, 3664800; 485500, 3663300; 483900, 3663300; 483900, 3661600; 484900, 3661600; 484900, 3661500; 485400, 3661500; 485400, 3660000; 485800, 3660000; 485800, 3658400; 484200, 3658400; 484200, 3656800; 483600, 3656800; 483600, 3657300; 483700, 3657300; 483700, 3657400; 483400, 3657400; 483400, 3657500; 483000, 3657500; 483000, 3657600; 482700, 3657600; 482700, 3657500; 482400, 3657500; 482400, 3657200; 482200, 3657200; 482200, 3657100; 482000, 3657100; 482000, 3657200; 481900, 3657200; 481900, 3657100; 481800, 3657100; 481800, 3657000; 481500, 3657000; 481500, 3656900; 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Land bounded by the following UTM NAD27 coordinates (E, N): 499200, 3663500; 499900, 3663500; 499900, 3663400; 499800, 3663400; 499800, 3663300; 499200, 3663300; 499200, 3663500.

Land bounded by the following UTM NAD27 coordinates (E, N): 478000, 3663400; 478500, 3663400; 478500, 3663100; 478600, 3663100; 478600, 3662900; 478400, 3662900; 478400, 3663100; 478200, 3663100; 478200, 3663200; 478100, 3663200; 478100, 3663100; 478000, 3663100; 478000, 3662800; 477900, 3662800; 477900, 3662700; 477800, 3662700; 477800, 3662600; 477700, 3662600; 477700, 3663000; 477800, 3663000; 477800, 3663100; 477900, 3663100; 477900, 3663200; 478000, 3663200; 478000, 3663400.

Land bounded by the following UTM NAD27 coordinates (E, N): 476200, 3663100; 476400, 3663100; 476400, 3662500; 476600, 3662500; 476600, 3662400; 476700, 3662400; 476700, 3662300; 476900, 3662300; 476900, 3662200; 477100, 3662200; 477100, 3662100; 477300, 3662100; 477300, 3662000; 477400, 3662000; 477400, 3661900; 477100, 3661900; 477100, 3662000; 476900, 3662000; 476900, 3662100; 476700, 3662100; 476700, 3661800; 476500, 3661800; 476500, 3661700; 476300, 3661700; 476300, 3662000; 476500, 3662000; 476500, 3662300; 476400, 3662300; 476400, 3662400; 476200, 3662400; 476200, 3662600; 476300, 3662600; 476300, 3662700; 476200, 3662700; 476200, 3663100.

Land bounded by the following UTM NAD27 coordinates (E, N): 493700, 3661600; 494000, 3661600; 494000, 3661300; 494100, 3661300; 494100, 3661100; 494200, 3661100; 494200, 3660900; 494300, 3660900; 494300, 3660800; 494400, 3660800; 494400, 3660400; 494500, 3660400; 494500, 3660300; 494800, 3660300; 494800, 3659800; 494500, 3659800; 494500, 3659600; 494400, 3659600; 494400, 3659500; 494300, 3659500; 494300, 3659100; 494200, 3659100; 494200, 3659000; 494100, 3659000; 494100, 3659100; 493900, 3659100; 493900, 3659200; 493800, 3659200; 493800, 3659300; 493700, 3659300; 493700, 3659200; 493500, 3659200; 493500, 3659500; 493700, 3659500; 493700, 3659800; 493600, 3659800; 493600, 3659900; 493500, 3659900; 493500, 3660100; 493400, 3660100; 493400, 3660700; 493600, 3660700; 493600, 3660000; 493800, 3660000; 493800, 3660300; 494200, 3660300; 494200, 3660200; 494300, 3660200; 494300, 3660500; 494200, 3660500; 494200, 3660600; 494100, 3660600; 494100, 3660900; 493900, 3660900; 493900, 3661000; 493800, 3661000; 493800, 3661100; 493700, 3661100; 493700, 3661200; 493800, 3661200; 493800, 3661300; 493700, 3661300; 493700, 3661600.

Land bounded by the following UTM NAD27 coordinates (E, N): 494600, 3661600; 494700, 3661600; 494700, 3661400; 494600, 3661400; 494600, 3661600.

Land bounded by the following UTM NAD27 coordinates (E, N): 494600, 3661200; 494700, 3661200; 494700, 3660900; 494800, 3660900; 494800, 3660600; 494700, 3660600; 494700, 3660700; 494600, 3660700; 494600, 3661200.

Land bounded by the following UTM NAD27 coordinates (E, N): 477100, 3660700; 477300, 3660700; 477300, 3660400; 477400, 3660400; 477400, 3660200; 477300, 3660200; 477300, 3660100; 477200, 3660100; 477200, 3660300; 477100, 3660300; 477100, 3660400; 477000, 3660400; 477000, 3660300; 476800, 3660300; 476800, 3660500; 476900, 3660500; 476900, 3660600; 477100, 3660600; 477100, 3660700.

Land bounded by the following UTM NAD27 coordinates (E, N): 477800, 3659500; 478100, 3659500; 478100, 3659400; 478000, 3659400; 478000, 3659300; 477800, 3659300; 477800, 3659200; 477700, 3659200; 477700, 3659100; 477600, 3659100; 477600, 3659000; 477500, 3659000; 477500, 3658900; 477400, 3658900; 477400, 3658800; 477300, 3658800; 477300, 3658600; 477100, 3658600; 477100, 3658900; 477200, 3658900; 477200, 3659000; 477300, 3659000; 477300, 3659100; 477400, 3659100; 477400, 3659200; 477500, 3659200; 477500, 3659300; 477600, 3659300; 477600, 3659400; 477400, 3659400; 477400, 3659600; 477800, 3659600; 477800, 3659500; excluding land bounded by 477800, 3659500; 477700, 3659500; 477700, 3659400; 477800, 3659400; 477800, 3659500.

Land bounded by the following UTM NAD27 coordinates (E, N): 492200, 3659300; 492400, 3659300; 492400, 3659100; 492300, 3659100; 492300, 3659000; 492400, 3659000; 492400, 3658700; 492500, 3658700; 492500, 3658400; 492400, 3658400; 492400, 3657900; 492300, 3657900; 492300, 3657700; 492200, 3657700; 492200, 3657600; 492100, 3657600; 492100, 3657500; 492000, 3657500; 492000, 3657400; 491700, 3657400; 491700, 3657500; 491600, 3657500; 491600, 3658300; 491700, 3658300; 491700, 3658400; 491800, 3658400; 491800, 3658500; 491900, 3658500; 491900, 3658600; 492000, 3658600; 492000, 3658900; 492100, 3658900; 492100, 3659200; 492200, 3659200; 492200, 3659300.

Land bounded by the following UTM NAD27 coordinates (E, N): 494700, 3659300; 494900, 3659300; 494900, 3659200; 494800, 3659200; 494800, 3659100; 494700, 3659100; 494700, 3659000; 494900,

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Land bounded by the following UTM NAD27 coordinates (E, N): 495200, 3658700; 495500, 3658700; 495500, 3658400; 495600, 3658400; 495600, 3658300; 495900, 3658300; 495900, 3658400; 496000, 3658400; 496000, 3658300; 496200, 3658300; 496200, 3657800; 496100, 3657800; 496100, 3657700; 496000, 3657700; 496000, 3657600; 495300, 3657600; 495300, 3657700; 495000, 3657700; 495000, 3657900; 494700, 3657900; 494700, 3658000; 495100, 3658000; 495100, 3658100; 495300, 3658100; 495300, 3658200; 495400, 3658200; 495400, 3658400; 495300, 3658400; 495300, 3658300; 494900, 3658300; 494900, 3658200; 494700, 3658200; 494700, 3658400; 495100, 3658400; 495100, 3658600; 495200, 3658600; 495200, 3658700.

Land bounded by the following UTM NAD27 coordinates (E, N): 493400, 3658300; 493600, 3658300; 493600, 3658000; 493500, 3658000; 493500, 3657900; 493300, 3657900; 493300, 3658100; 493400, 3658100; 493400, 3658300.

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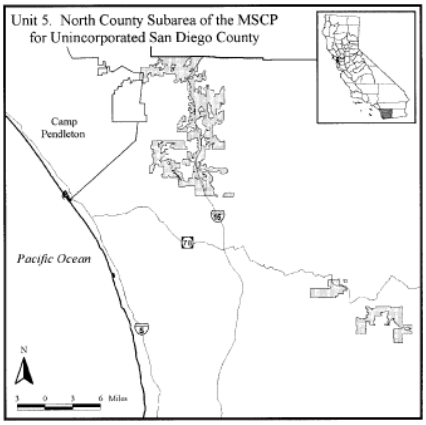
Map Unit 4: Fallbrook Naval Weapons Station, San Diego County, California. From USGS 1:100,000 quadrangle map Oceanside, California (1984). Lands within the Santa Margarita y Las Flores Land Grant: Fallbrook Naval Weapons Station; and Federal Lands associated with the Fallbrook Naval Weapons Station within T. 09 S., R. 04 W., San Bernardino Principal Meridian, secs. 35 and 36; and T. 10 S., R. 04 W., San Bernardino Principal Meridian, secs. 1 and 2; excluding land bounded by 476000, 3692600; 475800, 3692600; 475800, 3692400; 475700, 3692400; 475700, 3692300; 475500, 3692300; 475500, 3692100; 475400, 3692100; 475400, 3691900; 475300, 3691900; 475300, 3691800; 475400, 3691800; 475400, 3691600; 475300, 3691600; 475300, 3691500; 475100, 3691500; 475100, 3691400; 475400, 3691400; 475400, 3691500; 475500, 3691500; 475500, 3691600; 475600, 3691600; 475600, 3691700; 475700, 3691700; 475700, 3691800; 476000, 3691800; 476000, 3692600; land bounded by 474700, 3691700; 474600, 3691700; 474600, 3691600; 474700, 3691600; 474700, 3691700; land bounded by 474700, 3691700; 474800, 3691700; 474800, 3691800; 474900, 3691800; 474900, 3692000; 474700, 3692000; 474700, 3691900; 474600, 3691900; 474600, 3691800; 474700, 3691800; 474700, 3691700; land bounded by 474800, 3693200; 474800, 3693100; 474500, 3693100; 474500, 3693000; 474400, 3693000; 474400, 3692800; 474300, 3692800; 474300, 3692700; 474200, 3692700; 474200, 3692400; 474300, 3692400; 474300, 3692500; 474400, 3692500; 474400, 3692600; 474500, 3692600; 474500, 3692800; 474600, 3692800; 474600, 3692700; 474800, 3692700; 474800, 3692600; 475000, 3692600; 475000, 3692700; 475200, 3692700; 475200, 3692900; 475100, 3692900; 475100, 3693200; 474800, 3693200; land bounded by 474200, 3692100; 474200, 3691700; 474400, 3691700; 474400, 3691800; 474300, 3691800; 474300, 3692100; 474200, 3692100; and land bounded by 475300, 3689700; 475300, 3689600; 475200, 3689600; 475200, 3689500; 475400, 3689500; 475400, 3689700; 475300, 3689700.



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Map Unit 5: North County Subarea of the Multiple Species Conservation Program (MSCP) for Unincorporated San Diego County, California. From USGS 1:100,000 quadrangle map Oceanside, California (1984), beginning at the San Diego/Riverside County line at UTM NAD27 x coordinate 486600; land bounded by the following UTM NAD27 coordinates (E, N): 486600, 3698900; 486500, 3698900; 486500, 3698800; 486400, 3698800; 486400, 3698600; 486300, 3698600; 486300, 3698500; 486200, 3698500; 486200, 3698300; 486100, 3698300; 486100, 3698200; 486000, 3698200; 486000, 3698000; 485900, 3698000; 485900, 3697800; 485800, 3697800; 485800, 3697700; 485700, 3697700; 485700, 3697500; 485600, 3697500; 485600, 3697400; 485700, 3697400; 485700, 3697100; 485800, 3697100; 485800, 3696500; 485300, 3696500; 485300, 3696300; 485200, 3696300; 485200, 3696000; 485100, 3696000; 485100, 3695900; 485000, 3695900; 485000, 3695800; 485700, 3695800; 485700, 3695500; 485900, 3695500; 485900, 3695600; 485800, 3695600; 485800, 3695700; 485900, 3695700; 485900, 3695800; 486000, 3695800; 486000, 3695900; 485900, 3695900; 485900, 3696000; 486400, 3696000; 486400, 3695400; 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Land bounded by the following UTM NAD27 coordinates (E, N): 483900, 3681200; 484000, 3681200; 484000, 3681100; 484100, 3681100; 484100, 3681000; 484200, 3681000; 484200, 3680900; 484300, 3680900; 484300, 3679900; 483700, 3679900; 483700, 3680300; 483100, 3680300; 483100, 3681000; 483200, 3681000; 483200, 3681100; 483900, 3681100; 483900, 3681200.

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Land bounded by the following UTM NAD27 coordinates (E, N): 511100, 3659900; 511700, 3659900; 511700, 3659400; 511300, 3659400; 511300, 3659500; 511200, 3659500; 511200, 3659700; 511100, 3659700; 511100, 3659900.

Land bounded by the following UTM NAD27 coordinates (E, N): 514900, 3655200; 515500, 3655200; 515500, 3655100; 515600, 3655100; 515600, 3655000; 515700, 3655000; 515700, 3654900; 515800, 3654900; 515800, 3654800; 516000, 3654800; 516000, 3654600; 516100, 3654600; 516100, 3654800; 516300, 3654800; 516300, 3654900; 516700, 3654900; 516700, 3655200; 519300, 3655200; 519300, 3655100; 521000, 3655100; 521000, 3655200; 521400, 3655200; 521400, 3652000; 523000, 3652000; 523000, 3651300; 522700, 3651300; 522700, 3651400; 522600, 3651400; 522600, 3651500; 521900, 3651500; 521900, 3651600; 521600, 3651600; 521600, 3651700; 521500, 3651700; 521500, 3651600; 520900, 3651600; 520900, 3651700; 520800, 3651700; 520800, 3651800; 520700, 3651800; 520700, 3651900; 520600, 3651900; 520600, 3652000; 520400, 3652000; 520400, 3652100; 520300, 3652100; 520300, 3652200; 520200, 3652200; 520200, 3652300; 520100, 3652300; 520100, 3652400; 520000, 3652400; 520000, 3652600; 519900, 3652600; 519900, 3652700; 519800, 3652700; 519800, 3652900; 519900, 3652900; 519900, 3653100; 519800, 3653100; 519800, 3653000; 519600, 3653000; 519600, 3652900; 519400, 3652900; 519400, 3652800; 519300, 3652800; 519300, 3652700; 519200, 3652700; 519200, 3652300; 519100, 3652300; 519100, 3652200; 518900, 3652200; 518900, 3652300; 518800, 3652300; 518800, 3652700; 518900, 3652700; 518900, 3653000; 518800, 3653000; 518800, 3653200; 518700, 3653200; 518700, 3653500; 518800, 3653500; 518800, 3654000; 518900, 3654000; 518900, 3654100; 519000, 3654100; 519000, 3654300; 518300, 3654300; 518300, 3654200; 517900, 3654200; 517900, 3654100; 517500, 3654100; 517500, 3654000; 517700, 3654000; 517700, 3653700; 517800, 3653700; 517800, 3653600; 516400, 3653600; 516400, 3653200; 516500, 3653200; 516500, 3652700; 516300, 3652700; 516300, 3652200; 516400, 3652200; 516400, 3652100; 516500, 3652100; 516500, 3651900; 516400, 3651900; 516400, 3652000; 515700, 3652000; 515700, 3652600; 515500, 3652600; 515500, 3652500; 515200, 3652500; 515200, 3652600; 515100, 3652600; 515100, 3652700; 515000, 3652700; 515000, 3651800; 514900, 3651800; 514900, 3651300; 515000, 3651300; 515000, 3650400; 513300, 3650400; 513300, 3651000; 513400, 3651000; 513400, 3651800; 513300, 3651800; 513300, 3653200; 513800, 3653200; 513800, 3653100; 514800, 3653100; 514800, 3653000; 514900, 3653000; 514900, 3653200; 515200, 3653200; 515200, 3653500; 515000, 3653500; 515000, 3653700; 515300, 3653700; 515300, 3654000; 515500, 3654000; 515500, 3654100; 515200, 3654100; 515200, 3654500; 515400, 3654500; 515400, 3654600; 515200, 3654600; 515200, 3654800; 515000, 3654800; 515000, 3654900; 514900, 3654900; 514900, 3655200.

Land bounded by the following UTM NAD27 coordinates (E, N): 518200, 3652100; 519000, 3652100; 519000, 3652000; 519100, 3652000; 519100, 3651900; 518600, 3651900; 518600, 3652000; 518200, 3652000; 518200, 3652100.

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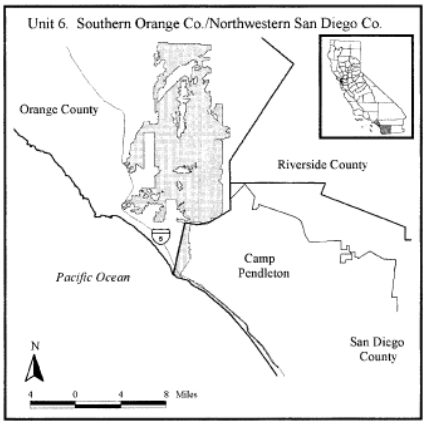

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Map Unit 6: Southern Orange County/Northwestern San Diego County, California. From USGS 1:100,000 quadrangle maps Oceanside (1984) and Santa Ana (1985), California, land bounded by the following UTM NAD27 coordinates (E, N): 445500, 3704000; 445100, 3704000; 445100, 3704800; 443600, 3704800; 443600, 3702900; 443500, 3702900; 443500, 3702000; 443300, 3702000; 443300, 3701900; 443200, 3701900; 443200, 3701700; 442900, 3701700; 442900, 3701600; 442800, 3701600; 442800, 3701700; 442500, 3701700; 442500, 3701600; 441900, 3701600; 441900, 3702300; 442100, 3702300; 442100, 3702400; 442200, 3702400; 442200, 3702600; 442100, 3702600; 442100, 3703100; 442200, 3703100; 442200, 3703000; 442500, 3703000; 442500, 3702900; 442600, 3702900; 442600, 3703000; 442700, 3703000; 442700, 3703100; 442800, 3703100; 442800, 3703200; 442900, 3703200; 442900, 3703300; 442800, 3703300; 442800, 3703400; 442700, 3703400; 442700, 3703600; 442800, 3703600; 442800, 3703700; 442900, 3703700; 442900, 3703800; 443000, 3703800; 443000, 3703700; 443200, 3703700; 443200, 3703800; 443100, 3703800; 443100, 3703900; 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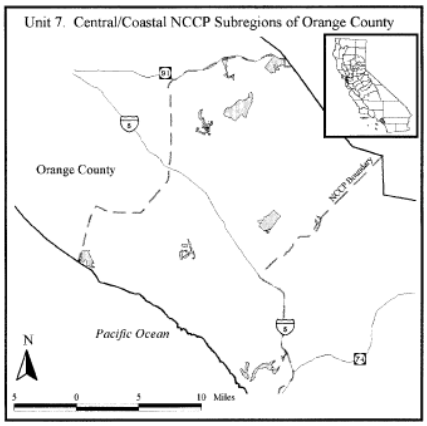

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Map Unit 7: Central/Coastal Natural Communities Conservation Plan (NCCP) Subregions of Orange County, Orange County, California. From USGS 1:100,000 quadrangle maps Santa Ana (1985) and Oceanside (1984), California, land defined by the boundary of the designated reserve within Marine Corps Air Station El Toro and selected Existing Land Use areas within the NCCP for the Central/Coastal Subregions.

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Map Unit 8: Palos Verdes Peninsula Subregion, Los Angeles County, California. From USGS 1:100,000 quadrangle map Long Beach, California (1981), land within the Los Palos Verdes Land Grant bounded by the following UTM NAD27 coordinates (E, N): 377000, 3733600; 377000, 3733800; 376900, 3733800; 376900, 3734000; 376800, 3734000; 376800, 3734200; 376700, 3734200; 376700, 3734100; 376400, 3734100; 376400, 3734200; 376100, 3734200; 376100, 3734000; 376000, 3734000; 376000, 3733800; 375600, 3733800; 375600, 3733600; 375400, 3733600; 375400, 3733500; 375300, 3733500; 375300, 3733400; 375200, 3733400; 375200, 3733500; 375100, 3733500; 375100, 3733600; 375000, 3733600; 375000, 3733700; 374900, 3733700; 374900, 3733800; 374600, 3733800; 374600, 3733900; 374500, 3733900; 374500, 3733600; 374600, 3733600; 374600, 3733500; 374700, 3733500; 374700, 3733200; 374800, 3733200; 374800, 3733100; 374700, 3733100; 374700, 3732900; 374500, 3732900; 374500, 3733100; 374400, 3733100; 374400, 3733200; 374300, 3733200; 374300, 3733300; 374200, 3733300; 374200, 3733400; 374100, 3733400; 374100, 3733500; 374000, 3733500; 374000, 3733600; 373700, 3733600; 373700, 3733700; 373400, 3733700; 373400, 3733600; 373300, 3733600; 373300, 3733500; 373100, 3733500; 373100, 3733700; 372900, 3733700; 372900, 3733600; 372600, 3733600; 372600, 3733900; 372500, 3733900; 372500, 3734000; 372300, 3734000; 372300, 3734100; 372100, 3734100; 372100, 3734200; 372000, 3734200; 372000, 3734100; 371700, 3734100; 371700, 3734000; 371600, 3734000; 371600, 3733900; 371100, 3733900; 371100, 3733700; 370800, 3733700; 370800, 3733600; 370700, 3733600; 370700, 3733500; 370400, 3733500; 370400, 3733600; 370300, 3733600; 370300, 3733800; 370100, 3733800; 370100, 3734000; 369900, 3734000; 369900, 3734100; 369300, 3734100; 369300, 3734400; 369200, 3734400; 369200, 3734600; 369100, 3734600; 369100, 3734800; 369900, 3734800; 369900, 3734900; 370000, 3734900; 370000, 3735000; 369900, 3735000; 369900, 3735400; 369800, 3735400; 369800, 3736200; 369700, 3736200; 369700, 3736300; 369600, 3736300; 369600, 3736800; 369400, 3736800; 369400, 3737100; 369000, 3737100; 369000, 3737200; 368700, 3737200; 368700, 3737400; 368800, 3737400; 368800, 3737300; 369400, 3737300; 369400, 3737400; 369600,

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Land bounded by the following UTM NAD27 coordinates (E, N): 372400, 3739900; 372800, 3739900; 372800, 3739600; 373000, 3739600; 373000, 3739700; 373100, 3739700; 373100, 3739800; 373200, 3739800; 373200, 3739900; 373400, 3739900; 373400, 3739800; 373500, 3739800; 373500, 3739600; 373400, 3739600; 373400, 3739500; 373300, 3739500; 373300, 3739400; 373200, 3739400; 373200, 3739300; 372700, 3739300; 372700, 3739100; 372600, 3739100; 372600, 3739000; 372500, 3739000; 372500, 3738700; 372600, 3738700; 372600, 3738400; 372500, 3738400; 372500, 3738200; 372300, 3738200; 372300, 3738400; 372100, 3738400; 372100, 3739000; 372200, 3739000; 372200, 3739200; 372100, 3739200; 372100, 3739600; 372300, 3739600; 372300, 3739500; 372400, 3739500; 372400, 3739900.

Land bounded by the following UTM NAD27 coordinates (E, N): 373700, 3738900; 373800, 3738900; 373800, 3737500; 373700, 3737500; 373700, 3737600; 373500, 3737600; 373500, 3737800; 373200, 3737800; 373200, 3738100; 373100, 3738100; 373100, 3738200; 373000, 3738200; 373000, 3738300; 373100, 3738300; 373100, 3738400; 373300, 3738400; 373300, 3738300; 373500, 3738300; 373500, 3738500; 373600, 3738500; 373600, 3738600; 373500, 3738600; 373500, 3738800; 373700, 3738800; 373700, 3738900.

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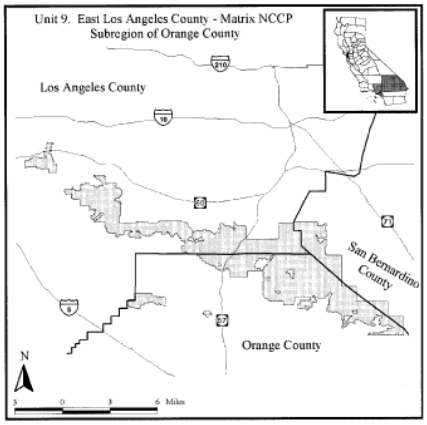

View or download PDF

Map Unit 9: East Los Angeles County—Matrix NCCP Subregion of Orange County, Los Angeles, Orange and Riverside Counties, California. From USGS 1:100,000 quadrangle maps Long Beach (1981), Los Angeles (1983) and Santa Ana (1985), California, land bounded by the following UTM NAD27 coordinates (E, N): 400700, 3766400; 400700, 3766500; 400600, 3766500; 400600, 3766900; 400500, 3766900; 400500, 3767000; 400800, 3767000; 400800, 3767300; 400700, 3767300; 400700, 3767400; 400800, 3767400; 400800, 3767800; 400900, 3767800; 400900, 3767900; 401500, 3767900; 401500, 3767700; 401300, 3767700; 401300, 3767300; 401200, 3767300; 401200, 3767100; 401300, 3767100; 401300, 3767000; 401200, 3767000; 401200, 3766900; 401100, 3766900; 401100, 3766700; 401300, 3766700; 401300, 3766400; 401400, 3766400; 401400, 3766100; 401500, 3766100; 401500, 3765900; 401600, 3765900; 401600, 3765700; 401800, 3765700; 401800, 3764800; 401000, 3764800; 401000, 3765000; 401100, 3765000; 401100, 3765100; 400800, 3765100; 400800, 3765200; 400600, 3765200; 400600, 3765100; 400200, 3765100; 400200, 3765200; 399800, 3765200; 399800, 3765400; 398800, 3765400; 398800, 3765300; 398600, 3765300; 398600, 3766000; 398700, 3766000; 398700, 3766100; 399100, 3766100; 399100, 3766200; 399300, 3766200; 399300, 3766300; 399400, 3766300; 399400, 3766400; 400000, 3766400; 400000, 3766300; 400600, 3766300; 400600, 3766400; 400700, 3766400; excluding land bounded by 400700, 3766400; 400700, 3766300; 400800, 3766300; 400800, 3766400; 400700, 3766400.

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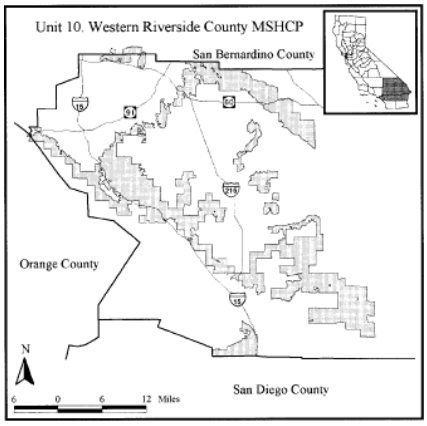

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Map Unit 10: Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP), Riverside County, California. From USGS 1:100,000 quadrangle maps Santa Ana (1985) and San Bernardino (1982), California, beginning at the Riverside/San Bernardino County line at UTM NAD27 x coordinate 484300; land bounded by the following UTM NAD27 coordinates (E, N): 484300, 3762200; 484400, 3762200; 484400, 3762000; 484300, 3762000; 484300, 3761900; 484200, 3761900; 484200, 3761800; 484600, 3761800; 484600, 3761700; 484900, 3761700; 484900, 3761800; 485100, 3761800; 485100, 3761600; 485200, 3761600; 485200, 3761500; 485300, 3761500; 485300, 3761400; 485800, 3761400; 485800, 3761300; 485900, 3761300; 485900, 3761200; 486000, 3761200; 486000, 3761100; 486100, 3761100; 486100, 3761000; 486200, 3761000; 486200, 3760800; 486300, 3760800; 486300, 3760600; 486400, 3760600; 486400, 3760400; 486500, 3760400; 486500, 3760200; 487000, 3760200; 487000, 3760100; 487400, 3760100; 487400, 3760000; 487600, 3760000; 487600, 3759900; 487700, 3759900; 487700, 3759800; 488000, 3759800; 488000, 3759700; 489100, 3759700; 489100, 3759600; 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Land bounded by the following UTM NAD27 coordinates (E, N): 459900, 3767500; 461400, 3767500; 461400, 3767400; 462300, 3767400; 462300, 3766100; 462400, 3766100; 462400, 3766300; 462500, 3766300; 462500, 3766400; 462900, 3766400; 462900, 3766300; 463000, 3766300; 463000, 3766200; 463100, 3766200; 463100, 3763900; 463000, 3763900; 463000, 3763700; 462900, 3763700; 462900, 3763100; 462800, 3763100; 462800, 3763000; 462700, 3763000; 462700, 3762900; 462600, 3762900; 462600, 3762600; 462500, 3762600; 462500, 3762500; 462300, 3762500; 462300, 3762600; 462100, 3762600; 462100, 3762700; 462000, 3762700; 462000, 3762800; 462100, 3762800; 462100, 3762900; 462200, 3762900; 462200, 3763000; 462100, 3763000; 462100, 3763100; 462000, 3763100; 462000, 3763000; 461800, 3763000; 461800, 3763100; 461700, 3763100; 461700, 3762900; 461600, 3762900; 461600, 3763000; 461500, 3763000; 461500, 3763100; 461400, 3763100; 461400, 3764600; 461600, 3764600; 461600, 3765000; 461700, 3765000; 461700, 3765100; 461800, 3765100; 461800, 3765300; 461900, 3765300; 461900, 3765500; 462000, 3765500; 462000, 3765600; 461900, 3765600; 461900, 3765700; 461700, 3765700; 461700, 3765800; 461600, 3765800; 461600, 3765600; 461500, 3765600; 461500, 3765900; 459800, 3765900; 459800, 3765000; 459900, 3765000; 459900, 3764200; 459800, 3764200; 459800, 3764100; 457500, 3764100; 457500, 3764200; 457600, 3764200; 457600, 3764300; 457700, 3764300; 457700, 3764400; 457600, 3764400; 457600, 3764500; 457700, 3764500; 457700, 3764600; 457900, 3764600; 457900, 3764800; 457800, 3764800; 457800, 3764900; 457500, 3764900; 457500, 3765000; 457400, 3765000; 457400, 3764900; 457300, 3764900; 457300, 3764700; 457200, 3764700; 457200, 3764600; 457100, 3764600; 457100, 3764500; 457300, 3764500; 457300, 3764400; 457400, 3764400; 457400, 3764200; 456100, 3764200; 456100, 3764300; 455600, 3764300; 455600, 3764400; 455400, 3764400; 455400, 3764500; 455200, 3764500; 455200, 3764600; 454900, 3764600; 454900, 3764500; 454600, 3764500; 454600, 3764600; 454500, 3764600; 454500, 3764800; 454700, 3764800; 454700, 3765000; 454300, 3765000; 454300, 3764800; 454100, 3764800; 454100, 3764700; 454000, 3764700; 454000, 3764600; 453900, 3764600; 453900, 3764500; 453800, 3764500; 453800, 3764400; 453600, 3764400; 453600, 3764300; 453300, 3764300; 453300, 3765300; 453400, 3765300; 453400, 3765400; 453700, 3765400; 453700, 3765500; 453800, 3765500; 453800, 3765600; 454100, 3765600; 454100, 3765700; 455000, 3765700; 455000, 3766000; 455200, 3766000; 455200, 3765900; 455400, 3765900; 455400, 3765800; 455900, 3765800; 455900, 3765900; 456000, 3765900; 456000, 3766100; 455800, 3766100; 455800, 3766200; 455600, 3766200; 455600, 3766300; 455500, 3766300; 455500, 3766900; 455600, 3766900; 455600, 3767100; 455800, 3767100; 455800, 3767000; 456000, 3767000; 456000, 3766900; 456400, 3766900; 456400, 3766800; 456500, 3766800; 456500, 3765700; 458200, 3765700; 458200, 3767000; 459000, 3767000; 459000, 3767300; 459600, 3767300; 459600, 3767400; 459900, 3767400; 459900, 3767500.

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Land bounded by the following UTM NAD27 coordinates (E, N): 467900, 3755000; 468300, 3755000; 468300, 3754900; 468700, 3754900; 468700, 3754700; 468600, 3754700; 468600, 3754600; 468500, 3754600; 468500, 3754500; 468200, 3754500; 468200, 3754700; 468000, 3754700; 468000, 3754800; 467900, 3754800; 467900, 3755000.

Land bounded by the following UTM NAD27 coordinates (E, N): 486400, 3751400; 486500, 3751400; 486500, 3751200; 486600, 3751200; 486600, 3751100; 486700, 3751100; 486700, 3750900; 486800, 3750900; 486800, 3750700; 486900, 3750700; 486900, 3750600; 487000, 3750600; 487000, 3750400; 487100, 3750400; 487100, 3750300; 487200, 3750300; 487200, 3750700; 487400, 3750700; 487400, 3750600; 487600, 3750600; 487600, 3750500; 487700, 3750500; 487700, 3750400; 487800, 3750400; 487800, 3750300; 487900, 3750300; 487900, 3750100; 488000, 3750100; 488000, 3749900; 488100, 3749900; 488100, 3749600; 488000, 3749600; 488000, 3749300; 488100, 3749300; 488100, 3749100; 488200, 3749100; 488200, 3748900; 488300, 3748900; 488300, 3748700; 488400, 3748700; 488400, 3748500; 488500, 3748500; 488500, 3748100; 488600, 3748100; 488600, 3748000; 488500, 3748000; 488500, 3747800; 488400, 3747800; 488400, 3747700; 488300, 3747700; 488300, 3747600; 488200, 3747600; 488200, 3747500; 488000, 3747500; 488000, 3747400; 487900, 3747400; 487900, 3747300; 487800, 3747300; 487800, 3747200; 487700, 3747200; 487700, 3745900; 487600, 3745900; 487600, 3745800; 487500, 3745800; 487500, 3745700; 487400, 3745700; 487400, 3745600; 487200, 3745600; 487200, 3745500; 487100, 3745500; 487100, 3745400; 487000, 3745400; 487000, 3745300; 486900, 3745300; 486900, 3745200; 486800, 3745200; 486800, 3745100; 486700, 3745100; 486700, 3745000; 486600, 3745000; 486600, 3744700; 486500, 3744700; 486500, 3744600; 486400, 3744500; 486300, 3744500; 486300, 3744300; 485900, 3744300; 485900, 3744200; 485700, 3744200; 485700, 3744200; 485700, 3744500; 485500, 3744500; 485500, 3744400; 485400, 3744400; 485400, 3744300; 485200, 3744300; 485200, 3744400; 485100, 3744400; 485100, 3744500; 485000, 3744500; 485000, 3744600; 484900, 3744600; 484900, 3745300; 485000, 3745300; 485000, 3745400; 485100, 3745400; 485100, 3745500; 485200, 3745500; 485200, 3745700; 485300, 3745700; 485300, 3745800; 485400, 3745800; 485400, 3745900; 485500, 3745900; 485500, 3746000; 485600, 3746000; 485600, 3746100; 485700, 3746100; 485700, 3746200; 485900, 3746200; 485900, 3746300; 486000, 3746300; 486000, 3746500; 486100, 3746500; 486100, 3746700; 486300, 3746700; 486300, 3746800; 486400, 3746800; 486400, 3746900; 486500, 3746900; 486500, 3747000; 486600, 3747000; 486600, 3747100; 486800, 3747200; 486900, 3747200; 486900, 3747500; 487000, 3747500; 487000, 3747700; 487100, 3747700; 487100, 3748000; 487200, 3748000; 487200, 3748400; 487300, 3748400; 487300, 3749200; 487200, 3749100; 487100, 3749100; 487100, 3749000; 487000, 3749000; 487000, 3748900; 486900, 3748900; 486900, 3748800; 486900, 3748800; 486700, 3748800; 486700, 3748700; 486600, 3748700; 486600, 3748600; 486600, 3748600; 486500, 3748600; 486500, 3748500; 486400, 3748400; 486200, 3748400; 486200, 3748300; 486000, 3748300; 486000, 3748500; 485900, 3748500; 485900, 3748600; 485800, 3748600; 485800, 3748800; 485500, 3748800; 485500, 3748900; 485400, 3748900; 485400, 3749500; 485500, 3749500; 485500, 3750000; 485400, 3750000; 485400, 3750200; 485600, 3750200; 485600, 3750500; 485700, 3750500; 485700, 3750600; 485800, 3750600; 485800, 3750700; 486000, 3750700; 486000, 3750800; 486200, 3750800; 486200, 3750900; 486300, 3750900; 486300, 3751200; 486400, 3751200; 486400, 3751400.

Land bounded by the following UTM NAD27 coordinates (E, N): 462300, 3751000; 462600, 3751000; 462600, 3750800; 462900, 3750800; 462900, 3750600; 463000, 3750600; 463000, 3750500; 463200, 3750500; 463200, 3750600; 463100, 3750600; 463100, 3750800; 463500, 3750800; 463500, 3750700; 463600, 3750700; 463600, 3750600; 464000, 3750600; 464000, 3750400; 464500, 3750400; 464500, 3750500; 464400, 3750500; 464400, 3750700; 464600, 3750700; 464600, 3750600; 464700, 3750600; 464700, 3750400; 464800, 3750400; 464800, 3750500; 465100, 3750500; 465100, 3750300; 465000, 3750300; 465000, 3750200; 464700, 3750200; 464700, 3749900; 464800, 3749900; 464800, 3749800; 464900, 3749800; 464900, 3749700; 465000, 3749700; 465000, 3749500; 463000, 3749500; 463000, 3749900; 462900, 3749900; 462900, 3750000; 462700, 3750000; 462700, 3750400; 462600, 3750400; 462600, 3750500; 462500, 3750500; 462500, 3750700; 462400, 3750700; 462400, 3750800; 462300, 3750800; 462300, 3751000.

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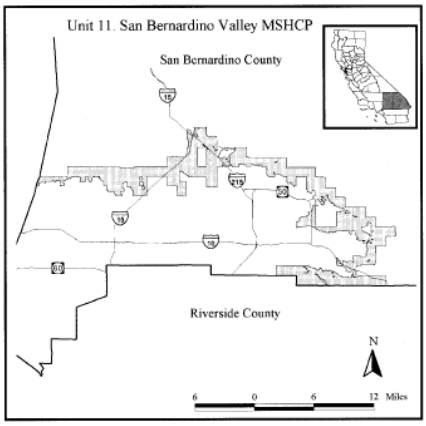
Beginning at the Riverside/San Diego County line at UTM NAD27 x coordinate 477700; land bounded by the following UTM NAD27 coordinates (E, N): 477700, 3700500; 478000, 3700500; 478000, 3700600; 478400, 3700600; 478400, 3700700; 479200, 3700700; 479200, 3700600; 479100, 3700600; 479100, 3700500; 479000, 3700500; 479000, 3700400; 479300, 3700400; 479300, 3700500; 479500, 3700500; 479500, 3700600; 480700, 3700600; 480700, 3700500; 480900, 3700500; 480900, 3701100; 481000, 3701100; 481000, 3701200; 481200, 3701200; 481200, 3701300; 481400, 3701300; 481400, 3701400; 481700, 3701400; 481700, 3701500; 481900, 3701500; 481900, 3701600; 482100, 3701600; 482100, 3701700; 482400, 3701700; 482400, 3701800; 482600, 3701800; 482600, 3701900; 482800, 3701900; 482800, 3702000; 483000, 3702000; 483000, 3702100; 483300, 3702100; 483300, 3702200; 483500, 3702200; 483500, 3702300; 483700, 3702300; 483700, 3702400; 484000, 3702400; 484000, 3702500; 484100, 3702500; 484100, 3702800; 484200, 3702800; 484200, 3702900; 484300, 3702900; 484300, 3703000; 484700, 3703000; 484700, 3702900; 484800, 3702900; 484800, 3702800; 485000, 3702800; 485000, 3702900; 485200, 3702900; 485200, 3703000; 485300, 3703000; 485300, 3703100; 485200, 3703100; 485200, 3703200; 485100, 3703200; 485100, 3703300; 484700, 3703300; 484700, 3703500; 485200, 3703500; 485200, 3703600; 485600, 3703600; 485600, 3703700; 485700, 3703700; 485700, 3703800; 485800, 3703800; 485800, 3704000; 485900, 3704000; 485900, 3704300; 486000, 3704300; 486000, 3704500; 485900, 3704500; 485900, 3704600; 485400, 3704600; 485400, 3704900; 485200, 3704900; 485200, 3705000; 485000, 3705000; 485000, 3704900; 484900, 3704900; 484900, 3704800; 485000, 3704800; 485000, 3704600; 485100, 3704600; 485100, 3704500; 485200, 3704500; 485200, 3704300; 485300, 3704300; 485300, 3704100; 485200, 3704100; 485200, 3703900; 485000, 3703900; 485000, 3704000; 484900, 3704000; 484900, 3704100; 484600, 3704100; 484600, 3704200; 484500, 3704200; 484500, 3704300; 484400, 3704300; 484400, 3704600; 484300, 3704600; 484300, 3704700; 484100, 3704700; 484100, 3704600; 483800, 3704600; 483800, 3705000; 483700, 3705000; 483700, 3705300; 484200, 3705300; 484200, 3706900; 484300, 3706900; 484300, 3706800; 484400, 3706800; 484400, 3706700; 484500, 3706700; 484500, 3706600; 484600, 3706600; 484600, 3706500; 484700, 3706500; 484700, 3706400; 484900, 3706400; 484900, 3706300; 485100, 3706300; 485100, 3706200; 485200, 3706200; 485200, 3706100; 485300, 3706100; 485300, 3706000; 485700, 3706000; 485700, 3705900; 485800, 3705900; 485800, 3705800; 485900, 3705800; 485900, 3705700; 486000, 3705700; 486000, 3705600; 486100, 3705600; 486100, 3705500; 486200, 3705500; 486200, 3705400; 486300, 3705400; 486300, 3705200; 486400, 3705200; 486400, 3704900; 486600, 3704900; 486600, 3704800; 486700, 3704800; 486700, 3704400; 486800, 3704400; 486800, 3704500; 486900, 3704500; 486900, 3704400; 487000, 3704400; 487000, 3704200; 487100, 3704200; 487100, 3703900; 487200, 3703900; 487200, 3703800; 487300, 3703800; 487300, 3703900; 487500, 3703900; 487500, 3702100; 487400, 3702100; 487400, 3699200; 487300, 3699200; to the Riverside/San Diego County line at x coordinate 487300; and returning to the point of beginning.



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Map Unit 11: San Bernardino Valley MSHCP, San Bernardino County, California. From USGS 1:100,000 quadrangle map San Bernardino, California (1982), beginning at the San Bernardino/Riverside County line at UTM NAD27 x coordinate 479300, land bounded by the following UTM NAD27 coordinates (E, N): 479300, 3764100; 476000, 3764100; 476000, 3765700; 480300, 3765700; 480300, 3765600; 480400, 3765600; 480400, 3765500; 480500, 3765500; 480500, 3765400; 480700, 3765400; 480700, 3765500; 480600, 3765500; 480600, 3765600; 480500, 3765600; 480500, 3765700; 481400, 3765700; 481400, 3765500; 481500, 3765500; 481500, 3765400; 481800, 3765400; 481800, 3765300; 482300, 3765300; 482300, 3765200; 482400, 3765200; 482400, 3765100; 482600, 3765100; 482600, 3765000; 482900, 3765000; 482900, 3765100; 483000, 3765100; 483000, 3765200; 483100, 3765200; 483100, 3765300; 483200, 3765300; 483200, 3765200; 483300, 3765200; 483300, 3765000; 483400, 3765000; 483400, 3764900; 483500, 3764900; 483500, 3764700; 483600, 3764700; 483600, 3765000; 483800, 3765000; 483800, 3764900; 483900, 3764900; 483900, 3765000; 484300, 3765000; 484300, 3764900; 484500, 3764900; 484500, 3765000; 484800, 3765000; 484800, 3764900; 484900, 3764900; 484900, 3764800; 485100, 3764800; 485100, 3764600; 484900, 3764600; 484900, 3764500; 485200, 3764500; 485200, 3764800; 485400, 3764800; 485400, 3764700; 485500, 3764700; 485500, 3764600; 485600, 3764600; 485600, 3764500; 485700, 3764500; 485700, 3764400; 485900, 3764400; 485900, 3764200; 486000, 3764200; 486000, 3764100; 486500, 3764100; 486500, 3764000; 486600, 3764000; 486600, 3763900; 486800, 3763900; 486800, 3763800; 487200, 3763800; 487200, 3763900; 487600, 3763900; 487600, 3763800; 488000, 3763800; 488000, 3763900; 488200, 3763900; 488200, 3763800; 488800, 3763800; 488800, 3763900; 489100, 3763900; 489100, 3764000; 489700, 3764000; 489700, 3764100; 493600, 3764100; to the San Bernardino/Riverside County line at UTM NAD27 x coordinate 493600; and returning to the point of beginning; excluding land bounded by 484300, 3762500; 484300, 3762700; 484200, 3762700; 484200, 3762900; 484100, 3762900; 484100, 3763000; 484000, 3763000; 484000, 3763200; 483800, 3763200; 483800, 3763300; 483700, 3763300; 483700, 3763400; 483600, 3763400; 483600, 3763500; 483400, 3763500; 483400, 3763600; 483300, 3763600; 483300, 3763700; 483100, 3763700; 483100, 3763500; 483200, 3763500; 483200, 3763400; 483300, 3763400; 483300, 3763300; 483400, 3763300; 483400, 3763200; 483500, 3763200; 483500, 3763100; 483600, 3763100; 483600, 3763000; 483800, 3763000; 483800, 3762900; 484000, 3762900; 484000, 3762700; 484100, 3762700; 484100, 3762600; 484200, 3762600; 484200, 3762500; 484300, 3762500; land bounded by 480900, 3765200; 480900, 3765300; 480800, 3765300; 480800, 3765200; 480900, 3765200; land bounded by 481100, 3764700; 481200, 3764700; 481200, 3764800; 481300, 3764800; 481300, 3764900; 481200, 3764900; 481200, 3765000; 481100, 3765000; 481100, 3764700; land bounded by 481000, 3764600; 480500, 3764600; 480500, 3764500; 481000, 3764500; 481000, 3764600; lands bounded by 482400, 3764300; 482400, 3764400; 482300, 3764400; 482300, 3764300; 482400, 3764300; land bounded by 480900, 3765200; 480900, 3765100; 481000, 3765100; 481000, 3765200; 480900, 3765200; land bounded by 481000, 3764600; 481100, 3764600; 481100, 3764700; 481000, 3764700; 481000, 3764600; land bounded by 482600, 3764200; 482600, 3764300; 482400, 3764300; 482400, 3764200; 482600, 3764200; land bounded by 482700, 3764100; 482700, 3764200; 482600, 3764200; 482600, 3764100; 482700, 3764100; land bounded by 483000, 3763800; 483000, 3763700; 483100, 3763700; 483100, 3763800; 483000, 3763800; land bounded by 482900, 3763900; 482900, 3764100; 482700, 3764100; 482700, 3764000; 482800, 3764000; 482800, 3763900; 482900, 3763900; land bounded by 482900, 3763900; 482900, 3763800; 483000, 3763800; 483000, 3763900; 482900, 3763900; and land bounded by 485100, 3764000; 485100, 3763900; 485400, 3763900; 485400, 3764000; 485100, 3764000.

Beginning at the San Bernardino/Los Angeles County line at y coordinate 3780400, land bounded by the following UTM NAD27 coordinates (E, N): 442200, 3780400; 442200, 3782000; 447700, 3782000; 447700, 3781900; 450800, 3781900; 450800, 3781800; 451500, 3781800; 451500, 3781700; 452200, 3781700; 452200, 3781800; 453000, 3781800; 453000, 3781900; 458300, 3781900; 458300, 3783500; 459100, 3783500; 459100, 3783600; 459900, 3783600; 459900, 3783500; 461300, 3783500; 461300, 3783600; 461400, 3783600; 461400, 3784000; 461500, 3784000; 461500, 3784900; 461600, 3784900; 461600, 3785100; 461700, 3785100; 461700, 3786400; 461600, 3786400; 461600, 3788000; 461800, 3788000; 461800, 3787900; 462100, 3787900; 462100, 3787500; 462200, 3787500; 462200, 3787400; 462300, 3787400; 462300, 3787300; 462400, 3787300; 462400, 3787100; 462700, 3787100; 462700, 3787000; 462900, 3787000; 462900, 3786900; 463100, 3786900; 463100, 3786800; 463300, 3786800; 463300, 3787000; 463200, 3787000; 463200, 3787100; 463100, 3787100; 463100, 3787300; 463000, 3787300; 463000, 3787400; 462800, 3787400; 462800, 3787200; 462600, 3787200; 462600, 3787600; 462700, 3787600; 462700, 3787800; 462800, 3787800; 462800, 3787900; 462900, 3787900; 462900, 3788000; 462800, 3788000; 462800, 3788100; 462700, 3788100; 462700, 3788400; 462800, 3788400; 462800, 3788300; 463300, 3788300; 463300, 3788200; 463400, 3788200; 463400, 3788300; 464600, 3788300; 464600, 3788400; 464700, 3788400; 464700, 3787100; 464800, 3787100; 464800, 3786900; 466200, 3786900; 466200, 3786800; 466400, 3786800; 466400, 3785600; 466300, 3785600; 466300, 3785400; 466400, 3785400; 466400, 3785200; 466800, 3785200; 466800, 3785100; 467700, 3785100; 467700, 3785000; 469400, 3785000; 469400, 3785100; 469600, 3785100; 469600, 3785000; 471200, 3785000; 471200, 3783900; 471100, 3783900; 471100, 3783500; 471500, 3783500; 471500, 3783400; 477600, 3783400; 477600, 3781800; 482400, 3781800; 482400, 3780200; 483700, 3780200; 483700, 3780100; 484000, 3780100; 484000, 3778500; 485600, 3778500; 485600, 3776900; 487000, 3776900; 487000, 3776800; 487200, 3776800; 487200, 3775300; 490400, 3775300; 490400, 3774400; 490500, 3774400; 490500, 3773600; 492100, 3773600; 492100, 3772000; 494700, 3772000; 494700, 3772100; 495200, 3772100; 495200, 3771200; 495300, 3771200; 495300, 3770600; 495200, 3770600; 495200, 3770500; 493700, 3770500; 493700, 3769000; 493600, 3769000; 493600, 3768900; 492100, 3768900; 492100, 3767800; 492000, 3767800; 492000, 3766000; 491900, 3766000; 491900, 3765800; 489600, 3765800; 489600, 3765700; 488900, 3765700; 488900, 3765400; 488800, 3765400; 488800, 3765100; 488600, 3765100; 488600, 3765000; 488800, 3765000; 488800, 3764900; 488900, 3764900; 488900, 3764600; 488800, 3764600; 488800, 3764400; 488900, 3764400; 488900, 3764200; 488800, 3764200;

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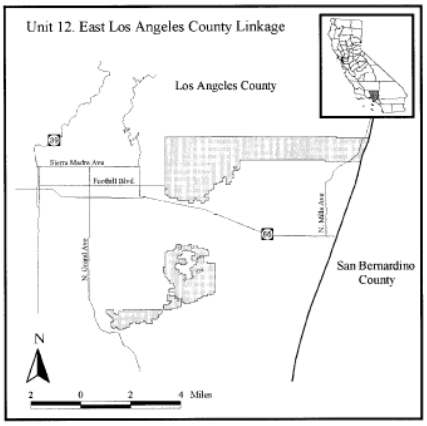

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Map Unit 12: East Los Angeles County Linkage, Los Angeles County, California. From USGS 1:100,000 quadrangle Los Angeles, California (1983), beginning at the Los Angeles/San Bernardino County line at UTM NAD27 y coordinate 3778900; land bounded by the following UTM NAD27 coordinates (E, N): 434800, 3778900; 434800, 3779000; 429300, 3779000; 429300, 3778400; 429200, 3778400; 429200, 3778300; 429100, 3778300; 429100, 3778600; 428900, 3778600; 428900, 3778500; 429000, 3778500; 429000, 3778300; 428900, 3778300; 428900, 3778200; 428800, 3778200; 428800, 3778100; 428900, 3778100; 428900, 3777800; 428800, 3777800; 428800, 3777600; 428700, 3777600; 428700, 3777400; 428400, 3777400; 428400, 3777900; 428300, 3777900; 428300, 3777800; 428200, 3777800; 428200, 3777600; 428000, 3777600; 428000, 3777500; 427800, 3777500; 427800, 3777400; 427600, 3777400; 427600, 3777100; 427500, 3777100; 427500, 3777000; 427300, 3777000; 427300, 3776800; 427100, 3776800; 427100, 3776700; 427000, 3776700; 427000, 3776600; 427300, 3776600; 427300, 3776400; 427100, 3776400; 427100, 3776300; 427000, 3776300; 427000, 3776200; 426800, 3776200; 426800, 3776400; 426500, 3776400; 426500, 3776500; 426400, 3776500; 426400, 3776400; 426300, 3776400; 426300, 3776200; 426000, 3776200; 426000, 3776400; 425300, 3776400; 425300, 3776500; 424800, 3776500; 424800, 3776600; 424700, 3776600; 424700, 3776700; 424600, 3776700; 424600, 3776800; 424500, 3776800; 424500, 3777100; 424600, 3777100; 424600, 3777200; 424500, 3777200; 424500, 3780500; 424500, 3780500; 435600, 3780500; 435600, 3780400; 437600, 3780400; to the Los Angeles/San Bernardino County line at UTM NAD27 y coordinate 3780300; and returning to the point of beginning.

Lands bounded by the following UTM NAD27 coordinates (E, N): 426700, 3772700; 427000, 3772700; 427000, 3772400; 427200, 3772400; 427200, 3772300; 427700, 3772300; 427700, 3770400; 427600, 3770400; 427600, 3770300; 427200, 3770300; 427200, 3770200; 426900, 3770200; 426900, 3770100; 426800, 3770100; 426800, 3770000; 426600, 3770000; 426600, 3769900; 426400, 3769900; 426400, 3769800; 426100, 3769800; 426100, 3769700; 425700, 3769700; 425700, 3769800; 425600, 3769800; 425600, 3769800; 425600, 3770000; 425500, 3770000; 425500, 3769500; 425300, 3769500; 425300, 3769400; 424900, 3769400; 424900, 3769300; 424400, 3769300; 424400, 3769600; 424700, 3769600; 424700, 3769700; 424800, 3769700; 424800, 3769800; 424900, 3769800; 424900, 3769900; 424600, 3769900; 424600, 3770300; 424800, 3770300; 424800, 3770200; 425100, 3770200; 425100, 3770400; 424700, 3770400; 424700, 3770600; 424800, 3770600; 424800, 3770700; 425100, 3770700; 425100, 3770800; 425000, 3770800; 425000, 3771000; 424800, 3771000; 424800, 3771200; 424700, 3771200; 424700, 3771300; 424600, 3771300; 424600, 3771400; 424500, 3771400; 424500, 3771700; 424400, 3771700; 424400, 3772100; 424500, 3772100; 424500, 3773000; 424600, 3773000; 424600, 3773100; 425000, 3773100; 425000, 3773200; 425100, 3773200; 425100, 3773300; 425200, 3773300; 425200, 3773500; 425500, 3773500; 425500, 3773400; 426000, 3773400; 426000, 3773500; 426200, 3773500; 426200, 3773300; 426300, 3773300; 426300, 3773400; 426600, 3773400; 426600, 3773300; 427000, 3773300; 427000, 3773200; 427200, 3773200; 427200, 3773100; 427300, 3773100; 427300, 3772800; 426700, 3772800; 426700, 3772700; excluding land bounded by 425800, 3771300; 425700, 3771300; 425700, 3771200; 425800, 3771200; 425800, 3771300; land bounded by 425300, 3770000; 425300, 3769900; 425400, 3769900; 425400, 3770000; 425300, 3770000; land bounded by 426600, 3772600; 426500, 3772600; 426500, 3772500; 426200, 3772500; 426200, 3772800; 426400, 3772800; 426400, 3773000; 426200, 3773000; 426200, 3773100; 425900, 3773100; 425900, 3773200; 425800, 3773200; 425800, 3773100; 425600, 3773100; 425600, 3772900; 425500, 3772900; 425500, 3772800; 425300, 3772800; 425300, 3772600; 425800, 3772600; 425800, 3772400; 425900, 3772400; 425900, 3772300; 425800, 3772300; 425800, 3772200; 425500, 3772200; 425500, 3772300; 425200, 3772300; 425200, 3772200; 425100, 3772200; 425100, 3772000; 425200, 3772000; 425200, 3771900; 425400, 3771900; 425400, 3771600; 425500, 3771600; 425500, 3771700; 425600, 3771700; 425600, 3771600; 425800, 3771600; 425800, 3771300; 426200, 3771300; 426200, 3771400; 426300, 3771400; 426300, 3771500; 426200, 3771500; 426200, 3771800; 426100, 3771800; 426100, 3772000; 426200, 3772000; 426200, 3772100; 426300, 3772100; 426300, 3772200; 426500, 3772200; 426500, 3772400; 426600, 3772400; 426600, 3772600; land bounded by 425100, 3770200; 425100, 3770000; 425300, 3770000; 425300, 3770100; 425200, 3770100; 425200, 3770200; 425100, 3770200; land bounded by 425500, 3773400; 425400, 3773400; 425400, 3773200; 425500, 3773200; 425500, 3773400; land bounded by 426700, 3772700; 426600, 3772700; 426600, 3772600; 426700, 3772600; 426700, 3772700; and land bounded by 426600, 3771900; 426600, 3771800; 426500, 3771800; 426500, 3771700; 426700, 3771700; 426700, 3771800; 426900, 3771800; 426900, 3771900; 426600, 3771900.

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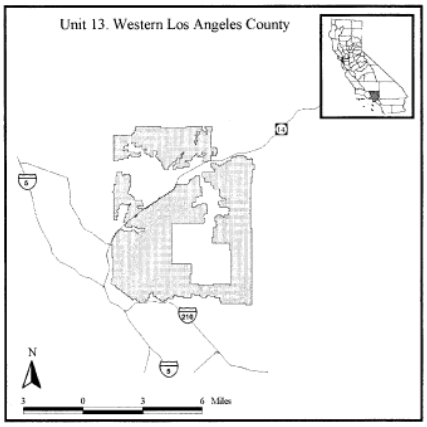

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Map Unit 13: Western Los Angeles County, Los Angeles County, California. From USGS 1:100,000 quadrangle map Los Angeles, California (1983), land bounded by the following UTM NAD27 coordinates (E, N): 367500, 3810500; 367200, 3810500; 367200, 3810300; 367100, 3810300; 367100, 3810200; 366900, 3810200; 366900, 3810100; 366800, 3810100; 366800, 3810000; 366700, 3810000; 366700,

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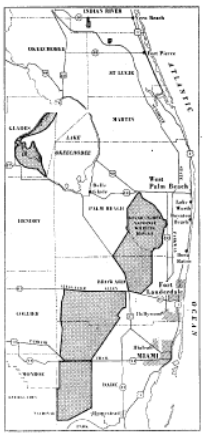
Everglade Snail Kite (Rostrhamus sociabilis plumbeus)

Florida. Areas of land (predominantly marsh), water, and airspace, with the following components (Tallahassee Meridian): (1) St. Johns Reservoir, Indian River County: T33S R37E SW 1/4 Sec. 6, W 1/2 Sec. 7, Sec. 18, Sec. 19; (2) Cloud Lake Reservoir, St. Lucie County; T34S R38E S 1/2 Sec. 16, N 1/2 Sec. 21; (3) Strazzulla Reservoir, St. Lucie County: T34S R38E SW 1/4 Sec. 21; (4) western parts of Lake Okeechobee, Glades and Hendry Counties, extending along the western shore to the east of the levee system and the undiked high ground at Fisheating Creek, and from the Hurricane Gate at Clewiston northward to the mouth of the Kissimmee River, including all the *Eleocharis* flats of Moonshine Bay, Monkey Box, and Observation Shoal, but excluding the open water north and west of the northern tip of Observation Shoal, north of Monkey Box, and east of Fisheating Bay; (5) Loxahatchee National Wildlife Refuge (Central and Southern Florida Flood Control District Water Conservation Area 1), Palm Beach County, including Refuge Management Compartments A, B, C, and D, and all of the main portion of the Refuge as bounded by Levees L–7, L–39, and L–40; (6) Central and Southern Florida Flood Control District Water Conservation Area 2A, Palm Beach and Broward Counties, as bounded by Levees L–6, L–35B, L–36, L–38, and L–39; (7) Central and Southern Florida Flood Control District Water Conservation Area 2B, Broward County, as bounded by Levees L–35, L–35B, L–36, and L–38; (8) Central and Southern Florida Flood Control District Water Conservation Area 3A, Broward and Dade Counties, as bounded by Florida Highway 84. Levees L–68A, L–67A (north of Miami Canal), L–67C (south of Miami Canal). L–29, and L–28, and a line along the undiked northerwestern portion of the Area; (9) that portion of Everglades National Park, Dade County, within the following boundary: Beginning at the point where the Park boundary meets Florida Highway 94 in T54S R35E Sec. 20, thence eastward and southwest along the Park boundary to the southwest corner of Sec. 31 in T7S R37E, thence southwestward along a straight line to the southwest corner of Sec. 2 in T58S R35E, thence westward along the south sides of Sec. 3, 4, 5, and 6 in T58S R35E to the Dade-Monroe county line, thence northward along the Dade-Monroe county line to the Park boundary, thence eastward and northward along the Park boundary to the point of beginning.

Note:

Map follows:



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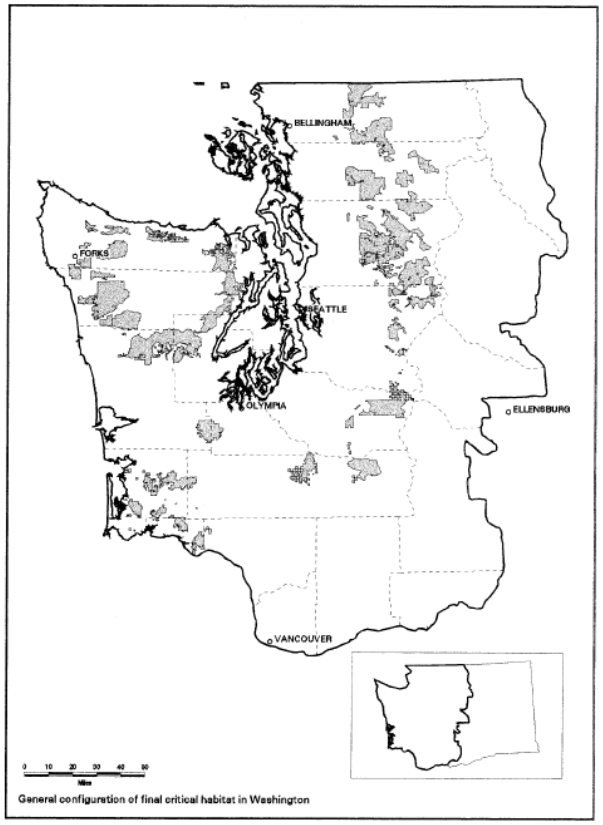
Marbled Murrelet (Brachyramphus marmoratus marmoratus)

1. Critical habitat units are depicted for the States of Washington, Oregon, and California on the maps below.

2. The primary constituent elements: individual trees with potential nest platforms and forest lands of at least one half site-potential tree height regardless of contiguity within 0.8 kilometers (0.5 miles) of individual trees with potential nesting platforms and that are used or potentially used by the marbled murrelet for nesting or roosting.

3. A description of the critical habitat units follows. Where a critical habitat unit includes Federal lands within the boundaries of a Late Successional Reserve established by the Northwest Forest Plan, those boundaries include any minor adjustments. Critical habitat units do not include non-federal lands covered by a legally operative incidental take permit for marbled murrelets issued under section 10(a) of the Act.



General configuration of final critical habitat in Washington

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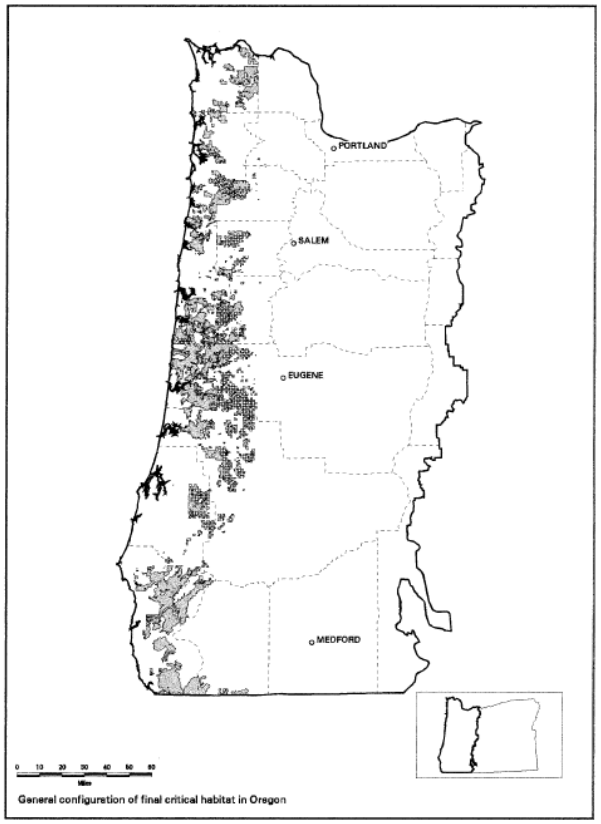

General configuration of final critical habitat in Oregon

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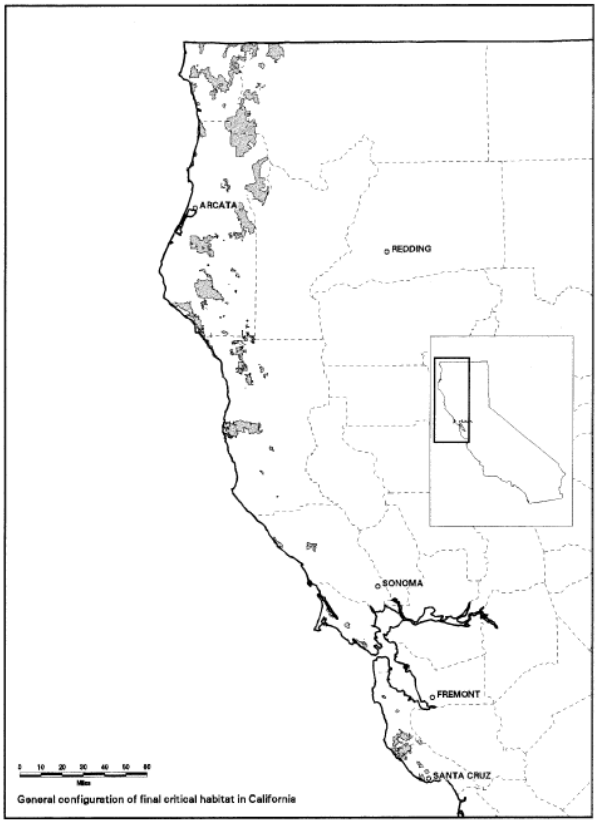

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Map and description of WA–01–a taken from United States Fish and Wildlife Service 1:100,000 map; Cape Flattery, Forks, and Port Angeles, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.28N., R.10W. Willamette Meridian: W 1/2 W 1/2 Section 1; Sections 2–8; NW 1/4, N 1/2 SW 1/4, N 1/2 NE 1/4, SW 1/4 NE 1/4 Section 9; N 1/2 NW 1/4, NE 1/4 Section 10; W 1/2 NW 1/4, NE 1/4 NW 1/4, N 1/2 NE 1/4 Section 11; NW 1/4 NW 1/4 Section 12.

T.28N., R.11W. Willamette Meridian: Sections 1–5; S 1/2 SW 1/4, SE 1/4, S 1/2 NE 1/4, NE 1/4 NE 1/4 Section 6; Sections 7–12; N 1/2 NW 1/4 Section 13; N 1/2 Section 14; N 1/2 N 1/2 Section 15; N 1/2 Section 16; N 1/2, N 1/2 SW 1/4 Section 17; N 1/2 N 1/2 Section 18.

T.28N., R.12W. Willamette Meridian: SW 1/4 SW 1/4 Section 1; SW 1/4, S 1/2 SE 1/4 Section 2; S 1/2 SW 1/4, SE 1/4 Section 3; N 1/2 N 1/2 Section 10; N 1/2 Section 11; Section 12 except SW 1/4 SW 1/4, N 1/2 NE 1/4 Section 13.

T.29N., R.10W. Willamette Meridian: SW 1/4 NW 1/4, W 1/2 SW 1/4, SE 1/4 SW 1/4 Section 1; Section 2 except N 1/2 NE 1/4; Section 3 except N 1/2 NE 1/4; Sections 4–5; SE 1/4 NW 1/4, SW 1/4 SW 1/4, E 1/2 Section 6; Sections 7–24; Section 25 except SE 1/4 SE 1/4; Sections 26–35; NW 1/4, N 1/2 SW 1/4, SW 1/4 SW 1/4, W 1/2 NE 1/4 Section 36.

T.29N., R.11W. Willamette Meridian: SE 1/4 SW 1/4, SE 1/4, SE 1/4 NE 1/4 Section 12; Section 13; N 1/2, N 1/2 SW 1/4, SE 1/4 Section 14; E 1/2 SE 1/4 Section 22; S 1/2, NE 1/4 Section 23; Sections 24–27; S 1/2, S 1/2 NE 1/4 Section 28; SE 1/4 Section 29; SE 1/4 SE 1/4 Section 31; S 1/2 SW 1/4, NE 1/4 SW 1/4, SE 1/4, S 1/2 NE 1/4, NE 1/4 NE 1/4 Section 32; Sections 33–36.

T.30N., R.09W. Willamette Meridian: S 1/2 SW 1/4 Section 18; N 1/2 NW 1/4 Section 19.

T.30N., R.10W. Willamette Meridian: E 1/2 NW 1/4, E 1/2 SW 1/4, SW 1/4 SW 1/4, SE 1/4, SW 1/4 NE 1/4 Section 1; S 1/2 SW 1/4, SW 1/4 SE 1/4 Section 2; Section 3 except NE 1/4; Section 4; E 1/2 NW 1/4, S 1/2 SW 1/4, NE 1/4 SW 1/4, E 1/2 Section 5; S 1/2 Section 6; Sections 7–12; Section 13 except SW 1/4 SW 1/4; NW 1/4 NW 1/4, NE 1/4 Section 14; Section 15; N 1/2, N 1/2 SE 1/4 Section 16; N 1/2 Section 17; Section 18 except S 1/2 SE 1/4; NW 1/4 NW 1/4 Section 19; SW 1/4 SW 1/4 Section 35.

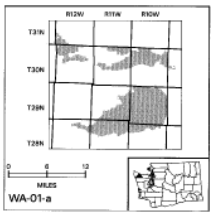
T.30N., R.11W. Willamette Meridian: Sections 1–2; Section 3 except S 1/2 SW 1/4, SW 1/4 SE 1/4; Section 4 except S 1/2 SW 1/4, SW 1/4 SE 1/4; NE 1/4 NE 1/4 Section 10; N 1/2 NW 1/4, SE 1/4 SE 1/4, W 1/2 NE 1/4, NE 1/4 NE 1/4 Section 11; NW 1/4 NW 1/4, S 1/2, E 1/2 NE 1/4 Section 12; Sections 13–14; S 1/2, S 1/2 NE 1/4 Section 15; S 1/2 Section 17; SE 1/4 Section 18; N 1/2 NW 1/4, SE 1/4 NW 1/4, NE 1/4 Section 20; N 1/2, N 1/2 SE 1/4 Section 21; N 1/2, N 1/2 S 1/2 Section 22; N 1/2, N 1/2 SW 1/4 Section 23; NW 1/4, W 1/2 NE 1/4, NE 1/4 NE 1/4 Section 24.

T.30N., R.12W. Willamette Meridian: NW 1/4 NW 1/4 Section 2; W 1/2, N 1/2 NE 1/4 Section 3; Section 4–5; Section 6 except W 1/2 NW 1/4, NW 1/4, N 1/2 SE 1/4, NE 1/4 Section 7; Section 8 except SW 1/4 SW 1/4; N 1/2 N 1/2, SE 1/4 SE 1/4 Section 9; S 1/2 Section 10; S 1/2 SW 1/4, SW 1/4 SE 1/4 Section 11; W 1/2 NW 1/4 Section 13; N 1/2, N 1/2 SW 1/4 Section 14; N 1/2, NE 1/4 SE 1/4 Section 15; Section 17 except NW 1/4 NW 1/4, SE 1/4 SE 1/4.

T.31N., R.12W. Willamette Meridian: Section 30 except NE 1/4; Section 31; Section 32 except NE 1/4; S 1/2 SW 1/4 Section 33.

Critical Habitat includes only State or County lands described within the following areas:

T.30N., R.12W. Willamette Meridian: N 1/2 Section 16.



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Map and description of WA–01–b taken from United States Fish and Wildlife Service 1:100,000 map; Port Angeles, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.29N., R.07W. Willamette Meridian: N 1/2 NW 1/4 Section 1; NE 1/4 Section 2.

T.30N., R.07W. Willamette Meridian: NW 1/4 SW 1/4, SW 1/4 SE 1/4, SW 1/4 NE 1/4 Section 26; S 1/2 SW 1/4 Section 29; Section 30 except SE 1/4 NE 1/4, N 1/2 NE 1/4; Section 31 except SW 1/4 SW 1/4; W 1/2 W 1/2, NE 1/4 NW 1/4 Section 32; W 1/2 NW 1/4, N 1/2 SW 1/4, SE 1/4 SW 1/4, N 1/2 SE 1/4, S 1/2 NE 1/4, NE 1/4 NE 1/4 Section 33; NW 1/4, N 1/2 SE 1/4, W 1/2 NE 1/4, SE 1/4 NE 1/4 Section 34; Sections 35–36.

T.30N., R.08W. Willamette Meridian: Section 25; Section 26 except NW 1/4 NE 1/4; Sections 27–29; N 1/2 N 1/2 Section 32; N 1/2, NE 1/4 SE 1/4 Section 33; N 1/2, N 1/2 SW 1/4, SE 1/4 Section 34; N 1/2, W 1/2 SW 1/4, NE 1/4 SW 1/4, N 1/2 SE 1/4 Section 35; N 1/2, N 1/2 S 1/2 Section 36.

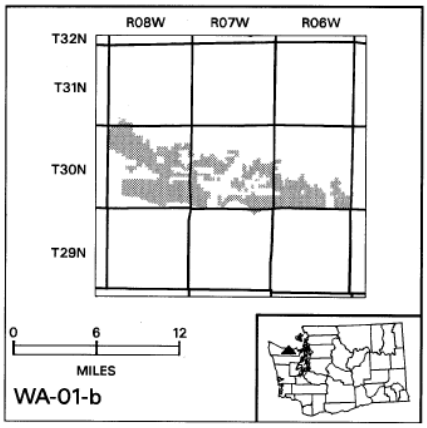
Critical Habitat includes only State or County lands described within the following areas:

T.30N., R.06W. Willamette Meridian: N 1/2 SW 1/4, NW 1/4 SE 1/4 Section 18; NW 1/4 NW 1/4, SW 1/4, W 1/2 SE 1/4 Section 19; SW 1/4 SW 1/4 Section 20; SW 1/4 SW 1/4, E 1/2 SW 1/4 Section 21; SE 1/4 SE 1/4 Section 23; NW 1/4 NW 1/4, W 1/2 SW 1/4, SE 1/4 SW 1/4 Section 25; E 1/2 Section 26; SE 1/4 NW 1/4, S 1/2 Section 27; Section 28 except SE 1/4 SW 1/4, NE 1/4 NE 1/4; Section 29; Section 30 except S 1/2 SW 1/4; Sections 31–34; W 1/2 W 1/2, E 1/2 E 1/2 Section 35; Section 36.

T.30N., R.07W. Willamette Meridian: SE 1/4 SE 1/4 Section 9; S 1/2 SW 1/4 Section 10; S 1/2 S 1/2, NE 1/4 SE 1/4 Section 13; SE 1/4 SW 1/4, SE 1/4, SE 1/4 NE 1/4 Section 14; SW 1/4 NW 1/4, NE 1/4 NW 1/4, NW 1/4 SW 1/4, SE 1/4 SE 1/4 Section 15; SW 1/4, S 1/2 SE 1/4, NE 1/4 SE 1/4, S 1/2 NE 1/4 Section 16; S 1/2, S 1/2 N 1/2, NW 1/4 NE 1/4 Section 17; NW 1/4 NW 1/4, S 1/2, E 1/2 NE 1/4 Section 18; W 1/2 NW 1/4, SE 1/4 NW 1/4, SW 1/4, N 1/2 SE 1/4 Section 19; SW 1/4, SW 1/4 SE 1/4, E 1/2 NE 1/4 Section 20; NW 1/4, SW 1/4 SW 1/4, NW 1/4 NE 1/4 Section 21; SE 1/4 SW 1/4, E 1/2 E 1/2 Section 22; S 1/2 NW 1/4, NE 1/4 NW 1/4, SE 1/4, SE 1/4 SE 1/4, W 1/2 NE 1/4, NE 1/4 NE 1/4 Section 23; N 1/2, NW 1/4 SW 1/4, N 1/2 SE 1/4, SE 1/4 SE 1/4 Section 24; S 1/2 NW 1/4, NE 1/4 Section 25; N 1/2, NW 1/4 SE 1/4 Section 27.

T.30N., R.08W. Willamette Meridian: S 1/2 SW 1/4 Section 4; Section 5 except E 1/2 NE 1/4; Section 6 except NW 1/4 NW 1/4; Section 7 except S 1/2 SW 1/4; Section 8; Section 9 except NW 1/4 NE 1/4; SW 1/4 SW 1/4, SE 1/4 Section 10; W 1/2 SW 1/4, SE 1/4 SW 1/4, SE 1/4, SE 1/4 NE 1/4 Section 11; SW 1/4 NW 1/4, N 1/2 S 1/2, SE 1/4 SE 1/4, S 1/2 NE 1/4 Section 12; NW 1/4 NW 1/4, W 1/2 SW 1/4, SE 1/4 SW 1/4, SE 1/4 SE 1/4, NE 1/4 NE 1/4 Section 13; Section 14; Section 15 except N 1/2 SE 1/4, S 1/2 NE 1/4; Section 16 except SW 1/4 SE 1/4; E 1/2 NW 1/4, NW 1/4 NW 1/4, NE 1/4 Section 17; NE 1/4 NW 1/4, N 1/2 NE 1/4, SW 1/4 NE 1/4 Section 20; N 1/2 NW 1/4, SE 1/4 NW 1/4, SW 1/4 SE 1/4, E 1/2 SW 1/4, NE 1/4 Section 22; W 1/2, N 1/2 SE 1/4, SW 1/4 NE 1/4 Section 23; SW 1/4 NW 1/4, NE 1/4 NW 1/4, N 1/2 S 1/2, N 1/2 NE 1/4 Section 24.

T.31N., R.08W. Willamette Meridian: E 1/2 SE 1/4 Section 31; W 1/2 SW 1/4, SE 1/4 SW 1/4, SW 1/4 SE 1/4 Section 32.



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Map and description of WA–02–a taken from United States Fish and Wildlife Service 1:100,000 map; Cape Flattery and Forks, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.28N., R.12W Willamette Meridian: S 1/2, S 1/2 N 1/2 Section 4; S 1/2, S 1/2 N 1/2 Section 5; S 1/2, NW 1/4, S 1/2 NE 1/4, Section 6; Sections 7–9; Sections 16–21; Sections 28–33.

T.29N., R.12W. Willamette Meridian: S 1/2 Section 7; SW 1/4, SW 1/4 SE 1/4 Section 8; S 1/2 SW 1/4, SW 1/4 SE 1/4 Section 9; NW 1/4, W 1/2 SW 1/4, W 1/2 NE 1/4 Section 16; Section 17 except SE 1/4 SW 1/4, SW 1/4 SE 1/4; Section 18; Section 19 except W 1/2 SE 1/4; W 1/2 W 1/2 Section 20; W 1/2 Section 30.

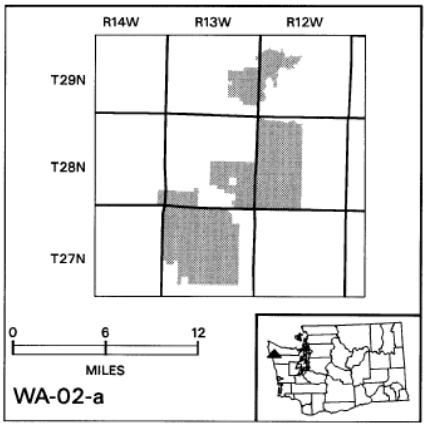
T.29N., R.13W. Willamette Meridian: S 1/2 S 1/2, NE 1/4 NE 1/4 Section 13; Section 23 except SW 1/4 SW 1/4; Sections 24–25; N 1/2, N 1/2 S 1/2, SE 1/4 SE 1/4 Section 26, N 1/2 N 1/2 Section 36.

Critical Habitat includes only State or County lands described within the following areas:

T.27N., R.13W. Willamette Meridian: W 1/2 NW 1/4, SE 1/4 NW 1/4, SW 1/4 Section 2; Sections 3–11; Sections 14–18; N 1/2, NE 1/4 SW 1/4, NW 1/4 SE 1/4 Section 19; Sections 20–23; Sections 26–28; N 1/2, W 1/2 SW 1/4, E 1/2 SE 1/4 Section 29.

T.28N., R.13W. Willamette Meridian: Sections 22–25; W 1/2 NW 1/4, S 1/2, E 1/2 NE 1/4 Section 26; N 1/2, N 1/2 SE 1/4 Section 27; SW 1/4 SW 1/4 Section 28; Sections 31–32; W 1/2 W 1/2 Section 33; E 1/2 E 1/2, W 1/2 SE1/4 Section 35; Section 36.

T.28N., R.14W. Willamette Meridian: E 1/2 Section 36.



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Map and description of WA–02–b taken from United States Fish and Wildlife Service 1:100,000 map; Forks and Mt Olympus, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.25N., R.10W. Willamette Meridian: Sections 29–30; Section 31 except SE 1/4 SE 1/4; N 1/2 NW 1/4, SW 1/4 NW 1/4 Section 32.

Critical Habitat includes only State or County lands described within the following areas:

T.24N., R.11W. Willamette Meridian: N 1/2 N 1/2 Section 1; N 1/2, N 1/2 SW 1/4 Section 2; Sections 3–8; Section 9 except SE 1/4; N 1/2 NW 1/4 Section 10; NW 1/4 Section 16; NW 1/4, NW 1/4 SW 1/4, W 1/2 NE 1/4 Section 17; Section 18 except SE 1/4 SE 1/4; NW 1/4 NW 1/4 Section 19.

T.24N., R.12W. Willamette Meridian: NW 1/4 NW 1/4, S 1/2 NW 1/4, SW 1/4, W 1/2 SE 1/4, SE 1/4 SE 1/4, SW 1/4 NE 1/4 Section 1; SE 1/4, NW 1/4 NE 1/4, E 1/2 NE 1/4 Section 2; W 1/2 SE 1/4, NE 1/4 SE 1/4, S 1/2 NE 1/4 Section 10; Section 11; Section 12 except NE 1/4 SE 1/4; W 1/2, W 1/2 NE 1/4, NE 1/4 NE 1/4 Section 13; N 1/2, S 1/2 SE 1/4, NE 1/4 SE 1/4 Section 14; NE 1/4 NW 1/4, N 1/2 SE 1/4, NE 1/4 Section 23; N 1/2, N 1/2 SW 1/4 Section 24.

T.25N., R.09W. Willamette Meridian: NW 1/4, W 1/2 SW 1/4, N 1/2 NE 1/4, SW 1/4 NE 1/4 Section 6.

T.25N., R.10W. Willamette Meridian: Sections 1–11; W 1/2 NW 1/4, NE 1/4 NW 1/4 Section 12; NW 1/4, N 1/2 SW 1/4, N 1/2 NE 1/4, NE 1/4 NE 1/4 Section 14; Section 15 except SE 1/4 SW 1/4, S 1/2 SE 1/4; Sections 16–20; N 1/2 Section 21.

T.25N., R.11W. Willamette Meridian: Section 1–19; Section 20 except NE 1/4 NW 1/4; Sections 21–36.

T.25N., R.12W. Willamette Meridian: Section 1 except N 1/2 N 1/2; Section 2 except NE 1/4 NE 1/4; Section 3 except NE 1/4 NW 1/4; E 1/2 Section 4; SE 1/4 Section 5; SE 1/4 SW 1/4 Section 6; Section 7; N 1/2 Section 8; Section 9; Section 10 except NE 1/4 NE 1/4; SE 1/4 NW 1/4, S 1/2 Section 11; Section 12; Section 13 except S 1/2 SW 1/4; W 1/2 W 1/2, E 1/2 Section 14; Sections 15–16; W 1/2 W 1/2, SE 1/4 SW 1/4, S 1/2 SE 1/4, NE 1/4 SE 1/4 Section 17; Section 18; E 1/2 NW 1/4, N 1/2 NE 1/4, SW 1/4 NE 1/4 Section 19; N 1/2 N 1/2 Section 20; N 1/2 N 1/2 Section 21; N 1/2 N 1/2 Section 22; NW 1/4 NW 1/4, NE 1/4 NE 1/4 Section 23; NE 1/4 NW 1/4, E 1/2 SW 1/4, NE 1/4 Section 24; Section 25; Section 26 except W 1/2 NW 1/4, NE 1/4 NW 1/4, NW 1/4 NE 1/4; Sections 35–36.

T.25N., R.13W. Willamette Meridian: Section 1 except NE 1/4 SE 1/4, N 1/2 NE 1/4, SE 1/4 NE 1/4; Section 2 except NW 1/4; NE 1/4 NW 1/4, S 1/2 S 1/2, N 1/2 NE 1/4, SE 1/4 NE 1/4 Section 11; Section 12; Section 13 except SW 1/4 SW 1/4; Section 14; N 1/2 NW 1/4 Section 23; NE 1/4 NW 1/4, NW 1/4 NE 1/4 Section 24.

T.26N., R.09W. Willamette Meridian: S 1/2 NW 1/4, SW 1/4, W 1/2 SE 1/4, SE 1/4 SE 1/4, SW 1/4 NE 1/4 Section 19; W 1/2 Section 29; Sections 30–31; W 1/2 W 1/2 Section 32.

T.26N., R.10W. Willamette Meridian: Sections 2–11; W 1/2 SW 1/4, SE 1/4 SW 1/4, SW 1/4 SE 1/4 Section 13; Sections 14–36.

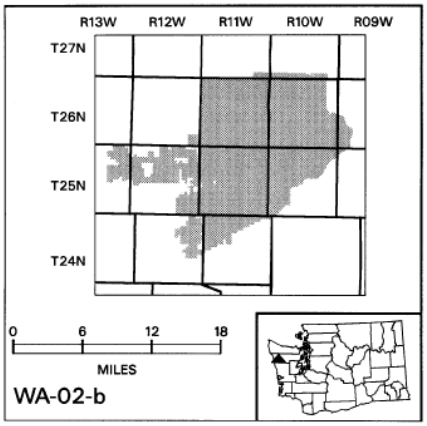
T.26N., R.11W. Willamette Meridian: Sections 1–36.

T.26N., R.12W. Willamette Meridian: Section 36.

T. 27N., R. 10W. Willamette Meridian:

S 1/2 Section 31; S 1/2 Section 32; S 1/2 Section 33; S 1/2 Section 34; S 1/2 Section 35.

T. 27N., R. 11W. Willamette Meridian: SE 1/4 Section 35; S 1/2 Section 36.



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Map and description of WA–02–c taken from United States Fish and Wildlife Service 1:100,000 map; Forks and Mt Olympus, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T. 23N., R. 9W. Willamette Meridian: NW 1/4, NW 1/4 SW 1/4, NW 1/4 NE 1/4 Section 6.

T. 23N., R. 10W. Willamette Meridian: N 1/2, N 1/2 SW 1/4, SW 1/4 SW 1/4, N 1/2 SE 1/4 Section 1; N 1/2 N 1/2, SE 1/4 NE 1/4 Section 2; NW 1/4, N 1/2 NE 1/4, SW 1/4 NE 1/4 Section 3; E 1/2 NW 1/4, NE 1/4 Section 4; N 1/2, SW 1/4 SW 1/4, NE 1/4 SW 1/4, SE 1/4 SE 1/4, NE 1/4 SE 1/4 Section 15; S 1/2 NW 1/4, NE 1/4 SW 1/4, SE 1/4, NW 1/4 NE 1/4, S 1/2 NE 1/4 Section 16; NE 1/4 NE 1/4 Section 22.

T. 23N., R. 11W. Willamette Meridian: E 1/2 NW 1/4, N 1/2 SE 1/4, NE 1/4 Section 1.

T. 24N., R. 09W. Willamette Meridian: S 1/2 N 1/2, S 1/2 Section 3; Sections 4–10; Section 15 except SE 1/4 SE 1/4, NE 1/4 NE 1/4; Sections 16–21; Sections 28–33.

T. 24N., R. 10W. Willamette Meridian: Sections 1–3; S 1/2, NE 1/4 Section 4; S 1/2 Section 5; S 1/2 Section 6; Sections 7–30; N 1/2, N 1/2 S 1/2, SE 1/4 SE 1/4 Section 31; Sections 32–36.

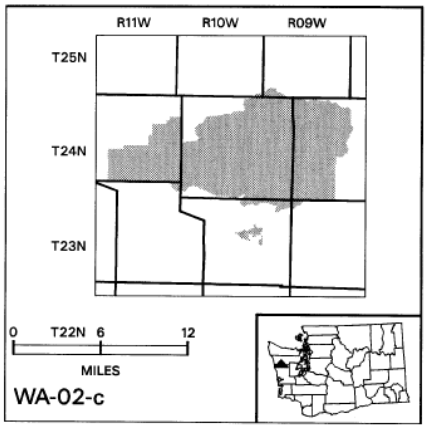
T. 24N., R. 10 1/2W. Willamette Meridian: S 1/2 SE 1/4 Section 1; Section 12 except W 1/2 W 1/2; Section 13; Section 14 except NW 1/4 NW 1/4; Sections 23–26; NW 1/4, N 1/2 SW 1/4, N 1/2 NE 1/4, SW 1/4 NE 1/4 Section 35; N 1/2 NW 1/4, NE 1/4 Section 36.

T. 25N., R. 09W. Willamette Meridian: S 1/2, SE 1/4 NW 1/4, S 1/2 NE 1/4 Section 31; NW 1/4 SW 1/4, S 1/2 SW 1/4 Section 32.

T. 25N., R. 10W. Willamette Meridian: S 1/2 SE 1/4 Section 36.

Critical Habitat includes only State or County lands described within the following areas:

T. 24N., R. 11W. Willamette Meridian: S 1/2 SW 1/4, NE 1/4 SW 1/4, SE 1/4 Section 12; Sections 13–14; SE 1/4 SE 1/4 Section 15; S 1/2 S 1/2 Section 20; S 1/2 Section 21; E 1/2 NE 1/4, S 1/2 Section 22; Sections 23–29; Sections 32–36.



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Map and description of WA–02–d taken from United States Fish and Wildlife Service 1:100,000 map; Forks, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

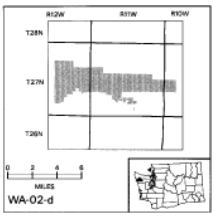
T.27N., R.11W. Willamette Meridian: N 1/2 SW 1/4, SE 1/4 SW 1/4, SW 1/4 SE 1/4 Section 27; S 1/2 NW 1/4, N 1/2 SW 1/4, SW 1/4 SW 1/4, SE 1/4 Section 28; NE 1/4 SE 1/4, SE 1/4 NE 1/4 Section 29; SW 1/4 NE 1/4 Section 34.

Critical Habitat includes only State or County lands described within the following areas:

T.27N., R.10W. Willamette Meridian: Section 19.

T.27N., R.11W. Willamette Meridian: S 1/2 Section 14; S 1/2 Section 15; S 1/2 Section 16; S 1/2 Section 17; Sections 18–24; S 1/2 SW 1/4 Section 27; N 1/2 NW 1/4, NE 1/4 SW 1/4, NW 1/4 SE 1/4 Section 28; N 1/2 N 1/2 Section 29; NE 1/4 NE 1/4 Section 30.

T.27N., R.12W. Willamette Meridian: S 1/2 Section 10; SW 1/4 Section 11; Sections 13–15; Section 22; Section 23 except SE 1/4 SE 1/4; Section 24; NE 1/4 NW 1/4, N 1/2 NE 1/4 Section 25; N 1/2 NW 1/4 Section 26; Section 27 except E 1/2 SE 1/4.



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Map and description of WA–03–a taken from United States Fish and Wildlife Service 1:100,000 map; Mt Olympus and Shelton, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.21N., R.07W. Willamette Meridian: N 1/2 NW 1/4, SE 1/4 NW 1/4, NE 1/4 SW 1/4, W 1/2 SE 1/4 Section 3.

T.21N., R.08W. Willamette Meridian: Sections 4–9; N 1/2, SW 1/4, NW 1/4 SE 1/4 Section 16; Sections 17–18; NW 1/4 NW 1/4 Section 21.

T.21N., R.09W. Willamette Meridian: Section 1; Section 2 except NW 1/4 NW 1/4; Section 3 except SE 1/4, S 1/2 NE 1/4, NE 1/4 NE 1/4; Section 4; E 1/2 Section 5; N 1/2 Section 6.

T.22N., R.07W. Willamette Meridian: Section 1; NE 1/4 NW 1/4, E 1/2 SE 1/4, NW 1/4 SE 1/4, NE 1/4 Section 2; W 1/2 Section 3; Sections 4–5; SE 1/4 NW 1/4, S 1/2 SW 1/4, NE 1/4 SW 1/4, E 1/2 Section 6; NW 1/4, N 1/2 NE 1/4 Section 7; SE 1/4 NW 1/4, NE 1/4 SW 1/4, S 1/2 SE 1/4, NE 1/4 SE 1/4, NW 1/4 NE 1/4, E 1/2 NE 1/4 Section 8; Section 9; W 1/2, W 1/2 SE 1/4, SE 1/4 SE 1/4 Section 10; NE 1/4 SE 1/4, NE 1/4 Section 11; NW 1/4 NW 1/4, S 1/2 NW 1/4, SW 1/4, W 1/2 SE 1/4 Section 12; N 1/2 NW 1/4, S 1/2 SW 1/4, W 1/2 SE 1/4, NE 1/4 SE 1/4, W 1/2 NE 1/4 Section 13; SW 1/4 NW 1/4, SW 1/4, SW 1/4 SE 1/4 Section 14; Section 15 except SE 1/4 NW 1/4, NE 1/4 SW 1/4, SW 1/4 NE 1/4; Section 16; Section 17 except W 1/2 NW 1/4, NE 1/4 NW 1/4; SW 1/4, E 1/2 SE 1/4, NE1/4 NE1/4 Section 19; Section 20 except SE1/4; Section 21 except SE 1/4 SE 1/4; N 1/2 Section 22; N 1/2, E 1/2 SW 1/4, W 1/2 SE 1/4, NE 1/4 SE 1/4 Section 23; W 1/2 NW 1/4, NE 1/4 NW 1/4 Section 24; NW 1/4 Section 26; S 1/2 NW 1/4, SW 1/4, N 1/2 SE 1/4, NE 1/4 Section 27; N 1/2 NW 1/4 Section 28; NW 1/4, N 1/2 NE 1/4 Section 29; SW 1/4 SW 1/4 Section 30; W 1/2, N 1/2 SE 1/4, W 1/2 NE 1/4 Section 31; W 1/2 Section 34.

T.22N., R.08W. Willamette Meridian: E 1/2 SE 1/4 Section 1; N 1/2 NW 1/4, W 1/2 SW 1/4, NW 1/4 NE 1/4 Section 2; Sections 3–9; W 1/2, W 1/2 NE 1/4, NE 1/4 NE 1/4 Section 10; SE 1/4 NW 1/4, S 1/2, S 1/2 NE 1/4 Section 11; W 1/2 SW 1/4, NE 1/4 NE 1/4 Section 12; NW 1/4 NW 1/4, SW 1/4 SE 1/4 Section 13; NE 1/4 NW 1/4, N 1/2 NE 1/4 Section 14; Section 15 except E 1/2 SE 1/4, NE 1/4; Sections 16–21; Section 22 except E 1/2 SE 1/4, NE 1/4; E 1/2 SE 1/4, NW 1/4 SE 1/4, NE 1/4 Section 24; SE 1/4 SE 1/4, NE 1/4 NE 1/4 Section 25; Section 27 except E 1/2 E 1/2; Sections 28–33; N 1/2 NW 1/4, SW 1/4 NW 1/4, SE 1/4 SW 1/4, E 1/2 SE 1/4, SW 1/4 SE 1/4, W 1/2 NE 1/4 Section 34; Section 35 except NW 1/4 NW 1/4; SE 1/4 SW 1/4, S 1/2 SE 1/4, NE 1/4 SE 1/4, NE 1/4 Section 36.

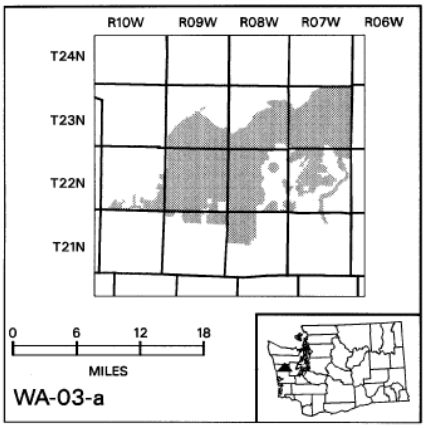
T.22N., R.09N. Willamette Meridian: Sections 1–5; E 1/2, E 1/2 W 1/2 Section 6; E 1/2, E 1/2 W 1/2 Section 7; Sections 8–25; Section 26 except SW 1/4; Sections 27–33; Section 34 except S 1/2 SE 1/4; Section 35 except N 1/2 NW 1/4, W 1/2 SW 1/4.

T.22N., R.10W. Willamette Meridian: SE 1/4 Section 13; SE 1/4 NW 1/4, SW 1/4 SW 1/4, E 1/2 SW 1/4, SE 1/4, E 1/2 NE 1/4 Section 24; SE 1/4 NW 1/4, SW 1/4, E 1/2 Section 25; W 1/2 SW 1/4, SE 1/4 SE 1/4 Section 27; S 1/2 SE 1/4, NE 1/4 SE 1/4 Section 31; SW 1/4 NW 1/4, E 1/2 NW 1/4, S 1/2, S 1/2 NE 1/4 Section 32; NW 1/4 NW 1/4, S 1/2 SW 1/4, SW 1/4 SE 1/4, NE 1/4 SE 1/4 Section 33; W 1/2 NW 1/4, N 1/2 SW 1/4, NW 1/4 SE 1/4, SE 1/4 SE 1/4, NE 1/4 NE 1/4 Section 34; Section 35 except SW 1/4 SW 1/4; Section 36.

T.23N., R.07W. Willamette Meridian: Sections 1–3; S 1/2, S 1/2 NE 1/4, NE 1/4 NE 1/4 Section 4; SW 1/4 SW 1/4 Section 7; SE 1/4 SW 1/4, SE 1/4, SE 1/4 NE 1/4 Section 8; Sections 9–17; Section 18 except N 1/2 NE 1/4; Sections 19–30; N 1/2, N 1/2 SW 1/4, SE 1/4 Section 31; Section 32–33; Section 34 except S 1/2 SE 1/4; Sections 35–36.

T.23N., R.08W. Willamette Meridian: S 1/2 NW 1/4, N 1/2 SW 1/4, SE 1/4 SW 1/4, SE 1/4, S 1/2 NE 1/4 Section 11; Section 12 except N 1/2 N 1/2; Sections 13–14; S 1/2, NE 1/4 Section 15; S 1/2 SE 1/4, NE 1/4 SE 1/4 Section 16; SE 1/4 SE 1/4 Section 20; S 1/2, NE 1/4 Section 21; Sections 22–29; W 1/2 NW 1/4, SE 1/4 NW 1/4, S 1/2, SE 1/4 NE 1/4 Section 30; Sections 31–34; Section 35 except E 1/2 SE 1/4; N 1/2, NE 1/4 SE 1/4 Section 36.

T.23N., R.09W. Willamette Meridian: E 1/2 NW 1/4, SW 1/4, SW 1/4 SE 1/4, W 1/2 NE 1/4 Section 15; S 1/2 SE 1/4, NE 1/4 SE 1/4 Section 16; SE 1/4 SE 1/4 Section 19; S 1/2, S 1/2 NE 1/4, NE 1/4 NE 1/4 Section 20; Sections 21–22; W 1/2 NW 1/4, SW 1/4, W 1/2 SE 1/4, SE 1/4 SE 1/4 Section 23; SW 1/4 SW 1/4 Section 24; Sections 25–29; SW 1/4, SW 1/4, E 1/2 SW 1/4, SE 1/4, S 1/2 NE 1/4 NE 1/4 NE 1/4 Section 30; E 1/2 W 1/2, E 1/2 Section 31; Sections 32–36.



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Map and description of WA–03-b taken from United States Fish and Wildlife Service 1:100,000 map; Mt Olympus and Shelton, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

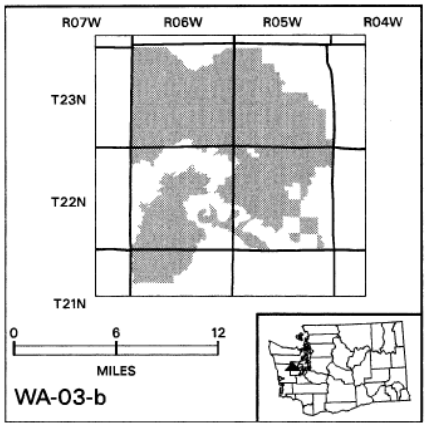
T.21N., R.06W. Willamette Meridian: W 1/2, NW1/4 NE 1/4 Section 3; Sections 4–8; E 1/2, NE 1/4 Section 9; N 1/2 NW 1/4 Section 10.

T.22N., R.05W. Willamette Meridian: Sections 1–4; S 1/2, SW 1/4 NW 1/4, E 1/2 NW 1/4, NE 1/4 Section 5; Sections 6–10; Section 11 except SE 1/4 SE 1/4; W 1/2 Section 14; N 1/2 NW 1/4, W 1/2 SW 1/4 Section 15; Sections 16–18; N 1/2, W 1/2 SW 1/4, N 1/2 SE 1/4, SE 1/4 SE 1/4 Section 19; Sections 20–22; Section 26; Section 28 except SW 1/4 SW 1/4; N 1/2 NW 1/4, NE 1/4 SE 1/4, N 1/2 NE 1/4, SE 1/4 NE 1/4 Section 29; NW 1/4 NW 1/4, S 1/2 SW 1/4, NE 1/4 SW 1/4, W 1/2 SE 1/4, NE 1/4 SE 1/4, S 1/2 NE 1/4 Section 30; N 1/2 NW 1/4, SE 1/4 NW 1/4, N 1/2 SE 1/4, SE 1/4 SE 1/4, NE 1/4 Section 31; W 1/2, SE 1/4, S 1/2 NE 1/4 Section 32; W 1/2 SW 1/4, SE 1/4 SW 1/4 Section 33; NE 1/4 Section 34; W 1/2 W 1/2, NE 1/4 SW 1/4 Section 36.

T.22N., R.06W. Willamette Meridian: N 1/2, E 1/2 SE 1/4 Section 1; NW 1/4, N 1/2 NE 1/4, SE 1/4 NE 1/4 Section 2; N 1/2 NE 1/4 Section 3; NW 1/4, W 1/2 SW 1/4, NE 1/4 SW 1/4, NW 1/4 SE 1/4, W 1/2 NE 1/4, NE 1/4 NE 1/4 Section 5; Section 6 except S 1/2 SE 1/4; N 1/2 NW 1/4, S 1/2 SE 1/4, NE 1/4 SE 1/4 Section 8; S 1/2 Section 9; S 1/2 NW 1/4, NE 1/4 NW 1/4, S 1/2, W 1/2 NE 1/4, SE 1/4 NE 1/4 Section 10; SW 1/4, SW 1/4 SE 1/4 Section 11; NE 1/4 SE 1/4, S 1/2 SE 1/4 Section 12; Section 13; NW 1/4, N 1/2 SW 1/4 Section 14; Sections 15–16; E 1/2 Section 17; N 1/2 SE 1/4, SE 1/4 SE 1/4, S 1/2 NE 1/4, NW 1/4 NE 1/4 Section 19; Sections 20–21; W 1/2 NW 1/4, NE 1/4 NW 1/4, W 1/2 SW 1/4, E 1/2 SE 1/4 Section 22; S 1/2, SW 1/4 NE 1/4 Section 23; NE 1/4 NW 1/4, W 1/2 SW 1/4, E 1/2 SE 1/4, N 1/2 NE 1/4, SE 1/4 NE 1/4 Section 24; S 1/2 N 1/2, NW 1/4 NW 1/4, N 1/2 S 1/2, SE 1/4 SE 1/4, NE 1/4 NE 1/4 Section 25; N 1/2, SW 1/4 SW 1/4, NE 1/4 SE 1/4 Section 26; Section 27 except NW 1/4 NE 1/4; Sections 28–29; E 1/2 Section 30; Section 31 except W 1/2 NW 1/4; Sections 32–34; NW 1/4 Section 35.

T.23N., R.05W. Willamette Meridian: W 1/2 W 1/2 Section 4; S 1/2 N 1/2, S 1/2 Section 5; S 1/2 N 1/2, S 1/2 Section 6; Sections 7–9; W 1/2 SW 1/4 Section 10; S 1/2 SW 1/4, SW 1/4 SE 1/4 Section 14; NW 1/4, NW 1/4 SW 1/4, S 1/2 SW 1/4, S 1/2 SE 1/4 Section 15; Sections 16–22; Section 23 except SE 1/4 NE 1/4, N 1/2 NE 1/4; NW 1/4 SW 1/4, S 1/2 SW 1/4 Section 24; W 1/2 Section 25; Sections 26–35; Section 36 except NE 1/4.

T.23N., R.06W. Willamette Meridian: SE 1/4 NW 1/4, S 1/2, S 1/2 NE 1/4 Section 1; E 1/2 SE 1/4 Section 2; SW 1/4 NW 1/4, SW 1/4, W 1/2 SE 1/4, SE 1/4 SE 1/4 Section 4; Sections 5–9; NW 1/4 NW 1/4, S 1/2 N 1/2, S 1/2 Section 10; Sections 11–32; Section 33 except SE 1/4 SE 1/4; Section 34 except SW 1/4; Sections 35–36.



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Map and description of WA–04–a taken from United States Fish and Wildlife Service 1:100,000 map; Shelton and Chehalis River, Washington; 1995.

Critical Habitat includes only State or County lands described within the following areas:

T.16N., R.03W. Willamette Meridian: NW 1/4, W 1/2 SW 1/4, W 1/2 NE 1/4 Section 4; Sections 5–7; NW 1/4, W 1/2 SW 1/4, W 1/2 NE 1/4, NE 1/4 NE 1/4 Section 8; NW 1/4 NW 1/4; NW 1/4 NW 1/4 Section 16; W 1/2, NE 1/4 Section 17; Section 18; Section 19 except S 1/2 SE 1/4.

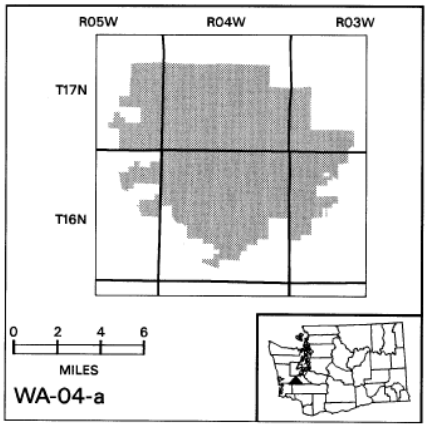
T.16N., R.04W. Willamette Meridian: Sections 1–17; Section 18 except SW 1/4; NE 1/4 Section 19; Section 20 except W 1/2 SW 1/4; Sections 21–23; N 1/2 NW 1/4 Section 26; Section 27 except E 1/2 SE 1/4; N 1/2 NW 1/4, S 1/2 SE 1/4, NE 1/4 SE 1/4, NE 1/4 Section 28; N 1/2 NW 1/4, W 1/2 NE 1/4 Section 33.

T.16N., R.05W. Willamette Meridian: S 1/2 SW 1/4, SE 1/4 Section 1; S 1/2 SE 1/4, NE 1/4 SE 1/4 Section 2; N 1/2, SW 1/4, NW 1/4 SE 1/4 Section 11; N 1/2 Section 12; Section 13 except N 1/2 NW 1/4, NW 1/4 NE 1/4.

T.17N., R.03W. Willamette Meridian: Section 19; Sections 30–32; Section 33 except SE 1/4 SE 1/4.

T.17N., R.04W. Willamette Meridian: Sections 14–36.

T.17N., R.05W. Willamette Meridian: Section 13; E 1/2 Section 14; S 1/2, NE 1/4 Section 23; Sections 24–25; NW 1/4 SW 1/4, S 1/2 S 1/2 Section 26; S 1/2 SE 1/4, NE 1/4 SE 1/4, SE 1/4 NE 1/4 Section 27; Sections 35–36.



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Map and description of WA–05–a taken from United States Fish and Wildlife Service 1:100,000 map; Chehalis River, Washington; 1995.

Critical Habitat includes only State or County lands described within the following areas:

T.12N., R.08W. Willamette Meridian: Section 2 except NE 1/4 NE 1/4; Sections 3–5; Section 9; Section 10 except NW 1/4 NW 1/4; W 1/2, N 1/2 NE 1/4, SW 1/4 NE 1/4 Section 11; W 1/2, W 1/2 NE 1/4 Section 14; Sections 15–16.

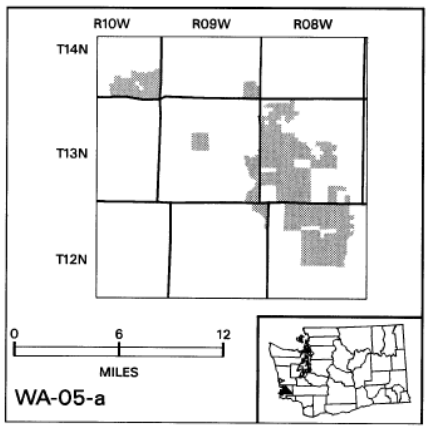
T.12N., R.09W. Willamette Meridian: N 1/2, N 1/2 SE 1/4, SE 1/4 SE 1/4 Section 1.

T.13N., R.08W. Willamette Meridian: SW 1/4 SW 1/4 Section 4; Section 5 except N 1/2 NW 1/4, NW 1/4 NE 1/4; SE 1/4 NW 1/4, S 1/2 SE 1/4, NE 1/4 SE 1/4, S 1/2 NE 1/4 Section 6; Section 7 except SE 1/4 NW 1/4; NW 1/4 NW 1/4, W 1/2 SW 1/4, W 1/2 NE 1/4, NE 1/4 NE 1/4 Section 8; SW 1/4 Section 14; NE 1/4 SW 1/4, SE 1/4 Section 15; Sections 16–20; N 1/2 Section 21; SW 1/4 NW 1/4, S 1/2, S 1/2 NE 1/4, NE 1/4 NE 1/4 Section 22; W 1/2 NW 1/4, SE 1/4 NW 1/4, SW 1/4 Section 23; Section 28–29; Section 30 except N 1/2 N 1/2; Sections 32–33.

T.13N., R.09W. Willamette Meridian: Section 16; S 1/2 N 1/2, S 1/2, NE 1/4 NE 1/4 Section 24; E 1/2 NW 1/4, NW 1/4 SE 1/4, E 1/2 SE 1/4, NE 1/4 Section 25; Section 36 except N 1/2 NW 1/4.

T.14N., R.09W. Willamette Meridian: Section 36 except NE 1/4 NE 1/4.

T.14N., R.10W. Willamette Meridian: S 1/2, S 1/2 NE 1/4 Section 25; S 1/2 Section 26; SE 1/4 Section 27; Section 34 except NW 1/4 NW 1/4; Section 35 except NW 1/4 NE 1/4, SE 1/4 NE 1/4; Section 36.



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Map and description of WA–05–b taken from United States Fish and Wildlife Service 1:100,000 map; Astoria, Oregon-Washington; 1995.

Critical Habitat includes only State or County lands described within the following areas:

T.10N., R.09W. Willamette Meridian: N 1/2, N 1/2 SE 1/4, NE 1/4 SW 1/4 Section 3; N 1/2 NE 1/4 Section

4.

T.11N., R.09W. Willamette Meridian: Sections 4–10; W 1/2 Section 14; Sections 15–18; Section 19 except SW 1/4 SW 1/4; Sections 20–22; Sections 27–29; NW 1/4, E 1/2 Section 33; Section 34 except SW 1/4.

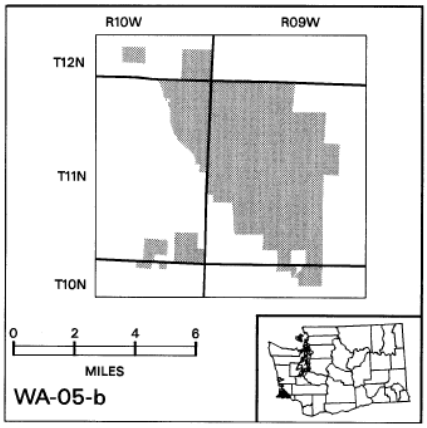
T.11N., R.10W. Willamette Meridian: Section 1; E 1/2 NW 1/4, E 1/2 Section 2; E 1/2 E 1/2 Section 11; Section 12; N 1/2 NW 1/4, SE 1/4 NW 1/4, NW 1/4 SE 1/4, E 1/2 SE 1/4, NE 1/4 Section 13; Section 36 except E 1/2 NE 1/4.

T.12N., R.10W. Willamette Meridian: NW 1/4, E 1/2 NE 1/4 Section 34; Section 36.

Critical Habitat includes only Private lands described within the following areas:

T.11N., R.10W. Willamette Meridian: S 1/2 NW 1/4, N 1/2 SW 1/4, SW 1/4 SW 1/4, that portion of the SE 1/4 SW 1/4 west of Ellsworth Creek, NW 1/4 SE 1/4, SW 1/4 NE 1/4 Section 35.

T.10N., R.10W. Willamette Meridian: NW 1/4 NW 1/4, NW 1/4 NE 1/4 Section 2; NE 1/4 NE 1/4 Section 3.



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Map and description of WA–05–c taken from United States Fish and Wildlife Service 1:100,000 map; Astoria, Oregon-Washington; 1995.

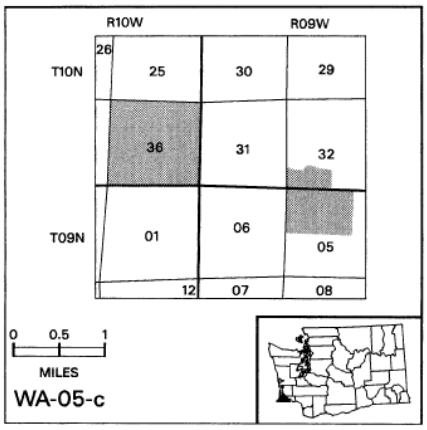
Critical Habitat includes only State or County lands described within the following areas:

T.10N., R.10W. Willamette Meridian: Section 36.

Critical Habitat includes only Private lands described within the following areas:

T.09N., R.09W. Willamette Meridian: NW1/4, W1/2 NE1/4 Section 5.

T.10N., R.09W. Willamette Meridian: That portion of the S1/2 SW1/4 Section 32 south of Bean Creek.



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Map and description of WA–05–d taken from United States Fish and Wildlife Service 1:100,000 map; Cape Flattery, Washington; Astoria, Oregon-Washington; 1995.

Critical Habitat includes only State or County lands described within the following areas:

T. 10N., R. 06W. Willamette Meridian: Sections 2–5; N 1/2 Section 6; S 1/2 SE 1/4, NE 1/4 SE 1/4, N 1/2 NE 1/4, SE 1/4 NE 1/4 Section 7; Sections 8–10; Sections 14–17; E 1/2 Section 18; Section 19; SW 1/4 NW 1/4, SW 1/4, W 1/2 NE 1/4, NE 1/4 NE 1/4 Section 20; Section 21–27; S 1/2 NW 1/4, S 1/2 Section 28; NE 1/4 Section 29; NW 1/4, W 1/2 NE 1/4 Section 30; N 1/2, N 1/2 SW 1/4 Section 33; N 1/2, W 1/2 SE 1/4 Section 34; N 1/2, SW 1/4, NW 1/4 SE 1/4 Section 35; N 1/2, NW 1/4 SW 1/4, S 1/2 SE 1/4, NE 1/4 SE 1/4 Section 36.

T. 10N., R. 08W. Willamette Meridian: N 1/2 NW 1/4, NW 1/4 NE 1/4 Section 1; Section 2; NW 1/4 Section 10; E 1/2 NW 1/4, N 1/2 SE 1/4, NE 1/4 Section 11; W 1/2 NW 1/4, SE 1/4 NW 1/4, SW 1/4 NE 1/4 Section 12.

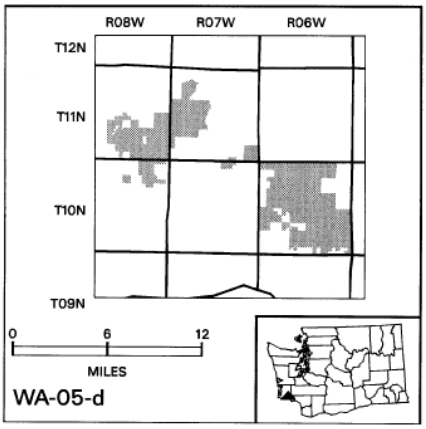
T. 11N., R. 07W. Willamette Meridian: N 1/2, SW 1/4, W 1/2 SE 1/4 Section 8; Section 16 except SE 1/4 SE 1/4; Sections 17–20; W 1/2, SW 1/4 SE 1/4 Section 21; N 1/2 Section 29; N 1/2, SW 1/4 Section 30; N 1/2 NW 1/4 Section 31; Section 36.

T. 11N., R. 08W. Willamette Meridian: S 1/2, S 1/2 NE 1/4 Section 21; NW 1/4 NW 1/4, S 1/2 NW 1/4, SE 1/4 Section 22; Sections 24–28; E 1/2 SE 1/4, NE 1/4 Section 33; N 1/2, SE 1/4 Section 34; Sections 35–36.

Critical Habitat includes only Private lands described within the following areas:

T. 10N., R. 07W. Willamette Meridian: N 1/2 NW 1/4, SW 1/4 NW 1/4 Section 2; NE 1/4 Section 3.

T. 11N., R. 07W. Willamette Meridian: S 1/2 SW 1/4 Section 35.



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Map and description of WA–05–e taken from United States Fish and Wildlife Service 1:100,000 map; Astoria, Oregon-Washington; 1995.

Critical Habitat includes only State or County lands described within the following areas:

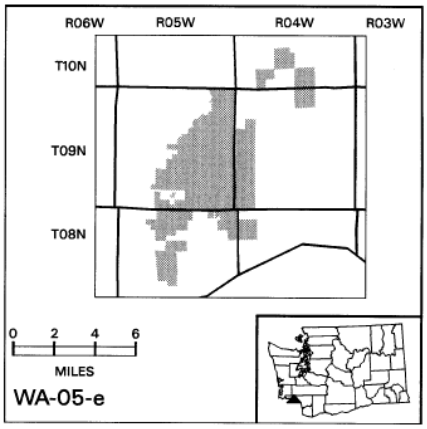
T. 08N., R. 04W. Willamette Meridian: S 1/2 Section 6; N 1/2 Section 7.

T. 08N., R. 05W. Willamette Meridian: Section 1; NE 1/4 Section 2; E 1/2, W 1/2 NE 1/4 Section 3; Section 4; N 1/2 SE 1/4, SE 1/4 SE 1/4 Section 5; NW 1/4, SE 1/4, N 1/2 NE 1/4 Section 9; SW 1/4 Section 10; NE 1/4 Section 12; Section 16; N 1/2, N 1/2 SE 1/4 Section 21.

T. 09N., R. 04W. Willamette Meridian: Section 3; SE 1/4 Section 7; Sections 18–19; Sections 30–31.

T. 09N., R. 05W. Willamette Meridian: Section 1; N 1/2 SE 1/4, SE 1/4 SE 1/4, N 1/2 NE 1/4, SE 1/4 NE 1/4 Section 2; SW 1/4 SE 1/4, E 1/2 SE 1/4 Section 10; Section 11 except N 1/2 NW 1/4; Sections 12–14; Section 15 except N 1/2 NW 1/4; S 1/2 SE 1/4 Section 16; SE 1/4, SE 1/4 NE 1/4 Section 21; Sections 22–28; SE 1/4 SE 1/4 Section 29; W 1/2 NW 1/4, SW 1/4, W 1/2 SE 1/4 SE 1/4 SE 1/4, E 1/2 NE 1/4 Section 33; Section 34 except NW 1/4; Sections 35–36.

T.10N., R.04W. Willamette Meridian: Section 28 except NE 1/4 NE 1/4; W 1/2, NE 1/4 Section 32; Section 34.



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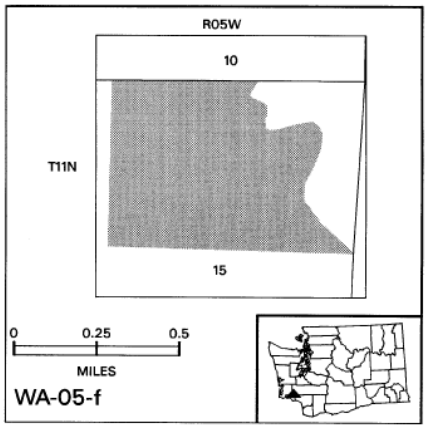
Map and description of WA–05–f taken from United States Fish and Wildlife Service 1:100,000 map; Astoria, Oregon-Washington; 1995.

Critical Habitat includes only Private lands described within the following areas:

T.11N., R.05W. Willamette Meridian: E 1/2 NW 1/4, that portion of the NE 1/4 west of the East Fork Chehalis River Section 15.



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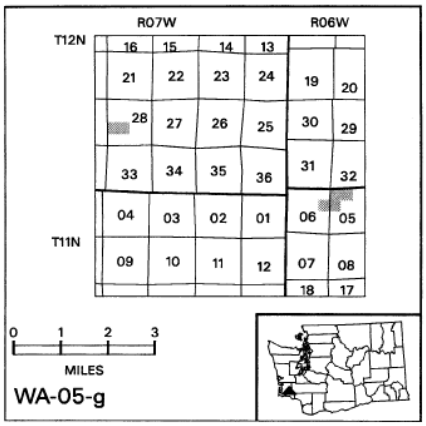
Map and description of WA–05–g taken from United States Fish and Wildlife Service 1:100,000 map; Astoria, Oregon-Washington; 1995.

Critical Habitat includes only Private lands described within the following areas:

T.11N., R.06W. Willamette Meridian: N 1/2 NW 1/4, SW 1/4 NW 1/4 Section 5; SE 1/4 NE 1/4 Section 6.

T.12N., R.07W. Willamette Meridian: N 1/2 SW 1/4 Section 28.



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Map and description of WA–05–h taken from United States Fish and Wildlife Service 1:100,000 map; Chehalis River, Washington; 1995.

Critical Habitat includes only State or County lands described within the following areas:

T.12N, R.05W. Willamette Meridian: NW 1/4 Section 6.

T.12N, R.06W. Willamette Meridian: NE 1/4 Section 1; N 1/2, N 1/2 S 1/2 Section 3; N 1/2 N 1/2 Section 6.

T.12N, R.07W. Willamette Meridian: N 1/2, N 1/2 SW 1/4 Section 1; N 1/2, N 1/2 S 1/2 Section 2, NE 1/4 Section 3.

T.12N, R.08W. Willamette Meridian: NE 1/4 Section 1.

T.13N, R.05W. Willamette Meridian: S 1/2 S 1/2 Section 7; NE 1/4 SW 1/4, S 1/2 SW 1/4, SE 1/4 Section 8; S 1/2 SW 1/4, NE 1/4 SW 1/4 Section 9; S 1/2 Section 10; Sections 15–21; Section 22 except SE 1/4 SW 1/4, SW 1/4 SE 1/4, E 1/2 E 1/2; N 1/2 NW 1/4, SW 1/4 NW 1/4 Section 27; NE 1/4 Section 28; Section 29–31; Section 32 except W 1/2 SW 1/4.

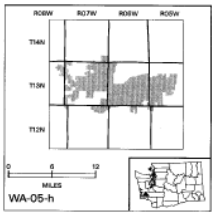
T.13N, R.06W. Willamette Meridian: NW 1/4, W 1/2 SW 1/4, NE 1/4 SW 1/4, W 1/2 NE 1/4 Section 5; Sections 6–7; W 1/2 NW 1/4 Section 8; S 1/2 SE 1/4 Section 10; S 1/2 SW 1/4, SE 1/4 Section 11; S 1/2 Section 12; Sections 13–15; SE 1/4 Section 16; Sections 18–33; Section 34 except SW 1/4 SW 1/4; Section 35; N 1/2, SW 1/4 NW 1/4, SW 1/4 SW 1/4, E 1/2 SE 1/4 Section 36.

T.13N, R.07W. Willamette Meridian: Sections 1–2; Section 3 except N 1/2 NW 1/4; N 1/2, W 1/2 SW 1/4 Section 6; W 1/2, SW 1/4 SE 1/4 Section 7; SE 1/4 NE 1/4, NE 1/4 SE 1/4 Section 9; Section 10 except NE 1/4; Sections 11–16; W 1/2 SW 1/4, SE 1/4 SW 1/4, S 1/2 SE 1/4, NE 1/4 SE 1/4, NE 1/4 Section 17; NW 1/4, E 1/2 Section 18; S 1/2 NW 1/4, S 1/2, E 1/2 NE 1/4 Section 19; N 1/2, SE 1/4 Section 20; Sections 21–24; Section 27; Section 29 except W 1/2 NW 1/4; S 1/2 Section 30; W 1/2 Section 31; NW 1/4, NW 1/4 NE 1/4, Section 32; Section 36.

T.13N, R.08W. Willamette Meridian: S 1/2 Section 1; S 1/2 SE 1/4 Section 2; N 1/2 NW 1/4, SE 1/4 SW 1/4, E 1/2 Section 12.

T.14N, R.06W. Willamette Meridian: SW 1/4 NW 1/4, W 1/2 SW 1/4 Section 31.

T.14N, R.07W. Willamette Meridian: SE 1/4 SE 1/4 Section 34; SW 1/4 SW 1/4, SE 1/4 SE 1/4 Section 35; Section 36.



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Map and description of WA–06–a taken from United States Fish and Wildlife Service 1:100,000 map; Port Angeles, Mt Olympus and Seattle, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.26N., R.02W. Willamette Meridian: W 1/2 SW 1/4, NE 1/4 SE 1/4, NE 1/4 Section 2; Section 3 except E 1/2 NE 1/4; NW 1/4, E 1/2 Section 4; W 1/2, W 1/2 SE 1/4, N 1/2 NE 1/4 Section 5; Sections 6–7; W 1/2, S 1/2 SE 1/4 Section 8; S 1/2 S 1/2, NE 1/4 NE 1/4 Section 9; Section 10 except SW 1/4 NW 1/4; Section 14 except E 1/2 SE 1/4; N 1/2 NW 1/4, S 1/2 SW 1/4, NE 1/4 SE 1/4, E 1/2 NE 1/4, NW 1/4 NE 1/4 Section 15; Section 16–21; W 1/2, SW 1/4 SE 1/4 Section 22; Section 27 except NE 1/4 NE 1/4.

T.26N., R.03W. Willamette Meridian: Sections 1–3; E 1/2, E 1/2 W 1/2 Section 10; Sections 11–13; Section 14 except the SW 1/4 SW 1/4; S 1/2 NW 1/4, NE 1/4 NW 1/4, SW 1/4, SW 1/4 SE 1/4, NE 1/4 Section 15; S 1/2 Section 16; SE 1/4 SE 1/4 Section 17; S 1/2 N 1/2, N 1/2 S 1/2 Section 19; S 1/2 NW 1/4, NE 1/4 NW 1/4, N 1/2 SW 1/4, NE 1/4 Section 20; NE 1/4 Section 21; N 1/2 NW 1/4, N 1/2 SE 1/4, NE 1/4 Section 22; Section 23 except SW 1/4 SW 1/4, NE 1/4 SE 1/4; Section 24 except N 1/2 SW 1/4.

T.26N., R.04W. Willamette Meridian: E 1/2 NW 1/4, NE 1/4 SW 1/4, NE 1/4 Section 24.

T.27N., R.02W. Willamette Meridian: SW 1/4 SW 1/4 Section 5; Section 6 except NE 1/4 NE 1/4; Section 7; W 1/2 W 1/2 Section 8; W 1/2, W 1/2 SE 1/4 Section 17; Sections 18–19; Section 20 except the NE 1/4 NE 1/4; S 1/2 NW 1/4, SW 1/4 Section 28; Sections 29–33; W 1/2, N 1/2 NE 1/4 Section 34; N 1/2 NW 1/4, E 1/2 Section 35.

T.27N., R.03W. Willamette Meridian: Sections 1–2; N 1/2 SE 1/4, SE 1/4 SE 1/4, NE 1/4 Section 3; Section 11–13; Section 14 except SW 1/4 NW 1/4; SE 1/4 Section 15; E 1/2, SE 1/4 SW 1/4 Section 22; Sections 23–26; Section 27 except NW 1/4 NW 1/4; S 1/2 Section 28; E 1/2 NW 1/4, NE 1/4 Section 33; N 1/2 NW 1/4, SE 1/4 NW 1/4, S 1/2 SW 1/4, NE 1/4 SW 1/4, E 1/2 Section 34; Sections 35–36.

T.28N., R.02W. Willamette Meridian: N 1/2 N 1/2, SW 1/4 NE 1/4 Section 5; SW 1/4 SW 1/4 Section 7; S 1/2 SW 1/4 Section 8; N 1/2 NW 1/4, NW 1/4 SE 1/4, S 1/2 SE 1/4 Section 17; NW 1/4, S 1/2 NE 1/4 Section 18; NW 1/4, S 1/2 SW 1/4 Section 20; SW 1/4 Section 28; NW 1/4, W 1/2 NE 1/4 Section 29; SE 1/4 SW 1/4, S 1/2 SE 1/4 Section 30; S 1/2 NW 1/4, SW 1/4, W 1/2 SE 1/4, N 1/2 NE 1/4 Section 31.

T.28N., R.03W. Willamette Meridian: N 1/2, W 1/2 SE 1/4, NE 1/4 SE 1/4 Section 1; W 1/2, SW 1/4 SE 1/4, NE 1/4 Section 2; Sections 3–10; W 1/2, NW 1/4 SE 1/4, S 1/2 SE 1/4 Section 11; S 1/2 SW 1/4, NE 1/4 SW 1/4, SE 1/4, SE 1/4 NE 1/4 Section 12; Sections 13–23; N 1/2, NW 1/4 SW 1/4, NE 1/4 SE 1/4 Section 24; N 1/2 SW 1/4, W 1/2 NW 1/4 Section 25; Sections 26–29; N 1/2, N 1/2 SW 1/4, SW 1/4 SW 1/4, N 1/2 SE 1/4 Section 30; NE 1/4 NW 1/4, E 1/2 Section 32; Section 33 except S 1/2 SW 1/4, SW 1/4 SE 1/4; Section 34; Section 35 except NE 1/4 SE 1/4, SE 1/4 NE 1/4; SE 1/4 Section 36.

T.28N., R.04W. Willamette Meridian: NE 1/4 NE 1/4 Section 1; SE 1/4 SE 1/4, SE 1/4 NE 1/4 Section 12; S 1/2 SW 1/4, NE 1/4 SW 1/4, SE 1/4, SW 1/4 NE 1/4, E 1/2 NE 1/4 Section 13; E 1/2 SE 1/4, SE 1/4 NE 1/4 Section 23; Sections 24–25; SE 1/4 SW 1/4, S 1/2 SE 1/4, NE 1/4 SE 1/4, E 1/2 NE 1/4 Section 26; E 1/2 W 1/2, E 1/2 Section 35; NW 1/4, N 1/2 SW 1/4, SW 1/4 SW 1/4, N 1/2 NE 1/4, SW 1/4 NE 1/4 Section 36.

T.29N., R.02W. Willamette Meridian: W 1/2 NW 1/4, SE 1/4 NW 1/4, S 1/2, S 1/2 NE 1/4 Section 30; SW 1/4 NW 1/4, W 1/2 SW 1/4, NE 1/4 SE 1/4 Section 31; W 1/2 NW 1/4, SE 1/4 NW 1/4, SW 1/4, W 1/2 SE 1/4 Section 32.

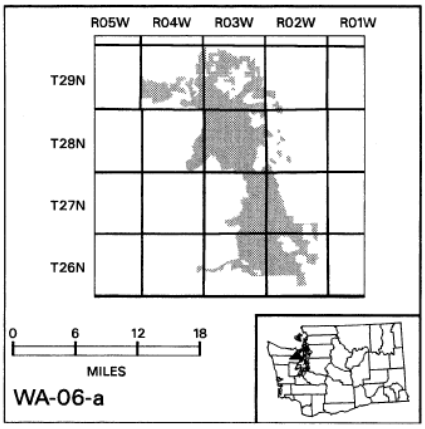
T.29N., R.03W. Willamette Meridian: Section 19; NW 1/4, W 1/2 SW 1/4 Section 20; SE 1/4 SE 1/4 Section 22; SE 1/4 NW 1/4, S 1/2, SW 1/4 NE 1/4, E 1/2 NE 1/4 Section 23; Section 24 except NE 1/4 SE 1/4, SE 1/4 NE 1/4; Section 25; N 1/2, N 1/2 SW 1/4, E 1/2 SE 1/4 Section 26; S 1/2, SW 1/4 NE 1/4, E 1/2 NE 1/4 Section 27; SE 1/4 NW 1/4, SW 1/4 Section 28; Section 29 except NE 1/4 NE 1/4; Sections 30–34; S 1/2, SW 1/4 NW 1/4, NE 1/4 NE 1/4 Section 35; Section 36.

T.29N., R.04W. Willamette Meridian: S 1/2, S 1/2 NW 1/4, NW 1/4 NW 1/4, SW 1/4 NE 1/4 Section 19; S 1/2 Section 20; S 1/2 Section 21; E 1/2 W 1/2, SW 1/4 SW 1/4, W 1/2 SE 1/4, NE 1/4 Section 22; E 1/2 SW 1/4, NW 1/4 SW 1/4, E 1/2, NW 1/4 NW 1/4 Section 23; Section 24; Section 25 except NW 1/4 NW 1/4; W 1/2 NW 1/4, NE 1/4 SW 1/4, E 1/2 Section 26; N 1/2, N 1/2 SE 1/4 Section 27; Sections 28–30; N 1/2 Section 32; N 1/2 NW 1/4, SW 1/4 NW 1/4, NW 1/4 NE 1/4 Section 33; E 1/2 NE 1/4, SW 1/4 NE 1/4, NE 1/4 SW 1/4 Section 34; W 1/2 NW 1/4, SE 1/4 NW 1/4, N 1/2 SW 1/4, NE 1/4 SW 1/4, N 1/2 SE 1/4, S 1/2 NE 1/4, NE 1/4 NE 1/4 Section 35; Section 36 except SW 1/4 SW 1/4.

Critical Habitat includes only State or County lands described within the following areas:

T.29N., R.03W. Willamette Meridian: W 1/2 SW 1/4, SE 1/4 SW 1/4, SW 1/4 SE 1/4 Section 4; S 1/2 SW 1/4, SE 1/4, SW 1/4 NE 1/4 Section 5; SW 1/4 NW 1/4, W 1/2 SW 1/4, S 1/2 SE 1/4 Section 6; Section 7 except E 1/2 NW 1/4; Sections 8–9; W 1/2 NW 1/4, SE 1/4 NW 1/4, SW 1/4, NW 1/4 SE 1/4, NE 1/4 Section 10; NW 1/4, E 1/2 SW 1/4, SE 1/4, SE 1/4 NE 1/4 Section 11; NW 1/4, E 1/2 SW 1/4 Section 13; Section 14 except W 1/2 NW 1/4, SE 1/4 NW 1/4; N 1/2 NW 1/4 Section 15; W 1/2, NW 1/4 NE 1/4, NW 1/4 SE 1/4 Section 16; Section 17; NW 1/4 NW 1/4, E 1/2 NW 1/4, NE 1/4 SW 1/4, E 1/2 Section 18; S 1/2 NW 1/4, NE 1/4 SE 1/4, NE 1/4 Section 21; NE 1/4 NE 1/4 Section 28.

T.29N, R.04W. Willamette Meridian: E 1/2 SE 1/4, SW 1/4 SE 1/4 Section 1; E 1/2, SE 1/4 SW 1/4 Section 12; E 1/2 NW 1/4, NE 1/4 SW 1/4, N 1/2 SE 1/4, SW 1/4 SE 1/4, NE 1/4 Section 18.



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Map and description of WA–06–b taken from United States Fish and Wildlife Service 1:100,000 map; Mt Olympus and Shelton, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.23N., R.04W. Willamette Meridian: NW 1/4, N 1/2 NE 1/4 Section 3; Section 4 except SE 1/4 SE 1/4; Sections 5–6; N 1/2 Section 7; N 1/2 Section 8; NW 1/4 Section 9.

T.23N., R.05W. Willamette Meridian: E 1/2 SW 1/4, SE 1/4 Section 3; NE 1/4 NW 1/4, NE 1/4 SE 1/4, NE 1/4 Section 10; S 1/2 N 1/2, N 1/2 S 1/2 Section 11; S 1/2 NW 1/4, NE 1/4 NW 1/4, NE 1/4 Section 12.

T.24N., R.03W. Willamette Meridian: Sections 5–6; NW 1/4, NW 1/4 NE 1/4 Section 7.

T.24N., R.04W. Willamette Meridian: Sections 1–5; E 1/2 E 1/2 Section 6; Section 7 except NW 1/4 NW 1/4, SE 1/4 SE 1/4; Sections 8–16; SE 1/4 SW 1/4, E 1/2 Section 17; N 1/2 NW 1/4 Section 18; N 1/2 SE 1/4, SE 1/4 SE 1/4, S 1/2 NE 1/4, NE 1/4 NE 1/4 Section 19; Sections 20–24; Section 25 except SE 1/4 SE 1/4; Sections 26–29; SE 1/4, S 1/2 NE 1/4, NE 1/4 NE 1/4 Section 30; Section 31 except NW 1/4 NW 1/4; Sections 32–35; N 1/2 NW 1/4 Section 36.

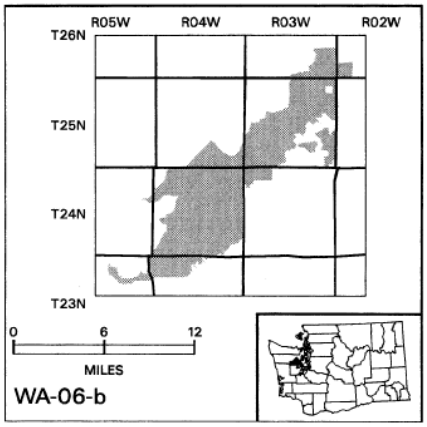
T.24N., R.05W. Willamette Meridian: SE 1/4 SE 1/4 Section 12; N 1/2 NW 1/4, NE 1/4 Section 13.

T.25N., R.03W. Willamette Meridian: Section 1 except E 1/2 SW 1/4, W 1/2 SE 1/4; Sections 2–3; E 1/2 E 1/2 Section 4; E 1/2 E 1/2 Section 9; Sections 10–12; N 1/2, N 1/2 SE 1/4, SE 1/4 SE 1/4 Section 13; Sections 14–15; Section 16 except NW 1/4 NW 1/4; SE 1/4 NW 1/4, S 1/2, S 1/2 NE 1/4 Section 17; SE 1/4 SE 1/4 Section 18; E 1/2 NW 1/4, S 1/2 SW 1/4, NE 1/4 SW 1/4, E 1/2 Section 19; Sections 20–21; Section 22 except S 1/2 SE 1/4; SE 1/4 Section 23; S 1/2 NW 1/4, S 1/2 Section 24; Section 25; S 1/2 NW 1/4, SW 1/4, E 1/2 SE 1/4, SW 1/4 NE 1/4 Section 26; NW 1/4, N 1/2 S 1/2, S 1/2 NE 1/4 Section 27; Sections 28–32; Section 33 except E 1/2 E 1/2, SW 1/4 SE 1/4; SE 1/4 NW 1/4, E 1/2 SW 1/4; NW 1/4 SE 1/4, NE 1/4 Section 36.

T.25N., R.04W. Willamette Meridian: E 1/2 E 1/2, SW 1/4 SE 1/4 Section 25; SW 1/4 Section 26; S 1/2, S 1/2 NE 1/4 Section 27; S 1/2, NE 1/4 Section 33; Sections 34–36.

T.26N., R.02W. Willamette Meridian: Section 31.

T.26N., R.03W. Willamette Meridian: Section 25; E 1/2 Section 26; S 1/2 Section 34; Section 35 except W 1/2 NW 1/4; Section 36.



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Map and description of WA–07–a taken from United States Fish and Wildlife Service 1:100,000 map; Bellingham and Mt. Baker, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.37N., R.06E. Willamette Meridian: NE 1/4 Section 1.

T.37N., R.07E. Willamette Meridian: W 1/2, W 1/2 E 1/2 Section 3; Sections 4–5; N 1/2, N 1/2 SE 1/4 Section 6; NE 1/4 NW 1/4, N 1/2 NE 1/4 Section 8; NE 1/4 NW 1/4, NW 1/4 NE 1/4 Section 10.

T.38N., R.06E. Willamette Meridian: Section 1; Sections 12–13; E 1/2, E 1/2 W 1/2 Section 36.

T.38N., R.07E. Willamette Meridian: NW 1/4, N 1/2 SW 1/4, SW 1/4 SW 1/4 Section 3; Sections 4–8; Section 9 except S 1/2 SE 1/4; W 1/2 NW 1/4 Section 10; NW 1/4 Section 16; Section 17 except E 1/2 SE 1/4; Sections 18–19; NW 1/4, W 1/2 NE 1/4, NW 1/4 SW 1/4 Section 20; SW 1/4, W 1/2 SE 1/4 Section 27; E 1/2 SE 1/4 Section 28; SW 1/4 SW 1/4 Section 29; Section 30 except NE 1/4 SE 1/4; Sections 31–33; W 1/2 Section 34.

T.39N., R.06E. Willamette Meridian: Section 25; Section 36.

T.39N., R.07E. Willamette Meridian: Sections 1–4; Section 5 except SW 1/4 SW 1/4, SE 1/4 SE 1/4; E 1/2 Section 8; Sections 9–12; Sections 14–15; N 1/2, SE 1/4 Section 16; NE 1/4 Section 17; Section 21 except NW 1/4; W 1/2 Section 22; NE 1/4 NW 1/4, N 1/2 NE 1/4 Section 23; W 1/2, SW 1/4 NE 1/4 Section 27; Section 28; W 1/2 SW 1/4 Section 30; Sections 31–33; W 1/2 Section 34.

T.39N., R.08E. Willamette Meridian: Sections 1–12; W 1/2 Section 15; Sections 16–17; SE 1/4 SW 1/4, SE 1/4, S 1/2 NE 1/4, NE 1/4 NE 1/4 Section 19; Sections 20–21; W 1/2 Section 22.

T.39N., R.09E. Willamette Meridian: N 1/2 NW 1/4, SW 1/4 NW 1/4, NW 1/4 SW 1/4, S 1/2 SW 1/4, N 1/2 NE 1/4 Section 3; Sections 4–8; Section 9 except SW 1/4 SE 1/4; Section 10 except E 1/2 E 1/2; SW 1/4 NW 1/4, NW 1/4 SW 1/4 Section 14; NE 1/4 NW 1/4, NE 1/4 SE 1/4, NE 1/4 Section 15; W 1/2 Section 16; Section 17; NE 1/4, N 1/2 SE 1/4, SE 1/4 SE 1/4 Section 18; NE 1/4 NW 1/4, NE 1/4 Section 20; NW 1/4, N 1/2 SW 1/4, W 1/2 NE 1/4 Section 21.

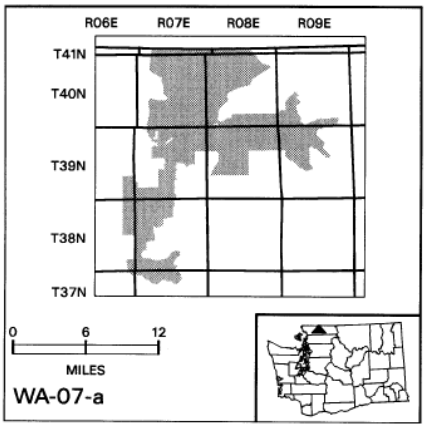
T.40N., R.07E. Willamette Meridian: Sections 1–4; E 1/2, E 1/2 W 1/2 Section 5; E 1/2 NW 1/4, N 1/2 SE 1/4, NE 1/4 Section 8; Section 9 except SW 1/4 SW 1/4; Sections 10–15; E 1/2 NW 1/4, E 1/2 Section 16; SE 1/4, E 1/2 SW 1/4 Section 20; SW 1/4, E 1/2 Section 21; Sections 22–28; E 1/2 W 1/2, E 1/2 Section 29; Sections 32–36.

T.40N., R.08E. Willamette Meridian: Section 2 except NE 1/4, NE 1/4 NW 1/4, NE 1/4 SE 1/4; Sections 3–10; Section 11 except S 1/2 SE 1/4; NW 1/4 Section 12; NW 1/4, N 1/2 SW 1/4, NW 1/4 SE 1/4, NE 1/4 Section 15; Sections 16–20; NW 1/4, W 1/2 SW 1/4, NW 1/4 NE 1/4 Section 29; Sections 30–31; S 1/2, W 1/2 NW 1/4, S 1/2 NE 1/4 Section 32; Section 33 except NW 1/4 NW 1/4; Sections 34–36.

T.40N., R.09E. Willamette Meridian: SE 1/4 SE 1/4 Section 19; S 1/2 NW 1/4, SW 1/4, W 1/2 E 1/2 Section 20; Section 29 except E 1/2 SE 1/4, SE 1/4 NE 1/4; S 1/2 SW 1/4, NE 1/4 SW 1/4, S 1/2 SE 1/4, NE 1/4 SE 1/4, E 1/2 NE 1/4 Section 30; Sections 31–32; S 1/2 S 1/2, N 1/2 SE 1/4 Section 33; Section 34 except N 1/2 N 1/2; S 1/2 N 1/2, SW 1/4, N 1/2 SE 1/4, SW 1/4 SE 1/4 Section 35.

T.41N., R.07E. Willamette Meridian: Sections 32–36.

T.41N., R.08E. Willamette Meridian: Sections 31–34, W 1/2 SW 1/4 Section 35.



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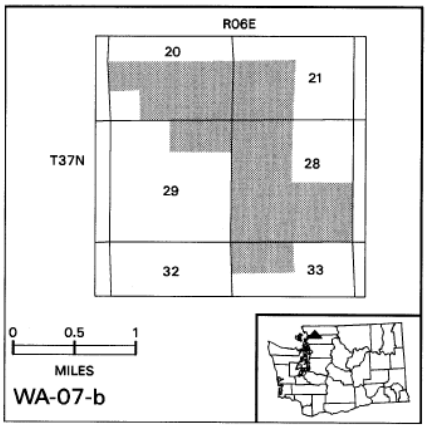
Map and description of WA–07–b taken from United States Fish and Wildlife Service 1:100,000 map; Bellingham, Washington; 1995.

Critical Habitat includes only State or County lands described within the following areas:

T.37N., R.06E. Willamette Meridian: SW 1/4 SW 1/4 Section 20; NE 1/4 NE 1/4 Section 28.

Critical Habitat includes only Private lands described within the following areas:

T.37N., R.06E. Willamette Meridian: N 1/2 SW 1/4, SE 1/4 SW 1/4, SE 1/4 Section 20; SW 1/4 Section 21; Section 28 except NE 1/4; N 1/2 NE 1/4 Section 29; N 1/2 NW 1/4 Section 33.



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Map and description of WA–07–c taken from United States Fish and Wildlife Service 1:100,000 map; Mt Baker and Sauk River, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.35N., R.09E. Willamette Meridian: Sections 1–2; E 1/2 W 1/2, E 1/2 Section 11; Section 12; NE 1/4 NE 1/4 Section 13; NE 1/4 NW 1/4, N 1/2 NE 1/4 Section 14.

T.35N., R.10E. Willamette Meridian: W 1/2 NW 1/4, SE 1/4 NW 1/4, SW 1/4, S 1/2 SE 1/4 Section 6; Section 7; Section 8 except N 1/2 NE 1/4; W 1/2 SW 1/4 Section 9; N 1/2 NW 1/4 Section 17; N 1/2 NE 1/4, NW 1/4 Section 18.

T.36N., R.07E. Willamette Meridian: Section 1; E 1/2 SE 1/4, NE 1/4 Section 2; Section 3; E 1/2 E 1/2 Section 4.

T.36N., R.08E. Willamette Meridian: Section 5; W 1/2 W 1/2 Section 6.

T.36N., R.09E. Willamette Meridian: Sections 1–4; E 1/2 Section 5; Section 8 except S 1/2 SE1/4; W 1/2 NW 1/4, NW 1/4 SW 1/4, NE 1/4 NE 1/4 Section 9; N 1/2 NW 1/4, N 1/2 SE 1/4, SE 1/4 SE 1/4, NW 1/4 NE 1/4 Section 10; Section 11 except S 1/2 NW 1/4, NE 1/4 NW 1/4; Sections 12–15; Sections 21–24; S 1/2 NW 1/4 Section 26; Section 27 except SW 1/4 SW 1/4; Section 28 except SE 1/4 SE 1/4; S 1/2, S 1/2 NE 1/4, SE 1/4 NW 1/4 Section 33.

T.36N., R.10E. Willamette Meridian: SW 1/4 SW 1/4 Section 5; S 1/2 S 1/2 Section 6; Section 7; W 1/2 W 1/2 Section 8; W 1/2, W 1/2 SE 1/4 Section 17; Sections 18–20; SW 1/4 Section 21; W 1/2 Section 28; Sections 29–30; N 1/2, SW 1/4 Section 31; N 1/2 N 1/2 Section 32; N 1/2 NW 1/4 Section 33.

T.37N., R.07E. Willamette Meridian: S 1/2 SE 1/4 Section 9; S 1/2, S 1/2 NE 1/4 Section 10; S 1/2, NE 1/4 Section 11; SW 1/4 NW 1/4, NW 1/4 SW 1/4 Section 12; W 1/2 NW 1/4, W 1/2 SW 1/4, SE 1/4 SW 1/4, S 1/2 SE 1/4 Section 13; Sections 14–15; Section 16 except NW 1/4 NW 1/4; E 1/2 SE 1/4 Section 17; NE 1/4 NE 1/4 Section 20; Sections 21–27; Section 28 except E 1/2 E 1/2, SE 1/4 SW 1/4; E 1/2, NE 1/4 NW 1/4 Section 33; Sections 34–36.

T.37N., R.08E. Willamette Meridian: Sections 1–3; N 1/2 NW 1/4, SE 1/4 NW 1/4, N 1/2 SE 1/4 SE 1/4 SE 1/4, NE 1/4 Section 4; NE 1/4 SW 1/4, SE 1/4, S 1/2 NE 1/4 Section 7; S 1/2 Section 8; Section 9 except N 1/2 NW 1/4; Sections 10–16; N 1/2, N 1/2 SE 1/4 Section 17; SW 1/4 SW 1/4, NE 1/4 NE 1/4 Section 18; Section 19; Section 20 except NE 1/4 NE 1/4; Section 21 except NW 1/4 NW 1/4; Sections 22–36.

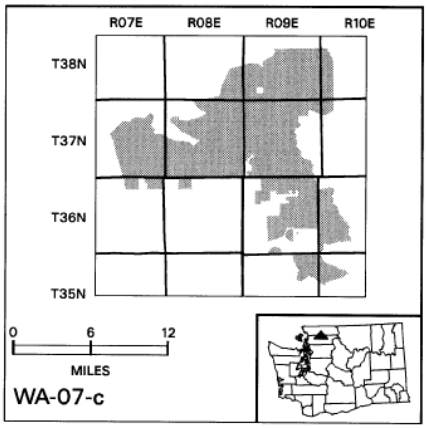
T.37N., R.09E. Willamette Meridian: Sections 1–10; N 1/2 N 1/2, SW 1/4 NW 1/4, W 1/2 SW 1/4, SE 1/4 SW 1/4 Section 11; NE 1/4 NE 1/4 Section 12; N 1/2 NW 1/4, W 1/2 SW 1/4 Section 14; Sections 15–22; W 1/2 W 1/2, SE 1/4 SW 1/4 Section 23; SW 1/4 SW 1/4 Section 25; W 1/2, SE 1/4 Section 26; Sections 27–29; Section 30 except SW 1/4 SW 1/4; Section 31 except NW 1/4 NW 1/4, S 1/2 NW 1/4, SW 1/4 SW 1/4; Sections 32–35; W 1/2 Section 36.

T.37N., R.10E. Willamette Meridian: Section 6; N 1/2 NW 1/4, NW 1/4 NE 1/4 Section 7.

T.38N., R.08E. Willamette Meridian: E 1/2 SE 1/4 Section 23; S 1/2, S 1/2 NE 1/4 Section 24; Section 25; E 1/2, E 1/2 SW 1/4 Section 26; S 1/2 SW 1/4 Section 33; S 1/2 S 1/2 Section 34; Section 35 except W 1/2 NW 1/4; Section 36.

T.38N., R.09E. Willamette Meridian: Sections 13–15; Section 16 except W 1/2 NW 1/4; S 1/2 SE 1/4 Section 17; Section 19 except N 1/2 N 1/2; Section 20 except N 1/2 NW 1/4; Sections 21–31; Section 32 except NW 1/4; Sections 33–36.

T.38N., R.10E. Willamette Meridian: Section 18 except N 1/2 NE 1/4; Section 19; Sections 30–31.



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Map and description of WA–07–d taken from United States Fish and Wildlife Service 1:100,000 map; Cape Flattery, Mt Baker and Sauk River, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.34N, R.12E. Willamette Meridian: Sections 1–3; NE 1/4 NW 1/4, N 1/2 NE 1/4 Section 10; N 1/2 N 1/2 Section 11; N 1/2 NW 1/4, NW 1/4 NE 1/4 Section 12.

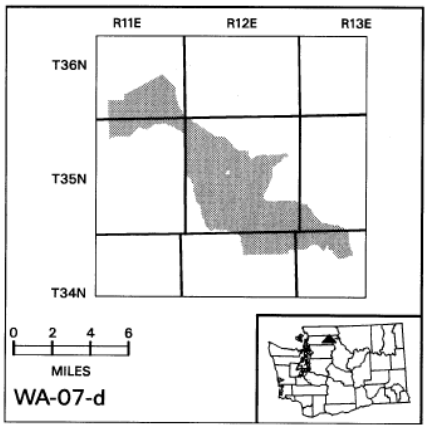
T.34N, R.13E. Willamette Meridian: W 1/2 Section 4; Sections 5–6; N 1/2 NW 1/4, N 1/2 NE 1/4, SE 1/4 NE 1/4, NE 1/4 SE 1/4 Section 8; NW 1/4, W 1/2 NE 1/4 Section 9.

T.35N, R.11E. Willamette Meridian: N 1/2, N 1/2 SE 1/4 Section 1; N 1/2, NW 1/4 SW 1/4 Section 2; N 1/2, N 1/2 SW 1/4, SW 1/4 SW 1/4 Section 3; Section 4.

T.35N, R.12E. Willamette Meridian: S 1/2 SW 1/4, NW 1/4 SW 1/4 Section 5; W 1/2, SE 1/4, S 1/2 NE 1/4 Section 6; Sections 7–8; Section 9 except NE 1/4, NE 1/4 SE 1/4, NE 1/4 NW 1/4; SW 1/4 SW 1/4 Section 10; N 1/2 NW 1/4, SW 1/4 NW 1/4 Section 13; Section 14 except S 1/2 SE 1/4; Sections 15–18; Section 19 except SW 1/4 NW 1/4, W 1/2 SW 1/4; Sections 20–22; NW 1/4, N 1/2 SW 1/4, SW 1/4 SW 1/4 Section 23; S 1/2, S 1/2 N 1/2 Section 25; S 1/2, S 1/2 N 1/2, NW 1/4 NW 1/4 Section 26; Sections 27–29; NE 1/4, E 1/2 SE 1/4 Section 30; NE 1/4 NW 1/4 Section 31; Sections 32–36.

T.35N, R.13E. Willamette Meridian: SW 1/4, SW 1/4 SE 1/4 Section 30; Section 31 except NE 1/4 NE 1/4; SW 1/4, S 1/2 SE 1/4 Section 32; S 1/2 SW 1/4 Section 33.

T.36N, R.11E. Willamette Meridian: SE 1/4 SW 1/4, SE 1/4 Section 23; SW 1/4 SW 1/4 Section 24; W 1/2 Section 25; Section 26; Section 27 except N 1/2 NW 1/4, NW 1/4 NE 1/4; E 1/2 SE 1/4 Section 28; Sections 33–35; Section 36 except E 1/2 NE 1/4.



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Map and description of WA–08–a taken from United States Fish and Wildlife Service 1:100,000 map; Bellingham, Mt. Baker and Sauk River, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.32N., R.08E. Willamette Meridian: N 1/2 Section 1; N 1/2 Section 3; NW 1/4 NW 1/4, S 1/2 NW 1/4, NE 1/4 Section 4; N 1/2 Section 5; N 1/2 Section 6.

T.33N., R.08E. Willamette Meridian: Sections 1–30; Section 31 except S 1/2 SE 1/4; Section 32; Section 33 except S 1/2 SE 1/4; Section 34 except SE 1/4 SW 1/4; Section 35; Section 36 except N 1/2 SE 1/4, SE 1/4 NE 1/4.

T.33N., R.09E. Willamette Meridian: W 1/2, W 1/2 E 1/2 Section 2; Section 3 except S 1/2 SW 1/4; Sections 4–8; Section 9 except E 1/2 SE 1/4, SE 1/4 NE 1/4; E 1/2 E 1/2, NW 1/4 NE 1/4 Section 10; W 1/2, NW 1/4 SE 1/4, W 1/2 NE 1/4 Section 11; NW 1/4 NW 1/4 Section 14; NE 1/4 NE 1/4 Section 15; W 1/2 Section 16; Sections 17–20; Section 21 except NE 1/4; S 1/2 SW 1/4 Section 22; N 1/2 NW 1/4 Section 29; NW 1/4, W 1/2 SW 1/4, N 1/2 NE 1/4 Section 30.

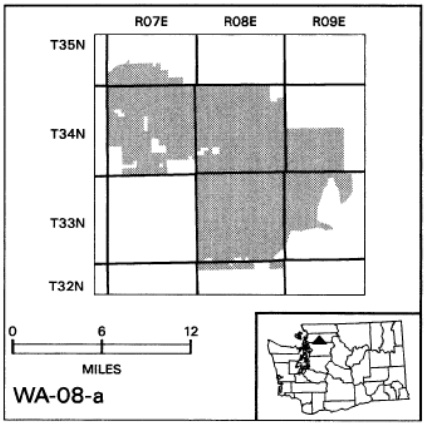
T.34N., R.07E. Willamette Meridian: Sections 1–6; Section 7 except N 1/2 SE 1/4, SE 1/4 SE 1/4; Section 8

except SW 1/4 SW 1/4; Sections 9–15; Section 16 except W 1/2 E 1/2; Sections 17–21; Section 22 except SW 1/4; Sections 23–26; S 1/2 Section 27; Sections 28–29; N 1/2 NW 1/4, S 1/2, NW 1/4 NE 1/4 Section 32; Section 33; Section 34 except SW 1/4 NE 1/4.

T.34N., R.08E. Willamette Meridian: Sections 2–11; Section 12 except N 1/2 NW1/4; Sections 13–28; Section 29 except S 1/2 NW 1/4, N 1/2 SW 1/4; Section 30 except SE 1/4 NW 1/4, N 1/2 SW 1/4, SW 1/4 NE 1/4; Sections 31–36.

T.34N., R.09E. Willamette Meridian: Sections 19–22; Sections 27–34.

T.35N., R.07E. Willamette Meridian: S 1/2 SW 1/4, NE 1/4 SW 1/4 Section 27; S 1/2 Section 28; Section 29 except NW 1/4 NW 1/4, NE 1/4; SE 1/4 SW 1/4, SE 1/4 Section 30; Sections 31–34; S 1/2 Section 35.



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Map and description of WA–08–b taken from United States Fish and Wildlife Service 1:100,000 map; Sauk River, Washington; 1995.

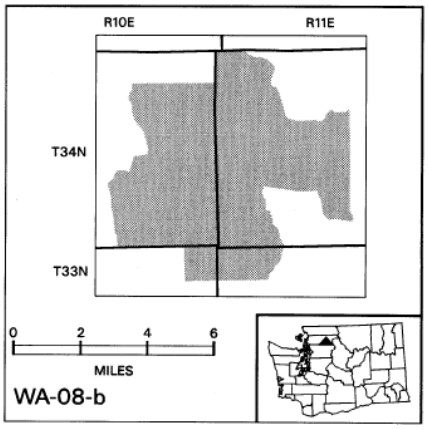
Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.33N., R.10E. Willamette Meridian: Section 1.

T.33N., R.11E. Willamette Meridian: Section 5 except E 1/2 SE 1/4; Section 6.

T.34N., R.10E. Willamette Meridian: SE 1/4 NW 1/4, NE 1/4 SW 1/4, E 1/2 Section 10; Sections 11–14; NW 1/4 NE 1/4, E 1/2 E 1/2 Section 15; E 1/2 SE 1/4 Section 21; Section 22 except NW 1/4, NW 1/4 NE 1/4; Sections 23–27; NW 1/4 NE 1/4, E 1/2 E 1/2 Section 28; NE 1/4 SE 1/4, E 1/2 NE 1/4 Section 33; Sections 34–36.

T.34N., R.11E. Willamette Meridian: Section 5 except N 1/2 NE 1/4, NE 1/4 NW 1/4; Sections 6–8; W 1/2 SW 1/4 Section 9; S 1/2 SE 1/4, SE 1/4 SW 1/4 Section 10; SW 1/4 SW 1/4 Section 11; W 1/2 W 1/2 Section 14; Section 15 except NW 1/4 NW 1/4; Section 16 except N 1/2 NE 1/4; Sections 17–22; W 1/2 W 1/2 Section 23; W 1/2 W 1/2 Sections 26–27 except W 1/2 SW 1/4; N 1/2 Section 28; W 1/2, N 1/2 NE 1/4, SE 1/4 NE 1/4, W 1/2 SE 1/4 Section 29; Sections 30–31; Section 32 except NE 1/4 NE 1/4; NE 1/4 NW 1/4, N 1/2 NE 1/4 Section 34; NW 1/4 NW 1/4 Section 35.



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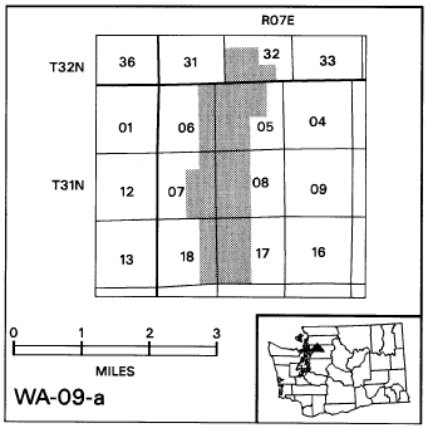
Map and description of WA–09–a taken from United States Fish and Wildlife Service 1:100,000 map; Sauk River, Washington; 1995.

Critical Habitat includes only Federal lands described within the following areas:

T.31N., R.07E. Willamette Meridian: W 1/2, W 1/2 NE 1/4 Section 5; E 1/2 E 1/2 Section 6; SE 1/4, S 1/2 NE 1/4, NE 1/4 NE 1/4 Section 7; W 1/2 Section 8; W 1/2 Section 17; E 1/2 E 1/2 Section 18.

T.32N., R.07E. Willamette Meridian: SW 1/4, SW 1/4 SE 1/4 Section 32.



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Map and description of WA–09–b taken from United States Fish and Wildlife Service 1:100,000 map; Sauk River, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.29N., R.09E. Willamette Meridian: Section 1; N 1/2 Section 2; Sections 3–6; N 1/2 Section 7; N 1/2 Section 8; N 1/2 Section 9; NW 1/4 Section 10.

T.29N., R.10E. Willamette Meridian: Sections 1–3; W 1/2 Section 6; Sections 11–13.

T.29N., R.11E. Willamette Meridian: W 1/2 NW 1/4 Section 2; NE 1/4, NE 1/4 NW 1/4 Section 3; NW 1/4 NW 1/4 Section 5; Sections 6–7; W 1/2 NW 1/4, SW 1/4, S 1/2 SE 1/4, NW 1/4 SE 1/4 Section 17; Section 18; N 1/2 NW 1/4, SE 1/4 NW 1/4, NE 1/4, N 1/2 SE 1/4 Section 19; N 1/2, N 1/2 SW 1/4, NW 1/4 SE 1/4 Section 20.

T.30N., R.08E. Willamette Meridian: Sections 1–3; N 1/2 Section 4; N 1/2 Section 5; N 1/2, SE 1/4 Section 11; Sections 12–13; E 1/2 Section 14; SW 1/4 Section 15; Sections 16–17; Section 18 except S 1/2 NW 1/4, N 1/2 SW 1/4; Sections 19–26; N 1/2 Section 27; N 1/2 Section 28; N 1/2, SE 1/4 Section 35.

T.30N., R.09E. Willamette Meridian: NW 1/4, SE 1/4, N 1/2 NE 1/4, SW 1/4 NE 1/4 Section 1; E 1/2 NE 1/4 Section 2; W 1/2, SW 1/4 SE 1/4, N 1/2 NE 1/4 Section 6; Section 7; S 1/2 NW 1/4, S 1/2, SW 1/4 NE 1/4 Section 8; S 1/2 SE 1/4 Section 9; S 1/2 SW 1/4 Section 10; E 1/2 NW 1/4, NE 1/4 Section 12; S 1/2 NW 1/4, SW 1/4, W 1/2 SE 1/4 Section 14; Section 15; Section 16 except NW 1/4 NW 1/4; SE 1/4, S 1/2 NE 1/4 Section 17; W 1/2 Section 18; Section 19 except W 1/2 NE 1/4; Section 20 except NE 1/4 NW 1/4, SW 1/4; Sections 21–22; Section 23 except NE 1/4 NE 1/4; S 1/2 NW 1/4, S 1/2, SE 1/4 NE 1/4 Section 24; Sections 25–36.

T.30N., R.10E. Willamette Meridian: Sections 1–6; N 1/2, NE 1/4 SE 1/4 Section 7; Sections 8–17; E 1/2 Section 18; Sections 19–28; N 1/2, N 1/2 SE 1/4 Section 29; Section 30 except SE 1/4 SE 1/4; Section 31 except N 1/2 NE 1/4; SW 1/4 NW 1/4, NW 1/4 SW 1/4 Section 32; NE 1/4, E 1/2 NW 1/4, N 1/2 SE 1/4, SE 1/4 SE 1/4 Section 33; Sections 34–36.

T.30N., R.11E. Willamette Meridian: SW 1/4 SE 1/4, S 1/2 NW 1/4, SW 1/4 Section 5; Sections 6–8; SW 1/4 NW 1/4, NE 1/4 SW 1/4, SE 1/4 Section 9; Section 10 except N 1/2 NW 1/4, SW 1/4 NW 1/4, NW 1/4 NE 1/4; Section 15 except SE 1/4 SE 1/4; Sections 16–22; NW 1/4 NW 1/4 Section 27; Section 28 except E 1/2 SE 1/4, SE 1/4 NE 1/4; Sections 29–31; Section 32 except SE 1/4; Section 33 except SW 1/4 SW 1/4; Section 34 except NE 1/4, N 1/2 NW 1/4, SE 1/4 NW 1/4, NE 1/4 SE 1/4.

T.31N., R.07E. Willamette Meridian: S 1/2 SW 1/4, SW 1/4 SE 1/4 Section 1; Sections 12–13.

T.31N., R.08E. Willamette Meridian: W 1/2 SW 1/4 Section 3; S 1/2 Section 4; S 1/2 Section 5; SE 1/4 SE 1/4 Section 6; Section 7; Section 8 except S 1/2 SE 1/4; N 1/2, NW 1/4 SW 1/4 Section 9; W 1/2 NW 1/4 Section 10; W 1/2, W 1/2 SE 1/4 Section 17; Sections 18–21; Section 22 except NE 1/4 NE 1/4; S 1/2 NW 1/4, SW 1/4, W 1/2 SE 1/4 Section 23; Section 25 except N 1/2 NE 1/4, SE 1/4 NE 1/4; Sections 26–36.

T.31N., R.09E. Willamette Meridian: Section 1; E 1/2 E 1/2, NW 1/4 NE 1/4 Section 2; E 1/2, E 1/2 SW 1/4 Section 3; E 1/2 NW 1/4, NE 1/4 SW 1/4, W 1/2 NE 1/4 Section 10; NE 1/4 NW 1/4, SE 1/4 SW 1/4, E 1/2 Section 12; Section 13 except W 1/2 NW 1/4; Section 23 except N 1/2 NW 1/4; Sections 24–26; S 1/2 Section 27; N 1/2 SE 1/4, SE 1/4 SE 1/4, S 1/2 NE 1/4 Section 28; W 1/2, SW 1/4 SE 1/4 Section 31; N 1/2 NW 1/4, E 1/2 Section 35; Section 36.

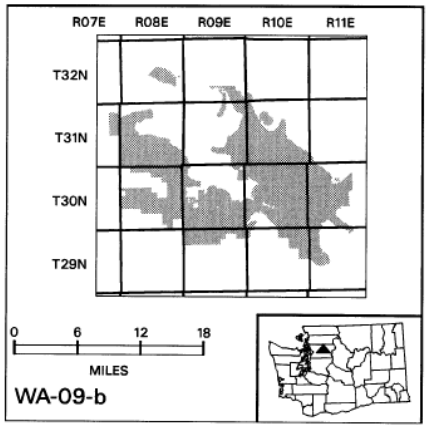
T.31N., R.10E. Willamette Meridian: Section 6 except E 1/2 E 1/2; Sections 7–8; W 1/2 NW 1/4, SW 1/4, W 1/2 SE 1/4 Section 9; SE 1/4 SW 1/4, SW 1/4 SE 1/4 Section 10; Section 15 except E 1/2 E 1/2; NW 1/4, S 1/2 SE 1/4, NE 1/4 SE 1/4 Section 16; Sections 17–21; Section 22 except E 1/2 NE 1/2; SW 1/4 SW 1/4 Section 23; SW 1/4, S 1/2 SE 1/4, SW 1/4 NW 1/4 Section 25; Section 26 except NE 1/4 NE 1/4; Sections 27–36.

T.31N., R.11E. Willamette Meridian: W 1/2 NW 1/4, SW 1/4 Section 31.

T.32N., R.08E. Willamette Meridian: SW 1/4 Section 14; S 1/2 Section 15; E 1/2 NE 1/4 Section 21; N 1/2, N 1/2 SW 1/4, SE 1/4 Section 22; Section 23 except NE 1/4 NE 1/4; W 1/2 SW 1/4, NW 1/4 SE 1/4, SW 1/4 NE 1/4 Section 24; W 1/2 NW 1/4 Section 25; N 1/2 N 1/2 Section 26.

T.32N., R.09E. Willamette Meridian: S 1/2 Section 26; N 1/2 SW 1/4, SE 1/4 SW 1/4, SE 1/4 Section 27; N 1/2 SE 1/4 Section 28; E 1/2 Section 34; E 1/2, N 1/2 NW 1/4, SE 1/4 NW 1/4, NE 1/4 SW 1/4 Section 35; Section 36 except NE 1/4, NE 1/4 SE 1/4.

T.32N., R.10E. Willamette Meridian: Section 31 except E 1/2 E 1/2, NW 1/4 NE 1/4, NE 1/4 NW 1/4.



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Map and description of WA–09–c taken from United States Fish and Wildlife Service 1:100,000 map; Sauk River and Skykomish River, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.27N., R.09E. Willamette Meridian: E 1/2 NW 1/4, NE 1/4 Section 1.

T.27N., R.10E. Willamette Meridian: N 1/2 N 1/2 Section 6.

T.28N., R.09E. Willamette Meridian: S 1/2 S 1/2 Section 23; S 1/2 SW 1/4 Section 24; Section 25; Section 26 except N 1/2, SW 1/4 SW 1/4; SE 1/4 SW 1/4, S 1/2 SE 1/4, NE 1/4 SE 1/4, NE 1/4 NE 1/4 Section 36.

T.28N., R.10E. Willamette Meridian: S 1/2 Section 19; Section 20 except NW 1/4 NW 1/4; SW 1/4 NW 1/4, W 1/2 SW 1/4 Section 21; SE 1/4 SE 1/4 Section 23; S 1/2 SW 1/4 Section 24; NW 1/4, N 1/2 SW 1/4, W 1/2 NE 1/4 Section 25; S 1/2 NW 1/4, SW 1/4, W 1/2 SE 1/4, NE 1/4 SE 1/4, NE 1/4 Section 26; S 1/2 Section 27; NW 1/4, NW 1/4 NE 1/4 Section 29; N 1/2, SW 1/4 Section 30; Section 31 except SW 1/4 NW 1/4; Section 32 except E 1/2 E 1/2.

T.29N., R.08E. Willamette Meridian: SE 1/4 SW 1/4, SW 1/4 SE 1/4 Section 22; NE 1/4 SE 1/4 Section 25; NW 1/4, N 1/2 NE 1/4 Section 27; E 1/2 NE 1/4 Section 28.

T.29N., R.09E. Willamette Meridian: Section 30 except N 1/2 N 1/2.

Critical Habitat includes only State or County lands described within the following areas:

T.27N., R.09E. Willamette Meridian: NW 1/4 NW 1/4, SW 1/4 Section 2; N 1/2, NE 1/4 SW 1/4, SE 1/4 Section 3; NE 1/4 NE 1/4 Section 4; N 1/2 NE 1/4, SE 1/4 NE 1/4 Section 10; NW 1/4, S 1/2 SW 1/4, SE 1/4, S 1/2 NE 1/4 Section 11; Section 12; Section 13 except SE 1/4 SE 1/4; N 1/2 NW 1/4, N 1/2 SE 1/4, NE 1/4 Section 14.

T.27N., R.10E. Willamette Meridian: Section 7; S 1/2 Section 8; Section 9 except N 1/2 NW 1/4; NW 1/4, N 1/2 SW 1/4, SW 1/4 SW 1/4 Section 10; N 1/2 NW 1/4 Section 16; N 1/2, NW 1/4 SW 1/4 Section 17; Section 18 except W 1/2 SW 1/4, SE 1/4 SE 1/4.

T.28N., R.08E. Willamette Meridian: Sections 1–2; Section 3 except N 1/2 NW 1/4; Sections 4–5; W 1/2 SW 1/4, SE 1/4 SW 1/4 Section 6; Section 7; E 1/2 SE 1/4, NE 1/4 Section 8; SE 1/4 SW 1/4, E 1/2 E 1/2, SW 1/4 SE 1/4, NW 1/4 NE 1/4 Section 9; Sections 10–12; N 1/2 N 1/2, NW 1/4 SE 1/4, S 1/2 NE 1/4 Section 13; N 1/2 Section 14; Section 15; S 1/2 S 1/2, E 1/2 NE 1/4, NE 1/4 SE 1/4 Section 16; Section 17 except NW 1/4 SW 1/4, NW 1/4; Section 18 except SW 1/4; W 1/2 Section 20; N 1/2 NW 1/4 Section 21; NE 1/4 NW 1/4, NE 1/4 Section 36.

T.28N., R.09E. Willamette Meridian: Sections 1–4; S 1/2 Section 5; N 1/2, SW 1/4 Section 6; W 1/2, W 1/2 E 1/2 Section 7; NE 1/4 Section 8; Sections 9–11; Section 12 except S 1/2 SE 1/4; S 1/2 S 1/2, NE 1/4 SE 1/4 Section 13; Sections 14–16; N1/2 NW 1/4, SE 1/4 NW 1/4, E 1/2 Section 17; SW 1/4, W 1/2 SE 1/4, SE 1/4 SE 1/4 Section 20; Section 21; Section 27; Section 28 except E 1/2 SW 1/4; Section 29 except NW 1/4; N 1/2 NW 1/4, N 1/2 SE 1/4, NE 1/4 Section 31; N 1/2 N 1/2, S 1/2 NW 1/4 Section 32; N 1/2 NW 1/4, S 1/2 Section 33; Section 34 except NE 1/4 SE 1/4; SW 1/4 Section 35.

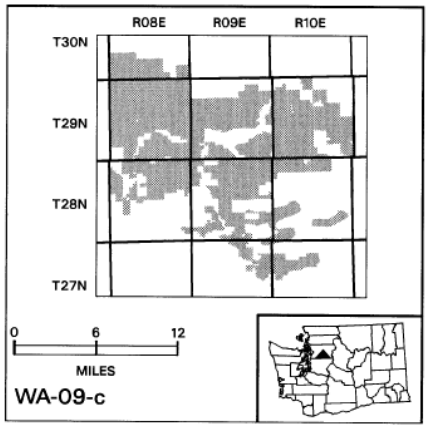
T.28N., R.10E. Willamette Meridian: W 1/2 Section 2; Section 3; Section 4 except N 1/2 NE 1/4, SW 1/4 NE 1/4; Sections 5–6; NW 1/4 Section 7.

T.29N., R.08E. Willamette Meridian: Sections 1–21; Section 22 except SE 1/4 SW 1/4, S 1/2 SE 1/4; Section 23 except SW 1/4 SW 1/4; Section 24; N 1/2 NW 1/4, SE 1/4 NW 1/4, NE 1/4, S 1/2 S 1/2 Section 25; SW 1/4 NW 1/4, SW 1/4, S 1/2 SE 1/4, N 1/2 NE 1/4 Section 26; Section 27 except NW 1/4, N 1/2 NE 1/4; N 1/2 NW 1/4, SE 1/4 Section 28; Sections 29–30; Sections 32–34; Section 35 except S 1/2 SW 1/4; Section 36.

T.29N., R.09E. Willamette Meridian: S 1/2 Section 2; S 1/2 Section 7; S 1/2 Section 8; S 1/2 Section 9; S 1/2, NE 1/4 Section 10; Sections 11–12; W 1/2 NW 1/4, SE 1/4 SW 1/4, SE 1/4, E 1/2 NE 1/4 Section 13; Sections 14–19; Section 20 except S 1/2 SW 1/4; Section 21; Section 22 except S 1/2 S 1/2; Section 23 except S 1/2 S 1/2; NE 1/4 Section 24; Section 25; Section 26 except NW 1/4, N 1/2 NE 1/4; SE 1/4 SW 1/4, S 1/2 SE 1/4 Section 27; S 1/2 SW 1/4, SW 1/4 SE 1/4 Section 29; N 1/2 N 1/2 Section 30; W 1/2, NW 1/4 SE 1/4, W 1/2 NE 1/4, NE 1/4 NE 1/4 Section 31; Section 32 except W 1/2 NW 1/4, NW 1/4 SW 1/4; Section 33 except NE 1/4 NW 1/4, N 1/2 NE 1/4; Section 34 except SW 1/4 NW 1/4, SW 1/4 SE 1/4; Sections 35–36.

T.29N., R.10E. Willamette Meridian: Section 4 except W 1/2 SW 1/4; SE 1/4 SW 1/4, S 1/2 SE 1/4, NE 1/4 SE 1/4 Section 6; Sections 7–8; S 1/2 SW 1/4, SW 1/4 SE 1/4 Section 9; Section 10 except SE 1/4 SW 1/4; Section 14; Section 15 except N 1/2 NW 1/4, NW 1/4 NE 1/4; Sections 16–24; Section 25 except SE 1/4 SE 1/4; Section 26 except NW 1/4 SW 1/4; Sections 28–33; SW 1/4 NW 1/4, W 1/2 SW 1/4, SE 1/4 SW 1/4, S 1/2 SE 1/4 Section 34; Section 36.

T.30N., R.10E. Willamette Meridian: S 1/2 Section 27; S 1/2 Section 28; Sections 29–34; SW 1/4 Section 35; Section 36.



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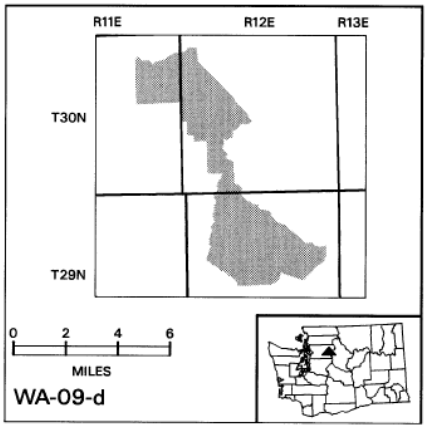
Map and description of WA–09–d taken from United States Fish and Wildlife Service 1:100,000 map; Sauk River, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.29N., R.12E. Willamette Meridian: SW 1/4 Section 3; Section 4 except N 1/2 NE 1/4; Section 5; Sections 8–10; SW 1/4, SW 1/4 SE 1/4 Section 11; Section 13 except E 1/2, SE 1/4 SW 1/4; Sections 14–17; NE 1/4 SE 1/4 Section 18; NE 1/4 Section 20; N 1/2, N 1/2 N 1/2 Section 21; N 1/2, N 1/2 SW 1/4 Section 22; N 1/2 Section 23; NW 1/4 NW 1/4 Section 24.

T.30N., R.11E. Willamette Meridian: S 1/2 SW 1/4, SE 1/4 Section 1; S 1/2 S 1/2 Section 2; Sections 11–12; N 1/2 Section 13; N 1/2 Section 14.

T.30N., R.12E. Willamette Meridian: S 1/2 Section 6; Section 7; SW 1/4 NW 1/4, SW 1/4, SW 1/4 SE 1/4 Section 8; SW 1/4 NW 1/4, SW 1/4 Section 16; Sections 17–18; N 1/2 NW 1/4, E 1/2, SE 1/4 NW 1/4, NE 1/4 SW 1/4 Section 19; Section 20; NW 1/4, NW 1/4 SW 1/4, W 1/2 NE 1/4 Section 21; Section 29 except E 1/2 NE 1/4; N 1/2 NW 1/4, E 1/2 SW 1/4, E 1/2 Section 32; W 1/2 SW 1/4, SE 1/4 SW 1/4 Section 33.



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Map and description of WA–09–e taken from United States Fish and Wildlife Service 1:100,000 map; Sauk River, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.31N., R.11E. Willamette Meridian: N 1/2 Section 1; N 1/2 NW 1/4, SW 1/4 NW 1/4, SW 1/4, N 1/2 NE 1/4 Section 2; Section 3; Section 4 except SE 1/4 SE 1/4; E 1/2 NW 1/4, E 1/2 Section 5; N 1/2 NW 1/4, W 1/2 NE 1/4 Section 9; E 1/2 NW 1/4, E 1/2 Section 10; W 1/2, W 1/2 SE 1/4 Section 11; W 1/2, W 1/2 NE 1/4, SE 1/4 Section 14; E 1/2 SW 1/4, E 1/2 Section 15; E 1/2 NW 1/4, NE 1/4 Section 22; N 1/2 N 1/2 Section 23.

T.31N., R.12E. Willamette Meridian: N 1/2 NE 1/4 Section 4; NW 1/4, W 1/2 NE 1/4 Section 5; N 1/2, N 1/2 SE 1/4 Section 6.

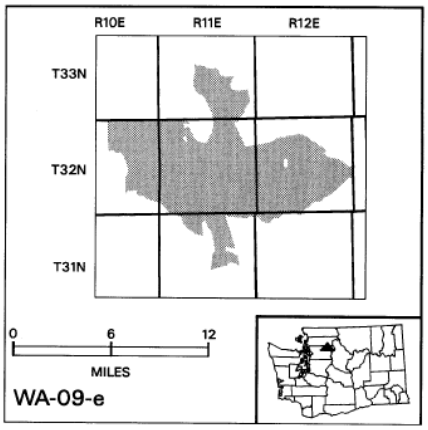
T.32N., R.10E. Willamette Meridian: Sections 1–3; Sections 10–14; N 1/2 N 1/2, SE 1/4 NE 1/4 Section 15; Sections 23–25; N 1/2, SE 1/4 Section 26; N 1/2 NE 1/4 Section 36.

T.32N., R.11E. Willamette Meridian: NW 1/4 NW 1/4 Section 1; Section 2; E 1/2 W 1/2, E 1/2 Section 3; Sections 5–8; W 1/2 NW 1/4, S 1/2 Section 9; Section 10 except NW 1/4 NW 1/4; Section 11; W 1/2 NW 1/4, SE 1/4 SW 1/4, S 1/2 SE 1/4 Section 12; Sections 13–30; N 1/2, NE 1/4 SW 1/4, SE 1/4 Section 31; Section 32–36.

T.32N., R.12E. Willamette Meridian: S 1/2 S 1/2, NE 1/4 SE 1/4 Section 7; S 1/2, S 1/2 NE 1/4 Section 8; Section 9 except N 1/2 N 1/2; SW 1/4, S 1/2 SE 1/4, NW 1/4 SE 1/4 Section 10; S 1/2 SW 1/4 Section 13; W 1/2, S 1/2 SE 1/4 Section 14; Sections 15–16; Section 17 except SE 1/4 SE 1/4; Sections 18–19; Section 20

except NE 1/4 NE 1/4; Sections 21–23; Section 24 except NE 1/4 NE 1/4; NW 1/4, NW 1/4 SW 1/4, NW 1/4 NE 1/4 Section 25; Sections 26–33; N 1/2, W 1/2 SW 1/4, NE 1/4 SW 1/4 Section 34; N 1/2 NW 1/4, SW 1/4 NW 1/4 Section 35.

T.33N., R.11E. Willamette Meridian: S 1/2 SW 1/4, SW 1/4 SE 1/4 Section 15; E 1/2 SW 1/4, SE 1/4 Section 16; Sections 21–22; S 1/2 NW 1/4, SW 1/4, NW 1/4 SE 1/4, SW 1/4 NE 1/4 Section 23; W 1/2, W 1/2 E 1/2 Section 25; Section 26 except NE 1/4 NE 1/4; Section 27; E 1/2 NW 1/4, E 1/2 SE 1/4, NE 1/4 Section 28; Section 34 except W 1/2 SW 1/4; Section 35; NW 1/4, W 1/2 SW 1/4 Section 36.



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Map and description of WA–10-a taken from United States Fish and Wildlife Service 1:100,000 map; Skykomish River, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.26N., R.10E. Willamette Meridian: W 1/2 W 1/2 Section 4; NW 1/4 NW 1/4, E 1/2 NW 1/4, N 1/2 SE 1/4, NE 1/4 Section 5; Section 7 except NE 1/4 NE 1/4; S 1/2 SW 1/4, SE 1/4 Section 8; Section 9 except N 1/2 N 1/2; W 1/2 W 1/2, SE 1/4 SW 1/4, S 1/2 SE 1/4 Section 10; S 1/2 SW 1/4 Section 11; S 1/2 Section 13; Section 14 except N 1/2 NE 1/4; Sections 15–19; N 1/2 NW 1/4, E 1/2 Section 20; Sections 21–23; Section 24 except E 1/2 NW 1/4, NW 1/4 SW 1/4, NW 1/4 NE 1/4; N 1/2 N 1/2 Section 25; N 1/2 N 1/2 Section 26; N 1/2 Section 27; N 1/2 Section 28; N 1/2 NE 1/4 Section 29; W 1/2, W 1/2 NE 1/4, NE 1/4 NE 1/4 Section 30.

T.26N., R.11E. Willamette Meridian: Section 2; Sections 4–7; NW 1/4, W 1/2 SW 1/4, NE 1/4 SW 1/4, NW 1/4 NE 1/4 Section 8; NW 1/4, N 1/2 SW 1/4, SE 1/4 SW 1/4, N 1/2 NE 1/4 Section 18; E 1/2 Section 19; SW 1/4 NW 1/4, W 1/2 SW 1/4 Section 20; NW 1/4 NW 1/4 Section 29; N 1/2 N 1/2 Section 30.

T.27N., R.09E. Willamette Meridian: S 1/2 SE 1/4 Section 19; Section 30 except NW 1/4 NW 1/4; Section 31; W 1/2, NW 1/4 SE 1/4, W 1/2 NE 1/4 Section 32.

T.27N., R.10E. Willamette Meridian: Section 1 except NW 1/4 NW 1/4; E 1/2 SE 1/4, SW 1/4 SE 1/4 Section 2; E 1/2, E 1/2 SW 1/4 Section 11; Sections 12–13; Section 14 except SW 1/4; E 1/2 SE 1/4 Section 15; NE 1/4 NE 1/4 Section 22; N 1/2, N 1/2 SW 1/4, SE 1/4 Section 23; Section 24; N 1/2 N 1/2, SE 1/4 NE 1/4 Section 25; SW 1/4 SW 1/4, E 1/2 SW 1/4, E 1/2 Section 26; E 1/2 NW 1/4, NE 1/4 SW 1/4, E 1/2 Section 31; Section 32; Sections 35–36.

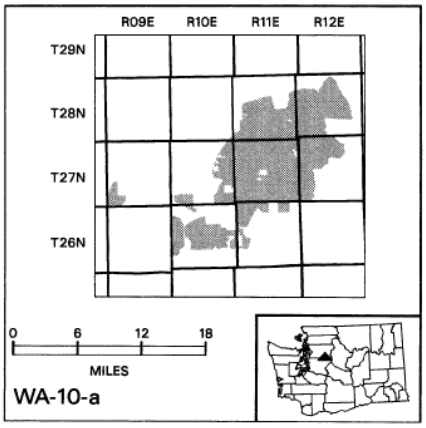
T.27N., R.11E. Willamette Meridian: Sections 1–20; W 1/2 NW 1/4, N 1/2 SW 1/4, SE 1/4 Section 21; Sections 22–36.

T.27N., R.12E. Willamette Meridian: SW 1/4 SW 1/4 Section 2; Section 3 except N 1/2 NE 1/4; Sections 4–10; W 1/2 W 1/2, NW 1/4 SW 1/4 Section 11; N 1/2 N 1/2 Section 15; N 1/2, W 1/2 SW 1/4, NE 1/4 SW 1/4, NW 1/4 SE 1/4 Section 16; Sections 17–19; W 1/2 Section 20; W 1/2 Section 29; Sections 30–31; NW 1/4, N 1/2 SW 1/4, SW 1/4 SW 1/4 Section 32.

T.28N., R.10E. Willamette Meridian: SW 1/4 SE 1/4, E 1/2 SE 1/4 Section 36.

T.28N., R.11E. Willamette Meridian: S 1/2 SW 1/4, SW 1/4 SE 1/4 Section 10; E 1/2 SW 1/4, SE 1/4 Section 12; Section 13 except W 1/2 W 1/2; Section 15 except NE 1/4 NE 1/4; Section 16; S 1/2, SE 1/4 NW 1/4, S 1/2 NE 1/4 Section 17; E 1/2 SE 1/4 Section 18; E 1/2 E 1/2, SW 1/4 SE 1/4 Section 19; Sections 20–29; E 1/2 Section 30; Section 31 except NW 1/4 NW 1/4; Sections 32–36.

T.28N., R.12E. Willamette Meridian: S 1/2 NW 1/4, SW 1/4, SW 1/4 SE 1/4 Section 3; SW 1/4 SE 1/4, E 1/2 SE 1/4 Section 4; Section 7 except N 1/2 N 1/2; SW 1/4, W 1/2 SE 1/4, SE 1/4 SE 1/4 Section 8; Section 9 except NW 1/4 NW 1/4; Section 10; SW 1/4 SW 1/4 Section 11; W 1/2, W 1/2 SE 1/4 Section 14; Sections 15–23; SW 1/4 NW 1/4 Section 25; N 1/2 Section 26; N 1/2 Section 27; W 1/2, NE 1/4, SW 1/4 SE 1/4 Section 28; Sections 29–32; W 1/2, W 1/2 E 1/2 Section 33.



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Map and description of WA–10–b taken from United States Fish and Wildlife Service 1:100,000 map; Skykomish River, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.25N., R.10E. Willamette Meridian: Sections 3–5; S 1/2, SE 1/4 NE 1/4 Section 6; Sections 7–8; W 1/2, W 1/2 SE 1/4 Section 9; NE 1/4 Section 10; W 1/2, S 1/2 SE 1/4 Section 16; Section 17; N 1/2, SE 1/4, NE 1/4 SW 1/4 Section 18; NE 1/4 Section 20; N 1/2, N 1/2 SE 1/4 Section 21; W 1/2 NW 1/4, SE 1/4 NW 1/4, S 1/2 Section 22; SW 1/4 SW 1/4 Section 23; W 1/2 SW 1/4, SE 1/4 SW 1/4 Section 25; NW 1/4, N 1/2 SW 1/4, SE 1/4 SW 1/4, SE 1/4, S 1/2 NE 1/4, NW 1/4 NE 1/4 Section 26; NE 1/4 NW 1/4, N 1/2 SE 1/4, NE 1/4 Section 27.

T.25N., R.11E. Willamette Meridian: Sections 1–4; Sections 9–12; N 1/2, N 1/2 S 1/2 Section 13; N 1/2, N 1/2 S 1/2 Section 14; Section 15; N 1/2, SW 1/4, N 1/2 SE 1/4, SE 1/4 SE 1/4 Section 16; SE 1/4, SE 1/4 SW 1/4 Section 17; SE 1/4, S 1/2 NE 1/4 Section 19; NW 1/4, NW 1/4 SW 1/4, N 1/2 NE 1/4 Section 20; Section 22 except SW 1/4 SW 1/4; W 1/2 W 1/2 Section 23; NE 1/4 SW 1/4, NE 1/4 SE 1/4, N 1/2 NE 1/4, SW 1/4 NE 1/4 Section 27.

T.25N., R.12E. Willamette Meridian: Sections 1–5; W 1/2 Section 6; Section 7; Section 8 except NE 1/4 NW 1/4; Sections 9–13; N 1/2 NW 1/4, N 1/2 SE 1/4, NE 1/4 Section 14; Sections 16–20; NW 1/4, W 1/2 SW 1/4, NE 1/4 SW 1/4, W 1/2 NE 1/4, NE 1/4 NE 1/4 Section 21; W 1/2 NW 1/4, NW 1/4 SW 1/4 Section 28; N 1/2, N 1/2 S 1/2 Section 29; NE 1/4 SE 1/4, NE 1/4 Section 30.

T.25N., R.13E. Willamette Meridian: W 1/2 W 1/2 Section 6; W 1/2 Section 7; W 1/2, W 1/2 SE 1/4, SW 1/4 NE 1/4 Section 18; W 1/2 Section 19.

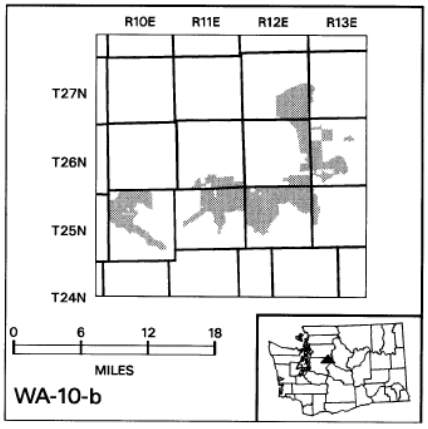
T.26N., R.11E. Willamette Meridian: S 1/2 SW 1/4 Section 27; SE 1/4 SE 1/4 Section 28; S 1/2 SW 1/4, E 1/2 Section 32; N 1/2 SW 1/4, NE 1/4 Section 33; Sections 34–35; S 1/2 Section 36.

T.26N., R.12E. Willamette Meridian: Section 1; NW 1/4, E 1/2 Section 2; N 1/2 NE 1/4 Section 3; E 1/2 E 1/2 Section 11; Sections 12–13; E 1/2 E 1/2, NW 1/4 SE 1/4 Section 24; N 1/2, N 1/2 S 1/2 Section 25; S 1/2 NE 1/4 Section 34; Sections 35–36

T.26N., R.13E. Willamette Meridian: S 1/2 S 1/2, NE 1/4 SE 1/4 Section 6; Section 8; S 1/2 Section 10; Sections 18–19; W 1/2 W 1/2, SE 1/4 SW 1/4, SW 1/4 SE 1/4, E 1/2 SE 1/4 Section 20; S 1/2, SE 1/4 NW 1/4, SW 1/4 NE 1/4 Section 21; W 1/2 SW 1/4 Section 22; W 1/2 Section 27; Section 28 except SW 1/4 SE 1/4; N 1/2, NW 1/4 SW 1/4, S 1/2 S 1/2 Section 29; N 1/2, SW 1/4 Section 30; E 1/2 NE 1/4, NW 1/4 NE 1/4, NE 1/4 SE 1/4 Section 31; N 1/2, N 1/2 SW 1/4 Section 32.

T.27N., R.12E. Willamette Meridian: S 1/2 S 1/2 Section 13; NE 1/4 SW 1/4, S 1/2 SW 1/4, SE 1/4 Section 22; Section 23 except NW 1/4 NW 1/4; Sections 24–27; Section 34 except SW 1/4 SW 1/4; Sections 35–36.

T.27N., R.13E. Willamette Meridian: SW 1/4 SW 1/4 Section 18; W 1/2 Section 19; NW 1/4, W 1/2 SW 1/4 Section 30.



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Map and description of WA–10-c taken from United States Fish and Wildlife Service 1:100,000 map; Cape Flattery, Skykomish River and Snoqualmie Pass, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.20N., R.10E. Willamette Meridian: S 1/2 N 1/2, S 1/2 Section 2.

T.21N., R.10E. Willamette Meridian: NE 1/4 NW 1/4, N 1/2 NE 1/4 Section 36.

T.22N., R.09E. Willamette Meridian: S 1/2 S 1/2 Section 2; N 1/2 NW 1/4, SE 1/4 NW 1/4, NE 1/4 Section 11; W 1/2 NW 1/4, S 1/2, NE 1/4 NW 1/4, SE 1/4 NE 1/4 Section 12.

T.22N., R.10E. Willamette Meridian: S 1/2, NE 1/4, S 1/2 NW 1/4 Section 13; S 1/2, SE 1/4 NE 1/4 Section 14; W 1/2, SE 1/4 Section 18; Section 20; S 1/2 SE 1/4, NE 1/4 SE 1/4, E 1/2 NE 1/4 Section 22; Sections 23–26; SE 1/4 Section 28; NE 1/4 NE 1/4 Section 34; N 1/2 NW 1/4, NW 1/4 NE 1/4 Section 35; N 1/2 N 1/2 Section 36.

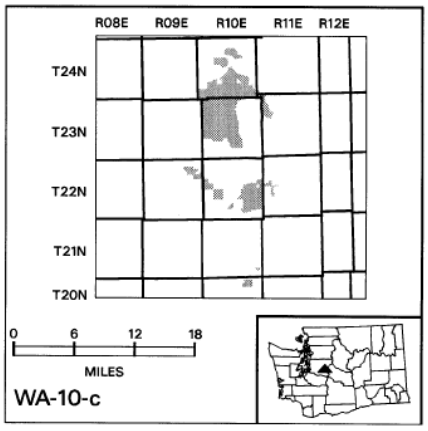
T.22N., R.11E. Willamette Meridian: S 1/2 SW 1/4, SE 1/4 Section 18; W 1/2 W 1/2, NE 1/4 NW 1/4, SE 1/4 SW 1/4 Section 20.

T.23N., R.10E. Willamette Meridian: NW 1/4 NW 1/4 Section 2; W 1/2, N 1/2 NE 1/4, SW 1/4 NE 1/4 Section 3; Sections 4–9; W 1/2, SW 1/4 SE 1/4 Section 10; W 1/2, W 1/2 E 1/2 Section 15; Sections 16–21; Section 22 except NE 1/4 SE 1/4, E 1/2 NE 1/4; Section 27; NW 1/4 NW 1/4, E 1/2 SE 1/4, NE 1/4 Section 28; N 1/2 N 1/2 Section 29.

T.23N., R.11E. Willamette Meridian: Section 6 except E 1/2 NE 1/4, NE 1/4 SE 1/4; Section 7; SW 1/4 Section 8; W 1/2 NW 1/4 Section 17; N 1/2 NE 1/4, SE 1/4 NE 1/4 Section 18.

T.24N., R.10E. Willamette Meridian: S 1/2 SE 1/4, NE 1/4 SE 1/4, E 1/2 NE 1/4 Section 9; N 1/2, N 1/2 SW 1/4, SE 1/4 Section 10; SW 1/4, SW 1/4 NW 1/4, SW 1/4 SE 1/4 Section 11; W 1/2 W 1/2, SE 1/4 SW 1/4, SW 1/4 SE 1/4, NE 1/4 NE 1/4 Section 15; N 1/2, N 1/2 SW 1/4, SE 1/4 Section 16; E 1/2 NE 1/4, NE 1/4 SE 1/4 Section 17; SE 1/4 SW 1/4, SE 1/4 Section 21; Section 22 except NE 1/4 NE 1/4; SW 1/4, SW 1/4 NW 1/4, S 1/2 SE 1/4 Section 23; SW 1/4 SW 1/4 Section 24; Section 25 except E 1/2 SE 1/4, NE 1/4; NE 1/4 NW 1/4, S 1/2, NE 1/4 Section 26; Section 27; Section 28 except NW 1/4; Section 29 except NW 1/4 NW 1/4; Sections 31–36.

T.24N., R.11E. Willamette Meridian: W 1/2 SW 1/4, SE 1/4 SW 1/4, SW 1/4 SE 1/4 Section 31.



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Map and description of WA–11–a taken from United States Fish and Wildlife Service 1:100,000 map; Snoqualmie Pass and Mt Rainier, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.17N., R.10E. Willamette Meridian: Sections 1–3; E 1/2 E 1/2 Section 4.

T.17N., R.11E. Willamette Meridian: W 1/2 SW 1/4, SE 1/4 SW 1/4 Section 6; NE 1/4 NW 1/4 Section 7.

T.18N., R.08E. Willamette Meridian: Sections 1–2; NW 1/4, E 1/2 Section 3; N 1/2 Section 4; N 1/2 NE 1/4, SE 1/4 NE 1/4 Section 10; Section 11 except S 1/2 SW 1/4; Sections 12–13; S 1/2 SW 1/4, NE 1/4 SW 1/4, E 1/2 Section 14; E 1/2 E 1/2 Section 22; Sections 23–25; N 1/2, N 1/2 SE 1/4 Section 26; E 1/2 NE 1/4 Section 27; SE 1/4 SW 1/4, SE 1/4 Section 36.

T.18N., R.09E. Willamette Meridian: Sections 1–30; Section 31 except NW 1/4 NW 1/4; Sections 32–36.

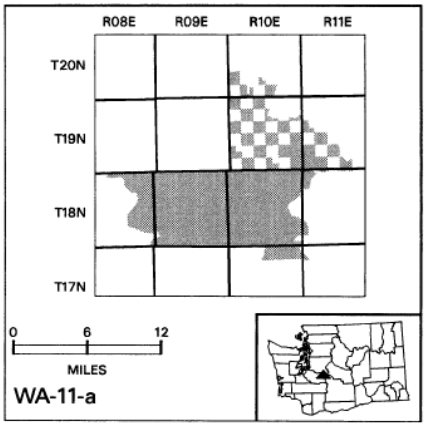
T.18N., R.10E. Willamette Meridian: Sections 1–12; NW 1/4, N 1/2 SW 1/4, SW 1/4 SW 1/4, N 1/2 NE 1/4, SW 1/4 NE 1/4 Section 13; Sections 14–23; SW 1/4 NW 1/4, NW 1/4 SW 1/4, S 1/2 S 1/2 Section 24; Sections 25–35; Section 36 except SE 1/4 NE 1/4.

T.18N., R.11E. Willamette Meridian: NW 1/4 NW 1/4 Section 2; N 1/2 N 1/2 Section 3; N 1/2 NW 1/4 Section 4; N 1/2 NE 1/4, SW 1/4 NW 1/4 Section 5; Section 6; NW 1/4, N 1/2 SW 1/4, W 1/2 NE 1/4 Section 7; W 1/2 Section 30; N 1/2 NW 1/4 Section 31.

T.19N., R.10E. Willamette Meridian: Section 4; Section 6; Section 8; W 1/2, S 1/2 SE 1/4 Section 10; S 1/2 SW 1/4, SE 1/4 Section 12; Section 14; Section 16; Section 18; Section 20; Section 22; Sections 24–26; Section 28; W 1/2, SE 1/4 Section 30; Section 32; W 1/2, SE 1/4 Section 34; Section 36.

T.19N., R.11E. Willamette Meridian: W 1/2, SE 1/4 Section 18; Section 20; Section 28; Sections 30–32, Section 34 except NW 1/4 NE 1/4.

T.20N., R.10E. Willamette Meridian: W 1/2 SE 1/4, SE 1/4 SE 1/4 Section 28; Section 30; Section 32 except NW 1/4 SE 1/4, SW 1/4 NE 1/4, N 1/2 NE 1/4; Section 34 except SE 1/4 SE 1/4.



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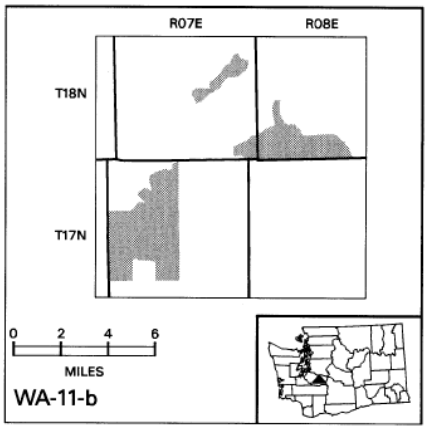
Map and description of WA–11–b taken from United States Fish and Wildlife Service 1:100,000 map; Snoqualmie Pass and Mt Rainier, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.17N, R.07E. Willamette Meridian: S 1/2 N 1/2, S 1/2, NE 1/4 NE/14 Section 4; E 1/2 SE 1/4 Section 5; Section 8 except W 1/2 NW 1/4; Section 9; Sections 16–21; Section 28; N 1/2 N 1/2 Section 29; Section 30.

T.18N, R.07E. Willamette Meridian: SW 1/4, SW 1/4 SE 1/4 Section 12; NW 1/4, W 1/2 NE 1/4 Section 13; SE 1/4 NW 1/4, SW 1/4, N 1/2 SE 1/4, NE 1/4 Section 14; E 1/2 NW 1/4, NE 1/4 SW 1/4, NW 1/4 SE 1/4, NE 1/4 Section 22; NW 1/4 NW 1/4 Section 23; Section 36 except W 1/2 NW 1/4, NE 1/4 NW 1/4.

T.18N, R.08E. Willamette Meridian: SW 1/4 Section 20; S 1/2 SW 1/4, SE 1/4 SW 1/4 Section 28; Section 29 except NE 1/4; S 1/2 SW 1/4, NE 1/4 SW 1/4, SE 1/4 Section 30; Sections 31–34; SW 1/4 NW 1/4, W 1/2 SW 1/4, SE 1/4 SW 1/4 Section 35.



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Map and description of WA–11–c taken from United States Fish and Wildlife Service 1:100,000 map; Tacoma and Centralia, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

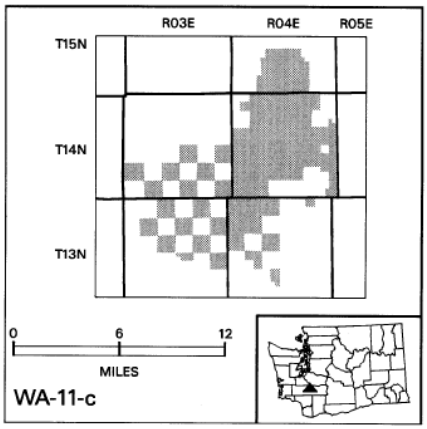
T.13N., R.03E. Willamette Meridian: Section 2; Section 4; Section 8; Section 10; Section 12; Section 14; Section 16; N 1/2 NW 1/4, SE 1/4 NW 1/4, NE 1/4 Section 22; Section 24.

T.13N., R.04E. Willamette Meridian: NE 1/4 Section 2; Sections 4–8; Section 16; Section 18; N 1/2, SE 1/4 Section 20; N 1/2 SE 1/4, SE 1/4 SE 1/4, NE 1/4 Section 28.

T.14N., R.03E. Willamette Meridian: Section 22; Section 24; Section 26; Section 28; Section 30; Section 32; Section 34; Section 36.

T.14N., R.04E. Willamette Meridian: Sections 2–5; SE 1/4 Section 6; Sections 8–10; W 1/2 Section 11; W 1/2 SE 1/4, SE 1/4 SE 1/4 Section 12; Sections 13–23; Section 24 except NW 1/4; Section 25 except SW 1/4; N 1/2 N 1/2 Section 26; Sections 27–32; E 1/2 SW 1/4, E 1/2 Section 36.

T.15N., R.04E. Willamette Meridian: S 1/2 Section 21; S 1/2 Section 22; NW 1/4 NW 1/4, S 1/2 NW 1/4, SW 1/4 Section 26; Sections 27–28; E 1/2 E 1/2 Section 29; E1/2 Section 32; Sections 33–34; W 1/2 Section 35.



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Map and description of WA–11–d taken from United States Fish and Wildlife Service 1:100,000 map; Mt. Rainier, Washington; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.13N., R.07E. Willamette Meridian: Section 10; Section 12; Section 14; Section 22.

T.13N., R.08E. Willamette Meridian: Sections 1–8; Section 9 except SE 1/4 SE 1/4; N 1/2 N 1/2 Section 10; N 1/2 NW 1/4 NE 1/4 SE 1/4, NE 1/4 Section 11; N 1/2, NW 1/4 SW 1/4 Section 12; W 1/2, NW 1/4 SE 1/4 Section 16; Section 17; Section 18 except S 1/2 S 1/2; N 1/2 NW 1/4, SE 1/4 NW 1/4, N 1/2 SE 1/4, NE 1/4 Section 20; NW 1/4, N 1/2 SW 1/4 Section 21.

T.13N., R.09E. Willamette Meridian: NW 1/4 NW 1/4 Section 3; Section 4 except S 1/2 SE 1/4; Sections 5–6; N 1/2, N 1/2 S 1/2 Section 7; N 1/2, N 1/2 SW 1/4 Section 8; N 1/2 NW 1/4 Section 9.

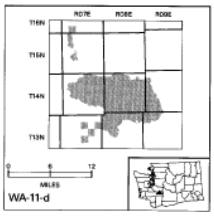
T.14N., R.07E. Willamette Meridian: SW 1/4 NW 1/4, S 1/2 Section 1; Section 2 except N 1/2 NE 1/4; Section 3; S 1/2 SW 1/4, SE 1/4 Section 4; E 1/2 SE 1/4 Section 7; S 1/2, S 1/2 N 1/2 Section 8; Sections 9–17; N 1/2 NE 1/4, SE 1/4 NE 1/4 Section 18; Section 20 except SW 1/4, S 1/2 SE 1/4; N 1/2, N 1/2 SW 1/4, SE 1/4 Section 21; Sections 22–24; Section 25 except SW 1/4 SW 1/4; Section 26 except S 1/2 S 1/2; N 1/2, N 1/2 SE 1/4 Section 27; NE 1/4 NE 1/4 Section 28; NE 1/4 SE 1/4, NE 1/4 NE 1/4 Section 36.

T.14N., R.08E. Willamette Meridian: S 1/2 SE 1/4 Section 2; SW 1/4, W 1/2 SE 1/4 Section 3; Section 4; Section 5 except NW 1/4 NW 1/4; SW 1/4 NW 1/4, S 1/2 Section 6; Sections 7–36.

T.14N., R.09E. Willamette Meridian: Section 7; W 1/2 W 1/2 Section 8; W 1/2, SW 1/4 SE 1/4 Section 17; Sections 18–19; Section 20 except NE 1/4 NE 1/4; W 1/2 SW 1/4 Section 21; W 1/2, W 1/2 SE 1/4 Section 28; Section 29–32; Section 33 except NE 1/4 NE 1/4; SW 1/4 SW 1/4 Section 34.

T.15N., R.07E. Willamette Meridian: W 1/2, W 1/2 SE 1/4 Section 5; E 1/2 E 1/2 Section 6; E 1/2 E 1/2 Section 7; W 1/2, W 1/2 E 1/2 Section 8; SW 1/4 SW 1/4 Section 16; N 1/2 NW 1/4, NW 1/4 NE 1/4, E 1/2 SE 1/4 Section 17; S 1/2 NW 1/4, N 1/2 SW 1/4, SE 1/4 SW 1/4, E 1/2 Section 20; W 1/2 W 1/2, SE 1/4 SW 1/4 Section 21; S 1/2 S 1/2 Section 34.

T.16N., R.07E. Willamette Meridian: Section 32.



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Map and description of OR–01-a taken from United States Fish and Wildlife Service 1:100,000 map; Astoria, Nehalem River, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.05N., R.07W. Willamette Meridian: S 1/2 SE 1/4 Section 3; N 1/2 NE 1/4 Section 10.

Critical Habitat includes only State lands described within the following areas:

T.08N., R.06W. Willamette Meridian: W 1/2 SW 1/4, SW 1/4 NW 1/4 Section 17; Section 18 except NE 1/4 NE 1/4; Section 19; W 1/2 W 1/2 Section 20; W 1/2 Section 28; E 1/2 Section 29; NW 1/4, N 1/2 SW 1/4 Section 30; W 1/2 SW 1/4, SE 1/4 SW 1/4 Section 31; E 1/2 Section 32; W 1/2 Section 33.

T.08N., R.07W. Willamette Meridian: Section 13; E 1/2 Section 14; Section 23 except NW 1/4; Section 24–26; Section 36.

T.07N., R.06W. Willamette Meridian: N 1/2 SW 1/4, SE 1/4 SW 1/4 Section 2; W 1/2 W 1/2, SE 1/4 SW 1/4 Section 3; Section 4; Sections 9–11; Sections 13–14; Section 16; Sections 25–36.

T.07N., R.07W. Willamette Meridian: Sections 30–31; NW 1/4, S 1/2 SW 1/4 Section 32.

T.07N., R.08W. Willamette Meridian: Section 22 except N 1/2 N 1/2; Section 23 except N 1/2 NW 1/4; Section 24 except NE 1/4; Section 25; Section 26 except S 1/2 SW 1/4; N 1/2, N 1/2 SW 1/4, SE 1/4 SW 1/4 Section 27; NE 1/4 Section 28; S 1/2, NE 1/4 NW 1/4 Section 35; Section 36.

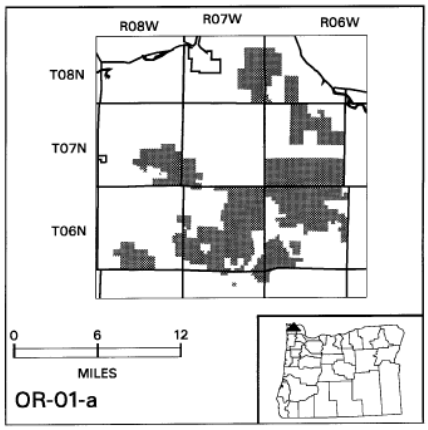
T.06N., R.06W. Willamette Meridian: Section 1 except N 1/2 NE 1/4; Sections 2–6; NE 1/4 NE 1/4 Section 7; Sections 8–10; S 1/2, NW 1/4 NW 1/4, S 1/2 NW 1/4 Section 11; W 1/2 SW 1/4 Section 12; Section 13 except SW 1/4, NE 1/4 NE 1/4; Section 14 except S 1/2 SE 1/4, NW 1/4 SE 1/4; Section 15; Section 16 except SW 1/4 SE 1/4, SE 1/4 SW 1/4; Section 17 except N 1/2 NW 1/4; SE 1/4 NE 1/4 Section 18; S 1/2 SE 1/4, NE 1/4 SE 1/4, S 1/2 SW 1/4 Section 19; E 1/2 NE 1/4 Section 21; N 1/2 N 1/2 Section 22; N 1/2 NW 1/4 Section 23; NE 1/4 NW 1/4, E 1/2 Section 24; W 1/2 Section 28; SW 1/4, W 1/2 NW 1/4, E 1/2 NE 1/4, SW 1/4 SE 1/4 Section 29; Sections 30–32; S 1/2 NW 1/4, W 1/2 SW 1/4, SW 1/4 NE 1/4 Section 33.

T.06N., R.07W. Willamette Meridian: Sections 1–3; N 1/2 NE 1/4, NE 1/4 NW 1/4 Section 4; NW 1/4 NW 1/4 Section 5; N 1/2 NE 1/4 Section 6; E 1/2 SE 1/4 Section 9; Sections 10–15; NE 1/4 NE 1/4, S 1/2 SW 1/4 Section 16; S 1/2 S 1/2 Section 17; W 1/2 Section 18; S 1/2, W 1/2 NW 1/4 Section 19; Sections 20–23; W 1/2 SW 1/4 Section 24; W 1/2 NW 1/4, NW 1/4 SW 1/4, SE 1/4 SE 1/4 Section 25; Sections 26–28; S 1/2, W 1/2 NW 1/4 Section 29; Section 30; NE 1/4, N 1/2 NW 1/4 Section 31; E 1/2 SE 1/4, N 1/2 Section 32; Section 33; NE 1/4, S 1/2 SW 1/4, SE 1/4 SE 1/4 Section 34; N 1/2 NE 1/4, SW 1/4 NE 1/4, E 1/2 SW 1/4, SW 1/4 SW 1/4 Section 35; E 1/2, SW 1/4 SW 1/4, E 1/2 SW 1/4 Section 36.

T.06N., R.08W. Willamette Meridian: NE 1/4 Section 13; SE 1/4, E 1/2 SW 1/4, S 1/2 NE1/4 Section 24; E 1/2 Section 25; SW 1/4 Section 27; Section 28 except NE 1/4; Section 29 except NW 1/4; E 1/2 Section 32; Sections 33–34.

T.05N., R.06W. Willamette Meridian: N 1/2 NW 1/4, SW 1/4 NW 1/4, NW 1/4 SW 1/4, NE 1/4 SW 1/4 Section 6.

T.05N., R.07W. Willamette Meridian: E 1/2 NW 1/4, NW 1/4 NW 1/4, NE 1/4, N 1/2 SE 1/4 Section 1; N 1/2 NW 1/4 Section 3; NE 1/4 NE 1/4 Section 4.



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Map and description of OR–01–b taken from United States Fish and Wildlife Service 1:100,000 map; Nehalem River, Oregon; 1995.

Critical Habitat includes only State lands described within the following areas:

T.03N., R.08W. Willamette Meridian: Sections 6–7; Sections 16–17; Section 18 south of Foss River; Sections 19–21; Sections 27–28.

T.03N., R.09W. Willamette Meridian: Section 1 except W 1/2 NW 1/4; SE 1/4 SW 1/4, SE 1/4 Section 2; NW 1/4, W 1/2 SW 1/4 Section 3; E 1/2, S 1/2 SW 1/4, NE 1/4 NW 1/4 Section 4; Section 5 except W 1/2 NW 1/4; Section 8 except SW 1/4 NW 1/4, NW 1/4 SW 1/4; Sections 9–16; Section 21 except W 1/2 NW 1/4, SE 1/4 NW 1/4; Section 23 lying N of Foss River; E 1/2, NW 1/4 Section 24 lying N of Foss River; Section 28.

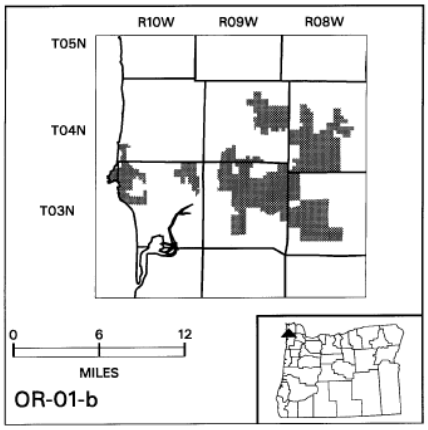
T.03N., R.10W. Willamette Meridian: W1/2 Section 1; Section 2 except NW 1/4; SW 1/4, S 1/2 SE 1/4 Section 5; Section 6 except NW 1/4 NW 1/4, NE 1/4 NE 1/4; Section 7; N 1/2 NE 1/4, SE 1/4 NE 1/4, NW 1/4 NW 1/4 Section 8; W 1/2 NE 1/4 Section 11; Section 12 except E 1/2 E 1/2, W 1/2 SW 1/4; NW 1/4 NE 1/4 Section 13; S 1/2, E 1/2 NE 1/4 Section 17; Section 18 except N 1/2 NE 1/4, SE 1/4 NE 1/4.

T.03N., R.11W. Willamette Meridian: S1/2 Section 1; Section 12.

T.04N., R. 08W. Willamette Meridian: SW 1/4, S 1/2 NW 1/4, NW 1/4 SE 1/4, S 1/2 SE 1/4 Section 8; SE 1/4 Section 10; S 1/2 S 1/2, W 1/2 NW 1/4, SE 1/4 NW 1/4 Section 14; Section 15 except NW 1/4; Section 17 except NW 1/4 SW 1/4; Sections 19–20; Section 21 except N 1/2 NW 1/4; Section 22 except S 1/2 NE 1/4, NW 1/4 NE 1/4; E 1/2 NW 1/4, NW 1/4 NW 1/4, W 1/2 NE 1/4 Section 23; Section 27–29; SE 1/4, N 1/2 NE 1/4, SE 1/4 NE 1/4, NE 1/4 NW 1/4, E 1/2 SW 1/4, SW 1/4 SW 1/4 Section 31; Sections 32–34.

T.04N., R.09W. Willamette Meridian Section 10 except NW1/4; SW 1/4 Section 11; Sections 13–14; NE 1/4, S 1/2 SE 1/4, NE 1/4 SE 1/4 Section 15; NE 1/4, NW 1/4 SE 1/4 Section 22; Section 23 except S 1/2 SE 1/4, NW 1/4 SE 1/4; N 1/2, NW 1/4 SW 1/4, NW 1/4 SE 1/4 Section 24; SW 1/4 SW 1/4 Section 28; Section 32 except W 1/2 W 1/2, NE 1/4 NW 1/4; W 1/2 W 1/2, S 1/2 SE 1/4, SE 1/4 SW 1/4 Section 33; Section 34 except N 1/2, NE 1/4 SW 1/4; SW 1/4 SW 1/4 Section 35.

T.04N., R.10W. Willamette Meridian: S 1/2 SW 1/4, SW 1/4 SE 1/4, SE 1/4 SE 1/4 Section 30; E 1/2 W 1/2, NW 1/4 NW 1/4, W 1/2 SW 1/4 Section 31.



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Map and description of OR–01–c taken from United States Fish and Wildlife Service 1:100,000 map; Nehalem River and Yamhill River, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.01N., R.09W. Willamette Meridian: W 1/2 SW 1/4, SE 1/4 SW 1/4, SW 1/4 NW 1/4 Section 25; SE 1/4, SE 1/4 SW 1/4, SE 1/4 NE 1/4 Section 26; E 1/2 SE 1/4, SE 1/4 NE 1/4 Section 34; Section 35 except SW 1/4.

T.01S., R.08W. Willamette Meridian: Section 7 except E 1/2 NE 1/4, SE 1/4; S 1/2 Section 17; S 1/2, SE 1/4 NE 1/4 Section 18; N 1/2 N 1/2, SW 1/4 NE 1/4, SE 1/4 NW 1/4, SE 1/4 SE 1/4 Section 19; N 1/2 N 1/2, NE 1/4 SW 1/4, SW 1/4 SW 1/4 Section 20; Section 21 except N 1/2 NE 1/4, S 1/2 SW 1/4; W 1/2 Section 22; S 1/2 SW 1/4, SE 1/4 NW 1/4, NE 1/4 SW 1/4, SW 1/4 NE 1/4, W 1/2 SE 1/4 Section 27; S 1/2 NW 1/4, S 1/2 SE 1/4, N 1/2 SW 1/4, SE 1/4 SW 1/4 Section 28; S 1/2 NE 1/4, N 1/2 SE 1/4, S 1/2 SW 1/4, NE 1/4 SW 1/4 Section 29; NE 1/4, N 1/2 NW 1/4, SW 1/4 NW 1/4, SE 1/4 SE 1/4 Section 30; N 1/2 NE 1/4 Section 31.

T.01S., R.09W. Willamette Meridian: Section 1 except E 1/2 E 1/2; E 1/2 E 1/2, NW 1/4 NE 1/4 Section 2; N 1/2 SW 1/4 Section 3; Section 4 except SE 1/4 SE 1/4; NE 1/4, N 1/2 SE 1/4, E 1/2 NW 1/4 Section 5; S 1/2 NE 1/4, NW 1/4 NE 1/4, N 1/2 NW 1/4, SE 1/4 NW 1/4, E 1/2 SW 1/4, E 1/2 SE 1/4 Section 9; S 1/2, S 1/2 NW 1/4, SW 1/4 NE 1/4 Section 10; Section 11 except N 1/2 NE 1/4; NW 1/4, W 1/2 SW 1/4, E 1/2 NE 1/4, Section 12; E 1/2 NW 1/4, SW 1/4 NE 1/4 Section 13; W 1/2 NE 1/4, NW 1/4, NE 1/4 SW 1/4, SW 1/4 SW 1/4 Section 14; N 1/2 NW 1/4, NE 1/4 NE 1/4 Section 15.

T.01S., R.11W. Willamette Meridian: SE 1/4 SE 1/4 Section 13.

Critical Habitat includes only State lands described within the following areas:

T.02N., R.09W. Willamette Meridian: Section 3; E 1/2, NW 1/4 Section 7; S 1/2 Section 16; Section 18 except SW 1/4 NW 1/4, N 1/2 NW 1/4; Sections 19–22; Sections 29–32.

T.02N., R.10W. Willamette Meridian: E 1/2 E 1/2, NW 1/4 SE 1/4 Section 24; S 1/2 SE 1/4 Section 25; Section 36 except NW 1/4 NW 1/4, NW 1/4 SW 1/4.

T.01N., R.09W. Willamette Meridian: Section 9; Section 16 except SW 1/4; SW 1/4, E 1/2 SE 1/4 Section 19; Section 20 except NE 1/4 NE 1/4; S 1/2 SW 1/4, NW 1/4 SW 1/4 Section 21; Section 26 except SE 1/4, SE 1/4 SW 1/4, SE 1/4 NE 1/4; Section 27; W 1/2 Section 28; Section 29 except NW 1/4; Section 30; NE 1/4, N 1/2 NW 1/4, NE 1/4 SE 1/4 Section 31; N 1/2, S 1/2 SE 1/4, NE 1/4 SE 1/4 Section 32; S 1/2 SW 1/4, SE 1/4, N 1/2 NW 1/4, SW 1/4 NW 1/4, NW 1/4 SW 1/4 Section 33; Section 34 except E 1/2 SE 1/4, SE 1/4 NE 1/4, S 1/2 SW 1/4, NW 1/4 SW 1/4, SW 1/4 NW 1/4; NW 1/4 NW 1/4 Section 35; Section 36.

T.01N., R.10W. Willamette Meridian: N 1/2 NE 1/4 Section 1; SW 1/4 SW 1/4 Section 2; SE 1/4 SE 1/4 Section 3; E 1/2 NE 1/4, NE 1/4 SE 1/4 Section 10; W 1/2, SE 1/4 SE 1/4 Section 11; Section 13 except N 1/2 NE 1/4; S 1/2 SE 1/4 Section 14; SE 1/4, SE 1/4 NW 1/4, NE 1/4 SW 1/4 Section 22; Section 23 except W 1/2 NW 1/4; Sections 24–26; E 1/2, NW 1/4, E 1/2 SW 1/4 Section 27; N 1/2 NE 1/4 Section 34; NE 1/4, N 1/2 SE 1/4 Section 35; NE 1/4 Section 36.

T.01S., R.08W. Willamette Meridian: N 1/2 Section 6; SE 1/4 Section 7; SW 1/4 Section 16; N 1/2 S 1/2, SE 1/4 NW 1/4 Section 17; NW 1/4 NW 1/4, SE 1/4 NW 1/4, SW 1/4 NE 1/4, NW 1/4 SE 1/4 Section 18; Section 19 except SW 1/4, SW 1/4 NW 1/4, SE 1/4 NE 1/4, N 1/2 SE 1/4, SW 1/4 SE 1/4; Section 20 except S 1/2 S 1/2, N 1/2 N 1/2, NE 1/4 SW 1/4; S 1/2 SW 1/4, Section 21; N 1/2 N 1/2, SW 1/4 NE 1/4 Section 28.

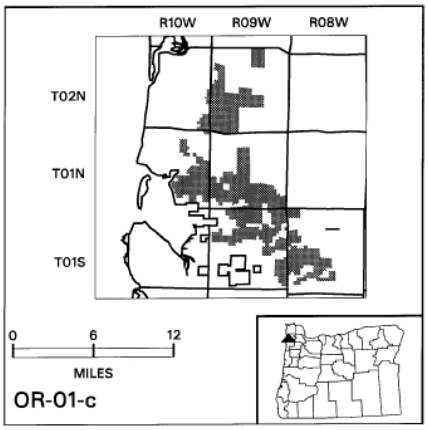
T.01S., R.09W. Willamette Meridian: E 1/2 E 1/2 Section 1; Section 3 except N 1/2 SW 1/4; SE 1/4 SE 1/4 Section 4; S 1/2 SE 1/4, NE 1/4 SE 1/4, SE 1/4 SW 1/4 Section 7; E 1/2 SE 1/4 Section 8; W 1/2 SW 1/4, W 1/2 SE 1/4 Section 9; Section 13 except N 1/2 NW 1/4, SE 1/4 NW 1/4, SW 1/4 NE 1/4; S 1/2 SE 1/4, SE 1/4 SW 1/4 Section 14; N 1/2 NE 1/4, NW 1/4 Section 16; N 1/2, N 1/2 SE 1/4 Section 17; NE 1/4, E 1/2 NW 1/4 Section 18; NW 1/4, W 1/2 NE 1/4 Section 23; S 1/2 SW 1/4, NE 1/4 SE 1/4, S 1/2 SE 1/4 Section 24; Section 25; NE 1/4, E 1/2 NW 1/4, N 1/2 SE 1/4 Section 36.

Critical Habitat includes only State owned and State managed lands described within the following areas:

NE 1/4, N 1/2 SE 1/4, NW 1/4 SE 1/4, E 1/2 NW 1/4 Section 13.

Critical Habitat includes only County lands described within the following areas:

T.01N., R.09W. Willamette Meridian: SW 1/4 Section 16; N 1/2, SE 1/4, NE 1/4 SW 1/4 Section 21; E 1/2 Section 28; NE 1/4 Section 33.



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Map and description of OR–01–d taken from United States Fish and Wildlife Service 1:100,000 map; Nehalem River, Oregon; 1995.

Critical Habitat includes only State lands described within the following areas:

T.04N., R.06W. Willamette Meridian: W 1/2 NW 1/4, NE 1/4 NW 1/4, NW 1/4 NE 1/4 Section 4; Section 5 except SW 1/4; Section 30 except NE 1/4; N 1/2 NW 1/4, SW 1/4 NW 1/4, NW 1/4 NE 1/4 Section 31.

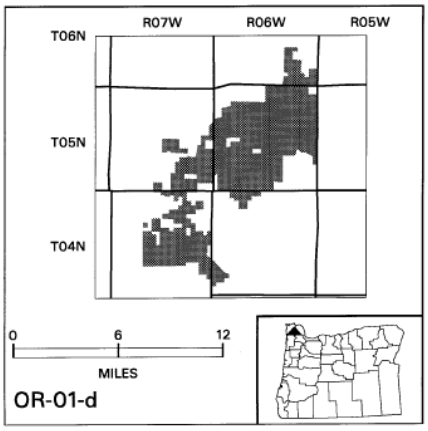
T.04N., R.07W. Willamette Meridian: SW 1/4, S 1/2 NW 1/4 Section 1; Section 2 except NE 1/4, SW 1/4 NW 1/4; N 1/2 N 1/2, SE 1/4 NE 1/4, S 1/2 NE 1/4 Section 3; SE 1/4, S 1/2 NE 1/4, NW 1/4 SW 1/4 Section 9; N 1/2 N 1/2, S 1/2 SW 1/4, SE 1/4 NE 1/4, SE 1/4 SE 1/4 Section 10; Section 11 except N 1/2 NE 1/4, SE 1/4 NE 1/4, SW 1/4 SE 1/4, NW 1/4 SW 1/4; Section 13 except NW 1/4 NE 1/4, SE 1/4 SE 1/4; Section 14 except NW 1/4 NE 1/4; Section 15; Section 16 except E 1/2 NE 1/4, NE 1/4 SE 1/4; Sections 21–22; Section 23 except S 1/2 SE 1/4; Section 24 except E 1/2 NE 1/4, SW 1/4 SW 1/4; NE 1/4, E 1/2 NW 1/4, E 1/2 SE 1/4 Section 25.

T.05N., R.06W. Willamette Meridian: Section 1 except NE 1/4; Sections 2–3; SE 1/4, S 1/2 SW 1/4, S 1/2 NE 1/4 Section 7; Sections 8–18; Section 19 except E 1/2 NE 1/4; Section 20 except N 1/2 NW 1/4; Sections 21–22; Section 23 except SE 1/4 SE 1/4; Section 24; E 1/2 NE 1/4, NW 1/4 NE 1/4 Section 25; Sections 27–30; Section 31 except W 1/2 W 1/2; Sections 32–33; Section 34 except SE 1/4.

T.05N., R.07W. Willamette Meridian: E 1/2 E 1/2, SW 1/4 SE 1/4, SE 1/4 SW 1/4 Section 13; Section 22 except S 1/2 S 1/2; N 1/2 SW 1/4 Section 23; Section 24 except NE 1/4, NW 1/4 NW 1/4; Sections 25–26; E 1/2 SE 1/4, SE 1/4 NE 1/4 Section 27; SE 1/4 Section 33; E 1/2 Section 34; Section 35 except N 1/2 NE 1/4, NE 1/4 NW 1/4; N 1/2 Section 36.

T.05N., R.08W. Willamette Meridian: S 1/2 NW 1/4 Section 25; SE 1/4 NE 1/4 Section 26.

T.06N., R.06W. Willamette Meridian: S 1/2 SW 1/4, SW 1/4 SE 1/4 Section 23; Section 26 except NE 1/4; Section 35 except SW 1/4 NE 1/4; Section 36 except N 1/2 NW 1/4, SE 1/4 NW 1/4.



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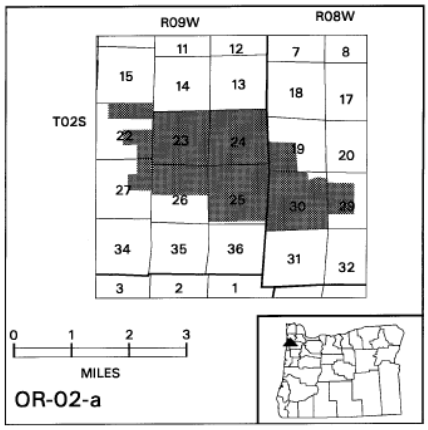
Map and description of OR–02–a taken from United States Fish and Wildlife Service 1:100,000 map; Yamhill River, Oregon; 1995.

Critical Habitat includes only State lands described within the following areas:

T.02S., R.09W. Willamette Meridian: Section 22 except SW 1/4, S 1/2 NW 1/4, S 1/2 NE 1/4, SW 1/4 SE 1/4; Sections 23–25; N 1/2 Section 26; E 1/2 NE 1/4, SW 1/4 NE 1/4 Section 27.

T.02S., R.08W. Willamette Meridian: SW 1/4 Section 19; N 1/2 SW 1/4, NW 1/4 Section 29; Section 30.



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Map and description of OR–02–b taken from United States Fish and Wildlife Service 1:100,000 map; Yamhill River, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.03S., R.09W. Willamette Meridian: SW 1/4, W 1/2 SE 1/4, SW 1/4 NW 1/4 Section 3; S 1/2, SW 1/4 NW 1/4, SE 1/4 NE 1/4, W 1/2 NE 1/4; Section 4; E 1/2 SE 1/4 Section 8; Section 9; Section 10 except N 1/2 SE 1/4; NW 1/4 Section 15; N 1/2 Section 16; S 1/2 NW 1/4, N 1/2 SW 1/4 Section 19; S 1/2 SW 1/4 Section 32.

T.03S., R.10W. Willamette Meridian: SE 1/4, E 1/2 SW 1/4, S 1/2 NE 1/4 Section 22; Section 23 except N 1/2 NW 1/4; S 1/2, E 1/2 NE 1/4, SW 1/4 NW 1/4 Section 24; W 1/2 NW 1/4 Section 25; Section 26; Section 27 except SW 1/4 NE 1/4; E 1/2, E 1/2 W 1/2 Section 28; Section 32 except N 1/2 N 1/2, W 1/2 SW 1/4; Section 33; N 1/2 NE 1/4, W 1/2 SW 1/4, NW 1/4 Section 34; Section 35 except S 1/2 S 1/2, NW 1/4 SW 1/4.

T.04S., R.09W. Willamette Meridian: S 1/2 SW 1/4, SW 1/4 SE 1/4 Section 4; W 1/2, W 1/2 E 1/2, SE 1/4 SE 1/4 Section 5; Section 6 except W 1/2 W 1/2; Section 7 except W 1/2 NW 1/4; Sections 8–9; SW 1/4, SW 1/4 SE 1/4, S 1/2 NW 1/4 Section 10; NW 1/4, W 1/2 NE 1/4 Section 15; N 1/2, SE 1/4 Section 16; N 1/2 Section 17; N 1/2 Section 18.

T.04S., R.10W. Willamette Meridian: SW 1/4, S 1/2 NW 1/4, NW 1/4 NW 1/4, W 1/2 E 1/2 Section 3; E 1/2, N 1/2 NW 1/4, SE 1/4 NW 1/4, SE 1/4 Section 4; N 1/2, SW 1/4, W 1/2 SE 1/4 Section 5; E 1/2 SW 1/4, E 1/2 Section 6; N 1/2 NE 1/4, NE 1/4 NW 1/4 Section 7; NE 1/4 Section 9.

T.05S., R.09W. Willamette Meridian: SW 1/4 Section 5; SE 1/4, SW 1/4 NE 1/4, E 1/2 SW 1/4 Section 6; Section 7; W 1/2, S 1/2 SE 1/4, NW 1/4 SE 1/4 Section 8; NW 1/4, SE 1/4 SW 1/4, W 1/2 NE 1/4, N 1/2 SW 1/4 Section 17; Section 18; N 1/2 Section 19; NW 1/4 NW 1/4 Section 20.

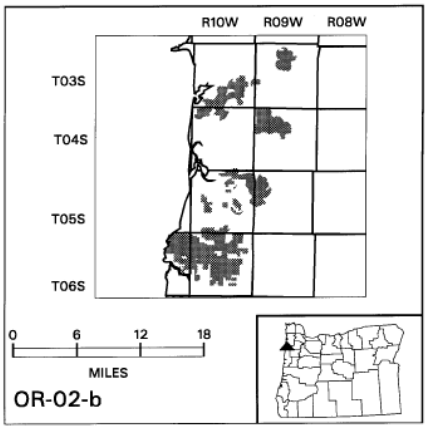
T.05S., R.10W. Willamette Meridian: Section 1; Section 2 except S 1/2 S 1/2, NE 1/4 NE 1/4; NE 1/4, E 1/2 NW 1/4, SE 1/4 SW 1/4, SW 1/4 NW 1/4, SW 1/4 SE 1/4, NE 1/4 SW 1/4 Section 3; S 1/2 NE 1/4 Section 4; N 1/2 NE 1/4, E 1/2 NW 1/4, NW 1/4 NW 1/4, SW 1/4 SE 1/4, SE 1/4 SW 1/4 Section 10; NW 1/4 NW 1/4, SE 1/4 NW 1/4, NW 1/4 SW 1/4 Section 11; E 1/2, E 1/2 NW 1/4, SW 1/4 NW 1/4, NE 1/4 SW 1/4 Section 12; NE 1/4 NW 1/4, E 1/2 Section 13; SW 1/4 Section 14; SW 1/4, SW 1/4 NW 1/4 Section 17; Section 20 except W 1/2 W 1/2, SE 1/4 NE 1/4; NW 1/4, E 1/2 SE 1/4 Section 22; SE 1/4 NW 1/4, NW 1/4 SE 1/4, SW 1/4 NE 1/4, SW 1/4 SW 1/4, SE 1/4 SE 1/4, NW 1/4 SE 1/4, N 1/2 N 1/2 Section 23; NW 1/4 NE 1/4, E 1/2 NW 1/4 Section 24; N 1/2 N 1/2 Section 26; S 1/2 Section 32; S 1/2 S 1/2, NE 1/4 SE 1/4, NW 1/4 SW 1/4, SW 1/4 NW 1/4, SE 1/4 NE 1/4 Section 33; W 1/2 SE 1/4 Section 34.

T.06S., R.10W. Willamette Meridian: Section 2; W 1/2 W 1/2, SE 1/4 SE 1/4, NE 1/4 SW 1/4 Section 3; Section 4; N 1/2 S 1/2, N 1/2 Section 5; W 1/2 W 1/2, E 1/2 SW 1/4, E 1/2 SE 1/4 Section 6; Section 7; Section 8 except N 1/2 NE 1/4; Section 9 except NW 1/4 NW 1/4, SE 1/4 SW 1/4, S 1/2 SE 1/4; Section 10; Section 11 except NE 1/4, SE 1/4 SE 1/4; SW 1/4 Section 12; S 1/2, NW 1/4 NE 1/4 Section 14; W 1/2, SE 1/4 Section 15; Section 16 except N 1/2 NE 1/4; Section 17–18; NW 1/4, W 1/2 SW 1/4, W 1/2 E 1/2 Section 19; W 1/2 NE 1/4, E 1/2 NW 1/4 Section 20; Sections 21–22; W 1/2, W 1/2 E 1/2 Section 23; S 1/2 NW 1/4, S 1/2 SW 1/4 Section 26; W 1/2 W 1/2, NE 1/4, NE 1/4 NW 1/4, SE 1/4 SE 1/4 Section 27; Section 28 except SW 1/4 NW 1/4; NE 1/4, NW 1/4 SE 1/4 Section 30.

T.06S., R.11W. Willamette Meridian: Section 1–2; Section 11; Section 12; Section 13 except SE 1/4 NW 1/4, SW 1/4 NE 1/4; NE 1/4, N 1/2 SE 1/4 Section 14; Section 24 except SE 1/4 SE 1/4, N 1/2 NW 1/4.

Critical Habitat includes only State lands described within the following areas:

T.05S., R.10W. Willamette Meridian: S 1/2 NE 1/4, E 1/2 SE 1/4 Section 10; E 1/2 SE 1/4, SE 1/4 NE 1/4 Section 11.



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Map and description of OR–02–c taken from United States Fish and Wildlife Service 1:100,000 map; Yamhill River and Corvallis, Oregon; 1995.

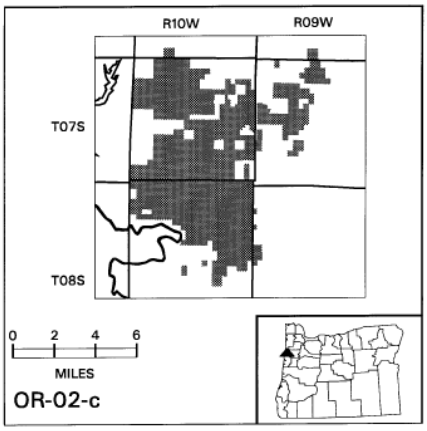
Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.06S., R.10W. Willamette Meridian: SE 1/4 Section 32.

T.07S., R.09W. Willamette Meridian: SW 1/4, W 1/2 NW 1/4, SE 1/4 NW 1/4, SW 1/4 SE 1/4 Section 3; SE 1/4, E 1/2 NE 1/4, SW 1/4 NE 1/4, NE 1/4 SW 1/4 Section 4; W 1/2 NW 1/4 Section 5; Section 8 except S 1/2 SW 1/4 SW 1/4 SE 1/4; Section 9 except N 1/2 NE 1/4, SE 1/4 NE 1/4, NE 1/4 NW 1/4, SW 1/4 SE 1/4, SE 1/4 SW 1/4; Section 16 except E 1/2 E 1/2, NE 1/4 NW 1/4; S 1/2, E 1/2 NE 1/4 Section 17; Section 18 except NE 1/4 NE 1/4; SW 1/4, S 1/2 NW 1/4 Section 19; NE 1/4, NW 1/4 SE 1/4 Section 20; W 1/2 NW 1/4, NE 1/4 NW 1/4, S 1/2 SW 1/4 Section 21; N 1/2 NW 1/4, SW 1/4 NW 1/4 Section 28; SE 1/4 NE 1/4 Section 29; N 1/2 NW 1/4 Section 30.

T.07S., R.10W. Willamette Meridian: SW 1/4, NW 1/4 SE 1/4 Section 3; Section 4 except E 1/2 NE 1/4; Section 5; Sections 7–9; Section 10 except E 1/2 NW 1/4, NE 1/4; N 1/2 S 1/2, E 1/2 NE 1/4, SW 1/4 SE 1/4, SE 1/4 NE 1/4 Section 11; Section 12 except S 1/2 NW 1/4, N 1/2 SW 1/4, E 1/2 NE 1/4; Section 13; Section 14 except N 1/2 NW 1/4, SW 1/4 NW 1/4, W 1/2 SW 1/4, NE 1/4 NE 1/4; Section 15 except S 1/2 S 1/2; Section 16 except SE 1/4 SE 1/4; Section 17; N 1/2 Section 18; S 1/2 S 1/2 Section 20; NE 1/4, SW 1/4 Section 21; Sections 22–23; Section 24 except NW 1/4 SE 1/4, SW 1/4 NE 1/4, NE 1/4 SW 1/4; Section 25 except NW 1/4; Section 26 except NW 1/4; Sections 27–29; Section 31 except N 1/2 NW 1/4, NW 1/4 NE 1/4; Sections 32–35.

T.08S., R.10W. Willamette Meridian: Sections 1–5; Section 6 except NW 1/4 SW 1/4, SW 1/4 NW 1/4; Section 7 except NW 1/4 SW 1/4, S 1/2 SW 1/4, S 1/2 SE 1/4 S 1/2 NE 1/4; Section 8 except S 1/2 S 1/2; Sections 9–14; Section 15 except SE 1/4 SE 1/4; E 1/2 E 1/2, NW 1/4 NE 1/4, SW 1/4 SE 1/4 Section 16; SW 1/4 SE 1/4 Section 22; Sections 23 except SW 1/4 NW 1/4, NW 1/4 SW 1/4; Section 24 except SE 1/4 SE 1/4; NE 1/4 NW 1/4, NW 1/4 NE 1/4 Section 25; Section 26 except SE 1/4, E 1/2 NE 1/4; W 1/2 NE 1/4 Section 28.



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Map and description of OR–02–d taken from United States Fish and Wildlife Service 1:100,000 map; Corvallis, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.07S., R.06W. Willamette Meridian: SW 1/4 Section 4; Section 5 except N 1/2 NE 1/4, NW 1/4 NW 1/4; Section 6 except NE 1/4, N 1/2 NW 1/4, NW 1/4 SE 1/4; Section 7; S 1/2 S 1/2, NE 1/4 SW 1/4, N 1/2 SE 1/4, SE 1/4 NE 1/4 Section 9; Section 17 except NW 1/4, W 1/2 NE 1/4, NW 1/4 SW 1/4.

T.07S., R.07W. Willamette Meridian: Section 1 except N 1/2 NE 1/4; Sections 2–3; Section 4 except N 1/2 NW 1/4, NW 1/4 NE 1/4; Section 5; Section 7; N 1/2 Section 8; Section 9; Section 11 except SE 1/4 SW 1/4, SW 1/4 SE 1/4; Section 13 except NE 1/4 SE 1/4; Section 15; Section 17; N 1/2 Section 18; Section 19; Section 21; Section 23; N 1/2 Section 25; N 1/2 Section 26; Section 27; Section 29; Section 31; Section 33; NW 1/4 Section 34.

T.07S., R.08W. Willamette Meridian: Section 1; SE 1/4 Section 12; Section 13; S 1/2, S 1/2 N 1/2 Section

14; Section 15 except W 1/2 W 1/2; Section 17; Section 18 except W 1/2 W 1/2; Section 19 except W 1/2 W 1/2; W 1/2 Section 20; Section 23; Section 25; Section 27; Section 28 except E 1/2 SW 1/4, S 1/2 NW 1/4; Section 29 except SE 1/4; Section 30 except W 1/2 W 1/2; Section 31 except W 1/2 W 1/2, E 1/2 SE 1/4; Section 32 except NE 1/4; N 1/2, N 1/2 SW 1/4, NW 1/4 SE 1/4 Section 33; Section 35.

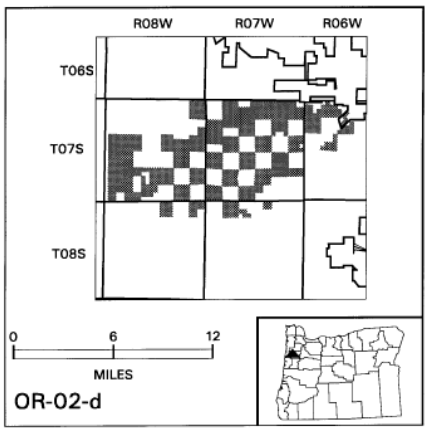
T.08S., R.07W. Willamette Meridian: NE 1/4 Section 3; SW 1/4 SE 1/4, N 1/2 SW 1/4, SE 1/4 SW 1/4 Section 4; Section 5; NE 1/4 NE 1/4 Section 17.

T.08S., R.08W. Willamette Meridian: Section 1 except SE 1/4; Section 3 except W 1/2 W 1/2.

Description of Lands Using Protracted Public Land Survey Lines

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.07S., R.06W. Willamette Meridian: SE 1/4 SW 1/4, SW 1/4 SE 1/4 Section 4; E 1/2 NW 1/4 Section 9.



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Map and description of OR–02–e taken from United States Fish and Wildlife Service 1:100,000 map; Yamhill River, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.01S., R.05W. Willamette Meridian: Section 19 except NW 1/4.

T.02S., R.05W. Willamette Meridian: N 1/2 N 1/2 Section 3; SW 1/4 NE 1/4 Section 5; SW 1/4 SE 1/4, SE 1/4 NE 1/4 Section 7.

T.02S., R.06W. Willamette Meridian: S 1/2 NW 1/4 Section 25; S 1/2 NW 1/4, NE 1/4, S 1/2 S 1/2 Section 26; Section 35.

T.02S., R.08W. Willamette Meridian: Section 31 except W 1/2 NW 1/4, E 1/2 SE 1/4; NW 1/4, SW 1/4 NE 1/4, SE 1/4, N 1/2 SW 1/4 Section 32; Section 33 except NW 1/4 NW 1/4; W 1/2 NW 1/4, NW 1/4 SW 1/4 Section 34.

T.03S., R.06W. Willamette Meridian: N 1/2 NW 1/4 Section 1; Section 7; SE 1/4, NE 1/4 SW 1/4 Section 13; S 1/2 SW 1/4 Section 16; Sections 17–20; W 1/2, W 1/2 E 1/2 Section 21; SE 1/4 SE 1/4 Section 27; SW 1/4, S 1/2 NW 1/4, NW 1/4 SE 1/4, SW 1/4 NE 1/4 Section 28; Section 29; Section 30 except NE 1/4; Section 31; W 1/2 Section 32; Section 33 except SW 1/4; SE 1/4 Section 36.

T.03S., R.07W. Willamette Meridian: S 1/2 Section 5; Section 7; S 1/2 NE 1/4, W 1/2 NW 1/4, N 1/2 SW 1/4, N 1/2 SE 1/4, SE 1/4 SE 1/4 Section 8; Section 9; Section 10 except N 1/2 NE 1/4, NW 1/4 NW 1/4; Section 11; Section 12 except E 1/2 E 1/2, SW 1/4 NE 1/4; Sections 13–15; S 1/2 Section 16; Section 17; SW 1/4, N 1/2 NE 1/4, W 1/2 NW 1/4 Section 18; Section 19; Section 20 except W 1/2 W 1/2, SE 1/4 SW 1/4; Sections 21–25; E 1/2 Section 26; Sections 27–29; E 1/2 Section 30; Section 31; Section 32 except S 1/2 SE 1/4, NE 1/4 SE 1/4; Section 33 except NW 1/4 NW 1/4, SW 1/4 SW 1/4; N 1/2, SE 1/4 Section 34; Section 35; W 1/2 Section 36.

T.03S., R.08W. Willamette Meridian: SW 1/4, S 1/2 SE 1/4 Section 1; SW 1/4 SE 1/4 Section 2; Section 3; NW 1/4, S 1/2 SE 1/4, W 1/2 SW 1/4, SE 1/4 SW 1/4 Section 4; Section 5 except NW 1/4, SW 1/4 NE 1/4; N 1/2 NW 1/4, SE 1/4 Section 6; Section 7 except N 1/2 NE 1/4, SW 1/4 NE 1/4, E 1/2 NW 1/4; Section 8 except S 1/2 SE 1/4; Section 9; Section 10 except N 1/2 NW 1/4, NW 1/4 NE 1/4; Section 11; Section 13; NE 1/4, N 1/2 NW 1/4, SE 1/4 SW 1/4 Section 14; Section 15 except SW 1/4; W 1/2 SW 1/4 Section 16; SW 1/4 SE 1/4, NW 1/4 NW 1/4 Section 17; Section 18 except S 1/2 SE 1/4; Section 19 except N 1/2 NE 1/4; NE 1/4 Section 20; Section 21 except NW 1/4, N 1/2 NE 1/4; Section 22 except SW 1/4 NE 1/4, SE 1/4 NW 1/4; Section 23; Section 24 except N 1/2 NE 1/4, SE 1/4 NE 1/4; Section 25 except NE 1/4 SW 1/4, SW 1/4 NE 1/4, NW 1/4 SE 1/4, SE 1/4 NW 1/4; N 1/2 NE 1/4, NW 1/4 NW 1/4, SE 1/4 SE 1/4; Section 26; Section 27 except NE 1/4 SW 1/4, SW 1/4 NE 1/4, NW 1/4 SE 1/4, SE 1/4 NW 1/4; S 1/2 S 1/2, NW 1/4 NW 1/4 Section 29; S 1/2, W 1/2 NW 1/4 Section 31; Section 32 except SW 1/4, SW 1/4 NW 1/4, W 1/2 SE 1/4; Sections 33–34; S 1/2 Section 35; W 1/2 NE 1/4 Section 36.

T.03S., R.09W. Willamette Meridian: Section 1 except S 1/2 SE 1/4, NE 1/4 SE 1/4, SW 1/4 NW 1/4; SE 1/4 SE 1/4 Section 2; SE 1/4 SE 1/4 Section 10; Section 11 except NW 1/4; Section 12 except NE 1/4 NE 1/4; Section 13 except W 1/2 NW 1/4, E 1/2 NE 1/4; Section 14 except SW 1/4; NE 1/4 NE 1/4 Section 15; NE 1/4 Section 23; E 1/2 NW 1/4, NE 1/4 Section 24.

T.04S., R05W. Willamette Meridian: NW 1/4 SE 1/4 Section 19.

T.04S., R.06W. Willamette Meridian: Section 5 except E 1/2 E 1/2, SW 1/4 SE 1/4; Sections 6–7; S 1/2 SW 1/4, W 1/2 SE 1/4 Section 18.

T.04S., R.07W. Willamette Meridian: Section 1 except NE 1/4; W 1/2, N 1/2 NE 1/4 Section 2; Section 3

except NW 1/4; E 1/2 E 1/2, NW 1/4 NE 1/4, NE 1/4 NW 1/4, SE 1/4 SW 1/4, SW 1/4 SE 1/4 Section 4; N 1/2, E 1/2 SE 1/4, SW 1/4 SW 1/4 Section 5; Section 6 except NE 1/4, W 1/2 SE 1/4; Section 7; SW 1/4, NE 1/4 SE 1/4 Section 8; Section 9; N 1/2 Section 10; Section 11; Section 12 except SE 1/4 SW 1/4; Section 13; Section 14 except N 1/2 NW 1/4, S 1/2 NE 1/4, E 1/2 SE 1/4; Section 15 except SW 1/4 SW 1/4; E 1/2 E 1/2, NW 1/4 NE 1/4 Section 16; Section 17 except N 1/2 S 1/2; Section 18 except NW 1/4.

T.04S., R.08W. Willamette Meridian: SE 1/4 NE 1/4, SE 1/4, Section 1; NW 1/4 NE 1/4, N 1/2 NW 1/4, E 1/2 SW 1/4, SE 1/4 Section 2; N 1/2 N 1/2, S 1/2 S 1/2 Section 3; Section 4 except S 1/2 SE 1/4, NE 1/4 SE 1/4, SE 1/4 SW 1/4; Sections 5–8; Section 9 except NW 1/4 NE 1/4, NE 1/4 NW1/4; Section 10; Section 11 except SE 1/4 NE 1/4, NE 1/4 SE 1/4; Section 12 except NE 1/4 SE 1/4, E 1/2 NE 1/4; Sections 13–14; Section 15 except N 1/2 NE 1/4; Section 16; Sections 17–25; Section 26 except W 1/2 SW 1/4; Section 27 except E 1/2 SE 1/4; Section 28–35; N 1/2 Section 36.

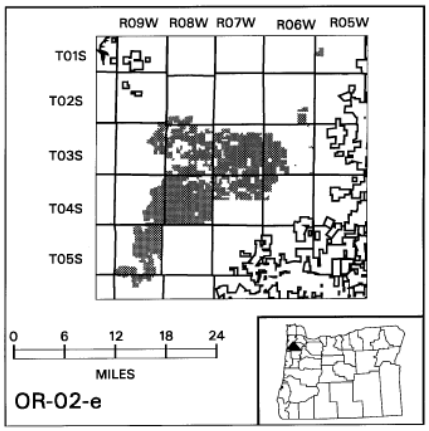
T.04S., R.09W. Willamette Meridian: SE 1/4, SE 1/4 NE 1/4 Section 1; SE 1/4, E 1/2 SW 1/4 Section 11; Section 12 except NW 1/4; Section 13; E 1/2, E 1/2 NW 1/4 Section 14; SE 1/4 SE 1/4 Section 22; Section 23 except N 1/2 NW 1/4, SW 1/4 NW 1/4; Sections 24–26; SE 1/4, E 1/2 NE 1/4, SW 1/4 NE 1/4, SE 1/4 NW 1/4 Section 27; NE 1/4, SE 1/4 SE 1/4 Section 34; N 1/2 N 1/2, S 1/2 S 1/2, SW 1/4 NW 1/4, SE 1/4 NE 1/4, NE 1/4 SE 1/4 Section 35; Section 36.

T.05S., R.09W. Willamette Meridian: Sections 1–2; NE 1/4 NE 1/4, SW 1/4, SE 1/4, SW 1/4 NW 1/4 Section 3; Section 4 except N 1/2 N 1/2, SW 1/4 NW 1/4, W 1/2 SW 1/4; W 1/2, NE 1/4 NW 1/4 Section 9; Section 10–15; Section 16 except W 1/2 W 1/2, NE 1/4 NW 1/4; Section 21 except W 1/2 W 1/2, SE 1/4 SW 1/4 1/4; Section 22; Section 23 except SE 1/4, SW 1/4 NW 1/4; Section 24 except SW 1/4; NE 1/4 NE 1/4 Section 25; Section 26 except E 1/2 E 1/2; Section 27 except E 1/2 NE 1/4, SW 1/4, NW 1/4 NW 1/4; Section 31 except N 1/2 NW 1/4; Section 32; Section 33 except E 1/2 E 1/2; Section 34 except W 1/2; Section 35.

T.06S., R.09W. Willamette Meridian: N 1/2 SW 1/4, NW 1/4 NE 1/4, NW 1/4 Section 2; N 1/2, N 1/2 SW 1/4, SW 1/4 SW 1/4 Section 3; Section 4 except SE 1/4 SE 1/4, SW 1/4 NW 1/4, W 1/2 SW 1/4; N 1/2 Section 5; N 1/2 N 1/2 Section 6; NE 1/4, E 1/2 NW 1/4 Section 9.

Critical Habitat includes only State lands described within the following areas:

T.03S., R.07W. Willamette Meridian: N 1/2 Section 16.



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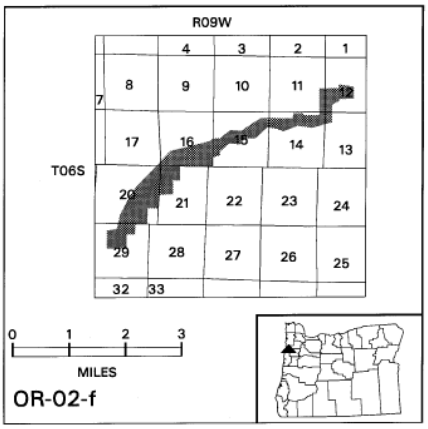
Map and description of OR–02-f taken from United States Fish and Wildlife Service 1:100,000 map; Yamhill River, Oregon; 1995.

Critical Habitat includes only State lands described within the following areas:

T.06S., R.09W. Willamette Meridian: E 1/2 SE 1/4 Section 11; N 1/2 SW 1/4, SW 1/4 SW 1/4 Section 12; NW 1/4 NW 1/4 Section 13; N 1/2 NE 1/4, NW 1/4 Section 14; S 1/2 NE 1/4, S 1/2 NW 1/4, N 1/2 SW 1/4, NE 1/4 NE 1/4, SW 1/4 SW 1/4 Section 15; S 1/2 SW 1/4, SE 1/4, NE 1/4 SW 1/4 Section 16; E 1/2 NE 1/4, SW 1/4 NE 1/4, SE 1/4, SE 1/4 SW 1/4 Section 20; W 1/2 NW 1/4, NE 1/4 NW 1/4 Section 21; W 1/2 NE 1/4, E 1/2 NW 1/4 Section 29.



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Map and description of OR–03–a taken from United States Fish and Wildlife Service 1:100,000 map; Corvallis, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.09S., R.09W. Willamette Meridian: SE 1/4 SE 1/4 Section 33; SW 1/4 SW 1/4 Section 34.

T.10S., R.10W. Willamette Meridian: NW 1/4 SE 1/4 Section 2.

Critical Habitat includes only State lands described within the following areas:

T.09S., R.09W. Willamette Meridian: E 1/2 SW 1/4, W 1/2 SE 1/4, NE 1/4 SE 1/4 Section 34.

T.10S., R.09W. Willamette Meridian: NW 1/4, W 1/2 NE 1/4 Section 16; N 1/2 NE 1/4, NE 1/4 NW 1/4 Section 17.

Critical Habitat includes only County lands described within the following areas:

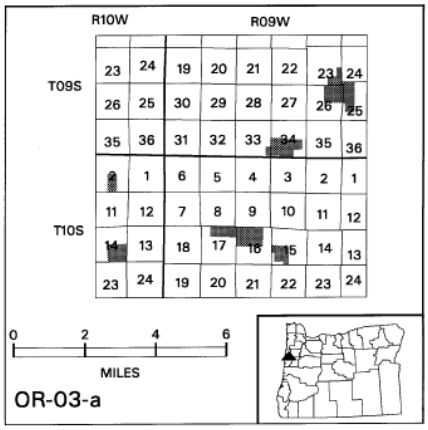
T.10S., R.10W. Willamette Meridian:SW 1/4 SE 1/4 Section 2.

Critical Habitat includes only Private lands described within the following areas:

T.09S., R.09W. Willamette Meridian: S 1/2 SE 1/4, NE 1/4 SE 1/4 Section 23; W 1/2 NW 1/4, NW 1/4 SW 1/4 Section 25; NE 1/4 Section 26; W 1/2 SW 1/4 Section 34.

T.10S., R.09W. Willamette Meridian: SW 1/4 Section 15.

T.10S., R.10W. Willamette Meridian: SE 1/4 Section 14.



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Map and description of OR–03–b taken from United States Fish and Wildlife Service 1:100,000 map; Corvallis, Oregon; 1995.

Critical Habitat includes only State lands described within the following areas:

T.10S., R.06W. Willamette Meridian: W 1/2 SW 1/4 Section 30.

T.10S., R.07W. Willamette Meridian: S 1/2 Section 25; N 1/2 Section 36.

T.11S., R.07W. Willamette Meridian: S 1/2 N 1/2, SE 1/4 Section 16; N 1/2 Section 21; S 1/2, NW 1/4 Section 29; Section 31; Section 32 except E 1/2 SE 1/4, NE 1/4 SE 1/4.

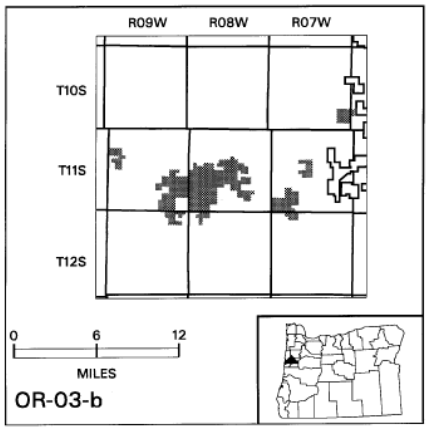
T.11S., R.08W. Willamette Meridian: W 1/2 SW 1/4 Section 14; Section 15 except N 1/2 NE 1/4; Section 16 except S 1/2 SW 1/4; SW 1/4, W 1/2 SE 1/4 Section 17; S 1/2 SE 1/4, E 1/2 SW 1/4 Section 18; Sections 19–21; W 1/2, S 1/2 SE 1/4, NE 1/4 SE 1/4, NE 1/4 NE 1/4 Section 22; SW 1/4, NW 1/4 NW 1/4 Section 23; SW 1/4, NW 1/4 SE 1/4, S 1/2 N 1/2 Section 26; Section 27 except SW 1/4, NE 1/4 NE 1/4; N 1/2 NW 1/4 Section 28; Sections 29–31; Section 32 except SE 1/4; N 1/2 NW 1/4 Section 35.

T.11S., R.09W. Willamette Meridian: S 1/2 Section 7; NW 1/4 NW 1/4 Section 17; SE 1/4, S 1/2 NE 1/4, NE 1/4 NE 1/4, SE 1/4 NW 1/4 Section 18; Section 23 except NW 1/4; S 1/2, NW 1/4 NW 1/4 Section 24; Section 25; Section 26 except S 1/2 NW 1/4, N 1/2 SW 1/4; NE 1/4 Section 27; E 1/2 SE 1/4, SE 1/4 NE 1/4 Section 34; Section 35.

T.12S., R.07W. Willamette Meridian: Section 5 except S 1/2, SW 1/4 NW 1/4.

T.12S., R.08W. Willamette Meridian: NW 1/4 Section 5; E 1/2 E 1/2, SW 1/4 NE 1/4 Section 6.

T.12S., R.09W. Willamette Meridian S 1/2 SW 1/4, N 1/2 NW 1/4, SE 1/4 NW 1/4, NW 1/4 NE 1/4 Section 1; E 1/2, E 1/2 NW 1/4 Section 2.



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Map and description of OR–03–c taken from United States Fish and Wildlife Service 1:100,000 map; Corvallis, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.08S., R.06W. Willamette Meridian: SE 1/4 NE 1/4, NE 1/4 NE 1/4, SW 1/4 NE 1/4, S 1/2 NW 1/4, NW 1/4 NW 1/4, S 1/2 SE 1/4, SW 1/4 Section 31; W 1/2 NW 1/4 Section 33.

T.08S., R.07W. Willamette Meridian: Section 31 except S 1/2 SE 1/4.

T.09S., R.06W. Willamette Meridian: N 1/2 NE 1/4, NW 1/4 Section 5; NE 1/4, NW 1/4, N 1/2 SE 1/4 Section 7.

T.09S., R.07W. Willamette Meridian: Section 1 except NW 1/4 NW 1/4; Section 3 except NE 1/4; Section 9 except SE 1/4 SE 1/4; Section 11; Section 13; W 1/2, W 1/2 NE 1/4, NW 1/4 SE 1/4 Section 15; SE 1/4, E 1/2 SW 1/4 Section 17; NW 1/4, NW 1/4 SW 1/4 Section 21; E 1/2 NE 1/4, NE 1/4 SE 1/4 Section 23; Section 29 except SE 1/4; Section 31; S 1/2, SE 1/4 NW 1/4 Section 33; W 1/2 W 1/2, NE 1/4 NE 1/4 Section 35.

T.09S., R.08W. Willamette Meridian: N 1/2 NW 1/4, SW 1/4 NW 1/4, W 1/2 SW 1/4 Section 11; Section 27 except N 1/2 NE 1/4; Section 35.

T.10S., R.05W. Willamette Meridian: SW 1/4 NE 1/4, W 1/2 SE 1/4, SW 1/4, SE 1/4 NW 1/4 Section 29.

T.10S., R.07W. Willamette Meridian: N 1/2 Section 1; W 1/2 NW 1/4 Section 4; N 1/2 Section 5.

Critical Habitat includes only State lands described within the following areas:

T.08S., R.07W. Willamette Meridian: SE 1/4 Section 11; SE 1/4 1/4 Section 12; N 1/2, N 1/2 SE 1/4 Section 13; E 1/2, SW 1/4 Section 14.

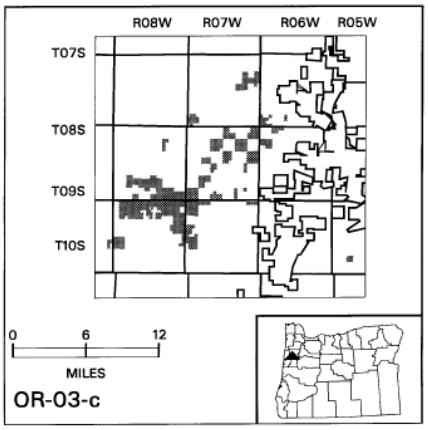
T.09S., R.08W. Willamette Meridian: Section 28 except N 1/2 N 1/2; S 1/2, NW 1/4, S 1/2 NE 1/4 Section 29; SE 1/4 Section 32; NE 1/4 Section 33; Section 34 except NW 1/4; Section 36 except N 1/2 N 1/2.

T.10S., R.07W. Willamette Meridian: Section 6; N 1/2 N 1/2 Section 7; NW 1/4, SW 1/4, SE 1/4 SE 1/4, NW 1/4 NE 1/4 Section 18; Section 19 except W 1/2 SW 1/4.

T.10S., R.08W. Willamette Meridian: Section 1 except SE 1/4; Section 2; NE 1/4, NW 1/4, NW 1/4 SW1 1/4, SW 1/4 SW 1/4, NE 1/4 SE 1/4, NW 1/4 SE 1/4 Section 3; Section 4 except SW 1/4 SE 1/4, SE 1/4 SW 1/4; Section 5; E 1/2 Section 6; NE 1/4 Section 7; NE 1/4, E 1/2 NW 1/4, NW 1/4 NW 1/4 Section 8; NW 1/4, NE 1/4 NE 1/4 Section 9; NW 1/4, NE 1/4 Section 10; N 1/2 N 1/2 Section 11; Section 12; Section 13 except S 1/2 SW 1/4, SW 1/4 SE 1/4; Section 19; E 1/2 NE 1/4, N 1/2 SE 1/4 Section 24.

Critical Habitat includes only Private lands described within the following areas:

T.09S., R.08W. Willamette Meridian: S 1/2 SW 1/4 Section 29.



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Map and description of OR–04–a taken from United States Fish and Wildlife Service 1:100,000 map; Corvallis, Waldport and Eugene, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.11S., R.10W. Willamette Meridian: SE 1/4 SE 1/4 Section 35.

T.12S., R.09W. Willamette Meridian: N 1/2 N 1/2 Section 6; Section 7 except NW 1/4 NE 1/4; Section 8 except NE 1/4 NW 1/4, W 1/2 NE 1/4, NE 1/4 NE 1/4; SE 1/4 SE 1/4 Section 14; S 1/2 NW 1/4, SW 1/4, W 1/2 SE 1/4 Section 15; S 1/2, S 1/2 N 1/2 Section 16; Sections 17–18; Section 19 except W 1/2 W 1/2, NE 1/4 NE 1/4, SE 1/4 SW 1/4; Section 20 except SE 1/4 NW 1/4, S 1/2 NE 1/4; Section 21; Section 22 except NE 1/4 NE 1/4; Section 23 except NW 1/4 NW 1/4; Section 26 except NE 1/4 NE 1/4, SE 1/4 SE 1/4; Sections 27–28; N 1/2 NW 1/4, NW 1/4 NE 1/4 Section 29; W 1/2 Section 33.

T.12S., R.10W. Willamette Meridian: Sections 1–2; Section 3 except E 1/2 NW 1/4, S 1/2 NE 1/4; Section 4; S 1/2, E 1/2 NE 1/4, SW 1/4 NW 1/4 Section 5; SE 1/4 SE 1/4 Section 6; Sections 7–8; N 1/2, N 1/2 SE 1/4 Section 9; N1 1/2 Section 10; Section 11 except SW 1/4 SW 1/4; Section 12; W 1/2 NE 1/4, E 1/2 NW 1/4, NE 1/4 NE 1/4 Section 13; Sections 16–17; Section 18; Sections 19–21; Section 25 except S 1/2 S 1/2, N 1/2 NW 1/4; S 1/2 SE 1/4 Section 26; Section 28; Section 29 except SW 1/4, NW 1/4 SE 1/4; Section 30 except S 1/2 S 1/2; E 1/2 SE 1/4 Section 31; Section 32 except W 1/2 NW 1/4; Section 33 except SW 1/4 SE 1/4; N 1/2 SE 1/4, NE 1/4 Section 35.

T.12S., R.11W. Willamette Meridian: S 1/2 NW 1/4, S 1/2 SW 1/4, NE 1/4 SW 1/4, W 1/2 SE 1/4, SW 1/4 NE 1/4 Section 9; SE 1/4, S 1/2 SW 1/4, SW 1/4 SW 1/4 Section 11; S 1/2 Section 12; Section 13 except S 1/2 S 1/2; Section 14 except N 1/2 SW 1/4, N 1/2 SE 1/4, SE 1/4 SE 1/4; NE 1/4 Section 22; Sections 23–24; Section 25 except W 1/2 SW 1/4, SW 1/4 NW 1/4; Section 26 except SE 1/4 NE 1/4; E 1/2 Section 27; Section 35; Section 36 except E 1/2 SE 1/4, SE 1/4 NE 1/4.

T.13S., R.09W. Willamette Meridian: Section 2 except SE 1/4; NE 1/4 Section 4; SW 1/4 Section 5; Section 6–7; W 1/2 Section 8; Sections 18–19; N 1/2 SW 1/4, E 1/2 SE 1/4, NW 1/4 SE 1/4 Section 20; SW 1/4 SW 1/4 Section 21; Section 28 except N 1/2 NE 1/4, NE 1/4 NW 1/4; Section 29 except NW 1/4 SW 1/4; Section 30; Section 31 except N 1/2 SW 1/4, S 1/2 NW 1/4; Section 32–33; W 1/2 W 1/2, E 1/2 SW 1/4, SE 1/4 Section 34; SW 1/4 SE 1/4, SE 1/4 SW 1/4 Section 35.

T.13S., R.10W. Willamette Meridian: Section 1; Section 2; E 1/2 E 1/2 Section 3; S 1/2 SW 1/4, SW 1/4 NE 1/4, W 1/2 SE 1/4 Section 7; E 1/2 SE 1/4 Section 9; Section 10 except SW 1/4 NW 1/4; Sections 11–15; Section 16 except N 1/2 NW 1/4; Section 17 except N 1/2, NW 1/4 SW 1/4; Section 18; Sections 19–25; Section 26 except SW 1/4 SW 1/4, SE 1/4 SE 1/4; N 1/2 NE 1/4, SE 1/4 NE 1/4, Section 27; SE 1/4 SW 1/4, NW 1/4 Section 28; Section 29; N 1/2, N 1/2 SE 1/4, NE 1/4 SW 1/4, SW 1/4 SW 1/4 Section 30; S 1/2, E 1/2 NE 1/4 Section 31; E 1/2 SE 1/4, S 1/2 SW 1/4, NW 1/4 SW 1/4, NW 1/4, NW 1/4 NE 1/4 Section 32; W 1/2 Section 33; E 1/2 SE 1/4, NE 1/4 SE 1/4, NE 1/4 NE 1/4 Section 34; Section 35 except SE 1/4 NE 1/4, NE 1/4 NW 1/4.

T.13S., R.11W. Willamette Meridian: Section 1 except SE 1/4 SE 1/4; Section 2; Section 11 except W 1/2 SW 1/4, SE 1/4 SW 1/4; NW 1/4, W 1/2 NE 1/4, W 1/2 SW 1/4, SE 1/4 SE 1/4 Section 12; Section 13 except W 1/2 W 1/2, NE 1/4 NW 1/4, S 1/2 SE 1/4; N 1/2 N 1/2, SW 1/4 NW 1/4, S 1/2 SW 1/4, SW 1/4 SE 1/4, SE 1/4 SW 1/4 Section 14; Section 15 except N 1/2 NW 1/4, SW 1/4 NW 1/4, NW 1/4 SW 1/4; NE 1/4 NW 1/4, N 1/2 NE 1/4 Section 22; NW 1/4, SW 1/4 NE 1/4 Section 23; S 1/2 NE 1/4, S 1/2, NW 1/4 NW 1/4 Section 24; Section 25 except S 1/2 N 1/2, N 1/2 SE 1/4; S 1/2 SW 1/4, NW 1/4 SW 1/4, SE 1/4 Section 26; E 1/2, E 1/2 W 1/2 Section 34; Section 35; Section 36 except SE 1/4, E 1/2 NE 1/4.

T.14S., R.09W. Willamette Meridian: Section 2 except NE 1/4 NE 1/4, S 1/2 S 1/2; Section 3 except S 1/2 S 1/2, N 1/2 SW 1/4; Section 4 except S 1/2 S 1/2, N 1/2 SE 1/4; Section 5 except S 1/2 SE 1/4, N 1/2 SW 1/4, SE 1/4 SW 1/4, NW 1/4 SE 1/4; E 1/2, S 1/2 SW 1/4 Section 6; Section 7 except S 1/2 SW 1/4, NW 1/4 SE 1/4, NE 1/4 SW 1/4; N 1/2 NW 1/4, SE 1/4, S 1/2 SW 1/4, SE 1/4 NE 1/4 Section 8; Section 9 except NW 1/4 NW 1/4; Section 10 except N 1/2 NE 1/4; Section 11 except N 1/2 NW 1/4, NE 1/4, N 1/2 SE 1/4, SW 1/4 SE 1/4; S 1/2 S 1/2 Section 12; SW 1/4, S 1/2 SE 1/4, N 1/2 NW 1/4, NW 1/4 NE 1/4 Section 13; Sections 14 except NW 1/4 NE 1/4, SE 1/4 NW 1/4, N 1/2 SW 1/4, SE 1/4 SW 1/4; Sections 15–16; S 1/2 NE 1/4, N 1/2 SW 1/4, SE 1/4 NW 1/4, SW 1/4 SW 1/4 Section 18; N 1/2 NW 1/4, NE 1/4, SW 1/4 NW 1/4, NE 1/4 SE 1/4, SE 1/4 SW 1/4 Section 19; S 1/2 NW 1/4, NW 1/4 SW 1/4 Section 20; N 1/2 NE 1/4, NE 1/4 NW 1/4 Section 21; NW 1/4 NW 1/4 Section 22; E 1/2, E 1/2 NW 1/4 Section 23; W 1/2 W 1/2 Section 24; W 1/2, W 1/2 E 1/2 Section 25; E 1/2 Section 26; S 1/2 NW 1/4, NW 1/4 NW 1/4 Section 36.

T.14S., R.10W. Willamette Meridian: Section 1 except N 1/2 SE 1/4, E 1/2 NE 1/4; Section 2; Section 3 except SW 1/4; Section 4; Section 5 except W 1/2 NE 1/4, SE 1/4 NW 1/4; Section 6; N 1/2 Section 7; Section 8 except SW 1/4; Section 9 except S 1/2 SW 1/4; Sections 10–13; Section 14; Section 15; N 1/2, N 1/2 SE 1/4, SE 1/4 SE 1/4, NE 1/4 SW 1/4 Section 16; Section 17 except N 1/2 NW 1/4; N 1/2 Section 20; E 1/2, E 1/2 NW 1/4, NW 1/4 SW 1/4 Section 23; Section 24 except E 1/2 NE 1/4, NE 1/4 SE 1/4; NW 1/4 Section 25.

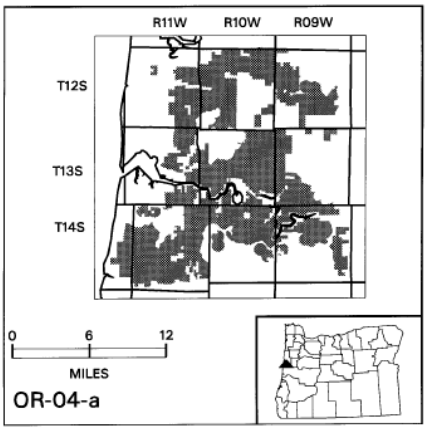
T.14S., R.11W. Willamette Meridian: Sections 1–2; SE 1/4 NW 1/4, SW 1/4 SE 1/4; Section 3; N 1/2 NE 1/4, NE 1/4 NW 1/4, W 1/2 NW 1/4 Section 4; S 1/2 NW 1/4, NW 1/4 NW 1/4, SW 1/4 SE 1/4, NE 1/4, S 1/2 SW 1/4 Section 5; NE 1/4, SE 1/4 NW 1/4 Section 6; Section 7; Section 8 except NE 1/4 NE 1/4; S 1/2 SE 1/4, NE 1/4 SE 1/4, SW 1/4 NW 1/4, W 1/2 SW 1/4 Section 9; Section 10 except W 1/2 W 1/2, NE 1/4 NW 1/4, NE 1/4 SW 1/4, NE 1/4 NE 1/4; Section 11; W 1/2, NW 1/4 NE 1/4 Section 12; W 1/2 W 1/2, NE 1/4 NW 1/4 Section 13; Section 14; Section 15 except NE 1/4 SE 1/4; Section 16 except NW 1/4 NW 1/4; Section 17 except SE 1/4 NE 1/4; Sections 18–21; Section 22 except S 1/2 N 1/2, N 1/2 SW 1/4, N 1/2 NE 1/4; Section 23; Section 24 except NE 1/4; Section 25 except W 1/2 NW 1/4; Section 26 except NE 1/4 NE 1/4, S 1/2 SE 1/4, NE 1/4 SW 1/4; Sections 27–30; N 1/2, NE 1/4 SW 1/4 Section 31; NW 1/4, N 1/2 NE 1/4, N 1/2 SW 1/4 Section 32; N 1/2 Section 33; N 1/2 N 1/2, SW 1/4 NW 1/4 Section 34; N 1/2 NW 1/4 Section 35.

T.14S., R.12W. Willamette Meridian: S 1/2 SE 1/4, SE 1/4 SW 1/4 Section 1; Section 12 except W 1/2 W 1/2; Section 13 except NW 1/4 NW 1/4; E 1/2 SE 1/4, SE 1/4 NE 1/4 Section 14; SE 1/4, E 1/2 NE 1/4, W 1/2 SW 1/4 Section 23; Sections 24–25.

Description of Lands Using Protracted Public Land Survey Lines

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.14S., R.09W. Willamette Meridian: E 1/2 NW 1/4, W 1/2 NE 1/4 Section 8.



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Map and description of OR–04–b taken from United States Fish and Wildlife Service 1:100,000 map; Waldport, Eugene, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.14S., R.09W. Willamette Meridian: SE 1/4, S 1/2 SW 1/4, NW 1/4 SW 1/4, SW 1/4 NW 1/4 Section 28; Section 29 except N 1/2 NE 1/4; S 1/2, S 1/2 N 1/2 Section 30; Section 31; Section 32; Section 33 except SE 1/4 NE 1/4, NE 1/4 SW 1/4; Section 34 except W 1/2 NW 1/4, W 1/2 NE 1/4; S 1/2 S 1/2, SW 1/4 NW 1/4, E 1/2 NW 1/4, N 1/2 SW 1/4 Section 35.

T.14S., R.10W. Willamette Meridian: SE 1/4 NE 1/4, E 1/2 SE 1/4 Section 25; Section 29 except NE 1/4 NE 1/4; Sections 30–32.

T.14S., R.11W. Willamette Meridian: SE 1/4, S 1/2 SW 1/4 Section 35; Section 36 except NW 1/4, N 1/2 NE 1/4.

T.15S., R.09W. Willamette Meridian: W 1/2 W 1/2 Section 1; Sections 2–5; Section 6 except S 1/2 SW 1/4, SW 1/4 SE 1/4; E 1/2 NE 1/4, SW 1/4 NE 1/4, SW 1/4, W 1/2 SE 1/4, W 1/2 NW 1/4 Section 7; N 1/2 NW 1/4, NW 1/4 NE 1/4, E 1/2 SE 1/4, SW 1/4 SE 1/4, SE 1/4 SW 1/4 Section 8; Section 9 except S 1/2 SW 1/4; Section 10 except SE 1/4; Section 11; N 1/2 SW 1/4, S 1/2 NW 1/4, NW 1/4 NW 1/4 Section 12; E 1/2, E 1/2 SW 1/4, SW 1/4 SW 1/4, NW 1/4 NW 1/4, SE 1/4 NW 1/4 Section 13; Section 14 except NE 1/4 SE 1/4; Section 15; E 1/2 NE 1/4, SW 1/4 NE 1/4, S 1/2 NW 1/4, NW 1/4 NW 1/4, SE 1/4, E 1/2 SW 1/4 Section 16; E 1/2 NE 1/4, SW 1/4 NE 1/4, W 1/2 SW 1/4 Section 17; Section 18 except NE 1/4 NE 1/4; Section 19; SE 1/4, NW 1/4 NW 1/4, S 1/2 NE 1/4 Section 20; Section 21; Section 22 except E 1/2 SW 1/4; Sections 23–26; E 1/2, E 1/2 SW 1/4, SW 1/4 SW 1/4, SE 1/4 NW 1/4 Section 27; Section 28; E 1/2, E 1/2 NW 1/4, SE 1/4 SW 1/4 Section 29; N 1/2 NW 1/4, NW 1/4 NE 1/4 Section 30; Section 32 except W 1/2 NW 1/4, NW 1/4 SW 1/4; Sections 33–36.

T.15S., R.10W. Willamette Meridian: Section 1 except N 1/2 NW 1/4, SE 1/4 NW 1/4, NW 1/4 NE 1/4, SE 1/4; E 1/2 SE 1/4 Section 2; W 1/2 SW 1/4, SE 1/4 SW 1/4 Section 4; Sections 5–8; W 1/2, W 1/2 SE 1/4, SW 1/4 NE 1/4 Section 9; NE 1/4 NE 1/4 Section 11; NW 1/4, E 1/2 Section 12; E 1/2 NE 1/4, NW 1/4 NE 1/4, S 1/2 SW 1/4 Section 13; SW 1/4, SW 1/4 NW 1/4, SE 1/4 SE 1/4 Section 14; SW 1/4 SW 1/4, E 1/2 SW 1/4, E 1/2 NW 1/4, E 1/2 Section 15; S 1/2 S 1/2 Section 16; Sections 17–22; E 1/2, SE 1/4 SW 1/4, NW 1/4 NW 1/4 Section 23; Section 24 except NE 1/4 NE 1/4, SW 1/4 SE 1/4; SW 1/4 Section 25; Section 26 except NE 1/4; Sections 27–34; E 1/2, N 1/2 NW 1/4, SE 1/4 NW 1/4, NE 1/4 SW 1/4 Section 35; NE 1/4 NW 1/4 Section 36.

T.15S., R.11W. Willamette Meridian: Section 1; N 1/2 N 1/2, SE 1/4 NE 1/4, SW 1/4 SW 1/4, SE 1/4 SE 1/4 Section 2; E 1/2 SE 1/4, SW 1/4 SE 1/4, S 1/2 SW 1/4 Section 3; Section 4 except N 1/2 NW 1/4; NW 1/4 SW 1/4, SW 1/4 NW 1/4 Section 5; SW 1/4, W 1/2 NW 1/4, SE 1/4 NW 1/4, S 1/2 NE 1/4, SE 1/4 Section 6; W 1/2 Section 7; NE 1/4, S 1/2 NW 1/4, NE 1/4 SW 1/4, N 1/2 SE 1/4, NE 1/4 NW 1/4 Section 8; Section 9 except SW 1/4 SW 1/4, NW 1/4 NE 1/4, NE 1/4 NW 1/4; Section 10–11; Section 12 except SE 1/4 SW 1/4; Section 13 except N 1/2 NW 1/4, SE 1/4 NW 1/4; Section 14; Section 15 except SW 1/4; NE 1/4 NE 1/4 Section 16; E 1/2 SE 1/4 Section 21; E 1/2 E 1/2, W 1/2 SE 1/4, SW 1/4 Section 22; Sections 23–27; Section 28 except N 1/2 N 1/2; S 1/2, SE 1/4 NE 1/4 Section 29; S 1/2, S 1/2 NW 1/4, SW 1/4 NE 1/4 Section 30; Section 31 except N 1/2 NW 1/4, NW 1/4 NE 1/4, SE 1/4 NE 1/4; Section 32 except S 1/2 N 1/2, NE 1/4 SE 1/4; Section 33 except S 1/2 SE 1/4; Section 34 except S 1/2 S 1/2, NE 1/4 SE 1/4, SE 1/4 NE 1/4; Section 35 except SW 1/4 NW 1/4, NW 1/4 NE 1/4, NW 1/4 SW 1/4, S 1/2 SW 1/4; Section 36.

T.15S., R.12W. Willamette Meridian: Section 1 except NW 1/4; Section 2; E 1/2, E 1/2 NW 1/4 Section 3; N 1/2 NE 1/4, SE 1/4 NE 1/4, NE 1/4 NW 1/4 Section 10; Section 11 except SE 1/4 SE 1/4; Section 12 except S 1/2 S 1/2; SE 1/4 Section 22; Section 25 except NE 1/4 NE 1/4; S 1/2, NE 1/4, S 1/2 NW 1/4 Section 26; E 1/2 E 1/2 Section 27; E 1/2 Section 34; Section 35; Section 36 except N 1/2 N 1/2.

T.16S., R.09W. Willamette Meridian: Section 1 except N 1/2 S 1/2, SE 1/4 SE 1/4; Section 2 except E 1/2 SE 1/4; Sections 3–5; Section 6 except N 1/2 N 1/2, SW 1/4 NE 1/4; Section 7 except E 1/2 NE 1/4; Sections 8–15; Section 16 except SE 1/4; Section 17; Section 18 except SW 1/4 SW 1/4; Section 19; NW 1/4 NW 1/4, NW 1/4 SW 1/4, N 1/2 NE 1/4 Section 20; Section 21 except SW 1/4 SW 1/4; Sections 22–24; N 1/2 NW 1/4, NW 1/4 SW 1/4, W 1/2 NE 1/4, SW 1/4 NW 1/4 Section 25; Section 26 except S 1/2 SE 1/4; Sections 27–28; Section 29 except N 1/2 NW 1/4, NW 1/4 NE 1/4; Section 30; W 1/2 Section 31; Sections 32–34; Section 35 except NE 1/4, S 1/2 SW 1/4, E 1/2 NW 1/4.

T.16S., R.10W. Willamette Meridian: SE 1/4, S 1/2 NE 1/4 Section 1; SW 1/4 SE 1/4, SW 1/4 Section 2; Section 3 except E 1/2 NE 1/4, NE 1/4 SE 1/4, NW 1/4 SW 1/4; SW 1/4, NW 1/4 NW 1/4, S 1/2 SE 1/4, NE 1/4 NE 1/4 Section 4; Section 5 except SE 1/4 NE 1/4; Sections 6–9; Section 10 except SE 1/4 NE 1/4, SW 1/4 SW 1/4; N 1/2, NW 1/4 SE 1/4, NE 1/4 SE 1/4, SW 1/4 SW 1/4 Section 11; Section 12 except SW 1/4 NE 1/4, NW 1/4; Section 13 except S 1/2 SE 1/4, SE 1/4 SW 1/4; Section 14; Section 15 except W 1/2 W 1/2, SE 1/4 SW 1/4, NE 1/4 NW 1/4; Section 16 except N 1/2 NE 1/4, S 1/2 SE 1/4; Section 17–21; Section 22 except W 1/2 E 1/2, NE 1/4 NE 1/4; Section 23; Section 24 except NW 1/4 NE 1/4, E 1/2 NW 1/4, NE 1/4 SW 1/4; N 1/2 NW 1/4, NE 1/4 NE 1/4, E 1/2 SE 1/4, W 1/2 SW 1/4 Section 25; Section 26 except S 1/2 SW 1/4, NW 1/4 SW 1/4; Section 27 except S 1/2 NE 1/4, E 1/2 SE 1/4, NW 1/4 SE 1/4; Section 28; Section 29 except SW 1/4 SE 1/4, SE 1/4 SW 1/4; Section 30 except NW 1/4 SE 1/4, NE 1/4 SW 1/4; Section 31;

Section 32 except N 1/2 N 1/2; Section 33 except W 1/2 NW 1/4, SE 1/4 NW 1/4, E 1/2 NE 1/4, SW 1/4 NE 1/4; NW 1/4 NE 1/4, NW 1/4, W 1/2 SW 1/4 Section 34; NE1/4 Section 35.

T.16S., R.11W. Willamette Meridian: E 1/2, E 1/2 NW 1/4 Section 1; Section 2 except SW 1/4 NW 1/4; W 1/2 Section 3; Section 4–6; N 1/2 N 1/2, S 1/2 NE 1/4 Section 8; N 1/2 Section 9; Section 10 except SE 1/4 SE 1/4; Section 11 except S 1/2 SW 1/4, SW 1/4 SE 1/4; Section 12 except NE 1/4 NW 1/4; Section 13; Section 14 except N 1/2 NW 1/4; S 1/2 NE 1/4, SE 1/4 Section 15; Section 19 except N 1/2 N 1/2, SE 1/4 NE 1/4, NE 1/4 SE 1/4; S 1/2 SW 1/4, NE 1/4 SE 1/4, W 1/2 SE 1/4 Section 20; S 1/2 SE 1/4, SW 1/4 Section 21; Section 22 except NW 1/4 NW 1/4; Sections 23–27; Section 28 except NW 1/4 NW 1/4; Section 29 except NE 1/4 NE 1/4; Sections 30–36.

T.16S., R.12W. Willamette Meridian: Sections 1 except S 1/2 S 1/2; Section 2; E 1/2 Section 3; NE 1/4, N 1/2 SE 1/4, SW 1/4 SE 1/4, E 1/2 SW 1/4 Section 10; N 1/2 Section 11; S 1/2 S 1/2 Section 14; W 1/2, SE 1/4 SE 1/4 Section 15; N 1/2 NE 1/4 Section 22; Section 23 except N 1/2 NE 1/4; Sections 24–26; Sections 35–36.

T.17S., R.08W. Willamette Meridian: N 1/2 SE 1/4 Section 18.

T.17S., R.09W. Willamette Meridian: Section 1 except E 1/2 SE 1/4, SW 1/4 SE 1/4; Section 2 except E 1/2 W 1/2, S 1/2 NE 1/4; Section 3 except S 1/2 SE 1/4, NE 1/4 SE 1/4, SE 1/4 NE 1/4; Section 4 except S 1/2 SW 1/4, SW 1/4 SE 1/4; Section 5; Section 6 except NW 1/4; Section 7; Section 8; W 1/2 Section 9; N 1/2 NW 1/4, NW 1/4 NE 1/4 Section 10; W 1/2 NE 1/4, E 1/2 NW 1/4, NE 1/4 NE 1/4, S 1/2 SW 1/4 Section 11; SE 1/4 SE 1/4 Section 14; W 1/2 W 1/2 Section 16; Section 17 except W 1/2 SE 1/4, SE 1/4 SW 1/4; Sections 18–19; Section 20 except E 1/2 E 1/2, NW 1/4 NE 1/4; NW 1/4 NW 1/4 Section 21; S 1/2 SW 1/4 Section 25; S 1/2 SE 1/4 Section 26; W 1/2 NW 1/4 Section 28; N 1/2 Section 29; N 1/2 N 1/2, W 1/2 SW 1/4, SW 1/4 NW 1/4, SE 1/4 SW 1/4 Section 30; Section 31 except S 1/2 NE 1/4, NE 1/4 SE 1/4; E 1/2 NE 1/4, NW 1/4 NE 1/4, S 1/2 SE 1/4, SW 1/4 NW 1/4 Section 32; S 1/2 SE 1/4 Section 33; S 1/2 S 1/2, N 1/2 SE 1/4 Section 34; S 1/2 SE 1/4, SE 1/4 SW 1/4 Section 35.

T.17S., R.10W. Willamette Meridian: SE 1/4 SE 1/4 Section 1; Section 3 except E 1/2, NE 1/4 NW 1/4; Section 4; Section 5 except SW 1/4 NW 1/4; Section 6 except S 1/2 NE 1/4, NW 1/4 SE 1/4; Section 7–9; N 1/2, NW 1/4 SE 1/4, W 1/2 SW 1/4 Section 10; SW 1/4 NW 1/4 Section 11; E 1/2 E 1/2, NE 1/4 NW 1/4, NW 1/4 NE 1/4, SW 1/4 SE 1/4, S 1/2 SW 1/4 Section 12; Section 13; S 1/2, SE 1/4 NE 1/4, SW 1/4 NW 1/4 Section 14; SE 1/4, NW 1/4 NW 1/4, SE 1/4 NE 1/4 Section 15; Section 16 except W 1/2 NE 1/4, NE 1/4 SE 1/4; Sections 17–18; Section 19 except SW 1/4 NW 1/4, SW 1/4 SE 1/4, S 1/2 SW 1/4; Section 20–21; Section 22 except N 1/2 NW 1/4; Section 23 except N 1/2 SW 1/4, S 1/2 SE 1/4; NW 1/4, N 1/2 NE 1/4, N 1/2 SW 1/4 Section 24; Section 25 except N 1/2 NE 1/4; Section 26; Section 27 except SW 1/4 SW 1/4, SW 1/4 NW 1/4, NE 1/4 NW 1/4; Section 28 except SE 1/4 SE 1/4; Section 29 except S 1/2 SW 1/4; Sections 30–31; Section 32 except N 1/2 NW 1/4, NE 1/4 NW 1/4 ; Section 33 except NE 1/4 NE 1/4; NE 1/4, SW 1/4, SW 1/4 NW 1/4, SW 1/4 SE 1/4, NE 1/4 SE 1/4, NE 1/4 NW 1/4 Section 34; Section 35 except SW 1/4 SW 1/4, SW 1/4 SE 1/4.

T.17S., R.11W. Willamette Meridian: Section 1 except SE 1/4 SW 1/4, S 1/2 SE 1/4; Section 2; S 1/2, E 1/2 NE 1/4, NW 1/4 NW 1/4, S 1/2 NW 1/4 Section 3; Sections 4–5; Section 6 except S 1/2 SE 1/4; S 1/2 NE 1/4, S 1/2, NE 1/4 NW 1/4, S 1/2 NW 1/4 Section 7; Sections 8–9; NW 1/4, NW 1/4 SW 1/4 Section 10; Section 11 except SE 1/4 NW 1/4, W 1/2 NW 1/4, SW 1/4; Section 12; SE 1/4 NE 1/4, N 1/2 N 1/2 Section 13; NE 1/4 NE 1/4, SW 1/4 SE 1/4, E 1/2 SW 1/4 Section 14; Section 16 except E 1/2 E 1/2; W 1/2, S 1/2 SE 1/4, NW 1/4 SE 1/4 Section 17; Section 18; Section 19 except NW 1/4 NW 1/4, SW 1/4 SW 1/4; Section 20; W 1/2, SW 1/4 NE 1/4, NW 1/4 SE 1/4 Section 21; E 1/2 NE 1/4 Section 22; NW 1/4, W 1/2 NE 1/4, N 1/2 S 1/2 Section 23; SE 1/4 SE 1/4 Section 24; Section 25 except N 1/2 NW 1/4; E 1/2 SE 1/4 Section 26; W 1/2 Section 28; Section 29; S 1/2 NW 1/4, NE 1/4, N 1/2 SE 1/4, E 1/2 SW 1/4, NE 1/4 NW 1/4 Section 30; Section 31 except NW 1/4, NW 1/4 NE 1/4, NW 1/4 SW 1/4; Section 32; W 1/2 Section 33; SE 1/4, SE 1/4 NE 1/4 Section 34; Section 35 except N 1/2 NW 1/4, NW 1/4 NE 1/4; Section 36.

T.17S., R.12W. Willamette Meridian: Section 1; Section 2 except W 1/2 NW 1/4; SE 1/4, NE 1/4 SW 1/4 Section 3; NE 1/4, NE 1/4 SE 1/4 Section 10; N 1/2 Section 11; Section 12 except S 1/2 SW 1/4, NW 1/4 SW 1/4; E 1/2 Section 13; E 1/2 NE 1/4, E 1/2 SE 1/4, NW 1/4 SE 1/4 Section 24.

T.18S., R.09W. Willamette Meridian: W 1/2 NE 1/4, E 1/2 NW 1/4, NW 1/4 NW 1/4 Section 1; Section 2 except S 1/2 SE 1/4, NE 1/4 SE 1/4, SE 1/4 NE 1/4; Section 3; Section 4 except W 1/2 SW 1/4; N 1/2 NE 1/4 Section 5; N 1/2 NE 1/4, NE 1/4 SE 1/4, SE 1/4 NE 1/4 Section 7; Section 8 except S 1/2 S 1/2, N 1/2 NW 1/4; N 1/2 N 1/2, SW 1/4 NE 1/4 Section 9; E 1/2 NE 1/4, SW 1/4 NE 1/4 Section 10; NE 1/4 NW 1/4 Section 11.

T.18S., R.10W. Willamette Meridian: N 1/2 NE 1/4, SW 1/4 NE 1/4, NE 1/4 NW 1/4 Section 4; N 1/2 NE 1/4, NW 1/4, W 1/2 SW 1/4 Section 5; Section 6; N 1/2 NE 1/4 Section 7; NW 1/4 NW 1/4 Section 8.

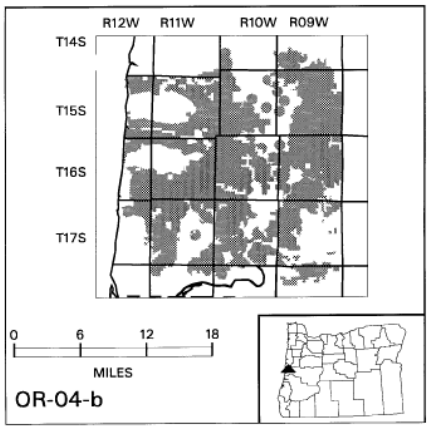
T.18S., R.11W. Willamette Meridian: Section 1 except SW 1/4 SW 1/4, SE 1/4 SE 1/4; N 1/2, NW 1/4 SE 1/4 Section 2; NE 1/4, N 1/2 SE 1/4, SE 1/4 SE 1/4 Section 3; NW 1/4 NW 1/4 Section 4; W 1/2 NW 1/4, NE 1/4 NE 1/4, NE 1/4 NW 1/4 Section 5; Section 6 except SW 1/4 SW 1/4.

Critical Habitat includes only State lands described within the following areas:

T.17., R.08W. Willamette Meridian: S 1/2 SE 1/4, NE 1/4 SE 1/4 Section 18; NE 1/4, NW 1/4 SE 1/4 Section 19.

T.17., R.09W. Willamette Meridian: N 1/2 SW 1/4, SW 1/4 NE 1/4, S 1/2 NW 1/4 Section 25; SE 1/4 NE 1/4, N 1/2 SE 1/4 Section 26; Section 32 except N 1/2 S 1/2, E 1/2 NE 1/4, SW 1/4 NW 1/4; S 1/2 NW 1/4, NE 1/4 NW 1/4, NW 1/4 NE 1/4, NE 1/4 SW 1/4, S 1/2 SW 1/4 Section 33.

T.18S., R.09W. Willamette Meridian: W 1/2 SW 1/4 Section 4; SE 1/4, S 1/2 NE 1/4, N 1/2 NW 1/4 Section 5; N 1/2 SE 1/4, SE 1/4 NE 1/4 Section 9.



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Map and description of OR–04–c taken from United States Fish and Wildlife Service 1:100,000 map; Reedsport, Eugene and Cottage Grove, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.18S., R.09W. Willamette Meridian: SE 1/4 Section 23; Section 25; S 1/2 SW 1/4, NW 1/4 SW 1/4, SW 1/4 SE 1/4 Section 26; Section 27 except N 1/2, NW 1/4 SW 1/4; S 1/2 SE 1/4 Section 28; S 1/2 Section 32; Section 33 except NW 1/4 NW 1/4; Sections 34–36.

T.18S., R.10W. Willamette Meridian: SE 1/4 SE 1/4 Section 8; Section 9 except NE 1/4 SE 1/4, N 1/2; NW 1/4 NW 1/4 Section 10; Section 15 except N1/2 NE 1/4, SE 1/4 NE 1/4; SW 1/4 SW 1/4 Section 16; Section 17 except NE1/4 NE 1/4; Section 18; Sections 19–20; E 1/2 NE 1/4, SW 1/4 NW 1/4 Section 21; Section 22 except E 1/2 NE 1/4, NW 1/4 NE 1/4, NE 1/4 SE 1/4; Section 23 except NE 1/4, N 1/2 NW 1/4, NW 1/4 SE 1/4; Section 25; Section 26; Section 27 except SE 1/4 SW 1/4, N 1/2 SW 1/4; W 1/2 W 1/2, E 1/2 E 1/2 Section 28; Section 29–32; Section 33 except E 1/2 W 1/2, NW 1/4 SW 1/4, SW 1/4 SE 1/4; Section 34 except SW 1/4, NE 1/4 NW 1/4, S 1/2 NW 1/4, NW 1/4 SE 1/4; Section 35 except NE 1/4 NW 1/4.

T.18S., R.11W. Willamette Meridian: S 1/2 S 1/2 Section 11; S 1/2 S 1/2 Section 12; Section 13; Section 14 except NW 1/4 NW 1/4; Section 22 except N 1/2 NW 1/4, SW 1/4 SW 1/4; Sections 23–26; E 1/2, E 1/2 NW 1/4 Section 27; S 1/2 SW 1/4, W 1/2 SE 1/4 Section 28; SE 1/4, NE 1/4 NE 1/4, S 1/2 NE 1/4 Section 29; NE 1/4 NE 1/4 Section 32; Section 33–36.

T.19S., R.09W. Willamette Meridian: Sections 1–2; Section 3 except S 1/2 SW 1/4, NW 1/4 SW 1/4; Section 4; Section 5 except NE 1/4 SW 1/4; Section 6 except N 1/2 NW 1/4, E 1/2 SE 1/4, S 1/2 SW 1/4; Section 7 except N 1/2 NE 1/4, SE 1/4 NE 1/4, W 1/2 SW 1/4; Sections 8–9; E 1/2 Section 11; E 1/2 NW 1/4, NE 1/4 Section 12; Section 13; Section 15; Section 17; Section 18 except W 1/2 SW 1/4; Sections 19–23; Section 24 except S 1/2 SE 1/4, NE 1/4 SE 1/4, SE 1/4 NE 1/4; Section 25; N1/2 N1/2, SW 1/4 NW 1/4, W 1/2 SW 1/4, S 1/2 SE 1/4 Section 26; Sections 27–33; N 1/2 NE 1/4, W 1/2 W 1/2 Section 34; Section 35; Section 36 except E 1/2 NW 1/4, W 1/2 NE 1/4, NE 1/4 SW 1/4.

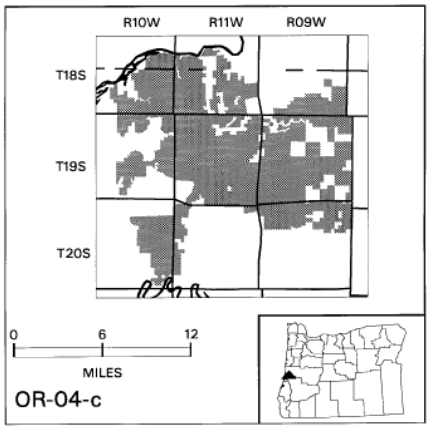
T.19S., R.10W. Willamette Meridian: Section 1; Section 2 except W 1/2 SE 1/4, SE 1/4 NE 1/4; Section 3; Section 4 except S 1/2 SE 1/4; Sections 5–8; Section 9 except E 1/2 NE 1/4; Section 10 except N 1/2 N 1/2, SW 1/4 NW 1/4, SE 1/4 NE 1/4; Section 11 except N 1/2 N 1/2, SW 1/4 NW 1/4; Section 12 except E 1/2 SE 1/4; Section 13 except S 1/2 SE 1/4, NE 1/4 SE 1/4; Sections 14–23; Section 24 except N 1/2 NE 1/4, NE 1/4 NW 1/4; Sections 25–26; Section 27 except SE 1/4 SE 1/4; Section 28; Section 29 except W 1/2 SW 1/4; N 1/2 Section 30; E 1/2 SE 1/4 Section 31; Section 32 except S 1/2 SE 1/4, SE 1/4 SW 1/4; Section 33–36.

T.19S., R.11W. Willamette Meridian: Section 1; N 1/2 N 1/2, W 1/2 SW 1/4, SW 1/4 NW 1/4 Section 2; Section 3 except SW 1/4 SW 1/4; Section 4; Section 9 except E 1/2 NE 1/4, S 1/2 SW 1/4, NW 1/4 SW 1/4, SE 1/4, SE 1/4 SE 1/4; Section 10 except S 1/2, W 1/2 NW 1/4; Section 12 except N 1/2 SW 1/4, SW 1/4 SW 1/4; Section 13; E 1/2 SE 1/4, SW 1/4 SE 1/4 Section 14; SW 1/4 SE 1/4, SW 1/4 Section 15; SE 1/4 SE 1/4 Section 16; Section 21 except N 1/2 NW 1/4; Section 22 except E 1/2 NE 1/4; Section 23 except S1/2 SW 1/4; Section 24; NE 1/4, N 1/2 NW 1/4 Section 25; NE 1/4 NE 1/4 Section 26; N 1/2, W 1/2 SW 1/4 Section 27; Section 28 except NE 1/4 SW 1/4; N 1/2 NE 1/4, SE 1/4 NW 1/4, SW 1/4 NE 1/4, NW 1/4 SE 1/4, NE 1/4 SW 1/4 Section 33.

T.20S., R.09W. Willamette Meridian: Section 1 except SE 1/4 SW 1/4; Section 2 except SW 1/4 SW 1/4; Section 3 except S 1/2 SE 1/4; Sections 4–6; Section 7 except W 1/2 W 1/2; Section 8; Section 9 except SE 1/4 SE 1/4; SE 1/4, S 1/2 NW 1/4 Section 10; Section 11 except NW 1/4 NW 1/4; Section 12 except NE 1/4 NW 1/4, NW 1/4 SW 1/4; N 1/2 NW 1/4, NW 1/4 NE 1/4 Section 13; NE 1/4 NW 1/4, N 1/2 NE 1/4 Section 14.

T.20S., R.10W. Willamette Meridian: N 1/2 Section 1; N 1/2 NW 1/4 Section 5; Section 6 except NW 1/4 NW 1/4; W 1/2, N 1/2 NE 1/4, NW 1/4 SE 1/4, S 1/2 SE 1/4 Section 7; Section 18 except SE 1/4 SW 1/4, E 1/2 SE 1/4; SW 1/4, NW 1/4 SE 1/4, W 1/2 NW 1/4, SE 1/4 NW 1/4, SW 1/4 NE 1/4 Section 19; W 1/2 Section 30.

T.20S., R.11W. Willamette Meridian: Section 10 except S 1/2 SW 1/4, NW 1/4 SW 1/4; Sections 11–14; E 1/2 Section 15; NE 1/4 Section 22; Section 23 except SW 1/4; Section 24–25; NE 1/4, E 1/2 SE 1/4 Section 26; N 1/2 SE 1/4, S 1/2 NE 1/4 Section 35; NW 1/4, N 1/2 NW 1/4, N 1/2 NE 1/4 Section 36.



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Map and description of OR–04-d taken from United States Fish and Wildlife Service 1:100,000 map; Reedsport and Cottage Grove, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.20S., R.10W. Willamette Meridian: S 1/2 Section 11; W 1/2 SW 1/4 Section 12; NW 1/4 SW 1/4 Section 13; NE 1/4, N 1/2 SE 1/4, N 1/2 NW 1/4 Section 14; SE 1/4 SE 1/4 Section 22; W 1/2, S 1/2 SE 1/4, NW 1/4 SE 1/4, W 1/2 NE 1/4 Section 23; SW 1/4 NW 1/4 Section 25; Section 26; Section 27 except W 1/2 W 1/2, E 1/2 SW 1/4; NE 1/4 Section 34; Section 35.

T.21S., R.09W. Willamette Meridian: S 1/2 SW 1/4, NE 1/4 SW 1/4 Section 2; Section 3 except NW 1/4 NE 1/4; E 1/2 E 1/2, NE 1/4 SW 1/4, SW 1/4 SW 1/4 Section 5; SE 1/4, SW 1/4 NE 1/4, E 1/2 SW 1/4, SE 1/4 NW 1/4 Section 6; Sections 7–8; Section 9 except S 1/2 NE 1/4; SW 1/4, SE 1/4 NW 1/4 Section 10; Section 11; Section 14 except E 1/2 E 1/2; Section 15; Sections 17–19; NW 1/4 Section 20; Section 21; W 1/2 NE 1/4 Section 22; Section 23; Section 29; Sections 31–33.

T.21S., R.10W. Willamette Meridian: Section 2–3; NE 1/4 NE 1/4 Section 4; SW 1/4, S 1/2 SE 1/4, S 1/2 NW 1/4 Section 6; Section 7; Section 8 except NE 1/4; W 1/2 SW 1/4 Section 9; N 1/2 E 1/2 Section 10; Sections 11–14; Section 15 except W 1/2 NW 1/4; NW 1/4 NW 1/4 Section 16; Sections 17–21; Section 22 except NW 1/4; Sections 23–35.

T.21S., R.11W. Willamette Meridian: SE 1/4 SE 1/4 Section 1; E 1/2 NE 1/4 Section 12; S 1/2 NE 1/4, S 1/2 SW 1/4, NW 1/4, S 1/2 SE 1/4, NE 1/4 SE 1/4 Section 23; Sections 24–25; Section 26 except N 1/2 NW 1/4; Section 27 except N 1/2 N 1/2; Section 28 except N 1/2 N 1/2, N 1/2 SW 1/4; NW 1/4, N 1/2 NE 1/4, SW 1/4 NE 1/4 Section 33; N 1/2, N 1/2 SE 1/4 Section 34; Section 35 except S 1/2 NW 1/4, SW 1/4, S 1/2 SE 1/4; Section 36 except SW 1/4 SW 1/4.

T.22S., R.09W. Willamette Meridian: NE 1/4 NE 1/4, N 1/2 NW 1/4, SW 1/4 NW 1/4, SW 1/4 Section 4; Section 5 except SW 1/4, S 1/2 NW 1/4; Section 6 except SE 1/4, S 1/2 NE 1/4; Section 7 except E 1/2 SE 1/4; Section 9 W 1/2 SW 1/4; NW 1/4 SW 1/4, NW 1/4 NW 1/4 Section 17.

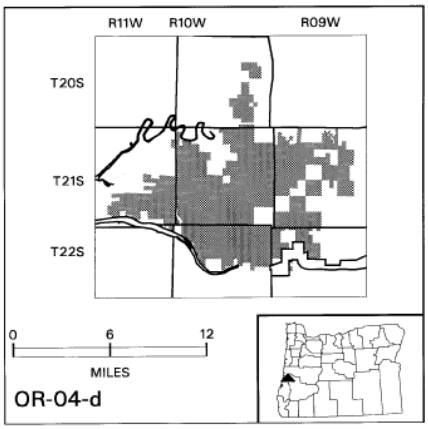
T.22S., R.10W. Willamette Meridian: Sections 1–5; E 1/2 Section 6; Section 8 except W 1/2 W 1/2; Sections 9–12; N 1/2 Section 13; N 1/2 N 1/2, SE 1/4 NE 1/4, SW 1/4 NW 1/4, NE 1/4 SE 1/4 Section 14; NW 1/4, W 1/2 NE 1/4, NW 1/4 SW 1/4 Section 15; NE 1/4 Section 17.

T.22S., R.11W. Willamette Meridian: NE 1/4 Section 1.

Description of Lands Using Protracted Public Land Survey Lines

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.22S., R.11W. Willamette Meridian: SE 1/4 NE 1/4 Section 1.



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Map and description of OR–04-e taken from United States Fish and Wildlife Service 1:100,000 map; Cottage Grove and Roseburg, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.23S., R.08W. Willamette Meridian: Section 3 except NW 1/4 NW 1/4; Section 5; S 1/2, SE 1/4 NE 1/4, SW 1/4 NW 1/4 Section 6; Section 7; Section 9; NW 1/4, S 1/2 S 1/2, NW 1/4 SW 1/4 Section 11; Section 13 except N 1/2 NE 1/4; Section 14 except N 1/2 NE 1/4, NE 1/4 NW 1/4, W 1/2 SW 1/4, SE 1/4 SW 1/4, S 1/2 SE 1/4; Section 15; Section 17–19; Section 20 except N 1/2 NE 1/4, SE 1/4 NE 1/4, NE 1/4 SE 1/4; Section 21; Section 23 except S 1/2 NE 1/4, SW 1/4 NW 1/4; Section 27; Section 28 except N 1/2 NE 1/4, SE 1/4 NE 1/4, NE 1/4 NW 1/4; Sections 29–33; Section 35 except E 1/2 NE 1/4.

T.23S., R.09W. Willamette Meridian: Section 3 except NE 1/4; Sections 7–8; Section 13 except NE 1/4 SW 1/4, NW 1/4 SE 1/4; Sections 14–17; Section 20 except S 1/2 N 1/2; Sections 21–22; N 1/2 Section 23; Sections 24–25; Section 26 except NW 1/4; Section 27; Section 28 except E 1/2 SE 1/4; Section 29.

T.23S., R.10W. Willamette Meridian: Section 1.

T.24S., R.07W. Willamette Meridian: SE 1/4 NW 1/4 Section 6; Section 7; E 1/2 Section 18; Section 19 except E 1/2 E 1/2, SW 1/4 SE 1/4.

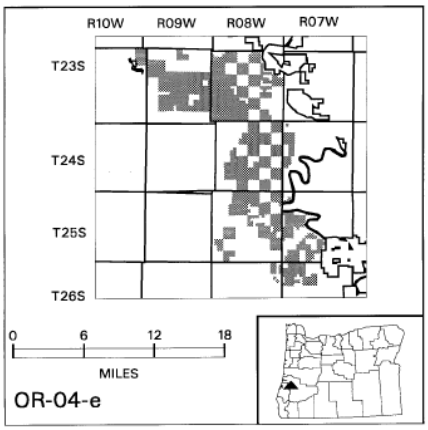
T.24S., R.08W. Willamette Meridian: Section 1; Section 3; E 1/2, E 1/2 SW 1/4 Section 9; Sections 10–11; Section 13; Section 15; SW 1/4 NE 1/4, SE 1/4 Section 17; Section 20 except NW 1/4; Section 21; SE 1/4 Section 22; Section 23; Section 25; Sections 27–29; Section 33; Section 35.

T.25S., R.07W. Willamette Meridian: S 1/2 S 1/2, NW 1/4 SE 1/4 Section 6; S 1/2 S 1/2 Section 7; S 1/2 SW 1/4 Section 9; NW 1/4 NW 1/4 Section 15; Section 17; Section 18 except W 1/2 W 1/2; Section 19; NE 1/4 NW 1/4 Section 20; S 1/2 S 1/2, NW 1/4 SE 1/4 NE 1/4 SW 1/4 Section 21; Section 27 except NE 1/4 NE 1/4, E 1/2 SE 1/4; SW 1/4 Section 28; SE 1/4, S 1/2 NE 1/4, NE 1/4 NE 1/4, E 1/2 SW 1/4 Section 29; NW 1/4 NW 1/4 Section 30; E 1/2, E 1/2 SW 1/4 Section 31; W 1/2 Section 32; W 1/2, W 1/2 NE 1/4, NE 1/4 NE 1/4, NW 1/4 SE 1/4 Section 33; NW 1/4 NW 1/4 Section 34.

T.25S., R.08W. Willamette Meridian: Section 1; Sections 3–4; E 1/2 E 1/2 Section 5; Section 8 except W 1/2; Section 9; N 1/2 NE 1/4, NE 1/4 NW 1/4, NW 1/4 SW 1/4 Section 10; Section 11; NE 1/4 NE 1/4 Section 12; Section 13; S 1/2 SW 1/4, NE 1/4 NW 1/4 Section 14; N 1/2 N 1/2, SW 1/4, SW 1/4 NW 1/4, SE 1/4 SE 1/4 Section 15; Section 20; Section 23; Section 24 except SE 1/4, W 1/2 NW 1/4; Section 25; Section 30 except SW 1/4, W 1/2 NW 1/4; Section 32 except SE 1/4.

T.26S., R.07W. Willamette Meridian: Section 5; Section 6 except NW 1/4; Section 7 except NW 1/4 SW 1/4, SW 1/4 NW 1/4; N 1/2 NE 1/4, SE 1/4 NE 1/4, E 1/2 SE 1/4, N 1/2 SW 1/4, NW 1/4 NW 1/4 Section 8; Section 9 except N 1/2 NW 1/4.

T.26S., R.08W. Willamette Meridian: W 1/2, E 1/2 SE 1/4, SE 1/4 NE 1/4 Section 1; NW 1/4 SE 1/4, SE 1/4 NW 1/4 Section 12.



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Map and description of OR–04–f taken from United States Fish and Wildlife Service 1:100,000 map; Cottage Grove and Roseburg, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

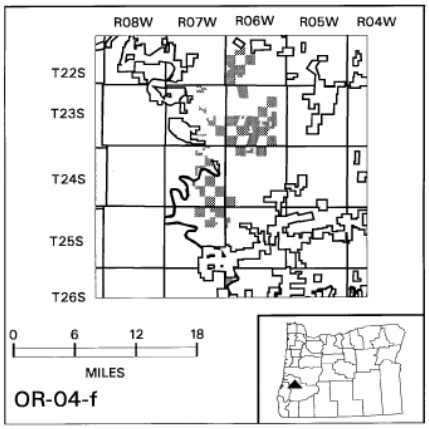
T.22S., R.06W. Willamette Meridian: S 1/2, S 1/2 NE 1/4 Section 17; Section 19; Section 21; Section 29; Section 30 except W 1/2 NW 1/4, SE 1/4 NW 1/4, NW 1/4 SW 1/4; Section 31; NW 1/4 NE 1/4, NE 1/4 NW 1/4 Section 32.

T.23S., R.06W. Willamette Meridian: W 1/2 W 1/2 Section 4; Section 5; N 1/2 NE 1/4, NE 1/4 NW 1/4 Section 8; NW 1/4 NW 1/4 Section 9; Section 19; Section 31; W 1/2 NW 1/4, NW 1/4 SW 1/4 Section 32.

T.23S., R.07W. Willamette Meridian: N 1/2 NW 1/4, S 1/2 NE 1/4, N 1/2 SW 1/4, NW 1/4 SE 1/4 Section 3; NE 1/4 NE 1/4 Section 4; SE 1/4 SE 1/4 Section 14; E 1/2 NW 1/4, S 1/2 NE 1/4, NE 1/4 SE 1/4 Section 15; Section 23 except N 1/2 NW 1/4, SE 1/4 NW 1/4, W 1/2 NE 1/4, SW 1/4 SW 1/4; Section 25; S 1/2 S 1/2 Section 27; S 1/2 S 1/2 Section 33.

T.24S., R.07W. Willamette Meridian: N 1/2 NW 1/4 Section 2; S 1/2 SW 1/4, NW 1/4 SW 1/4, SW 1/4 SE 1/4, SE 1/4 NE 1/4 Section 3; Section 11 except NE 1/4, NE 1/4 NW 1/4; N 1/2 N 1/2, W 1/2 SW 1/4, SW 1/4 NW 1/4 Section 15; E 1/2 SE 1/4, SE 1/4 NE 1/4, SW 1/4 SW 1/4 Section 21; Section 23; Section 25; Section 27 except SW 1/4, S 1/2 NW 1/4; SE 1/4 SW 1/4, NW 1/4 SW 1/4, SW 1/4 NW 1/4 Section 28; Section 35.

T.25S., R.07W. Willamette Meridian: Section 1; NE 1/4 Section 2; Section 3; Section 11 except N 1/2 NW 1/4; NW 1/4 SW 1/4 Section 12.



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Map and description of OR–04–g taken from United States Fish and Wildlife Service 1:100,000 map; Cottage Grove, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.21S., R.06W. Willamette Meridian: Section 31.

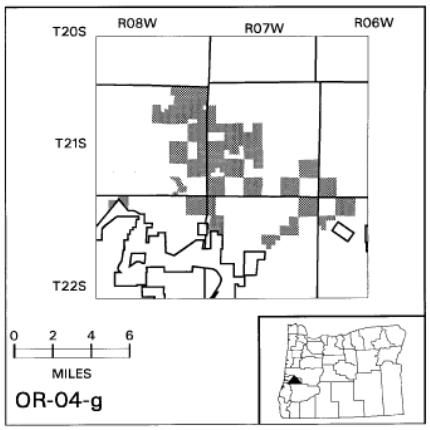
T.21S., R.07W. Willamette Meridian: W 1/2 Section 7; Section 16 except NW 1/4; Section 17; N 1/2 Section 18; Section 19; NW 1/4, N 1/2 NE 1/4, SW 1/4 NE 1/4, NE 1/4 SW 1/4, NW 1/4 SE 1/4 Section 20; Section 21; Section 25; NE 1/4 Section 28; Section 29; N 1/2, N 1/2 SW 1/4, SW 1/4 SW 1/4, NE 1/4 SE 1/4 Section 30; Section 31; Section 33; Section 35.

T.21S., R.08W. Willamette Meridian: Section 1; Section 2 except W 1/2 SW 1/4; Section 10 except N 1/2 NE 1/4; Section 11; Section 12 except S 1/2 SW 1/4, NE 1/4 NE 1/4; Section 13; Section 23; E 1/2 Section 24; Section 25; N 1/2 N 1/2 Section 26; Section 35 except SW 1/4 NW 1/4, E 1/2 NE 1/4, SE 1/4 SE 1/4, NW 1/4 SW 1/4.

T.22S., R.06W. Willamette Meridian: Section 5; NW 1/4, N 1/2 NE 1/4, N 1/2 SW 1/4 Section 7.

T.22S., R.07W. Willamette Meridian: Section 1; W 1/2 Section 6; Section 7 except W 1/2 NW 1/4; Section 11 except NW 1/4; NW 1/4, N 1/2 NE 1/4, SW 1/4 NE 1/4, NE 1/4 SW 1/4 Section 15.

T.22S., R.08W. Willamette Meridian: Section 1; NE 1/4, S 1/2 NW 1/4, N 1/2 SW 1/4, SW 1/4 SW 1/4 Section 5; NE 1/4 SE 1/4 Section 12.



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Map and description of OR–04–i taken from United States Fish and Wildlife Service 1:100,000 map; Eugene and Cottage Grove, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.17S., R.06W. Willamette Meridian: SE 1/4 SE 1/4 Section 35; SW 1/4 SW 1/4 Section 36.

T.17S., R.07W. Willamette Meridian: Section 11; S 1/2, SW 1/4 NW 1/4 Section 13; Section 15; NW 1/4, S 1/2 S 1/2, NW 1/4 NE 1/4 Section 19; SE 1/4 Section 25; Section 29 except E 1/2 W 1/2, W 1/2 NE 1/4.

T.17S., R.08W. Willamette Meridian: Section 13 except N 1/2 NW 1/4; Section 17 except SW 1/4, NE1/ 4 NE 1/4, NW 1/4 NW 1/4; Section 21; S 1/2 SW 1/4, NW 1/4 NW 1/4 Section 22; Section 23; Section 25; Section 27; NE 1/4 SW 1/4 Section 28; E 1/2 E 1/2 Section 33; Section 35.

T.18S., R.06W. Willamette Meridian: Section 5 except SW 1/4 SW 1/4; SE 1/4 Section 11; Section 19; Section 21 except E 1/2 SE 1/4, SE 1/4 NE 1/4; SW 1/4 Section 23; Section 27 except S 1/2 NE 1/4; Section 31; NE 1/4, W 1/2 SE 1/4, E 1/2 SW 1/4 Section 35.

T.18S., R.07W. Willamette Meridian: Section 1; N 1/2 Section 7; Section 17 except SE 1/4 SW 1/4, NW 1/4 SW 1/4; Section 19; Section 21; Section 25; Section 27; Section 29; Section 31; Section 33 except NE 1/4 SW 1/4, NW 1/4 SE 1/4; Section 35.

T.18S., R.08W. Willamette Meridian: E 1/2 NW 1/4, NW 1/4 NE 1/4 Section 1; E 1/2 NE 1/4 Section 2; Section 3; Section 4 except NE 1/4, NW 1/4 NW 1/4, N 1/2 SE 1/4, SE 1/4 SE 1/4; Section 9; Section 11 except E 1/2 SE 1/4, SW 1/4 SE 1/4, SE 1/4 SW 1/4; Section 13 except N 1/2 NE 1/4, E 1/2 NW 1/4, W 1/2 SW 1/4; N 1/2 N 1/2, S 1/2 SW 1/4, NE 1/4 SE 1/4, SE 1/4 NE 1/4, SW 1/4 NW 1/4 Section 15; Section 19; Section 21 except E 1/2 NW 1/4, NW 1/4 SE 1/4; S 1/2, SE 1/4 NE 1/4, SW 1/4 NW 1/4 Section 23; Section 25; Section 27; SE 1/4 Section 28; Section 29 except E 1/2 NE 1/4; Section 31; NW 1/4 NE 1/4 Section 32; Section 33 except NE 1/4; Section 35 except S 1/2 SW 1/4, SW 1/4 SE 1/4.

T.19S., R.06W. Willamette Meridian: Section 1 except N 1/2 NW 1/4, SW 1/4 NW 1/4; Section 3; Section 5; Section 7 except N 1/2 NE 1/4; NW 1/4 SW 1/4, W 1/2 NW 1/4 Section 8; E 1/2, S 1/2 SW 1/4, SE 1/4 NW 1/4 Section 15; Section 17 except NE 1/4 NE 1/4, SW 1/4 NW 1/4; Section 19 except SE 1/4 SE 1/4; E 1/2 NW 1/4, SW 1/4 NE 1/4 Section 20; Section 21; Section 23; Section 25; Section 27; Section 29; Section 31; Section 33; SE 1/4 NE 1/4 Section 34; Section 35.

T.19S., R.07W. Willamette Meridian: Section 1 except S 1/2 SE 1/4, SE 1/4 SW 1/4; Section 3 except SW 1/4 SE 1/4, SW 1/4 SW 1/4; S 1/2, E 1/2 NE 1/4, NW 1/4 NW 1/4 Section 5; Section 7; Section 9 except N 1/2 NW 1/4, SW 1/4 NW 1/4; Section 11 except N 1/2 N 1/2, SE 1/4 NW 1/4, SW 1/4 NE 1/4; Section 13; Section 15; Section 17; Section 19 except N 1/2 SW 1/4; Section 21; Section 23; N 1/2 NE 1/4, S 1/2 SE 1/4 Section 25; Section 27; Section 29; S 1/2, W 1/2 NW 1/4 Section 30; Section 31; W 1/2 NW 1/4 Section 32; Section 33; Section 35 except NW 1/4 NE 1/4.

T.19S., R.08W. Willamette Meridian: Section 1; Section 5; N 1/2 NW 1/4 Section 6; Section 7; SW 1/4, W 1/2 SE 1/4 Section 8; W 1/2 Section 9; NE 1/4, E 1/2 NW 1/4, NW 1/4 NW 1/4, NE 1/4 SE 1/4 Section 13; Section 17; N 1/2 S 1/2, SE 1/4 NE 1/4, NW 1/4 NW 1/4 Section 18; Section 19; Section 21; SE 1/4 SE 1/4 Section 22; Section 23; SE 1/4 SE 1/4 Section 24; Section 25; NW 1/4 Section 26; Section 27; SE 1/4 SE 1/4 Section 28; Section 29; SE 1/4, SW 1/4 SW 1/4 Section 30; Section 31; W 1/2 W 1/2 Section 32; Section 33; Section 35.

T.20S., R.06W. Willamette Meridian: Section 1 except S 1/2 SW 1/4; Section 3 except E 1/2 SW 1/4, SW 1/4 SW 1/4; SE 1/4 NE 1/4 Section 4; Section 5; S 1/2 S 1/2 Section 6; Section 7; Section 9; Section 11 except W 1/2 NW 1/4, NW 1/4 SW 1/4, SE 1/4 NE 1/4; Section 13; Section 15; Section 17; W 1/2 W 1/2, E 1/2 SE 1/4 Section 18; Section 19; Section 21; Section 23; N 1/2 SE 1/4, SW 1/4 SE 1/4 Section 26; Section 27; Section 29; Section 31; E 1/2 NE 1/4 Section 32; SE 1/4, NW 1/4, NW 1/4 NE 1/4, S 1/2 NE 1/4, SE 1/4 SW 1/4 Section 33; Section 35 except S 1/2 SW 1/4.

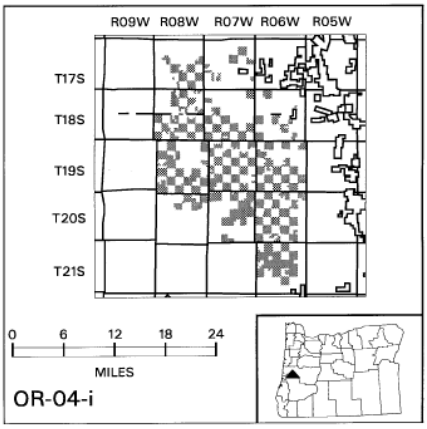
T.20S., R.07W. Willamette Meridian: Section 1; E 1/2 E 1/2 Section 2; Section 3 except NE 1/4 NW 1/4; Section 5; Section 6 except N 1/2 N 1/2; N 1/2 N 1/2 Section 7; Section 11; Section 12 except E 1/2 E 1/2, NW 1/4 SE 1/4, SW 1/4 NE 1/4; Section 13–15; Section 21; Section 22 except SE 1/4, SE 1/4 NE 1/4; Section 23 except W 1/2 SW 1/4, SW 1/4 NW 1/4; Section 33 except E 1/2 NE 1/4; SW 1/4 Section 34.

T.20S. R.08W. Willamette Meridian: Section 1; SW 1/4 Section 2; Section 3; SE 1/4 SE 1/4 Section 4; N 1/2 NE 1/4 Section 6; E 1/2 E 1/2 Section 8; Section 9; Section 11; W 1/2 W 1/2 Section 12.

T.21S., R.06W. Willamette Meridian: Section 3; Section 5; W 1/2 SW 1/4, SW 1/4 NW 1/4, SE 1/4 SW 1/4 Section 6; Section 7; Section 8 except SE 1/4; Section 9; Section 11; Section 14 except NE 1/4; Sections 15–17; Section 18 except NW 1/4 NW 1/4, S 1/2 NW 1/4, NE 1/4, NW 1/4 SE 1/4, E 1/2 SW 1/4, SW 1/4 SW 1/4; Section 19; NW 1/4 NE 1/4 Section 20; Section 21; S 1/2 NE 1/4, N 1/2 SE 1/4 Section 22; Section 23; Section 27.

Critical Habitat includes only State lands described within the following areas:

T.17S., R.08W. Willamette Meridian: SE 1/4 NW 1/4 Section 28.



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Map and description of OR–04–j objective taken from United States Fish and Wildlife Service 1:100,000 map; Eugene, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.13S., R.06W. Willamette Meridian: S 1/2 Section 31.

T.14S., R.06W. Willamette Meridian: NW 1/4, W 1/2 SW 1/4 Section 6; Section 7; W 1/2 W 1/2 Section 18; W 1/2 W 1/2 Section 19; W 1/2 W 1/2 Section 30; Section 31.

T.14S., R.07W. Willamette Meridian: Section 1; Section 9; Section 11 except E 1/2 SE 1/4; Section 12 except S 1/2 SW 1/4; Section 13 except SW 1/4, SW 1/4 SE 1/4; SE 1/4 SW 1/4 Section 14; Section 17; Section 19; Section 20 except NW 1/4 NW 1/4, E 1/2 NW 1/4, NE 1/4, E 1/2 SE 1/4; Section 21 except W 1/2 NW 1/4, NE 1/4 NW 1/4; Section 23 except SW 1/4 SE 1/4; S 1/2 SE 1/4, NE 1/4 SE 1/4, SE 1/4 NE 1/4 Section 24; Section 25; Section 26 except N 1/2 N 1/2, SE 1/4 SW 1/4; Section 27; S 1/2 Section 28; Sections 29–34.

T.14S., R.08W. Willamette Meridian: Section 19 except N 1/2 N 1/2, SW 1/4 NE 1/4, NW 1/4 SE 1/4; E 1/2

SE 1/4 Section 20; S 1/2 SE 1/4, SW 1/4 Section 21; S 1/2 SW 1/4, W 1/2 SE 1/4 Section 22; S 1/2 SW 1/4 Section 23; E 1/2 SE 1/4, NE 1/4 Section 25; NW 1/4 Section 26; Section 27; E 1/2 SW 1/4 Section 28; Section 29 except N 1/2 N 1/2; Section 30 except N 1/2 NE 1/4, SE 1/4 NE 1/4, SE 1/4, NE 1/4 NW 1/4; Section 31 except N 1/2 S 1/2; Section 32; Section 33 except S 1/2 S 1/2; NW 1/4, N 1/2 NE 1/4, NW 1/4 SW 1/4 Section 34.

T.15S., R.06W. Willamette Meridian: Section 29; Section 31; Section 33 except NE 1/4, E 1/2 SE 1/4, SW 1/4 NW 1/4; SE 1/4 SE 1/4 Section 34; SW 1/4 SW 1/4 Section 35.

T.15S., R.07W. Willamette Meridian: Section 3 except SW 1/4 SW 1/4; Section 4 except E 1/2 NE 1/4, N 1/2 SE 1/4; Sections 5–6; Section 7 except S 1/2 SW 1/4, N 1/2 SE 1/4; NW 1/4 NE 1/4 Section 8; Sections 18–21; Section 25 except SE 1/4 NE 1/4; Section 27; Section 29; Section 31; Section 33 except NE 1/4; SE 1/4 NW 1/4, SE 1/4 NE 1/4, NE 1/4 SE 1/4, SW 1/4 SE 1/4 Section 35.

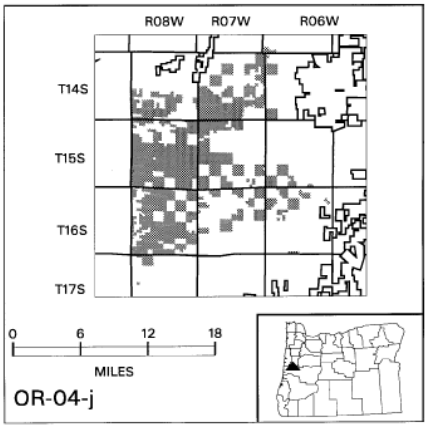
T.15S., R.08W. Willamette Meridian: Section 1; S 1/2, NE 1/4 NE 1/4 Section 2; S 1/2 SE 1/4 Section 3; SW 1/4 SW 1/4 Section 4; Section 5 except S 1/2 NE 1/4, SE 1/4 NW 1/4, SW 1/4, N 1/2 SE 1/4; Section 6 except SE 1/4 NW 1/4, S 1/2 SW 1/4, SW 1/4 NE 1/4, SE 1/4; Section 7 except N 1/2 N 1/2, SE 1/4 NE 1/4; Section 9 except E 1/2 E 1/2, SW 1/4 SE 1/4; Section 11; Sections 13–14; Section 15 except NW 1/4 NW 1/4; Sections 16–20; Section 21 except SW 1/4 NW 1/4; Sections 22–27; N 1/2 Section 28; Sections 29–31; N 1/2, W 1/2 SW 1/4 Section 32; Section 33; Section 35; W 1/2 Section 36.

T.16S., R.06W. Willamette Meridian: SE 1/4, E 1/2 SW 1/4, NW 1/4 SW 1/4, SW 1/4 NW 1/4 Section 3; Section 5 except S 1/2 SW 1/4, NW 1/4 SW 1/4, SW 1/4 NW 1/4; Section 7 except S 1/2 SE 1/4, NE 1/4 SE 1/4; Section 9; SW 1/4 NE 1/4, NE 1/4 NW 1/4 Section 12; NW 1/4, N 1/2 NE 1/4, W 1/2 SE 1/4, SW 1/4 SW 1/4 Section 17; S 1/2 S 1/2 Section 33.

T.16S., R.07W. Willamette Meridian: Section 1; Section 3 except S 1/2 SW 1/4; Section 5 except W 1/2 SW 1/4; S 1/2 SW 1/4 Section 6; Section 7 except NE 1/4, S 1/2 NW 1/4, NE 1/4 SE 1/4; NE 1/4, N 1/2 SE 1/4, SE 1/4 NW 1/4 Section 11; Section 13; E 1/2, SW 1/4 Section 15; W 1/2 NW 1/4 Section 18; S 1/2 Section 19; Section 21.

T.16S., R.08W. Willamette Meridian: Section 1; Sections 3–4; Section 5 except S 1/2 NW 1/4, SW 1/4 NE 1/4, NW 1/4 SW 1/4; NW 1/4, N 1/2 SW 1/4, SW 1/4 SW 1/4, NW 1/4 NE 1/4 Section 6; Section 7 except W 1/2, S 1/2 NE 1/4, N 1/2 SE 1/4; Sections 8–9; W 1/2 W 1/2 Section 10; Section 11; Section 13 except S 1/2 SE 1/4; Section 15; Section 17 except SW 1/4 NW 1/4; Section 18 except NW 1/4, W 1/2 E 1/2, NE 1/4 NE 1/4, SE 1/4 SW 1/4; Section 19 except E 1/2 SW 1/4, S 1/2 NE 1/4, NW 1/4 NE 1/4, SE 1/4 NW 1/4; Section 20 except W 1/2 SE 1/4, S 1/2 SW 1/4; Sections 21–23; SW 1/4 SW 1/4, SW 1/4 SE 1/4 Section 24; Section 25; N 1/2 Section 26; Section 27; Section 28 except S 1/2 SE 1/4; Section 29 except NW 1/4 NW 1/4; S 1/2 SE 1/4, SE 1/4 NE 1/4 Section 30; Section 31 except N 1/2 NW 1/4; Section 32 except SE 1/4, Section 33; S 1/2 Section 34; N 1/2, NW 1/4 SE 1/4 Section 35.

T.17S., R.08W. Willamette Meridian: Section 5; N 1/2 NE 1/4 Section 6.



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Map and description of OR–04–k taken from United States Fish and Wildlife Service 1:100,000 map; Corvallis, Eugene, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.12S., R.07W. Willamette Meridian: SE 1/4, S 1/2 SW 1/4, S 1/2 NE 1/4 Section 10; Section 11 except N 1/2 N 1/2; W 1/2 W 1/2 Section 13; Sections 14–15; Section 16 except NW 1/4 NW 1/4; Section 19 except N 1/2 N 1/2; Section 20 except SW 1/4 SW 1/4; Sections 21–23; W 1/2, S 1/2 SE 1/4 Section 24; Section 25; Section 26 except SW 1/4; Section 27; Section 28 except NE 1/4 NW 1/4; Sections 29–31; Section 32 except NW 1/4, NW 1/4 NE 1/4; Sections 33–35; W 1/2 W 1/2, NE 1/4 NW 1/4 Section 36.

T.12S., R.08W. Willamette Meridian: SW 1/4, SW 1/4 NW 1/4, S 1/2 SE 1/4 Section 3; NE 1/4, N 1/2 SW 1/4, S 1/2 SE 1/4 Section 5; N 1/2 SE 1/4 Section 8; Section 9 except NE 1/4 NE 1/4, W 1/2 SW 1/4, SE 1/4 SW 1/4, W 1/2 SE 1/4; SE 1/4, NE 1/4 NE 1/4 Section 10; Section 11 except N 1/2 NE 1/4, SE 1/4 SE 1/4; S 1/2 Section 12; E 1/2, E 1/2 SW 1/4 Section 13; N 1/2 NW 1/4, NE 1/4, SE 1/4 SW 1/4 Section 15; N 1/2 NE 1/4 Section 16; Section 17 except NW 1/4, NW 1/4 NE 1/4; SW 1/4, W 1/2 SE 1/4, SW 1/4 NW 1/4 Section 18; W 1/2, SW 1/4 SE 1/4 Section 19; S 1/2 NE 1/4 Section 20; Section 21; Section 22 except NW 1/4 NW 1/4; SE 1/4, S 1/2 SW 1/4 Section 23; W 1/2 W 1/2 Section 24; Section 25; N 1/2 Section 26; Section 27; Section 29 except NE 1/4; W 1/2 SW 1/4, N 1/2 NW 1/4, NW 1/4 NE 1/4, NE 1/4 SE 1/4 Section 30; Section 31; Section 33 except SE 1/4, W 1/2 NE 1/4; Section 35 except SW 1/4 NW 1/4, NW 1/4 SW 1/4.

T.12S., R.09W. Willamette Meridian: SE 1/4 SE 1/4 Section 13; E 1/2 E 1/2 Section 24.

T.13S., R.07W. Willamette Meridian: Section 2 except N 1/2 NE 1/4, NE 1/4 NW 1/4, SE 1/4 NE 1/4, NE 1/4 SE 1/4; Section 3; Section 5; W 1/2 Section 6; Section 7; Section 9; N 1/2 NW 1/4, SW 1/4 NW 1/4 Section 15; Section 17; SW 1/4 SW 1/4 Section 18; Section 19 except NE 1/4 SE 1/4; E 1/2 NW 1/4, NE 1/4 SW 1/4, W 1/2 NE 1/4 Section 21; S 1/2 SE 1/4 Section 23; SW 1/4, W 1/2 SE 1/4, SW 1/4 NW 1/4 Section

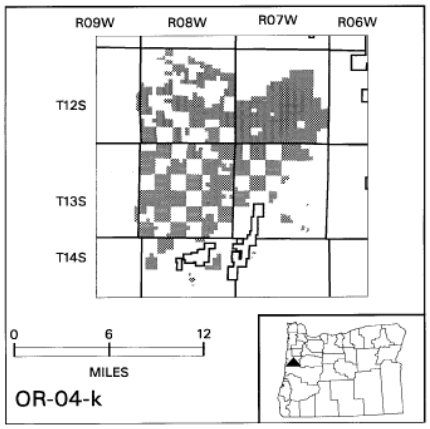
27; N 1/2 SE 1/4, SE 1/4 NE 1/4, NW 1/4 NE 1/4, E 1/2 NW 1/4 Section 35.

T.13S., R.08W. Willamette Meridian: Section 1; NE 1/4 Section 2; Section 3 except N 1/2 NE 1/4, SW 1/4 NE 1/4; Section 5; S 1/2 Section 6; Section 7; E 1/2 SE 1/4 Section 8; Section 9 except NW 1/4 NE 1/4; Section 11; W 1/2 NW 1/4, SE 1/4 NW 1/4, E 1/2 SE 1/4, NW 1/4 SE 1/4, SE 1/4 NE 1/4, NE 1/4 SW 1/4 Section 12; Section 13; E 1/2, NE 1/4 SW 1/4 Section 14; Section 15; Section 17; Sections 19–21; Section 23; W 1/2 W 1/2, SE 1/4 NW 1/4, SE 1/4 NE 1/4 Section 24; Section 25; W 1/2 SE 1/4, E 1/2 SW 1/4, SW 1/4 SW 1/4 Section 26; Section 27; Section 29; NW 1/4, SW 1/4 SE 1/4 Section 30; Section 31; SE 1/4 SE 1/4, SW 1/4 NW 1/4 Section 32; Section 33; SW 1/4 NW 1/4 Section 34; Section 35 except E 1/2 SE 1/4, SW 1/4 SE 1/4.

T.13S., R.09W. Willamette Meridian: E 1/2 E 1/2 Section 25.

T.14S., R.07W. Willamette Meridian: SW 1/4 SW 1/4 Section 5; NE 1/4 NE 1/4 Section 7.

T.14S., R.08W. Willamette Meridian: N 1/2 NE 1/4, NE 1/4 NW 1/4 Section 3; Section 5 except S 1/2 SE 1/4; Section 7 except W 1/2 W 1/2, NE 1/4 NW 1/4, NE 1/4 NE 1/4; Section 11 except NW 1/4, NW 1/4 NE 1/4, N 1/2 SW 1/4; N 1/2 SW 1/4, W 1/2 NW 1/4 Section 15.



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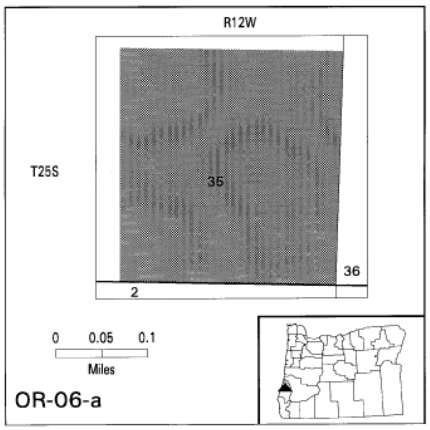
Map and description of OR–06–a taken from United States Fish and Wildlife Service 1:100,000 map; Coos Bay, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.25S., R.12W. Willamette Meridian: SE 1/4 SE 1/4 Section 35.



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Map and description of OR–06–b taken from United States Fish and Wildlife Service 1:100,000 map; Roseburg, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.25S., R.10W. Willamette Meridian: Section 31; Section 33.

T.26S., R.09W. Willamette Meridian: SE 1/4, E 1/2 SW 1/4 Section 9; Section 10 except NE 1/4; Section 17; S 1/2 S 1/2 Section 18; Section 19; SW 1/4 Section 20; Section 21; N 1/2 N 1/2, S 1/2 S 1/2 Section 28; Section 29; Section 31 except N 1/2 SW 1/4, SW 1/4 SW 1/4; SW 1/4, W 1/2 SE 1/4, SE 1/4 NW 1/4 Section 32; Section 33.

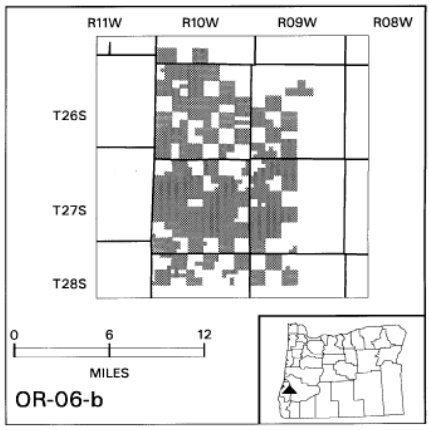
T.26S., R.10W. Willamette Meridian: Sections 3–5; E 1/2, SE 1/4 NW 1/4 Section 6; Section 7; SW 1/4, S 1/2 NE 1/4 Section 8; Section 9; Section 11; Section 13; N 1/2 Section 14; Sections 15–17; Section 19; SE 1/4 Section 20; N 1/2 Section 21; W 1/2 Section 22; Section 23; N 1/2 N 1/2, N 1/2 S 1/2 Section 24; Section 25; Section 27; NE 1/4 Section 28; Sections 29–31; E 1/2 Section 32; Section 33; Section 35 except SE 1/4.

T.27S., R.09W. Willamette Meridian: Sections 4–5; SE 1/4, NE 1/4 NE 1/4, SE 1/4 SW 1/4 Section 6; Section 7 except NW 1/4 SW 1/4; N 1/2 NW 1/4, W 1/2 SW 1/4 Section 8; Section 9; Section 17; Section 18 except SW 1/4, SE 1/4 SE 1/4; Sections 19–21; Sections 29–31; E 1/2 SE 1/4, SW 1/4 SE 1/4 Section 33.

T.27S., R.10W. Willamette Meridian: E 1/2 E 1/2, W 1/2 SE 1/4 Section 1; Section 3; W 1/2 SW 1/4, SW 1/4 NW 1/4 Section 4; Section 5; S 1/2 SE 1/4 Section 6; Sections 7–9; NE 1/4, SE 1/4 SE 1/4 Section 10; Section 11; S 1/2 NW 1/4, W 1/2 SW 1/4, SE 1/4 SE 1/4 Section 12; Sections 13–15; N 1/2 Section 16; Sections 17–20; Sections 21–23; W 1/2 NW 1/4, NW 1/4 SW 1/4 Section 24; Sections 25–29; NE 1/4, SW 1/4 SW 1/4 Section 30; Section 31; W 1/2 W 1/2, SE 1/4 NW 1/4, NE 1/4 SW 1/4 Section 32; Section 33; SW 1/4 NW 1/4 Section 34; Section 35.

T.28S., R.09W. Willamette Meridian: SE 1/4 SW 1/4 Section 4; Section 5; Section 7; Section 9.

T.28S., R.10W. Willamette Meridian: Section 1; Section 3 except E 1/2 SE 1/4; N 1/2 SE 1/4 Section 4; Section 5; N 1/2 NE 1/4, NE 1/4 NW 1/4, SE 1/4 SE 1/4 Section 6; Section 7 except W 1/2 NW 1/4, NW 1/4 SW 1/4; S 1/2 N 1/2, NE 1/4 NW 1/4 Section 8; Section 9 except NE 1/4; N 1/2 NE 1/4, E 1/2 NW 1/4, E 1/2 SE 1/4 Section 11; NW 1/4 NW 1/4 Section 12.



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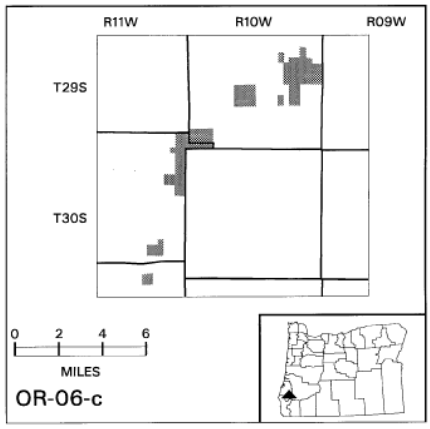
Map and description of OR–06–c taken from United States Fish and Wildlife Service 1:100,000 map; Roseburg and Canyonville, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.29S., R.10W. Willamette Meridian: S 1/2 SE 1/4, W 1/2 SW 1/4 Section 11; SW 1/4 NW 1/4, W 1/2 SW 1/4, SE 1/4 SW 1/4 Section 12; Section 13; E 1/2 W 1/2, E 1/2 Section 14; NE 1/4 NE 1/4 Section 20; Section 21; E 1/2, W 1/2 SW 1/4 Section 23; Section 31.

T.30S., R.11W. Willamette Meridian: E 1/2, SE 1/4 SW 1/4 Section 1; E 1/2 Section 12; E 1/2, NW 1/4 Section 13; N 1/2 SE 1/4, S 1/2 NE 1/4, NE 1/4 NE 1/4, NE 1/4 SW 1/4, SE 1/4 NW 1/4 Section 35.

T.31S., R.11W. Willamette Meridian: SW 1/4 Section 2.



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Map and description of OR–06–d taken from United States Fish and Wildlife Service 1:100,000 map; Roseburg, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.28S., R.08W. Willamette Meridian: Section 3; Section 5; NE 1/4 Section 8; Section 9; N 1/2 NW 1/4 Section 10; NW 1/4 NW 1/4 Section 11; N 1/2 NW 1/4, W 1/2 NE 1/4, W 1/2 SW 1/4 Section 15; Section 17; Section 27; Section 33.

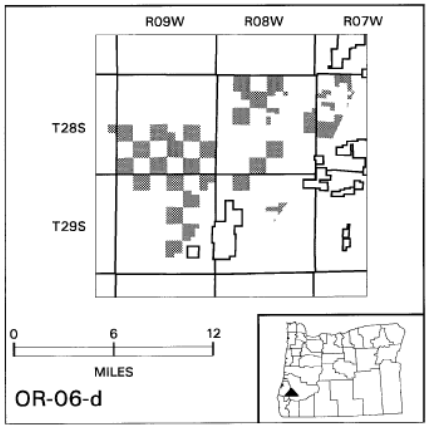
T.28S., R.09W. Willamette Meridian: Section 19; Section 21; SW 1/4 Section 22; Section 23; Section 25; Section 27; Section 29; Section 31; Section 33; Section 35.

T.28S., R.10W. Willamette Meridian: NE 1/4 Section 24.

T.29S., R.08W. Willamette Meridian: Section 5.

T.29S., R.09W. Willamette Meridian: Section 1 except SE 1/4; Section 3; Section 5; Section 11 except N 1/2

NE 1/4; Section 15; Section 23 except S 1/2 SE 1/4, NE 1/4 SE 1/4, SE 1/4 NE 1/4; Section 27 except S 1/2 SE 1/4.



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Map and description of OR–07–a taken from United States Fish and Wildlife Service 1:100,000 map; Port Orford, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.31S., R.12W. Willamette Meridian: N 1/2 NW 1/4, SW 1/4 NW 1/4 Section 5; SE 1/4, E 1/2 SW 1/4, SW 1/4 SW 1/4, NE 1/4 NW 1/4 Section 15; Section 21; Section 22 except SE 1/4; Section 23 except E 1/2 NE 1/4, SW 1/4 NE 1/4; W 1/2 NW 1/4 Section 25; Section 27.

T.32S., R.10W. Willamette Meridian: Section 2 except E 1/2 E 1/2; Section 3 except E 1/2 NE 1/4, SW 1/4 NE 1/4, SW 1/4 SW 1/4; E 1/2 SE 1/4, SE 1/4 NE 1/4 Section 4; S 1/2 Section 7; SW 1/4 SW 1/4, E 1/2 SE 1/4, NE 1/4 NE 1/4, S 1/2 NE 1/4 Section 8; Section 9 except SE 1/4, S 1/2 NE 1/4; Section 10; Section 11 except E 1/2 E 1/2, W 1/2 SE 1/4, E 1/2 SW 1/4; N 1/2 NW 1/4, W 1/2 SW 1/4, SW 1/4 NW 1/4 Section 15; Sections 16–17; Section 18 except E 1/2 SE 1/4, SE 1/4 NE 1/4; Section 19 except S 1/2 NW 1/4, NE 1/4 NW 1/4, NW 1/4 NE 1/4, E 1/2 SE 1/4, SW 1/4 SE 1/4; Section 20–21; W 1/2 NW 1/4 Section 22.

T.32S., R.11W. Willamette Meridian: SE 1/4 Section 1; N 1/2 N 1/2, SW 1/4 NW 1/4 Section 4; Section 5; N 1/2, NE 1/4 SE 1/4 Section 6; NE 1/4 SE 1/4 Section 7; Section 8 except SW 1/4 NW 1/4; W 1/2 Section 9; Section 12 except SW 1/4 SW 1/4; Section 13; SE 1/4, E 1/2 SW 1/4 Section 14; W 1/2 Section 16; Section 17; Section 18 except N 1/2 NW 1/4, E 1/2 SW 1/4, NW 1/4 SE 1/4; Section 19; Section 20 except S 1/2 SE 1/4; SE 1/4 Section 22; Section 23 except SE 1/4 NE 1/4, NW 1/4 NW 1/4; Section 24 except S 1/2 NW 1/4, N 1/2 SW 1/4; Section 25 except E 1/2 E 1/2; Section 26; NE 1/4 Section 27; E 1/2, NE 1/4 SW 1/4, S 1/2 SW 1/4 Section 28; S 1/2 S 1/2, NW 1/4 NW 1/4, NW 1/4 SW 1/4 Section 29; Sections 30–34; Section 35 except NE 1/4 NE 1/4; W 1/2 W 1/2 Section 36.

T.32S., R.12W. Willamette Meridian: E 1/2 NE 1/4, N 1/2 SE 1/4, SW 1/4 SE 1/4 Section 1; W 1/2 NW 1/4 Section 2; Section 3; Section 10; E 1/2 SE 1/4, SE 1/4 NE 1/4 Section 13; W 1/2, NW 1/4 NE 1/4 Section 15; Sections 19–20; W 1/2, W 1/2 NE 1/4 Section 21; SE 1/4 SE 1/4 Section 23; E 1/2 E 1/2, S 1/2 SW 1/4 Section 24; Section 25; Section 26 except N 1/2 NW 1/4; S 1/2 S 1/2, NE 1/4 SW 1/4 Section 27; SE 1/4 SE 1/4 Section 28; N 1/2 NW 1/4, SW 1/4 NW 1/4 Section 29; Section 30 except SE 1/4 SE 1/4; W 1/2, W 1/2 E 1/2, S 1/2 SE 1/4 Section 31; E 1/2, E 1/2 SW 1/4 Section 33; Sections 34–36.

T.32S., R.13W. Willamette Meridian: Section 4 except N 1/2 N 1/2; S 1/2 Section 5; S 1/2, SE 1/4 NE 1/4 Section 6; N 1/2 N 1/2, SE 1/4 NE 1/4, S 1/2 S 1/2, NE 1/4 SE 1/4 Section 7; Section 8; Sections 22–23; S 1/2, S 1/2 N 1/2 Section 24; Sections 25–27; E 1/2 NE 1/4, NE 1/4 SE 1/4 Section 31; Sections 32–36.

T.32S., R.14W. Willamette Meridian: N 1/2 Section 17; W 1/2 SW 1/4, SE 1/4 SW 1/4 Section 19; NE 1/4, N 1/2 SE 1/4 Section 22; Section 23 except S 1/2 S 1/2, NE 1/4 SE 1/4; Section 24 except W 1/2 SW 1/4, NW 1/4 NE 1/4, NE 1/4 NW 1/4; E 1/2 NE 1/4, NW 1/4 NE 1/4, NE 1/4 SE 1/4 Section 25; S 1/2 Section 29; SE 1/4, SE 1/4 SW 1/4, SE 1/4 NE 1/4, NW 1/4 NW 1/4 Section 30; Section 31 except W 1/2 W 1/2, NE 1/4 SW 1/4, E 1/2 NW 1/4; Section 32 except SE 1/4 SE 1/4.

T.33S., R.11W. Willamette Meridian: Sections 7–8; Section 9 except E 1/2 NW 1/4, W 1/2 NE 1/4; Sections 10–11; W 1/2 Section 12; N 1/2 NE 1/4 Section 13; Section 14 except SE 1/4, SE 1/4 SW 1/4; Sections 15–20; Section 21 except SE 1/4; Section 22 except SE 1/4 SE 1/4; W 1/2 NW 1/4, NW 1/4 SW 1/4 Section 23; N 1/2 NW 1/4, SW 1/4 NW 1/4 Section 27; S 1/2 NE 1/4, N 1/2 SE 1/4, SE 1/4 SW 1/4 Section 28; W 1/2, N 1/2 NE 1/4 Section 29; Sections 30–31; Section 32 except N 1/2 NE 1/4; NW 1/4 NW 1/4 Section 33.

T.33S., R.12W. Willamette Meridian: Section 7 except W 1/2 SW 1/4; Section 8; W 1/2 SW 1/4, SE 1/4, W 1/2 NW 1/4 Section 9; Section 10 except N 1/2 NW 1/4; Sections 11–32; Section 33 except E 1/2 SE 1/4; Section 34 except N 1/2 SW 1/4; Sections 35–36.

T.33S., R.13W. Willamette Meridian: E 1/2 Section 8; Sections 9–11; Section 12 except SE 1/4 SE 1/4; Section 13 except N 1/2 NE 1/4, NE 1/4 NW 1/4, SW 1/4 NW 1/4, NW 1/4 SW 1/4; Section 14 except S 1/2 S 1/2, NE 1/4 SW 1/4; SW 1/4, E 1/2 NE 1/4, NW 1/4 NW 1/4 Section 15; S 1/2, S 1/2 NW 1/4 Section 16; SE 1/4, SE 1/4 NE 1/4 Section 17; Sections 19–20; Section 21 except SE 1/4; E 1/2 NE 1/4 Section 22; Section 23 except SW 1/4 SW 1/4, N 1/2 NW 1/4, NW 1/4 NE 1/4; Sections 24–25; S 1/2 SE 1/4, SE 1/4 SW 1/4 Section 26; NW 1/4 Section 28; Section 29 except S 1/2 SW 1/4, SE 1/4; Section 30 except S 1/2 SE 1/4; NW 1/4, N 1/2 SW 1/4 Section 31; E 1/2 NE 1/4, SE 1/4 Section 34; Sections 35–36.

T.33S., R.14W. Willamette Meridian: Section 7 except N 1/2 N 1/2, S 1/2 NE 1/4, E 1/2 SE 1/4, NW 1/4 SW 1/4, SW 1/4 NW 1/4; S 1/2 SE 1/4 Section 13; SW 1/4 SW 1/4 Section 15; S 1/2 SE 1/4, NW 1/4, NW 1/4 SW 1/4, NW 1/4 SE 1/4 Section 17; SE 1/4 Section 18; NW 1/4, N 1/2 NE 1/4, SE 1/4 NE 1/4 Section 20; Section 21 except NW 1/4 NW 1/4, SW 1/4; Section 22 except SW 1/4, E 1/2 NE 1/4; Section 23 except N 1/2 N 1/2, SW 1/2 NE 1/4; Sections 24–28; Section 29 except NW 1/4; Sections 32–35; Section 36 except NW 1/4, E 1/2 SE 1/4.

T.34S., R.11W. Willamette Meridian: NW 1/4, NW 1/4 NE 1/4 Section 4; Sections 5–6; Section 7 except

NE 1/4 SE 1/4; NW 1/4 NW 1/4, E 1/2 NE 1/4, SW 1/4 NE 1/4 Section 8; W 1/2 NW 1/4 Section 9; NE 1/4 Section 18; N 1/2 NW 1/4, SW 1/4 NW 1/4, NW 1/4 SW 1/4, SE 1/4 Section 19; NE 1/4, E 1/2 NW 1/4 Section 30; W 1/2 SW 1/4, SW 1/4 NW 1/4 Section 31.

T.34S., R.12W. Willamette Meridian: Sections 1–3; Section 4 except W 1/2 SW 1/4; Section 5 except S 1/2 S 1/2; Section 6 except N 1/2 NE 1/4; Section 7 except E 1/2 NE 1/4, SE 1/4; SE 1/4 Section 8; Sections 9–36.

T.34S., R.13W. Willamette Meridian: Sections 1–2; NE 1/4, N 1/2 SE 1/4, E 1/2 NW 1/4 Section 3; Sections 11–14; E 1/2 Section 15; SW 1/4, W 1/2 SE 1/4 Section 17; Section 20 except NW 1/4 SW 1/4, S 1/2 SW 1/4; Section 21 except NW 1/4 NW 1/4; Section 22 except NW 1/4 NE 1/4; Section 23 except NW 1/4 NW 1/4; Sections 24–26; N 1/2, NE 1/4 SE 1/4 Section 27.

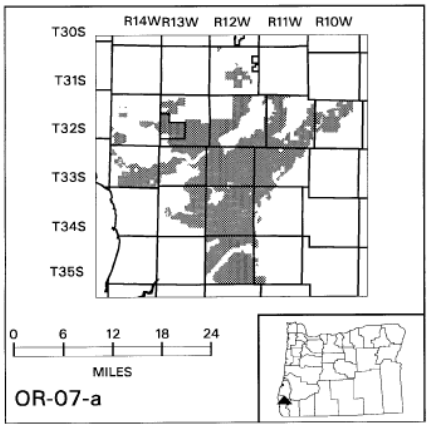
T.35S., R.11W. Willamette Meridian: SW 1/4, W 1/2 NW 1/4 Section 6; NW 1/4 Section 7; S 1/2 SW 1/4 Section 18; N 1/2 NW 1/4, NE 1/4 SW 1/4 Section 19; Section 31; W 1/2 Section 32.

T.35S., R.12W. Willamette Meridian: Sections 1–4; Section 5 except SW 1/4 SW 1/4, NE 1/4 SW 1/4; Section 6 except SE 1/4 SE 1/4, SW 1/4 SW 1/4; SE 1/4 SW 1/4, E 1/2 Section 7; Sections 8–9; N 1/2, NW 1/4 SW 1/4 Section 10; N 1/2 N 1/2, SW 1/4 NW 1/4, SW 1/4 SE 1/4 Section 11; NE 1/4 NE 1/4 Section 12; Section 13 except SE 1/4 NE 1/4, NE 1/4 SE 1/4, N 1/2 N 1/2; Section 14; Section 15 except NW 1/4; SE 1/4 SE 1/4, W 1/2 NE 1/4, NW 1/4, N 1/2 SW 1/4 Section 16; Sections 17–19; Section 20 except E 1/2 NE 1/4, N 1/2 SE 1/4; Section 21 except NW 1/4, NW 1/4 NE 1/4, NW 1/4 SW 1/4; Sections 22–28; Section 29 except N 1/2 NW 1/4, SW 1/4 NW 1/4, W 1/2 NE 1/4; Section 30 except SE 1/4 NE 1/4, SE 1/4, SE 1/4 SW 1/4; Section 32 except SW 1/4 SW 1/4; Sections 33–36.

Description of Lands Using Protracted Public Land Survey Lines

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.32S., R.13W. Willamette Meridian: Sections 18–21; Sections 28–29; N 1/2, NW 1/4 SW 1/4 Section 30.



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Map and description of OR–07-b taken from United States Fish and Wildlife Service 1:100,000 map; Port Orford and Gold Beach, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.35S., R.12W. Willamette Meridian: Section 31 except E 1/2 E 1/2, N 1/2 N 1/2, SW 1/4 NW 1/4.

T.35S., R.13W. Willamette Meridian: NW 1/4, N 1/2 NE 1/4, S 1/2 SE 1/4, S 1/2 SW 1/4, NW 1/4 SW 1/4 Section 31; N 1/2 N 1/2 Section 32; N 1/2 Section 33; N 1/2, NE 1/4 SE 1/4 Section 34; Section 35; W 1/2, NW 1/4 NE 1/4 Section 36.

T.36S., R.12W. Willamette Meridian: Sections 1–4; NE 1/4, E 1/2 SE 1/4, SE 1/4 NW 1/4, N 1/2 NW 1/4, NW 1/4 SE 1/4 Section 5; E 1/2 E 1/2, W 1/2 SE 1/4, SW 1/4 NE 1/4 Section 8; Sections 9–17; S 1/2 SE 1/4 Section 18; NE 1/4, E 1/2 SE 1/4 Section 19; Sections 20–23; Section 24 except SE 1/4 SE 1/4; N 1/2 NW 1/4 Section 25; Section 26 except N1/2 SE1/4; Sections 27–29; NE 1/4, E 1/2 SE 1/4, NW 1/4 SE 1/4, E 1/2 NW 1/4 Section 30; SE 1/4, E 1/2 SW 1/4, E 1/2 NE 1/4, SW 1/4 SW 1/4 Section 31; Sections 32–35; SW 1/4, W 1/2 NW 1/4 Section 36.

T.36S., R.13W. Willamette Meridian: S 1/2 S 1/2, E 1/2 NE 1/4, NE 1/4 SE 1/4, N 1/2 NW 1/4 Section 1; SW 1/4, S 1/2 SE 1/4, NE 1/4 NE 1/4 Section 2; Section 3; NE 1/4, N 1/2 SE 1/4, N 1/2 NW 1/4 Section 4; Section 5; NW 1/4, SE 1/4, NE 1/4 SW 1/4, E 1/2 NE 1/4, SW 1/4 NE 1/4 Section 6; N 1/2, SW 1/4 SE 1/4, NW 1/4 SW 1/4 Section 7; Section 8 except SE 1/4 NE 1/4, NE 1/4 SE 1/4; Section 9 except NW 1/4 NE 1/4, NE 1/4 NW 1/4, SW 1/4 NW 1/4, NW 1/4 SW 1/4; Sections 10–11; Section 12 except E 1/2 SE 1/4, SE 1/4 NE 1/4; Section 13 except SE 1/4, E 1/2 SW 1/4; Section 14 except SW 1/4; Section 15 except W 1/2 NW 1/4, NW 1/4 SW 1/4; N 1/2 NE 1/4, SW 1/4, S 1/2 SE 1/4 Section 17; E 1/2, E 1/2 SW 1/4 Section 18; E 1/2 SE 1/4, NE 1/4, S 1/2 SW 1/4, NE 1/4 NW 1/4 Section 19; NW 1/4, SW 1/4 NE 1/4 Section 20; E 1/2, NE 1/4 SW 1/4 Section 22; Section 23; Section 24 except NE 1/4; Sections 25–26; Section 27 except N 1/2 NW 1/4, SW 1/4 NW 1/4; SE 1/4 SE 1/4, NW 1/4 NW 1/4 Section 28; Sections 29–32; W 1/2 W 1/2, E 1/2 E 1/2 Section 33; Section 34; N 1/2, W 1/2 SW 1/4 Section 35; N 1/2 N 1/2 Section 36.

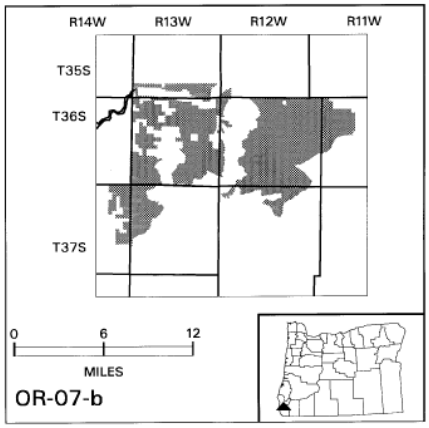
T.36S., R.12 1/2W. Willamette Meridian: Section 1 except SE 1/4 NE 1/4, SE 1/4; S 1/2, NW 1/4 Section 12; NW 1/4, N 1/2 NE 1/4 Section 13; W 1/2 Section 24; W 1/2 Section 25; W 1/2 NW 1/4 Section 36.

T.37S., R.12W. Willamette Meridian: NW 1/4 NW 1/4 Section 1; Section 2 except SE 1/4, SE 1/4 SW 1/4; Section 3 except NW 1/4 SW 1/4; Section 4 except NE 1/4 SE 1/4; N 1/2 N 1/2, S 1/2 NW 1/4 Section 5; Section 6 except S 1/2, SE 1/4 NW 1/4; NE 1/4, E 1/2 SE 1/4, N 1/2 NW 1/4 Section 9; W 1/2, NW 1/4 NE 1/4 Section 10.

T.37S., R.13W. Willamette Meridian: W 1/2, N 1/2 NE 1/4 Section 5; Sections 6–8; W 1/2 W 1/2, NE 1/4 SW 1/4, SE 1/4 NW 1/4 Section 9; W 1/2, W 1/2 NE 1/4, NE 1/4 NE 1/4 Section 17; Section 18; N 1/2 NE 1/4, NW 1/4, W 1/2 SW 1/4 Section 19; NW 1/4 NW 1/4 Section 20; NW 1/4 NW 1/4 Section 30.

T.37S., R.14W. Willamette Meridian: Section 1 except SW 1/4 SW 1/4; E 1/2 SE 1/4, NE 1/4 Section 2; E 1/2 Section 11; Section 12 except W 1/2 NW 1/4, N 1/2 SW 1/4; SE 1/4, N 1/2 N 1/2 Section 13; Section 24 except NW 1/4 NE 1/4.

T.37S., R.12 1/2W. Willamette Meridian: Section 1 except N 1/2 NW 1/4, S 1/2 SW 1/4.



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Map and description of OR–07–c taken from United States Fish and Wildlife Service 1:100,000 map; Gold Beach, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.37S., R.12W. Willamette Meridian: E 1/2 SW 1/4, W 1/2 SE 1/4, SE 1/4 SE 1/4 Section 17; SE 1/4 SE 1/4 Section 18; Section 19 except N 1/2 NW 1/4; Section 20; W 1/2 W 1/2 Section 21; S 1/2 SE 1/4, SW 1/4, NW 1/4, NW 1/4 SE 1/4 Section 28; Sections 29–33; W 1/2, NW 1/4 SE 1/4, SW 1/4 NE 1/4 Section 34; S 1/2 SE 1/4, SE 1/4 SW 1/4 Section 35.

T.37S., R.13W. Willamette Meridian: SE 1/4, E 1/2 SW 1/4, S 1/2 NE 1/4 Section 24; Section 25; Section 26 except NE 1/4 NW 1/4, NW 1/4 NE 1/4; E 1/2 E 1/2 Section 27; SE 1/4, E 1/2 NE 1/4, E 1/2 SW 1/4 Section 34; Sections 35–36.

T.37S., R.12 1/2W. Willamette Meridian: Section 24 except NW 1/4 NW 1/4; Sections 24–25; Section 36.

T.37 1/2S. R.11W. Willamette Meridian: W 1/2 SW 1/4, SW 1/4 NW 1/4 Section 31.

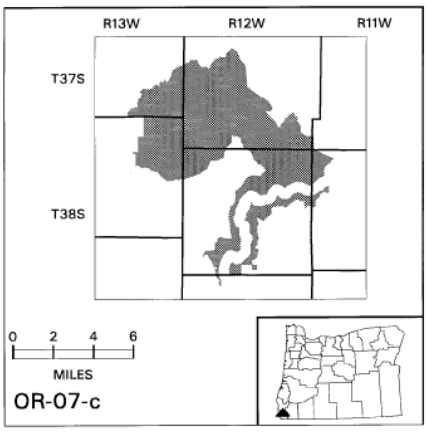
T.37 1/2S. R.12.W. Willamette Meridian: Section 25 except E 1/2; Section 26 except E 1/2 NW 1/4; Sections 27–32; Section 33 except S 1/2 SW 1/4; Sections 34–35; Section 36 except N 1/2 NE 1/4.

T.38S., R.11W. Willamette Meridian: Section 6 except N 1/2 NE 1/4, S 1/2 SE 1/4, NE 1/4 SE 1/4; W 1/2, W 1/2 SE 1/4, Section 7; NW 1/4, W 1/2 SW 1/4, NW 1/4 NE 1/4 Section 18.

T.38S., R.12W. Willamette Meridian: Sections 1–2; Section 3 except W 1/2 SW 1/4, SE 1/4 SW 1/4; NE 1/4 NE 1/4 Section 4; NW 1/4, W 1/2 NE 1/4 Section 5; Section 6; N 1/2 NW 1/4 Section 7; S 1/2 S 1/2, NE 1/4, N 1/2 SE 1/4, NE 1/4 SW 1/4 Section 9; Sections 10–12; N 1/2 N 1/2, S 1/2 NE 1/4, NW 1/4 SE 1/4 Section 13; N 1/2, N 1/2 S 1/2 Section 14; Sections 15–16; E 1/2 SE 1/4 Section 17; E 1/2 E 1/2 Section 20; Section 21; W 1/2 W 1/2, NE 1/4 NW 1/4, NW 1/4 NE 1/4 Section 22; W 1/2 Section 27; Section 28; Section 29 except NW 1/4 NW 1/4; S 1/2 SE 1/4 Section 30; N 1/2 NE 1/4 Section 31; Section 32; Section 33 except S 1/2 SE 1/4; W 1/2 NW 1/4, NW 1/4 SW 1/4 Section 34.

T.38S., R.13W. Willamette Meridian: Sections 1–2; SE 1/4 SE 1/4 Section 3; E 1/2 E 1/2, SW 1/4 SE 1/4 Section 10; Sections 11–13; Section 14 except S 1/2 SW 1/4, SW 1/4 SE 1/4; NE 1/4 Section 15; N 1/2 N 1/2 Section 24.

T.39S., R.12W. Willamette Meridian: N 1/2 NW 1/4, SE 1/4 NW 1/4, NE 1/4 SW 1/4, NE 1/4 NE 1/4 Section 5.



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Map and description of OR–07–d taken from United States Fish and Wildlife Service 1:100,000 map; Gold Beach and Grants Pass, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.38S., R.11W. Willamette Meridian: S 1/2 SE 1/4, NE 1/4 SE 1/4, SE 1/4 NE 1/4 Section 31.

T.39S., R.11W. Willamette Meridian: SW 1/4, SW 1/4 SE 1/4 Section 4; S 1/2, S 1/2 NW 1/4 Section 5; E 1/2, E 1/2 W 1/2 Section 6; Section 7 except NW 1/4 NW 1/4; Section 8 except SW 1/4 SW 1/4; Section 9; W 1/2 W 1/2, E 1/2 SW 1/4 Section 10; NW 1/4, SW 1/4 SW 1/4 Section 15; Section 16 except NW 1/4 SW 1/4, SW 1/4 NW 1/4; N 1/2 NE 1/4, SE 1/4 SW 1/4, S 1/2 SE 1/4 Section 17; Section 18 except N 1/2 NE 1/4; Sections 19–20; Section 21 except SE 1/4 SE 1/4; W 1/2 NW 1/4 Section 22; NW 1/4 NW 1/4, W 1/2 SW 1/4, SE 1/4 SW 1/4, SW 1/4 SE 1/4 Section 29; Sections 30–32; SW 1/4, S 1/2 NW 1/4, W 1/2 SE 1/4 Section 33.

T.39S., R.12W. Willamette Meridian: S 1/2 S 1/2 Section 1; S 1/2 S 1/2, N 1/2 SE 1/4 Section 2; S 1/2 Section 3; Section 10 except SE 1/4 SE 1/4; Section 11 except S 1/2 SW 1/4; Section 12; Section 13 except SW 1/4, SW 1/4 NW 1/4; NE 1/4 NE 1/4 Section 14; W 1/2, W 1/2 E 1/2, E 1/2 SE 1/4 Section 19; S 1/2, E 1/2 NE 1/4 Section 20; Section 21; S 1/2 S 1/2, NW 1/4 SW 1/4, W 1/2 NW 1/4, NE 1/4 SE 1/4 Section 22; S 1/2, S 1/2 N 1/2 Section 23; Sections 24–36.

T.39S., R.13W. Willamette Meridian: Section 33.

T.40S., R.09W. Willamette Meridian: SW 1/4 Section 4; S 1/2, S 1/2 NW 1/4 Section 5; SE 1/4, SE 1/4 NE 1/4 Section 6; Section 7 except S 1/2 SE 1/4; Section 8 except S 1/2 S 1/2; N 1/2 NW 1/4, SW 1/4 NW 1/4 Section 9; W 1/2 NW 1/4, NE 1/4 NW 1/4 Section 18; Section 19 except E 1/2 NW 1/4, NE 1/4 SW 1/4; SW 1/4, S 1/2 NW 1/4 Section 20; S 1/2 SE 1/4 Section 21; Section 27 except NE 1/4 NE 1/4; Section 28; SE 1/4, SE 1/4 SW 1/4, SE 1/4 NE 1/4, NE 1/4 NW 1/4 Section 29; Section 30 except E 1/2 SE 1/4, SE 1/4 NE 1/4, SW 1/4 SE 1/4, SE 1/4 SW 1/4; S 1/2, W 1/2 NW 1/4 Section 31; Section 32 except NW 1/4 NW 1/4; Section 33; Section 34 except E 1/2 SE 1/4, SE 1/4 NE 1/4, SW 1/4 SE 1/4.

T.40S., R.10W. Willamette Meridian: SW 1/4 SW 1/4 Section 1; SE 1/4, S 1/2 SW 1/4, E 1/2 NE 1/4 Section 2; S 1/2 SW 1/4 Section 3; SE 1/4 SE 1/4 Section 4; SE 1/4, S 1/2 NE 1/4 Section 8; Section 9 except N 1/2 NW 1/4; Sections 10–11; Section 12 except NW 1/4 NE 1/4; Sections 13–16; Section 17 except N 1/2 NW 1/4, SW 1/4 NW 1/4; Section 19 except NW 1/4, NW 1/4 SW 1/4, NW 1/4 NE 1/4; Sections 20–36.

T.40S., R.11W. Willamette Meridian: N 1/2 NW 1/4, SW 1/4 NW 1/4, NW 1/4 NE 1/4 Section 4; Sections 5–8; W 1/2 NW 1/4, S 1/2 SE 1/4, SW 1/4 Section 9; Section 16 except E 1/2 E 1/2; Sections 17–21; E 1/2 SE 1/4, SW 1/4 SE 1/4 Section 25; Section 27 except E 1/2, NE 1/4 NW 1/4; Sections 28–33; W 1/2 Section 34; SE 1/4 SE 1/4, SE 1/4 NE 1/4 Section 35; Section 36.

T.40S., R.12W. Willamette Meridian: Sections 1–30; Section 31 except W 1/2 SW 1/4, SW 1/4 NW 1/4; Sections 32–36.

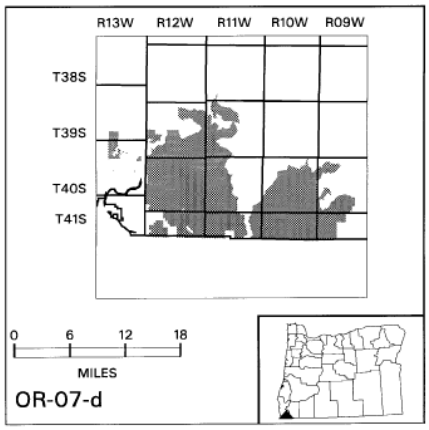
T.40S., R.13W. Willamette Meridian: Section 4 except SE 1/4 SE 1/4; W 1/2, NW 1/4 NE 1/4, S 1/2 SE 1/4, NE 1/4 SE 1/4 Section 9; W 1/2, NE 1/4 Section 10; SE 1/4 SW 1/4 Section 12; N 1/2 NW 1/4 Section 13.

T.41S., R.09W. Willamette Meridian: Sections 4–8; Sections 17–18.

T.41S., R.10W. Willamette Meridian: Sections 1–18.

T.41S., R.11W. Willamette Meridian: Section 1; Section 2 except NW 1/4 NE 1/4, NE 1/4 NW 1/4; Sections 3–15; Sections 17–18.

T.41S., R.12W. Willamette Meridian: Sections 1–4; Section 5 except W 1/2, SW 1/4 SE 1/4; Section 7 except NW 1/4, W 1/2 SW 1/4, NW 1/4 NE 1/4; W 1/2, S 1/2 SE 1/4 Section 8; Section 9 except S 1/2 S 1/2, NW 1/4 SW 1/4; Section 10; Section 11 except SE 1/4 SW 1/4, W 1/2 SW 1/4; Sections 12–13; Section 14 except NE 1/4 NW 1/4, NW 1/4 NE 1/4; Section 15; Section 17; Section 18 except W 1/2 W 1/2.



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Map and description of OR–07–f taken from United States Fish and Wildlife Service 1:100,000 map; Port Orford, Canyonville, Gold Beach and Grants Pass, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.32S., R.09W. Willamette Meridian: Section 34.

T.32S., R.10W. Willamette Meridian: Section 25; E 1/2, NE 1/4 NW 1/4, SE 1/4 SW 1/4 Section 26; Section 35 except W 1/2 NW 1/4; Section 36 except SE 1/4 SW 1/4, SW 1/4 SE 1/4.

T.33S., R.09W. Willamette Meridian: Section 2; Sections 3–4; Section 5 except SE 1/4 NW 1/4, E 1/2 SW 1/4; Section 6 except SE 1/4; Section 7 except E 1/2 NW 1/4, W 1/2 NE 1/4; Section 8 except NE 1/4 NW 1/4; Sections 9–10; Sections 17–19.

T.33S., R.10W. Willamette Meridian: Section 1 except NE 1/4, N 1/2 SW 1/4, S 1/2 NW 1/4; Section 2 except NE 1/4 SE 1/4; Section 3 except NW 1/4, N 1/2 NE 1/4, SW 1/4 SW 1/4, N 1/2 SW 1/4; Section 9 except W 1/2, N 1/2 NE 1/4, SW 1/4 SE 1/4; Section 10; Section 11 except NE 1/4 NW 1/4; Section 12 except NW 1/4, SE 1/4 NE 1/4; Sections 13–14; Section 15 except W 1/2 SW 1/4; Section 21 except W 1/2; Sections 22–24; Sections 26–27; Section 28 except N 1/2 NW 1/4; Section 29 except NW 1/4 SW 1/4; SE 1/4 SE 1/4 Section 30; Section 31 except W 1/2, W 1/2 SE 1/4; Sections 32–34.

T.34S., R.10W. Willamette Meridian: Sections 4–5; Section 6 except NW 1/4 NE 1/4, N 1/2 NW 1/4, SW 1/4 NW 1/4; Sections 7–8; Section 18.

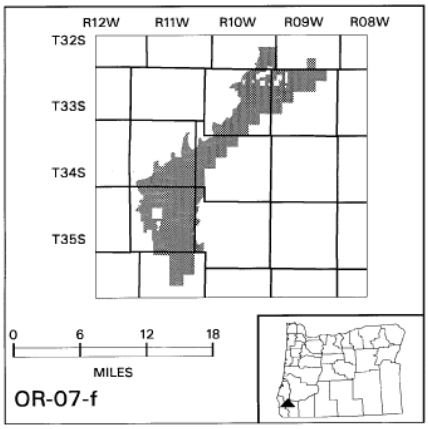
T.34S., R.10 1/2W. Willamette Meridian:S 1/2 Section 7; Section 18 except NW 1/4 NW 1/4; Sections 19; Sections 30–31.

T.34S., R.11W. Willamette Meridian: E 1/2 SE 1/4, SE 1/4 NE 1/4 Section 11; Section 12 except E 1/4; Section 13 except NE 1/4; E 1/2 E 1/2, SW 1/4 SW 1/4 Section 14; SE 1/4 SE 1/4 Section 15; Section 21 except N 1/2, E 1/2 SE 1/4, NW 1/4 SW 1/4; Section 22 except NW 1/4, W 1/2 NE 1/4, NW 1/4 SE 1/4, N 1/2 SW 1/4, SW 1/4 SW 1/4; Section 23 except NE 1/4 NW 1/4, NW 1/4 NE 1/4; Sections 24–28; S 1/2 NE 1/4, SE 1/4 Section 31; Section 32 except N 1/2 NW 1/4; Sections 33–36.

T.35S., R.10 1/2W. Willamette Meridian: Section 6; Section 7 except E 1/2 E 1/2, W 1/2 SE 1/4, NE 1/4 SW 1/4; Section 18 except E 1/2, E 1/2 SW 1/4; NW 1/4, W 1/2 SW 1/4, NW 1/4 NE 1/4 Section 19; W 1/2 SW 1/4 Section 30; Section 31.

T.35S., R.11W. Willamette Meridian: Sections 1–4; Section 5 except SW 1/4 SW 1/4; E 1/2 NE 1/4 Section 6; E 1/2 E 1/2 Section 7; Sections 8–15; Section 17; E 1/2 NE 1/4, NW 1/4 NE 1/4 Section 18; Section 20 except SW 1/4 NW 1/4, W 1/2 SW 1/4; Section 21 except SW 1/4 NE 1/4; Sections 22–28; NE 1/4 NW 1/4, E 1/2 E 1/2 Section 29; Section 33 except W 1/2 SW 1/4; Sections 34–36.

T.36S., R.11W. Willamette Meridian: Sections 2–3; N 1/2 N 1/2, SE 1/4 NE 1/4, E 1/2 SE 1/4 Section 4; NE 1/4 NW 1/4, N 1/2 NE 1/4 Section 5; E 1/2 E 1/2 Section 9; Sections 10–11; Section 15; E 1/2 E 1/2 Section 16.



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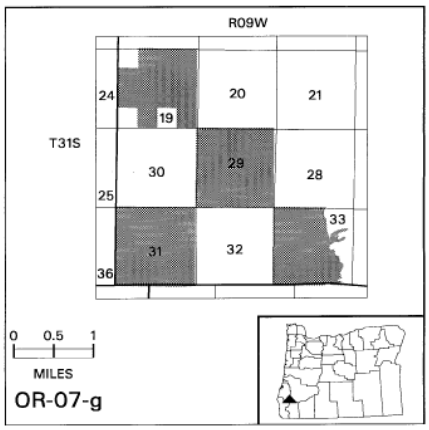
Map and description of OR–07–g taken from United States Fish and Wildlife Service 1:100,000 map; Canyonville, Oregon; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.31S., R.09W. Willamette Meridian: Section 19 except NW 1/4 NW 1/4, SW 1/4 SW 1/4, SW 1/4 SE 1/4; Section 29; Section 31; Section 33 except NE 1/4 NE 1/4.



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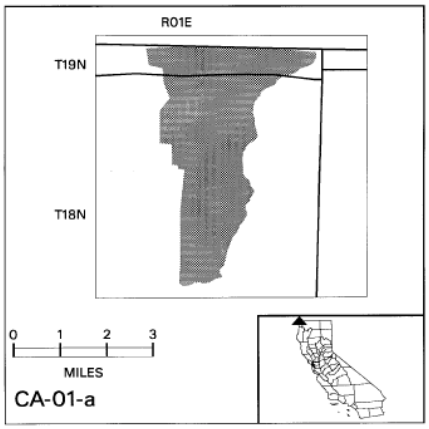
Map and description of CA–01–a taken from United States Fish and Wildlife Service 1:100,000 map; Grants Pass, Oregon; Crescent City and Happy Camp, California; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.18N., R.01E. Humboldt Meridian: NW 1/4 NW 1/4 Section 1; W 1/2, NE 1/4, NW 1/4 SE 1/4 Section 2; Section 3; E 1/2 Section 4; NE 1/4, E 1/2 SE 1/4 Section 9; Section 10; W 1/2 NE 1/4, NW 1/4, SW 1/4, Section 11; W 1/2 Section 14; Section 15; NE 1/4 NE 1/4 Section 16; Section 22; NW 1/4, NW 1/4 SW 1/4 Section 23; N 1/2, N 1/2 SW 1/4, NW 1/4 SE 1/4 Section 27.

T.19N., R.01E. Humboldt Meridian: Section 33 except W 1/2 SW 1/4; Sections 34–35; Section 36 except SE 1/4 SE 1/4.



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Map and description of CA–01–b taken from United States Fish and Wildlife Service 1:100,000 map; Crescent City and Happy Camp, California; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.17N., R.02E. Humboldt Meridian: SW 1/4 SE 1/4, SE 1/4 SW 1/4 Section 29; Section 31 except N 1/2 NW 1/4, SW 1/4 NW 1/4; W 1/2, W 1/2 NE 1/4 Section 32.

T.17N., R.01E. Humboldt Meridian: S 1/2 SW 1/4 Section 35; SE 1/4, SE 1/4 SW 1/4 Section 36.

T.16N., R.03E. Humboldt Meridian: S 1/2 SW 1/4, NW 1/4 SW 1/4, SW 1/4 SE 1/4 Section 17; SE 1/4, E 1/2 SW 1/4, SW 1/4 SW 1/4, S 1/2 NE 1/4, SE 1/4 NW 1/4 Section 18; Sections 19–20; SW 1/4, S 1/2 NW 1/4, Section 21; W 1/2 SW 1/4, SW 1/4 NW 1/4 Section 27; Section 28 except NE 1/4 NE 1/4; Sections 29–33; S 1/2 NW 1/4, SW 1/4, W 1/2 SE 1/4, SE 1/4 SE 1/4 Section 34.

T.16N., R.02E. Humboldt Meridian: W 1/2, SW 1/4 SE 1/4 Section 5; Sections 6–8; W 1/2 Section 9; W 1/2 NW 1/4, SW 1/4, S 1/2 SE 1/4 Section 16; Section 17; Section 18 except W 1/2 NW 1/4, SE 1/4 NW 1/4; Sections 19–21; Section 22 except N 1/2 NE 1/4, SE 1/4 NE 1/4; SW 1/4 SW 1/4 Section 23; S 1/2, S 1/2 NE 1/4, NE 1/4 NE 1/4 Section 25; Section 26 except NE 1/4 NE 1/4; Sections 27–29; N 1/2 N 1/2, SE 1/4 NE 1/4 Section 30; Section 32 except SW 1/4; Sections 33–36.

T.16N., R.01E. Humboldt Meridian: Sections 1–2; SE 1/4, E 1/2 NE 1/4 Section 3; NE 1/4, SW 1/4 NW 1/4, NE 1/4 NW 1/4 Section 10; N 1/2, SE 1/2 SE 1/4, N 1/2 S 1/2 Section 11; Section 12; S 1/2 SE 1/4 Section 13; NE 1/4 Section 24.

T.15N., R.03E. Humboldt Meridian: Sections 2–6; N 1/2, N 1/2 SW 1/4 Section 7; SE 1/4, S 1/2 SW 1/4, NE 1/4 SW 1/4 Section 8; Sections 9–10; W 1/2, W 1/2 NE 1/4 Section 11; SW 1/4 SW 1/4 Section 13; Section 14 except N 1/2 NE 1/4, SE 1/4 NE 1/4; Sections 15–17; Section 18 except NW 1/4, NW 1/4 SW 1/4; NE 1/4, NE 1/4 NW 1/4 Section 19; Section 20 except SW 1/4; Sections 21–23; W 1/2 NW 1/4, NW 1/4 SW 1/4 Section 24; Section 27 except E 1/2 E 1/2, SW 1/4 SW 1/4; Section 28 except S 1/2, SW 1/4 NE 1/4, SE 1/4 NW 1/4; NE 1/4, NW 1/4 SE 1/4, NE 1/4 SW 1/4, E 1/2 NW 1/4 Section 29.

T.15N., R.02E. Humboldt Meridian: Sections 1–3; N 1/2 NW 1/4, NE 1/4, E 1/2 SE 1/4 Section 4; NE 1/4 NE 1/4 Section 5; Section 10 except W 1/2 SW 1/4; Sections 11–12; Section 13 except E 1/2 NE 1/4, SE 1/4; Section 14; NE 1/4, E 1/2 SE 1/4, NW 1/4 SE 1/4 Section 15; E 1/2 SE 1/4 Section 22; Section 23 except SE 1/4 NE 1/4, SW 1/4 SE 1/4; SW 1/4 Section 24; Section 25 except E 1/2 NE 1/4; Section 26 except NE 1/4 NE 1/4; S 1/2, S 1/2 N 1/2 Section 27; SE 1/4, SE 1/4 SW 1/4, S 1/2 NE 1/4 Section 28; Section 33–34; Section 35 except E 1/2 E 1/2.

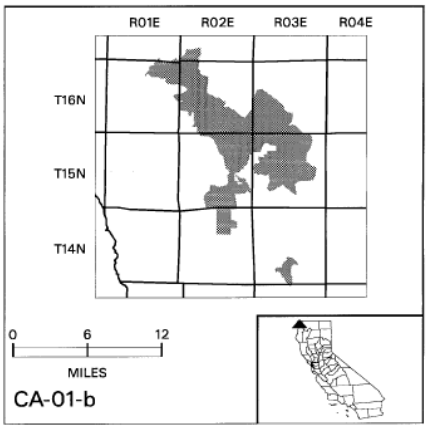
T.14N., R.02E. Humboldt Meridian: N 1/2 NW 1/4, W 1/2 W 1/2, NW 1/4 NE 1/4 Section 2; Section 3; N 1/2 N 1/2, E 1/2 E 1/2 Section 4; E 1/2 E 1/2 Section 9; Section 10; NW 1/4, N 1/2 SW 1/4, W 1/2 NE 1/4, NW 1/4 SE 1/4 Section 11; NW 1/4 NW 1/4 Section 14; N 1/2 N 1/2 Section 15.

Description of Lands Using Protracted Public Land Survey Lines

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.14N., R.03E. Humboldt Meridian: SE 1/4 SE 1/4 Section 21; SW 1/4 SW 1/4 Section 22; W 1/2 SW 1/4, W 1/2 NE 1/4, NW 1/4 Section 27; Section 28 except NW 1/4; SE 1/4 SE 1/4 Section 29; E 1/2 Section 33 except W 1/2 W 1/2, E 1/2 SW 1/4, SW 1/4 SE 1/4; W 1/2 W 1/2 Section 34.

T.13N., R.03E. Humboldt Meridian: NW 1/4 NW 1/4 Section 3.



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Map and description of CA–01–c taken from United States Fish and Wildlife Service 1:100,000 map; Happy Camp and Hoopa, California; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T. 11N., R.06E. Humboldt Meridian: N 1/2 NW 1/4, SW 1/4 NW 1/4, W 1/2 SW 1/4 Section 30.

T. 11N., R.05E. Humboldt Meridian: W 1/2 NE 1/4, NW 1/4, E 1/2 SW 1/4, W 1/2 SE 1/4 Section 36.

Description of Lands Using Protracted Public Land Survey Lines

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T. 14N., R.05E. Humboldt Meridian: S 1/2 Section 7; Section 18 except E 1/2 SE 1/4, SE 1/4 NE 1/4; W 1/2, NW 1/4 NE 1/4 Section 19; W 1/2 SW 1/4, NW 1/4 NW 1/4 Section 30; Section 31 except NE 1/4, NE 1/4 NW 1/4; SW 1/4 SW 1/4 Section 32.

T. 14N., R.04E. Humboldt Meridian: SE 1/4, SE 1/4 SW 1/4 Section 12; Section 13 except W 1/2 W 1/2, Sections 24–25; E 1/2 NE 1/4 Section 26; SE 1/4, E 1/2 NE 1/4 Section 35; Section 36.

T. 13N., R.05E. Humboldt Meridian: SW 1/4, W 1/2 NW 1/4, NE 1/4 NW 1/4, W 1/2 SE 1/4 Section 5; Sections 6–7; Section 8 except NE 1/4, NE 1/4 SE 1/4; S 1/2 S 1/2 Section 9; E 1/2 SW 1/4, SW 1/4 SW 1/4, W 1/2 SE 1/4 Section 10; NW 1/4, N 1/2 SW 1/4, W 1/2 NE 1/4, NW 1/4 SE 1/4, SE 1/4 SE 1/4 Section 15; Section 16 except SE 1/4 SE 1/4; Sections 17–21; Section 22 except SE 1/4 SE 1/4; N 1/2 NW 1/4 Section 27; N 1/2 NW 1/4, NW 1/4 NE 1/4 Section 28; Section 29 except E 1/2 SE 1/4; Sections 30–31, Section 32 except E 1/2 NE 1/4; S 1/2 SE 1/4 Section 35; SW 1/4, W 1/2 SE 1/4, SE 1/4 SE 1/4 Section 36.

T. 13N., R.04E. Humboldt Meridian: Section 1; Section 2 except NW 1/4; S 1/2 SE 1/4 Section 3; SE 1/4 SE 1/4 Section 9; Section 10 except NW 1/4 NW 1/4; Sections 11–15; E 1/2 E 1/2 Section 16; SE 1/4, S 1/2 NE 1/4, NE 1/4 NE 1/4, S 1/2 SW 1/4 Section 21; Sections 22–28; Section 29 except N 1/2 N 1/2; Section 30 except N 1/2 N 1/2; Sections 31–36.

T. 13N., R.03E. Humboldt Meridian: S 1/2 Section 25; S 1/2 SE 1/4 Section 26; Section 35 except W 1/2 NW 1/4; Section 36.

T. 12N., R.06E. Humboldt Meridian: W1/2 SW 1/4 Section 6; SW 1/4 Section 7; W 1/2, W 1/2 SE 1/4 Section 18; N 1/2 NW 1/4, NW 1/4 NE 1/4 Section 19.

T. 12N., R.05E. Humboldt Meridian: Section 1; Section 2 except NW 1/4, NW 1/4 SW 1/4; S 1/2 S 1/2, NW 1/4 SW 1/4 Section 3; Section 4 except N 1/2 NE 1/4, SE 1/4 NE 1/4; Sections 5–11; Section 12 except S 1/2 NE 1/4; Sections 13–23; Section 24 except E 1/2 SE 1/4, SE 1/4 NE 1/4; Section 25 except E 1/2 NE 1/4; Sections 26–36.

T. 12N., R.04E. Humboldt Meridian: Sections 1–36.

T. 12N., R.03E. Humboldt Meridian: Sections 1–2; Section 3 except NW 1/4, W 1/2 SW 1/4, W 1/2 NE 1/4, NE 1/4 NE 1/4; Section 10 except W 1/2 W 1/2, NE 1/4 NW 1/4; Sections 11–14, Section 15 except W 1/2 W 1/2, SE 1/4 SW 1/4, SW 1/4 SE 1/4; SW 1/4 SE 1/4 Section 22; Section 23 except SW 1/4 SW 1/4; Section 24; Section 25 except SW 1/4 SE 1/4; N 1/2 NE 1/4, SE 1/4 NE 1/4 Section 26.

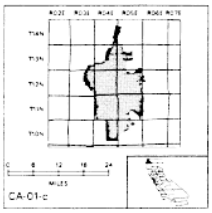
T. 11N., R.06E. Humboldt Meridian: SW 1/4, W 1/2 NW 1/4, Section 6; W 1/2 Section 7; NW 1/4 NW 1/4 Section 18; SW 1/4, SW 1/4 NW 1/4 Section 19.

T. 11N., R.05E. Humboldt Meridian: Sections 1–25; Section 26 except SW 1/4, SW 1/4 SE 1/4; NE 1/4 NE 1/4, Section 27; Section 28 except SE 1/4 SE 1/4; Sections 29–32; Section 33 except NE 1/4, E 1/2 NW 1/4; W 1/2 SW 1/4 Section 34.

T. 11N., R.04E. Humboldt Meridian: Sections 1–30, Section 31 except SW 1/4, S 1/2 NW 1/4; Sections 32–36.

T. 10N., R.05E. Humboldt Meridian: W 1/2 SW 1/4 Section 2; Section 3 except NE 1/4, Sections 4–9, Section 10 except S 1/2, SW 1/4 NW 1/4; N 1/2 NW 1/4 Section 11; Section 16 except SE 1/4, SE 1/4 SW 1/4; Section 17–18; Section 19 except SE 1/4, SE 1/4 SW 1/4, SE 1/4 NE 1/4; N 1/2 NW 1/4 Section 20; W 1/2 W 1/2, SE 1/4 SW 1/4 Section 30.

T. 10N., R.04E. Humboldt Meridian: Sections 1–3; Sections 10–15; Sections 22–27.



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Map and description of CA–01-d taken from United States Fish and Wildlife Service 1:100,000 map; Happy Camp California; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.17N., R.03E. Humboldt Meridian: NE 1/4, E 1/2 SE 1/4 Section 24; E 1/2 NE 1/4, SE 1/4, Section 25; N 1/2, E 1/2 SE 1/4 Section 36.

T.16N., R.03E. Humboldt Meridian: S 1/2 SW 1/4, SE 1/4, NE 1/4 SW 1/4 Section 1; E 1/2 E 1/2 Section 11; Section 12; Section 13 except W 1/2 SW 1/4, SW 1/4 NW 1/4; NE 1/4, E 1/2 NW 1/4, E 1/2 SE 1/4 Section 24; SE 1/4, SE 1/4 NE 1/4 Section 25; Section 36 except SW 1/4, NW 1/4 NW 1/4, W 1/2 SE 1/4.

T.15N., R.07E. Humboldt Meridian: SW 1/4 NW 1/4, NW 1/4 SW 1/4 Section 7.

T.15N., R.06E. Humboldt Meridian: NW 1/4 Section 13.

T.15N., R.03E. Humboldt Meridian: E 1/2 E 1/2 Section 1; E 1/2, SE 1/4 Section 12.

T.14N., R.06E. Humboldt Meridian: N 1/2 NW 1/4, SW 1/4 NW 1/4, W 1/2 SE 1/4 Section 4; Section 5; Section 8; SW 1/4, S 1/2 NW 1/4, NW 1/4 NW 1/4 Section 9; W 1/2 Section 16; Section 17; N 1/2 Section 20; Section 21 except S 1/2 SW 1/4, N 1/2 NE 1/4 Section 21.

Description of Lands Using Protracted Public Land Survey Lines

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.18N., R.04E. Humboldt Meridian: SE 1/4 SW 1/4, SW 1/4 SE 1/4 Section 33; E 1/2 SE 1/4 Section 35; SW 1/4, SW 1/4 SE 1/4, S 1/2 NW 1/4 Section 36.

T.17N., R.06E. Humboldt Meridian: S 1/2 SW 1/4, SW 1/4 SE 1/4 Section 14; S 1/2 SW 1/4, NE 1/4 SE 1/4 Section 15; S 1/2 SE 1/4 Section 16; E 1/2 Section 21; Section 22; Section 23 except NE 1/4 NE 1/4; W 1/2 SW 1/4 Section 24; Section 26 except E 1/2 SE 1/4; Section 27 except SW 1/4, W 1/2 SE 1/4, SE 1/4 NW 1/4; NE 1/4 NE 1/4 Section 28.

T.17N., R.05E. Humboldt Meridian: SW 1/4, SW 1/4 NW 1/4 Section 4; Section 5 except N 1/2 N 1/2, SW 1/4 NW 1/4; Section 6 except NE 1/4; Section 7 except S 1/2 SE 1/4, SW 1/4 SE 1/4; Section 8 except SE 1/4 SE 1/4; W 1/2 NW 1/4 Section 9.

T.17N., R.04E. Humboldt Meridian: Section 1 except SW 1/4, SW 1/4 NW 1/4; Section 2 except NE 1/4 NE 1/4, N 1/2 NW 1/4, E 1/2 SE 1/4; Section 3 except N 1/2 N 1/2; Section 4; SE 1/4 NE 1/4, SE 1/4 Section 5; Section 8 except NW 1/4; Sections 9–10; NE 1/4, NW 1/4, NW 1/4 SW 1/4 Section 11; NE 1/4 Section 12; Sections 16–17; W 1/2, W 1/2 E 1/2 Section 20; SE 1/4, NE 1/4 SW 1/4 Section 21; S 1/2, S 1/2 N 1/2 Section 22; S 1/2, S 1/2 N 1/2 Section 23; W 1/2 SW 1/4 Section 24; W 1/2 NW 1/4, NW 1/4 SW 1/4 Section 25; Section 26; Section 27 except SW 1/4; NE 1/4, SW 1/4, SW 1/4 SE 1/4 Section 28; Section 29 except E 1/2 NE 1/4; SW 1/4, W 1/2 SE 1/4 Section 32; Section 33; N 1/2 NE 1/4, SW 1/4, SE 1/4 Section 34; N 1/2, N 1/2 SE 1/4, SW 1/4 SW 1/4 Section 35.

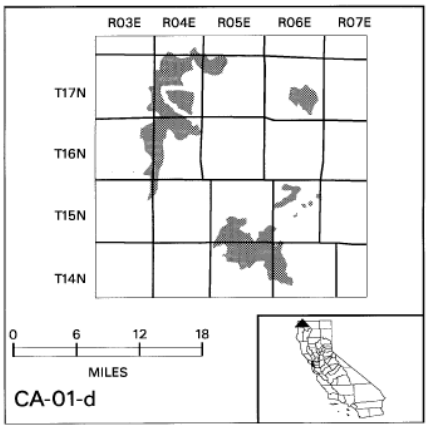
T.16N., R.04E. Humboldt Meridian: S 1/2 SW 1/4, W 1/2 SE 1/4 Section 1; Section 2 except NE 1/4; Sections 3–4; Section 5 except N 1/2 NW 1/4; Section 8; W 1/2 W 1/2, NE 1/4 NE 1/4 Section 9; Section 10 except W 1/2 SW 1/4; Section 11 except SE 1/4, S 1/2 SW 1/4; S 1/2 Section 12; E 1/2 E 1/2 Section 17; E 1/2 E 1/2 Section 20; Section 29 except SE 1/4, E 1/2 NE 1/4; W 1/2 Section 32.

T.15N., R.06E. Humboldt Meridian: W 1/2 SW 1/4 Section 2; S 1/2 Section 3; N 1/2, E 1/2 Section 4; SE 1/4 Section 9; Section 10 except W 1/2 NW 1/4, E 1/2 SE 1/4, S 1/2 NW 1/4 Section 11; NE 1/4 SE 1/4, SE 1/4 NE 1/4 Section 12; NW 1/4 Section 13; SE 1/4 NW 1/4, SW 1/4 NE 1/4 Section 14; N 1/2 NW 1/4 Section 15; NW 1/4, N 1/2 SW 1/4, NW 1/4 NE 1/4 Section 16; NE 1/4 NE 1/4, N 1/2 SE 1/4, NE 1/4, SE 1/4 NW 1/4 Section 17; SW 1/4, S 1/2 NW 1/4, NW 1/4 SE 1/4 Section 29; S 1/2 SW 1/4 Section 30.

T.15N., R.05E. Humboldt Meridian: SE 1/4 Section 20; S 1/2 Section 21; S 1/2 SW 1/4 Section 22; S 1/2 NE 1/4, NE 1/4 SW 1/4, SE 1/4 Section 25; NW 1/4 Section 27; Section 28 except E 1/2 SE 1/4; NW 1/4, NW 1/4 SW 1/4 Section 29; SE 1/4 SE 1/4 Section 30; E 1/2 NE 1/4, SE 1/4 Section 31; Sections 32–33; Section 34 except N 1/2 N 1/2, E 1/2 NE 1/4 Section 34; E 1/2, SW 1/4 SW 1/4, E 1/2 SW 1/4 Section 35; Section 36.

T.15N., R.04E. Humboldt Meridian: W 1/2 Section 6; W 1/2 NW 1/4 Section 7.

T.14N., R.05E. Humboldt Meridian: Sections 1–4; E 1/2 SE 1/4, NE 1/4, N 1/2 NW 1/4 Section 5; NE 1/4, E 1/2 NW 1/4 Section 6; NE 1/4, NE 1/4 NW 1/4, N 1/2 SE 1/4 Section 8; Section 9 except S 1/2 SW 1/4, SW 1/4 SE 1/4; Section 10; Section 11 except S 1/2 SE 1/4, SE 1/4 SW 1/4; Section 12 except W 1/2 SW 1/4; W 1/2, NE 1/4 NW 1/4 Section 13; N 1/2 NE 1/4, NW 1/4 Section 15; NE 1/4 Section 24.



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Map and description of CA–01–e taken from United States Fish and Wildlife Service 1:100,000 map; Grants Pass, Oregon; Happy Camp, California; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.41S., R.07W. Willamette Meridian: S 1/2 SW 1/4, NW 1/4 SW 1/4 Section 6; N 1/2 NW 1/4, SW 1/4 NW 1/4 Section 7; SE 1/4, S 1/2 NE 1/4 Section 8; S 1/2 SE 1/4, W 1/2 Section 9; Section 16; E 1/2 E 1/2 Section 17.

T.41S., R.08W. Willamette Meridian: Section 1 except SE 1/4 NW 1/4, W 1/2 SW 1/4; Section 2 except SE 1/4 SE 1/4; Section 4; Section 9 except W 1/2 W 1/2; Section 11 except NE 1/4 NE 1/4; Section 12 except E 1/2 SE 1/4; Section 13 except NE 1/4; Sections 14–16; E 1/2 SE 1/4, SE 1/4 NE 1/4 Section 17.

T.19N., R.06E. Humboldt Meridian: E 1/2 SE 1/4, SW 1/4 SE 1/4 Section 31; Section 32 except NW 1/4 NW 1/4; NW 1/4, W 1/2 NE 1/4, N 1/2 SW 1/4 Section 33.

T.19N., R.05E. Humboldt Meridian: Section 32 except S 1/2 SW 1/4; Section 33; Section 34 except E 1/2 SE 1/4; Section 35 except S 1/2 SW 1/4; W 1/2 NW 1/4 Section 36.

T.19N., R.04E. Humboldt Meridian: Sections 32–34; SW 1/4 SW 1/4 Section 35.

T.18N., R.05E. Humboldt Meridian: Section 5 except NW 1/4, W 1/2 NE 1/4; SE 1/4, E 1/2 SW 1/4 Section 6; Section 7 except S 1/2 S 1/2, NW 1/4 SW 1/4; Sections 16–17; SE 1/4, S 1/2 N 1/2, NW 1/4 NW 1/4, Section 18; N 1/2 Section 19.

T.18N., R.04E. Humboldt Meridian: W 1/2 NW 1/4 Section 2; Section 3 except SE 1/4 SE 1/4, Section 4; N 1/2 N 1/2, SW 1/4 NE 1/4 Section 9.

T.18N., R.03E. Humboldt Meridian: Section 1; SE 1/4, E 1/2 NE 1/4, NE 1/4 NE 1/4, SE 1/4 SW 1/4 Section 2; SE 1/4 SE 1/4 Section 10; Section 11 except NW 1/4 NW 1/4; NW 1/4 NE 1/4, NE 1/4 NW 1/4 Section 12; W 1/2 NW 1/4 Section 14; E 1/2, E 1/2 SW 1/4 Section 15; W 1/2, NW 1/4 SE 1/4, N 1/2 NE 1/4, SW 1/4 NE 1/4 Section 22; W 1/2 Section 27; SE 1/4, S 1/2 NE 1/4, NE 1/4 NE 1/4, E 1/2 SW 1/4 Section 28; E 1/2 SE 1/4, SE 1/4 NE 1/4 Section 32; Section 33; W 1/2 Section 34.

T.17N., R.03E. Humboldt Meridian: NW 1/4, NW 1/4 SW 1/4 Section 3; Section 4 except S 1/2 S 1/2, NW 1/4 SW 1/4; NE 1/4 NE 1/4 Section 5.

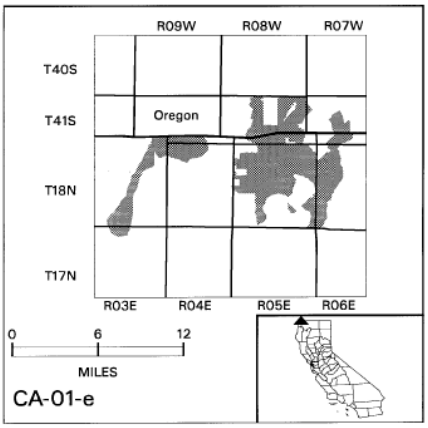
Description of Lands Using Protracted Public Land Survey Lines

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.18N., R.06E. Humboldt Meridian: Section 5 except E 1/2 E 1/2; E 1/2 NE 1/4; SE 1/4 SW 1/4, SE 1/4 Section 6; Section 7; Section 8 except E 1/2 NE 1/4; Section 17 except E 1/2 SE 1/4; Sections 18–19; W 1/2 NW 1/4, NE 1/4 NW 1/4, W 1/2 SW 1/4 Section 20; Section 30 except E 1/2 SE 1/4, SE 1/4 NE 1/4; Section 31 except E 1/2 E 1/2, SW 1/4 SE 1/4.

T.18N., R.05E. Humboldt Meridian: Section 1 except N 1/2 NE 1/4; Sections 2–4; Sections 8–12; Section 13 except SW 1/4, SW 1/4 NW 1/4, SW 1/4 SE 1/4; Section 14 except SE 1/4, S 1/2 NE 1/4; Section 15; Section 20 except SW 1/4; Section 21 except S 1/2 SE 1/4; Section 22 except SW 1/4 SE 1/4, S 1/2 SW 1/4; NW 1/4, NW 1/4 SW 1/4, SW 1/4 SW 1/4 Section 23; S 1/2 SE 1/4, NE 1/4 SE 1/4, E 1/2 NE 1/4 Section 24; Section 25 except S 1/2 SW 1/4, NW 1/4 NW 1/4; W 1/2 SW 1/4, NW 1/4, SE 1/4 SW 1/4 Section 28; E 1/2 Section 29; E 1/2 Section 32; NW 1/4, N 1/2 SW 1/4 Section 33; E 1/2, SE 1/4 SW 1/4 Section 36.

T.18N., R.04E. Humboldt Meridian: Section 5; N 1/2 N 1/2 Section 8.



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Map and description of CA–02–a taken from United States Fish and Wildlife Service 1:100,000 map; Crescent City, California; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.14N., R.01E. Humboldt Meridian: S 1/2 NE 1/4, S 1/2, SE 1/4 NW 1/4 Section 21; W 1/2 SW 1/4, SE 1/4 SW 1/4 Section 22; NW 1/4, NW 1/4, NW 1/4 SW 1/4 Section 27; Section 28 except W 1/2 SW 1/4, SE 1/4 SW 1/4, S 1/2 SE 1/4.

T.17N., R.01E. Humboldt Meridian: SW 1/4 SW 1/4 Section 21; W 1/2 NW 1/4, NW 1/4 SW 1/4 Section 28; E 1/2 NE 1/4 Section 29.

Critical Habitat includes only State lands described within the following areas:

T.14N., R.01W. Humboldt Meridian: Section 1 above Mean High Water (MHW).

T.14N., R.01E. Humboldt Meridian: W 1/2 Section 6; W 1/2 Section 7; Sections 18–19 above MHW.

T.15N., R.01E. Humboldt Meridian: S 1/2 Section 7; W 1/2 Section 8; NW 1/4, W 1/2 NE 1/4 Section 17; Sections 18–19; W 1/2, N 1/2 NE 1/4 Section 30; W 1/2 Section 31.

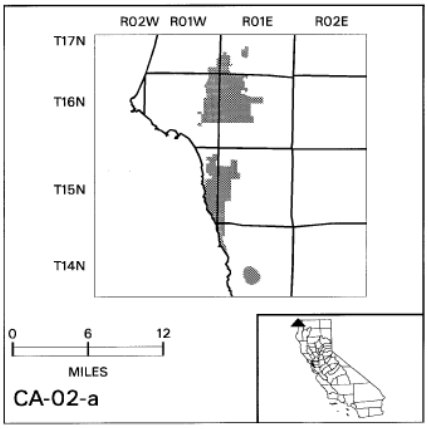
T.15N., R.01W. Humboldt Meridian: SE 1/4, S 1/2 SW 1/4 Section 1; Section 12 except W 1/2 NE 1/4; S 1/2, NE 1/4, NE 1/4 NW 1/4 Section 13; Section 23 above MHW, Section 24, Sections 25–26 above MHW; Section 36 above MHW.

T.16N., R.01E. Humboldt Meridian: NW 1/4 Section 4; Sections 5–7; Section 8 except NE 1/4 SE 1/4; SW 1/4 NW 1/4 NW 1/4 SW 1/4 Section 9; NW 1/4 Section 15; W 1/2, NE 1/4 Section 16; Sections 17–20; W 1/2, W 1/2 SE 1/4 Section 21.

T.16N., R.01W. Humboldt Meridian: Section 1; SE 1/4 SE 1/4 Section 2; E 1/2 NE 1/4 Section 11; Sections 12–13; E 1/2 E 1/2 Section 14; SE 1/4, E 1/2 NE 1/4, SW 1/4 NE 1/4, S 1/2 NW 1/4 Section 23; Section 24.

T.17N., R.01E. Humboldt Meridian: SW 1/4, W 1/2 SE 1/4 Section 30, Section 31 except E 1/2 NE 1/4, NE 1/4 SE 1/4.

T.17N., R.01W. Humboldt Meridian: SE 1/4 SE 1/4 Section 25; S 1/2, E 1/2 NE 1/4 Section 36.



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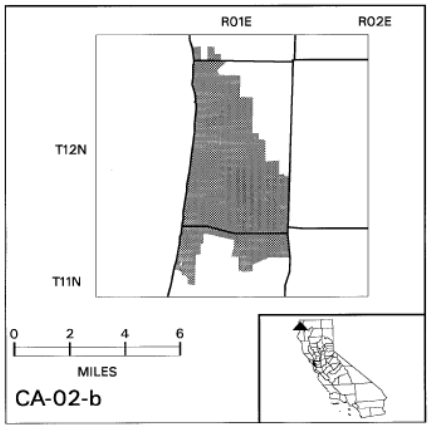
Map and description of CA–02–b taken from United States Fish and Wildlife Service 1:100,000 map; Orick and Hoopa, California; 1995.

Critical Habitat includes only State lands described within the following areas:

T.11N., R.01E. Humboldt Meridian: Sections 1–2 N 1/2 N 1/2 Section 3; Section 4 except E 1/2 SE 1/4; Section 9 except E 1/2 E 1/2, SW 1/4 SW 1/4; N 1/2 NE 1/4, SW 1/4 NE 1/4, E 1/2 NW 1/4 Section 11; NW 1/4 NW 1/4 Section 12.

T.12N., R.01E. Humboldt Meridian: W 1/2 NW 1/4, NE 1/4 NW 1/4, S 1/2 Section 3; Section 4 above MHW; Section 9 above MHW; Section 10 except SE 1/4 NW 1/4; S 1/2 NW 1/4, SW 1/4 Section 11; W 1/2, NW 1/4 SE 1/4, S 1/2 SE 1/4 Section 14; Section 15; Section 16 above MHW; Section 21 above MHW; Sections 22–23; SW 1/4 Section 24; Sections 25–27; Section 28 above MHW; Section 33 above MHW; Section 34–36.

T.13N., R.01E. Humboldt Meridian: SW 1/4, E 1/2 SE 1/4 Section 33; SW 1/4 SW 1/4 Section 34.



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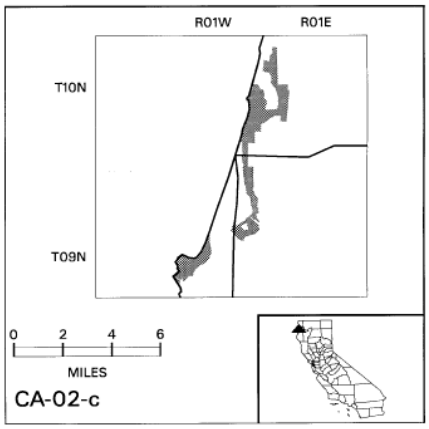
Map and description of CA–02–c taken from United States Fish and Wildlife Service 1:100,000 map; Orick, California; 1995.

Critical Habitat includes only State lands described within the following areas:

T.09N., R.01W. Humboldt Meridian: Section 23 above Mean High Water (MHW); Section 26 except SE 1/4, SE 1/4 SW 1/4; Section 27 above MHW; NE 1/4 Section 34; NW 1/4 NW 1/4 Section 35.

T.09N., R.01E. Humboldt Meridian: E 1/2 NW 1/4, E 1/2 SW 1/4, W 1/2 SE 1/4 Section 6; W 1/2 NE 1/4, E 1/2 NW 1/4, W 1/2 SE 1/4, SE 1/4 SE 1/4 Section 7; E 1/2 NE 1/4, NE 1/4 SE 1/4 Section 18.

T.10N., R.01E. Humboldt Meridian: SW 1/4 SE 1/4, SE 1/4 SW 1/4 Section 8; W 1/2 Section 17; Section 19 above MHW; E 1/2 W 1/2 W 1/2 Section 20; Section 29 except SE 1/4, SW 1/4 NE 1/4, E 1/2 SW 1/4, SW 1/4 SW 1/4; Section 30 above MHW; W 1/2, N 1/2 NE 1/4, E 1/2 SW 1/4, SE 1/4 NW 1/4 Section 31.



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Map and description of CA–03-a taken from United States Fish and Wildlife Service 1:100,000 map; Eureka and Hayfork, California; 1995.

Critical Habitat includes only Private lands described within the following areas:

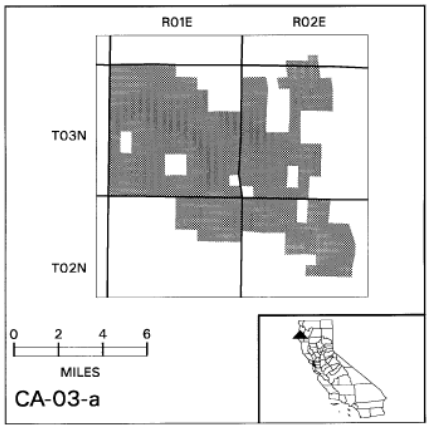
T.02N., R.01E. Humboldt Meridian: Section 1–3; N 1/2 Section 10; Section 11–12.

T.02N., R.02E. Humboldt Meridian: Section 3; W 1/2 Section 4; Section 5–6; N 1/2 Section 7; N 1/2 Section 8; Section 9–11; Section 14; Section 15 except SW 1/4; N 1/2 Section 16; N 1/2 Section 22; N 1/2 Section 23.

T.03N., R.01E. Humboldt Meridian: S 1/2 Section 3; Section 4–10; W 1/2 Section 11; Section 13–18; W 1/2 Section 19; Section 20–26; E 1/2 Section 27; W 1/2 Section 28; Section 29–35; Section 36 except NE 1/4.

T.03N., R.02E. Humboldt Meridian: Section 3 except NE 1/4; Section 4; SE 1/4 Section 5; S 1/2 Section 6; Section 7; Section 9; Section 10; W 1/2 Section 16; Section 18–20; Section 21 except NE 1/4; SW 1/4 Section 22; W 1/2 Section 27; Section 28 except SW 1/4; Section 29–30; Section 31 except SW 1/4; Section 32; Section 33 except NW 1/4.

T.04N., R.02E. Humboldt Meridian: S 1/2 S 1/2 Section 33; SW 1/4 Section 34.



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Map and description of CA–04-a taken from United States Fish and Wildlife Service 1:100,000 map; Cape Mendocino and Garberville, California; 1995.

Critical Habitat includes only State lands described within the following areas:

T.01N., R.01E. Humboldt Meridian: SW 1/4 Section 23; S 1/2 Section 24; SW 1/4 NW 1/4, N 1/2 N 1/2 Section 25; NE 1/4, E 1/2 NW 1/4 Section 26.

T.01N., R.02E. Humboldt Meridian: E 1/2 NE 1/4, NE 1/4 SE 1/4 Section 11; NW 1/4 Section 12; S 1/2 Section 19; W 1/2 W 1/2 Section 29; N 1/2, N 1/2 SE 1/4, NE 1/4 SW 1/4 Section 30; NW 1/4 NW 1/4, S 1/2 SE 1/4, E 1/2 SW 1/4 Section 32.

T.01S., R.01E. Humboldt Meridian: S 1/2 S 1/2 Section 13; S 1/2 NW 1/4, S 1/2 Section 14; E 1/2 SE 1/4 Section 15; E 1/2 E 1/2, SW 1/4 SE 1/4 Section 22; Sections 23–27; Section 28 except W 1/2 NW 1/4; Section 33 except SW 1/4 NW 1/4, SW 1/4; Sections 34–36.

T.01S., R.02E. Humboldt Meridian: S 1/2 NW 1/4, NW 1/4 SW 1/4, S 1/2 SW 1/4, SW 1/4 SE 1/4 Section 3; Section 4 except SW 1/4 NW 1/4; NE 1/4 NE 1/4 Section 9; NW 1/4, W 1/2 NE 1/4, E 1/2 SE 1/4 Section 10; SW 1/4 SW 1/4 Section 11; W 1/2 Section 14; SE 1/4, SW 1/4 SW 1/4 Section 15; S 1/2 NW 1/4, SW 1/4, S 1/2 SE 1/4 Section 16; S 1/2, SE 1/4 NE 1/4 Section 17; S 1/2 S 1/2 Section 18; Sections 19–22; W 1/2 Section 23; W 1/2, SW 1/4 SE 1/4 Section 26; Sections 27–34; W 1/2 NW 1/4, SE 1/4 NW 1/4, N 1/2 SW 1/4, SW 1/4 SW 1/4, SW 1/4 NE 1/4, S 1/2 SE 1/4, NW 1/4 SE 1/4 Section 35.

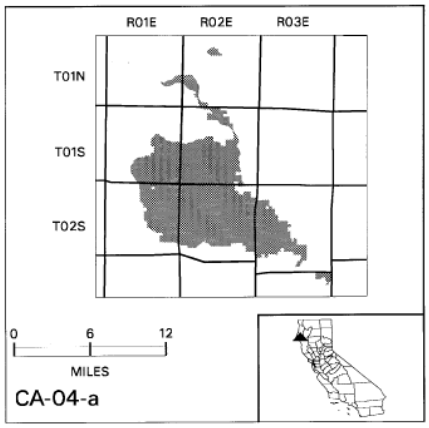
T.02S., R.01E. Humboldt Meridian: Sections 1–3; E 1/2 E 1/2 Section 4; E 1/2 E 1/2 Section 9; Sections 10–14; Section 15 except W 1/2 SW 1/4, SW 1/4 NW 1/4; Section 22 except SW 1/4, W 1/2 NW 1/4; Sections 23–25; Section 26 except, SW 1/4, S 1/2 NW 1/4, SW 1/4 NE 1/4.

T.02S., R.02E. Humboldt Meridian: SW 1/4 Section 1; Section 2 except NE 1/4, E 1/2 NW 1/4, NE 1/4 SE 1/4; Sections 3–24; Section 25 except SW 1/4 SW 1/4; N 1/2 Section 26; Section 27 except S 1/2 S 1/2; Section 28 except S 1/2 S 1/2, NW 1/4 SW 1/4; Section 29 except NE 1/4 SE 1/4, S 1/2 SE 1/4; Section 30 except S 1/2 SW 1/4; NE 1/4 NW 1/4, N 1/2 NE 1/4 Section 36.

T.02S., R.03E. Humboldt Meridian: Section 7 except N 1/2; SW 1/4 SW 1/4 Section 8; Section 17 except NE 1/4, E 1/2 SE 1/4; Sections 18–20; Section 21 except NW 1/4 NE 1/4, SE 1/4 NE 1/4, N 1/2 SE 1/4, SE 1/4 SE 1/4; S 1/2 S 1/2, NW 1/4 SW 1/4, SW 1/4 NW 1/4 Section 27; Section 28 except NE 1/4 NE 1/4; Section 29 except W 1/2 NW 1/4; Section 30 except SE 1/4 NE 1/4, NE 1/4 SE 1/4; Section 31 except S 1/2 S 1/2, NW 1/4 SE 1/4; Section 32 except SE 1/4 NE 1/4, S 1/2; N 1/2 NE 1/4, NE 1/4 NW 1/4 Section 33; E 1/2, NW 1/4 Section 34; SE 1/4 NW 1/4, NW 1/4 NW 1/4 Section 35.

T.03S., R.03E. Humboldt Meridian: NW 1/4 Section 3; E 1/2 NE 1/4 Section 11; N 1/2, NW 1/4 SW 1/4, SE 1/4 Section 12; SE 1/4 SE 1/4, Section 13.

T.03S., R.04E. Humboldt Meridian: SW 1/4 SW 1/4 Section 18; NW 1/4, NW 1/4 SW 1/4 Section 30.



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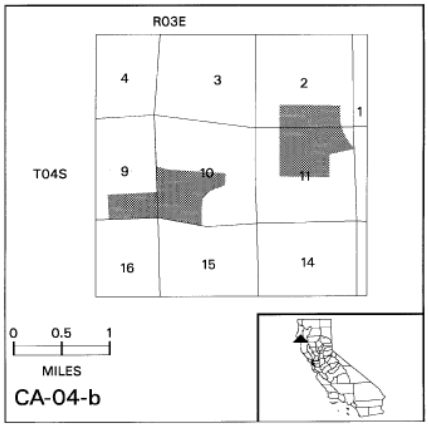
Map and description of CA–04–b taken from United States Fish and Wildlife Service 1:100,000 map; Garberville, California; 1995.

Critical Habitat includes only State lands described within the following areas:

T.04S., R.03E. Humboldt Meridian: SE 1/4 SW 1/4, S 1/2 SE 1/4 Section 2; S 1/2 SE 1/4 Section 9; SW 1/4, NW 1/4 SE 1/4 Section 10; E 1/2 NW 1/4, SW 1/4 NE 1/4, N 1/2 NE 1/4 Section 11.



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Map and description of CA–05–a taken from United States Fish and Wildlife Service 1:100,000 map; Cape Mendocino, Garberville and Covelo, California; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.02S., R.02E. Humboldt Meridian: SE 1/4 SE 1/4 Section 31; S 1/2 SW 1/4, SW 1/4 SE 1/4 Section 32.

T.03S., R.02W. Humboldt Meridian: SE 1/4 NW 1/4, E 1/2 SW 1/4, S 1/2 SE 1/4, NW 1/4 SE 1/4 Section 12; Sections 13–14; Section 15–16 East of Mean High Water (MHW); Section 22–23 East of MHW; Section 24 except SE 1/4; N 1/2 NE 1/4 Section 26 East of MHW.

T.03S., R.01W. Humboldt Meridian: SW 1/4 SW 1/4 Section 9; NE 1/4 SE 1/4 Section 10; S 1/2, SE 1/4 NE 1/4 Section 11; SW 1/4 NW 1/4, S 1/2 Section 12; Sections 13–18; N 1/2 NW 1/4, SW 1/4 NW 1/4 Section 19; N 1/2 NW 1/4, SE 1/4 NW 1/4, NE 1/4, N 1/2 SE 1/4, Section 20; Sections 21–26; N 1/2, E 1/2 SE 1/4 Section 27; N 1/2 NE 1/4 Section 28; NE 1/4 NW 1/4, NW 1/4 NE 1/4 Section 35; N 1/2 NW 1/4, NE 1/4, E 1/2 SW 1/4 Section 36.

T.03S., R.01E. Humboldt Meridian: N 1/2 SE 1/4, SE 1/4 SE 1/4, NE 1/4 SW 1/4 Section 12; N 1/2 SE 1/4, SE 1/4 SE 1/4, SE 1/4 NE 1/4 Section 13; SW 1/4 NW 1/4, W 1/2 SW 1/4 Section 18; W 1/2 NW 1/4, SW 1/4, W 1/2 SE 1/4 Section 19; SE 1/4 NE 1/4, NE 1/4 SE 1/4 Section 24; W 1/2 SW 1/4 Section 29; Section 30 except NE 1/4 NE 1/4; Section 31; W 1/2 W 1/2, NE 1/4 NW 1/4, NE 1/4 SW 1/4 Section 32.

T.03S., R.02E. Humboldt Meridian: W 1/2 SW 1/4, NW 1/4, SE 1/4 NE 1/4, SW 1/4 SE 1/4 Section 5; E 1/2 SE 1/4, SW 1/4 SE 1/4 Section 6; Section 7 except SW 1/4 NW 1/4, SE 1/4 SE 1/4; W 1/2 W 1/2, SE 1/4 NW 1/4, SW 1/4, W 1/2 NE 1/4, W 1/2 SE 1/4, SE 1/4 SE 1/4 Section 8; S 1/2 SW 1/4 Section 9; E 1/2 SW 1/4 Section 18; NE 1/4 NW 1/4, SE 1/4 SW 1/4, SW 1/4 SE 1/4 Section 19; SE 1/4 NE 1/4 Section 20; NW 1/4 NE 1/4 Section 22; NW 1/4 NW 1/4 Section 28; NW 1/4 NE 1/4 Section 30.

T.04S., R.01W. Humboldt Meridian: S 1/2 S 1/2, Section 1; SE 1/4 SE 1/4 Section 2; SE 1/4 SE 1/4 Section 10; S 1/2, NE 1/4 Section 11; N 1/2, W 1/2 SW 1/4 Section 12; Section 14 east of MHW.

T.04S., R.01E. Humboldt Meridian: SW 1/4, W 1/2 SE 1/4, SE 1/4 SE 1/4, S 1/2 NE 1/4 Section 4; Section 5; Section 6 except S 1/2 SW 1/4; NE 1/4, E 1/2 NW 1/4, NE 1/4 SE 1/4 Section 7; N 1/2 Section 8; Section 9 except N 1/2 NW 1/4, NE 1/4 NE 1/4; S 1/2, E 1/2 NE 1/4 Section 10; SW 1/4, SW 1/4 NW 1/4 Section 11; Section 15; Section 16 except SW 1/4 SW 1/4; S 1/2 SW 1/4 Section 20; E 1/2, S 1/2 SW 1/4 Section 21; Sections 22–23; S 1/2 NW 1/4, NW 1/4 NW 1/4, SW 1/4 Section 24; W 1/2 Section 25; Section 26–27; Section 28 except NW 1/4 NW 1/4; N 1/2, SE 1/4 SE 1/4 Section 29; N 1/2 N 1/2 Section 33; E 1/2 Section 34; Section 35; W 1/2 Section 36.

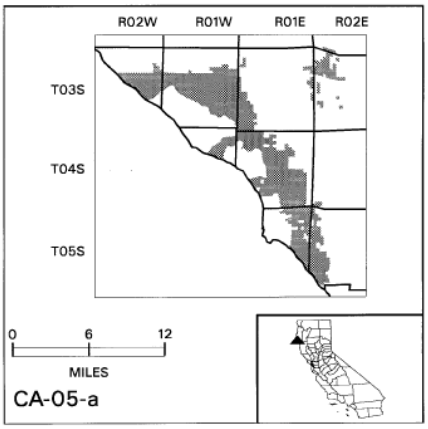
T.04S., R.02E. Humboldt Meridian: S 1/2 SW 1/4, NE 1/4 SW 1/4, NW 1/4 SE 1/4 Section 31.

T.05S., R.01E. Humboldt Meridian: Section 1; Section 2 except N 1/2 SW 1/4; E 1/2 NE 1/4, SW 1/4 NE 1/4 Section 3; NE 1/4, S 1/2 SE 1/4, NE 1/4 NW 1/4 Section 11; Section 12 except N 1/2 NW 1/4, NE 1/4 SW 1/4; Section 13 except W 1/2 NE 1/4, SE 1/4 NE 1/4, NE 1/4 SE 1/4; E 1/2 Section 14; Section 23 East of MHW; Section 24; Section 25 East of MHW.

Description of Lands Using Protracted Public Land Survey Lines

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.05S., R.02E. Humboldt Meridian: Western 1/2 of the Western 1/2 of the Township T.05S., R.02E.



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Map and description of CA–05–b taken from United States Fish and Wildlife Service 1:100,000 map; Covelo, California; 1995.

Critical Habitat includes only State lands described within the following areas:

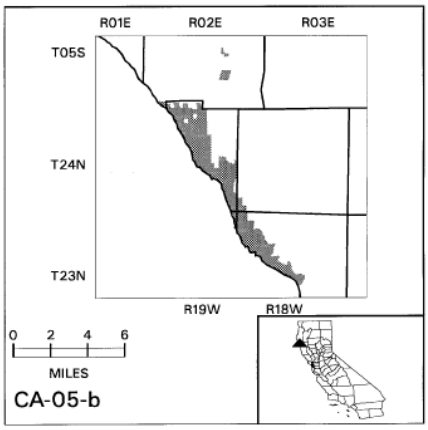
T.24N., R.19W. Mt. Diablo Meridian: W 1/2 W 1/2 Section 2; Section 3 except E 1/2 NW 1/4; Section 4 except NE 1/4 NE 1/4; Section 5; Section 9 above MHW; Section 10; W 1/2 W 1/2, SE 1/4 SW 1/4 Section 11; W 1/2 Section 14; Section 15 above MHW; Section 22 above MHW; Section 23 except NE 1/4, NE 1/4 SE 1/4; Section 24 except NE 1/4 NW 1/4, N 1/2 NE 1/4; Section 25 except SW 1/4 SW 1/4; Section 26 above MHW; Section 36 above MHW.

T.24N., R.18W. Mt. Diablo Meridian: SW 1/4 NW 1/4, SE 1/4 SW 1/4, W 1/2 SW 1/4 Section 31.

T.23N., R.19W. Mt. Diablo Meridian: Section 1 above MHW.

T.23N., R.18W. Mt. Diablo Meridian: Section 5; Section 6 except E 1/2 NE 1/4 ; Section 7 above MHW; Section 8 except N 1/2 NE 1/4, SE 1/4 NE 1/4, NE 1/4 SE 1/4; W 1/2 SW 1/4, S 1/2 SE 1/4 Section 15; Section 16 except NE 1/4 NW 1/4, NE 1/4, Section 21 above MHW; N 1/2 Section 22.

T.05S., R.02E. Humboldt Meridian: NW 1/4 NW 1/4, SE 1/4 NW 1/4 Section 22; NE 1/4 Section 27.



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Map and description of CA–06–a taken from United States Fish and Wildlife Service 1:100,000 map; Garberville and Covelo, California; 1995.

Critical Habitat includes only State lands described within the following areas:

T.05S., R.03E. Humboldt Meridian: SE 1/4 SE 1/4 Section 10; SW 1/4 SW 1/4 Section 11; Section 13 except NE 1/4; Section 14 except NW 1/4 NE 1/4; Section 15 except SW 1/4; NW 1/4 NE 1/4, NE 1/4 NW 1/4 Section 24.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.24N., R.15W. Mt. Diablo Meridian: SW 1/4 NW 1/4, W 1/2 SE 1/4, SW 1/4 Section 4; Section 5 except W 1/2 SW 1/4; S 1/2 NE 1/4 Section 6.

T.24N., R.16W. Mt. Diablo Meridian: N 1/2 NE 1/4, NE 1/4 NW 1/4 Section 3; W 1/2 NW 1/4, NW 1/4 SE 1/4, NE 1/4 NW 1/4, S 1/2 SE 1/4, Section 5; SE 1/4 NE 1/4, N 1/2 NW 1/4, Section 6; W 1/2 SE 1/4 Section 7; SE 1/4 SW 1/4, W 1/2 SE 1/4, SE 1/4 SE 1/4 Section 9; S 1/2 SW 1/4 Section 10.

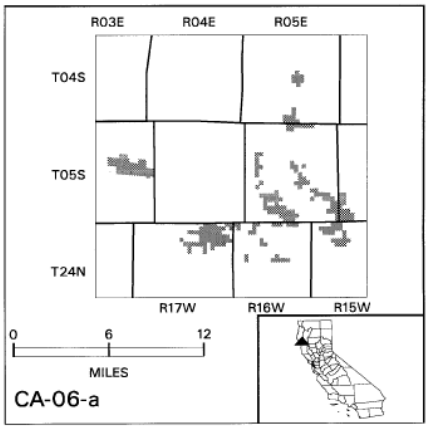
T.24N., R.17W. Mt. Diablo Meridian: Section 1 except S 1/2 NE 1/4, NW 1/4 NW 1/4, SE 1/4 SE 1/4; Section 2 except SE 1/4 SW 1/4; S 1/2 S 1/2, NE 1/4 SE 1/4, S 1/2 N 1/2, NE 1/4 NE 1/4 Section 3; SE 1/4 SE 1/4, NW 1/4 SE 1/4 Section 4; W 1/2 NW 1/4 Section 10; NW 1/4 NE 1/4, W 1/2 NW 1/4 Section 11.

T.05S., R.05E. Humboldt Meridian: N 1/2 NW 1/4 Section 2; N 1/2 N 1/2, SW 1/4 NW 1/4 Section 3; E 1/2 NE 1/4 Section 4; SE 1/4 SE 1/4 Section 7; SW 1/4 SW 1/4 Section 8; SW 1/4 NW 1/4, N 1/2 SW 1/4, SE 1/4 SW 1/4, NE 1/4 SE 1/4, Section 15; NW 1/4 SW 1/4 Section 17; E 1/2 E 1/2 Section 18; NE 1/4 NE 1/4, SE 1/4 SE 1/4 Section 19; NW 1/4 SW 1/4 Section 20; W 1/2 NE 1/4, SE 1/4 NW 1/4, NE 1/4 SW 1/4, N

1/2 SE 1/4, SW 1/4 SE 1/4 Section 22; NW 1/4 SW 1/4 Section 23; S 1/2 NW 1/4, N 1/2 SW 1/4, S 1/2 SE 1/4, NW 1/4 SE 1/4 Section 25; NE 1/4 NW 1/4, NE 1/4 SW 1/4, W 1/2 NE 1/4, SE 1/4 NE 1/4 Section 26; W 1/2 W 1/2, NE 1/4 SW 1/4 Section 28; S 1/2 N 1/2, E 1/2 SW 1/4, N 1/2 SE 1/4 Section 29; NE 1/4, NE 1/4 NW 1/4 Section 32; NW 1/4 NE 1/4, S 1/2 NE 1/4, NW 1/4, NE 1/4 SW 1/4, SE 1/4 Section 33; SW 1/4 NW 1/4, N 1/2 SW 1/4, SW 1/4 SW 1/4 Section 34; NE 1/4 NE 1/4 Section 36.

T.05S., R.06E. Humboldt Meridian: S 1/2 NW 1/4, SW 1/4 Section 30; Section 31 except NE 1/4 NW 1/4, N 1/2 NE 1/4, SE 1/4 NE 1/4.

T.04S., R.05E. Humboldt Meridian: SE 1/4 SW 1/4 Section 15; NW 1/4, W 1/2 NE 1/4, NE 1/4 SW 1/4 Section 22; SE 1/4 Section 33; W 1/2 W 1/2, SE 1/4 SW 1/4 Section 34.



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Map and description of CA–06–b taken from United States Fish and Wildlife Service 1:100,000 map; Covelo, California; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.21N., R.15W. Mt. Diablo Meridian: W 1/2 NW 1/4 Section 5; Sections 6–7; NW 1/4 NE 1/4, N 1/2 NW 1/4, SW 1/4 NW 1/4, N 1/2 S 1/2, SW 1/4 SW 1/4 Section 8; W 1/2 W 1/2, SE 1/4 SW 1/4, S 1/2 SE 1/4 Section 17; Section 18.

T.21N., R.16W. Mt. Diablo Meridian: Section 1; N 1/2 NE 1/4, NE 1/4 NW 1/4, SE 1/4 SE 1/4 Section 2; E 1/2 NE 1/4 Section 11; Section 12 except NW 1/4 SW 1/4 and S 1/2 SW 1/4; NE 1/4, NE 1/4 SE 1/4 Section 13.

T.22N., R.14W. Mt. Diablo Meridian: NW 1/4 SW 1/4, S 1/2 SW 1/4 Section 6; Section 7; Section 18 except E 1/2 SE 1/4; ; SE 1/4 SE 1/4 Section 20; SW 1/4 SW 1/4, NE 1/4 SE 1/4 Section 21; E 1/2 NE 1/4, W 1/2 NW 1/4, NE 1/4 SE 1/4 Section 28; NE 1/4, NE 1/4 NW 1/4, S 1/2 NW 1/4, SW 1/4, NW 1/4 SE 1/4 Section 29; S 1/2 NE 1/4, N 1/2 NW 1/4, N 1/2 SE 1/4 Section 32.

T.22N., R.15W. Mt. Diablo Meridian: SW 1/4 NE 1/4, S 1/2 Section 1; N 1/2 Section 12; E 1/2 Section 13; NE 1/4 SW 1/4, S 1/2 SW 1/4, W 1/2 SE 1/4 Section 19; NW 1/4 NE 1/4 Section 24; SW 1/4 NE 1/4, W 1/2 NW 1/4, SW 1/4, W 1/2 SE 1/4 Section 30; SW 1/4 NE 1/4, NW 1/4 NW 1/4, S 1/2 NW 1/4, S 1/2 Section 31.

T.22N., R.16W. Mt. Diablo Meridian: SW 1/4, SW 1/4 NW 1/4, W 1/2 W 1/2 Section 3; Section 4; Section 5 except S 1/2 SE 1/4, NE 1/4 SE 1/4, SE 1/4 NE 1/4; E 1/2, E 1/2 W 1/2, S 1/2 SW 1/4, NE 1/4 NW 1/4 Section 6; E 1/2 NE 1/4, N 1/2 NW 1/4, SE 1/4 SW 1/4, SE 1/4 Section 7; N 1/2 NE 1/4, E 1/2 W 1/2, S 1/2 SE 1/4, SW 1/4 SW 1/4 Section 8; Section 9 except N 1/2 NW 1/4 and SE 1/4 NW 1/4; SW 1/4 NE 1/4, W 1/2, NW 1/4 SE 1/4, S 1/2 SE 1/4 Section 10; W 1/2 Section 17; Section 18 except N 1/2 NW 1/4, W 1/2 SW 1/4; S 1/2 NE 1/4, NW 1/4 NE 1/4 Section 19; NW 1/4 SW 1/4 Section 20; SE 1/4 SE 1/4 Section 21; S 1/2 SW 1/4, SW 1/4 SE 1/4 Section 22; SE 1/4 SE 1/4 Section 23; Section 26; Section 27 except NE 1/4 NE 1/4, W 1/2 SW 1/4, S 1/2 SE 1/4, SE 1/4 SW 1/4; SE 1/4 Section 34; Section 35.

T.22N., R.17W. Mt. Diablo Meridian: NE 1/4 NE 1/4, SW 1/4 NE 1/4, SE 1/4 NW 1/4, NE 1/4 SW 1/4, W 1/2 SE 1/4 Section 12; S 1/2 SE 1/4 Section 13; N 1/2 NE 1/4 Section 24.

T.23N., R.16W. Mt. Diablo Meridian: W 1/2 NW 1/4 Section 3; NE 1/4 NE 1/4 Section 4; SE 1/4 SW 1/4, E 1/2 NE 1/4, NW 1/4 SE 1/4 Section 5; W 1/2 W 1/2 Section 6; Section 7 except NW 1/4; NE 1/4 NW 1/4, SW 1/4 NW 1/4, SW 1/4 SW 1/4 Section 8; W 1/2 Section 17; Section 18 except, N 1/2 NW 1/4, SW 1/4 NW 1/4, W 1/2 SW 1/4, SE 1/4 SW 1/4; S 1/2 SE 1/4, S 1/2 SW 1/4, NE 1/4 SE 1/4 Section 19; S 1/2 SW 1/4, NE 1/4 SW 1/4, N 1/2 SE 1/4, SE 1/4 SE 1/4 Section 20; NW 1/4 NW 1/4, S 1/2 NW 1/4, SW 1/4, SW 1/4 SE 1/4 Section 28; Section 29; Section 30 except NW 1/4 NW 1/4; Section 31 except SW 1/4 SW 1/4; Section 32 except SE 1/4 NE 1/4, SW 1/4 SE 1/4, E 1/2 SE 1/4; Section 33 except NE 1/4 NE 1/4, S 1/2 NW 1/4; S 1/2 NW 1/4, N 1/2 SW 1/4 Section 34.

T.23N., R.17W. Mt. Diablo Meridian: Section 1 except S 1/2 SW 1/4; NE 1/4 SE 1/4 Section 2.

T.24N., R.16W. Mt. Diablo Meridian: SE 1/4 NE 1/4, SE 1/4 NW 1/4, NW 1/4 SW 1/4, SE 1/4 SW 1/4, NE 1/4 SE 1/4 Section 17; W 1/2 SE 1/4, E 1/2 SW 1/4 Section 18; Section 19 except SW 1/4 SE 1/4; W 1/2 NE 1/4, E 1/2 NW 1/4 Section 20; S 1/2 NW 1/4, SW 1/4 Section 27; Section 28 except N 1/2 N 1/2 and SE 1/4 SW 1/4; Section 29 except N 1/2 NE 1/4, NW 1/4 NW 1/4; Section 30 except N 1/2 NE 1/4; Section 31; Section 32 except SE 1/4 NE 1/4 and E 1/2 SE 1/4; N 1/2 NE 1/4, NW 1/4 NW 1/4 Section 33; NW 1/4 Section 34.

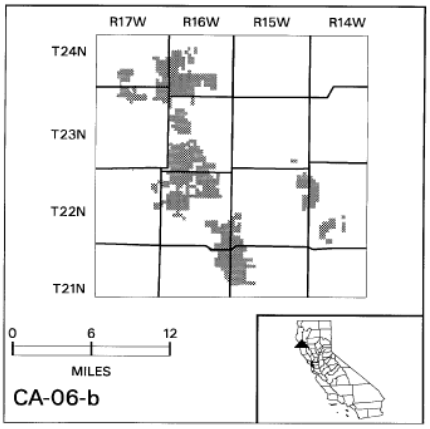
T.24N., R.17W. Mt. Diablo Meridian: NE 1/4 NE 1/4 Section 23; Section 24 except NE 1/4 NW 1/4, NW 1/4 NE 1/4; E 1/2, E 1/2 NW 1/4, NW 1/4 NW 1/4, SW 1/4 SW 1/4 Section 25, N 1/2 SE 1/4 Section 26, Section 36.

Critical Habitat includes only State lands described within the following areas:

T.21N., R.16W. Mt. Diablo Meridian: SW 1/4 NE 1/4, S 1/2 NW 1/4 Section 26.

T.23N., R.17W. Mt. Diablo Meridian: N 1/2 SW 1/4, S 1/2 NW 1/4 Section 2; Section 3 except NE 1/4, S 1/2 SE 1/4; E 1/2 NW 1/4, SW 1/4 NW 1/4, NE 1/4 SE 1/4, NE 1/4 Section 4.

T.24N., R.17W. Mt. Diablo Meridian: Section 28 except SW 1/4 SW 1/4; NW 1/4 Section 27; W 1/2 Section 33; SE 1/4 SW 1/4 Section 34.



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Map and description of CA–07–a taken from United States Fish and Wildlife Service 1:100,000 map; Ukiah, California; 1995.

Critical Habitat includes only State lands described within the following areas:

T.17N., R.14W. Mt. Diablo Meridian: W 1/2 SW 1/4, NE 1/4 SW 1/4 Section 6; W 1/2 NW 1/4, NW 1/4 SW 1/4 Section 7.

T.17N., R.15W. Mt. Diablo Meridian: W 1/2, SE 1/4 Section 2; Sections 3–8; Section 9 except SE 1/4 SE 1/4 ; Section 10 except S 1/2 S 1/2; Section 11; Section 12 except SW 1/4 SE 1/4; N 1/2 NE 1/4 Section 14; Section 18 except SE 1/4, W 1/2 SW 1/4.

T.17N., R.16W. Mt. Diablo Meridian: N 1/2 N 1/2 Section 1; Section 3 except W 1/2 W 1/2; Sections 4–6; NE 1/4, SW 1/4 Section 7; N 1/2, N 1/2 SW 1/4 Section 8; N 1/2, N 1/2 SE 1/4, SE 1/4 SE 1/4 Section 9; Section 10 except NE 1/4 NE 1/4; Section 18 except SE 1/4 SE 1/4; NW 1/4, W 1/2 SW 1/4 Section 19; W 1/2 NW 1/4 Section 30.

T.17N., R.17W. Mt. Diablo Meridian: Sections 1–3; NE 1/4, SW 1/4 NW 1/4, S 1/2 Section 4; NE 1/4, N 1/2 NW 1/4, SE 1/4 NW 1/4, NE 1/4 SE 1/4, S 1/2 S 1/2 Section 5; N 1/2 NE 1/4 Section 6; Section 8 except W 1/2 SW 1/4, SE 1/4 SW 1/4, SW 1/4 SE 1/4; Sections 9–15; SE 1/4 NE 1/4, N 1/2 NE 1/4, NE 1/4 NW 1/4, S 1/2 Section 16; S 1/2 Section 17; S 1/2, S 1/2 NE 1/4 Section 18; NW 1/4 Section 19; N 1/2 NE 1/4 Section 20; Section 21 except SE 1/4 SW 1/4; Section 22 except E 1/2 SW 1/4 ; Section 23 except NW 1/4 SW 1/4; Section 24; NE 1/4 NW 1/4, NW 1/4 SW 1/4 Section 26; Section 27 except SW 1/4 NW 1/4, SE 1/4 SE 1/4, N 1/2 NE 1/4; Section 28 except NE 1/4 NE 1/4, SW 1/4, S 1/2 SE 1/4, W 1/2 NW 1/4.

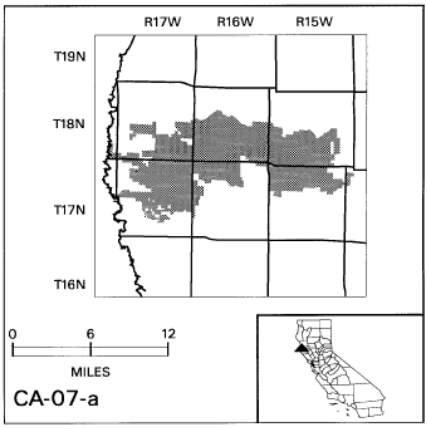
T.17N., R.18W. Mt. Diablo Meridian: SE 1/4 SE 1/4 Section 13.

T.18N., R.15W. Mt. Diablo Meridian: SW 1/4 Section 18; Section 19; SE 1/4 NE 1/4, NE 1/4 SW 1/4, S 1/2 SW 1/4, SE 1/4 Section 20; Section 21; Section 22 except NE 1/4; Section 23 except N 1/2 NW 1/4; W 1/2 W 1/2, SE 1/4 SW 1/4 Section 24; W 1/2 Section 25; Section 26 except E 1/2 E 1/2; Sections 27–34; Section 35 except NE 1/4 SE 1/4.

T.18N., R.16W. Mt. Diablo Meridian: S 1/2 Section 13; SE 1/4 Section 14; SW 1/4, W 1/2 SE 1/4 Section 15; S 1/2 N 1/2, NW 1/4 NW 1/4, S 1/2 Section 16; Section 17 except NW 1/4 NW 1/4; S 1/2 Section 18; Sections 19–33; Section 34 except E 1/2 SE 1/4; Section 35 except W 1/2 SW 1/4, SE 1/4 SW 1/4; Section 36.

T.18N., R.17W. Mt. Diablo Meridian: Section 20 except N 1/2 N 1/2, SW 1/4 SW 1/4; Section 21 except NW 1/4 NE 1/4, N 1/2 NW 1/4; NE 1/4, NE 1/4 SE 1/4, SW 1/4 SE 1/4 Section 23; Section 24; Section 25 except S 1/2 S 1/2, N 1/2 SE 1/4 ; Section 26 except NW 1/4 NW 1/4; Section 27; NE 1/4 NE 1/4 Section 28; N 1/2 NW 1/4, SW 1/4 NW 1/4 Section 29; NW 1/4 SW 1/4, NE 1/4 SE 1/4, S 1/2 S 1/2 Section 31; S 1/2 NE 1/4, S 1/2 Section 32; S 1/2 N 1/2, N 1/2 S 1/2, SE 1/4 SE 1/4 Section 33; Sections 34–36.

T.18N., R.18W. Mt. Diablo Meridian: SW 1/4 Section 25; W 1/2, SE 1/4 Section 36.



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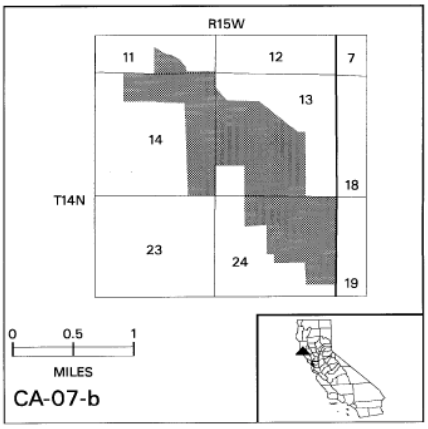
Map and description of CA–07–b taken from United States Fish and Wildlife Service 1:100,000 map; Ukiah, California; 1995.

Critical Habitat includes only State lands described within the following areas:

T.14N., R.15W. Mt. Diablo Meridian: E 1/2 SW 1/4, SW 1/4 SE 1/4, SE 1/4 NW 1/4 Section 11; Section 13 except E 1/2 E 1/2, NE 1/4 NW 1/4, NW 1/4 NE 1/4; E 1/2 E 1/2, NE 1/4, NW 1/4, NW 1/4 NE 1/4 Section 14; NE 1/4, NE 1/4 NW 1/4, N 1/2 SE 1/4 Section 24.



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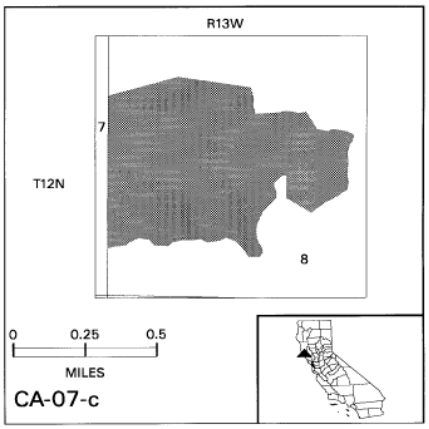
Map and description of CA–07–c taken from United States Fish and Wildlife Service 1:100,000 map; Point Arena, California; 1995.

Critical Habitat includes only State lands described within the following areas:

T.12N., R.13W. Mt. Diablo Meridian: S 1/2 NW 1/4, SW 1/4, N 1/2 SE 1/4, SW 1/4 SE 1/4, S 1/2 NE 1/4 Section 8.



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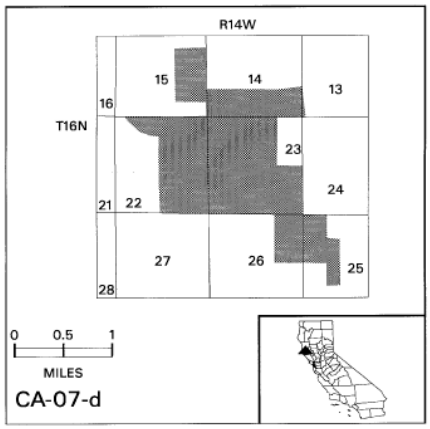
Map and description of CA–07–d taken from United States Fish and Wildlife Service 1:100,000 map; Ukiah, California; 1995.

Critical Habitat includes only State lands described within the following areas:

T.16N., R.14W. Mt. Diablo Meridian: S 1/2 S 1/2 Section 14; E 1/2 SE 1/4, SE 1/4 NE 1/4 Section 15; E 1/2 Section 22; Section 23 except E 1/2 NE 1/4; W 1/2 NW 1/4, SE 1/4 NW 1/4, NE 1/4 SW 1/4 Section 25; E

1/2 NE 1/4 Section 26.



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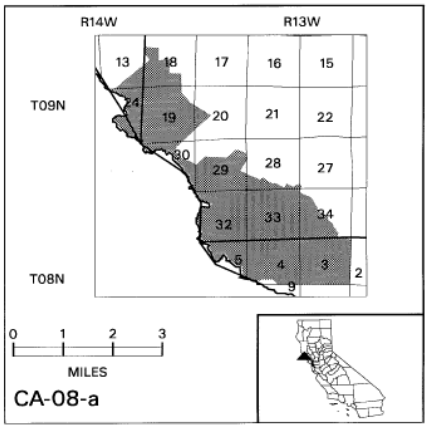
Map and description of CA–08–a taken from United States Fish and Wildlife Service 1:100,000 map; Point Arena, California; 1995.

Critical Habitat includes only State lands described within areas bounded by the following descriptions:

(a) Starting at Station H–34 on the easterly line of the German Rancho, South 33°50' West for 3,200 feet, South 86°20' West for 1,927 feet, North 53° West for 1,372 feet, North 37° West for 1,550.5 feet, North 48° East for 1,720 feet, South 86°45' East for 2,203.5 feet, North 55° East for 1,110.1 feet, South 8°50' East for 653 feet; and (b) starting at the westernmost point of Kruse Rhododendron State Reserve proceeding North 48° East along the Kruse Rhododendron State Reserve boundary to the intersection with Kruse Ranch Road, west on Kruse Ranch Road to the intersection with State Highway 1, north on State Highway 1 to Cannon Gulch, northeast along Cannon Gulch to the Rancho de German Spanish Land Grant boundary, northwest along the Rancho de German Spanish Land Grant boundary to the western edge of Range 13 West, South 29° 30" from this point to Mean High Water (MHW), southwest along the shoreline at MHW to the south boundary of the Rancho de German Spanish Land Grant, east along the Spanish Land Grant boundary to the southeast corner of the land grant, north on the eastern boundary of the land grant to the eastern corner of the Kruse Rhododendron State Reserve, south along the Kruse Rhododendron State Reserve boundary to the westernmost point of the reserve.

Critical Habitat includes only State lands described within the following areas:

T.09N., R.13W. Mt. Diablo Meridian: SW 1/4, SW 1/4 NW 1/4, SW 1/4 SE 1/4 Section 18; NW 1/4 Section 19.



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Map and description of CA–08–b taken from United States Fish and Wildlife Service 1:100,000 map; Point Arena and Healdsburg, California; 1995.

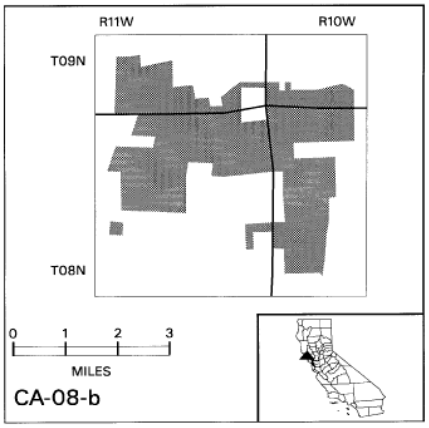
Critical Habitat includes only State lands described within the following areas:

T.08N., R.10W. Mt. Diablo Meridian: NW 1/4, S 1/2 SW 1/4 Section 5; Section 6 except N 1/2 SE 1/4; Section 7 except W 1/2 W 1/2; W 1/2 W 1/2 Section 8; W 1/2 W 1/2 Section 17; Section 18 except W 1/2 SW 1/4.

T.08N., R.11W. Mt. Diablo Meridian: Section 1 except N 1/2 NE 1/4; Section 2 except SW 1/4 SE 1/4; Section 3 except S 1/2 NW 1/4, SW 1/4 NE 1/4; NE 1/4, N 1/2 SE 1/4, E 1/2 NW 1/4, NE 1/4 SW 1/4 Section 10; NW 1/4, N 1/2 SW 1/4 Section 11; N 1/2 NE 1/4, SW 1/4 NE 1/4 Section 13; NW 1/4 NW 1/4 Section 15.

T.09N., R.11W. Mt. Diablo Meridian: SW 1/4 SW 1/4 Section 27; SE 1/4 SE 1/4 Section 28; E 1/2 E 1/2 Section 33; Section 34; SW 1/4, S 1/2 SE 1/4 Section 35.

T.09N., R.10W. Mt. Diablo Meridian: SW 1/4, S 1/2 SE 1/4 Section 31; SW 1/4 Section 32.



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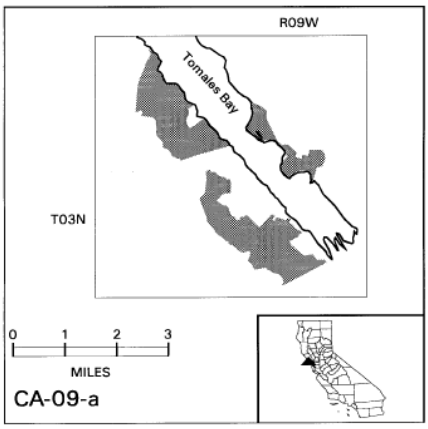
Map and description of CA–09–a taken from United States Fish and Wildlife Service 1:100,000 map; Napa, California; 1995.

Critical Habitat includes only State lands bounded by the following descriptions:

(a) On the west by Point Reyes National Seashore, on the east by the shoreline of Tomales Bay at Mean High Water (MHW), on the south by a line beginning at the intersection of Pierce Point Road with Sir Francis Drake Highway proceeding North 75°07'03" East for 4,734.31 feet to the shoreline of Tomales Bay at MHW; (b) on the east and north by Sir Francis Highway, on the west by Point Reyes National Seashore, on the south by the southern boundary of the Punta De Los Reyes (Randall) Spanish Land Grant; (c) State lands within the Nicasio (Halleck) Spanish Land Grant west of State Highway 1 and east of the shoreline of Tomales Bay at MHW; and (d) State lands within the Nicasio (Frink and Reynolds) Spanish Land Grant.



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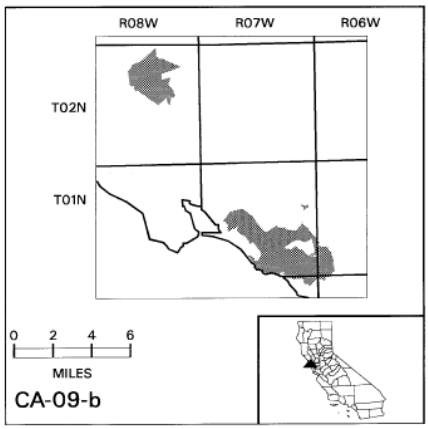
Map and description of CA–09–b taken from United States Fish and Wildlife Service 1:100,000 map; Napa and San Francisco, California; 1995.

Critical Habitat includes only State lands bounded by the following descriptions: (a) portions of Ranchos Nicasio, San Geronimo, and Tomales Y Baulines Spanish Land Grants bounded on the north, west, and south by Golden Gate National Recreation Area and on the east by a line 122°41'33" West; and (b) portions of Ranchos Tomales Y Bolinas, Las Baulines, and Sausalito Spanish Land Grants bounded by a line starting at the intersection of the Rancho Las Baulines Spanish Land Grant boundary line with McKinnan Gulch, west along McKinnan Gulch to the Pacific Ocean, south east along the Pacific Ocean at Mean High Water (MHW) to the intersection with Cold Stream, east along Cold Stream to the intersection with State Highway 1, south on State Highway 1 to the intersection with the south end of the Panoramic Highway, following the Panoramic Highway to the intersection with Rattlesnake Creek, north along Rattlesnake Creek to the intersection with the Rancho Sausalito Spanish Land Grant line, southwest along the Spanish Land Grant boundary to the intersection with the Rancho Las Baulines Spanish Land Grant line, north along the Rancho Las Baulines Spanish Land Grant boundary to the intersection with McKinnan Gulch.



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Map and description of CA–10–a taken from United States Fish and Wildlife Service 1:100,000 map; Grants Pass, Oregon; Happy Camp, California; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.17N., R.07E. Humboldt Meridian: Section 1; Section 2 except NW 1/4 SW 1/4, S 1/2 SW 1/4; N 1/2 Section 3; NE 1/4 NE 1/4 Section 4; NE 1/4 SW 1/4, E 1/2 Section 11; N 1/2 N 1/2, SW 1/4 NW 1/4, W 1/2 SW 1/4 Section 12; NW 1/4, NW 1/4 SW 1/4 Section 13; NE 1/4, N 1/2 SE 1/4 Section 14.

T.17N., R.08E. Humboldt Meridian: Section 6 except E 1/2 E 1/2, SW 1/4 SE 1/4.

T.18N., R.07E. Humboldt Meridian: Section 30 except NW 1/4; NE 1/4, N 1/2 NW 1/4, Section 31; N 1/2, NW 1/4 SW 1/4 Section 32; Section 36.

T.18N., R.08E. Humboldt Meridian: Section 31 except SE 1/4 SE 1/4.

T.41S., R.06W. Willamette Meridian: Section 4 except N 1/2 NE 1/4; Section 5 except N 1/2 NW 1/4, NW 1/4 NE 1/4; SE 1/4, S 1/2 SW 1/4 Section 6; Sections 7–8; Section 9 except N 1/2 SW 1/4, SE 1/4 SE 1/4; NW 1/4 SW 1/4, W 1/2 NW 1/4 Section 10; S 1/2, NW 1/4 Section 16; Sections 17–18.

T.41S., R.07W. Willamette Meridian: Section 10 except W 1/2 NW 1/4, NE 1/4 NE 1/4, NW 1/4 SW 1/4; Section 11 except NW 1/4; Section 12 except NE 1/4 NW 1/4, W 1/2 NE 1/4; Sections 13–15.

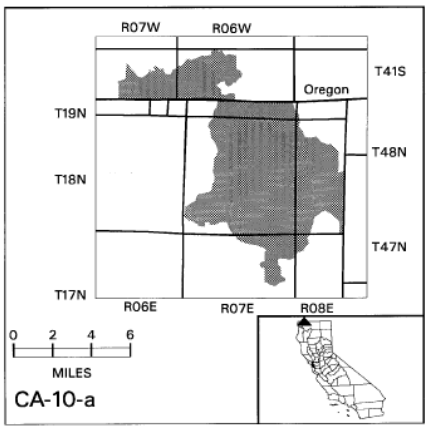
Description of Lands Using Protracted Public Land Survey Lines

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.18N., R.07E. Humboldt Meridian: Section 1–4; E 1/2 Section 5; NE 1/4, E 1/2 SE 1/4 Section 8; Sections 9–16; E 1/2 Section 17; SE 1/4 SE 1/4 Section 19; E 1/2, S 1/2 SW 1/4 Section 20; Sections 21–29; E 1/2, N 1/2 NW 1/4 Section 33; Sections 34–35.

T.18N., R.08E. Humboldt Meridian: SW 1/4, W 1/2 NW 1/4, S 1/2 SE 1/4 Section 6; Section 7; Section 8 except N 1/2 NE 1/4, N 1/2 NW 1/4; W 1/2 SW 1/4 Section 9; W 1/2, S 1/2 SE 1/4 Section 16; Sections 17–21; Section 28; Section 29 except SW 1/4 SE 1/4; Section 30; NW 1/4 NW 1/4 Section 32; N 1/2 NW 1/4, E 1/2 Section 33.

T.19N., R.07E. Humboldt Meridian: E 1/2 Section 32; Sections 33–36.



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Map and description of CA–11–a taken from United States Fish and Wildlife Service 1:100,000 map; Hoopa and Hayfork, California; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

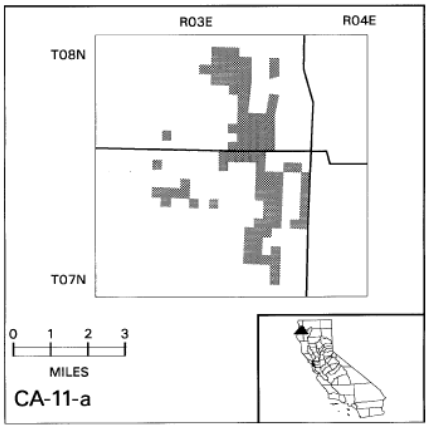
T.07N., R.03E. Humboldt Meridian: E 1/2 SE 1/4, W 1/2 SW 1/4, SE 1/4 NW 1/4, SW 1/4 NE 1/4 Section 1; E 1/2 NE 1/4, N 1/2 NW 1/4, SE 1/4 Section 2; N 1/2 NE 1/4, SW 1/4 NE 1/4 Section 3; SW 1/4 SE 1/4

Section 4; SE 1/4 NE 1/4 Section 5; NE 1/4 NE 1/4 Section 8; W 1/2 NW 1/4, NE 1/4 NW 1/4, NW 1/4 NE 1/4, SE 1/4 NE 1/4 Section 9; SE 1/4 NW 1/4 Section 10; E 1/2 E 1/2, NW 1/4 NE 1/4, SW 1/4 SE 1/4 Section 11; W 1/2 W 1/2, E 1/2 E 1/2, SW 1/4 SE 1/4 Section 12; W 1/2 SW 1/4 Section 13; E 1/2 W 1/2, W 1/2 E 1/2, NE 1/4 NE 1/4, SE 1/4 SE 1/4 Section 14; W 1/2 NW 1/4 Section 24.

Description of Lands Using Protracted Public Land Survey Lines

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.08N., R.03E. Humboldt Meridian: SE 1/4, S 1/2 NE 1/4, SE 1/4 NW 1/4, S 1/2 SW 1/4, NE 1/4 SW 1/4 Section 22; SW 1/4, SW 1/4 NW 1/4, E 1/2 SE 1/4 Section 23; W 1/2, E 1/2 SE 1/4 Section 26; NE 1/4 NW 1/4, N 1/2 NE 1/4, SE 1/4 NE 1/4 Section 27; NW 1/4 SW 1/4 Section 33; SE 1/4 NE 1/4, SE 1/4 SE 1/4, Section 34; Section 35.



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Map and description of CA–11–b taken from United States Fish and Wildlife Service 1:100,000 map; Hayfork, California; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.03N., R.02E. Humboldt Meridian: SE 1/4 NE 1/4, SW 1/4 NW 1/4, N 1/2 N 1/2 Section 1; NE 1/4, E 1/2 NW 1/4, N 1/2 SE 1/4 Section 2.

T.03N., R.03E. Humboldt Meridian: N 1/2 NE 1/4, SE 1/4 NW 1/4, NE 1/4 SW 1/4, W 1/2 SE 1/4, Section 6.

T.03N., R.04E. Humboldt Meridian: W 1/2 NE 1/4, NW 1/4 Section 1; Section 2 except SE 1/4 SE 1/4; E 1/2 NE 1/4, SE 1/4 SW 1/4, SE 1/4 Section 3; W 1/2 NE 1/4, NW 1/4 Section 5; E 1/2 NE 1/4 Section 6.

T.03N., R.05E. Humboldt Meridian: NE 1/4, N 1/2 SE 1/4 Section 6; SW 1/4 NW 1/4, N 1/2 SW 1/4, SW 1/4 SW 1/4 Section 7; NW 1/4 NW 1/4 Section 18.

T.04N., R.02E. Humboldt Meridian: S 1/2 SE 1/4 Section 25.

T.04N., R.03E. Humboldt Meridian: S 1/2 NW 1/4, NW 1/4 SE 1/4, SE 1/4 SE 1/4 Section 31.

T.04N., R.04E. Humboldt Meridian: NE 1/4 Section 1; E 1/2 E 1/2 Section 12; S 1/2 Section 25; SE 1/4 NW 1/4, NW 1/4 SW 1/4, SE 1/4 Section 26; S 1/2 NE 1/4, NW 1/4, N 1/2 SE 1/4 Section 27; N 1/2, S 1/2 S 1/2, NE 1/4 SW 1/4, NE 1/4 SE 1/4 Section 28; SW 1/4 NW 1/4 Section 29; S 1/2 NE 1/4, SW 1/4, W 1/2 SE 1/4 Section 30; W 1/2 NE 1/4, NW 1/4, N 1/2 SE 1/4, NW 1/4 SW 1/4 Section 31; SE 1/4 NW 1/4, SW 1/4 Section 32; N 1/2 N 1/2, SE 1/4 NE 1/4, SE 1/4 NW 1/4, NE 1/4 SE 1/4 Section 33; Section 34 except N 1/2 NE 1/4, S 1/2 SW 1/4; Section 35 except N 1/2 N 1/2.

T.04N., R.05E. Humboldt Meridian: Sections 1–7; S 1/2 S 1/2 Section 8; Sections 9–12; Section 13 except E 1/2 NE 1/4, E 1/2 SE 1/4; Section 14; Section 15 except W 1/2 NW 1/4 and SW 1/4; NE 1/4 NW 1/4, NW 1/4 NE 1/4 Section 16; NW 1/4 SW 1/4 Section 17; N 1/2, N 1/2 SE 1/4 Section 18; Section 19 except W 1/2 W 1/2; Section 20; NE 1/4 NW 1/4, SW 1/4 Section 21; NE 1/4, N 1/2 SE 1/4, E 1/2 NW 1/4 Section 22; Section 23; Section 24 except SE 1/4 SE 1/4; N 1/2 NW 1/4 Section 25; NW 1/4 NE 1/4, NW 1/4, NW 1/4 SW 1/4 Section 26; NW 1/4 NW 1/4 Section 28; Section 29 except S 1/2 NE 1/4, N 1/2 SE 1/4, SE 1/4 SE 1/4; Section 30; Section 31 except SW 1/4 SW 1/4; NW 1/4, W 1/2 SW 1/4 Section 32.

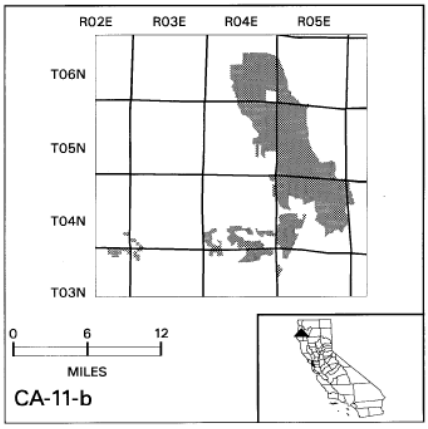
T.04N., R.06E. Humboldt Meridian: W 1/2 W 1/2 Section 6; W 1/2 Section 7.

T.05N., R.04E. Humboldt Meridian: Sections 1–3; E 1/2 NE 1/4 Section 4; NE 1/4, N 1/2 NW 1/4, E 1/2 E 1/2 Section 10; Sections 11–13; Section 14 except SW 1/4, SW 1/4 NW 1/4; Section 23 except W 1/2 SW 1/4, W 1/2 SE 1/4; Section 24; N 1/2 NW 1/4, S 1/2 SE 1/4 Section 25; E 1/2 NW 1/4 Section 26.

T.05N., R.05E. Humboldt Meridian: Section 4 except E 1/2; Sections 5–8; Section 9 except E 1/2; Section 16 except E 1/2 E 1/2; Sections 17–20; Section 21 except E 1/2 NE 1/4; W 1/2 SW 1/4 Section 22; W 1/2 SW 1/4 Section 25; S 1/2 Section 26; Section 27 except NE 1/4, N 1/2 SE 1/4; Sections 28–35; W 1/2 W 1/2, S 1/2 S 1/2 Section 36.

T.06N., R.04E. Humboldt Meridian: Sections 13–15; Sections 21–27; Section 28 except SW 1/4 NW 1/4, NW 1/4 SW 1/4; Section 33 except W 1/2 NW 1/4, SW 1/4; Sections 34–35.

T.06N., R.05E. Humboldt Meridian: W 1/2, W 1/2 SE 1/4 Section 18; Section 19 except E 1/2 NE 1/4; SW 1/4 SW 1/4 Section 29; Sections 30–31; Section 32 except NE 1/4, NE 1/4 SE 1/4, NE 1/4 NW 1/4.



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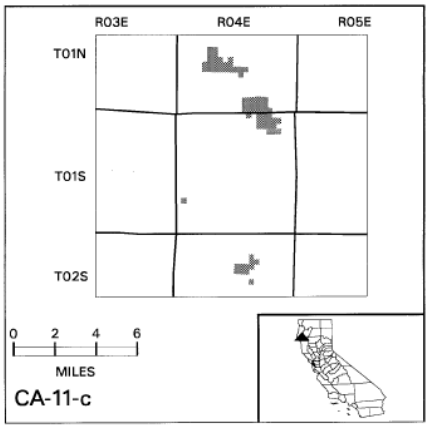
Map and description of CA–11–c taken from United States Fish and Wildlife Service 1:100,000 map; Garberville, California; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.02S., R.04E. Humboldt Meridian: E 1/2 NE 1/4, SW 1/4, N 1/2 SE 1/4, SW 1/4 SE 1/4 Section 10; SW 1/4 NW 1/4 Section 11; SE 1/4 NE 1/4 Section 15.

T.01S., R.04E. Humboldt Meridian: SW 1/4 NW 1/4, SW 1/4 SW 1/4 Section 1; Section 2 except NE 1/4 NE 1/4 and S 1/2 SW 1/4; NW 1/4 NE 1/4 Section 3; SE 1/4 NW 1/4 Section 30.

T.01N., R.04E. Humboldt Meridian: S 1/2 SE 1/4 Section 17; E 1/2, E 1/2 SW 1/4 Section 20; SW 1/4 NE 1/4, SW 1/4 NW 1/4, SW 1/4, NW 1/4 SE 1/4, S 1/2 SE 1/4 Section 21; S 1/2 SW 1/4 Section 22; SW 1/4 NW 1/4 Section 23; NW 1/4 NW 1/4 Section 27; S 1/2 NE 1/4, SE 1/4 NW 1/4, E 1/2 SW 1/4, SE 1/4 Section 34; S 1/2 NW 1/4, SW 1/4, SW 1/4 SE 1/4 Section 35.



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Map and description of CA–11–d taken from United States Fish and Wildlife Service 1:100,000 map; Hoopa and Hayfork, California; 1995.

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.07N., R.05E. Humboldt Meridian: N 1/2 NE 1/4 Section 8; NE 1/4, E 1/2 SE 1/4, NE 1/4 NW 1/4 Section 9; Section 24 except W 1/2 W 1/2; NW 1/4, NE 1/4 SE 1/4 Section 25 ; SW 1/4 NW 1/4, W 1/2 SW 1/4, NW 1/4, NE 1/4 SE 1/4 Section 34.

Description of Lands Using Protracted Public Land Survey Lines

Critical Habitat includes only Federal lands designated as Late Successional Reserves described within the following areas:

T.06N., R.06E. Humboldt Meridian: W 1/2 W 1/2 Section 1; Sections 2–3; Section 4 except W 1/2 SW 1/4, SE 1/4 SW 1/4; NE 1/4 NE 1/4 Section 9; SE 1/4, N 1/2, SE 1/4 NE 1/4 Section 10; Section 11 except E 1/2 E 1/2, S 1/2 SE 1/4; NW 1/4 NE 1/4, SW 1/4 SW 1/4, N 1/2 SW 1/4, NW 1/4 Section 14; NE 1/4 NE 1/4, E 1/2 SE 1/4 Section 15.

T.07N., R.05E. Humboldt Meridian: Sections 1–3; Section 4 except NW 1/4 NW 1/4; E 1/2, Section 5; Sections 10–13; N 1/2 N 1/2, SE 1/4 NE 1/4 Section 14.

T.07N., R.06E. Humboldt Meridian: W 1/2 NE 1/4, N 1/2 SW 1/4 NW 1/4, NW 1/4 SE 1/4 Section 2; Section 3 except S 1/2 SE 1/4, SE 1/4 SW 1/4; Sections 4–8; NW 1/4, S 1/2 Section 9; SW 1/4, NW 1/4 SE 1/4, S 1/2 SE 1/4 Section 10; SW 1/4 SW 1/4 Section 11; SE 1/4 SE 1/4 Section 12; Section 13 except NW 1/4 NW 1/4; Sections 14–23; Section 24 except SE 1/4 SE 1/4; Section 25 except SE 1/4 SE 1/4; Sections 26–30; E 1/2 E 1/2, NW 1/4 NE 1/4 Section 31; Section 32 except SE 1/4 SW 1/4; Sections 33–35; W 1/2 SW 1/4, NW 1/4 Section 36.

T.07N., R.07E. Humboldt Meridian: SW 1/4 SE 1/4, SW 1/4 Section 6; SW 1/4, NW 1/4, W 1/2 NE 1/4

Section 7.

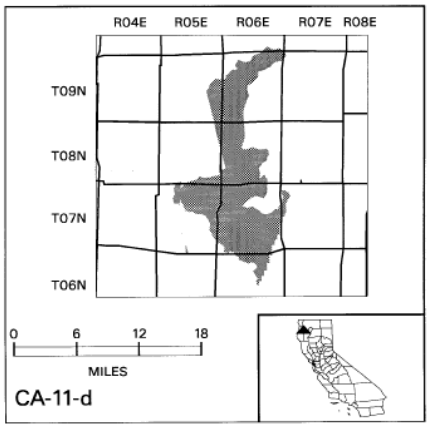
T.08N., R.05E. Humboldt Meridian: E 1/2, E 1/2 NW 1/4, NE 1/4 SW 1/4 Section 1; E 1/2 E 1/2, E 1/2 NW 1/4 Section 12; NE 1/4 NE 1/4 Section 13; SE 1/4 SE 1/4 Section 25; SE 1/4 SE 1/4 Section 33; SE 1/4 NE 1/4, S 1/2 Section 34; S 1/2, S 1/2 N 1/2 Section 35; Section 36 except NW 1/4 NW 1/4.

T.08N., R.06E. Humboldt Meridian: W 1/2 W 1/2 Section 4; Sections 5–8; W 1/2 W 1/2 Section 9; S 1/2 SW 1/4, SW 1/4 SE 1/4 Section 14; SW 1/4, S 1/2 SE 1/4 Section 15; S 1/2 Section 16; Sections 17–18; Section 19 except W 1/2 W 1/2; Sections 20–22; W 1/2, W 1/2 NE 1/4, NW 1/4 SE 1/4 Section 23; Sections 27–29; Section 30 except W 1/2 NW 1/4; Sections 31–34; W 1/2 SE 1/4, SE 1/4 NW 1/4, SW 1/4 Section 35.

T.09N., R.05E. Humboldt Meridian: Section 12; Section 13; E 1/2 SE 1/4, SE 1/4 NE 1/4 Section 14; E 1/2 E 1/2, W 1/2 NE 1/4, Sections 23–25; E 1/2 NE 1/4 Section 26; Section 36 except SW 1/4 SW 1/4.

T.09N., R.06E. Humboldt Meridian: N 1/2 SW 1/4 Section 1; Section 2 except SE 1/4 SE 1/4; Section 3 except N 1/2 NW 1/4; N 1/2 Section 4; SE 1/4, E 1/2 SW 1/4 Section 5; SE 1/4, SE 1/4 NE 1/4, E 1/2 SW 1/4 Section 7; Sections 8–9; N 1/2 NE 1/4, SW 1/4 NE 1/4, W 1/2 SE 1/4, W 1/2 Section 10; Section 16 except SE 1/4; Sections 17–20; W 1/2 E 1/2, W 1/2 Section 21; NW 1/4, W 1/2 SW 1/4 Section 28; Sections 29–32; W 1/2 W 1/2 Section 33.

T.10N., R.06E. Humboldt Meridian: S 1/2 S 1/2, NE 1/4 SW 1/4, NW 1/4 SE 1/4 Section 35; S 1/2 S 1/2 Section 36.



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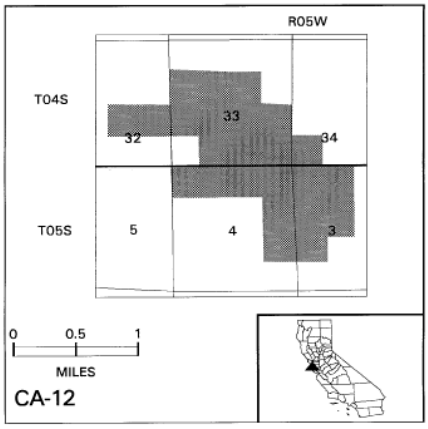
Map and description of CA–12 taken from United States Fish and Wildlife Service 1:100,000 map; California; 1995.

Critical Habitat includes only City lands described within the following areas:

T.04S., R.05W. Mount Diablo Meridian: N 1/2 SE 1/4 Section 32; S 1/2 NW 1/4, SE 1/4, SW 1/4 NE 1/4, N 1/2 SW 1/4, SE 1/4 SW 1/4 Section 33; SW 1/4 SW 1/4 Section 34.

T.05S., R.05W. Mount Diablo Meridian: NW 1/4, NW 1/4 SW 1/4 Section 3; SE 1/4 NE 1/4, N 1/2 N 1/2, NE 1/4 SE 1/4 Section 4.



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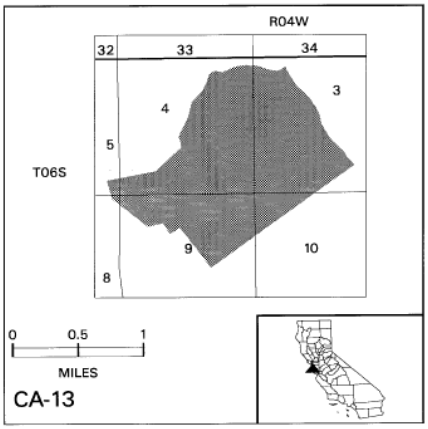
Map and description of CA–13 taken from United States Fish and Wildlife Service 1:100,000 map; California; 1995.

Critical Habitat includes only County lands bounded by the following description within Spanish Land Grant Canada de Raymundo:

Starting at the intersection of West Union Creek with the San Francisco State Fish and Game Refuge boundary, west along the San Francisco State Fish and Game Refuge boundary to the intersection with State Highway 35, southeast on State Highway 35 to the intersection with the San Francisco State Fish and Game Refuge boundary, southeast along the San Francisco State Fish and Game Refuge boundary to Woodside City boundary, northeast along Woodside City boundary to the intersection with Greer Road, northwest on Greer Road to the intersection with West Union Creek, north along West Union Creek to the intersection with the San Francisco State Fish and Game Refuge boundary.



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Map and description of CA–14–a taken from United States Fish and Wildlife Service 1:100,000 map; California; 1995.

Critical Habitat includes only County lands described within the following areas:

T.07S., R.03W. Mount Diablo Meridian: S 1/2, SE 1/4 NE 1/4 Section 31; W 1/2 SW 1/4, SW 1/4 NW 1/4 Section 32.

T.07S., R.04W. Mount Diablo Meridian: S 1/2 NE 1/4, SE 1/4 Section 22; S 1/2 SW 1/4, NW 1/4 SW 1/4 Section 23; SW 1/4, W 1/2 SE 1/4, S 1/2 NW 1/4, SW 1/4 NE 1/4 Section 25; Section 26 except SW 1/4, NE 1/4 NE 1/4, S 1/2 SE 1/4, W 1/2 NW 1/4; E 1/2, SE 1/4 NW 1/4 Section 33; S 1/2, SW 1/4 NW 1/4 Section 34; Section 35 except N 1/2 N 1/2; Section 36 except E 1/2 NE 1/4.

T.08S., R.03W. Mount Diablo Meridian: Sections 6–7; S 1/2 S 1/2 Section 8; SW 1/4 SW 1/4 Section 9; NW 1/4 Section 16; N 1/2 N 1/2, SW 1/4 NW 1/4 Section 17; N 1/2, N 1/2 SE 1/4 Section 18.

T.08S., R.04W. Mount Diablo Meridian: Sections 1–2; SE 1/4 Section 3; NE 1/4 NE 1/4, N 1/2 NW 1/4 Section 10; NE 1/4, N 1/2 NW 1/4 Section 11; Section 12 except SW 1/4 SW 1/4.

Critical Habitat includes only Private lands described within the following areas:

T.07S., R.04W. Mount Diablo Meridian: N 1/2 NE 1/4 Section 35.

T.08S., R.04W. Mount Diablo Meridian: S 1/2 Section 4; SE 1/4 Section 5; Sections 7–8; N 1/2 Section 9; Section 16–18; Section 20 except NW 1/4, SE 1/4 SE 1/4; NW 1/4 Section 21.

Description of Lands Using Protracted Public Land Survey Lines

Critical Habitat includes only State lands described within the following areas:

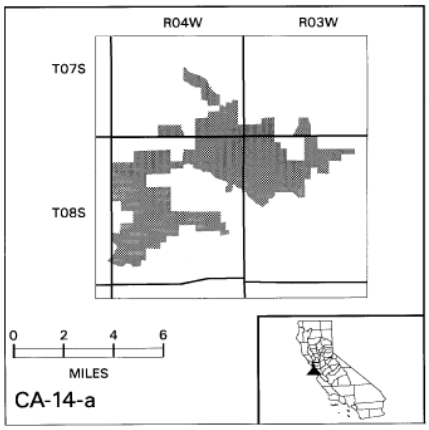
T.07S., R03W. Mount Diablo Meridian: W 1/2 SE 1/4, SW 1/4, SE 1/4 NW 1/4, SW 1/4 NE 1/4 Section 33.

T.08S., R03W. Mount Diablo Meridian: N 1/2 SW 1/4 Section 2; S 1/2 Section 3; E 1/2 Section 4; S 1/2 NW 1/4, NW 1/4 NW 1/4, SW 1/4, W 1/2 SE 1/4 Section 5; Section 8 except SW 1/4 SW 1/4; Section 9 except S 1/2 SE 1/4, NE 1/4 SE 1/4, SE 1/4 NE 1/4; NW 1/4 Section 10.

T.08S., R04W. Mount Diablo Meridian: Section 19; S 1/2 SE 1/4 Section 20; Section 21 except NW 1/4; Section 22 except SE 1/4, E 1/2 SW 1/4; Section 23 except S 1/2 S 1/2; W 1/2 SW 1/4 Section 24; NW 1/4, NW 1/4 NE 1/4 Section 28; Sections 29–30; N 1/2 Section 32.

Critical Habitat includes only State lands within Rancho Punta del Ano Nuevo Spanish Land Grant bounded by the following description:

Starting at the intersection of Butano Park Road with Cloverdale Road, south along Cloverdale Road to the intersection with Gazos Creek Road, east along Gazos Creek Road to the intersection with Punta del Ano Nuevo Spanish Land Grant boundary, north along the Punta del Ano Nuevo Spanish Land Grant boundary to the intersection with Butano Park Road, west along Butano Park Road to the intersection of Butano Park Road with Cloverdale Road.



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Map and description of CA–14–b taken from United States Fish and Wildlife Service 1:100,000 map; California; 1995.

Description of Lands Using Protracted Public Land Survey Lines

Critical Habitat includes only State lands described within the following areas:

T.08S., R.03W. Mount Diablo Meridian: SE 1/4 SW 1/4, S 1/2 SE 1/4 Section 19; S 1/2 SW 1/4 Section 20; NE 1/4 NE 1/4, SW 1/4 SE 1/4 Section 26, Section 29 ; Section 30 except NW 1/4 NW 1/4; Sections 31–33.

T.08S., R.04W. Mount Diablo Meridian: SE 1/4, S 1/2 SW 1/4 Section 25; S 1/2 Section 35; Section 36.

T.09S., R.03W. Mount Diablo Meridian: NW 1/4 Section 3; Sections 4–8; SE 1/4 NW 1/4, SW 1/4, N 1/2 NE 1/4, SE 1/4 NE 1/4, N 1/2 SE 1/4, SE 1/4 SE 1/4 Section 9; S 1/2 SW 1/4, NW 1/4 SW 1/4, Section 10; NW 1/4 Section 15; NE 1/4, N 1/2 SE 1/4 Section 16; W 1/2 NW 1/4 Section 17; Section 18; N 1/2 NW 1/4, SE 1/4 NW 1/4, N 1/2 SW 1/4 Section 19; S 1/2 NE 1/4, NW 1/4 SE 1/4, SE 1/4 SE 1/4 Section 30; S 1/2 N 1/2, NE 1/4 NE 1/4 Section 31.

T.09S., R.04W. Mount Diablo Meridian: Sections 1–2; Section 3 except N 1/2 NW 1/4, E 1/2 SW 1/4; NW 1/4 NE 1/4, SE 1/4 NE 1/4 Section 4; SE 1/4, S 1/2 SW 1/4, NE 1/4 SW 1/4, S 1/2 NE 1/4 Section 9; Section 10 except NW 1/4; Sections 11–12; Section 13 except SW 1/4 SE 1/4; Section 14; Section 15 except SE 1/4 SE 1/4; Section 16; NE 1/4 NE 1/4 Section 21; Section 22 except SW 1/4 SE 1/4, SE 1/4 SW 1/4; Section 23; Section 24; N 1/2 NW 1/4, SE 1/4 SE 1/4, SE 1/4 SW 1/4 Section 25; W 1/2, W 1/2 E 1/2 Section 26; Section 27 except NW 1/4 NW 1/4; Section 34; NE 1/4 NW 1/4, W 1/2 W 1/2 SE 1/4 SW 1/4 Section 35.

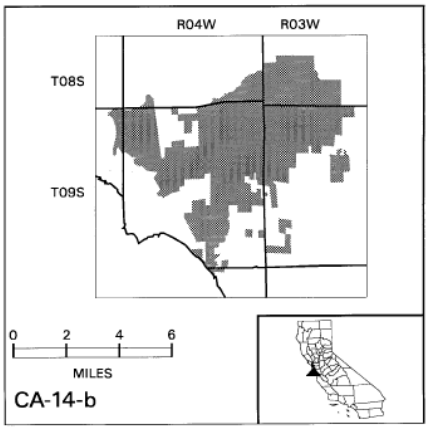
T.10S., R.04W. Mount Diablo Meridian: Sections 2–3.

Critical Habitat includes only Private lands described within the following areas:

T.09S., R.04W. Mount Diablo Meridian: Section 16; Section 21 except S 1/2, E 1/2 NE 1/4.

Critical Habitat includes only State lands bounded by the following description within Spanish Land Grant Punta de Ano Nuevo:

Starting at the intersection of the Spanish Land Grant boundary with Green Oaks Creek, north along the Spanish Land Grant boundary to the intersection with Gazos Creek, west along Gazos Creek to the intersection with State Highway 1, south on State Highway 1 to the intersection with Green Oaks Creek, and east along Green Oaks Creek to the Spanish Land Grant boundary.



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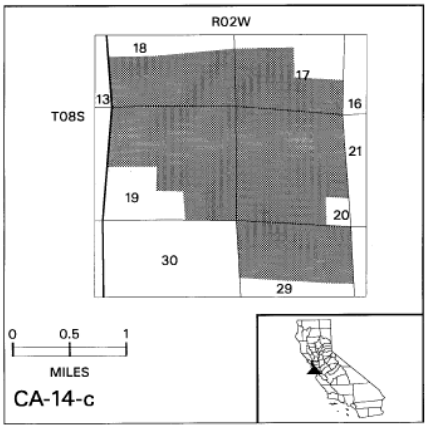
Map and description of CA–14–c taken from United States Fish and Wildlife Service 1:100,000 map; California; 1995.

Critical Habitat includes only State lands described within the following areas:

T.08S., R.02W. Mount Diablo Meridian: SW 1/4, S 1/2 SE 1/4 Section 17; S 1/2 Section 18; Section 19 except S 1/2 SW 1/4, NW 1/4 SW 1/4; Section 20 except SE 1/4 SE 1/4; N 1/2 Section 29.



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Map and description of CA–15 taken from United States Fish and Wildlife Service 1:100,000 map; California; 1995.

Critical Habitat includes only State lands described within the following areas:

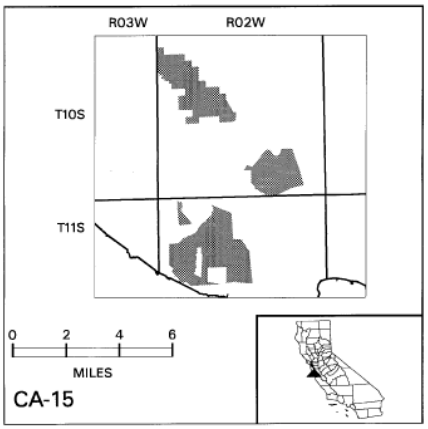
T.10S., R.02W. Mount Diablo Meridian: S 1/2 S 1/2, NW 1/4 SW 1/4 Section 6; Section 7 except S 1/2 SW 1/4, ; SW 1/4, S 1/2 NW 1/4, SW 1/4 SE 1/4, NW 1/4 NW 1/4 Section 8; SW 1/4, S 1/2 NW 1/4, NW 1/4 NW 1/4, S 1/2 SE 1/4, NW 1/4 SE 1/4 Section 16; Section 17 except SW 1/4 SW 1/4; SE 1/4 NE 1/4, NE 1/4 SE 1/4 Section 18; N 1/2 NW 1/4 Section 20; NE 1/4, E 1/2 NW 1/4 Section 21.

Critical Habitat includes only State lands within the following area:

Spanish Land Grant Canada del Rincon en el Rio de San Lorenzo de Santa Cruz west of Graham Hill Road.

Critical Habitat includes only State lands bounded by the following description within Spanish Land Grant Rancho Refugio:

Starting at the intersection of State Highway 1 with the western boundary of the Rancho Refugio Spanish Land Grant, proceeding east on State Highway 1 to its intersection with Moore Creek, north along Moore Creek to the intersection with Empire Grade Road, northwest on Empire Grade Road to the intersection with the eastern boundary of the Rancho Refugio Spanish Land Grant, west and then southwest along the Rancho Refugio Spanish Land Grant boundary to the intersection with State Highway 1.



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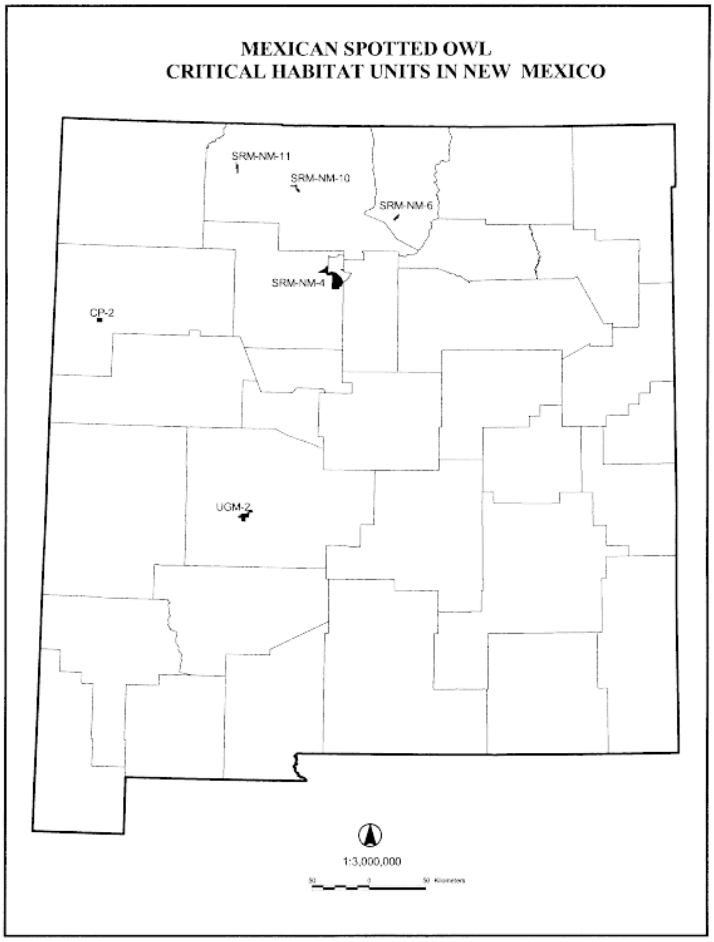
Mexican Spotted Owl (Strix occidentalis lucida)

Critical habitat is limited to areas within the mapped boundaries that meet the definition of protected habitat as described in the Recovery Plan (600 acres around known owl sites and mixed conifer or pine-oak forests with slopes greater than 40 percent where timber harvest has not occurred in the past 20 years). All restricted habitat as described in the Recovery Plan is also designated as critical habitat. Private and State lands within mapped boundaries are not designated as critical habitat. No Tribal lands other than those administered by the National Park Service are designated. Existing man-made features and structures, such as buildings, roads, railroads, and urban development, are not considered critical habitat. Critical habitat units for the States of Arizona, Colorado, New Mexico, and Utah are depicted on the maps below. Larger maps and digital files for all four States and maps of critical habitat units in the State of New Mexico are available at the New Mexico Ecological Services Field Office, 2105 Osuna N.E., Albuquerque, New Mexico 87113, telephone (505) 346–2525. For the States of Arizona, Colorado, and Utah, maps of the critical habitat units specific to each State are available at the following U.S. Fish and Wildlife Service offices—Arizona Ecological Services Field Office, 2321 West Royal Palm Road, Suite 103, Phoenix, Arizona 85021, telephone (602) 640–2720; Colorado State Sub-Office, 764 Horizon Drive South, Annex A, Grand Junction, Colorado 81506, telephone (970) 243–2778; and Utah Ecological Services Field Office, Lincoln Plaza, 145 East 1300 South, Suite 404, Salt Lake City, Utah 84115, telephone (801) 524–5001.

1. Critical habitat units are designated in portions of McKinley, Rio Arriba, Sandoval, Socorro, and Taos, Counties in New Mexico; Apache, Cochise, Coconino, Graham, Mohave, and Pima Counties in Arizona; Carbon, Emery, Garfield, Grand, Iron, Kane, San Juan, Washington, and Wayne Counties in Utah; and Custer, Douglas, El Paso, Fremont, Huerfano, Jefferson, Pueblo, and Teller Counties in Colorado. Precise descriptions of each critical habitat unit are on file at the New Mexico Ecological Services Field Office.

2. Within these areas, the primary constituent elements for Mexican spotted owl include, but are not limited to, those habitat components providing for nesting, roosting, and foraging activities. Primary constituent elements in Protected Activity Centers include all vegetation and other organic matter contained therein. Primary constituent elements on all other areas are provided in canyons and mixed conifer, pine-oak, and riparian habitat types that typically support nesting and/or roosting. The primary constituent elements that occur in mixed conifer, pine-oak, and riparian forest types, as described in the Recovery Plan, which currently contain or may attain the habitat attributes believed capable of supporting nesting and roosting owls include: high basal area of large-diameter trees; moderate to high canopy closure; wide range of tree sizes suggestive of uneven-age stands; multi-layered canopy with large overstory trees of various species; high snag basal area; high volumes of fallen trees and other woody debris; high plant species richness, including hardwoods; and adequate levels of residual plant cover to maintain fruits, seeds, and regeneration to provide for the needs of Mexican spotted owl prey species. For canyon habitats, the primary constituent elements include the following attributes: cooler and often higher humidity than the surrounding area; clumps or stringers of ponderosa pine, Douglas-fir, white fir, and/or piñon-juniper trees and/or canyon wall containing crevices, ledges, or caves; high percent of ground litter and woody debris; and riparian or woody vegetation (although not at all sites).



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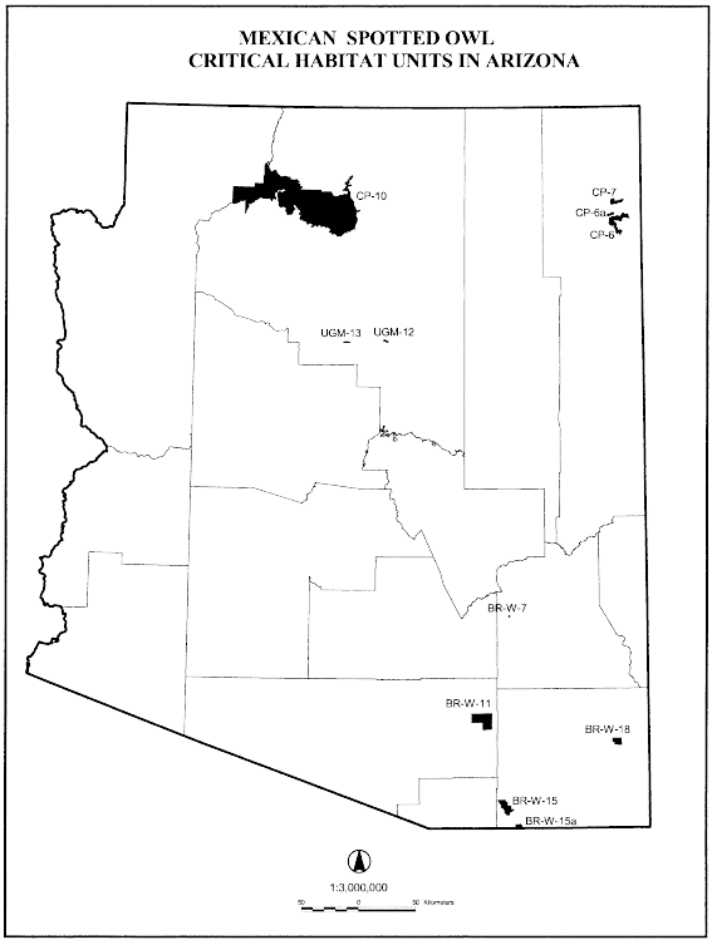

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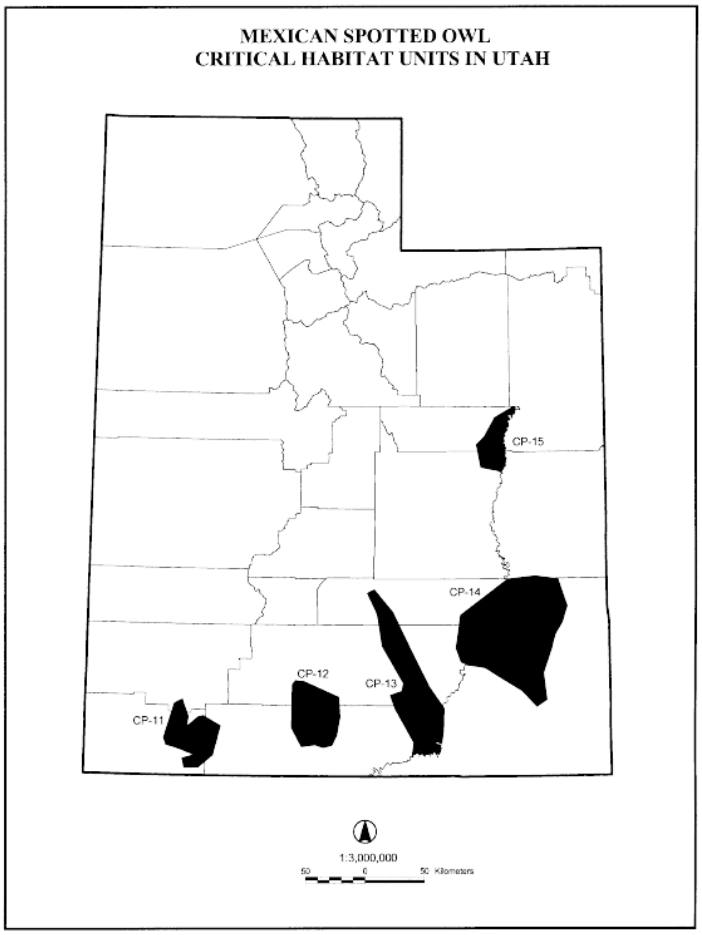

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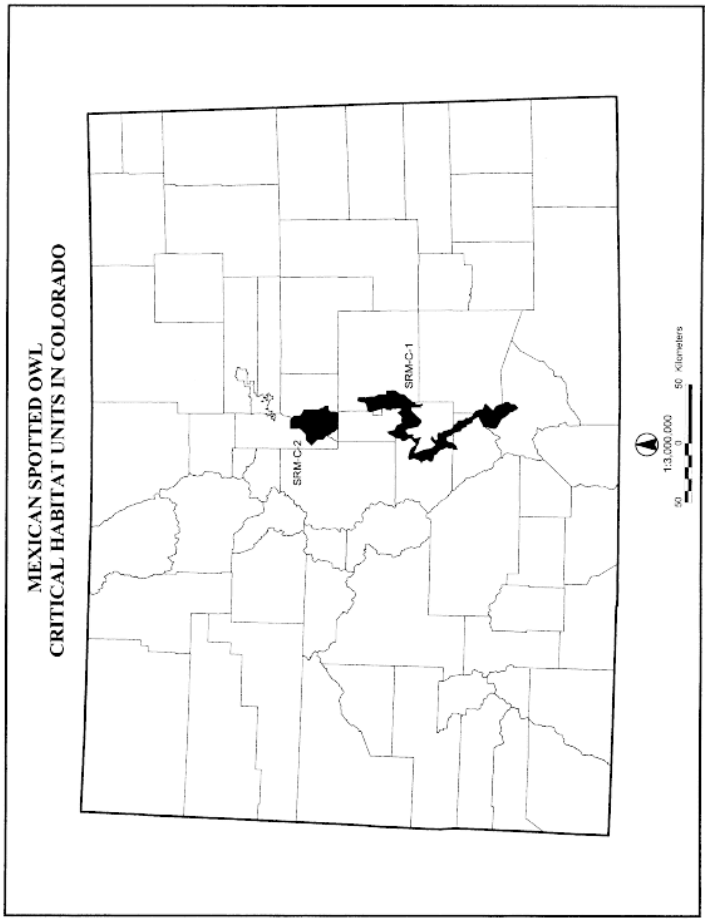

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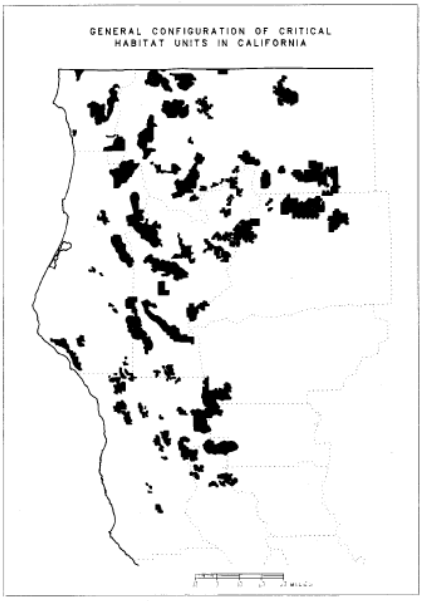
Northern Spotted Owl (Strix occidentalis caurina)

For the States of California, Oregon, and Washington, critical habitat units under Federal jurisdiction are

depicted on maps maintained on file at the U.S. Fish and Wildlife Service, Fish and Wildlife Enhancement, 911 Northeast 11th Avenue, Portland, Oregon 97232–4181 (503/231–6131). Copies of these maps are available upon request at the requester's expense.



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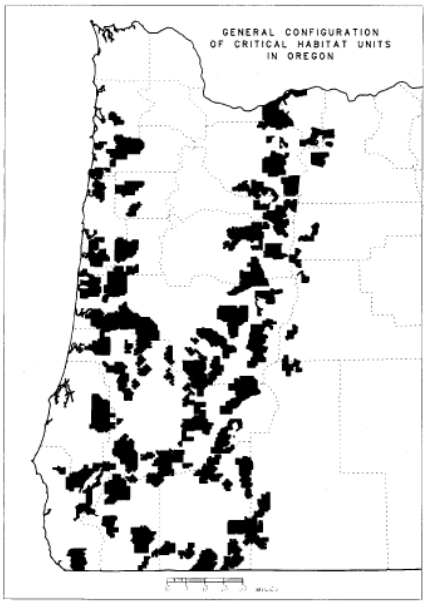

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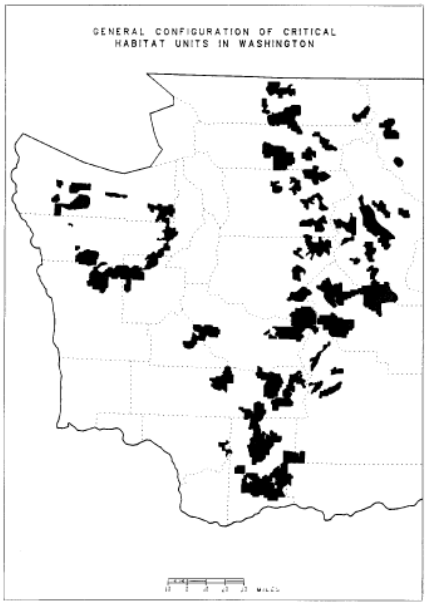

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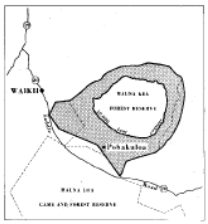
Primary constituent elements: forested lands that are used or potentially used by the northern spotted owl for nesting, roosting, foraging, or dispersing.

Palila (Psittirostra bailleui)

Hawaii. An area of land, water, and airspace on the island of Hawaii, Hawaii County, with the following components: (1) The State of Hawaii Mauna Kea Forest Reserve, except (a) that portion above the 10,000 foot contour line, (b) that portion south of the Saddle Road (State Highway 20), (c) lands owned by the United States in the Pohakuloa Training Area north of the Saddle Road (State Highway 20) established by Executive Order 1719 (Parcel 6, State of Hawaii Tax Map Key 4–4–16, Third Division). (d) that portion (Parcel 10, Kaohe IV, State of Hawaii Tax Map Key 4–4–16, Third Division) lying north of the Saddle Road (State Highway 20) and south of the Power Line Road; (2) that portion of the State of Hawaii Kaohe Game Management Area (Parcel 4, State of Hawaii Tax Map Key 4–4–15, Third Division) to the north and east of the Saddle Road (State Highway 20); (3) that portion of the Upper Waikii Paddock (Parcel 2, State of Hawaii Tax Map Key 4–4–15, Third Division) northeast of the Saddle Road (State Highway 20); (4) that portion of the lands of Humuula between Puu Kahinahina and Kole lying southeast of the Mauna Kea Forest Reserve fence (portions of Parcels 2, 3, and 7, State of Hawaii Tax Map Key 3–8–1, Third Division) which are included in the State conservation district.

Note:

Map follows:



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Piping Plover (Charadrius melodus)—Great Lakes Breeding Population

1. Critical habitat units are depicted for St. Louis County, Minnesota; Douglas, Ashland, Marinette, and Manitowoc Counties, Wisconsin; Lake County, Illinois; Porter County, Indiana; Erie and Lake Counties, Ohio; Erie County, Pennsylvania; Oswego and Jefferson Counties, New York; and Alger, Schoolcraft, Luce, Mackinac, Chippewa, Iosco, Presque Isle, Cheboygan, Emmet, Charlevoix, Leelanau, Benzie, Mason, and Muskegon Counties, Michigan, on the maps below.

2. i. The primary constituent elements required to sustain the Great Lakes breeding population of the piping plover are found on Great Lakes islands and mainland shorelines that support open, sparsely vegetated sandy habitats, such as sand spits or sand beaches, that are associated with wide, unforested systems of dunes and inter-dune wetlands. In order for habitat to be physically and biologically suitable for piping plovers, it must have a total shoreline length of at least 0.2 km (0.12 mi) of gently sloping, sparsely vegetated (less than 50 percent herbaceous and low woody cover) sand beach with a total beach area of at least 2 hectares (ha) (5 acres (ac)) and a low level of disturbance from human activities and from domestic animals. As the nesting season progresses, the level of disturbance tolerated by piping plovers increases. A lower level of disturbance is required at the beginning of the nesting period during nest site selection, egg laying, and incubation. Beach activities that may be associated with a high level of disturbance include, but are not limited to, walking pets off leash, loud noise, driving ATVs, or significantly increased human presence. The level of disturbance is relative to the proximity to the nest, intensity, and frequency of these and other similar activities.

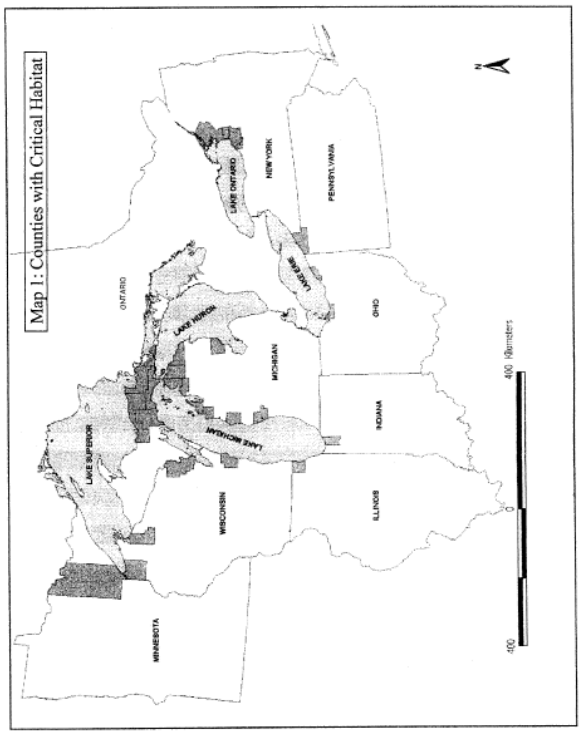
ii. Appropriately sized sites must also have areas of at least 50 meters (m) (164 feet (ft)) in length where the beach width is more than 7 m (23 ft), there is protective cover for nests and chicks, and the distance to the treeline (from the normal high water line to where the forest begins) is more than 50 m (164 ft). Beach width is defined as the distance from the normal high water line to the foredune (a low barrier dune ridge immediately inland from the beach) edge, or to the sand/vegetation boundary in areas where the foredune is absent. The beach width may be narrower than 7 m (23 ft) if appropriate sand and cobble areas of at least 7 m (23 ft) exist between the dune and the treeline. Protective cover for nests and chicks consists of small patches of herbaceous vegetation, cobble (stones larger than 1 cm (0.4 inches (in)) diameter), gravel (stones smaller than 1 cm (0.4 in) diameter), or debris such as driftwood, wrack, root masses, or dead shrubs.

iii. The dynamic ecological processes that create and maintain piping plover habitat are also important primary constituent elements. These geologically dynamic lakeside regions are controlled by processes of erosion, accretion, plant succession, and lake-level fluctuations. The integrity of the habitat components depends upon regular sediment transport processes, as well as episodic, high-magnitude storm events. By their nature, Great Lakes shorelines are in a constant state of change; habitat features may disappear, or be created nearby. The critical habitat boundaries reflect these natural processes and the dynamic character of Great Lakes shorelines.

3. Critical habitat does not include existing features and structures, such as buildings, marinas, paved areas, boat ramps, piers, bridges, lighthouses, and similar structures not containing one or more of the primary constituent elements.

Note:

Maps follows:



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Map of Units MN/WI–1, WI–1, WI–2, and WI–3

MN/WI–1: St Louis County, Minnesota. From USGS 1:24,000 quadrangle map West Duluth, Minnesota (1953, photorevised 1969). Lands 500 m (1640 feet) inland from normal high water line on Interstate Island in T49N R14W S10

WI–1: Douglas County, Wisconsin. From USGS 1:24,000 quadrangle maps Parkland, Wisconsin (1954, photorevised 1975) and Superior, Wisconsin (1954, photorevised 1983). Lands 500 meters (1640 feet) inland from normal high water line from the mouth of Dutchman Creek west-northwestward along the Lake Superior shoreline to the breakwall forming the Superior Front Channel opening to Lake Superior at the Douglas and St. Louis County line.

WI–2: Ashland County, Wisconsin. From USGS 1:24,000 quadrangle maps Cedar, Wisconsin (1964, photorevised 1975); Chequamegon Point, Wisconsin (1964, photorevised 1975); and Long Island, Wisconsin (1964). Lands 500 meters (1640 feet) inland from normal high water line from the southern boundary of T48N R3W, section 1 northwestward along the Lake Superior shoreline to Chequamegon Point Light.

WI–3: Ashland County, Wisconsin. From USGS 1:24,000 quadrangle map Michigan Island, Wisconsin (1963). Lands 500 meters (1640 feet) inland from normal high water line on Michigan Island within T51N R1W sections 28, 20, and 21.

Note:

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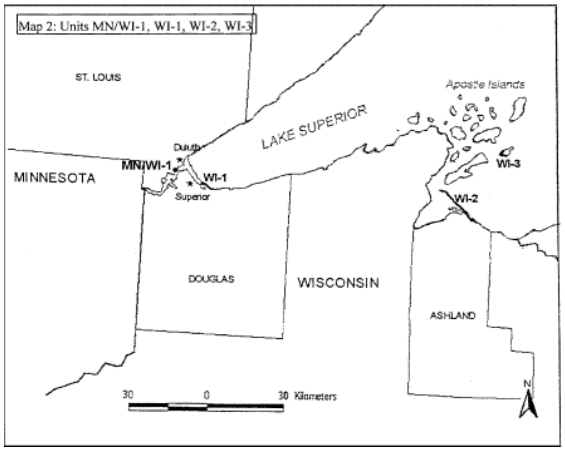

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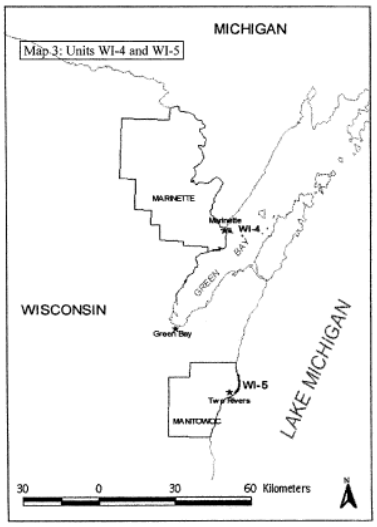
Map of Units WI–4 and WI–5

WI–4: Marinette County, Wisconsin. From USGS 1:24,000 quadrangle map Marinette East, Wisconsin (1963, photorevised 1969). Lands 500 m (1640 ft) inland from normal high water line from the end of Leonard Street at Red Arrow Park in T30N R24E section 9 south-southeastward to the south end of Seagull Bar including nearshore sand bars.

WI–5: Manitowoc County, Wisconsin. From USGS 1:24,000 quadrangle map Two Rivers, Wisconsin (1978). Lands 500 m (1640 ft) inland from normal high water line from the southwest property boundary of Point Beach State Forest near Neshotah Park in the city of Twin Rivers (T20N R25E section 31) northwestward along the Lake Michigan shoreline to the south boundary of section 9, T20N R25E, at Rawley Point.

Note:

Map follows:



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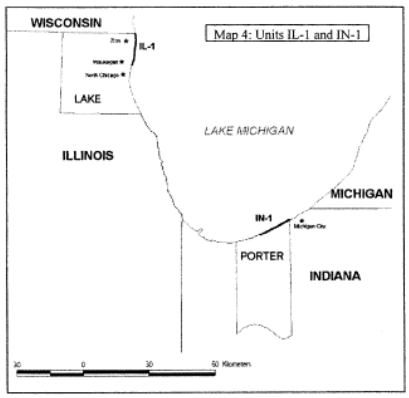
Map of Units IL–1 and IN–1

IL–1: Lake County, Illinois. From USGS 1:24,000 quadrangle maps Zion, Illinois (1993) and Waukegan, Illinois (1993). Lands 500 m (1640 ft) inland from normal high water line from 17th Street and the Lake Michigan shoreline in Illinois Beach State Park T46N R12E section 14 (Zion, Ill. quad) southward along the Lake Michigan shoreline (excluding the portion of Lake Michigan shoreline from dividing line of T46N R12E sections 23 and 26 to 500 m (1,640 ft) south of the Illinois Beach State Park Lodge and Conference Center) to the Waukegan Beach breakwall at North Beach Park T45N R12E section 22 (Waukegan quad).

IN–1: Porter County, Indiana. From USGS 1:24,000 quadrangle maps Ogden Dunes, Indiana (1991) and Dune Acres, Indiana (1991). Lands 500 m (1640 ft) inland from normal high water line from the western boundary of the Cowels Bog/Dune Acres Unit, (located east of the Port of Indiana and the NIPSCO Baily Generating Station) east-northeastward along the Indiana Dunes State Park to Kemil Road at Beverly Shores.

Note:

Map follows:



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Map of Units MI–1 through MI–23

MI–1: Chippewa, Luce, and Alger Counties, Michigan. From USGS 1:24,000 quadrangle maps Whitefish Point, Michigan (1951); Vermilion, Michigan (1951); Betsy Lake North, Michigan (1968); Muskallonge Lake East, Michigan (1968); Muskallonge Lake West, Michigan (1968); and Grand Marais, Michigan (1968). Lands 500 m (1640 ft) inland from normal high water line within the junction of the southern boundary of T50N R5W section 6 (Whitefish Point quad) and including the shore of Lake Superior following the shoreline northeast to Whitefish Point, then following the Lake Superior shoreline westward around the point(Vermilion SE, Vermilion quads), crossing the Luce County line and continuing westward (Betsy Lake North, Betsy Lake Northwest) across the Alger County line (Grand Marais East) to Lonesome Point and the East Bay of the Sucker River (Grand Marais quad) and following the shoreline along the inner bay of Grand Marais Harbor past Carpenter Creek and ending at the shoreline north of the east end of the private road originating at the junction of Highway 58, Morris Road, and Veteran Road. The unit then continues from the breakwall north of the harbor, along the Lake Superior shoreline of Grand Marais near the former Coast Guard station (Grand Marais quad) westward along the Lake Superior shoreline to the Pictured Rocks National Lakeshore property boundary in T49N R14W section 1.

MI–2: Mackinac County, Michigan. From USGS 1:24,000 quadrangle map Pointe Aux Chenes, Michigan

(1964, photorevised 1975). Lands 500 m (1640 ft) inland from normal high water line from the mouth of the Pointe Aux Chenes river following the Lake Michigan shoreline northwestward to the Hiawatha National Forest property boundary at the junction of T41N R5W sections 23 and 26.

MI–3: Schoolcraft and Mackinac Counties, Michigan. From USGS 1:24,000 quadrangle map Hughes Point, Michigan (1972). Lands 500 m (1640 ft) inland from normal high water line from the westernmost breakwall at the Port Inland Gaging Station following the Lake Michigan shoreline eastward along Hughes Point to the mouth of Swan Creek.

MI–4: Emmet County, Michigan. From USGS 1:24,000 quadrangle maps Big Stone Bay, Michigan (1964, photoinspected 1975); Waugoshance Island, Michigan (provisonal 1982); Bliss, Michigan (1982); Cross Village, Michigan (1982). Lands 500 m (1640 ft) inland from normal high water line from the junction of the northeast corner of T39N R5W section 28 (Big Stone Bay quad) and Lake Michigan shoreline westward along the shoreline around and including Temperance and Waugoshance islands and any nearshore sandbars (Waugoshance Island quad), along the southern side of Waugoshance Point following the shoreline southeastward to Big Sucker Creek, continuing southward and southwestward along Sturgeon Bay Point (Bliss quad) and continuing southward along the Lake Michigan shoreline to the southwest boundary of T37N R6W section 5.

MI–5: Emmet County, Michigan. From USGS 1:24,000 quadrangle map Forest Beach, Michigan. Lands 500 m (1640 ft) inland from normal high water line from the junction of Lake Michigan shoreline and the northwest boundary of T36N R6W section 30 south-southeastward along Lake Michigan shoreline to the junction of the shoreline and the southeast corner of T35N R6W section 9.

MI–6: Emmet County, Michigan. From USGS 1:24,000 quadrangle map Harbor Springs, Michigan. Lands 500 m (1640 ft) inland from normal high water line from the mouth of Tannery Creek north along Lake Michigan shoreline of Little Traverse Bay crossing the northern property boundary of Petoskey State Park to include the shoreline of Mononaqua Beach within T35N R5W sections 22 and 21.

MI–7: Charlevoix County, Michigan. From USGS 1:24,000 quadrangle maps Ironton, Michigan (1983) and Charlevoix, Michigan (1983). Lands 500 m (1640 ft) inland from normal high water line within T34N R8W section 14.

MI–8: Charlevoix County, Michigan. From USGS 1:24,000 quadrangle map Charlevoix, Michigan (1983). Lands 500 m (1640 ft) inland from normal high water line from the junction of the line separating T34N R8W section 31 and T33N R8W section 6 with the Lake Michigan shore then extends southwestward along the shoreline and including Fisherman's Island to the Fisherman's Island State Park property boundary at the end of Lakeshore Drive where it meets the line between T33N R9W sections 12 and 1.

MI–9: Charlevoix County, Michigan. From USGS 1:24,000 quadrangle maps Garden Island West, Michigan (1980) and Beaver Island North (1986). Lands 500 m (1640 ft) inland from normal high water line from Indian Point (Garden Island West quad) T39N R10W section 20 southward along the west Lake Michigan shoreline of Beaver Island including Donegal Bay and McCauley Point and ending at the junction of the dividing line of T39 N R10W and T38N R10W and the Lake Michigan shoreline (Beaver Island North quad).

MI–10: Charlevoix County, Michigan. From USGS 1:24,000 quadrangle map Beaver Island North (1986). Lands 500 m (1640 ft) inland from normal high water line from the junction of Lake Michigan and the northwest corner of T38N R11W section 25 southward along the Lake Michigan shoreline to the junction of the Lake Michigan shoreline and the dividing line between T39N and T38N R11W.

MI–11: Charlevoix County, Michigan. From USGS 1:24,000 quadrangle map High Island(1986). Lands 500 m (1640 ft) inland from normal high water line within T39N R11W sections 27 and 32 and T38N R11W section 5.

MI–12: Leelanau County, Michigan. From USGS 1:24,000 quadrangle maps Northport, Michigan (provisional 1983)and Northport NW, Michigan (provisional 1983). Lands 500 m (1640 ft) inland from normal high water line from the intersection of the Lake Michigan shoreline and the line between T32N R11W section 12 and T32N R10W section 7—excluding lands covered by the Magic Carpet Woods Association HCP, approximately 2,600 feet of frontage on Cathead Bay within the east half of the southwest quarter and the west half of the southeast quarter of Section 14, T32N, R11W in Leelanau Township—then following the shoreline southwestward and past Cathead Point in T32N R11W section 15 (Northport quad) southwestward along the Lake Michigan shoreline to the intersection of the shoreline with the southern boundary of T32N R11W section 16 north of Christmas Cove (Northport NW quad).

MI–13: Leelanau County, Michigan. From USGS 1:24,000 quadrangle map South Fox Island (provisional 1986). Lands 500 m (1640 ft) inland from normal high water line within T34N R13W sections 15, 16, and 21 and T35R13W section 30.

MI–14: Leelanau County, Michigan. From USGS 1:24,000 quadrangle map North Manitou Island (provisional 1983). Lands 500 m (1640 ft) inland from normal high water line within T31N R14W sections 22, 23, 27 and 28 on North Manitou Island.

MI–15: Leelanau County, Michigan. From USGS 1:24,000 quadrangle maps Glen Arbor, Michigan (1983); Glen Haven, Michigan (1983); and Empire, Michigan (1983). Lands 500 m (1640 ft) inland from normal high water line from Crystal Run in T29N R14W section 14 (Glen Arbor quad) south-southwestward and westward along the Lake Michigan shoreline, then west-northwestward to Sleeping Bear Point (Glen Haven quad) and southwestward and south to the southern Sleeping Bear Dunes National Lakeshore property boundary in T28N R15W section 13 (Empire quad).

MI–16: Benzie County, Michigan. From USGS 1:24,000 quadrangle maps Empire, Michigan (1983); Beulah, Michigan (provisional 1983); and Frankfort, Michigan (1983). Lands 500 m (1640 ft) inland from normal high water line from Esch Road in T27N R15W section 1 (Empire quad) south-southwestward along the shoreline of Lake Michigan at Platte Bay (Beulah quad), then westward along the shoreline of Lake Michigan to Platte River Point (Frankfort quad) continuing west-southwestward to the Sleeping Bear Dunes National Lakeshore property boundary at Sutter Road in T27N R16Wsection 26. Continuing from the junction of Lake Michigan shoreline and Point Betsie Natural Area property boundary in T27N R16W section 33 southward along the Lake Michigan shoreline to include all shoreline within T26N16W section 4.

MI–17: Mason County, Michigan. From USGS 1:24,000 quadrangle maps Manistee NW, Michigan (provisional 1923) and Hamlin Lake, Michigan (1982). Lands 500 m (1640 ft) inland from normal high water line from the mouth of Cooper Creek T20N R18W section 13 (Manistee NW quad) south-southwestward following the Lake Michigan shoreline along Big Sable Point (Hamlin Lake quad) to the mouth of the Big Sable River T19N R18W section 19.

MI–18: Muskegon County, Michigan. From USGS 1:24,000 quadrangle map Muskegon West (1972,

photoinspected 1980) and Dalton (1983). Lands 500 m (1640 ft) inland from normal high water line from the north breakwall of the canal joining Muskegon Lake and Lake Michigan (Muskegon West quad) north along the Lake Michigan shoreline to the northern Muskegon State Park property boundary at the shoreline (Dalton quad).

MI–19: Chippewa County, Michigan. From USGS 1:24,000 quadrangle maps Albany Island, Michigan (1964, photoinspected 1976) and DeTour Village, Michigan (1964). Lands 500 m (1640 ft) inland from normal high water line from the State Forest boundary in T41N R3E section 11 (Albany Island quad) and follows the Lake Huron shoreline east south eastward around and including St. Vital Point and then north to the mouth of Joe Straw Creek in T41N R3E section 12(De Tour Village quad).

MI–20: Cheboygan County, Michigan. From USGS 1:24,000 quadrangle maps Cheboygan, Michigan (1982) and Cordwood Point, Michigan (1982). Lands 500 m (1640 ft) inland from normal high water line from the junction of the Lake Huron shoreline and the western boundary of T38N R1W section 22 (Cheboygan quad) eastward along the Lake Huron shoreline of Grass Bay, continuing to the western boundary of T38N R1E section 20 (Cordwood Point quad).

MI–21: Presque Isle County, Michigan. From USGS 1:24,000 quadrangle maps Roger's City, Michigan (1971) and Moltke, Michigan (1971). Lands 500 m (1640 ft) inland from normal high water line within T35N R5E section 6 and T36N R5E section 31 (Roger's City quad) continuing northwestward to the junction of Nagel Rd and Forty Mile Road at the junction of T36N R4E section 25 and T36N R5E section 30 (Moltke quad).

MI–22: Presque Isle County, Michigan. From USGS 1:24,000 quadrangle map Thompson's Harbor, Michigan (1971). Lands 500 m (1640 ft) inland from normal high water line from Black Point to Grand Lake Outlet including shoreline within T34N R7E sections 10, 11, 14, and 15.

MI–23: Iosco County, Michigan. From USGS 1:24,000 quadrangle map East Tawas, Michigan (1989). Lands 500 m (1640 ft) inland from normal high water line from the Tawas Sate Park boundary at the U.S. Coast Guard Station on the east side of Tawas Point southward along the Lake Huron shoreline including offshore sand spits and along the tip of the point and northeastward including all shoreline in T22N R8E section 34.

Note:

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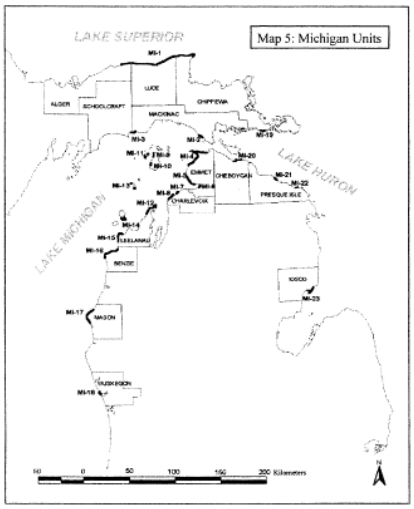

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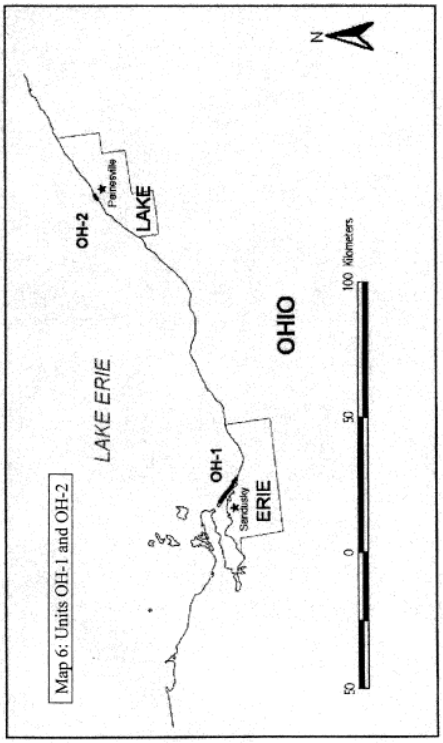
Map of Units OH–1 and OH–2

OH–1: Erie County, Ohio. From USGS 1:24,000 quadrangle maps Huron, Ohio (1969) and Sandusky, Ohio (1969, photorevised 1975). Lands 500 m (1640 ft) inland from normal high water line from the mouth of Sawmill Creek (Huron quad) northwestward along the Lake Erie shoreline to the western property boundary of Sheldon Marsh State Natural Area in T6N R23W (Sandusky quad) at the point where the Cedar Point causeway turns west and south toward Sandusky.

OH–2: Lake County, Ohio. From USGS 1:24,000 quadrangle map Mentor, Ohio (1963, revised 1992). Lands 500 m (1640 ft) inland from normal high water line from the eastern boundary line Headland Dunes Nature Preserve westward along the Lake Erie shoreline to the western boundary of the Nature Preserve and Headland Dunes State Park.

Note:

Map follows:



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Map of Unit PA–1

PA–1: Erie County, Pennsylvania. From USGS 1:24,000 quadrangle map Erie North, Pennsylvania (1957, revised 1969 and 1975, photoinspected 1977). Lands 500 m (1640 ft) inland from normal high water line from the lighthouse north of Peninsula Drive on the north side of Presque Isle (located at approximately 042 degrees 09'57.41" N and 080 degrees 06'57.57" W) eastward along the Lake Erie shoreline around the tip of Presque Isle peninsula to the southern terminus of the hiking trail on the southeast side of Gull Point (located at approximately 042 degrees 10'3.13" N and 080 degrees 04'29.56" W). It includes any new beach habitat that may accrete along the present shoreline portion of the unit.

Note:

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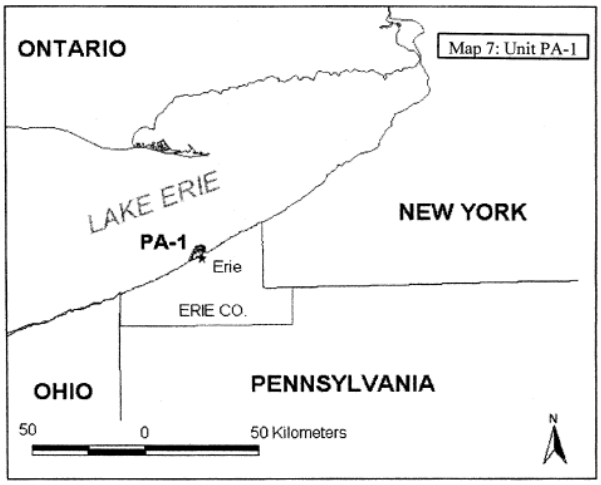

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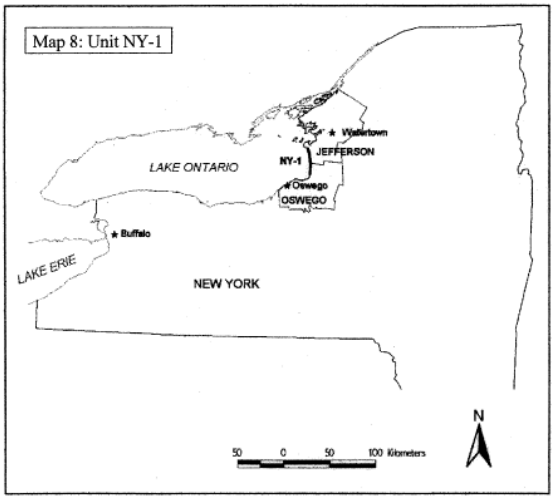
Map of Unit NY–1

NY–1: Oswego County, New York. From USGS 1:24,000 quadrangle maps Pulaski, New York (1956), Ellisburg, New York (1958), and Henderson, New York (1959). Lands 500 m (1640 ft) inland from normal high water line from the mouth of the Salmon River (Pulaski quad) northward along the Lake Ontario shoreline to the Oswego County-Jefferson County line (Ellisburg quad) and northward to the Eldorado Road (Henderson quad).

Note:

Map follows:



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Piping Plover (Charadrius melodus) Wintering Habitat

1. The primary constituent elements essential for the conservation of wintering piping plovers are those habitat components that support foraging, roosting, and sheltering and the physical features necessary for maintaining the natural processes that support these habitat components. The primary constituent elements include intertidal beaches and flats (between annual low tide and annual high tide) and associated dune systems and flats above annual high tide. Important components of intertidal flats include sand and/or mud flats with no or very sparse emergent vegetation. In some cases, these flats may be covered or partially covered by a mat of blue-green algae. Adjacent non-or sparsely vegetated sand, mud, or algal flats above high tide are also important, especially for roosting piping plovers, and are primary constituent elements of piping plover wintering habitat. Such sites may have debris, detritus (decaying organic matter), or micro-topographic relief (less than 50 cm above substrate surface) offering refuge from high winds and cold weather. Important components of the beach/dune ecosystem include surf-cast algae, sparsely vegetated backbeach and salterns (beach area above mean high tide seaward of the permanent dune line, or in cases where no dunes exist, seaward of a delineating feature such as a vegetation line, structure, or road), spits, and washover areas. Washover areas are broad, unvegetated zones, with little or no topographic relief, that are formed and maintained by the action of hurricanes, storm surge, or other extreme wave action.

2. Critical habitat does not include existing developed sites consisting of buildings, marinas, paved areas, boat ramps, exposed oil and gas pipelines and similar structures. Only those areas containing these primary constituent elements within the designated boundaries are considered critical habitat.

3. Below, we describe each unit in terms of its location, size, and ownership. These textual unit descriptions are the definitive source for determining the critical habitat boundaries. All distances and areas provided here are approximated. General location maps by State are provided at the end of each State's unit descriptions and are provided for general guidance purposes only, and not as a definitive source for determining critical habitat boundaries.

North Carolina (Maps were digitized using 1993 DOQQs, except NC–3 (1993 DRG)

Unit NC–1: Oregon Inlet. 404 ha (997 ac) in Dare County

This unit extends from the southern portion of Bodie Island to the northern portion of Pea Island. It includes all land south of the Oregon Inlet Marina and Fishing Center to 0.50 km (0.31 mile) south of the junction of Highway 12 and SR 1257. This unit includes lands from MLLW on the Pamlico Sound across (and including all land) to MLLW on Atlantic Ocean shoreline. Any emergent sandbars south and west of Oregon Inlet are included.

Unit NC–2: Cape Hatteras Point. 465 ha (1149 ac) in Dare County

The majority of the unit is within Cape Hatteras National Seashore. This unit extends south from the Cape Hatteras Lighthouse to the point of Cape Hatteras and then extends west 6.4 km (4.0 mi) along Hatteras Cove shoreline. The unit includes lands from the MLLW on the Atlantic Ocean and stops landward where densely vegetated habitat, not used by the piping plover, begins and where constituent elements no longer occur.

Unit NC–3: Clam Shoals. 28 ha (70 ac) in Dare County

The entire unit is owned by the State. This unit includes several islands in Pamlico Sound known as Bird Islands. This unit includes lands on all islands to the MLLW.

Unit NC–4: Hatteras Inlet. 516 ha (1273 ac) in Dare and Hyde Counties

The majority of the unit is surrounded by Cape Hatteras National Seashore, but is privately owned. This unit extends west from the end of Highway 12 on the western portion of Hatteras Island to 1.25 km (0.78 mi) southwest of the ferry terminal at the end of Highway 12 on Ocracoke Island. It includes all lands where constituent elements occur from MLLW on the Atlantic Ocean across to MLLW on Pamlico Sound. All emergent sandbars within Hatteras Inlet between Hatteras Island and Ocracoke Island are also included.

Unit NC–5: Ocracoke Island. 80 ha (197 ac) in Hyde County

The majority of this unit is within Cape Hatteras National Seashore. It includes the western portion of Ocracoke Island beginning 3.5 km (2.2 mi) west of the junction of Highway 12 and the local road (no name) extending west to Ocracoke Inlet. It includes all land from MLLW on the Atlantic Ocean across to MLLW on Pamlico Sound. All emergent sandbars within Ocracoke Inlet are also included.

Unit NC–6: Portsmouth Island-Cape Lookout. 3187 ha (7873 ac) in Carteret County

The entire unit is within Cape Lookout National Seashore. This unit includes all land to MLLW on Atlantic

Ocean to MLLW on Pamlico Sound, from Ocracoke Inlet extending west to the western end of Pilontary Islands. This unit includes the islands of Casey, Sheep, Evergreen, Portsmouth, Whalebone, Kathryne Jane, and Merkle Hammock. This unit also extends west from the eastern side of Old Drum Inlet to 1.6 km (1.0 mi) west of New Drum Inlet and includes all lands from MLLW on Atlantic Ocean to MLLW on Core Sound.

Unit NC–7: South Core Banks. 552 ha (1364 ac) in Carteret County

The entire unit is within Cape Lookout National Seashore. This unit extends south from Cape Lookout Lighthouse, along Cape Lookout, to Cape Point and northwest to the northwestern peninsula. All lands from MLLW on the Atlantic Ocean, Onslow Bay, and Lookout Bight up to where densely vegetated habitat, not used by the piping plover, begins and the constituent elements no longer occur are included.

Unit NC–8: Shackleford Banks. 716 ha (1769 ac) in Carteret County

The entire unit is within Cape Lookout National Seashore. This unit is in two parts: (1) The eastern end of Shackleford Banks from MLLW of Barden Inlet extending west 2.4 km (1.5 mi), including Diamond City Hills, Great Marsh Island, and Blinds Hammock; and, (2) The western end of Shackleford Banks from MLLW extending east 3.2 km (2.0 mi) from Beaufort Inlet. The unit includes all land from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur and any emergent sandbars within Beaufort Inlet. This unit is bordered by Onslow Bay, Shackleford Slue, and Back Sound.

Unit NC–9: Rachel Carson. 445 ha (1100 ac) in Carteret County

The entire unit is within the Rachel Carson National Estuarine Research Reserve. This unit includes islands south of Beaufort including Horse Island, Carrot Island, and Lennox Point. This unit includes entire islands to MLLW.

Unit NC–10: Bogue Inlet. 143 ha (354 ac) in Carteret and Onslow Counties

The majority of the unit is privately owned, with the remainder falling within Hammocks Beach State Park. This unit includes contiguous land south, west, and north of Bogue Court to MLLW line of Bogue Inlet on the western end of Bogue Banks. It includes the sandy shoals north and adjacent to Bogue Banks and the land on Atlantic Ocean side to MLLW. This unit also extends 1.3 km (0.8 mi) west from MLLW of Bogue Inlet on the eastern portion of Bear Island.

Unit NC–11: Topsail. 451 ha (1114 ac) in Pender County and Hanover County

The entire area is privately owned. This unit extends southwest from 1.0 km (0.65 mi) northeast of MLLW of New Topsail Inlet on Topsail Island to 0.53 km (0.33 mi) southwest of MLLW of Rich Inlet on Figure Eight Island. It includes both Rich Inlet and New Topsail Inlet and the former Old Topsail Inlet. All land, including emergent sandbars, from MLLW on Atlantic Ocean and sound side to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur. In Topsail Sound, the unit stops as the entrance to tidal creeks become narrow and channelized.

Unit NC–12: Figure Eight Island. 134 ha (331 ac) in New Hanover County

The majority of the unit is privately owned. This unit extends south from the western end of Beach Road on Figure Eight Island to the northern end of Highway 74 on Wrightsville Beach. The unit includes Mason Inlet and the sand and mudflats northwest of the inlet from MLLW on Atlantic Ocean to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit NC–13: Masonboro. 61 ha (150 ac) in New Hanover County

The entire unit is within the North Carolina National Estuarine Research Reserve. This unit extends 1.1 km (0.70 mi) south from the MLLW of Masonboro Inlet on Masonboro Island. This unit includes all lands along the Atlantic Ocean, Masonboro Inlet, and Masonboro Sound from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit NC–14: Carolina Beach Inlet. 374 ha (924 ac) in New Hanover County

The majority of the unit is within Myrtle Grove Sound on Masonboro Island and is owned by the North Carolina National Estuarine Research Reserve. It extends 1.80 km (1.12 mi) west along the south shoreline of Wolf Island from the mouth of the Altamaja sound. This unit extends south from 3.2 km (2.0 mi) north of MLLW at Carolina Beach Inlet on Masonboro Island to 1.1 km (0.70 mi) south of MLLW at Carolina Beach Inlet on Carolina Beach. It includes land from MLLW on Atlantic Ocean across and including lands to MLLW on the western side of Masonboro Island, excluding existing dredge spoil piles. Emergent sand bars within Carolina Beach Inlet are also included.

Unit NC–15: Ft. Fisher. 790 ha (1951 ac) in New Hanover and Brunswick Counties

This unit is within Ft. Fisher State Recreation Area and Zeke's Island Estuarine Reserve. This unit extends south from Ft. Fisher Islands (from the rocks), south of the ferry terminal, to approximately 0.8 km (0.5 mi) south of MLLW at Corn Cake Inlet on Smith Island. It includes all land (including Zeke's Island) from MLLW on Atlantic Ocean across to MLLW on the eastern side of the Cape Fear River.

Unit NC–16: Lockwood Folly Inlet. 36 ha (90 ac) in Brunswick County

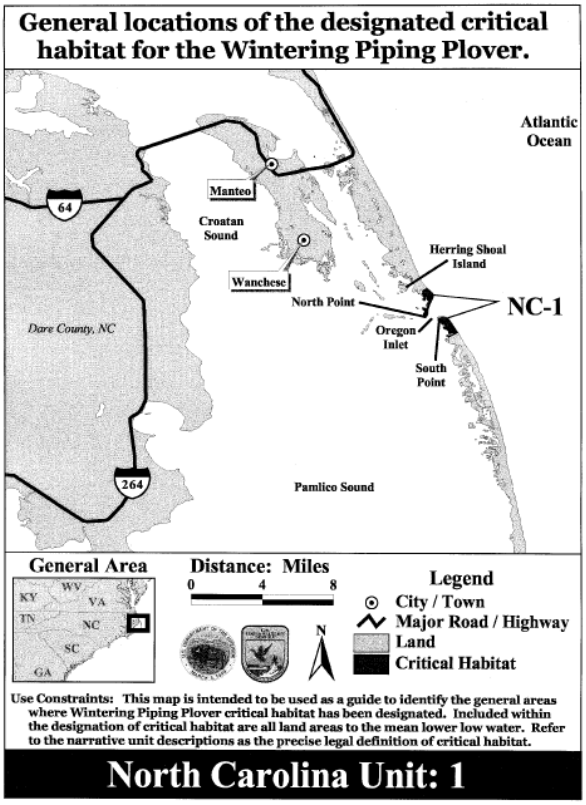
The entire unit is on Oak Island (formerly known as the Town of Long Beach) and is privately owned. This unit extends from the end of West Beach Drive, west to MLLW at Lockwood Folly Inlet, including emergent sandbars south and adjacent to the island. This unit is includes land from MLLW on Atlantic Ocean across to MLLW adjacent to the Eastern Channel and the Intracoastal Waterway.

Unit NC–17: Shallotte Inlet. 120 ha (296 ac) in Brunswick County

The entire unit is privately owned. This unit begins just west of Skimmer Court on the western end of Holden Beach. It includes land south of SR 1116, to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur to the MLLW along the Atlantic Ocean. It includes the contiguous shoreline from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur along the Atlantic Ocean, Shallotte Inlet, and Intracoastal Waterway stopping north of Skimmer Court Road. The unnamed island and emergent sandbars to MLLW within Shallotte Inlet are also included.

Unit NC–18: Mad Inlet. 112 ha (278 ac) in Brunswick County

The entire unit is privately owned. This unit extends west 1.2 km (0.75 mi) from the end of Main Street (SR 1177) on western Sunset Beach to the eastern portion of Bird Island and includes the marsh areas north of western Sunset Beach shoreline. The shoreline area begins at MLLW on the Atlantic Ocean and continues landward to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.



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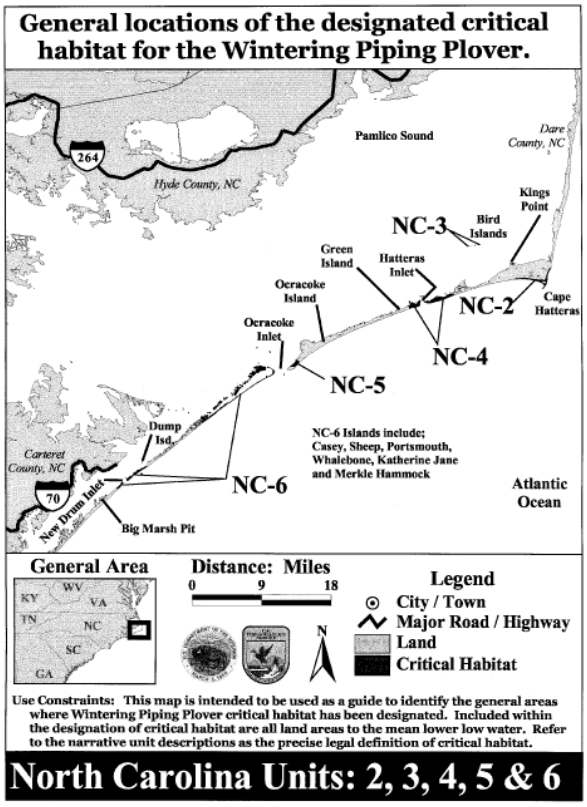

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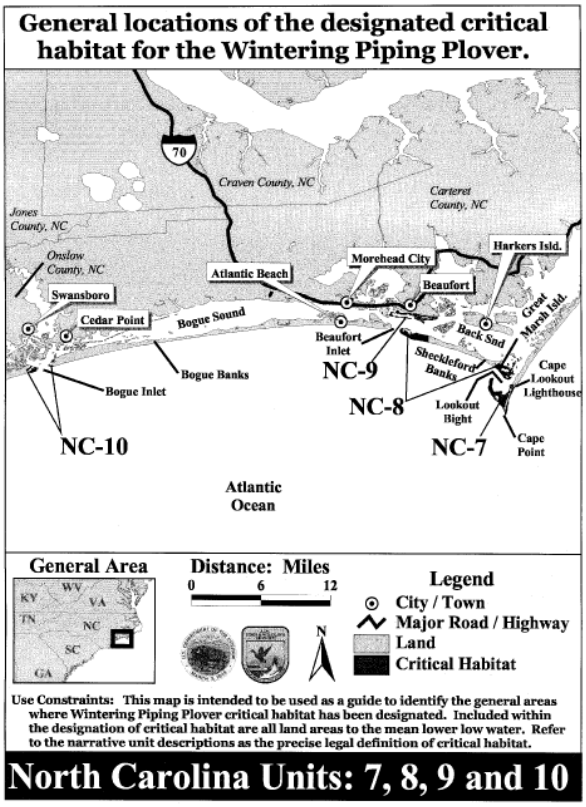

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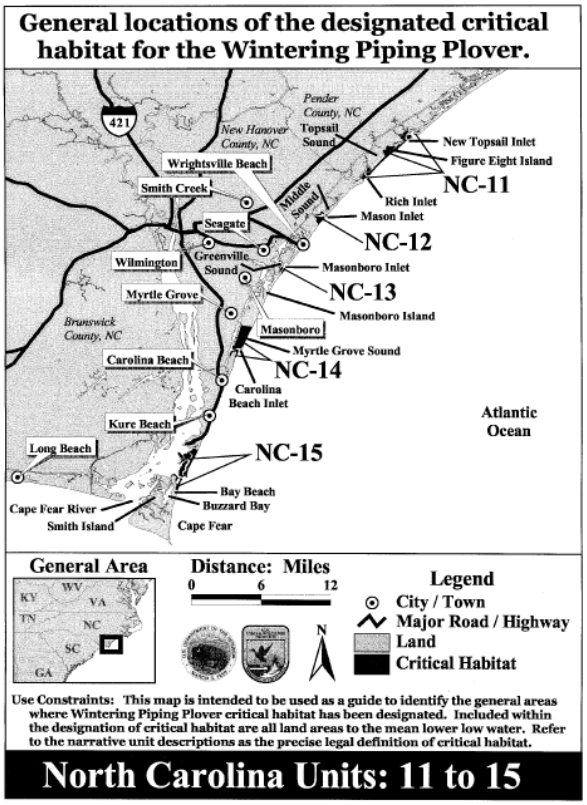

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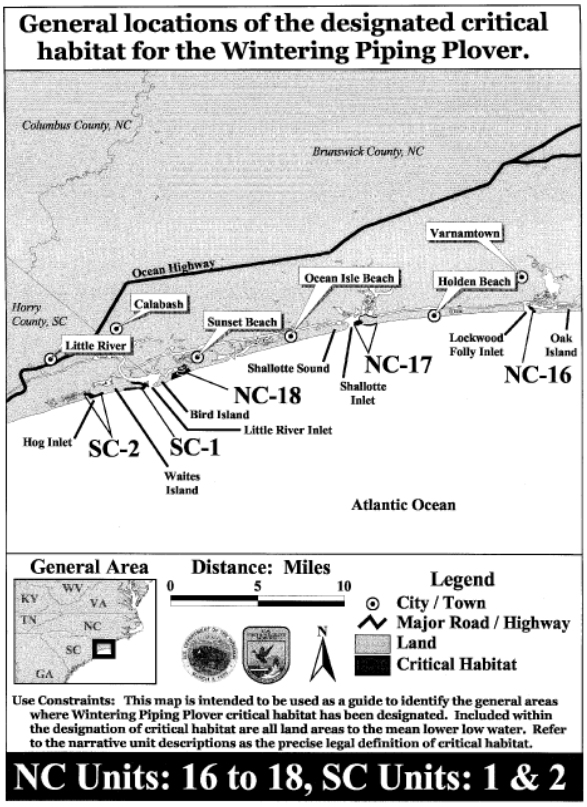

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South Carolina (Maps were digitized using 1994 DOQQs)

Unit SC–1: Waites Island-North. 75 ha (186 ac) in Horry County

This unit includes the northern tip of Waites Island from the MLLW at Little River Inlet and runs west along the Atlantic Ocean shoreline 2.0 km (1.25 mi) and includes land from the MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur. The unit continues north and west of Little River Inlet stopping at Sheephead Creek, including land from MLLW to dense vegetation line. The majority of the unit is privately owned.

Unit SC–2: Waites Island-South. 58 ha (142 ac) in Horry County

This unit includes the southern tip of Waites Island from the MLLW at Hog Inlet and runs east along the Atlantic Ocean shoreline 0.80 km (0.50 mi) and includes MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur. It continues north and west of the Hog Inlet, stopping at the first major tributary. Critical habitat includes from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur. Emerging sandbars within Hog Inlet and adjacent to the tip if eastern Cherry Grove Beach are also included from MLLW to where densely vegetated habitat or developed structures, not used by the piping plover, begins and where the constituent elements no longer occur. The majority of this unit is privately owned.

Unit SC–3: Murrells Inlet/Huntington Beach. 135 ha (334 ac) in Georgetown County

The majority of the unit is within Huntington Beach State Park. This unit extends from the southern tip of Garden City Beach, just south of the groins (a rigid structure or structures built out from a shore to protect the shore from erosion or to trap sand) north of Murrells Inlet from MLLW to where densely vegetated habitat or developed structures, not used by the piping plover, begins and where the constituent elements no longer occur stopping perpendicular with the southern end of Inlet Point Drive. It includes from MLLW south of Murrells Inlet to the northern edge of North Litchfield Beach approximately 4.5 km (3.0 mi). The unit includes the MLLW from the Atlantic Ocean up to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur. The lagoon at the north end of Huntington Beach State Park is also included.

Unit SC–4: Litchfield. 11 ha (28 ac) in Georgetown County

This unit includes the southern tip of Litchfield Beach beginning 0.50 km (0.30 mi) north of Midway Inlet and stopping at the MLLW at Midway Inlet. It includes from the MLLW on the Atlantic Ocean shoreline across and including land to the MLLW on the back bayside. This unit is mostly privately owned.

Unit SC–5: North Inlet. 99 ha (245 ac) in Georgetown County

The majority of the unit is within Tom Yawley Wildlife Center Heritage Preserve. This unit extends from MLLW to 1.0 km (.62 mi) north of North Inlet on Debidue Beach. It includes shoreline on the Atlantic Ocean from MLLW to the MLLW on the western side of the peninsula. This unit also includes from the MLLW south of North Inlet 1.6 km (1.0 mi). It includes the shoreline on the Atlantic Ocean from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur. It includes shoreline running south and west of the inlet from the MLLW stopping at the MLLW at the first large tributary (no name).

Unit SC–6: North Santee Bay Inlet. 305 ha (753 ac) in Georgetown County

The majority of the unit is within the Tom Yawley Wildlife Center Heritage Preserve and the Santee-Delta Wildlife Management Area. This unit is at the North Santee Bay inlet and includes lands of South Island, Santee Point, Cedar Island, and all of North Santee Sandbar. This unit includes from MLLW at North Santee

Bay Inlet running north along the Atlantic Ocean side of South Island 7.2 km (4.5 mi), stopping 0.60 km (0.4 mi) north of an unnamed inlet. It includes areas from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur. This unit includes the eastern side of Cedar Island adjacent to the North Santee Bay Inlet from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur. All of North Santee Sandbar to MLLW is included.

Unit SC–7: Cape Romain. 315 ha (777 ac) in Charleston County

The majority of the unit is within Cape Romain National Wildlife Refuge. This unit includes the MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur on the southern and southeastern most 1.9 km (1.2 mi) portion of Cape Island, the southernmost portion of Lighthouse Island from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur, all of Lighthouse Island South to MLLW, and the southern side of the far eastern tip of Raccoon Key from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit SC–8: Bull Island. 134 ha (332 ac) in Charleston County

The majority of the unit is within Cape Romain National Wildlife Refuge and land owned by the South Carolina Department of Natural Resources. This unit includes from Schooner Creek on north and south of the river to north of Price's Inlet on the southern portion of Bull Island along the Atlantic Ocean 1.6 km (1.0 mi) and south of Price's Inlet on the northeast tip of Capers Island Heritage Preserve 1.4 km (.86 mi) along the Atlantic Ocean. All areas begin at MLLW and extend to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit SC–9: Stono Inlet. 495 ha (1223 ac) in Charleston County

Most of this unit is privately owned. It includes the eastern end of Kiawah Island (approximately 4.0 km (2.5 mi)) from MLLW on Atlantic Ocean running north to MLLW on first large tributary connecting east of Bass Creek running northeast into Stono River. It includes MLLW up to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur along Stono Inlet and River. All of Bird Key-Stono Heritage Preserve and all of Skimmer Flats to MLLW are included. The Golf course and densely vegetated areas are not included.

Unit SC–10: Seabrook Island. 117 ha (290 ac) in Charleston County

This unit runs from just 0.16 km (0.10 mi) north of Captain Sams Inlet to the southwest approximately 3.4 km (2.1 mi) along the Atlantic Ocean shoreline. It includes land areas from the MLLW on the Atlantic Ocean to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur. Most of this unit is privately owned.

Unit SC–11: Deveaux Bank. 130 ha (322 ac) in Charleston County

The entire unit is within Deveaux Bank Heritage Preserve. This unit includes all of Deveaux Island to the MLLW and is State-owned.

Unit SC–12: Otter Island. 68 ha (169 ac) in Colleton County

The majority of the unit is within St. Helena Sound Heritage Preserve. This unit includes the southern portion of Otter Island to the eastern mouth of Otter Creek. It includes the MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur. The entire unit is State-owned.

Unit SC–13: Harbor Island. 50 ha (122 ac) in Beaufort County

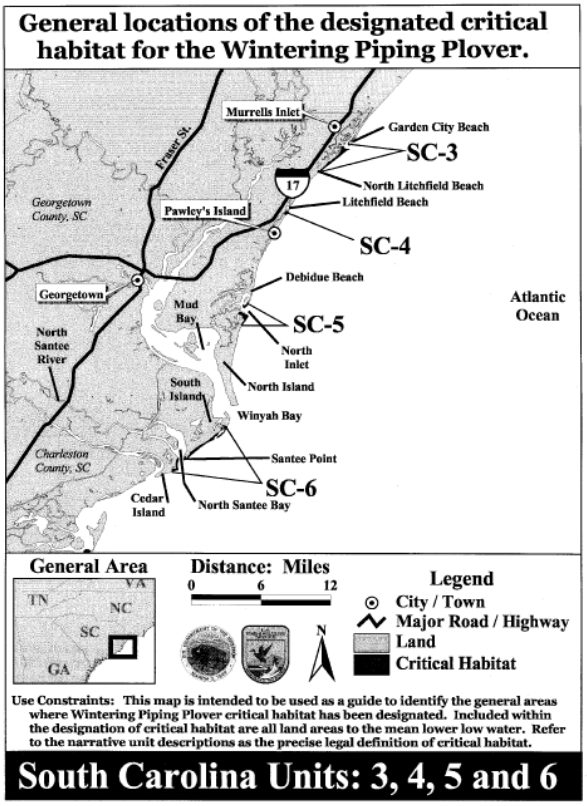
The majority of the unit is State-owned. This unit extends from the northeastern tip of Harbor Island and includes all of Harbor Spit. It begins at the shoreline east of Cedar Reef Drive running south, stopping at the mouth of Johnson Creek. It includes the MLLW on the Atlantic Ocean and St. Helena Sound to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur. All of Harber Spit to MLLW is included.

Unit SC–14: Caper's Island. 238 ha (589 ac) in Beaufort County

Most of this unit is privately owned. This unit includes the southern-most 4.5 km (2.8 mi) along the Atlantic Coast shoreline of Little Caper's Island beginning at MLLW on south side of the inlet (un-named). It includes the MLLW on the Atlantic Ocean shoreline to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit SC–15: Hilton Head. 43 ha (106 ac) in Beaufort County

The majority of this unit is State-owned. This unit includes the northeastern tip (Atlantic Ocean side) of Hilton Head Island and all of Joiner Bank. It begins at the shoreline east of northern Planters Row and ends at the shoreline east of Donax Road. It includes the MLLW of Port Royal Sound and the Atlantic Ocean to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur. All of Joiner Bank to MLLW is included.



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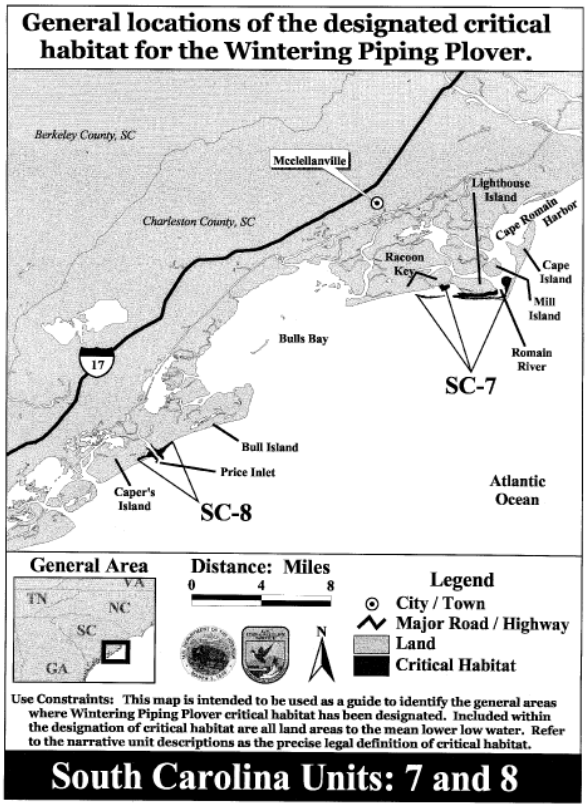

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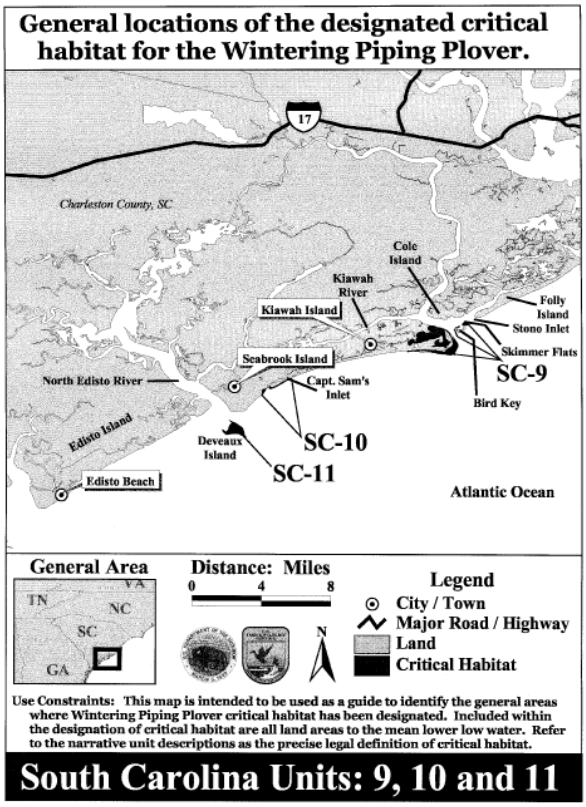

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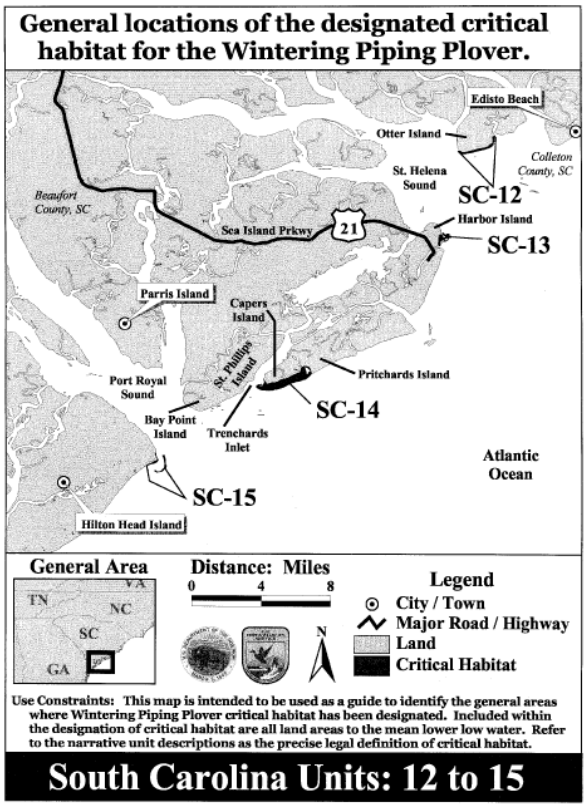

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Georgia (Maps were digitized using 1993–94 DOQQs)

Unit GA–1: Tybee Island. 37 ha (91 ac) in Chatham County

The majority of the unit is privately owned. This unit extends along the northern tip of Tybee Island starting from 0.8 km (0.5 mi) northeast from the intersection of Crab Creek and Highway 80 to 0.7 km (0.41 mi) northeast from the intersection of Highway 80 and Horse Pen Creek. The unit includes MLLW on Savannah River and Atlantic Ocean to where densely vegetated habitat or developed structures, not used by the piping plover, begin and where the constituent elements no longer occur.

Unit GA–2: Little Tybee Island. 719 ha (1776 ac) in Chatham County

The majority of the unit is within Little Tybee Island State Heritage Preserve. This unit extends just south of the first inlet to Wassaw Sound along the Atlantic Ocean coastline, extending north along the sound 1.7 km

(1.1 mi). It includes habitat from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit GA–3: North Wassaw Island. 108 ha (267 ac) in Chatham County

The entire unit is within Wassaw National Wildlife Refuge. This unit includes the north-east tip of Wassaw Sound, 1.6 km (1.0 mi) along the inlet side and extending south along the Atlantic Ocean shoreline for 1.6 km (1.0 mi). It includes land from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit GA–4: South Wassaw Island. 61 ha (151 ac) in Chatham County

The entire unit is within Wassaw National Wildlife Refuge. This unit extends from the last southern 1.6 km (1.0 mi.) on Atlantic Ocean side, around the southern tip of Wassaw Island, up to mouth of Odingsell River. It includes land from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit GA–5: Ossabaw Island. 434 ha (1072 ac) in Chatham County

The entire unit is within Ossabaw Island State Heritage Preserve. This unit includes the northeastern tip from the mouth of the Bradley River east and 12 km (7.5 mi) south along the Atlantic Ocean shoreline to a point 0.4 km (0.25 mi) past the south-center inlet. It includes land from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit GA–6: St. Catherine's Island Bar. 54 ha (135 ac) in Liberty County

The entire unit is State owned and located east-northeast of St. Catherine's Island. This unit includes the entire St. Catherine's Island Bar to MLLW.

Unit GA–7: McQueen's Inlet. 215 ha (532 ac) in Liberty County

The majority of the unit is private land along the eastern-central coastline on St. Catherine's Island. This unit extends from McQueen's Inlet north approximately 3.5 km (2.2 mi) and south approximately 1.8 km (1.1 mi). It includes land from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit GA–8: St. Catherine's Island. 60 ha (147 ac) in Liberty County

The majority of the unit is private land on the southern tip of St. Catherine's Island. This unit starts 1.2 km (0.75 mi) north of Sapelo Sound (along Atlantic Ocean shoreline) and stops inland at Brunsen Creek. It includes land from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit GA–9: Blackbeard Island. 129 ha (319 ac) in McIntosh County

The entire unit is within the Blackbeard Island National Wildlife Refuge. This unit includes the northeastern portion of the island beginning just east of the mouth of the confluence of McCloy Creek and Blackbeard Creek and continuing east and running south along the Atlantic Ocean shoreline for 1.4 km (.90 mi). It includes land from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit GA–10: Sapelo Island. 85 ha (210 ac) in McIntosh County

The entire unit is State-owned and within Sapelo Island. The unit extends south of Cabretta Tip approximately 0.2 km (0.13 mi) and north of Cabretta Tip 1.6 km (1.0 mi). It includes land from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit GA–11: Wolf Island. 238 ha (590 ac) in McIntosh County

The majority of the unit is within Wolf Island National Wildlife Refuge and private lands just north of the Refuge. This unit includes the southeastern tip of Queen's island adjacent to the Doboy Sound and includes the eastern shoreline of Wolf Island. It includes land from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit GA–12: Egg Island Bar. 61 ha (151 ac) in McIntosh County

This unit is State owned and includes all of Egg Island Bar to the MLLW.

Unit GA–13: Little St. Simon's Island. 609 ha (1505 ac) in Glynn County

The majority of the unit is private land on Little St. Simon's Island. This unit includes the entire eastern coastline along Little St. Simon's Island. It begins 1.1 km (.70 mi) west of the northeast tip of Little St. Simon's Island and runs east and then south along the Atlantic Ocean shoreline stopping at the minor tributary (no name) on the southeast tip of Little St. Simon's Island north of Hampton Creek. It includes land from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur. All of Pelican Spit to MLLW is included when this sand bar is emergent.

Unit GA–14: Sea/St. Simon's Island. 191 ha (471 ac) in Glynn County

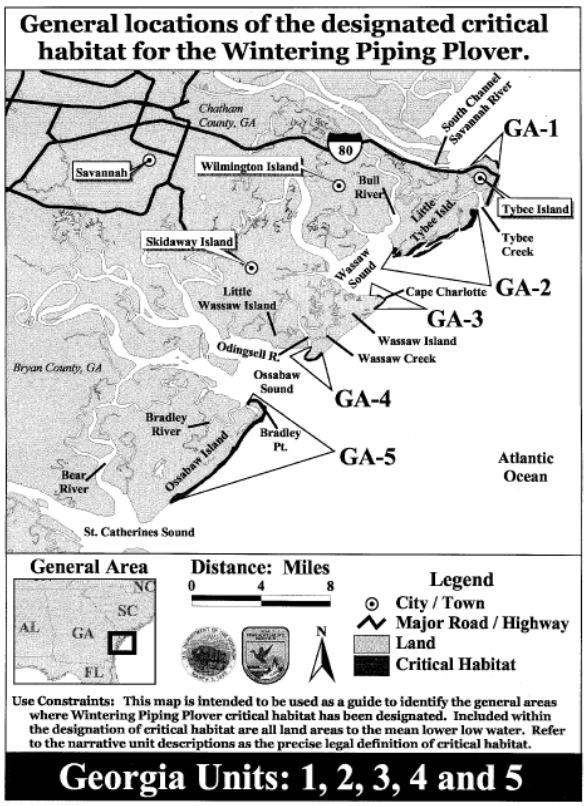
The majority of the unit is private land on the south tip of Sea Island and on the east beach of St. Simons Island. This unit extends north of Gould's Inlet (Sea Island) 2.5 km (1.54 mi) starting just south of the groin and extends south of Gould's Inlet (St. Simons Island) 1.6 km (1.0 mi). It includes land from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit GA–15: Jekyll Island. 49 ha (121 ac) in Glynn County

The majority of the unit is within State lands on Jekyll Island. This unit includes the southern region of Jekyll Island beginning at the mouth of Beach Creek, running towards the tip of Jekyll Island and includes the shoreline running north along the Atlantic Ocean shoreline 1.9 km (1.20 mi) from the southern tip of Jekyll Island. It includes land from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit GA–16: Cumberland Island. 1454 ha (3591 ac) in Camden County

The majority of the unit is along Cumberland Island Wilderness Area and Cumberland Island National Seashore. This unit includes the majority of the eastern Atlantic Ocean shoreline of Cumberland Island. It begins .50 km (.31 mi) north of the inlet at Long Point, continues south along the Atlantic Ocean shoreline stopping 1.8 km (1.1 mi) west of the southern tip of Cumberland Island National Seashore. It includes land from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.



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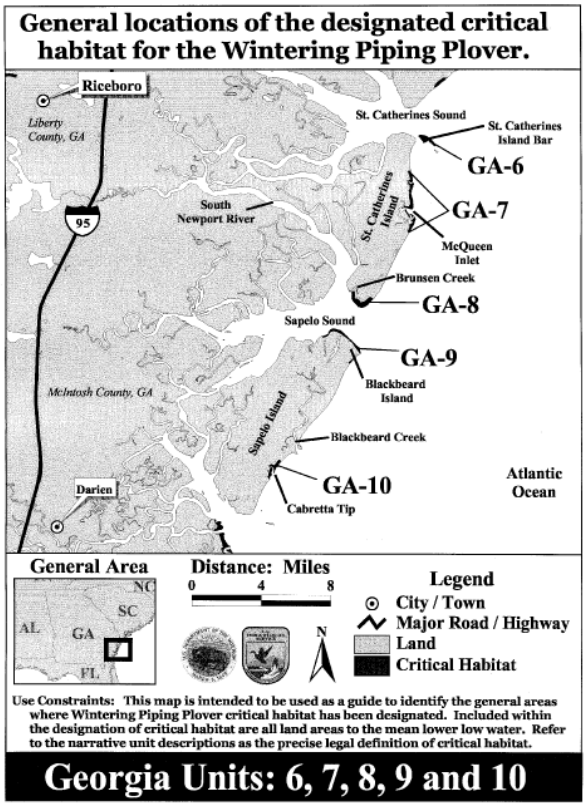

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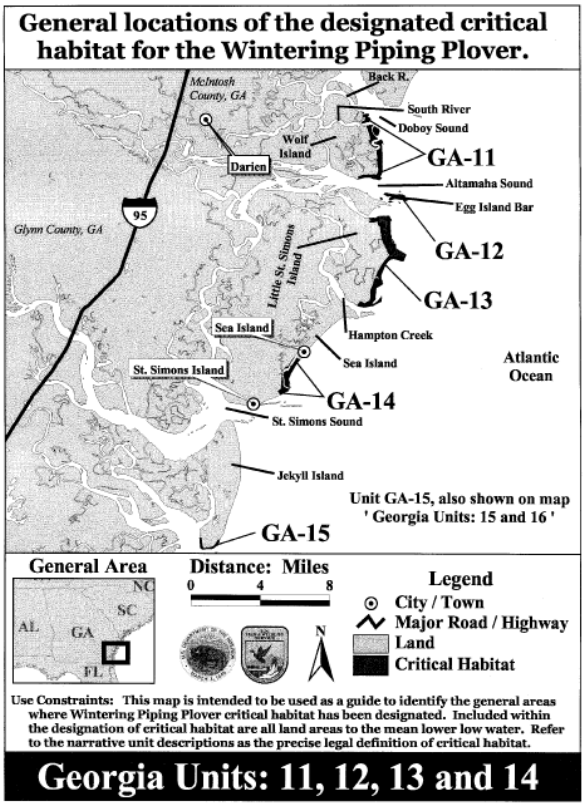

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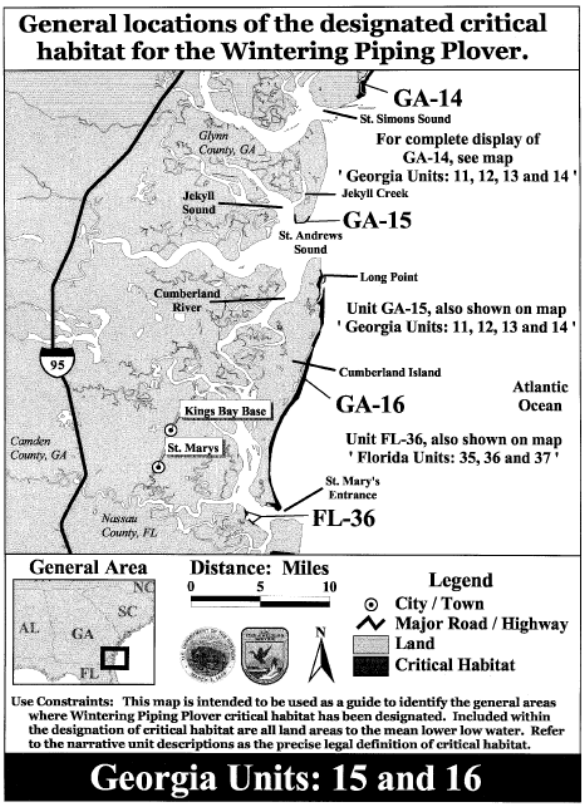

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Florida (Maps were digitized using 1994–95 DOQQs)

Unit FL–1: Big Lagoon. 8 ha (19 ac) in Escambia County

The majority of the unit is within Big Lagoon State Recreation Area. This unit includes the peninsula and emerging sand and mudflats between 0.33 km (0.21 mi) west of the lookout tower along the shoreline and 0.24 km (0.15 mi) east of the lookout tower along the shoreline. Land along the shoreline from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur. All emerging sandbars to MLLW are included.

Unit FL–2: Big Sabine. 182 ha (450 ac) in Escambia County

The majority of the unit is owned by the University of West Florida. This unit includes areas adjacent to Santa Rosa Sound of Big Sabine Point and adjacent embayment between 8.0 km (5.0 mi) and 11.6 (7.2 mi)

east of the Bob Sike's Bridge. It begins 0.10 km (.06 mi) north of SR 399 to MLLW on the Santa Rosa Sound.

Unit FL–3: Navarre Beach. 48 ha (118 ac) in Escambia and Santa Rosa Counties

The majority of the unit is owned by Eglin Air Force Base and Santa Rosa Island Authority. This unit includes lands on Santa Rosa Island Sound side, between 0.09 and 0.76 mi east of the eastern end of SR 399 to MLLW on Santa Rosa Sound side.

Unit FL–5: Shell/Crooked Islands. 1789 ha (4419 ac) in Bay County

The majority of the unit is within Tyndall Air Force Base and St. Andrews State Recreation Area. This unit includes all of Shell Island, Crooked Island West, and Crooked Island East from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit FL–6: Upper St. Joe Peninsula. 182 ha (449 ac) in Gulf County

The majority of the unit is within St. Joseph State Park. This unit includes the northern portion of the peninsula from the tip to 8.0 km (5.0 mi) south along the Gulf of Mexico from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit FL–7: Cape San Blas. 158 ha (390 ac) in Gulf County

The entire unit is within Eglin Air Force Base. This unit includes the area known as the Cape between the eastern boundary of Eglin and mile marker 2.1, including the peninsula and all emerging sandbars. It includes land from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit FL–8: St. Vincent Island. 146 ha (361 ac) in Franklin County

The majority of the unit is within St. Vincent National Wildlife Refuge. This unit includes the western tip of St. Vincent Island that is adjacent to Indian Pass (0.80 km (0.50 mi) east of tip along Indian Pass, and 1.9 km (1.2 mi) from tip southeast along Gulf of Mexico). The unit also includes St. Vincent Point from the inlet at Sheepshead Bayou east 1.6 km (1.0 mi) to include emerging oysters shoals and sand bars and extends south 0.21 km (0.13 mi) of St. Vincent Point. The unit includes the southeastern tip of St. Vincent Island extending north 1.4 km (0.90 mi) and south and west 2.1 km (1.3 mi). The western tip of Little St. George Island 0.80 km (0.50 mi) from West Pass is included (state owned lands). All sections of this unit include land from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit FL–9: East St. George Island. 1433 ha (3540 ac) in Franklin County

The majority of the unit is within St. George State Park. This unit begins 5.3 km (3.3 mi) east of the bridge and extends to East Pass. Shell Point, Rattlesnake Cove, Goose Island, East Cove, Gap Point, and Marsh Island are included. This unit includes land from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur on the Gulf of Mexico, East Pass and St. George Sound.

Unit FL–10: Yent Bayou. 153 ha (378 ac) in Franklin County

The majority of the unit is State owned. This unit is adjacent to the area known as Royal Bluff. It includes the St. George Sound shoreline between 5.9 km (3.7 mi) and 9.5 km (5.9mi) east of SR 65. It includes from MLLW to where densely vegetated habitat or developed structures such as SR 65, not used by the piping plover, begin and where the constituent elements no longer occur.

Unit FL–11: Carabelle Beach. 56 ha (139 ac) in Franklin County

The area within this unit is privately owned. This unit is the peninsula created by Boggy Jordan Bayou. It includes St. George Sound shoreline (south of US 98) 1.6 km (1.0 mi) southwest along US 98 from the Carrabelle River Bridge and extends 1.9 km (1.2 mi) east along the St. George Sound shoreline. It includes from MLLW to where densely vegetated habitat or developed structures such as US 98, not used by the piping plover, begin and where the constituent elements no longer occur.

Unit FL–12: Lanark Reef. 260 ha (643 ac) in Franklin County

The entire unit is State owned. This unit includes the entire island and emerging sandbars to MLLW.

Unit FL–13: Phipps Preserve. 42 ha (104 ac) in Franklin County

This unit includes all of Phipps Preserve (owned by The Nature Conservancy) and any emerging sandbars from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit FL–14: Hagens Cove. 486 ha (1200 ac) in Taylor County

The majority of the unit is within Big Bend Wildlife Management Area. This unit includes all of Hagens Cove and extends from MLLW on north side of Sponge Point to MLLW on south side of Piney Point. The eastern boundary of this unit ends (0.20 mi) west of SR 361. It includes from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit FL–15: Anclote Key and North Anclote Bar. 146 ha (360 ac) in Pasco and Pinellas Counties

The majority of the unit is within Anclote Key State Preserve. This unit includes all of North Anclote Bar to the MLLW and the north, south and western sides of Anclote Key from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit FL–16: Three Rooker Bar Island. 76 ha (188 ac) in Pinellas County

The majority of the unit is within Pinellas County Aquatic Preserve. This unit includes all the islands and emerging sandbars of this complex to MLLW.

Unit FL–17: North Honeymoon Island. 45 ha (112 ac) in Pinellas County

The majority of the unit is within Honeymoon Island State Recreation Area. This unit includes from Pelican

Cove north to the far northern tip of Honeymoon Island. It includes the western shoreline from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur or the MLLW on the eastern shoreline.

Unit FL–18: South Honeymoon Island. 28 ha (70 ac) in Pinellas County

The majority of the unit is private land. This unit includes the southern end (southern-most 0.32 km (0.20 mi) on western side) of Honeymoon Island and encompasses the far southeastern tip and includes any emerging islands or sandbars to Hurricane Pass. It includes from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit FL–19: Caladesi Island. 120 ha (296 ac) in Pinellas County

The majority of the unit is within Caladesi Island State Park. This unit extends from Hurricane Pass to Dunedin Pass on the Gulf of Mexico side. It includes from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit FL–20: Shell Key and Mullet Key. 190 ha (470 ac) in Pinellas County

The majority of the unit is within Fort Desoto Park. This unit includes the Shell Key island complex. It also includes the northwest portion of Mullet Key including the western shorelines from Bunces Pass extending south, stopping 1.4 km (.86 mi) north of Ft. Desoto County Park pier. It includes from MLLW to where densely vegetated habitat or developed structures, not used by the piping plover, begin and where the constituent elements no longer occur.

Unit FL–21: Egmont Key. 153 ha (377 ac) Hillsborough County

The majority of the unit is within Egmont Key National Wildlife Refuge. This unit includes the entire island to MLLW.

Unit FL–22: Cayo Costa. 175 ha (432 ac) in Lee County

The majority of the unit, including its northern and southern boundaries, is within Cayo Costa State Park, and nearly all of the remaining area is in the Cayo Costa Florida Conservation and Recreation Lands (CARL) acquisition project. This unit begins at the northern limit of sandy beaches at the northern end of the island, extends through Murdock Point, which at present has a sandbar and lagoon system, and ends at the former entrance to Murdock Bayou. It includes land from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit FL–23: North Captiva Island. 36 ha (88 ac) in Lee County

The unit is within the Cayo Costa CARL land purchase project. This unit includes the western shoreline extending from 0.80 km (0.50 mi) south of Captiva Pass to approximately Foster Bay. It includes land from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit FL–25: Bunche Beach. 187 ha (461 ac) in Lee County

This unit is mostly within a CARL Estero Bay acquisition project. Bunche Beach (also spelled Bunch) lies along San Carlos Bay, on the mainland between Sanibel Island and Estero Island (Fort Myers Beach), extending east from the Sanibel Causeway past the end of John Morris Road to a canal serving a residential subdivision. The unit also includes the western tip of Estero Island (Bodwitch Point, also spelled Bowditch Point), including Bowditch Regional Park, operated by Lee County and, on the southwest side of the island facing the Gulf, the beach south nearly to the northwesterly intersection of Estero Boulevard and Carlos Circle. It includes land from MLLW to where densely vegetated habitat or developed structures, not used by the piping plover, begin and where the constituent elements no longer occur or, along the developed portion of Estero Island.

Unit FL–26: Estero Island. 86 ha (211 ac) in Lee County

The majority of the unit is privately owned. The unit consists of approximately the southern third of the island's Gulf-facing shoreline starting near Avenida Pescadora to near Redfish Road. The unit excludes south-facing shoreline at the south end of the island that faces Big Carlos Pass rather than the Gulf. It includes land from MLLW to where densely vegetated habitat (including grass or lawns) or developed structures, not used by the piping plover, begin and where the constituent elements no longer occur.

Unit FL–27: Marco Island. 245 ha (606 ac) in Collier County

Most of the unit is at the Tigertail Beach County Park. The unit's northern border is on the north side of Big Marco Pass, including Coconut Island and all emerging sand bars. On the south side of Big Marco Pass, the boundary starts at the north boundary of Tigertail Beach County Park and extends to just south of the fourth condominium tower south of the County Park. The placement of the southern boundary assures that the unit includes all of Sand Dollar Island, the changeable sandbar off Tigertail Beach. The western boundary includes all the sand bars in Big Marco Pass but excludes Hideaway Beach. It includes land from MLLW to where densely vegetated habitat (including grass or lawns) or developed structures, not used by the piping plover, begin and where the constituent elements no longer occur.

Unit FL–28: Marquesas Keys. 2937 ha (7256 ac) in Monroe County

The unit comprises the roughly circular atoll that encloses Mooney Harbor, including Gull Keys and Mooney Harbor Key. The entire unit is within Key West National Wildlife Refuge. It includes land from MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur.

Unit FL–29: Boca Grande/Woman/Ballast Keys. 56 ha (138 ac) in Monroe County

These Keys are east of the Marquesas Keys and west of Key West. Boca Grande and Woman Keys are within Key West National Wildlife Refuge. Ballast Key is privately owned. This unit consists only of sandy beaches and flats between the MLLW and to where densely vegetated habitat or developed structures, not used by the piping plover, begin and where the constituent elements no longer occur.

Unit FL–30: Bahia Honda/Ohio Keys. 372 ha (918 ac) in Monroe County

This unit comprises Bahia Honda Key (including a small island off its southwest shore), which is almost

entirely owned by Bahia Honda State Park, plus Ohio Key, which is privately owned. It includes land from MLLW to where densely vegetated habitat (including grass or lawns) or developed structures, not used by the piping plover, begin and where the constituent elements no longer occur.

Unit FL–31: Lower Matecumbe Key. 19 ha (48 ac) in Monroe County

Part of the unit is at Anne's Beach park, an Islamorada village park. The remaining parts are at Sunset Drive (Lower Matecumbe Beach) and at Costa Bravo Drive (Port Antiqua Homeowners Beach) on the Florida Bay side of the island. It includes land from MLLW to where densely vegetated habitat (including grass or lawns) or developed structures, not used by the piping plover, begin and where the constituent elements no longer occur.

Unit FL–32: Sandy Key/Carl Ross Key. 67 ha (165 ac) in Monroe County

This unit consists of two adjoining islands in Florida Bay, roughly south of Flamingo in Everglades National Park. The entire area is owned and managed by the National Park Service. It includes land from MLLW to where densely vegetated habitat (including grass or lawns) or developed structures, not used by the piping plover, begin and where the constituent elements no longer occur.

Unit FL–33: St. Lucie Inlet. 114 ha (282 ac) in Martin County

The unit includes a small area south of the jetty on the north shore of St. Lucie Inlet, from the jetty west 0.42 km (0.26 mi). While the two sides of the inlet are privately owned, the great majority of the unit is on public land in the Saint Lucie Inlet State Preserve, administered by Jonathan Dickinson State Park. It begins on the sandy shoreline south of Saint Lucie Inlet and extends along the Atlantic Ocean shoreline 2.6 km (1.6 mi). It includes land from MLLW to where densely vegetated habitat (including grass or lawns) or developed structures, not used by the piping plover, begin and where the constituent elements no longer occur. The unit does not include sandbars within the inlet.

Unit FL–34: Ponce de Leon Inlet. 68 ha (168 ac) in Volusia County

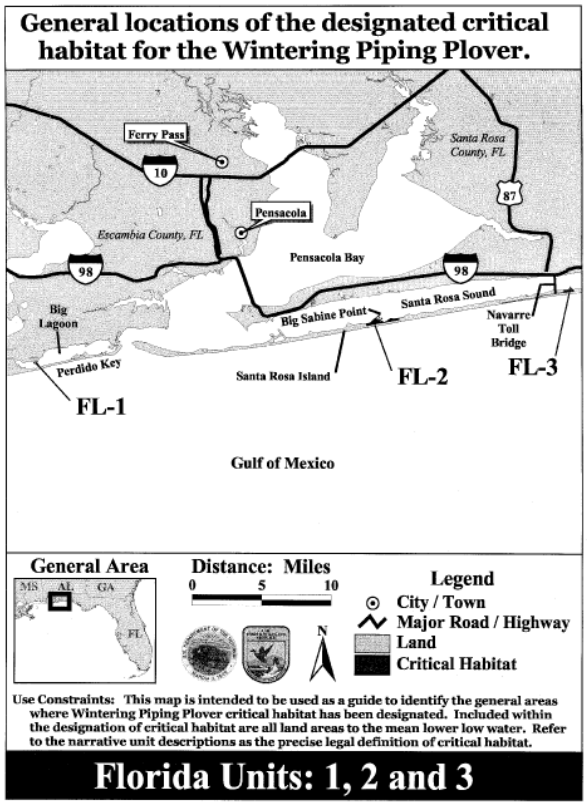
The majority of the unit is within Smyrna Dunes Park and Lighthouse Point Park. This unit includes shoreline extending from the jetty north of Ponce de Leon Inlet west to the Halifax River and Inlet junction. It includes shoreline south of Ponce de Leon Inlet from the inlet and Halifax River junction, extending east and south along the Atlantic Ocean shoreline 1.2 km (.70 mi). It includes land from MLLW to where densely vegetated habitat (including grass or lawns) or developed structures, not used by the piping plover, begin and where the constituent elements no longer occur.

Unit FL–35: Nassau Sound-Huguenot. 950 ha (2347 ac) in Duval County

The majority of the unit is within Big Talbot Island State Park, Little Talbot Island State Park, and the Timucuan Ecological and Historical Preserve. This unit includes all emergent shoals and shoreline east of Nassau River bridge and extends to the inlet of the St. John's River. Amelia Island and the northern 2.7 km (1.7 mi) shoreline along Talbot Island are not included. It includes land from MLLW to where densely vegetated habitat (including grass or lawns) or developed structures, not used by the piping plover, begin and where the constituent elements no longer occur.

Unit FL–36: Tiger Islands. 53 ha (130 ac) in Nassau County

This unit is privately owned. This unit extends from the mouth of Tiger Creek and runs north along Tiger Island 0.8 km (0.5 mi) and south along Little Tiger Island 1.4 km (0.9 mi). It includes land from MLLW to where densely vegetated habitat (including grass or lawns) or developed structures, not used by the piping plover, begin and where the constituent elements no longer occur. Emerging sandbars to MLLW are also included.



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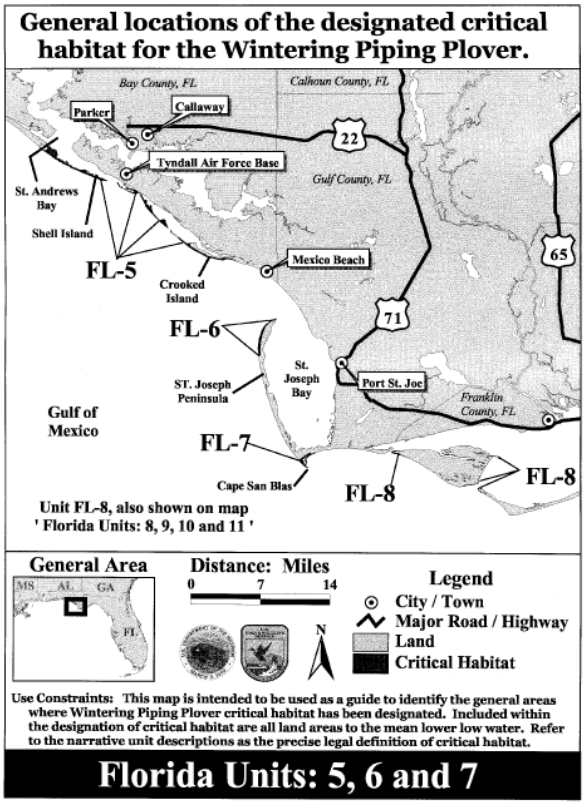

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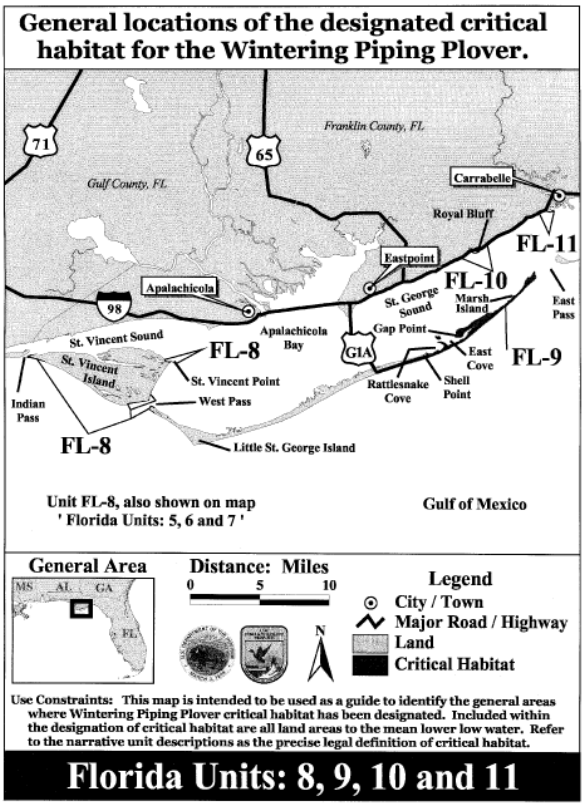

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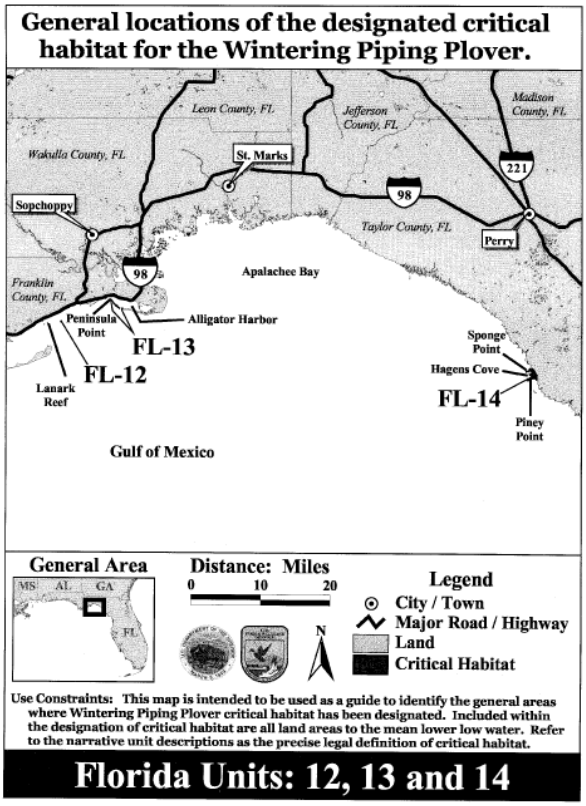

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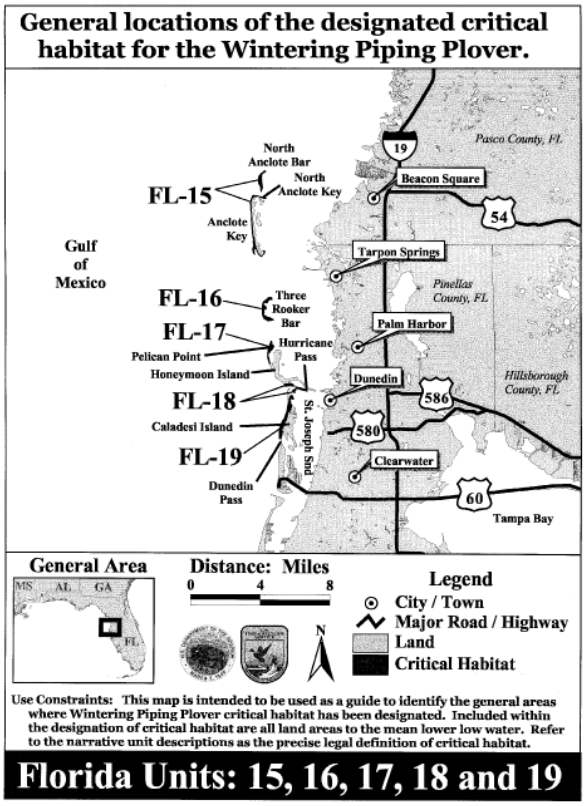

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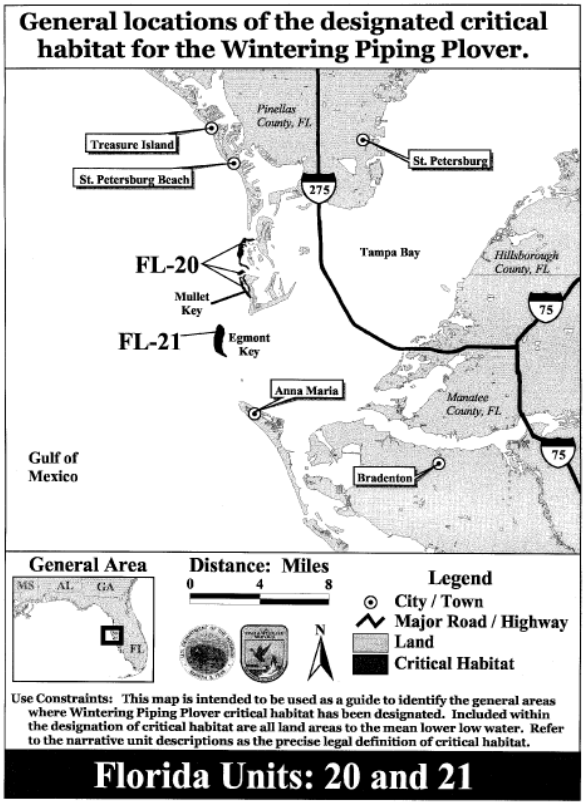

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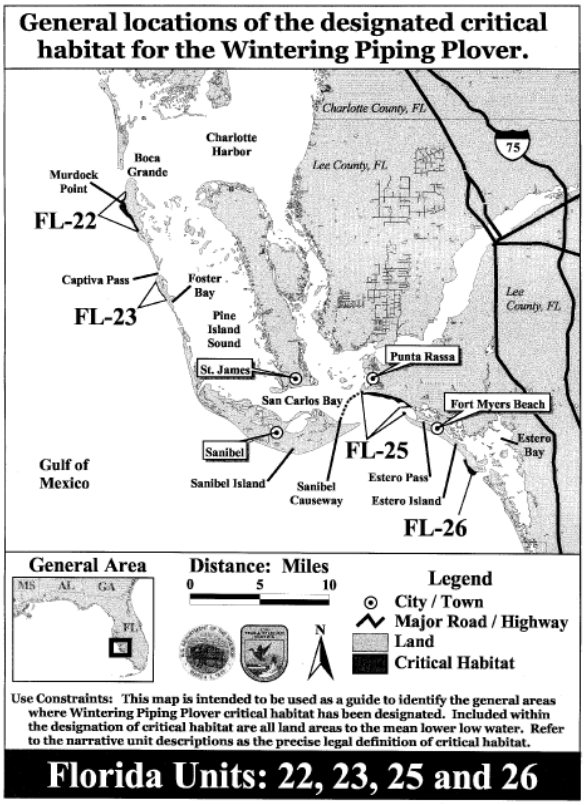

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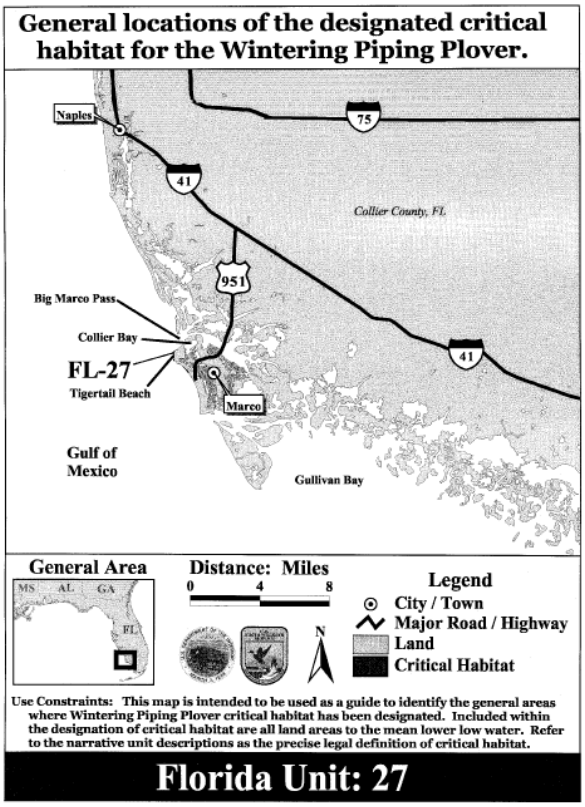

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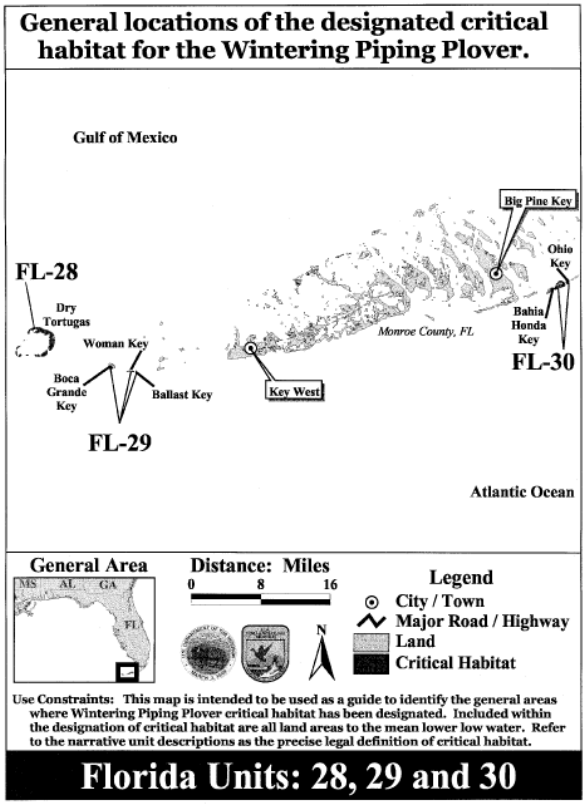

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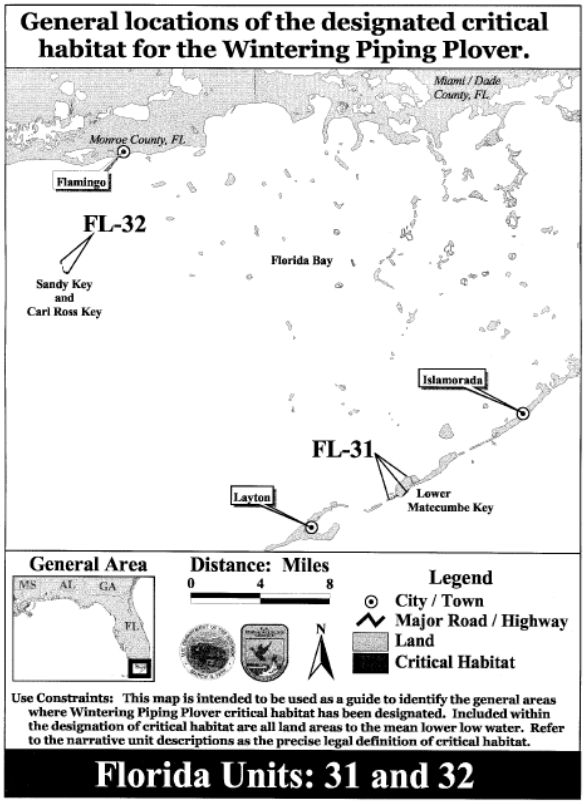

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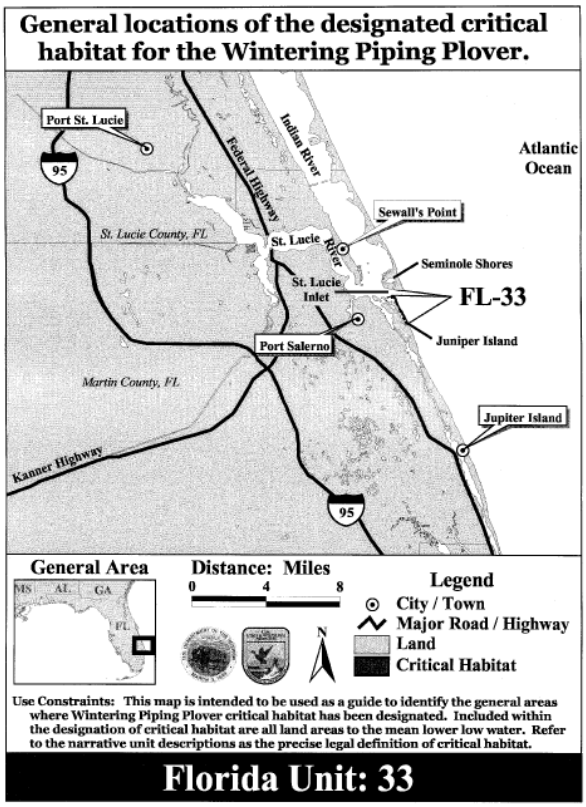

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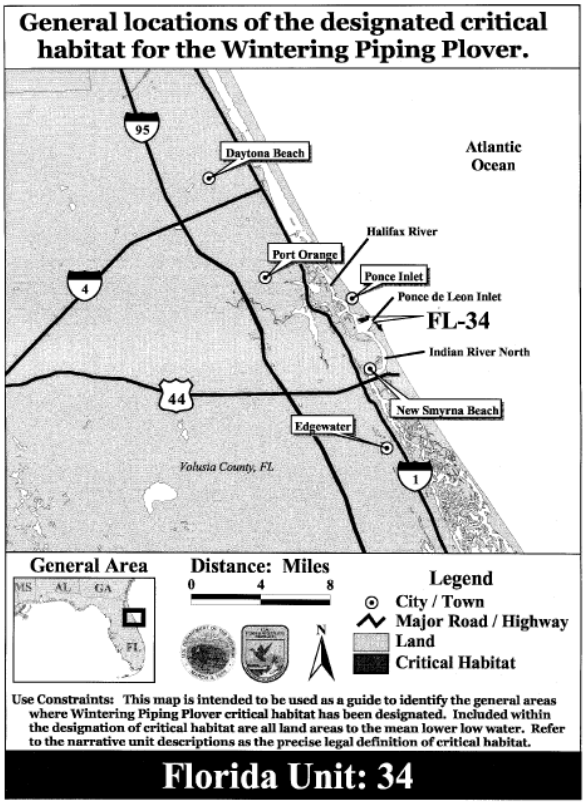

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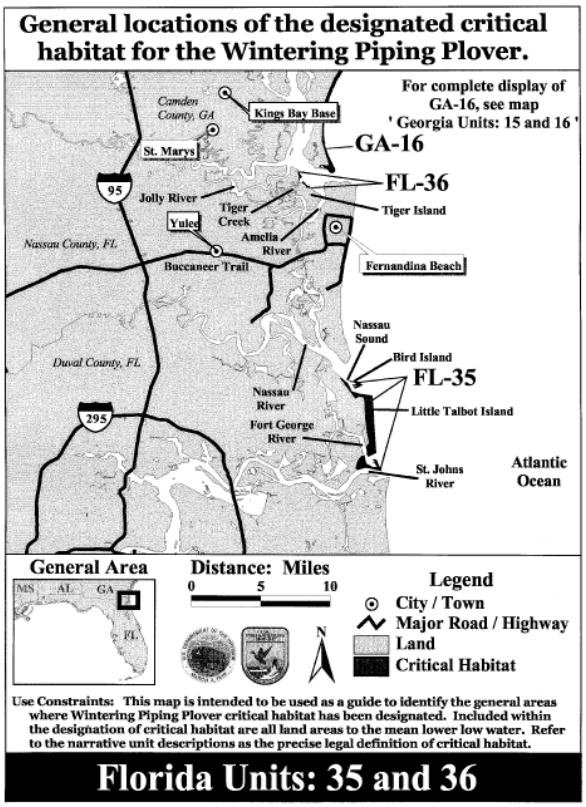

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Alabama (Maps were digitized using 1992 DOQQs)

Unit AL–1: Isle Aux Herbes. 227 ha (561 ac) in Mobile County

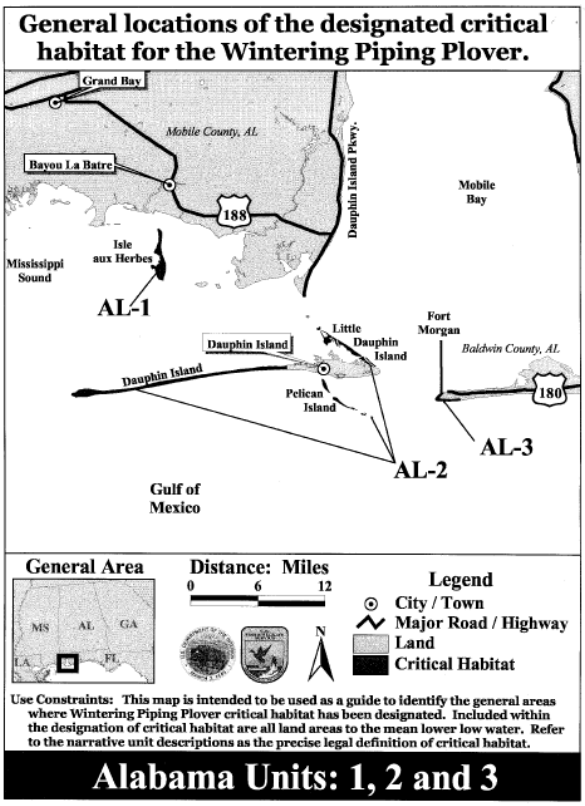
This unit includes the entire Isle Aux Herbes island where primary constituent elements occur to MLLW and is State-owned.

Unit AL–2: Dauphin, Little Dauphin, and Pelican Islands. 880 ha (2,174 ac) in Mobile County

This unit includes all of Dauphin Island where primary constituent elements occur from St. Stephens Street approximately 17.6 km (10.9 mi) west to the western tip of the island to MLLW and all of Little Dauphin and Pelican Islands to MLLW. The area is mostly privately owned but includes State and Federal lands.

Unit AL–3: Fort Morgan. 67 ha (166 ac) in Baldwin County

This area includes Mobile Bay and Gulf of Mexico shorelines within Bon Secour National Wildlife Refuge, Fort Morgan Unit. This unit extends from the west side of the pier on the northwest point of the peninsula, following the shoreline approximately 2.8 km (1.74 mi) southwest around the tip of the peninsula, then east to the terminus of the beach access road and is bounded on the seaward side by MLLW and on the landward side to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur. The area is State-owned but is leased by the Federal Government.



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Mississippi (Maps were digitized using 1992 and 1997 DOQQs)

Unit MS–1: Lakeshore through Bay St. Louis. 41 ha (101 ac) in Hancock County

This unit extends from the north side of Bryan Bayou outlet and includes the shore of the Mississippi Sound following the shoreline northeast approximately 15.0 km (9.3 mi) and ending at the southeast side of the Bay Waveland Yacht Club. The landward boundary of this unit follows the Gulf side of South and North Beach Boulevard and the seaward boundary is MLLW. The shoreline of this unit is privately owned.

Unit MS–2: Henderson Point. 34 ha (84 ac) in Harrison County

This unit extends from 0.2 km (0.12 mi) west of the intersection of 3rd Avenue and Front Street and includes the shore of the Mississippi Sound following the shoreline northeast approximately 4.4 km (2.7 mi) to the west side of Pass Christian Harbor. The landward boundary of this unit follows the Gulf side of U.S. Highway 90 and the seaward boundary is MLLW. The shoreline of this unit is privately owned.

Unit MS–3: Pass Christian. 77 ha (190 ac) in Harrison County

This unit extends from the east side of Pass Christian Harbor and includes the shore of the Mississippi Sound following the shoreline northeast approximately 10.5 km (6.5 mi) to the west side of Long Beach Pier and Harbor. The landward boundary of this unit follows the Gulf side of U.S. Highway 90 and the seaward boundary is MLLW. The shoreline of this unit is privately owned.

Unit MS–4: Long Beach. 38 ha (94 ac) in Harrison County

This unit extends from the east side of Long Beach Pier and Harbor and includes the shore of the Mississippi Sound following the shoreline northeast approximately 4.4 km (2.7 mi) to the west side of Gulfport Harbor. The landward boundary of this unit follows the Gulf side of U.S. Highway 90 and the seaward boundary is MLLW. The shoreline of this unit is privately owned.

Unit MS–5: Gulfport. 39 ha (96 ac) in Harrison County

This unit extends from the east side of Gulfport Harbor and includes the shore of the Mississippi Sound following the shoreline northeast approximately 4.8 km (3.0 mi) to the west side of the groin at the southern terminus of Courthouse Road, Mississippi City, MS. The landward boundary of this unit follows the Gulf side of U.S. Highway 90 and the seaward boundary is MLLW. The shoreline of this unit is privately owned.

Unit MS–6: Mississippi City. 62 ha (153 ac) in Harrison County

This unit extends from the east side of the groin at the southern terminus of Courthouse Road, Mississippi City, MS, and includes the shore of the Mississippi Sound following the shoreline northeast approximately 7.9 km (4.9 mi) to the west side of President Casino. The landward boundary of this unit follows the Gulf side of U.S. Highway 90 and the seaward boundary is MLLW. The shoreline of this unit is privately owned.

Unit MS–10: Ocean Springs West. 11 ha (27 ac) in Jackson County

This unit extends from U.S. 90 and includes the shore of Biloxi Bay following the shoreline southeast approximately 1.9 km (1.2 mi) to the Ocean Springs Harbor inlet. The landward boundary of this unit follows the Bay side of Front Beach Drive and the seaward boundary is MLLW. The shoreline of this unit is privately owned.

Unit MS–11: Ocean Springs East. 7 ha (17 ac) in Jackson County

This unit extends from the east side of Weeks Bayou and includes the shore of Biloxi Bay following the shoreline southeast approximately 1.8 km (1.1 mi) to Halstead Bayou. The landward boundary of this unit follows the Bay side of East Beach Drive and the seaward boundary is MLLW. The shoreline of this unit is privately owned.

Unit MS–12: Deer Island. 194 ha (479 ac) in Harrison County

This unit includes all of Deer Island, where primary constituent elements occur to the MLWW. Deer Island is privately owned.

Unit MS–13: Round Island. 27 ha (67 ac) in Jackson County

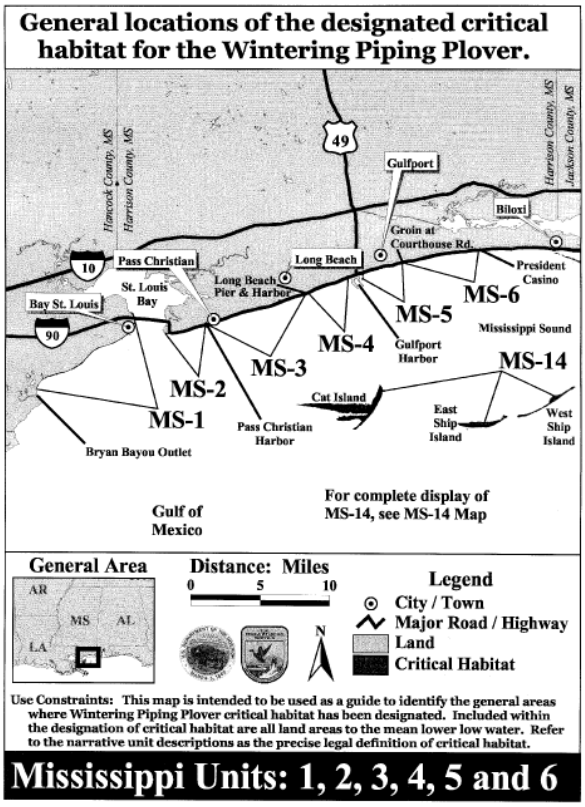
This unit includes all of Round Island to the MLWW and is privately owned

Unit MS–14: Mississippi Barrier Islands. 3,168 ha (7,828 ac) in Harrison and Jackson Counties.

This unit includes all of Cat, East and West Ship, Horn, Spoil, and Petit Bois Islands where primary constituent elements occur to MLLW. Cat Island is privately owned, and the remaining islands are part of the Gulf Islands National Seashore.

Unit MS–15: North and South Rigolets. 159 ha (393 ac) in Jackson County, MS, and 12 ha (30 ac) in Mobile County, AL

This unit extends from the southwestern tip of South Rigolets Island and includes the shore of Point Aux Chenes Bay, the Mississippi Sound, and Grand Bay following the shoreline east around the western tip, then north to the south side of South Rigolets Bayou; then from the north side of South Rigolets Bayou (the southeastern corner of North Rigolets Island) north to the northeastern most point of North Rigolets Island. This shoreline is bounded on the seaward side by MLLW and on the landward side to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur. Approximately 4.4 km (2.7 mi) are in Mississippi and 2.9 km (1.8 mi) are in Alabama. Almost half the Mississippi shoreline length is in the Grand Bay National Wildlife Refuge.



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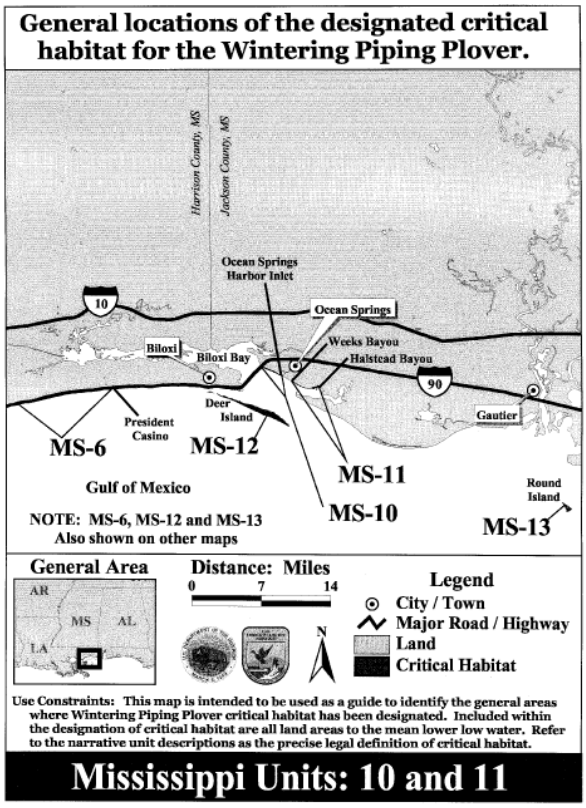

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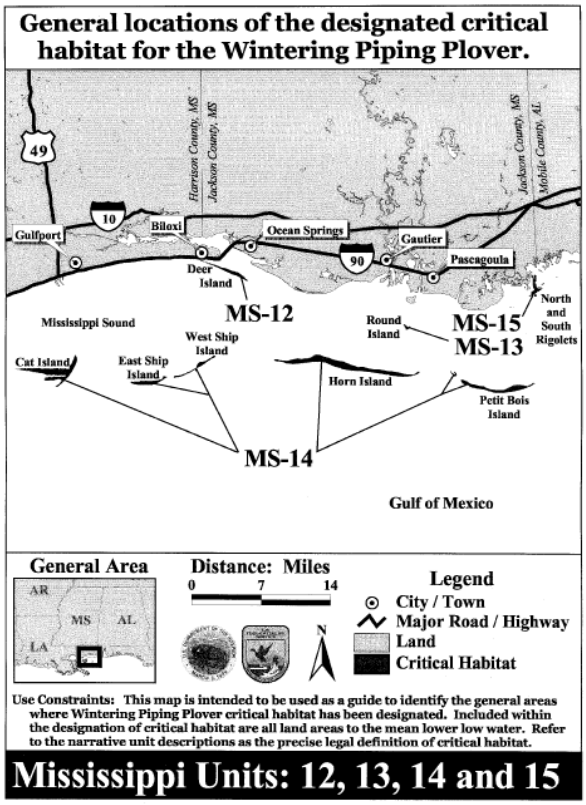

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Louisiana (Maps were digitized using 1998 DOQQs)

Unit LA–1: Texas/Louisiana border to Cheniere au Tigre. 2,650 ha (6,548 ac) in Cameron and Vermilion Parishes

This unit extends from the east side of Sabine Pass (Texas/Louisiana border) and includes the shore of the Gulf of Mexico from the MLLW following the shoreline east 25.7 km (16.0 mi) to the west end of Constance Beach [approximately 2 km (1.2 mi) east of the intersection of Parish Road 528 and the beach]; it extends from the east end of the town of Holly Beach [0.25 km (0.16 mi) east of the intersection of Baritarick Boulevard and the beach] following the shoreline approximately 97 km (60.3 mi) east to the eastern boundary line of Rockefeller Wildlife Refuge [3.4 km (2.1 mi) east of Rollover Bayou]; and it extends from the east side of Freshwater Bayou Canal following the shoreline east for approximately 15 km (9.3 mi) to 1.3 km (0.81 mi) east of where the boundary of Paul J. Rainey Wildlife Sanctuary (National Audubon Society) meets the shoreline. All three sections of this unit include the land from the seaward

boundary of MLLW to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur. The shoreline in this unit is both state and privately owned.

Unit LA–2: Atchafalaya River Delta. 921 ha (2,276 ac) in St. Mary Parish, LA

This unit is located in the eastern portion of the State-owned Atchafalaya Delta Wildlife Management Area (WMA) and includes all exposed land and islands where primary constituent elements occur east and southeast of the main navigation channel of the Atchafalaya River to the MLLW. The islands located south and southeast of the deltaic splay, Donna, T–Pat, and Skimmer Islands and the un-named bird island, are also included in this unit. This unit includes the entire islands where primary constituent elements occur to the MLLW.

Unit LA–3: Point Au Fer Island. 195 ha (482 ac) in Terrebonne Parish.

This unit includes the entire small island at the northwest tip of Point Au Fer Island to MLLW, then extends from the northwest tip of Point Au Fer Island following the shoreline southeast approximately 7.7 km (4.8 mi) to the point where the un-named oil and gas canal extending southeast from Locust Bayou meets the shoreline [0.8 km (0.5 mi) southeast from Locust Bayou]. This shoreline is bounded on the seaward side by MLLW and on the landward side to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur. This entire unit is privately owned.

Unit LA–4: Isles Dernieres. 795 ha (1,964 ac) in Terrebonne Parish

This unit includes the State-owned Isles Dernieres chain, including Raccoon, Whiskey, Trinity and East Islands. This unit includes the entire islands where primary constituent elements occur to the MLLW.

Unit LA–5: Timbalier Island to East Grand Terre Island. 2,321 ha (5,735 ac) in Terrebonne, Lafourche, Jefferson, and Plaquemines Parishes

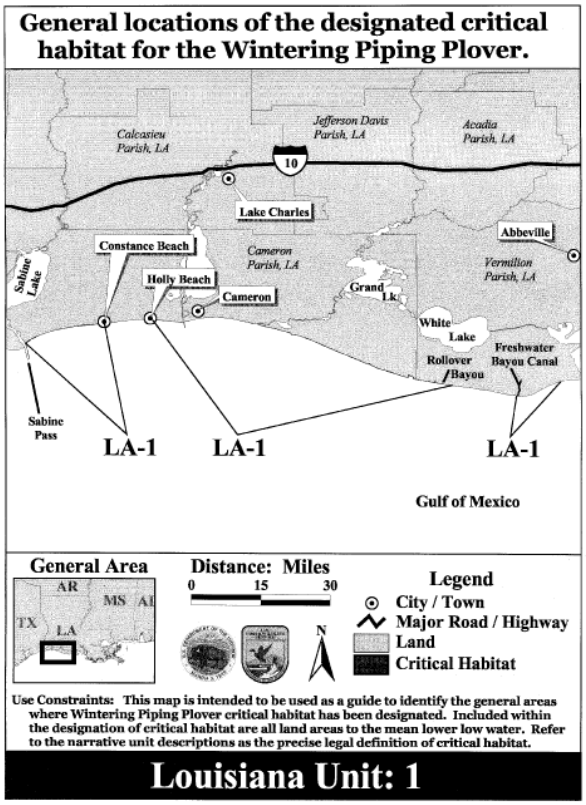
This unit includes: all of Timbalier Island where primary constituent elements occur to the MLLW, all of Belle Pass West [the “peninsula” extending north/northwest approximately 4.8 km (3.0 mi) from the west side of Belle Pass] where primary constituent elements occur to MLLW; the Gulf shoreline extending approximately 11 km (6.8 mi) east from the east side of Belle Pass bounded on the seaward side by MLLW and on the landward side to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur; all of Elmers Island peninsula where primary constituent elements occur to MLLW and the Gulf shoreline from Elmers Island to approximately 0.9 km (0.56 mi) west of Bayou Thunder Von Tranc bounded on the seaward side by MLLW and on the landward side to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur; the Gulf shoreline of Grand Isle from the Gulf side of the hurricane protection levee to MLLW; and all of East Grand Terre Island where primary constituent elements occur to the MLLW.

Unit LA–6: Mississippi River Delta. 105 ha (259 ac) in Plaquemines Parish, LA

This unit is part of the State-owned Pass a Loutre Wildlife Management Area and includes un-named sand (spoil) islands off South Pass of the Mississippi River near Port Eads. The entire islands to MLLW are included in this unit.

Unit LA–7: Breton Islands and Chandeleur Island Chain. 3,116 ha (7,700 ac) in Plaquemines and St. Bernard Parishes, LA

This unit includes Breton, Grand Gosier, and Curlew Islands and the Chandeleur Island chain. Those islands are part of the Breton National Wildlife Refuge or are state owned. The entire islands where primary constituent elements occur to MLLW are included in this unit.



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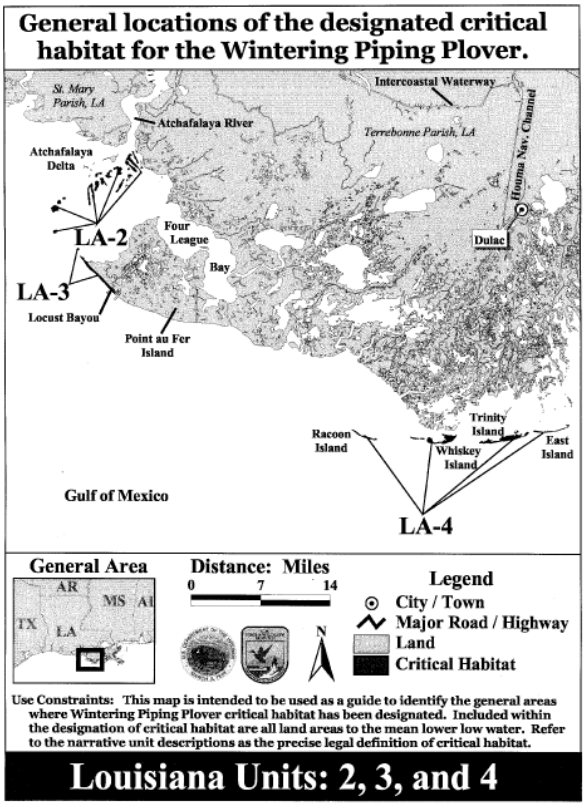

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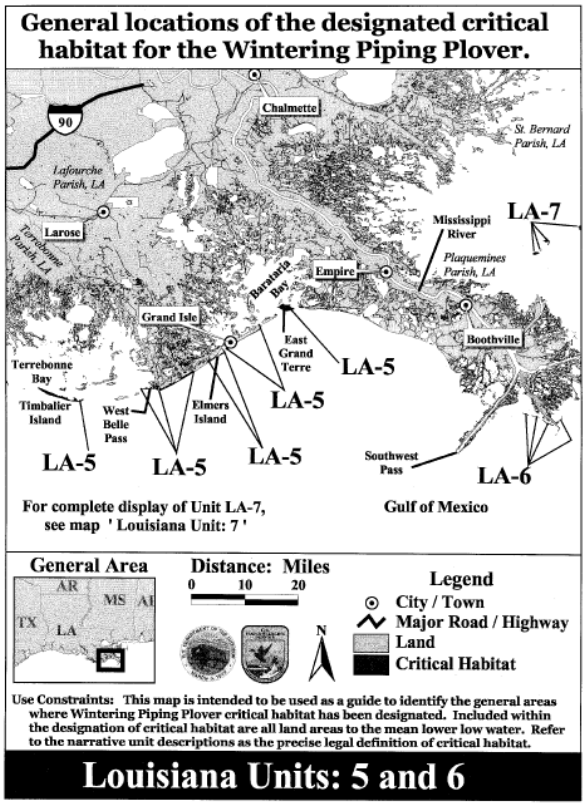

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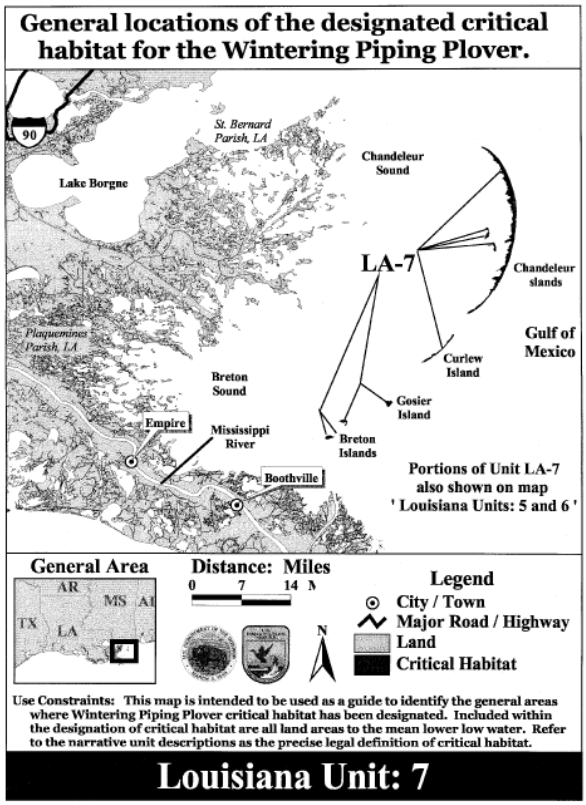

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Texas (Maps were digitized using 1995 and 1996 DOQQs and National Oceanic and Atmospheric Administration's (NOAA) Medium Resolution Digital Vector Shoreline)

Unit TX–1: South Bay and Boca Chica. 2,920 ha (7,217 ac) in Cameron County

The boundaries of the unit are: starting at the Loma Ochoa, following the Brownsville Ship Channel to the northeast out into the Gulf of Mexico to MLLW, then south along a line describing MLLW to the mouth of the Rio Grande, proceeding up the Rio Grande to Loma de Las Vacas, then from that point along a straight line north to Loma Ochoa. The unit does not include densely vegetated habitat within those boundaries. It includes wind tidal flats that are infrequently inundated by seasonal winds, and includes the tidal flats area known as South Bay. Beaches within the unit reach from the mouth of the Rio Grande northward to Brazos Santiago Pass, south of South Padre Island. The southern and western boundaries follow the change in habitat from wind tidal flat, preferred by the piping plover, to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur. The upland areas extend to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur and include areas used for roosting by the piping plover. Portions of this unit are owned and managed by the Lower Rio Grande Valley National Wildlife Refuge, the South Bay Coastal Preserve, Boca Chica State Park, and private citizens.

Unit TX–2: Queen Isabella Causeway. 2 ha (6 ac) in Cameron County

The area extends along the Laguna Madre west of the city of South Padre Island. The southern boundary is the Queen Isabella State Fishing Pier, and the northern boundary is at the shoreline due west of the end of Sunny Isles Street. The Queen Isabella causeway bisects this shore but is not included within critical habitat. The eastern boundary is where developed areas and/or dense vegetation begins, and the western boundary is MLLW. This unit contains lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–3: Padre Island. 10,924 ha (26,983 ac) in Cameron, Willacy, Kenedy, and Kleberg Counties

This unit consists of four subunits:

(1) The southern boundary of this subunit is at Andy Bowie County Park in South Padre Island, and the northern boundary is the south boundary of PAIS. The eastern boundary is MLLW in the Gulf of Mexico, and the western boundary is MLLW in the Laguna Madre. Areas of dense vegetation are not included in critical habitat. This subunit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

(2) The boundaries of this subunit extend from Rincon de la Soledad to the southeast point of Mesquite Rincon, continue from that point west to the Laguna Madre shoreline at its intersection with the King Ranch boundary, and from that point to Rincon de la Soledad. This subunit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

(3) This subunit is within the Laguna Madre and extends from the western boundary of PAIS to the Gulf Intercoastal Waterway. Its northern boundary is a line extending westward from the northwest corner of PAIS, and its southern boundary is a line extending westward from the southern boundary of PAIS. This subunit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

(4) This subunit extends along the gulf shore of Padre Island from the northern boundary of PIAS at the shore, north to the Nueces-Kleberg county line. The inland boundary is where dense vegetation begins, and the seaward boundary is MLLW. This subunit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Portions of this unit are owned and managed by TGLO, and private citizens with a significant portion being owned and managed by The Nature Conservancy on South Padre Island.

Unit TX–4: Lower Laguna Madre Mainland. 4,980 ha (12,307 ac) in Cameron and Willacy Counties

The southern boundary is an east-west line at the northern tip of Barclay Island, and the southern boundary is an east-west line 0.9 km (0.5 mi) south of the boundary of the City of Port Mansfield; the western boundary is the line where dense vegetation begins, and the eastern boundary is the Gulf Intercoastal Waterway. The unit includes bayside flats that are exposed during low tide regimes and wind tidal flats that are infrequently inundated by seasonal winds. Portions of this unit are within the Laguna Atascosa National Wildlife Refuge, are TGLO-owned, or are privately owned. Beaches and interior wetlands may or may not be used each year because of varying water levels, storm events, or changes in beach characteristics and tidal regime. Water stages vary in this area with meteorological conditions. The upland areas extend to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur and include upland areas used for roosting by the piping plover.

Unit TX–5: Upper Laguna Madre. 436 ha (1,076 ac) in Kleberg County

The southern boundary is the northern boundary of PAIS, and the northern boundary is the Kleberg/Nueces County line. The eastern boundary is the line where dense vegetation begins, and the western boundary is MLLW. This unit includes a series of small flats along the bayside of Padre Island in the Upper Laguna Madre. It includes wind tidal flats and sparsely-vegtated upland areas used for roosting by the piping plover. These boundaries receive heavy use by large numbers of shorebirds, including piping plovers. The upland areas extend to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur, and include upland areas used for roosting by the piping plover.

Unit TX–6: Mollie Beattie Coastal Habitat. 241 ha (596 ac) in Nueces County

This unit will be described as two subunits:

(1) Subunit is bounded on the north by Beach Access Road 3, on the east by the inland boundary of critical habitat Unit TX–7, on the south by Zahn road, and on the west by Zahn Road.

(2) The subunit is bounded on the north by Corpus Christi Pass, on the east by US 361, on the south by the north side of Packery Channel, and on the west by the Gulf Intercoastal Watersay.

Some of the uplands are privately owned and the remaining are owned and managed by the TGLO. This unit includes two hurricane washover passes known as Newport and Corpus Christi Passes, and wind tidal flats that are infrequently inundated by seasonal winds. The upland areas extend to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur and include upland areas used for roosting by the piping plover.

Unit TX–7: Newport Pass/Corpus Christi Pass Beach. 42 ha (104 ac) in Nueces County

This unit is along a stretch of Gulf beach 8.5 km (5.3 mi) long. It is bounded on the north by Fish Pass, on the east by MLLW, on the south by St. Bartholomew Avenue, and on the west by a line marking the beginning of dense vegetation. Portions of the unit are managed by the Texas Parks and Wildlife Department as part of Mustang Island State Park. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–8: Mustang Island Beach. 97 ha (239 ac) in Nueces County

This is a stretch of Gulf beach extending from Fish Pass to the Horace Caldwell Pier on Holiday Beach within the City of Port Aransas, TX. The landward boundary is beginning of dense vegetation, and the gulf-ward boundary is MLLW. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–9: Fish Pass Lagoons. 130 ha (323 ac) in Nueces County

This unit encompasses flats facing Corpus Christi Bay that extend 1.0 km (0.6 mi) on either side of Fish Pass. The inland boundary is the line indicating beginning of dense vegetation, and the bayside boundary is MLLW. It includes interior lagoons and wind tidal flats that are infrequently inundated by seasonal winds. This unit includes upland areas used for roosting by the piping plover.

Unit TX–10: Shamrock Island and Adjacent Mustang Island Flats. 87 ha (216 ac) in Nueces County

This unit encompasses Shamrock Island, an unnamed small sand flat to the north of Wilson's Cut, and a lagoon complex that extends 3.5 km (2.2 mi) to the southwest of Wilson's Cut. Critical habitat includes land to the line marking the beginning of dense vegetation down to MLLW. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–11: Blind Oso. 2 ha (5 ac) in Nueces County

This unit is the flats of the Blind Oso, part of Oso Bay, from Hans and Pat Suter Wildlife Refuge (owned and managed by the City of Corpus Christi) northeast to Corpus Christi Bay and then southeast along the edge of Texas A&M University—Corpus Christi. The landward boundaries extend to where densely vegetated habitat, not used by the piping plover, begins, and extends out from the landward boundaries to MLLW. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–12: Adjacent to Naval Air Station-Corpus Christi. 2 ha (6 ac) in Nueces County

This unit is along the shore of Oso Bay on flats bordered by Naval Air Station-Corpus Christi and Texas Spur 3 to a point 2.5 km (1.5 mi) south of the bridge between Ward Island and the Naval Air Station. The landward boundary is the line where dense vegetation begins, and the boundary in the Bay is MLLW. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–13: Sunset Lake. 176 ha (435 ac) in San Patricio County

This unit is triangle shaped, with State Highway 181 as the northwest boundary, and the limits of the City of Portland as the northeast boundary. The shore on Corpus Christi Bay is the third side of the triangle, with the actual boundary being MLLW off this shore. This unit is a large basin with a series of tidal ponds, sand spits and wind tidal flats. This unit is owned and managed by the City of Portland within a system of city parks. Some of the described area falls within the jurisdiction of the TGLO. It includes two city park units referred to as Indian Point and Sunset Lake. Much of the unit is a recent acquisition by the city, and management considerations for the park include the area's importance as a site for wintering and resident shorebirds. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–14: East Flats. 194 ha (481 ac) in Nueces County

This unit is bordered on the north by dredge placement areas bordering the Corpus Christi Ship Channel, on the west by MLLW in Corpus Christi Bay, on the east by the limits of the City of Port Aransas, and on the south by an east-west line at the sourthern-most point of Pelone Island. It is also bisected by a navigation channel, which is not included in the critical habitat. A portion of this unit at the west end falls within State-owned (TGLO) intertidal lands. The remainder of the unit is privately owned. The upland areas extend to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur, including upland areas used for roosting by the piping plover. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–15: North Pass. 447 ha (1,106 ac) in Aransas County

The unit is bounded on north by North Pass, on the northwest by the line indicating MLLW, on the southwest by the northeast side of Lydia Ann Island, on the south by a line running due east from the northeast side of Lydia Ann Island, and on the southeast by the landward boundary of Unit. This unit is a remnant of a hurricane washover on the privately owned San Jose Island. The upland areas extend to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur, including upland areas used for roosting by the piping plover. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–16: San Jose Beach. 187 ha (463 ac) in Aransas County

This unit occupies a 33 km (20 mi) stretch of beach from the North Jetty of Aransas Pass at the south, to the confluence of Vinson Slough and Cedar Bayou at the north end of San Jose Island. The inland boundary is the line indicating the beginning of densely vegetated habitat, and the gulf-ward boundary is MLLW. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–17: Allyn's Bight. 5 ha (14 ac) in Aransas County

This unit includes shoreline of San Jose Island on Aransas Bay from Allyn's Bight to Blind Pass, the channel between San Jose Island and Mud Island. The inland boundary is where the line of dense vegetation begins, and the bay-ward boundary is MLLW. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–18: Cedar Bayou/Vinson Slough. 3,051 ha (7,539 ac) in Aransas County

Beginning at the confluence of Vinson Slough and Cedar Bayou, this unit's boundary follows the shore of Spalding Cove to Long Reef, then continues along a line extending (2.5 mi) southwest of Long Reef to the shore of San Jose Island, then along the shore of the island to the landward boundary of Unit TX–16. The unit boundaries extend landward to the line indicating the beginning of dense vegetation. This unit is a remnant of a hurricane washover area, and includes the highly dynamic area of Cedar Bayou, the pass that separates San Jose Island and Matagorda Island. This area includes a small section of Matagorda Island National Wildlife Refuge with much of the remaining areas occurring on the privately owned island of San Jose. The upland areas extend to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur and include upland areas used for roosting by the piping plover. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–19: Matagorda Island Beach. 395 ha (976 ac) in Calhoun County

This stretch of beach along the Gulf of Mexico on Matagorda Island extends a distance of 60 km (36 mi) from Cedar Bayou on the southwest (where it abuts TX–18), to Pass Cavallo on the northeast. The inland boundary is the line indicating the beginning of dense vegetation, and the gulf-ward boundary is MLLW. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds. The unit falls entirely within the boundary of the Matagorda Island National Wildlife Refuge.

Unit TX–20: Ayers Point. 397 ha (982 ac) in Calhoun County

This unit is an unnamed lake on Matagorda Island between Shell Reef Bayou and Big Brundrett Lake, with San Antonio Bay to the north. The unit boundary extends landward from the lake to the line where dense vegetation begins and where the constituent elements no longer occur and includes upland areas used for roosting by the piping plover. This unit includes marsh and flats at Ayers Point on Matagorda Island National Wildlife Refuge. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–21: Panther Point to Pringle Lake. 863 ha (2,133 ac) in Calhoun County

This unit represents a narrow band of bayside habitats on Matagorda Island from Panther Point to the northeast end of Pringle Lake. The landward boundary is the line indicating where dense vegetation begins, and the bayward boundary is MLLW. The unit is entirely within Matagorda Island National Wildlife Refuge. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–22: Decros Point. 450 ha (1,114 ac) at the Matagorda/Calhoun County Line

This unit includes about 7.0 km (4.3 mi) of beach habitat around the island at the western tip of Matagorda Peninsula between the natural opening to Matagorda Bay and the Matagorda Ship Channel. The upland boundary is the line where dense vegetation begins, and the seaward boundary is MLLW. The adjacent upland is privately owned. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–23: West Matagorda Peninsula Beach. 311 ha (769 ac) of Shoreline in Matagorda County

This unit extends 40 km (24 mi) along the Gulf of Mexico from the jetties at the Matagorda Ship Channel to the old Colorado River channel. The inland boundary is the line indicating where dense vegetation begins, and the gulfside boundary is MLLW. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–24: West Matagorda Bay/Western Peninsula Flats. 756 ha (1,868 ac) in Matagorda County

This unit extends along the bayside of Matagorda Peninsula from 7.5 southwest of Greens Bayou to 2.5 km (1.6 mi) northwest of Greens Bayou. The landward boundary is the line indicating the beginning of dense vegetation, and the bayside boundary is MLLW. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–25: West Matagorda Bay/Eastern Peninsula Flats. 232 ha (575 ac) in Matagorda County

This unit follows the bayside of Matagorda Peninsula from Maverick Slough southwest for 5 km (3 mi). The unit begins at Maverick Slough to the northeast and extends 5 km (3 mi) to the southwest, enclosing a series of flats along Matagorda Bay. The upland areas extend to where densely vegetated habitat, not used by the piping plover, begins and where the constituent elements no longer occur and include upland areas used for roosting by the piping plover. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–26: Colorado River Diversion Delta. 5 ha (13 ac) in Matagorda County

This unit follows the shore of the extreme eastern northeast corner of West Matagorda Bay from Culver Cut to Dog Island Reef. The southeastern tidally emergent portion of Dog Island Reef is included within the unit. The landward boundary is the line indicating the beginning of dense vegetation, and the bayside boundary is MLLW. The upland areas includes upland areas used for roosting by the piping plover. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–27: East Matagorda Bay/Matagorda Peninsula Beach West. 295 (728 ac) of shoreline in Matagorda County

This unit extends along Gulf beach on the Matagorda Peninsula from the mouth of the Colorado River northeast along the peninsula 23 km (14 mi) to a point on the beach opposite Eidelbach Flats. The landward boundary is the line indicating the beginning of dense vegetation, and the gulfside boundary is MLLW. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–28: East Matagorda Bay/Matagorda Peninsula Beach East. 129 ha (321 ac) in Matagorda County

This unit extends along the Gulf beach on the northeast end of Matagorda Peninsula from a point 0.8 km (0.5 mi) southwest of FM 457 southwest 10 km (6 mi.) to the southwest side of Brown Cedar Cut. This unit abuts with Unit TX–29 to the north. The landward boundary is the line indicating the beginning of dense vegetation, and the gulfside boundary is MLLW. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–29: Brown Cedar Cut. 119 ha (294 ac) in Matagorda County

This unit extends 2 km (1.2 mi.) both southwest and northeast of the main channel of Brown Cedar Cut along the bayside of Matagorda Peninsula in East Matagorda Bay, and abuts unit TX–28 to the southeast. The landward boundary is the line indicating the beginning of dense vegetation, and the bayside boundary is MLLW. The eastern boundary of TX–29 follows the change in habitat from mud flats preferred by the piping plover, to slightly vegetated dune system adjacent to TX–28. This unit includes upland areas used for roosting by the piping plover. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–30: Northeast Corner East Matagorda Bay. 120 ha (297 ac) in Matagorda County

This unit is bounded on the north by the Gulf Intercoastal Waterway, on the east by the northeast limit of Matagorda bay up the line where dense vegetation begins, on the south by the boundary of Unit TX–28, and on the west by MLLW. It is a system of flats associated with tidal channels. This unit includes upland areas used for roosting by the piping plover and lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–31: San Bernard NWR Beach. 166 ha (410 ac) in Matagorda and Brazoria Counties

This is a unit composed of Gulf beach, 8.0 km (5.0 mi), and extends from the mouth of the San Bernard River to a point along the beach 14.0 km (8.7 mi) to the southwest. The landward boundary is the line indicating the beginning of dense vegetation, and the gulfside boundary is MLLW. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–32: Gulf Beach Between Brazos and San Bernard Rivers. 108 ha (269 ac) of shoreline in Brazoria County

This unit is a segment of Gulf beach between the Brazos River and the San Bernard River. This unit borders an area known as Wolf Island. The landward boundary is the line indicating the beginning of dense vegetation, and the gulfside boundary is MLLW. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–33: Bryan Beach and Adjacent Beach. 157 ha (388 ac) in Brazoria County

The boundaries enclose a length of Gulf beach between the mouth of the Brazos River and FM 1495. The landward boundary is the line indicating the beginning of dense vegetation, and the gulfside boundary is MLLW. A portion of this area is owned and managed by the Texas Parks and Wildlife Department. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–34: San Luis Pass. 110 ha (272 ac) near the Brazoria/Galveston County line

This unit extends along the Gulf side of Galveston Island from San Luis Pass to the site of the former town of Red Fish Cove (USGS 1:24,000 map, San Luis Pass, Texas; 1963, photorevision 1974). The landward boundary is the line indicating the beginning of dense vegetation, and the gulfside boundary is MLLW. Approximately 57 percent of the unit includes flats in the floodtide delta that are State-owned and managed by the TGLO. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–35: Big Reef. 47 ha (117 ac) in Galveston County

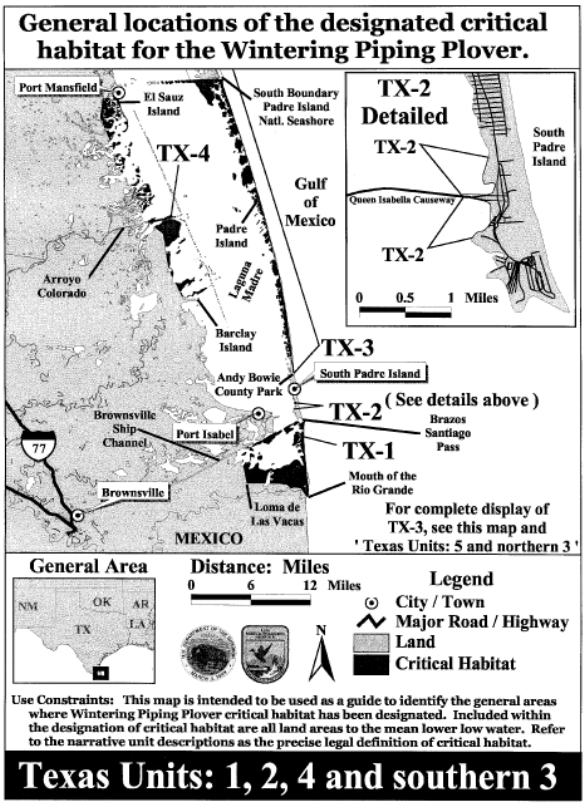
This unit consists of beach and sand flats on the north, west, and east shore of Big Reef, down to MLLW. South Jetty is not included. The area is currently managed by the City of Galveston. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–36: Bolivar Flats. 160 ha (395 ac) in Galveston County

This unit extends from the jetties on the southwest end of the Bolivar Peninsula to a point on the Gulf beach 1 km (0.6 mi) north of Beacon Bayou. It includes 5.0 km (3 mi) of Gulf shoreline. The landward boundary is the line indicating the beginning of dense vegetation, and the gulfside boundary is MLLW. The area is leased from TGLO by Houston Audubon Society and managed for its important avian resources. The upland areas are used for roosting by the piping plover. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.

Unit TX–37: Rollover Pass. 6 ha (16 ac) in Galveston County

This unit consists of Rollover Bay on the bayside of Bolivar Peninsula. The landward boundary is the line indicating the beginning of dense vegetation, and the bayside boundary is MLLW. It includes flats on State-owned land managed by the TGLO. This unit captures the intertidal complex of the bay, and is bounded by the towns of Gilchrist to the east and the Gulf beach of the Bolivar Peninsula to the south. This unit includes lands known as wind tidal flats that are infrequently inundated by seasonal winds.



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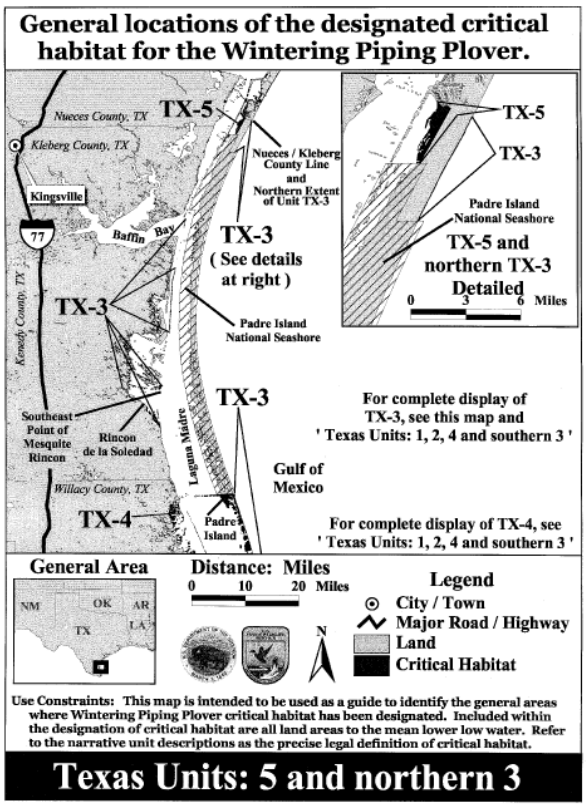

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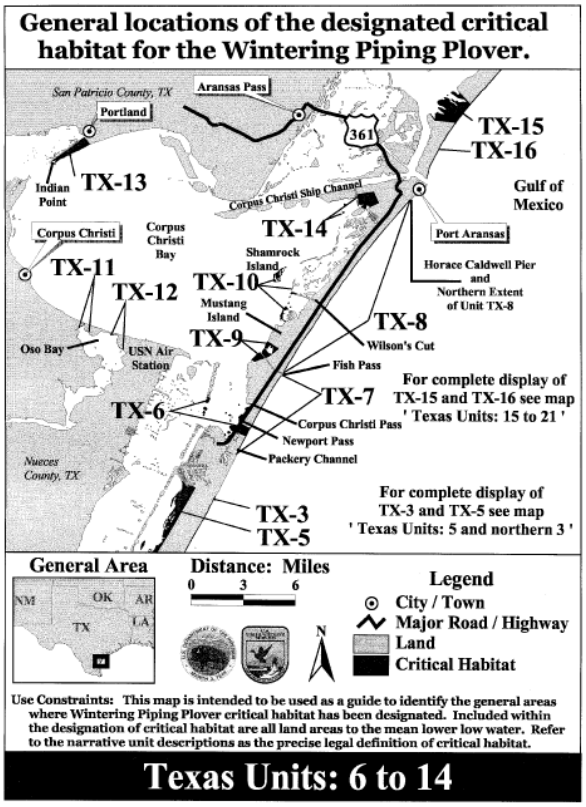

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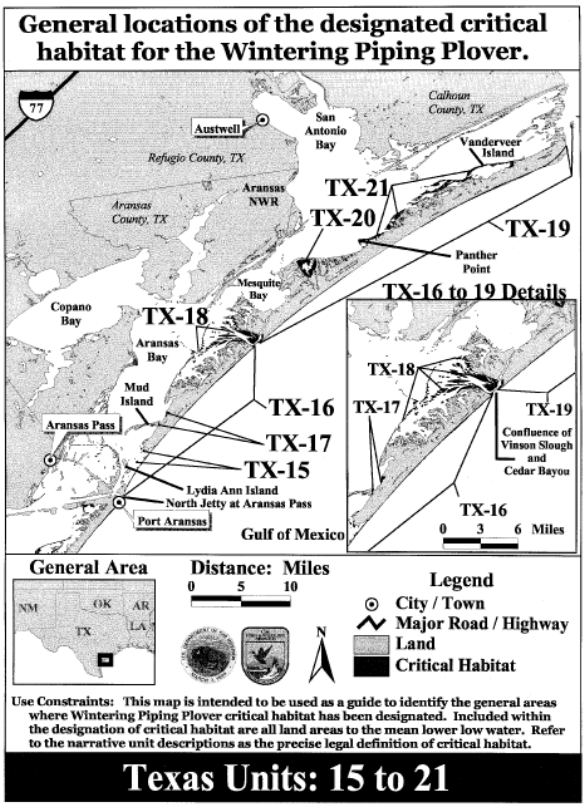

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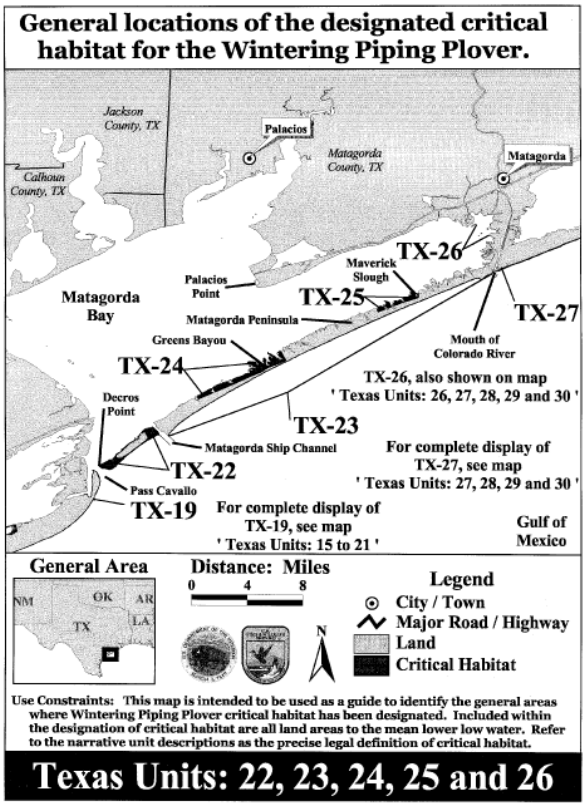

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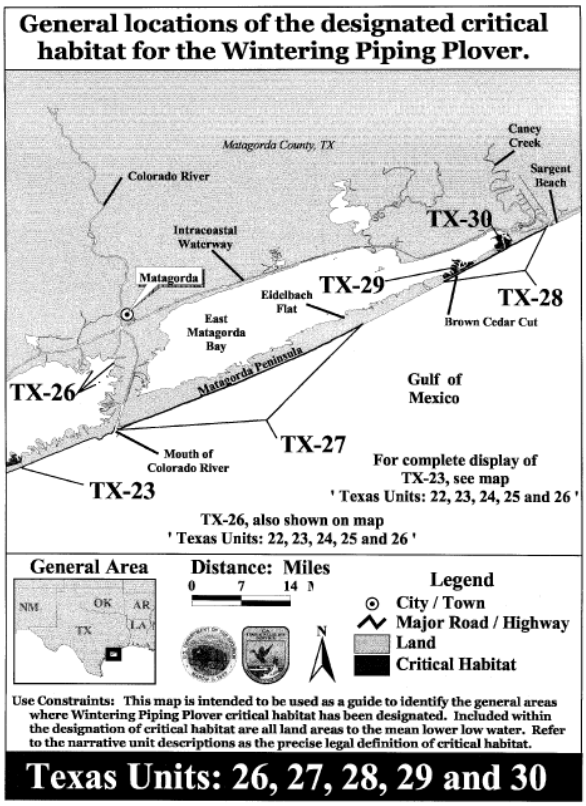

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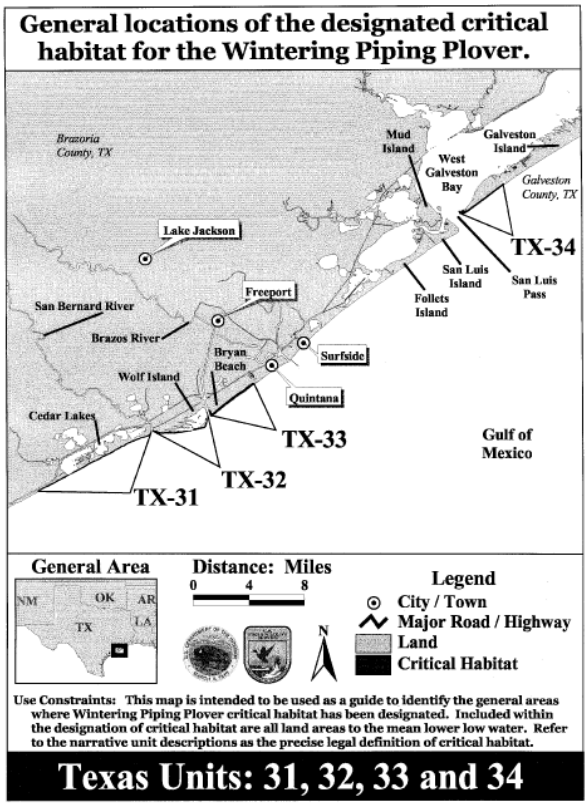

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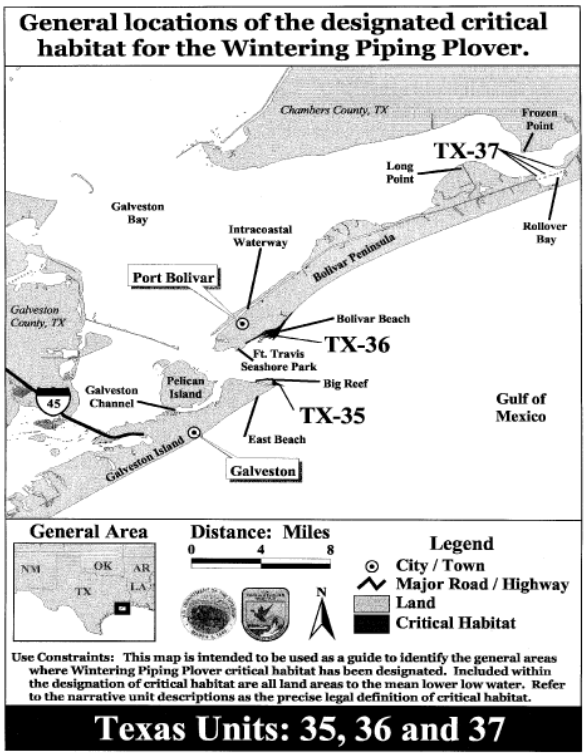

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Piping Plover (Charadrius melodus)—Northern Great Plains Breeding Population

1. Critical habitat units are depicted for Minnesota, Montana, Nebraska, North Dakota, and South Dakota, on the maps and as described below.

2. The one overriding primary constituent element (biological) required to sustain the northern Great Plains breeding population of piping plovers that must be present at all sites is the dynamic ecological processes that create and maintain piping plover habitat. Without this biological process the physical component of the primary constituent elements would not be able to develop. These processes develop a mosaic of habitats on the landscape that provide the essential combination of prey, forage, nesting, brooding and chick-rearing areas. The annual, seasonal, daily, and even hourly availability of the habitat patches is dependent on local weather, hydrological conditions and cycles, and geological processes. The biological primary constituent element, *i.e.*, dynamic ecological processes, creates different physical primary constituent elements on the landscape. These physical primary constituent elements exist on different habitat types found in the northern Great Plains, including mixosaline to hypersaline wetlands (Cowardin *et al.* 1979), rivers, reservoirs, and inland lakes. These habitat types or physical primary constituent elements that sustain the northern Great Plains breeding population of piping plovers are described as follows:

i. On prairie alkali lakes and wetlands, the physical primary constituent elements include—(1) shallow, seasonally to permanently flooded, mixosaline to hypersaline wetlands with sandy to gravelly, sparsely vegetated beaches, salt-encrusted mud flats, and/or gravelly salt flats; (2) springs and fens along edges of alkali lakes and wetlands; and (3) adjacent uplands 200 ft (61 m) above the high water mark of the alkali lake or wetland.

ii. On rivers the physical primary constituent elements include—sparsely vegetated channel sandbars, sand and gravel beaches on islands, temporary pools on sandbars and islands, and the interface with the river.

iii. On reservoirs the physical primary constituent elements include—sparsely vegetated shoreline beaches, peninsulas, islands composed of sand, gravel, or shale, and their interface with the water bodies.

iv. On inland lakes (Lake of the Woods) the physical primary constituent elements include—sparsely vegetated and windswept sandy to gravelly islands, beaches, and peninsulas, and their interface with the water body.

3. Critical habitat does not include existing developed areas such as mainstem dam structures, buildings, marinas, boat ramps, bank stabilization and breakwater structures, row cropped or plowed agricultural areas, roads and other lands (e.g., high bank bluffs along Missouri River) unlikely to contain primary constituent elements essential for northern Great Plains piping plover conservation.

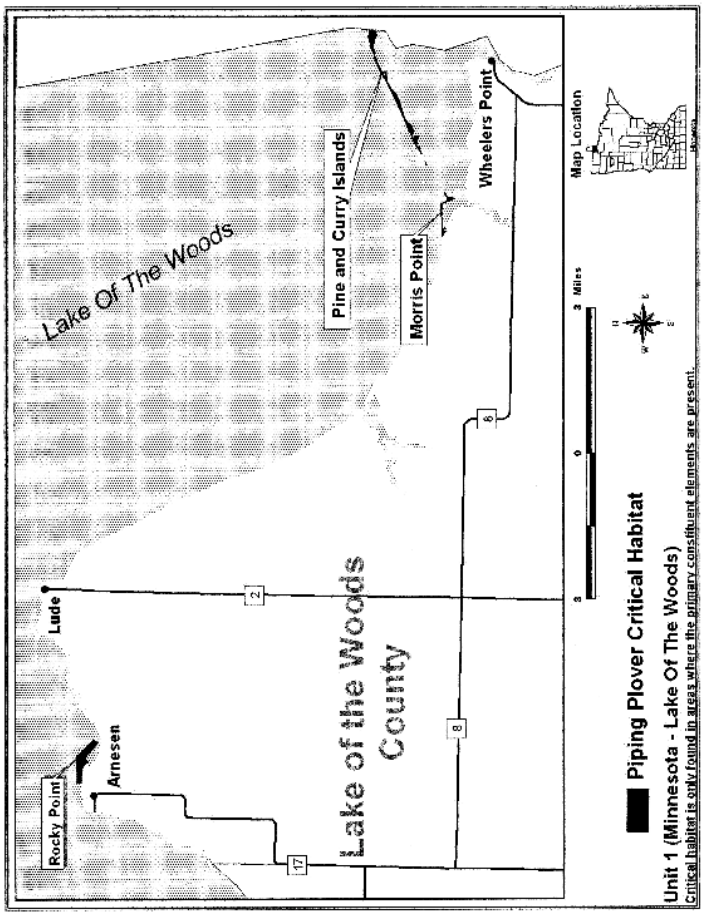
Minnesota

Projection: UTM Zone 15, NAD83, GRS 1980, Meters.

Unit MN–1: Rocky Point, Morris Point, and Pine and Curry Island.

This unit consists of sparsely vegetated and windswept sandy to gravelly islands, beaches, and peninsulas, and their interface with the water body (as defined in item 2 i-iv above) located in Lake of the Woods County in the following Township, Range, and Section(s):

Pine and Curry Islands: T. 162 N., R. 31 W., Sec. 1; T. 162 N., R. 32 W., Sec. 6, 10–12; Morris Point: T. 162 N., R. 32 W., Sec. 15–16; Rocky Point: T. 163 N., R. 34 W.; Sec. 4–5, 9.



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Montana

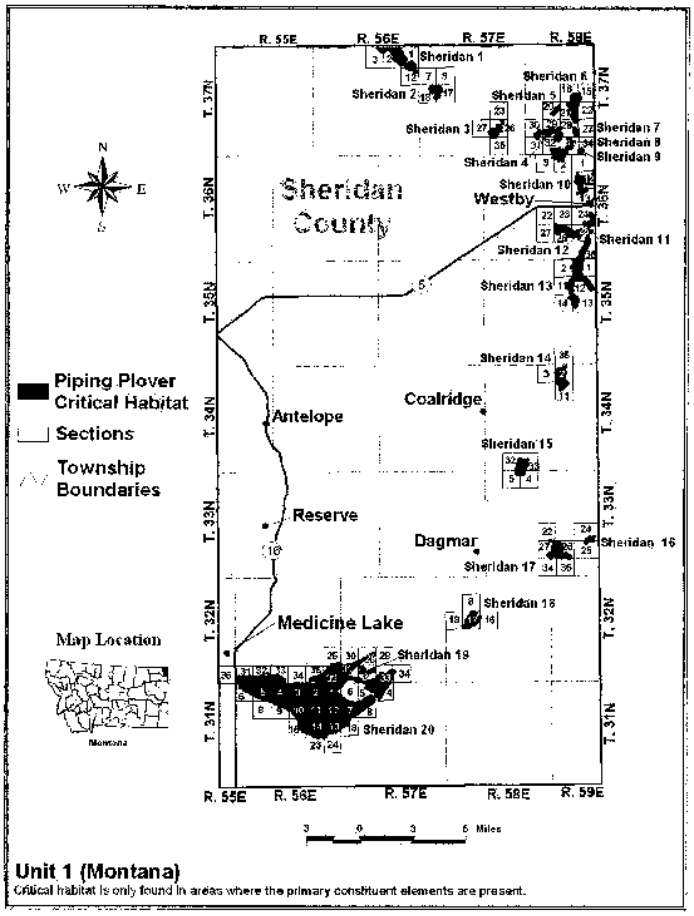
Projection: UTM Zone 13, NAD27, Clarke 1866, Meters.

Unit MT–1: Sheridan 1–20.

This unit consists of 20 alkali lakes and wetlands (as defined in item 2. i–iv. above) located in Sheridan County in the following Township, Range, and Section(s). The description that follows includes site map number; common name in parentheses; Township, Range, and Section(s); and UTM coordinate (X, Y) of the center point:

Sheridan 1 (Salt Lake); T. 37 N., R. 56 E., Sec. 1, 2, 12; T. 37 N., R. 57 E., Sec. 7; 551735.070, 5426228.954; Sheridan 2 (Galloway Lake); T. 37 N., R. 57 E., Sec. 7, 8, 17; 18; 555270.876, 5423341.594; Sheridan 3 (Lake North Of Espen); T. 37 N., R. 57 E., Sec. 7, 8, 17; 560733.568, 5420004.719; Sheridan 4

(Throntveit Lake); T. 37 N., R. 58 E., Sec. 28–33; 565501.589, 5419571.004; Sheridan 5 (Dog Leg WPA); T. 37 N., R. 58 E., Sec. 20; 566167.080, 5421711.910; Sheridan 6 (Anderson Lake); T. 37 N., R. 58 E., Sec. 15, 16, 21, 22, 27, 28; 567829.681, 5421938.009; Sheridan 7 (Gjesda; East WPA); T. 37 N., R. 58 E., Sec. 27, 28, 33; 568018.405, 5419742.779; Sheridan 8 (Flat Lake); T. 37 N., R. 58 E., Sec. 28, 32, 33; T. 36 N., R. 58 E., Sec. 2, 3; 566825.455, 5418175.594; Sheridan 9 (Lake North Of Stateline); T. 37 N., R. 58 E., Sec. 33, 34, T. 36 N., R. 58 E., Sec. 1; 568493.188, 5417985.314; Sheridan 10 (Round/Westby Lake); T. 36 N., R. 58 E., Sec. 1, 12, 13; 568830.499, 5415144.074; Sheridan 11 (Upper Goose Lake); T. 36 N., R. 58 E., Sec. 24, 25; 568964.588, 5411105.524; Sheridan 12 (West Goose Lake); T. 36 N., R. 58 E., Sec. 22, 23, 25–27; 567098.230, 5410658.484; Sheridan 13 (Goose Lake); T. 36 N., R. 58 E., Sec. 25, 36; T. 35 N., R. 58 E., Sec. 1, 2, 11–14; 568569.535, 5406908.114; Sheridan 14 (Big Slough WPA); T. 35 N., R. 58 E., Sec. 35; T. 34 N., R. 58 E., Sec. 1, 3, 11; 566846.207, 5397179.894; Sheridan 15 (Clear Lake); T. 34 N., R. 58 E., Sec. 32, 33; T. 33 N., R. 58 E., Sec. 4, 5; 563265.689, 5389005.274; Sheridan 16 (Erickson WPA); T. 33 N., R. 58 E., Sec. 24, 25; 569395.858, 5382318.164; Sheridan 17 (Parry Lake); T. 33 N., R. 58 E., Sec. 22, 26, 27, 34, 35; 566648.805, 5381422.559; Sheridan 18 (Katy's Lake); T. 32 N., R. 58 E., Sec. 8, 16–18; 558661.047, 5375001.119; Sheridan 19 (Deep Lake); T. 32 N., R. 57 E., Sec. 32; 548829.097, 5370424.894; Sheridan 20 (Medicine Lake); T. 31 N., R. 56 E., Sec. 1–6, 8–12, 13–15, 23, 24; T. 31 N., R. 57 E., Sec. 4–8, 18; T. 32 N., R. 55 E., Sec. 36, T. 32 N., R. 56 E., Sec. 25, 31–36; T. 32 N., R. 57 E., Sec. 28–34; 544469.013, 5368031.399.



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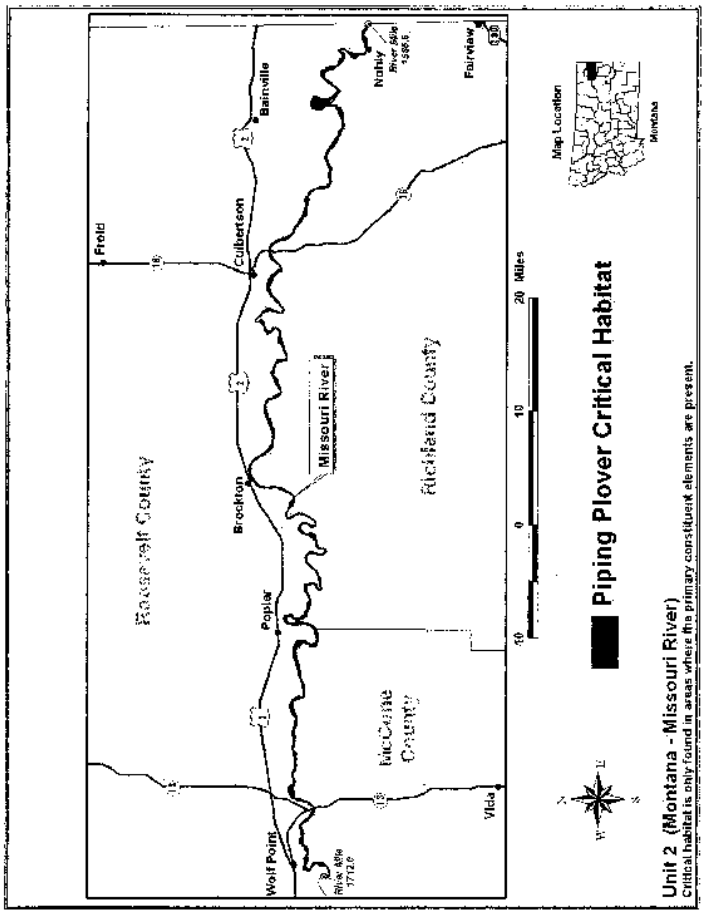
Unit MT–2: Missouri River—approximately 125.4 mi (201.8 km) from just west of Wolf Point, McCone County, Montana, at RM 1712.0 downstream to the Montana/North Dakota border, Richland County, Montana, and McKenzie County, North Dakota, at RM 1586.6 including TRS listed below. The Missouri River in this unit flows through reservation lands of the Assiniboine and Sioux Tribes of Fort Peck (81.7 mi (131.5 km), State, and privately owned land.

T. 26 N., R. 58 E., Sec. 1–6, T. 26 N., R. 59 E., Sec. 3–6, 9, 10, 13–16, 22–24; T. 27 N., R. 47 E., Sec. 21–24, 27–28, 33–34; T. 27 N., R. 48 E., Sec. 13–16, 19–22, 28–29, T. 27 N., R. 49 E., Sec. 13–18, 24; T. 27 N., R. 50 E., Sec. 14–21, 23–26; T. 27 N., R. 51 E., Sec. 7–8, 17–27, 30; T. 27 N., R. 52 E., Sec. 10–16, 19, 21–23, 27–32; T. 27 N., R. 53 E., Sec. 1–3, Sec. 6–7, 18; T. 27 N., R. 54 E., Sec. 1–6, 9–12; T. 27 N., R. 55 E., Sec. 1–5, 7–11; T. 27 N., R. 56 E., Sec. 2–6, 8–9, 11, 13–14, 24; T. 27 N., R. 57 E., Sec. 18–21, 27–28, 33–36; T. 27 N., R. 58 E., Sec. 23, 25–27, 31–32, 34–36; T. 27 N., R. 59 E., Sec. 29–32; T. 28 N., R. 53 E., Sec. 27–31, 33–34; T. 28 N., R. 54 E., Sec. 31–33; T. 28 N., R. 55 E., Sec. 33–35.



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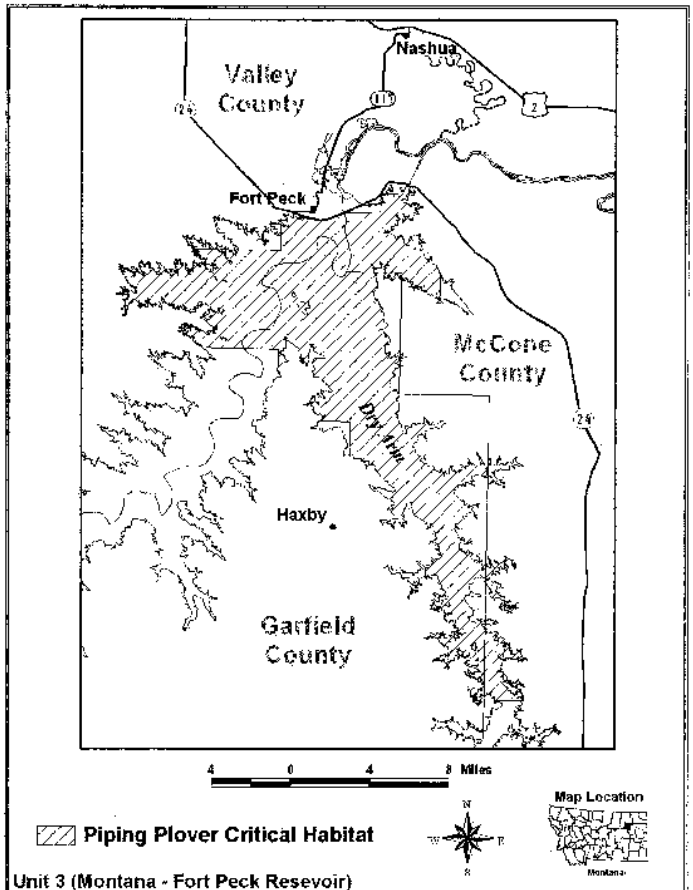
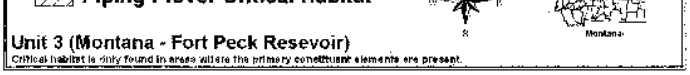
Unit MT–3, Fort Peck Reservoir—This unit encompasses approximately 77,370 acres (31,311 ha) of Fort Peck Reservoir, located entirely within the Charles M. Russell National Wildlife Refuge in Garfield, McCone, and Valley Counties. This unit consists of the following TRS:

T. 22 N., R.42E., Sec. 1–3, 10–15, 24; T. 22 N., R. 43 E., Sec. 6–8, 18–20; T. 23 N., R. 42 E., Sec. 10–15; T. 23 N., R. 42 E., Sec. 22–27, 34–36; T. 23 N., R. 43 E., Sec. 18–19, 30–31; T. 24 N., R. 41 E., Sec. 1–3, 10–13, 24; T. 24 N., R. 42 E., Sec. 5–8, 16–21, 25–36; T. 25 N., R. 39 E., Sec. 1–2, 11–12; T. 25 N., R. 40 E., Sec. 1–17, 20–24; T. 25 N., R. 41 E., Sec. 1–36; T. 25 N., R. 42 E., Sec. 5–6; T. 26 N., R. 39 E., Sec. 35–36; T. 26 N., R. 40 E., Sec. 31–36; T. 26 N., R. 41 E., Sec. 13–17, 19–36; T. 26 N., R. 42 E., Sec. 17–19, 29–32.





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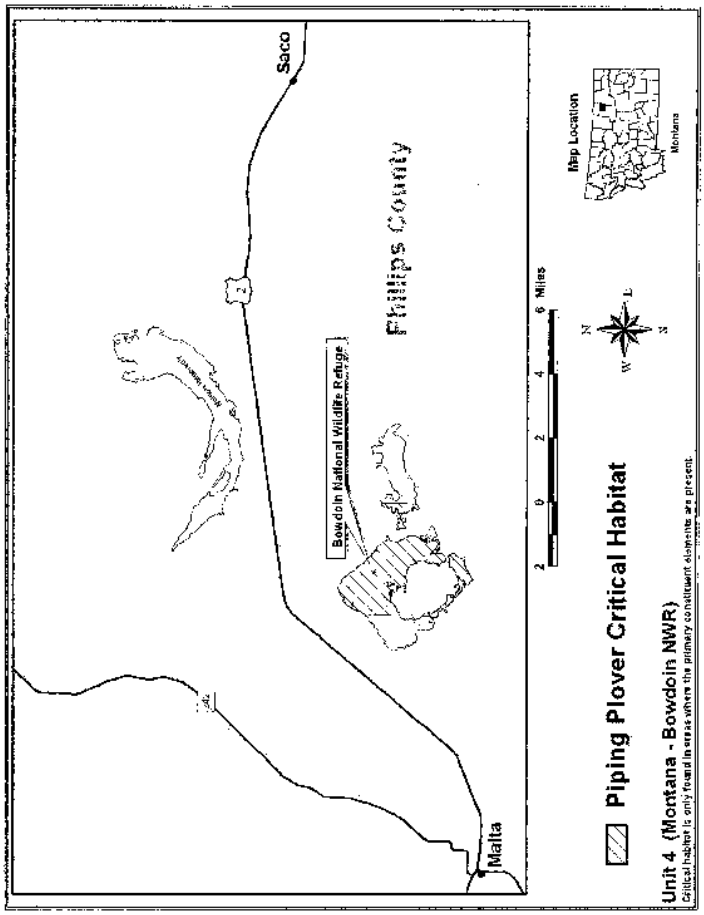
Unit MT–4: Bowdoin NWR.

This unit is located on Bowdoin National Wildlife Refuge in Phillips County and includes sparsely vegetated shoreline beaches, peninsulas, and islands composed of sand, gravel, or shale that interface with these water bodies in the following TRS:

Bowdoin NWR: T. 30 N., R. 31 E., Sec. 1–2, 4, 9–11; T. 31 N., R. 31 E., Sec. 21–22, 25–28, 33–36.



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Nebraska

Projection: UTM Zone 14, NAD83.

Unit NE–1: Platte, Loup, and Niobrara Rivers.

a. Platte River [1] Begins at the Lexington bridge over the main channel in Dawson County and extends downstream to its confluence with the Missouri River in Sarpy County and includes area within the river banks in the following Townships, Ranges, and Sections:

[1] Sections T. 17 N., R. 01 E., sec. 32 and T. 17 N., R. 01 E., sec. 33 are designated CH for both Platte and Loup Rivers.

T. 08 N., R. 13 W., Sec. 4–7; T. 08 N., R. 14 W., Sec. 9–12, 15–18; T. 08 N., R. 15 W., Sec. 13–21; T. 08 N., R. 16 W., Sec. 7,8, 13–18, 23, 24; T. 08 N., R. 17 W., Sec. 7,8,10–18; T. 08 N., R. 18 W., Sec. 2–12; T. 08 N., R. 19 W., Sec. 1–12; T. 08 N., R. 20 W., Sec. 1–12; T. 08 N., R. 21 W., Sec. 1,2, 12; T. 09 N., R. 10 W., Sec. 3–7; T. 09 N., R. 11 W., Sec. 1, 11, 12, 14–19; T. 09 N., R. 12 W., Sec. 13, 22–24; 26–31; T. 09 N., R. 13 W., Sec. 25–27, 31, 33–36; T. 09 N., R. 21 W., Sec. 20, 21, 27–29, 34–36; T. 10 N., R. 08 W., Sec. 6; T. 10 N., R. 09 W., Sec. 1, 11, 12, 14, 15, 21, 22, 28, 29; T. 10 N., R. 10 W., Sec. 25, 33, 34, 35, 36; T. 11 N., R. 07 W., Sec. 6; T. 11 N., R. 08 W., Sec. 1, 2, 10, 11, 15, 16, 20, 21, 29 30, 31; T. 11 N., R. 09 W., Sec.36; T. 12 N., R. 06 W., Sec. 6; T. 12 N., R. 07 W., Sec. 1, 2, 10–12, 14–16, 20–22, 29–31; T. 12 N., R. 08 W., Sec. 36; T. 13 N., R. 05 W., Sec. 5–7; T. 13 N., R. 06 W., Sec. 12–15, 21–23, 28, 29, 31, 32; T. 14 N., R. 04 W., Sec. 4, 5, 7–9, 18; T. 14 N., R. 05 W., Sec. 13, 14, 22, 23, 24, 27, 28, 32, 33; T. 14 N., R. 39 W., Sec. 2–5, 11; T. 15 N., R. 03 W., Sec. 3–5, 7–9, 17–19; T. 15 N., R. 04 W., Sec. 12–14, 23, 24, 26, 27, 33, 34; T. 15 N., R. 38 W., Sec. 19, 20, 21, 28–30, 33; T. 15 N., R. 39 W., Sec. 24, 25, 30, 31, 32, 33, 34; T. 15 N., R. 40 W., Sec. 10, 23, 24, 25, 26, 36; T. 16 N., R. 01 W., Sec. 1–4, 7–10, 17, 18; T. 16 N., R. 02 W., Sec. 10–16, 19–21 29, 30; T. 16 N., R. 03 W., Sec. 25, 26, 33–36; T. 17 N., R. 01 W., Sec. 36; T. 12 N., R. 10 E., Sec. 3–5, 9–13, 24; T. 12 N., R. 11 E., Sec. 1, 11, 12, 14–16, 18–21; T. 12 N., R. 12 E., Sec. 06; T. 13 N., R. 10 E., Sec. 4, 5, 7–9, 17–19, 29, 30, 32, 33; T. 13 N., R. 12 E., Sec. 25–28, 31–34, 36; T. 13 N., R. 13 E., Sec. 25, 26, 30–36; T. 14 N., R. 09 E., Sec. 1,12; T. 14 N., R. 10 E., Sec. 6–8, 17, 18, 20, 29, 32; T. 15 N., R. 09 E., Sec. 1–3, 11–13, 24, 25, 36; T. 15 N., R. 10 E., Sec. 19; T. 16 N., R. 01 E., Sec. 1, 2,4–6, 12; T. 16 N., R. 02 E., Sec. 1–12; T. 16 N., R. 03 E., Sec. 4–6; T. 16 N., R. 08 E., Sec. 1, 2, 12; T. 16 N., R. 09 E., Sec. 6–9, 16, 17, 21, 22, 27, 28, 33, 34; T. 17 N., R. 01 E., Sec. 31, 32, 33, 34, 35, 36, T. 17 N., R. 03 E., Sec. 25, 26, 27, 31, 32, 33, 34; T. 17 N., R. 04 E., Sec. 9–12, 14–17, 20, 21, 29, 30; T. 17 N., R. 05 E., Sec. 7–10, 13–15; T. 17 N., R. 06 E., Sec. 7–9, 14–18, 22–24; T. 17 N., R. 07 E., Sec. 13–24; T. 17 N., R. 08 E., Sec. 20, 21, 27–29, 34–36.

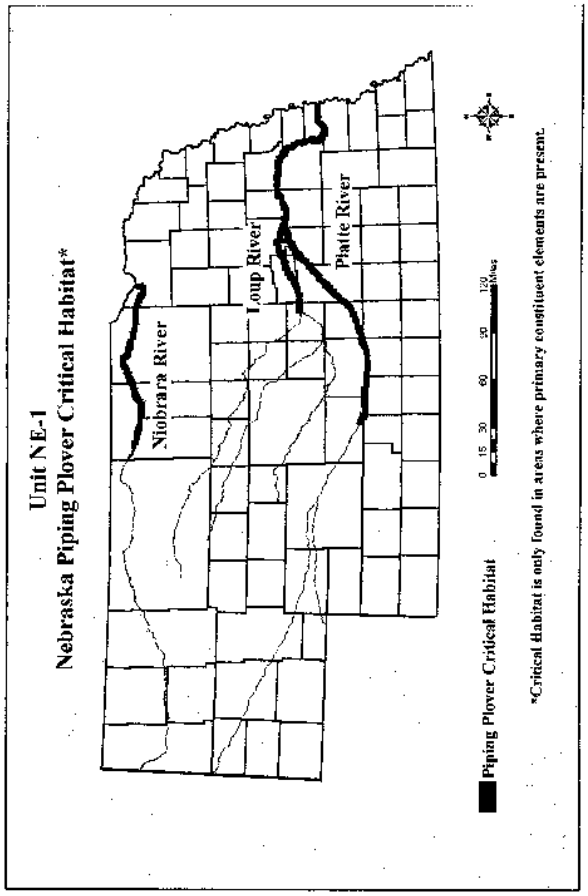
b. Loup River [2] Entire river beginning at the confluence of the North and Middle Loup Rivers to form the Loup River in Howard County, to its confluence with the Platte River in Platte County and includes area within the river banks in the following Townships, Ranges, and Sections:

[2] See footnote 1.

T. 15 N., R. 06 W., Sec. 06; T. 15 N., R. 07 W., Sec. 1–5, 7–10; T. 15 N., R. 08 W., Sec. 07, 8, 12–18; T. 15 N., R. 09 W., Sec. 7–18; T. 16 N., R. 04 W., Sec. 5, 6; T. 16 N., R. 05 W., Sec. 1–5, 7–10, 18; T. 16 N., R. 06 W., Sec. 13; 14, 22–24, 27–29, 31, 32; T. 16 N., R. 07 W., Sec. 36; T. 17 N., R. 01 W., Sec. 16, 17,.18, 21–23, 25, 26; T. 17 N., R. 02 W., Sec. 3, 4, 7–10, 13–15, 22–24; T. 17 N., R. 03 W., Sec. 10–21, 30; T. 17 N., R. 04 W., Sec. 24–28, 32–35; T. 17 N., R. 05 W., Sec. 35, 36; T. 17 N., R. 01 E., Sec. 29, 30, 32, 33.

c. Niobrara River: Begins at the bridge south of Norden in Keya Paha County and extends downstream to its confluence with the Missouri River in Knox County and includes area within the river banks in the following Townships, Ranges, and Sections:

T. 31 N., R. 06 W., Sec. 6; T. 31 N., R. 07 W., Sec. 01–4; T. 32 N., R. 06 W., Sec. 17–20, 29–31; T. 32 N., R. 07 W., Sec. 29–34, 36; T. 32 N., R. 08 W., Sec. 7, 8, 15–17, 22–25; T. 32 N., R. 09 W., Sec. 2–6, 8–12; T. 32 N., R. 10 W., Sec. 1–6, 9–12; T. 32 N., R. 11 W., Sec. 1–3; T. 32 N., R. 17 W., Sec. 5, 6; T. 32 N., R. 18 W., Sec. 1–4, 8–10, 16–19; T. 32 N., R. 19 W., Sec. 19, 20, 22–24, 26–30; T. 32 N., R. 20 W., Sec. 19–26; T. 32 N., R. 21 W., Sec. 7, 16, 17, 18, 20–24; T. 32 N., R. 22 W., Sec. 2–6, 8–14; T. 32 N., R. 23 W., Sec. 1, 2; T. 33 N., R. 11 W., Sec. 29, 30, 32–34; T. 33 N., R. 12 W., Sec. 17–21, 25–28, 36; T. 33 N., R. 13 W., Sec. 7–10, 14–18, 23, 24; T. 33 N., R. 14 W., Sec. 1, 12; T. 33 N., R. 15 W., Sec. 2–5, 7–9, 18; T. 33 N., R. 16 W., Sec. 11–16, 19–22, 29, 30; T. 33 N., R. 17 W., Sec. 25–27, 31, 33, 34; T. 33 N., R. 17 W., Sec. 35, 36; T. 33 N., R. 18 W., Sec. 36; T. 33 N., R. 23 W., Sec. 33, 34, 35; T. 34 N., R. 14 W., Sec. 26–31, 34, 35; T. 34 N., R. 15 W., Sec. 25, 35, 36.



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North Dakota

Projection: UTM Zone 14, NAD27, Clarke 1866, Meters.

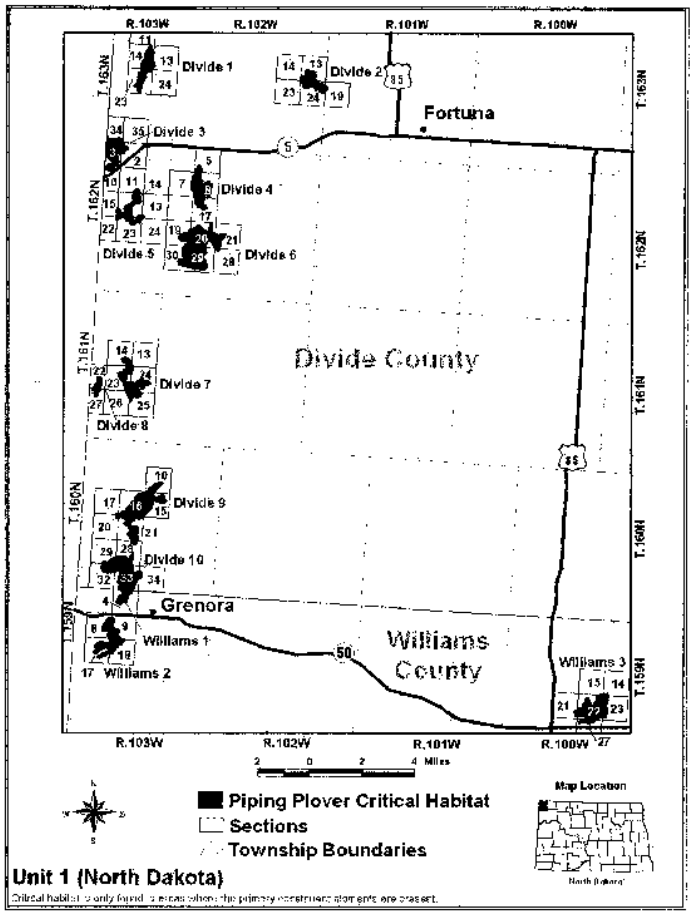
Unit ND–1: Divide 1–10, Williams 1–3.

This unit consists of 13 alkali lakes and wetlands (as defined in item 2 i–iv above) located in Divide and Williams Counties in the following Township, Range, and Section(s). The description that follows includes site map number; common name in parenthesis; Township, Range, and Section(s); and UTM coordinate (X, Y) of the center point:

Divide 1 (McCone Lake); T. 163 N., R. 103 W., Sec. 11, 13, 14, 23, 24; 132483.986, 5432552.457; Divide 2 (Radar WPA); T. 163 N., R. 101 W., Sec. 19, T. 163 N., R. 102 W., Sec. 13, 14, 23, 24; 143450.351, 5431765.782; Divide 3 (Westby Lake); T. 162 N., R. 103 W., Sec. 2, 3, 10, T. 163 N., R. 103 W., Sec. 34, 35; 130664.334, 5426964.175; Divide 4 (North Lake); T. 162 N., R. 102 W., Sec. 5, 7, 8, 17; 136194.956, 5424819.822; Divide 5 (No-Name 01); T. 162 N., R. 103 W., Sec. 11, 13–15, 22–24; 131550.101, 5423562.595; Divide 6 (Miller Lake) T. 162 N., R. 102 W., Sec. 19–21, 28–30; 136221.252, 5420997.659; Divide 7 (Daneville Lake); T. 161 N., R. 103 W., Sec. 13, 14, 23–26; 131145.927, 5412367.023; Divide 8 (Johnson WPA); T. 161 N., R. 103 W., Sec. 22, 27; 129454.347, 5411841.319; Divide 9 (Camp Lake); T. 160 N., R. 103 W., Sec. 10, 15–17, 20, 21, 28; 132345.880, 5403610.519; Divide 10 (Africa Lake); T. 160 N., R. 103 W., Sec. 28, 29, 32–34; 131067.961, 5399853.506; Williams 1 (Africa Lake); T. 159 N., R. 103 W., Sec. 4; 131252.336, 5398158.780; Williams 2 (Twin Lake); T. 159 N., R. 103 W., Sec. 8, 9, 16, 17;

130274.523, 5395507.964; Williams 3 (Appam Lake); T. 159 N., R. 100 W., Sec. 14, 15, 21–23, 27; 161534.618, 5390959.346.

Unit ND–2: Burke 1–3, Mountrail 1–10, Renville 1.



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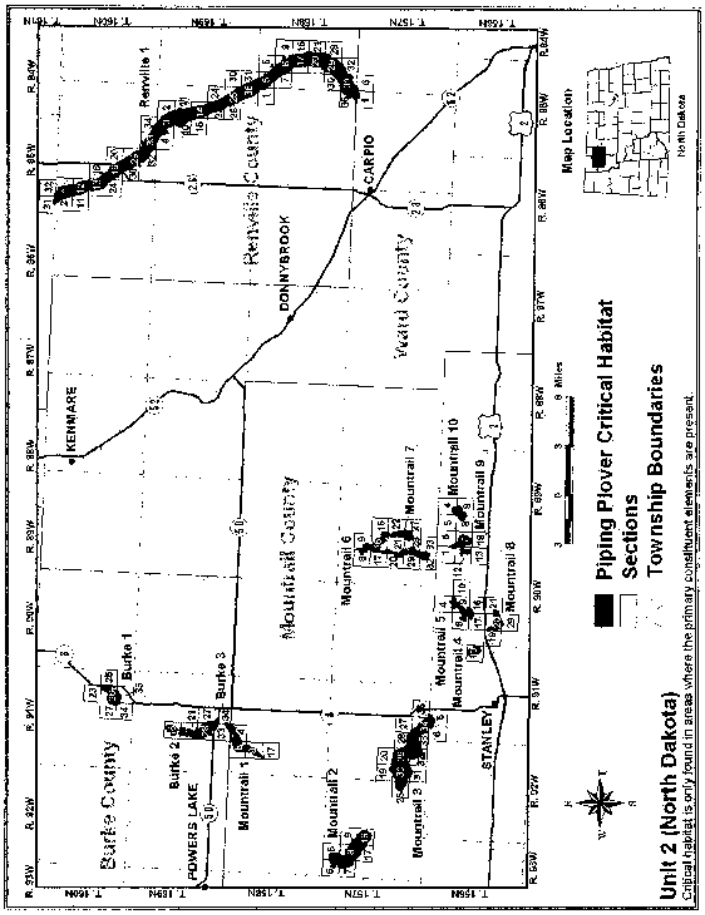
Unit ND–2: Burke 1–2, Mountrail 1–10, Renville 1.

This unit consists of 14 alkali lakes and wetlands (as defined in item 2 i–iv above) located in Burke, Renville, and Mountrail Counties in the following Township, Range, and Section(s). The description that follows includes site map number; common name in parenthesis; Township, Range, and Section(s); and UTM coordinate (X,Y) of the center point:

Burke 1 (Thompson Lake); T. 160 N., R. 91 W., Sec. 23, 25–27, 34, 35; 249736.234, 5394198.422; Burke 2 (Knudson Slough); T. 159 N., R. 91 W., Sec. 16, 21, 27, 28, 33, 34; 245951.025, 5385634.794; Burke 3 (Salt Wetland); T. 159 N., R. 91 W., Sec. 33,34, T. 158 N., R. 91 W., Sec. 4; 246764.949, 5382725.766; Mountrail 1 (Lower Lostwood Lake); T. 158 N., R. 91 W., Sec. 4, 5, 8, 17, T. 159 N., R. 91 W., Sec. 33; 244500.547, 5380906.195; Mountrail 2 (Cottonwood Lake); T. 157 N., R. 92 W., Sec. 5–9, 16, 17; 234663.178, 5370756.188; Mountrail 3 (White Lake); T. 156 N., R. 91 W., Sec. 5, 6, T. 157 N., R. 91 W., Sec. 19, 20, 27–35, T. 157 N., R. 92 W., Sec. 25; 244128.820, 5364745.652; Mountrail 4 (BLM 01); T. 156 N., R. 91 W., Sec. 13; 254103.216, 5358673.926; Mountrail 5 (Halvorson WPA); T. 156 N., R. 90 W., Sec. 4, 8–10, 16, 17; 2588354.936, 5359918.409; Mountrail 6 (Redmond Lake); T. 157 N., R. 89 W., Sec. 8, 9, 16, 17, 20, 21, 28, 29, 32, 33; 263839.454, 5366646.371; Mountrail 7 (Redmond Lake Southeast); T. 157 N., R. 89 W., Sec. 15, 16, 21, 22, 27, 28; 265502.148, 5366251.040; Mountrail 8 (Palermo SW); T. 156 N., R. 90 W., Sec. 19–21, 29; 257212.039, 5356658.356; Mountrail 9 (Piping Plover WPA); T. 156 N., R. 89 W., Sec. 6, 7, 18, T. 156 N., R. 90 W., Sec. 1, 12, 13; 264548.981, 5359978.921; Mountrail 10 (USA 01); T. 156 N., R. 89 W., Sec. 4, 5, 8, 9; 267688.206, 5360; Renville 1 T. 157 N., R. 84 W., Sec. 6, T. 157 N., R. 85 W., Sec. 1, T. 158 N., R. 84 W., Sec. 5–9, 16, 17, 20, 21, 28–32, T. 158 N., R. 85 W., Sec. 1, 36, T. 159 N., R. 84 W., Sec. 30, 31, T. 159 N., R. 85 W., Sec. 2–4, 10, 11, 14, 15, 24–26, 36, T. 160 N., R. 85 W., Sec. 18–20, 29, 30, 32, 33, 34, T. 160 N., R. 86 W., Sec. 1, 2, 11–13, 24, T. 161 N., R. 85 W., Sec. 31, 32; 307279.646, 5385022.925;



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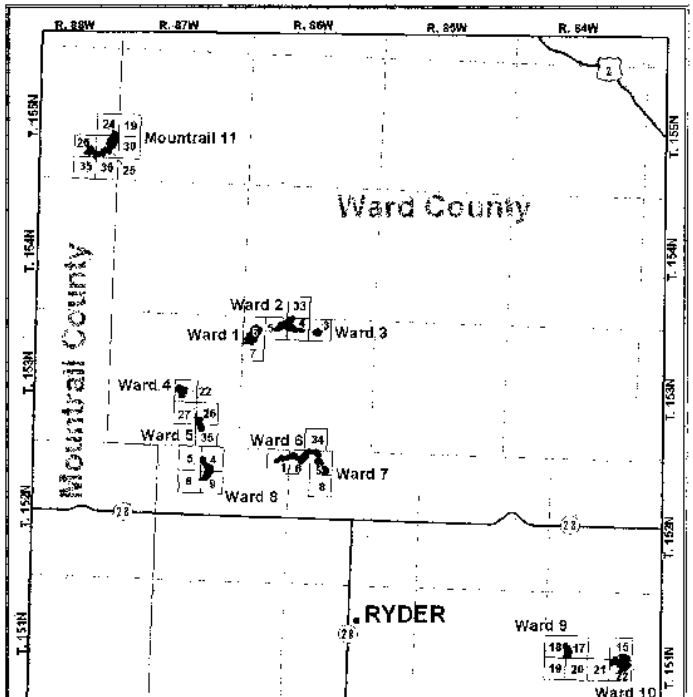
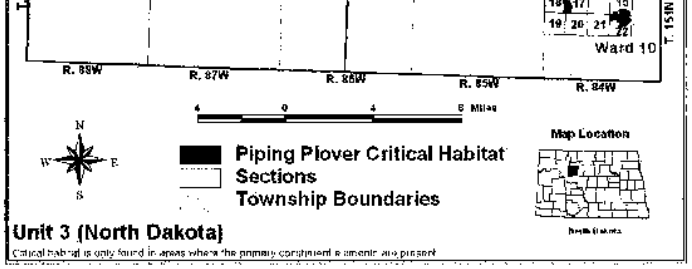
Unit ND–3: Mountrail 11, Ward 1–10.

This unit consists of 11 alkali lakes and wetlands (as defined in item 2 i-iv above) located in Mountrail and Ward Counties in the following Township, Range, and Section(s). The description that follows includes site map number; common name in parenthesis; Township, Range, and Section(s); and UTM coordinate (X, Y) of the center point:

Mountrail 11 (USA 03); T. 155 N., R. 87 W., Sec. 19, 30, T. 155 N., R. 88 W., Sec. 24–26, 35, 36; 282515.422, 5344702.765; Ward 1 (Wheeler Lake); T. 153 N., R. 86 W., Sec. 6, 7; 292853.430, 5330725.995; Ward 2 (Schaefer Lake); T. 153 N., R. 86 W., Sec. 4, 5, T. 154 N., R. 86 W., Sec. 33; 295503.020, 5331528.170; Ward 3 (Simonson Lake); T. 153 N., R. 86 W., Sec. 3; 297540.190, 5330903.772; Ward 4 (Weltikot WPA); T. 153 N., R. 87 W., Sec. 22; 287595.875, 5326568.445; Ward 5 (Galusha WPA); T. 153 N., R. 87 W., Sec. 26, 27, 35; 288918.535, 5324257.230; Ward 6 (LGFR); T. 152 N., R. 86 W., Sec. 5, 6, T. 152 N., R. 87 W., Sec. 1, T. 153 N., R. 86 W., Sec. 34; 296191.685, 5321732.495; Ward 7 (Roberts Lake); T. 152 N., R. 86 W., Sec. 5, 8; 298162.740, 5320754.445; Ward 8 (Orlein WPA); T. 152 N., R. 87 W., Sec. 4, 5, 8, 9; 289443.885, 5320877.280; Ward 9 (Foss Lake); T. 151 N., R. 84 W., Sec. 17–20; 315877.075, 5307516.530; Ward 10 (Danielson WPA); T. 151 N., R. 84 W., Sec. 15, 21, 22; 319713.809, 5306604.459.





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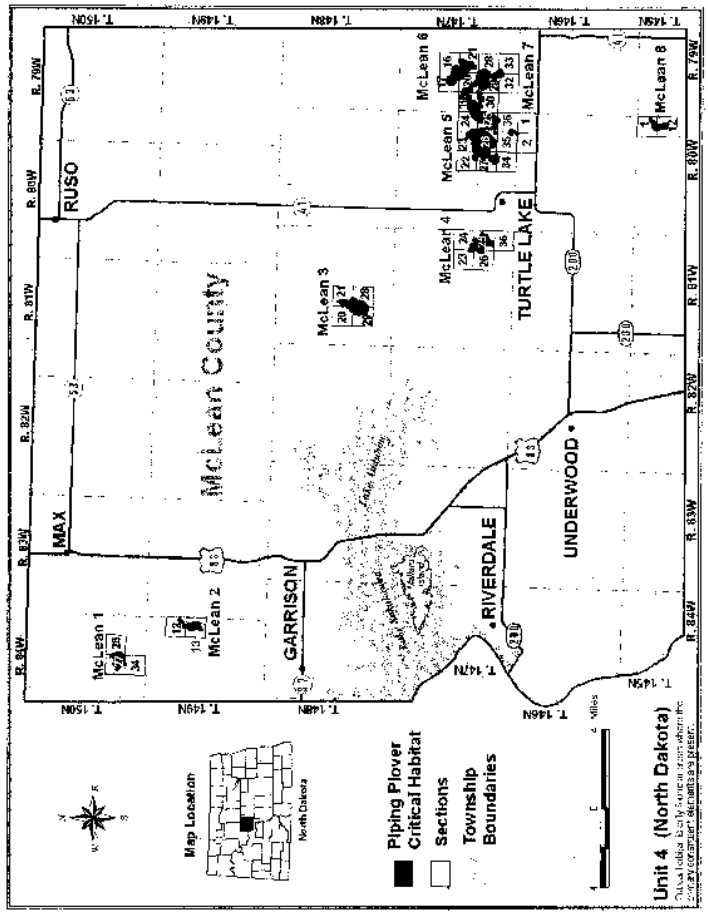
Unit ND–4: McLean 1–8.

This unit consists of eight alkali lakes and wetlands (as defined in item 2 i-iv above) located in McLean County in the following Township, Range, and Section(s). The description that follows includes site map number; common name in parenthesis; Township, Range, and Section(s); and UTM coordinate (X, Y) of the center point:

McLean 1 (Crystal Lake); T. 150 N., R. 84 W., Sec. 26, 27, 34; 319688.770, 5294525.701; McLean 2 (Engel Lake); T. 149 N., R. 84 W., Sec. 12, 13; 322716.750, 5288701.540; McLean 3 (Lake Nettie); T. 148 N., R. 81 W., Sec. 20, 21, 28, 29; 348624.522, 5275584.490; McLean 4 (Cherry Lake); T. 147 N., R. 81 W., Sec. 23–26, 36; 353837.658, 5265184.800; McLean 5 (Lake Williams); T. 147 N., R. 79 W., Sec. 19–21, 28–30, 32, 33, T. 147 N., R. 80 W., Sec. 22–27, 34, 36; 364083.475, 5265192.285; McLean 6 (Blue Lake); T. 147 N., R. 79 W., Sec. 16, 17, 20, 21; 367727.830, 5266869.230; McLean 7 (Tractor Lake); T. 146 N., R. 80 W., Sec. 1, 2, 35, 36; 362857.085, 5262620.315; McLean 8 (Koeing WDA); T. 145 N., R. 80 W., Sec. 1, 12; 363258.729, 5250887.545.



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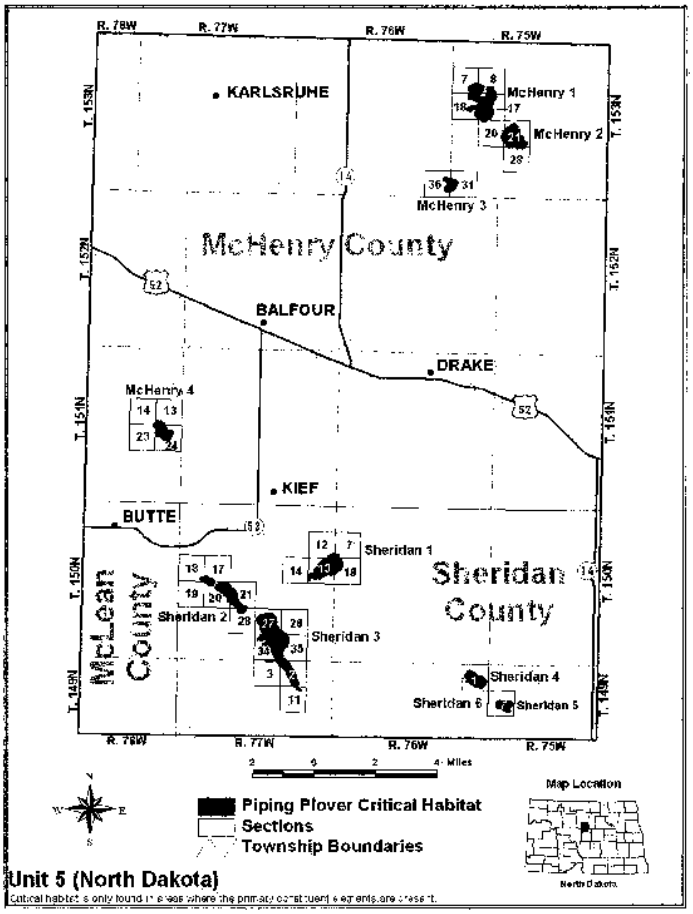
Unit ND–5: McHenry 1–4, Sheridan 1–6.

This unit consists of 10 alkali lakes and wetlands (as defined in item 2 i-iv above) located in McHenry and Sheridan Counties in the following Township, Range, and Section(s). The description that follows includes site map number; common name in parenthesis; Township, Range, and Section(s); and UTM coordinate (X, Y) of the center point:

McHenry 1 (Lake Lemer); T. 153 N., R. 75 W., Sec. 7, 8, 17, 18, 20; 400056.197, 5325316.812; McHenry 2 (Bromley Lake); T. 153 N., R. 75 W., Sec. 20, 21, 28; 402047.786, 5323231.640; McHenry 3 (Crooked Lake); T. 153 N., R. 75 W., Sec. 31, T. 153 N., R. 76 W., Sec. 36; 398136.708, 5320218.780; McHenry 4 (Spiche WPA); T. 151 N., R. 78 W., Sec. 13, 14, 23, 24; 380388.750, 5304863.342; Sheridan 1 (Kandt Lake); T. 150 N., R. 76 W., Sec. 7, 18, T. 150 N., R. 77 W., Sec. 12–14; 390437.732, 5296427.775; Sheridan 2 (Moesner Lake); T. 150 N., R. 77 W., Sec. 17–21, 28; 384577.857, 5294515.153; Sheridan 3 (Krueger Lake); T. 149 N., R. 77 W., Sec. 2, 3, 11, T. 150 N., R. 77 W., Sec. 26, 27, 34, 35; 387560.771, 5291126.275; Sheridan 4 (New Lake); T. 149 N., R. 76 W., Sec. 1; 399759.605, 5289417.669; Sheridan 5 (Plover Pond); T. 149 N., R. 75 W., Sec. 7; 401849.925, 5287906.865; Sheridan 6 (Gadwall Lake); T. 149 N., R. 75 W., Sec. 7; 401439.445, 5287735.436.



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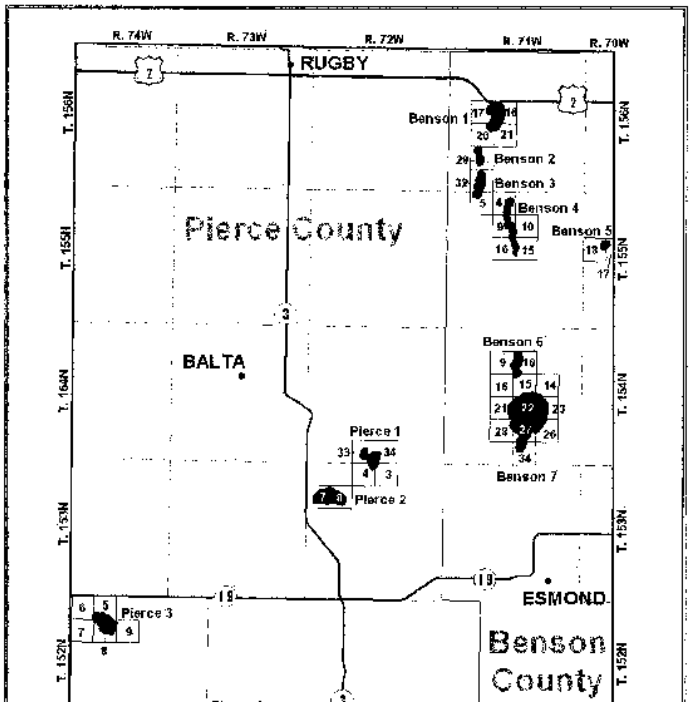
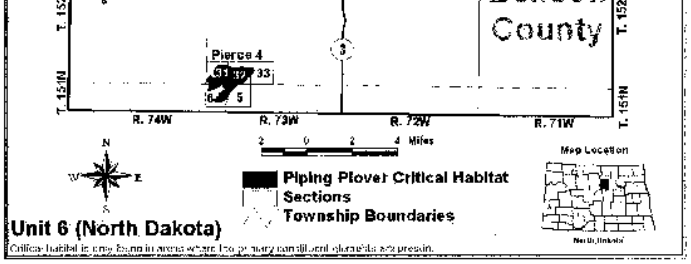
Unit ND–6: Benson 1–7, Pierce 1–4.

This unit consists of 11 alkali lakes and wetlands (as defined in item 2 i–iv above) located in Benson and Pierce Counties in the following Township, Range, and Section(s). The description that follows includes site map number; common name in parenthesis; Township, Range, and Section(s); and UTM coordinate (X, Y) of the center point:

Benson 1 (Horseshoe Lake); T. 156 N., R. 71 W., Sec. 16, 17, 20, 21; 440518.660, 5353030.147; Benson 2 (Shively WPA); T. 156 N., R. 71 W., Sec. 20, 29; 439353.229, 5350282.062; Benson 3 (Pfeifer Lake); T. 155 N., R. 71 W., Sec. 5, T. 156 N., R. 71 W., Sec. 32; 439370.542, 5348281.846; Benson 4 (Long Lake WPA) T. 155 N., R. 71 W., Sec. 4, 9, 10, 15, 16; 441621.551, 5345274.731; Benson 5 (Volk WPA West); T. 155 N., R. 70 W., Sec. 17, 18; 448265.688, 5344009.988; Benson 6 (Simon WPA); T. 154 N., R. 71 W., Sec. 9, 10, 15, 16; 442022.195, 5335513.405; Benson 7 (Cranberry Lake); T. 154 N., R. 71 W., Sec. 14, 15, 21–23, 26–28, 34; 442842.177, 5331453.343; Pierce 1 (Sandhill Crane WPA); T. 153 N., R. 72 W., Sec. 3, 4, T. 154 N., R. 72 W., Sec. 33, 34; 431750.466, 5328861.394; Pierce 2 (Petrified Lake); T. 153 N., R. 72 W., Sec. 7, 8; 428853.027, 5326213.903; Pierce 3 (Orrin Lake); T. 152 N., R. 74 W., Sec. 5–9; 413060.595, 5317206.795; Pierce 4 (Little Antelope Lake); T. 151 N., R. 73 W., Sec. 5, 6, T. 152 N., R. 73 W., Sec. 31–33; 421895.100, 5309374.573.





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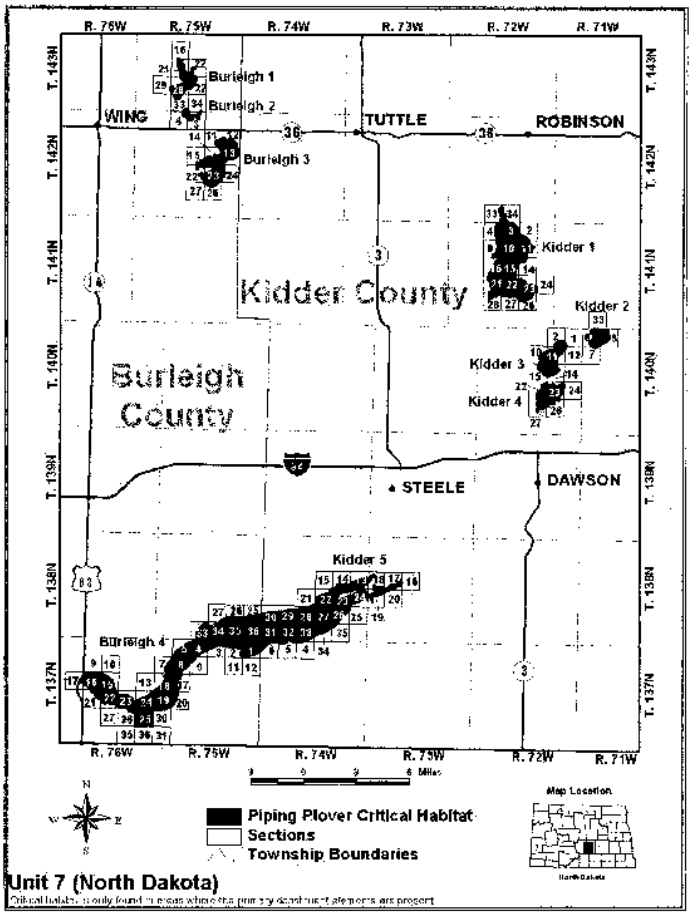
Unit ND–7: Burleigh 1–4, Kidder 1–5.

This unit consists of nine alkali lakes and wetlands (as defined in item 2 i–iv above) located in Burleigh and Kidder Counties in the following Township, Range, and Section(s). The description that follows includes site map number; common name in parenthesis; Township, Range, and Section(s); and UTM coordinate (X, Y) of the center point:

Burleigh 1 (Rath WPA); T. 143 N., R. 75 W., Sec. 16, 21, 22, 27–29, 33; 410335.925, 522591.163; Burleigh 2 (Rachel Hoff); T. 142 N., R. 75 W., Sec. 3, 4, T. 143 N., R. 75 W., Sec. 33, 34; 411135.195, 5222640.220; Burleigh 3 (Lake Arena); T. 142 N., R. 75 W., Sec. 11–15, 22–24, 26, 27; 413457.835, 5218315.984; Burleigh 4 (Long Lake NWR); T. 137 N., R. 75 W., Sec. 1–12, 17–20, 30, 31, T. 138 N., R. 75 W., Sec. 25–27, 33–36, T. 137 N., R. 76 W., Sec. 9, 10, 13, 15–17, 21–27, 35, 36; 409304.489, 5171717.886; Kidder 1 (Horsehead Lake); T. 141 N., R. 72 W., Sec. 2–4, 9–11, 14–16, 21–24, 26–28, T. 142 N., R. 72 W., Sec. 33, 34; 440436.505, 5209889.760; Kidder 2 (Spring Lake); T. 140 N., R. 71 W., Sec. 5–7, T. 141 N., R. 71 W., Sec. 33; 448424.870, 5202157.335; Kidder 3 (Sibley Lake); T. 140 N., R. 72 W., Sec. 1, 2, 10–12, 14, 15; 444092.995, 5200289.957; Kidder 4 (Big Muddy Lake); T. 140 N., R. 72 W., Sec. 22–24, 26, 27; 443892.205, 5196747.645; Kidder 5 (Long Lake NWR); T. 137 N., R. 74 W., Sec. 4–6, T. 138 N., R. 73 W., Sec. 16–20, T. 138 N., R. 74 W., Sec. 13–15,21–35; 423970.257, 5176976.647.



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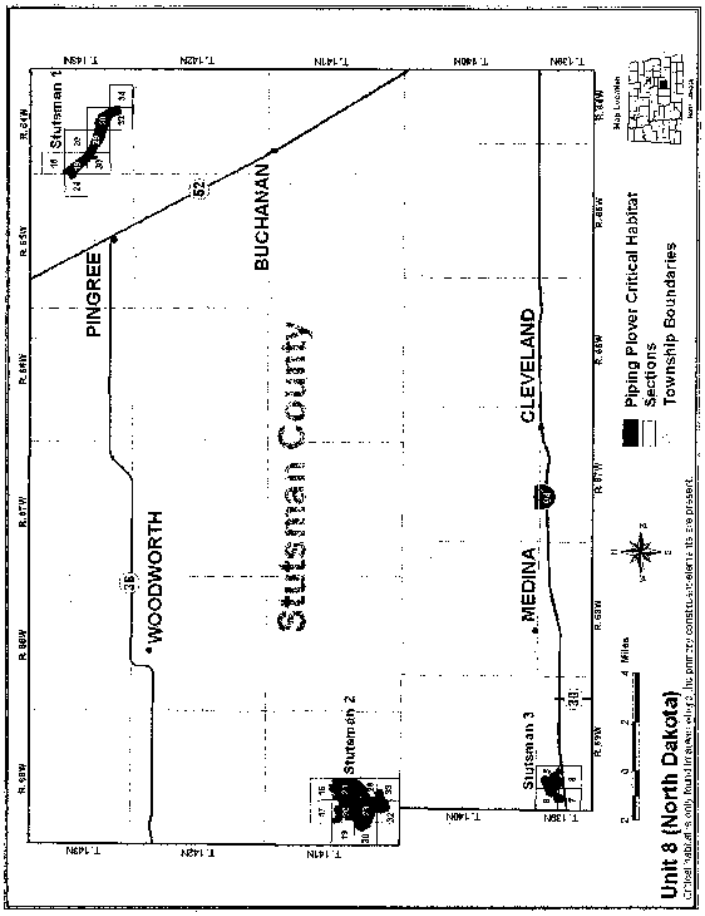
Unit ND–8: Stutsman 1–3.

This unit consists of three alkali lakes and wetlands (as defined in item 2 i–iv above) located in Stutsman County in the following Township, Range, and Section(s). The description that follows includes site map number; common name in parenthesis; Township, Range, and Section(s); and UTM coordinate (X, Y) of the center point:

Stutsman 1 (Jim Lake); T. 143 N., R. 64 W., Sec. 18–20, 28–30, 33, 34, T. 143 N., R. 65 W., Sec. 24; 513814.853, 5224895.395; Stutsman 2 (Chase Lake); T. 141 N., R. 69 W., Sec. 16, 17, 19–21, 28–30, 32, 33; 466386.425, 5205713.905; Stutsman 3 (Stink Lake 01); T. 139 N., R. 69 W., Sec. 5–8; 467714.455, 5191874.900.



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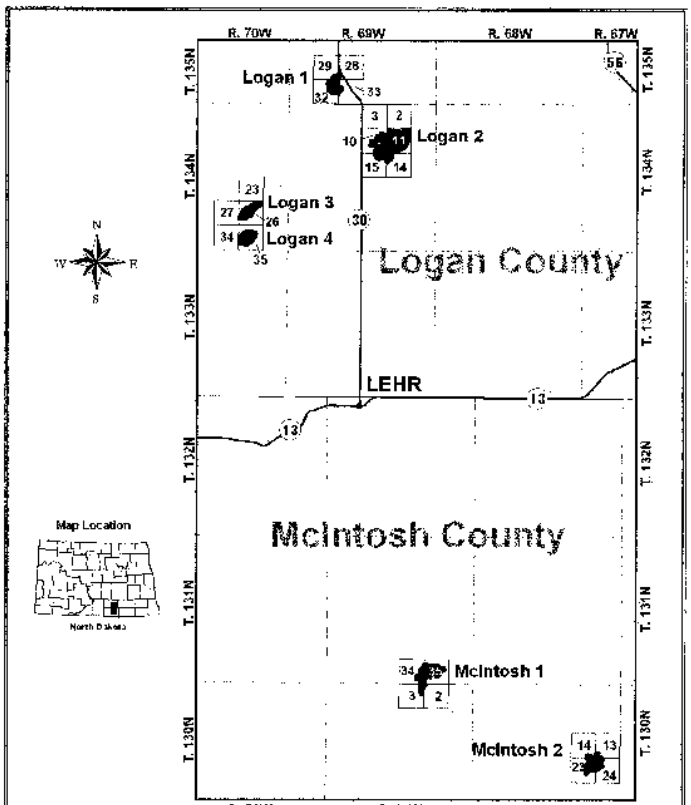
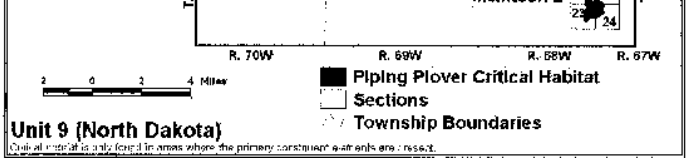
Unit ND–9: Logan 1–4, McIntosh 1–2.

This unit consists of six alkali lakes and wetlands (as defined in item 2 i–iv above) located in Logan and McIntosh Counties in the following Township, Range, and Section(s). The description that follows includes site map number; common name in parenthesis; Township, Range, and Section(s); and UTM coordinate (X, Y) of the center point:

Logan 1 (Eberie Lake); T. 135 N., R. 69 W., Sec. 28, 29, 32, 33; 471236.510, 5146008.575; Logan 2 (Schweigert WPA); T. 134 N., R. 69 W., Sec. 2, 3, 10, 11, 14, 15; 474875.710, 5141918.770; Logan 3 (Baltzer WPA); T. 134 N., R. 70 W., Sec. 23, 26, 27; 465722.478, 5137658.555; Logan 4 (Logan County WMA); T. 134 N., R. 70 W., Sec. 34, 35; 465577.090, 5135812.195; McIntosh 1 (Turkey Island WPA); T. 130 N., R. 69 W., Sec. 2, 3, T. 131 N., R. 69 W., Sec. 34, 35; 476990.724, 5106836.450; McIntosh 2 (McIntosh 02); T. 130 N., R. 68 W., Sec. 13, 14, 23, 24; 488392.570, 5101297.805.





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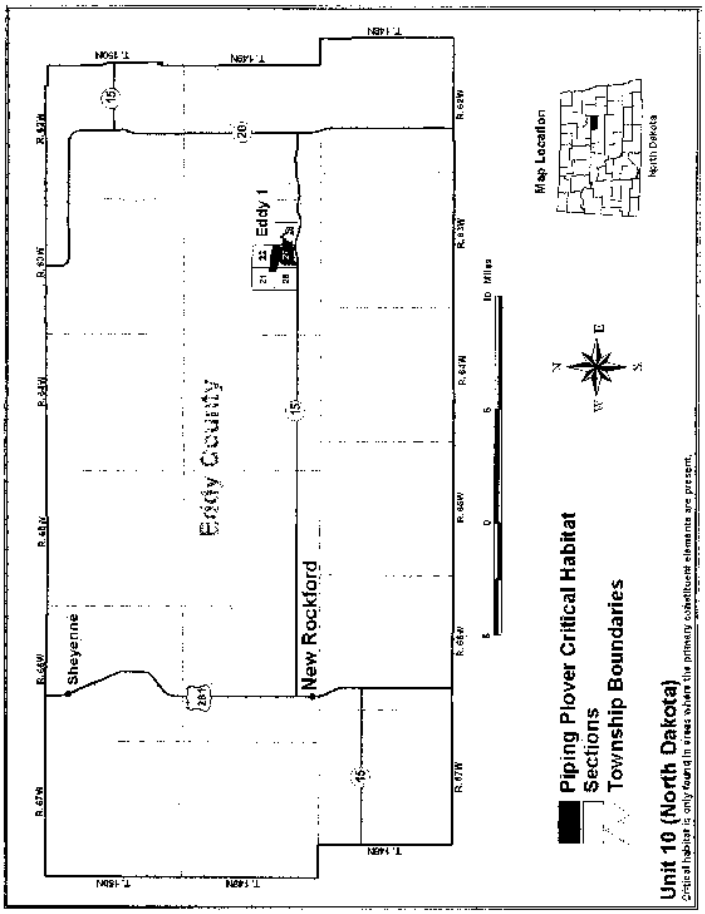
Unit ND–10: Eddy 1.

This unit consists of one alkali lake and wetland (as defined in item 2 i–iv above) located in Eddy County in the following Township, Range, and Section(s). The description that follows includes site map number; common name in parenthesis; Township, Range, and Section(s); and UTM coordinate (X, Y) of the center point:

Eddy 1 (Lake Coe); T. 149 N., R. 63 W., Sec. 21, 22, 26–28; 522343.035, 5282341.250.



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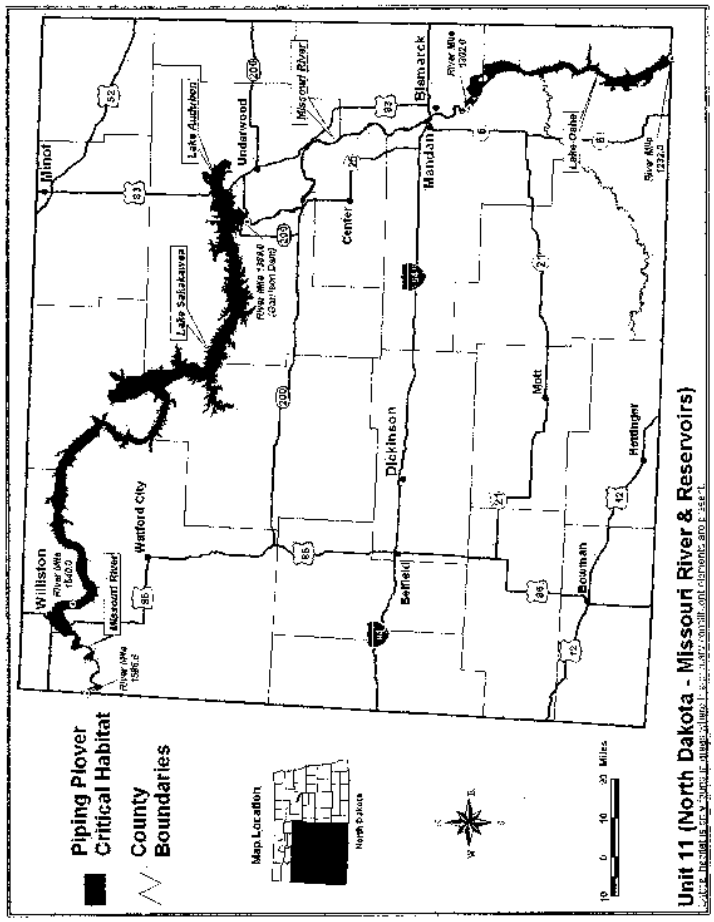
Unit ND–11: Missouri River.

Approximately 354.6 mi (570.6 km) from the Montana/North Dakota border just west of Williston, McKenzie County, North Dakota, at RM 1586.6 downstream to the North Dakota/South Dakota border in Sioux and Emmons Counties, North Dakota, and Corson and Campbell Counties, South Dakota, at RM 1232.0. Lake Sakakawea, Lake Audubon, and Lake Oahe are included in this unit, along with a free-flowing stretch of the Missouri River from RM 1389 to 1302 (Garrison Reach). This unit consists of the following TRS:

T. 129 N., R. 78 W., Sec. 19, 29–32 ; T. 129 N., R. 79 W., Sec. 3–6, 8–11, 13–16, 21–27, 35–36, T. 129 N., R. 80 W., Sec. 1, T. 130 N., R. 79 W., Sec. 3–9, 17–21, 27–34, T. 130 N., R. 80 W., Sec. 1–3, 10–14, 23–26, 36; T. 131 N., R. 79 W., Sec. 4–9,17–20, 29–32, T. 131 N., R. 80 W., Sec. 1, 11–15, 22–26, 35–36; T. 132 N., R. 78 W., Sec. 15–22; T. 132 N., R. 79 W., Sec. 3–5, 8–10, 13–16, 21–24, 26–29, 32–36. T. 133 N., R. 78 W., Sec. 5–8, 18–19, 30; T. 133 N., R. 79 W., Sec. 1–2, 11–13, 23–28, 34–36; T. 134 N., R. 78 W., Sec. 31; T. 134 N., R. 79 W., Sec. 2–3, 10–16, 22–26, 35–36, T. 135 N., R. 78 W., Sec. 6–7, T. 135 N., R. 79 W., Sec. 1–2, 11–15, 22–24, Sec. 26–27, 34–35; T. 136 N., R. 78 W., Sec. 18–19, 30–31; T. 136 N., R. 79 W., Sec. 1–3, 5–6, 8–16, 22–27, 35–36, T. 137 N., R. 79 W., Sec. 8, 14–23, 26–36, T. 137 N., R. 80 W., Sec. 3–5, T. 8–11, 13–17, 22–26, 36, T. 138 N., R. 80 W., Sec. 5–7, 18–19, 28–34, T. 138 N., R. 81 W., Sec. 13, 24–25; T. 139 N., R. 80 W., Sec. 30–31, T. 139 N., R. 81 W., Sec. 3–4, Sec. 10–11, 14, 23–26; T. 140 N., R. 81 W., Sec. 5, 8–9, 16, 21, 27–28, 33, T. 141 N., R. 80 W., Sec. 7, 18; T. 141 N., R. 81 W., Sec. 1–3, 11–13, 24–27, 33–35, T. 142 N., R. 81 W., Sec. 4–5, 9–10, 15–16, 21–22, 27–28, 34–35, T. 143 N., R. 81 W., Sec. 5–8, 18–19, 29–33, T. 144 N., R. 81 W., Sec. 30–32, T. 144 N., R. 82 W., Sec. 14–18, 23–25, T. 144 N., R. 83 W., Sec. 13–14, 21–24, 27–34, T. 144 N., R. 84 W., Sec. 5–9, 14–17, 22–25, T. 145 N., R. 84 W., Sec. 5, 8–9, 15–16, 21, 22, 27,. 34–35; T. 146 N., R. 84 W., Sec. 4–7, 18–20, 29–30, Sec. 32; T. 146 N., R. 85 W., Sec. 12–13, 24; T. 146 N., R. 86 W., Sec. 3, T. 146 N., R. 86 W., Sec. 6–7, T. 146 N., R. 87 W., Sec. 1–10, 18, T. 146 N., R. 88 W., Sec. 1–14, 16–18, 20–21, 24; T. 146 N., R. 89 W., Sec. 1–2, 10–12, T. 147 N., R. 82 W., Sec. 2–6, 8–11, 15–18, T. 147 N., R. 83 W., Sec. 1–9, Sec. 16–20, T. 147, N., R. 84 W., Sec. 1–24, T. 147 N., R. 85 W., Sec. 1–27, 28–35, 29–31, 34–36, T. 147 N., R. 86 W., Sec. 1–3, 7, 9–36; T. 147 N., R. 87 W., Sec. 7–36, T. 147 N., R. 88 W., Sec. 6–11, 13–36; T. 147 N., R. 89 W., Sec. 1–29, 34–36; T. 147 N., R. 90 W., Sec. 1–18, 20, 23–27; T. 147 N., R. 91W., Sec. 1–7, 11–12; T. 147 N., R. 92 W., Sec. 1–9, 12–13, 16–20, 29–30, 32; T. 147 N., R. 93 W., Sec. 1–2, 12–13, T. 148 N., R. 82 W., Sec. 7–8, 17–20, 28–34; T.

148 N., R. 83 W., Sec. 11–15, 19–36, T. 148 N., R. 84 W., Sec. 18–19, 22–27, 29–36; T. 148 N., R. 85 W., Sec. 19–20, 24–25, 27, T 29–36; T. 148 N., R. 86 W., Sec. 23–28, 33–36; T. 148 N., R. 89 W., Sec. 30–32, T. 148 N., R. 90 W., Sec. 6, 19–21, 25–36; T. 148 N., R. 91 W., Sec. 1–12, 14–17, 19–36, T. 148 N., R. 92 W., Sec. 13, 20–22, 24–36; T. 148 N., R. 93 W., Sec. 24–25, 35–36, T. 149 N., R. 89 W., Sec. 7, 18; T. 149 N., R. 90 W., Sec. 3–24, 27–33; T. 149 N., R. 91 W., Sec. 1–4, 6, 9–15, 23–26, 34–36; T. 149 N., R. 92 W., Sec. 1–6, 10–12, 14–16; T. 149 N., R. 93 W., Sec. 1–2, T. 150 N., R. 90 W., Sec. 18–19, 29–31; T. 150 N., R. 91 W., Sec. 1–36, T. 150 N., R. 92 W., Sec. 13–14, 19–20, 23–36; T. 150 N., R. 93 W., Sec. 6–9, 13–36, T. 150 N., R. 94 W., Sec. 1–2, 12–15, 22, 24; T. 151 N., R. 91 W., Sec. 1–11, 14–23, 26–35, T. 151 N., R. 92 W., Sec. 1–3, 10–14, 23–26, 36; T. 151 N., R. 93 W., Sec. 5–8, 16–21, 30–31, T. 151 N., R. 94 W., Sec. 1–3, 10–15, 24–26, 35–36; T. 152 N., R. 91W., Sec. 19, 22–28, 30–35, T. 152 N., R. 92 W., Sec. 18–19, 21–28, 34–36; T. 152 N., R. 93 W., Sec. 1–16, 20–23, 27–34, T. 152 N., R. 94 W., Sec. 1, 36, T. 152 N., R. 99 W., Sec. 2–6, T. 152 N., R. 100 W., Sec. 1–12, T. 152 N., R. 100 W., Sec. 14–18, T. 152 N., R. 100 W., Sec. 20, 22; T. 152 N., R. 101 W., Sec. 1–2, 12–13; T. 152 N., R. 102 W., Sec. 6–7, T. 152 N., R. 103 W., Sec. 3–4, 9–16, 20–23, 28–30, T. 152 N., R. 104 W., Sec. 7–8, 13–15, 17–18, 20–25, 28–29; Sec. 32–33, T. 153 N., R. 92 W., Sec. 31–33, T. 153 N., R. 93 W., Sec. 5–9, 15–23, 26–30, 32–36; T. 153 N., R. 94 W., Sec. 1–14, 16, 24; T. 153 N., R. 95 W., Sec. 5–6, T. 153 N., R. 96 W., Sec. 1, 4–5; T. 153 N., R. 97 W., Sec. 1–2, 4–7, 11; T. 153 N., R. 98 W., Sec. 1–3, 11–15, 19–35, T. 153 N., R. 99 W., Sec. 22–29, 31–36, T. 153 N., R. 100 W., Sec. 4–9, 16–21, 27–30, 32–35; T. 153 N., R. 101 W., Sec. 1–11, 15–20, 30; T. 153 N., R. 102 W., Sec. 1, 12–13, 21–28, 33–36; T. 154 N., R. 93 W., Sec. 31, T. 154 N., R. 94 W., Sec. 15, 19–23, 25–36; T. 154 N., R. 95 W., Sec. 11, 13–14, 17–36, T. 154 N., R. 96 W., Sec. 2–3, 10–11, 13–16, 18–36; T. 154 N., R. 97 W., Sec. 13–16, 19–36; T. 154 N., R. 98 W., Sec. 25, 35–36; T. 154 N., R. 100 W., Sec. 19, 29–33, T. 154 N., R. 101 W., Sec. 22–29, 31–36.



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South Dakota

Projection: UTM Zone 14, NAD 27, Clarke 1866, Meters.

Unit SD–1: Missouri River.

Approximately 159.7 mi (257 km) from the North Dakota/South Dakota border northeast of McLaughlin, Corson County, South Dakota, at RM 1232.0 downstream to RM 1072.3, just north of Oahe Dam (Oahe Reservoir) including the following TRS:

T. 6 N., R. 29 E., Sec. 1–6, 8–11, 14–16, 21–23, 25–27, 35–36; T. 6 N., R. 30 E., Sec. 22–34; T. 6 N., R. 31 E., Sec. 19; T. 7 N., R. 28 E., Sec. 1,T. 7 N., R. 28 E., Sec. 12–13, 36; T. 7 N., R. 29 E., Sec. 5–9, 15–17, 20–28, 31–32, 34–36, [3] ; T. 7 N., R. 30 E., Sec. 19–20, 29–32; T. 8 N., R. 23 E., Sec. 1; T. 8 N., R. 24 E., Sec. 4–6; T. 8 N., R. 26 E., Sec. 4; T. 8 N., R. 28 E., Sec. 1, 11–14, 23–25; T. 8 N., R. 29 E., Sec. 4–9, 16–20, 29–31; T. 9 N., R. 23 E., Sec. 36; T. 9 N., R. 24 E., Sec. 12–15, 22–28, 31–34, T. 9 N., R. 25 E., Sec. 1–2, 7–18, 20–25, 27; T. 9 N., R. 26 E., Sec. 1–9, 10–23, 26, 28–30, 32–33; T. 9 N., R. 27 E., Sec. 1–12; T. 9 N., R. 28 E., Sec. 3–9, 13–20, 22–26, 35–36; T. 9 N., R. 29 E., Sec. 1–4, 18–20, 29–32; T. 9 N., R. 30 E., Sec. 6; T. 10 N., R. 26 E., Sec. 10, 13, 15–16, 19–20, 22–29, 32–36; T. 10 N., R. 27 E., Sec. 9, 15–16, 21–36; T. 10 N., R. 28 E., Sec. 1–6, 8–17, 19–21, 24, 29–33; T. 10 N., R. 29 E., Sec. 1, 4–9, T. 10 N., R. 29 E., Sec. 12–13, 16–22, 24–25, 27–30, 32–36; T. 10 N., R. 30 E., Sec. 1–12, 14–19, 20, 29, 30–31, T. 10 N., R. 31 E., Sec. 6; T. 11 N., R. 27 E., Sec. 36; T. 11 N., R. 28 E., Sec. 25, 27–36; T. 11 N., R. 29 E., Sec. 24–26, 31, 36; T. 11 N., R. 30 E., Sec. 1–2, 11–14, 23–26, 31–33, 35–36; T. 11 N., R. 31 E., Sec. 30–31; T. 12 N., R. 30 E., Sec. 1–4, 10–14, 22–28, 34–36; T. 12 N., R. 31 E., Sec. 1–7, 10–12, T. 13 N., R. 30 E., Sec. 1, 31–34; T. 13 N., R. 30

E., Sec. 36; T. 13 N., R. 31 E., Sec. 3–10, 16–17, 20–21, 27–28, 30–35; T. 14 N., R. 30 E., Sec. 36; T. 14 N., R. 31 E., Sec. 1–5, 9–11, 14–15, 22–23, 26–28, 31–35; T. 15 N., R. 30 E., Sec. 1; T. 15 N., R. 31 E., Sec. 4–6, 10–11,13–15, 23–27, 32–33, 35–36; T. 16 N., R. 28 E., Sec. 13–14, 21–24, 26–28; T. 16 N., R. 29 E., Sec. 1–3, 7–22, 24, 29–30; T. 16 N., R. 30 E., Sec. 1–13, 16–18, 36; T. 16 N., R. 31 E., Sec. 1–2, 6–8, 10–11, 14–19, 20–22, 27–34; T. 17 N., R. 29 E., Sec. 36; T. 17 N., R. 30 E., Sec. 1, 28, 31, 33–34; T. 17 N., R. 31 E., Sec. 6–8, 16–18, 20–21, 27–28, 33–34; T. 18 N., R. 29 E., Sec. 1–2, 12–13; T. 18 N., R. 30 E., Sec. 18–27, 35–36; T. 18 N., R. 31 E., Sec. 31; T. 19 N., R. 28 E., Sec. 2–6; T. 19 N., R. 29 E., Sec. 1–18, 20–26, 34–36, T. 19 N., R. 30 E., Sec. 4, 7–9, 16–21, 28–32; T. 20 N., R. 27 E., Sec. 25, 36; T. 20 N., R. 28 E., Sec. 24–27, 30–36; T. 20 N., R. 29 E., Sec. 19, 29–32, 34; T. 20 N., R. 30 E., Sec. 22, 24–27,. 32–34, 36; T. 20 N., R. 31 E., Sec. 4–6, 8–9, 16, T. 20 N., R. 31 E., Sec. 19–21, 28–32; T. 21 N., R. 30 E., Sec. 2–4,10–11, 14, 23–26, 36; T. 21 N., R. 31 E., Sec. 31; T. 22 N., R. 29 E., Sec. 1–2, 11–12; T. 22 N., R. 30 E., Sec. 5–8, 14–17, 21–23, 27–28, 33–34, [4] ; T. 23 N., R. 29 E., Sec. 20–22, 27–28, 33–36; [5] ; T. 23 N., R. 30 E., Sec. 29–32; T. 107 N., R. 71 W., Sec. 30–32; T. 111 N., R. 80 W., Sec. 1–3, 6; T. 111 N., R. 81 W., Sec. 1–4; T. 112 N., R. 79 W., Sec. 31; T. 112 N., R. 80 W., Sec. 4–9, 17–18, 23, 25–36; T. 112 N., R. 81 W., Sec. 1, 12–15, 22–28, 33–36; T. 113 N., R. 80 W., Sec. 3–4, 9–10, T. 113 N., R. 80 W., Sec. 4, 9, 16–21, 28–34; T. 113 N., R. 81 W., Sec. 5–8, 13, 15–17, 20–29, 34–36; T. 114 N., R. 80 W., Sec. 33–34; T. 114 N., R. 81 W., Sec. 4–5, 9–10,16–17, 20–21, 27–29, 31–33; T. 115 N., R. 80 W., Sec. 2–5, 7–10, 16–20; T. 115 N., R. 81 W., Sec. 6–7, 16–21, 25–30, 32–33, 35–36; T. 115 N., R. 82 W., Sec. 1–4, 9–16, 22–25; T. 116 N., R. 79 W., Sec. 4–9, 17–20, T. 116 N., R. 80 W., Sec. 24–27, 33–35; T. 116 N., R. 82 W., Sec. 33–36; T. 117 N., R. 79 W., Sec. 5–8, 17–18, 20, 29, 32–33, [6] ; T. 118 N., R. 78 W., Sec. 3–10, 16–18, 20–21, 29–30; T. 118 N., R. 79 W., Sec. 1, 12, 20–32; T. 119 N., R. 79 W., Sec. 3–5; T. 119 N., R. 78 W., Sec. 7–9, 17–20, 30–31; T. 119 N., R. 79 W., Sec. 24–25, 36; T. 120 N., R. 78 W., Sec. 2–4, 9–11, 15–17, 20–22, 27–29, 32–34, [7] ; T. 121 N., R. 78 W., Sec. 3–11, 15–18, 20–22, 26–28, 34–35; T. 122 N., R. 78 W., Sec. 3–5, 9, 15–16, 21–22, 27–28, 32–34; T. 123 N., R. 78 W., Sec. 6–8, 18–20, 29–33; T. 123 N., R. 79 W., Sec. 1–3, 11–13, 24–25; T. 124 N., R. 78 W., Sec. 31; T. 124 N., R. 79 W., Sec. 5–7, 18, 29–34; T. 124 N., R. 80 W., Sec. 12–14, 23–26, 35–36; T. 125 N., R. 78 W., Sec. 4–5, 7–8; T. 125 N., R. 79 W., Sec. 9–17, 20–22, 27–29, 32–33, [7] ; T. 126 N., R. 78 W., Sec. 5–8, 17–18, 20–21, 27–29, 32–33; T. 126 N., R. 79 W., Sec. 1, 12; T. 127 N., R. 78 W., Sec. 31; T. 127 N., R. 79 W., Sec. 1–2, 11, 14, 23–26, 36; T. 128 N., R. 78 W., Sec. 16–19, 29–31; T. 128 N., R. 79 W., Sec. 5–9, 13, 16–17, 20–22, 24–29, 35–36; T. 128 N., R. 80 W., Sec. 1–3, 10–12.

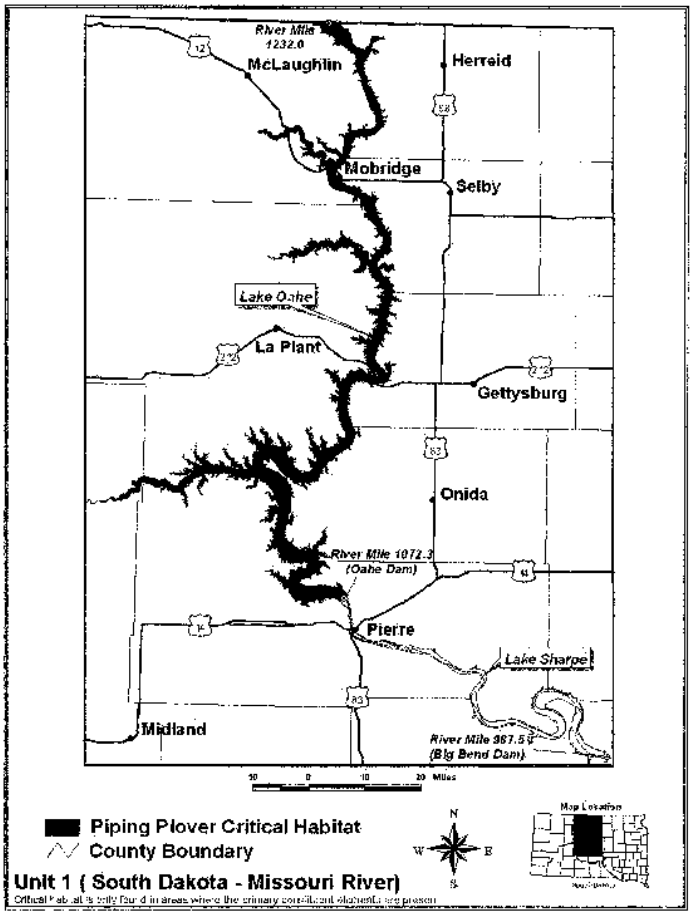
[3] Undefined—These are “lands” which were not surveyed during the original Government Land Office survey of South Dakota. They are now inundated and appear to fall in what was the described river channel at that time.

[4] See footnote 3.

[5] See footnote 3.

[6] See footnotes 1 and 3.

[7] See footnote 3.



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Unit SD–2: Missouri River.

Approximately 127.8 mi (204.4 km) from RM 880.0, at Fort Randall Dam in Bon Homme (right bank) and Charles Mix Counties (left bank), South Dakota, downstream to RM 752.2 near Ponca in Dixon County, Nebraska (right bank), and Union County, South Dakota (left bank). One mainstem Missouri River reservoir, Lewis and Clark Lake, and two riverine reaches (Fort Randall and Gavins Point) are included in this unit. This unit consists of the following TRS:

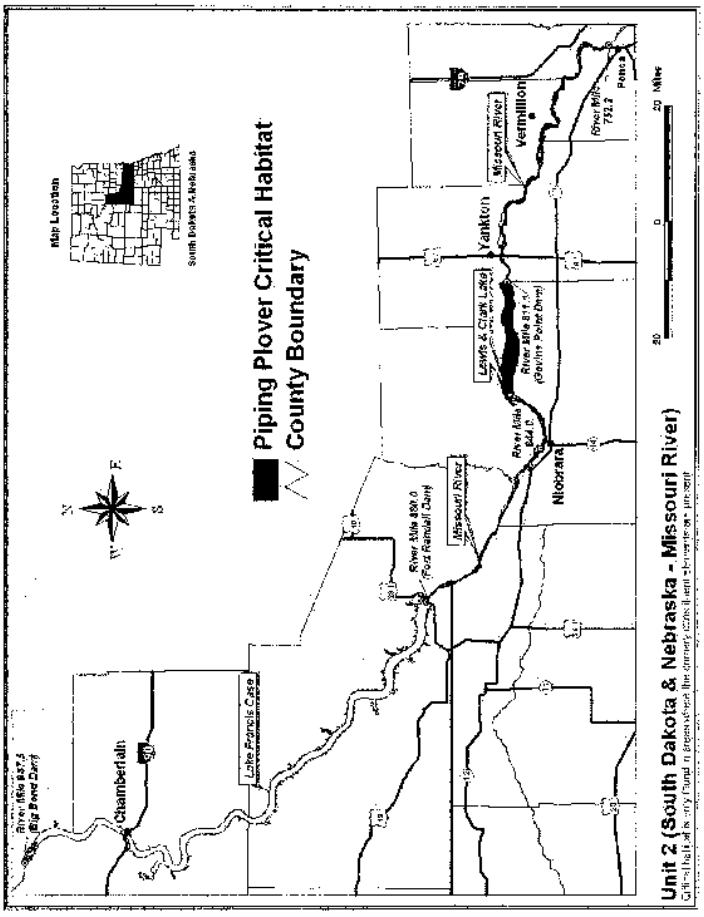
T. 90 N., R. 49 W., Sec. 6, T. 90 N., R. 50 W., Sec. 1, T. 90 N., R. 50 W., Sec. 11–14, T. 90 N., R. 50 W., Sec. 23–25, T. 91 N., R. 49 W., Sec. 31, T. 91 N., R. 50 W., Sec. 7, T. 91 N., R. 50 W., Sec. 18–19, T. 91 N., R. 50 W., Sec. 25–26, T. 91 N., R. 50 W., Sec. 28–30, T. 91 N., R. 50 W., Sec. 35–36, T. 91 N., R. 50 W., Sec. [8] , T. 91 N., R. 51 W., Sec. 3–6, T. 91 N., R. 51 W., Sec. 10–13, T. 91 N., R. 52 W., Sec. 1–3, T. 91 N., R. 52 W., Sec. 10–12, T. 92 N., R. 51 W., Sec. 31–32, T. 92 N., R. 52 W., Sec. 19–21, T. 92 N., R. 52 W., Sec. 26–30, T. 92 N., R. 52 W., Sec. 34–36, T. 92 N., R. 53 W., Sec. 7–8, T. 92 N., R. 53 W., Sec. 17–18, T. 92 N., R. 53 W., Sec. 20–24, T. 92 N., R. 54 W., Sec. 3, T. 92 N., R. 54 W., Sec. 10–12, T. 92 N., R. 60 W., Sec. 1–2, T. 92 N., R. 60 W., Sec. 10–11, T. 92 N., R. 60 W., Sec. 15–17, T. 92 N., R. 60 W., Sec. 19–21, T. 92 N., R. 61 W., Sec. 6–8, T. 92 N., R. 61 W., Sec. 15–17, T. 92 N., R. 61 W., Sec. 21–24, T. 92 N., R. 62 W., Sec. 1–2, T. 93 N., R. 54 W., Sec. 18–21, T. 93 N., R. 54 W., Sec. 27–28, T. 93 N., R. 54 W.,

Sec. 34, T. 93 N., R. 55 W., Sec. 13–14, T. 93 N., R. 55 W., Sec. 17–19, T. 93 N., R. 55 W., Sec. 23–24, T. 93 N., R. 56 W., Sec. 13–14, T. 93 N., R. 56 W., Sec. 17–21, T. 93 N., R. 56 W., Sec. 23–24, T. 93 N., R. 56 W., Sec. 26–28, T. 93 N., R. 57 W., Sec. 16–24, T. 93 N., R. 57 W., Sec. 28–29, T. 93 N., R. 58 W., Sec. 17–28, T. 93 N., R. 58 W., Sec. 30, T. 93 N., R. 58 W., Sec. 34–35, T. 93 N., R. 59 W., Sec. 10–11, T. 93 N., R. 59 W., Sec. 13–19, T. 93 N., R. 59 W., Sec. 21–27, T. 93 N., R. 60 W., Sec. 24–26, T. 93 N., R. 60 W., Sec. 35–36, T. 93 N., R. 62 W., Sec. 19–20, T. 93 N., R. 62 W., Sec. 26–30, T. 93 N., R. 62 W., Sec. 35–36, T. 93 N., R. 63 W., Sec. 6–10, T. 93 N., R. 63 W., Sec. 15, T. 93 N., R. 64 W., Sec. 1, T. 94 N., R. 64 W., Sec. 19–20, T. 94 N., R. 64 W., Sec. 27–30, T. 94 N., R. 64 W., Sec. 34–36, T. 94 N., R. 65 W., Sec. 2, T. 94 N., R. 65 W., Sec. 11–13, T. 94 N., R. 65 W., Sec. 24, T. 95 N., R. 65 W., Sec. 15–17, T. 95 N., R. 65 W., Sec. 8–9, T. 95 N., R. 65 W., Sec. 21–23, T. 95 N., R. 65 W., Sec. 26–27, T. 95 N., R. 65 W., Sec. 34–35.

[8] Undefined—These are “lands” which were not surveyed during the original Government Land Office survey of South Dakota. They are now inundated and appear to fall in what was the described river channel at that time.

Note:

Map follows:



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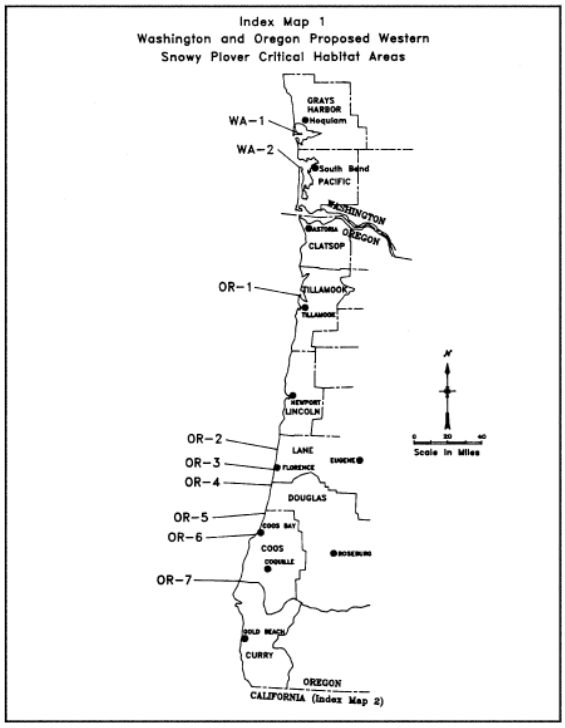
Western Snowy Plover (Charadrius alexandrinus nivosus)—Pacific coast population

1. The primary constituent elements are those habitat components that are essential for the primary biological needs of foraging, nesting, rearing of young, roosting, and dispersal, or the capacity to develop those habitat components. The primary constituent elements are found in areas that support or have the potential to support intertidal beaches (between mean low water and mean high tide), associated dune systems, and river estuaries. Important components of the beach/dune/estuarine ecosystem include surf-cast kelp, sparsely vegetated foredunes, interdunal flats, spits, washover areas, blowouts, intertidal flats, salt flats, flat rocky outcrops, and gravel bars. Several of these components (sparse vegetation, salt flats) are mimicked in artificial habitat types used less commonly by snowy plovers (*i.e.,* dredge spoil sites and salt ponds and adjoining levees).



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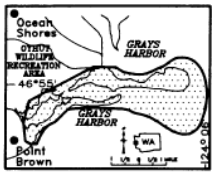
Washington. Areas of land and water as follows:

WA–1. Damon Point, Grays Harbor County (Index Map 1)

Beginning at 46°55'55" N, 124°09'07" W, thence northwesterly following the property line of the Oyhut Wildlife Recreation Area to 46°55'58" N, 124°09'14" W, thence northwesterly to 46°56'12" N, 124°09'16" W, thence northeasterly to 46°56'27" N, 124°09'11" W, thence northeasterly to 46°56'52" N, 124°08'02" W, thence east to MLW, thence southeasterly, southerly, and southwesterly following MLW around Damon Point to a point directly east of the point of beginning, thence west to the point of beginning. (Point Brown and Westport USGS 7.5" Quads 1983).



WA–1 DAMON POINT

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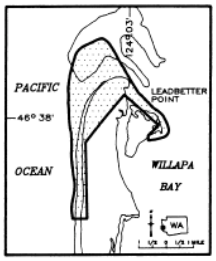
WA–2. Leadbetter Point, Pacific County (Index Map 1)

Beginning at 46°36'22" N, 124°03'51" W, thence northeasterly to 46°37'38" N, 124°03'55" W, thence northeasterly to 46°38'30" N, 124°03'01" W, thence southeasterly to 46°37'58" N, 124°02'05" W, thence southwesterly to 46°37'48" N, 124°02'20" W, thence south to MLW, thence northeasterly around the north end of Leadbetter Point, thence southerly following MLW to a point directly west of the point of beginning, thence east to the point of beginning. Excludes all our property. (North Cove and Oysterville USGS 7.5" Quads 1984).



WA–2 LEADBETTER POINT

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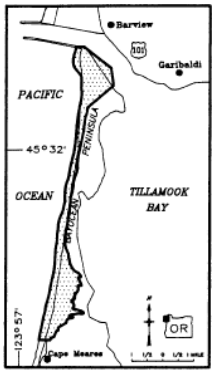
Oregon. Areas of land and water as follows:

OR–1. Bayocean Spit, Tillamook County (Index Map 1)

Beginning at 45°33'57" N, 123°56'50" W, thence north to MLW, thence southeasterly following MLW to 45° 33'42" N, 123°56'21" W, thence southerly to 45°33'28" N, 123°56'18" W, thence southwesterly to 45°33'12" N, 123°56'45" W, thence southerly following the easterly edge of the sand depicted on the topographic map as a dashed line to 45°32'28" N, 123°56'54" W, thence southerly to 45°32'23" N, 123°56'56" W, thence southerly following the easterly edge of the sand depicted on the topographic map as a dashed line to 45°

30'21" N, 123°57'21" W, thence west to MLW, thence northerly following MLW to the toe of the South Jetty, thence directly west to the point of beginning. (Garibaldi USGS 7.5" Quad 1985).



OR–1 BAYOCEAN SPIT

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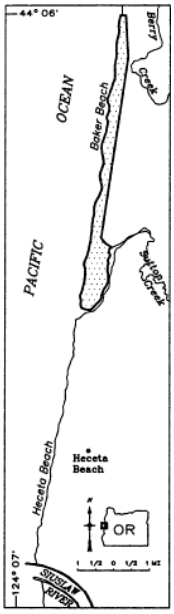
OR–2. Heceta Head to Sutton Creek, Lane County (Index Map 1)

Beginning at 44°06'15" N, 124°07'20" W, thence southerly to 44°05'51" N, 124°07'18" W, thence southerly to 44°05'15" N, 124°07'26" W, thence southerly to 44°04'10" N, 124°07'35" W, thence southeasterly to the high water line of the north side of Sutton Creek, thence southwesterly following the high water line of the north side of Sutton Creek to its mouth, thence west to MLW, thence northerly following MLW to a point directly west of the point of beginning, thence east to the point of beginning. (Mercer Lake USGS 7.5" Quad 1984).

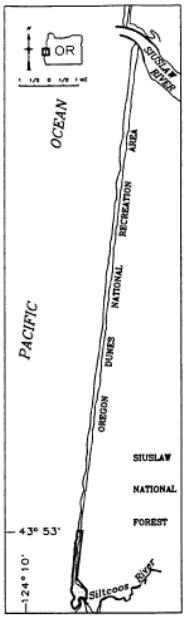


OR–2 HECETA HEAD
TO SUTTON CREEK

View or download PDF

OR–3. Siltcoos River North, Lane County (Index Map 1)

Beginning at 43°53'40" N, 124°08'50" W, thence southerly to 43°52'55" N, 124°09'10" W, thence southeasterly to 43°52'45" N, 124°08'58" W, thence south to 43°52'38" N, 124°08'58" W, thence west to MLW, thence southerly and westerly following MLW around the southern end of the spit, thence northerly following MLW to a point directly west of the point of beginning, thence east to the point of beginning. (Goose Pasture, and Tahkenitch Creek USGS 7.5" Quads 1984).

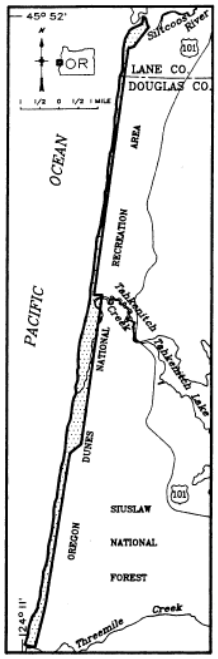


OR–3 SILTCOOS RIVER NORTH

View or download PDF

OR–4. Siltcoos River to Threemile Creek, Lane and Douglas County (Index Map 1)

Beginning at 43°521'29" N, 124°08'55" W, thence southwesterly to 43°52'13" N, 124°09'11" W, thence westerly to 43°52'12" N, 124°09'18" W, thence southerly to 43°49'02" N, 124°09'52" W, thence east to 43° 49'02" N, 124°09'43" W, thence southerly to 43°47'08" N, 124°10'04" W, thence southwesterly to 43°47'00" N, 124°10'16" W, thence southerly to 43°45'00" N, 124°10'42" W, thence west to MLW, thence northerly following MLW to a point directly north of the point of beginning, thence south to the point of beginning. (Goose Pasture and Tahkenitch Creek USGS 7.5" Quad 1984).

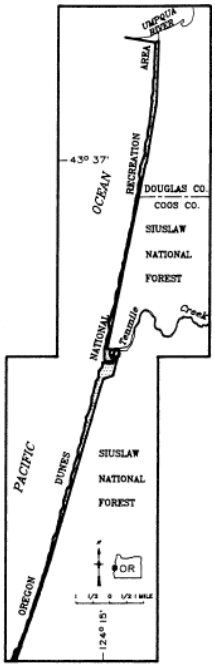


OR–4 SILTCOOS RIVER TO THREEMILE CREEK

View or download PDF

OR–5. Umpqua River to Horsfall Beach, Douglas and Coos County (Index Map 1)

Beginning at 43°39'51" N, 124°12'25" W, thence southerly to 43°39'36" N, 124°12'25" W, thence southerly to 43°38'40" N, 124°12'29" W, thence southerly following 25 ft. east of road to 43°37'30" N, 124°12'46" W, thence southwesterly to 43°34'39" N, 124°13'34" W, thence southwesterly to 43°34'00" N, 124°13'46" W, thence easterly to 43°33'58" N, 124°13'26" W, thence southwesterly to 43°33'29" N, 124°13'37" W, thence westerly to 43°33'26" N, 124°13'53" W, thence southwesterly following 20 ft. contour to 43°30'00" N, 124° 15'16" W, thence southwesterly to 43°27'08" N, 124°16'36" W, thence west to MLW, thence northeasterly following MLW to the southern toe of South Jetty, thence northeast to the point of beginning. (Winchester Bay and Lakeside USGS 7.5" Quads 1985, and Empire USGS 7.5" Quad 1970).



OR–5 UMPQUA RIVER
TO HORSFALL BEACH

View or download PDF

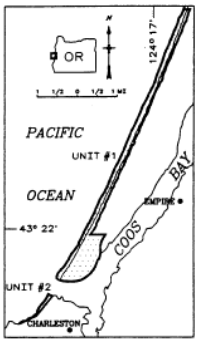
OR–6. Horsfall Beach to Coos Bay, Coos County (Index Map 1)

Unit 1

Beginning at 43°27'08" N, 124°16'36" W, thence southwesterly following 20 ft. contour to 43°25'34" N, 124° 17'27" W, thence southwesterly following 20 ft. contour to 43°22'23" N, 124°19'25" W, thence east to MLW, thence southerly and westerly following MLW around the southern tip of the north spit, thence northeasterly following MLW to a point directly west of the point of beginning, thence east to the point of beginning. (Empire and Charleston USGS 7.5" Quads 1970).

Unit 2

Beginning at 43°21'05" N, 124°20'26" W, thence southwesterly to 43°20'39" N, 124°20'54" W, thence southwesterly to 43°21'21" N, 124°21'21" W, thence north to MLW, thence northeasterly following MLW to the southern toe of the South Jetty, thence easterly following the toe of the South Jetty to the point of beginning. (Charleston USGS 7.5" Quad 1970).

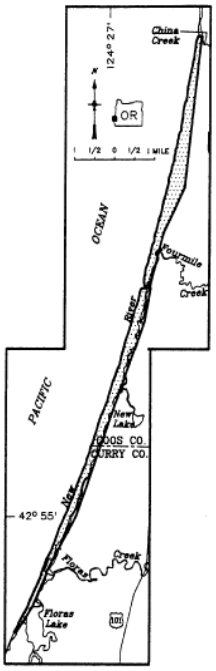


OR–6 HORSFALL BEACH
TO COOS BAY UNIT #1,#2

View or download PDF

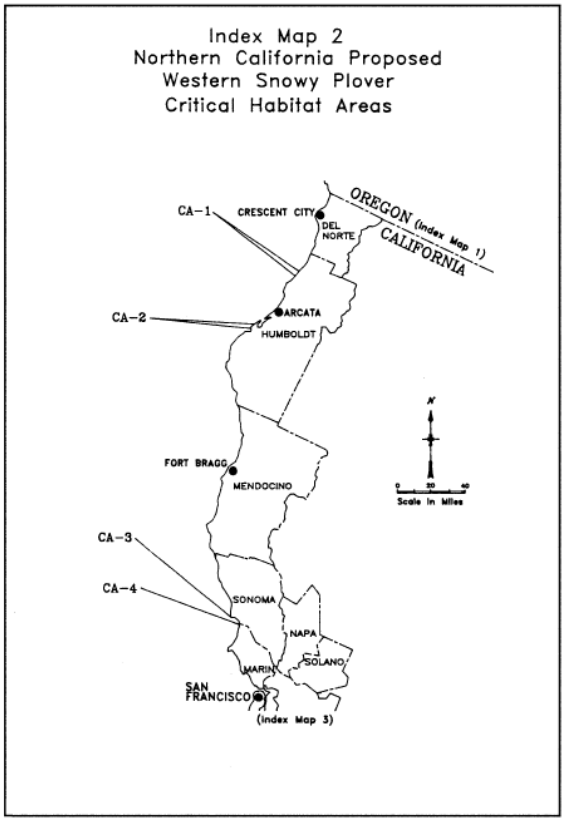
OR–7. Bandon Park to Floras Lake, Coos and Curry Counties (Index Map 1)

Beginning at 43°04'14" N, 124°26'01" W, thence southerly to 43°03'22" N, 124°26'10" W, thence southerly to 43°02'42" N, 124°26'16" W, thence southerly to 43°01'42" N, 124°26'26" W, thence southwesterly to 43° 00'56" N, 124°26'58" W, thence southwesterly to 43°00'00" N, 124°27'17" W, thence southerly to 42°59'27" N, 124°27'25" W, thence southwesterly to 42°57'16" N, 124°28'24" W, thence southwesterly to 42°55'52" N, 124°29'09" W, thence southwesterly to 42°54'48" N, 124°30'00" W, thence southwesterly to 42°54'10" N, 124°30'22" W, thence southwesterly to 42°53'42" N, 124°30'49" W, thence west to MLW, thence northeasterly following MLW to a point directly west of the point of beginning, thence east to the point of beginning. (Floras Lake and Langlois USGS 7.5" Quads 1986, and Bandon USGS 7.5" Quad 1970).



OR–7 BANDON
TO FLORAS LAKE

View or download PDF



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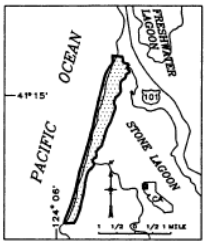
California. Areas of land and water as follows:

CA–1. Humboldt Coast Lagoon Beaches, Humboldt County (Index Map 2)

Unit 1—Stone Lagoon

Beginning at 41°15'33" N, 124°05'54" W, thence south and east following the west side of the access road to Dry Lagoon State Park to 41°15'29" N, 124°05'49" W, thence southwesterly following the high water line of Stone Lagoon to 41°14'42" N, 124°06'08" W, thence southwesterly to 41°14'40" N, 124°06'10" W, thence southwesterly following the 40-foot contour line to 41°14'14" N, 124°06'21" W, thence west to MLW, thence northeasterly following MLW to a point directly west of the point of beginning, thence east to the point of beginning. (Orick and Rodgers Peak USGS 7.5" Quads 1966).



CA–1 HUMBOLDT COAST
LAGOON BEACHES
UNIT 1– STONE LAGOON

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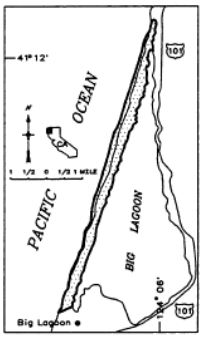
Unit 2—Big Lagoon

Beginning at 41°13'00" N, 124°06'39" W, thence southerly following the 40-foot contour line to 41°12'47" N, 124°06'40" W, thence southerly following the Big Lagoon State Park property line to 41°12'39" N, 124° 06'40" W, thence northwesterly and southwesterly following the high water line of Big Lagoon to 41°09'54" N, 124°07'49" W, thence southwesterly following the Big Lagoon State Park property line to 41°09'49" N, 124°08'00" W, thence west to MLW, thence northeasterly following MLW to a point directly west of the point of beginning, thence east to the point of beginning. (Rodgers Peak USGS 7.5" Quad 1966 and Trinidad USGS 7.5" Quad 1978).



CA–1 HUMBOLDT COAST
LAGOON BEACHES
UNIT 2– BIG LAGOON

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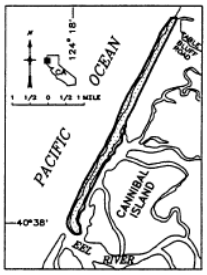
CA–2. Eel River Beaches, Humboldt County (Index Map 2)

Unit 1—Eel River North

Beginning at 40°41'51" N, 124°16'27" W, thence southwesterly to 40°40'11" N, 124°17'30" W, thence south to MLW, thence southerly following MLW around the south end of the spit, thence north following MLW to a point directly west of the point of beginning, thence east to the point of beginning. (Cannibal Island USGS 7.5" Quad 1972).



CA–2 EEL RIVER BEACHES
UNIT 1– EEL RIVER NORTH

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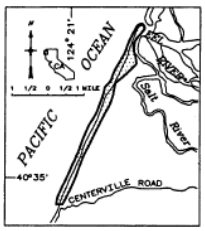
Unit 2—Eel River South

Beginning at 40°34'29" N, 124°21'01" W, thence west to MLW, thence northeasterly following MLW to a point directly west of 40°38'28" N, 124°18'42" W, thence east to said point, thence east to MHW of the left bank of the Eel and Salt Rivers, thence southwesterly following MHW of the left bank of the Salt River to 40°37'54" N, 124°18'52" W, thence southerly to 40°37'38" N, 124°18'53" W, thence southwesterly to 40° 37'14" N, 124°19'25" W, thence southwesterly to 40°36'44" N, 124°19'36" W, thence southwesterly to 40° 34'29" N, 124°20'56" W, thence westerly to the point of beginning. (Cannibal Island and Ferndale USGS 7.5" Quads 1972).



CA–2 EEL RIVER BEACHES
UNIT 2– EEL RIVER SOUTH

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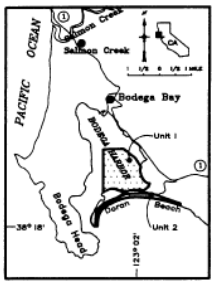
CA–3. Bodega Bay, Sonoma County (Index Map 2)

Unit 1—Bodega Harbor

Beginning at 38°18'51" N, 123°03'02" W, at MHW on Doran Spit, thence north to 38°19'30" N, 123°03'02" W, thence east to 38°19'30" N, 123°02'38" W, thence southeasterly to 38°19'22" N, 123°02'26" W, thence southerly to 38°19'13" N, 123°02'20" W, on the MHW line of Bodega Harbor, thence southerly and westerly following MHW to the point of beginning. (Bodega Head USGS 7.5" Quad 1972).

Unit 2—Doran Beach

Beginning at 38°18'22" N, 123°03'09" W, at the west end of the North Jetty, thence east to MLW, thence northerly and easterly following MLW to a point directly south of 38°18'44" N, 123°01'36" W, thence north to said point, thence northwesterly to 38°18'52" N, 123°02'07" W, thence westerly to 38°18'51" N, 123° 02'34" W, thence southwesterly to 38°18'42" N, 123°03'01" W, thence southwesterly to 38°18'34" N, 123° 03'08" W, thence southerly to the point of beginning. (Bodega Head USGS 7.5" Quad 1972).

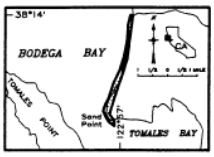


CA–3 BODEGA BAY
UNITS 1– 2

View or download PDF

CA–4. Dillon Beach, Marin County (Index Map 2)

Beginning at 38°14'57" N, 122°57'58" W, thence southerly to 38°14'31" N, 122°58'01" W, thence southwesterly to 38°13'57" N, 122°58'15" W, thence southeasterly to 38°13'21" N, 122°58'12" W, thence south to MLW, thence northwesterly and northerly to a point directly west of the point of beginning, thence east to the point of beginning. (Tomales USGS 7.5" Quad 1971)



CA–4 DILLON BEACH

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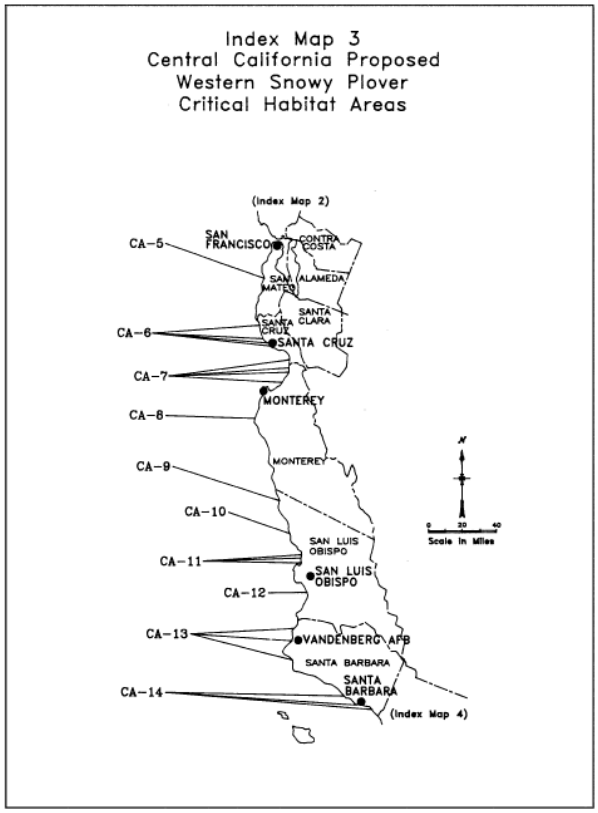

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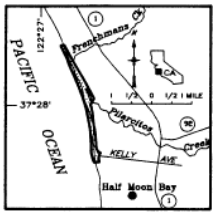
CA–5. Half Moon Bay Beaches, San Mateo County (Index Map 3)

Beginning at 37°28'57" N, 122°27'06" W, thence southeasterly to 37°28'26" N, 122°26'45" W, thence southwesterly to 37°28'24" N, 122°26'47" W, thence southerly following the 20-foot contour line to 37° 27'49" N, 122°26'40" W, thence west to MLW, thence northwesterly following MLW to a point directly west of the point of beginning, thence east to the point of beginning. (Half Moon Bay USGS 7.5" Quad 1973).



CA–5 HALF MOON BAY BEACHES

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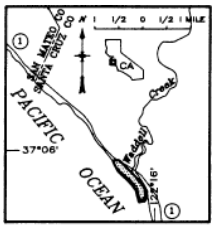
CA–6. Santa Cruz Coast Beaches, Santa Cruz County (Index Map 3)

Unit 1—Waddell Creek Beach

Beginning at 37°05'35" N, 122°16'32" W, thence west to MLW, thence northwesterly following MLW to a point west of 37°05'52" N, 122°16'32" W, thence east to said point, thence southeasterly to MHW line of Waddell Creek 37°05'41" N, 122°16'34" W, thence south to point of beginning. (Ano Nuevo USGS 7.5" Quad 1968).



CA–6 SANTA CRUZ COAST BEACHES
UNIT 1– WADDELL CREEK BEACH

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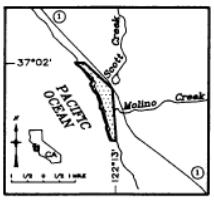
Unit 2—Scott Creek Beach

Beginning at 37°02'33" N, 122°13'53" W, located at northwest end of beach, thence southeasterly to 37° 02'22" N, 122°13'36" W, located west of Highway 1 and excluding the existing Highway 1 ROW, thence south to 37°01'58" N, 122°13'34" W, located at south end of beach on 60 foot contour line, thence west to MLW, thence northwesterly following MLW to a point directly west of point of beginning, thence east to point of beginning. (Davenport USGS 7.5" Quad 1968)



CA–6 SANTA CRUZ COAST BEACHES
UNIT 2– SCOTT CREEK BEACH

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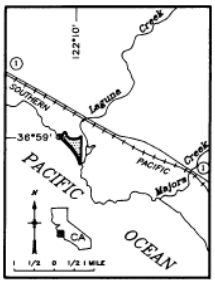
Unit 3—Laguna Creek Beach

Beginning at 36°59'04" N, 122°09'26" W, located at northwest end of beach on 20 foot contour line, thence east following 20 foot contour line to 36°59'03" N, 122°09'14" W, located at Laguna Creek at a point 800 feet south of Highway 1, thence south to MLW, thence northwesterly following MLW to a point directly south of point of beginning, thence north to point of beginning. (Santa Cruz USGS 7.5" Quad 1981).



CA–6 SANTA CRUZ COAST BEACHES
UNIT 3– LAGUNA CREEK BEACH

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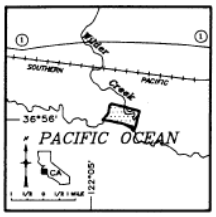
Unit 4—Wilder Creek Beach

Beginning at 36°57'17" N, 122°04'43" W, located at northwest end of upper beach on 40 foot contour line, thence southwesterly to 36°57'16" N, 122°04'29" W, located at northeast end of upper beach east of 40 foot contour line, thence south to MLW, thence northwesterly following MLW to 40 foot contour line at west end of beach, thence north following 40 foot contour line to point of beginning. (Santa Cruz USGS 7.5" Quad 1981)



CA–6 SANTA CRUZ COAST BEACHES
UNIT 4– WILDER CREEK BEACH

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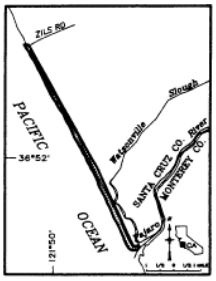
CA–7. Monterey Bay Beaches, Santa Cruz and Monterey Counties (Index Map 3)

Unit 1—Sunset Beach

Beginning at 36°54'38" N, 121°50'50" W, located west of Zils Road, thence southeasterly to 36°51'25" N, 121°48'13" W, thence east along north bank of Pajaro River to 36°51'27" N, 121°48'30" W, located south of mouth of Watson Slough, thence south to MLW, thence southerly following MLW around south end of beach, thence northwesterly following MLW to a point west of point of beginning, thence east to point of beginning. (Watsonville West and Moss Landing USGS 7.5" Quad 1980).



CA–7 MONTEREY BAY BEACHES
UNIT 1– SUNSET BEACH

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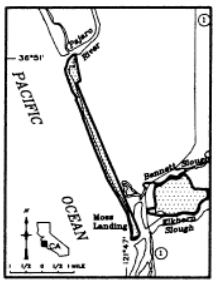
Unit 2—Mudowski Beach

Beginning at 36°49'25" N, 121°48'21" W, thence southerly to 36°50'58" N, 121°48'15" W, located north of the 10 foot contour line and west of Jensen Road, thence southwesterly to 36°51'11" N, 121°48'20" W, thence southeasterly to 36°50'43" N, 121°47'15" W, located east of seawall, thence south to MLW, thence southwesterly following MLW around south end of beach, thence northwesterly following MLW to north end of beach, thence northeasterly following MLW around north end of beach to a point north of point of beginning, thence south to point of beginning. (Moss Landing USGS 7.5" Quad 1980).

Unit 3—Elkhorn Slough Mud Flat/Salt Pond

Beginning at north bank of Elkhorn Slough 36°48'49" N, 121°46'12" W, thence west following south perimeter of mud flat and salt pond to 36°48'50" N, 121°47'02" W, which excludes the existing Highway 1 ROW, thence north following west perimeter of the salt pond, thence east following northern perimeter of salt pond to west perimeter of mud flat, thence north following west perimeter of mud flat to 36°49'14" N, 121°46'55" W, located on south shore of Bennett Slough, thence northeasterly following south bank of Bennett Slough to 36°49'4" N, 121°46'22" W, located at the northern most point of mud flat, thence southeasterly following the east perimeter of the mud flat to 36°49'12" N, 121°46'12" W, thence easterly following the perimeter of the mud flat to 36°49'59" N, 121°45'59" W, thence south following east perimeter of mud flat to 36°49'04" N, 121°45'58" W, thence southwesterly along northern shore of Elkhorn Slough to point of beginning. (Moss Landing USGS 7.5" Quad 1980).



CA–7 MONTEREY BAY BEACHES
UNIT 2– MUDOWSKI BEACH
UNIT 3– ELKHORN SLOUGH
MUDFLAT/SALTPOND

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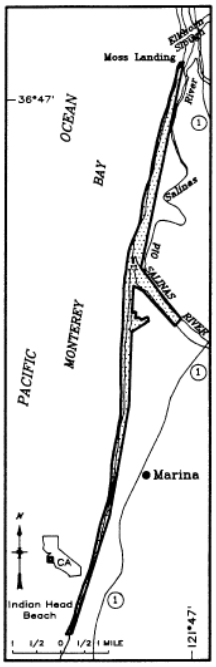
Unit 4—Salinas River Beach

Beginning at 36°48'01" N, 121°47'18" W, located south of boat launch, thence southerly to 36°46'31" N, 121°47'40" W, thence southerly to 36°45'00" N, 121°48'04" W, located on north bank of Salinas River, thence southeasterly following north bank of Salinas River to 36°44'16" N, 121°47'20" W, thence

southwesterly across Salinas River to 36°44'10" N, 121°47'28" W, located on south bank, thence northwesterly following south bank of Salinas River to 36°44'41" N, 121°48'02" W, thence westerly to 36° 44'49" N, 121°48'12" W, thence south to 36°44'54" N, 121°48'12" W, located at northern most point of a large pond, thence southeasterly following north shore of pond to 36°44'44" N, 121°47'53" W, thence southwesterly to 36°44'34" N, 121°48'13" W, thence southerly to 36°42'59" N, 121°48'17" W, thence southerly to 36°41'45" N, 121°48'49" W, thence southerly to 36°39'45" N, 121°49'17" W, thence west to MLW, thence northerly following MLW to a point west of point of beginning, thence east to point of beginning. Excludes all our property. (Moss Landing USGS 7.5" Quad 1980 and Marina USGS 7.5" Quad 1983)



CA–7 MONTEREY BAY BEACHES
UNIT 4– SALINAS RIVER BEACH

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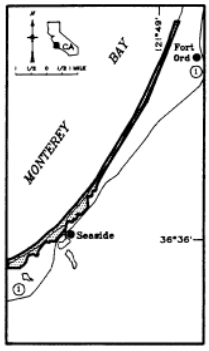
Unit 5—Fort Ord/Seaside Beaches

Beginning at 36°39'44" N, 121°49'17" W, located west of beach parking lot, thence southerly following upper beach where it meets toe of bluffs to 36°38'33" N, 121°49'54" W, thence southerly following upper beach where it meets toe of bluffs to 36°36'58" N, 121°51'00" W, thence continue southwesterly following upper portion of beach where it meets toe of bluffs and sand dunes to 36°36'06" N, 121°52'15" W, thence west to 36°36'06" N, 121°52'30" W, thence north to MLW, thence northeasterly following MLW to a point west of point of beginning, thence east to point of beginning. (Marina USGS 7.5" Quad 1983 and Seaside USGS 7.5" Quad 1968).

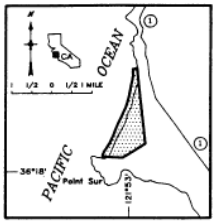


CA–7 MONTEREY BAY BEACHES
UNIT 5– FORT ORD/SEASIDE BEACHES

View or download PDF

CA–8. Point Sur Beach, Monterey County (Index Map 3)

Beginning at 36°19'11" N, 121°53'39" W, located at north end of beach, thence south to 36°18'31" N, 121° 53'32" W, located north of Lighthouse Road, thence southwesterly following a line north of Lighthouse Road to 36°18'37" N, 121°53'46" W, thence west to MLW, thence northeasterly following MLW to a point west of point of beginning, thence east to point of beginning. (Point Sur USGS 7.5" Quad 1983).

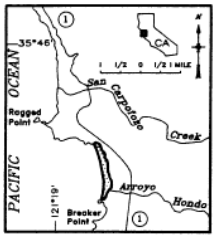


CA–8 POINT SUR BEACH

View or download PDF

CA–9. Arroyo Hondo Creek Beach, San Luis Obispo County (Index Map 3)

Beginning at 35°45'23" N, 121°19'02" W, thence southerly following the 20-foot contour line to 35°45'00" N, 121°18'52" W, thence southeasterly to 35°44'54" N, 121°18'55" W, thence west to MLW, thence northerly following MLW to a point directly west of the point of beginning, thence east to the point of beginning. (Burro Mountain USGS 7.5" Quad 1972 and Piedras Blancas USGS 7.5" Quad 1959).



CA–9 ARROYO HONDO CREEK BEACH

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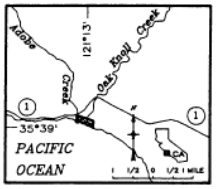
CA–10. Arroyo Laguna Creek Beach, San Luis Obispo County (Index Map 3)

Beginning at 35°39'08" N, 121°13'15" W, located south of Highway 1 and excluding the existing Highway 1 ROW, thence southeasterly to 35°39'05" N, 121°13'17" W, thence south to MLW, thence westerly following MLW to a point south of point of beginning, thence north to point of beginning. (San Simeon USGS 7.5" Quad 1958)



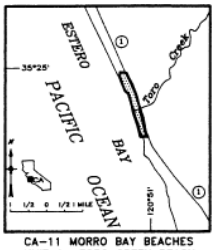
CA–10 ARROYO LAGUNA CREEK BEACH

View or download PDF

CA–11. Morro Bay Beaches, San Luis Obispo County (Index Map 3)

Unit 1—Toro Creek

Beginning at 35°24'57" N, 120°52'27" W, located west of Highway 1 and excluding the existing Highway 1 ROW, thence southerly along a line west of Highway 1, excluding the existing Highway 1 ROW, to 35° 24'30" N, 120°52'14" W, thence west to MLW, thence northwesterly following MLW to a point west of point of beginning, thence east to point of beginning. (Morro Bay North USGS 7.5" Quad 1965)

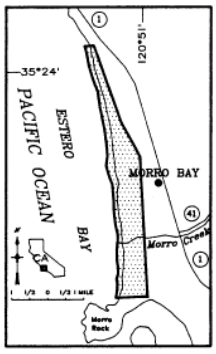


CA–11 MORRO BAY BEACHES
UNIT 1– TORO CREEK BEACH

View or download PDF

Unit 2—Atascadero Beach

Beginning at 35°24'13" N, 120°52'02" W, located west of Beachcomber Drive, thence southeasterly along upper beach to 35°23'38" N, 120°51'48" W, located west of Sandalwood Avenue, thence south to 35°23'24" N, 120°51'39" W, thence south to 35°22'22" N, 120°51'31" W, located at the southwest end of powerplant, thence west to MLW, thence northerly following MLW to a point west of point of beginning, thence east to point of beginning. (Morro Bay North and Morro Bay South USGS 7.5" Quads 1965)



CA–11 MORRO BAY BEACHES
UNIT 2– ATASCADERO BEACH

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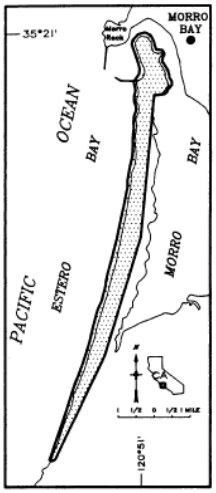
Unit 3—Morro Bay Beach

Beginning at 35°17'28" N, 120°52'46" W, located at south end of beach, thence west to MLW, thence northeasterly following MLW to breakwater, thence from breakwater following MLW clockwise around northern end of peninsula to a point east of 35°21'28" N, 120°51'28" W, thence west to said point, thence southwesterly to 35°19'54" N, 120°51'38" W, thence southwesterly to 35°18'38" N, 120°52'06" W, thence southwesterly to point of beginning. (Morro Bay South USGS 7.5" Quad 1978)

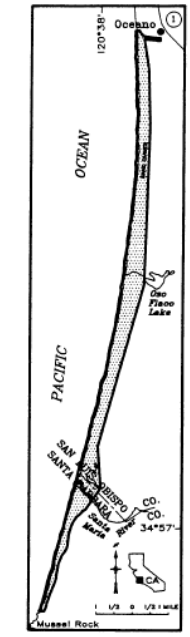


CA–11 MORRO BAY BEACHES
UNIT 3– MORRO BAY BEACH

View or download PDF

CA–12. Pismo Beach/Nipomo Dunes, San Luis Obispo and Santa Barbara Counties (Index Map 3)

Beginning at 34°53'02" N, 120°39'40" W, located northeast of Mussel Point, thence west to MLW, thence northerly following MLW to a point west of 35°06'06" N, 120°37'45" W, thence east to said point, thence southeasterly to 35°06'01" N, 120°37'40" W, located on north bank of Arroyo Grande Creek, thence easterly following north bank of Arroyo Grande Creek to 35°05'58" N, 120°37'19" W, thence southerly across Arroyo Grande Creek to 35°05'56" N, 120°37'18" W, thence westerly to 35°05'58" N, 120°37'38" W, thence southeasterly to 35°05'27" N, 120°37'32" W, thence southerly to 35°04'27" N, 120°37'30" W, thence southwesterly to 35°02'32" N, 120°37'35" W, thence south to 35°01'42" N, 120°37'35" W, thence southwesterly to 34°58'53" N, 120°39'02" W, thence southeasterly across Guadalupe oil field to 34°58'10" N, 120°38'27" W, located at east end of a pond north of Santa Maria River, thence southwesterly to a point on 40-foot contour line 34°57'45" N, 120°38'59"W, located south of the Santa Maria River, thence southwesterly along the 40-foot contour line to point of beginning. (Oceano USGS 7.5" Quad 1979 and Point Sal USGS 7.5" Quad 1974).



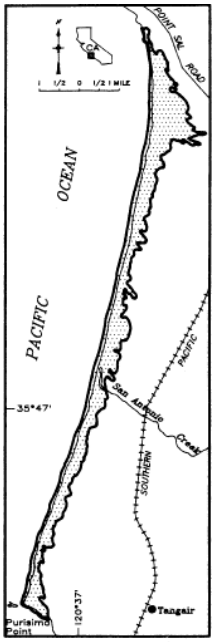
CA–12 PISMO BEACH/NIPOMO DUNES

View or download PDF

CA–13. Point Sal to Point Conception Beaches, Santa Barbara County (Index Map 3)

Unit 1—Vandenberg Beach

Beginning at 35°51'41" N, 120°36'36" W, located on 40-foot contour line, thence southerly along 40-foot contour line to 34°45'22" N, 120°37'50" W, located southeast of Purisma Point, thence south to MLW, thence northwesterly following MLW around Purisma Point, thence north following MLW to a point west of point of beginning, thence east to point of beginning. (Casmalia USGS 7.5" Quad 1982).



CA-13 POINT SAL TO POINT CONCEPTION
UNIT 1- VANDENBERG BEACH

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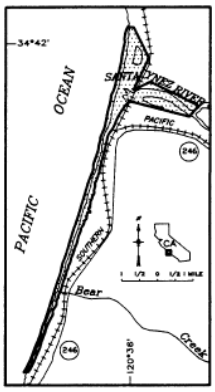
Unit 2—Santa Ynez River Mouth/Ocean Beach

Beginning at 34°42'16" N, 120°35'54" W, located west of beach access road, thence southeasterly to 34° 41'56" N, 120°35'45" W, located west of railroad tracks, thence southwesterly to 34°41'35" N, 120°35'55" W, located on north bank of Santa Ynez River, thence northeasterly to 34°41'41" N, 120°35'43" W, thence southeasterly along north bank of Santa Ynez River to 34°41'24" N, 120°35'05" W, located at end of Gravel Pit Road, thence southwesterly to 34°41'18" N, 120°35'13" W, located on south bank of Santa Ynez River, thence west across railroad tracks to 34°41'27" N, 120°35'58" W, located on 40-foot contour line, thence southwesterly along 40-foot contour line to 34°37'28" N, 120°37'16" W, located 400 feet west of railroad tracks, thence west to MLW, thence northeasterly following MLW to a point west of point of beginning, thence east to point of beginning. (Surf USGS 7.5" Quad 1974).

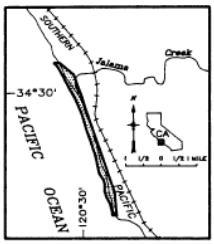


CA-13 POINT SAL TO POINT CONCEPTION
UNIT 2- SANTA YNEZ RIVER MOUTH/
OCEAN BEACH

View or download PDF

Unit 3—Jalama Beach

Beginning at 34°30'48" N, 120°30'12" W, thence southeasterly to 34°30'44" N, 120°30'04" W, located at northern end of Jalama Beach Lagoon, thence southeasterly to 34°30'23" N, 120°29'55" W, thence southeasterly to 34°29'53" N, 120°29'44" W, thence southeasterly to 34°29'43" N, 120°29'42" W, thence west to MLW, thence northwesterly following MLW to a point west of point of beginning, thence east to point of beginning. (Tranquillon Mountain USGS 7.5" Quad 1959, Lompoc Hills USGS 7.5" Quad 1971, and Point Conception USGS 7.5" Quad 1974).



CA-13 POINT SAL
TO POINT CONCEPTION
UNIT 3- JALAMA BEACH

View or download PDF

CA–14. Santa Barbara Coast Beaches, Santa Barbara County (Index Map 3)

Unit 1—Devereaux Beach

Beginning at 34°25'13" N, 119°53'31" W, located on 20 foot contour line, thence southeasterly following 20-foot contour line, thence northeasterly around Coal Oil Point to 34°24'33" N, 119°51'57" W, located on 20 foot contour line, thence south to MLW, thence westerly following MLW, southwesterly around Coal Oil Point, thence northwesterly to a point south of point of beginning, thence north to point of beginning. (Dos Pueblos Canyon and Goleta USGS 7.5" Quad 1988).

CA–14 SANTA BARBARA COAST BEACHES
UNIT 1– DEVEREAUX BEACH

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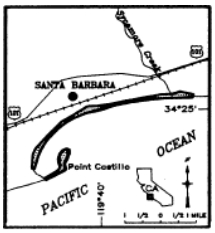
Unit 2—Point Castillo/ Santa Barbara Harbor Beach

Point Castillo

Beginning (breakwater and sandspit) at 34°24'17" N, 119°41'13" W, located at Beacon, thence south to MLW, thence southwesterly following MLW on outside of breakwater to Point Castillo, thence northeasterly following MLW inside of breakwater to southwest end of sandspit, thence circle sandspit clockwise following MLW to a point south of point of beginning, thence north to point of beginning. (Santa Barbara USGS 7.5" Quad 1967).

Santa Barbara Harbor Beach

Beginning at 34°24'16" N, 119°41'37" W, located at southwest end of beach, thence northeasterly following a line south of Cabrillo Blvd. to 34°24'09" N, 119°38'22" W, located on west side of Stearns Wharf, thence northeasterly to 34°24'54" N, 119°40'52" W, thence easterly following a line just south of Cabrillo Blvd. to 34°25'03" N, 119°39'50" W, thence southeasterly to 34°25'00" N, 119°38'01" W, thence south to MLW, thence southwesterly following MLW to a point east of point of beginning, thence west to point of beginning. (Santa Barbara USGS 7.5" Quad 1967).



CA–14 SANTA BARBARA COAST BEACH
UNIT 2– POINT CASTILLO/
SANTA BARBARA HARBOR BEACH

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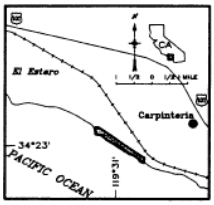
Unit 3—Carpinteria Beach

Beginning at 34°23'38" N, 119°31'26" W, located at end of Linden St. on northwest end of beach, thence southeasterly to 34°23'22" N, 119°31'02" W, located at southeast end of the beach, thence south to MLW, thence northwesterly following MLW to a point south of point of beginning, thence north to point of beginning. (Carpinteria USGS 7.5" Quad 1988).



CA–14 SANTA BARBARA COAST BEACHES
UNIT 3– CARPINTERIA BEACH

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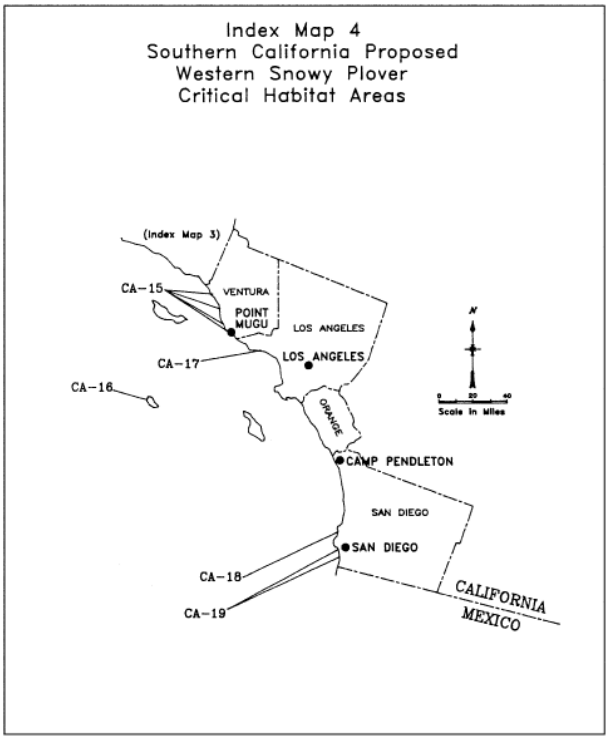

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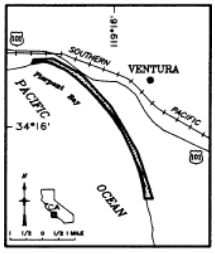
CA–15. Oxnard Lowlands, Ventura County (Index Map 4)

Unit 1—San Buena/Ventura Beach

Beginning 34°16'33" N, 119°17'38" W, which is located at northwest end of beach, thence east to 34°16'51" N, 119°17'24" W, thence southeasterly to 34°16'40" N, 119°17'03" W, thence southeasterly to 34°16'15" N, 119°16'33" W, thence southeasterly to 34°15'40" N, 119°16'16" W, thence southeasterly to 34°15'02" N, 119°15'52" W, thence west to MLW, thence northwesterly following MLW to a point south of point of beginning, thence north to point of beginning. (Ventura USGS 7.5" Quad 1967).



CA–15 OXNARD LOWLANDS
UNIT 1– SAN BUENA/VENTURA BEACH

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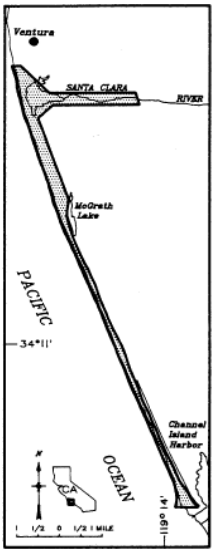
Unit 2—Mandalay Beach/Santa Clara River Mouth

Beginning at 34°14'28" N, 119°16'12" W, located at the north end of beach, thence southeasterly to 34° 14'10" N, 119°15'30" W, located on north bank of Santa Clara River, thence east to 34°14'09" N, 119°15'57" W, thence south to 34°14'09" N, 119°13'57" W, thence west following south bank of Santa Clara River to 34° 14'01" N, 119°15'30" W, thence southwesterly to 34°13'53" N, 119°15'40" W, located on 15-foot contour line, thence southeasterly to 34°12'58" N, 119°15'15" W, located on north end of McGrath Lake, thence southeasterly following 15-foot contour line to 34°09'30" N, 119°13'28" W, located on north side of boat ramp, thence west to MLW, thence northwesterly following MLW to a point west of point of beginning, thence east to point of beginning. (Oxnard USGS 7.5" Quad 1967).



CA–15 OXNARD LOWLANDS
UNIT 2– MANDALAY BEACH/
SANTA CLARA RIVER MOUTH

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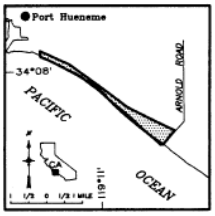
Unit 3—Ormond Beach

Beginning at 34°08'40" N, 119°11'58" W, located east of road to jetty, thence southeasterly to 34°08'49" N, 119°11'58" W, thence southeasterly to 34°07'48" N, 119°10'15" W, located at northwest end of wetlands, thence southeasterly to 34°07'22" N, 119°09'19" W, located on west side of Arnold Road, thence southwest along Arnold Road to 34°07'10" N, 119°09'32" W, located at end of Arnold Road, thence west to MLW, thence northwesterly following MLW to a point south of point of beginning, thence north to point of beginning. (Oxnard and Point Mugu USGS 7.5" Quads 1967).



CA–15 OXNARD LOWLANDS
UNIT 3– ORMOND BEACH

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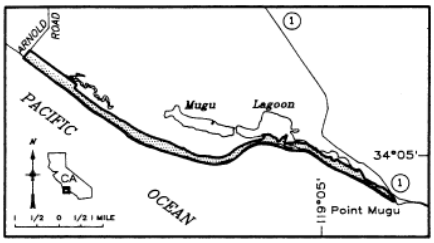
Unit 4—Mugu Lagoon Beach

Beginning at 34°07'15" N, 119°09'28" W, thence southeasterly to 34°06'45" N, 119°08'44" W, thence southwesterly to 34°06'42" N, 119°08'47" W, thence southeasterly to 34°06'31" N, 119°08'32" W, thence southeasterly to 34°06'20" N, 119°08'10" W, thence southeasterly following 10-foot contour line to 34° 06'03" N, 119°05'44" W, thence east following the HWL of Mugu Lagoon and crossing the mouth of said lagoon to 34°05'34" N, 119°04'13" W, thence southeasterly to 34°05'28" N, 119°04'08" W, located on 10 foot contour line, thence southeasterly following 10 foot contour line to 34°05'10" N, 119°03'38" W, located on west side of Point Mugu, thence west to MLW, thence northwesterly following MLW, but excluding the mouth of Mugu Lagoon, to a point south of point of beginning, thence north to point of beginning. (Point Mugu USGS 7.5" Quad 1967).



CA–15 OXNARD LOWLANDS
UNIT 4– MUGU LAGOON BEACH

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CA–16. San Nicolas Island Beaches, Ventura County (Index Map 4)

Unit SN–1

Beginning at 33°14'02" N, 119°26'12" W, thence east to MLW, thence southeasterly and southwesterly following MLW around east end of Island to a point east of 33°13'27" N, 119°26'11" W, thence west to said point, thence north following 25-foot contour line to point of beginning. (San Nicolas Island USGS 7.5" Quad 1956).

Unit SN–2

Beginning at 33°12'59" N, 119°28'33" W, located south of Island Road, thence easterly to 33°12'57" N, 119° 27'59" W, thence easterly to 33°13'02" N, 119°27'17" W, thence easterly to 33°13'10" N, 119°26'55" W, thence south to MLW, thence west following MLW to a point south of point of beginning, thence north to

point of beginning. (San Nicolas Island USGS 7.5" Quad 1956)

Unit SN–3.

Beginning at 33°13'12" N, 119°29'36" W, located south of Island Road, thence easterly to 33°13'11" N, 119° 29'09" W, thence easterly to 33°13'02" N, 119°28'39" W, thence south to MLW, thence west following MLW to a point south of point of beginning, thence north to point of beginning. (San Nicolas Island USGS 7.5" Quad 1956).

Unit SN–4

Beginning at 33°13'18" N, 119°30'05" W, thence southeasterly to 33°13'10" N, 119°29'48" W, thence west to MLW, thence northwesterly to a point south of point of beginning, thence north to point of beginning. (San Nicolas Island USGS 7.5" Quad 1956)

Unit SN–5

Beginning at 33°13'24" N, 119°30'25" W, thence southeasterly to 33°13'17" N, 119°30'09" W, thence south to MLW, thence northwesterly following MLW to a point south of point of beginning, thence north to point of beginning. (San Nicolas Island USGS 7.5" Quad 1956).

Unit SN–6

Beginning at 33°13'47" N, 119°31'12" W, thence southeasterly to 33°13'36" N, 119°30'55" W, thence south to MLW, thence northwesterly following MLW to a point south of point of beginning, thence north to point of beginning. (San Nicolas Island USGS 7.5" Quad 1956).

Unit SN–7

Beginning at 33°14'10" N, 119°32'49" W, thence southeasterly to 33°14'07" N, 119°32'41" W, thence southeasterly to 33°14'00" N, 119°32'38" W, thence south to MLW, thence northwesterly following MLW to a point south of point of beginning, thence north to point of beginning. (San Nicolas Island USGS 7.5" Quad 1956).

Unit SN–8

Beach within circle with a radius of 250 feet with center at 33°14'40" N, 119°33'29" W. (San Nicolas Island USGS 7.5" Quad 1956).

Unit SN–9

Beginning at 33°16'22" N, 119°33'11" W, thence southwesterly to 33°16'17" N, 119°33'22" W, thence southwesterly to 33°16'13" N, 119°33'43" W, thence north to MLW, thence northeasterly following MLW to a point north of point of beginning, thence south to point of beginning. (San Nicolas Island USGS 7.5" Quad 1956).

Unit SN–10

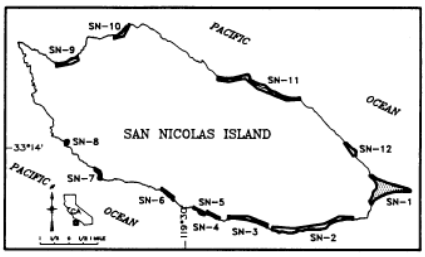
Beginning at 33°17'01" N, 119°31'58" W, thence southwesterly to 33°16'51" N, 119°32'08" W, thence southwesterly to 33°16'47" N, 119°32'21" W, thence north to MLW, thence northeasterly following MLW to a point west of point of beginning, thence east to point of beginning. (San Nicolas Island USGS 7.5" Quad 1956).

Unit SN–11

Beginning at 33°15'31" N, 119°27'52" W, thence westerly to 33°15'32" N, 119°28'11" W, thence westerly to 33°15'46" N, 119°28'55" W, thence northwesterly to 33°15'59" N, 119°29'10" W, thence southwesterly to 33°15'54" N, 119°29'34" W, thence northwesterly to 33°15'58" N, 119°29'52" W, thence north to MLW, thence easterly following MLW to a point north of point of beginning, thence south to point of beginning. (San Nicolas Island USGS 7.5" Quad 1956).

Unit SN–12

Beginning at 33°14'25" N, 119°26'35" W, thence northwesterly to 33°14'40" N, 119°26'49"W, thence east to MLW, thence southeasterly following MLW to a point east of point of beginning, thence west to point of beginning. (San Nicolas Island USGS 7.5" Quad 1956).



CA–16 SAN NICOLAS ISLAND BEACHES
UNITS 1–12

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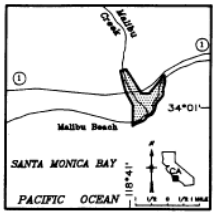
CA–17. Malibu Lagoon, Los Angeles County (Index Map 4)

Beginning at 34°01'58" N, 118°40'53" W, thence northwesterly crossing Highway 1, and excluding Highway 1 and the existing ROW north and south of Highway 1, to 34°02'04" N, 118°40'56" W, thence northwesterly to 34°02'13" N, 118°40'59" W, thence northeasterly to 34°02'14" N, 118°40'56" W, thence southeasterly to 34°02'03" N, 118°40'47" W, thence east to 34°02'03" N, 118°40'44" W, thence northeasterly to 34°02'12" N, 118°40'37" W, thence south to MLW, thence southerly and westerly following MLW to a point directly south of the point of beginning, thence north to the point of beginning. (Malibu Beach USGS 7.5"Quad 1981).



CA–17 MALIBU LAGOON

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CA–18. Mission Beach and Bay, San Diego County (Index Map 4)

Unit 1—Fiesta Island

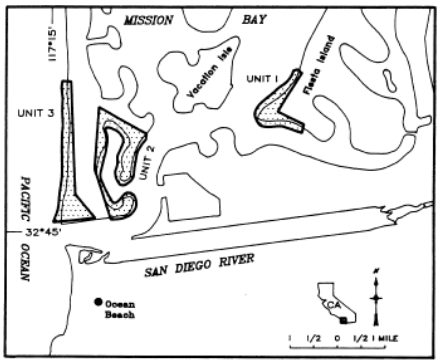
Beginning at 32°46'07" N, 117°14'34" W, thence south to MLW, thence southerly and northerly following MLW to a point directly south of 32°45'34" N, 117°14'50" W, thence north to said point, thence northwesterly to 32°45'52" N, 117°14'58" W, thence northeasterly to 32°46'16" N, 117°14'55" W, thence southeasterly to the point of beginning. (La Jolla USGS 7.5" Quad 1975).

Unit 2—Mariner's Basin

Beginning at 32°46'31" N, 117°13'25" W, thence southeasterly to 32°46'30" N, 117°13'23" W, thence southwesterly to 32°46'15" N, 117°13'34" W, thence southeasterly to 32°46'10" N, 117°13'23" W, thence south to MLW, thence westerly and northerly following MLW to a point directly west of the point of beginning, thence east to the point of beginning. (La Jolla USGS 7.5" Quad 1975).

Unit 3—Mission Beach

Beginning at 32°46'26" N, 117°15'08" W, thence southerly to 32°46'02" N, 117°15'06" W, thence southerly to 32°45'43" N, 117°15'05" W, thence southeasterly to 32°45'34" N, 117°14'57" W, which is on the north jetty to Mission Bay, thence westerly following the north side of the jetty to MLW, thence northerly following MLW to a point directly west of the point of beginning, thence east to the point of beginning. (La Jolla USGS 7.5" Quad 1975).



CA–18 MISSION BEACH AND BAY UNITS 1–3

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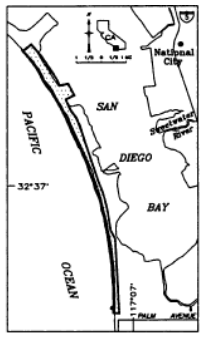
CA–19. South San Diego Coast Beaches, San Diego County (Index Map 4)

Unit 1—Silver Strand/Delta Beach

Beginning at 32°40'08" N, 117°09'54" W, thence northeasterly to the west side of the San Diego and Arizona Eastern Railroad tracks, thence southeasterly to 32°40'07" N, 117°09'42" W, thence east to MLW, thence southeasterly following MLW to a point directly north of 32°39'27" N, 117°09'10" W, thence south to said point, thence northeasterly to 32°39'30" N, 117°08'57" W, thence southeasterly to 32°39'16" N, 117° 08'48" W, thence southwesterly to 32°39'11" N, 117°09'00" W, thence southeasterly following the west side of the San Diego and Arizona Eastern Railroad tracks and the west side of Silver Strand Boulevard to 32° 36'43" N, 117°08'02" W, thence southeasterly to 32°36'32" N, 117°07'55" W, thence southerly to 32°35'09" N, 117°07'51" W, thence west to MLW, thence north following MLW to a point directly west of the point of beginning, thence east to the point of beginning. (Point Loma and Imperial Beach, Calif.—Baja Calif. Norte USGS 7.5" Quads 1975).



CA–19 SOUTH SAN DIEGO COAST BEACHES
UNIT 1– SILVER STRAND/DELTA BEACH

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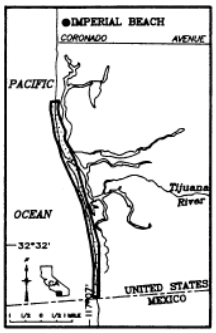
Unit 2—Tijuana River Beach

Beginning at 32°34'01" N, 117°07'53" W, thence southerly following the unimproved road to 32°33'44" N, 117°07'49" W, thence east to the HWL of Oneonta Slough, thence south following the HWL of said slough to 32°33'26" N, 117°07'40" W, which is at the mouth of Tijuana River, thence southeasterly crossing said river to 32°32'36" N, 117°07'24" W, thence south to 32°32'04" N, 117°07'24" W, thence west to MLW, thence northerly following MLW, but excluding the mouth of Tijuana River, to a point directly west of the point of beginning, thence east to the point of beginning. Excludes all our property. (Imperial Beach, Calif.—Baja Calif. Norte USGS 7.5" Quad 1975).



CA-19 SOUTH SAN DIEGO COAST BEACHES
UNIT 2- TIJUANA RIVER BEACH

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Cactus Ferruginous Pygmy-Owl (Glaucidium brasilianum cactorum)

1. Critical habitat units are depicted for Pima, Cochise, Pinal, and Maricopa counties, Arizona, on the maps below. The maps are for reference only; the areas in critical habitat are legally described below.

2. Within these areas, the primary constituent elements are those habitat components that are essential for the primary biological needs of foraging, nesting, rearing of young, roosting, sheltering, and dispersal or the capacity to develop those habitat components. The primary constituent elements are found in areas that support, or have the potential to support, riparian forests, riverbottom woodlands, xeroriparian forests, and semidesert grassland, and the Arizona upland subdivision of Sonoran desertscrub. Within these vegetation communities, specific plant associations that are essential for the primary biological needs of the cactus ferruginous pygmy-owl include, but are not limited to, the following vegetation: cottonwood, willow, ash, mesquite, palo verde, ironwood, hackberry, saguaro cactus, and/or organ pipe cactus.

3. Critical habitat does not include non-Federal lands covered by a legally operative incidental take permit for the cactus ferruginous pygmy-owl issued under section 10(a) of the Act, nor Indian Tribal grazing allotments.

Unit 1. Pima County, Arizona. From BLM map Sells, Ariz. 1979, Atascosa Mts., Ariz. 1979.

Gila and Salt Principal Meridian, Arizona: T. 17 S., R. 8 E., secs. 1 to 3, E 1/2 sec. 4, E 1/2 sec. 9, secs. 10 to 16, 21 to 36; T. 17 S., R. 9 E., that portion of sec. 1 lying west of St. Hwy 286, secs. 2 to 10, those portions of secs. 11, 12, and 14 lying west of St. Hwy 286, secs. 15 to 22, those portions of secs. 23 and 26 lying west of St. Hwy 286, secs. 27 to 34, that portion of sec. 35 lying west of St. Hwy 286; T. 18 S., R 7 E., sec. 1, those portions of secs. 2 and 11 lying east of Papago Indian Reservation Bdy, sec. 12, those portions of secs. 13, 14, 24, 25, and 36 lying east of Papago Indian Reservation Bdy; T. 18 S., R. 8 E., secs. 1 to 36; T. 18 S., R. 9 E., that portion of sec. 2 lying west of Hwy 286, secs. 3 to 10, those portions of secs. 11 and 14 lying west of St. Hwy 286, secs. 15 to 22, those portions of secs. 23, 26, 27 and 28 lying west and north of St. Hwy 286, secs. 29 to 31, those portions of secs. 32 and 33 lying west and north of St. Hwy 286; T. 19 S., R. 7 E., those portions of secs. 1, 12, 13, 14, and 23 lying east of Papago Indian Reservation Bdy, secs. 24 and 25, those portions of secs. 26 and 34 lying east of Papago Indian Reservation Bdy, secs. 35, 36; T. 19 S., R. 8 E., secs. 1 to 12, N 1/2 sec. 13, secs. 14 to 21, W 1/2 sec. 22, S 1/2 sec. 26, S 1/2 & NW 1/4 sec. 27, secs. 28 to 35; T. 19 S., R. 9 E., sec. 6; T. 20 S., R. 7 E., secs. 1, 2, those portions of secs. 3, 9, and 10 lying east of Papago Indian Reservation Bdy, secs. 11 to 15, those portions of secs. 16, 17, and 21 lying east of Papago Indian Reservation Bdy, secs. 22 to 27, those portions of secs. 28, 29, 32, and 33 lying east of Papago Indian Reservation Bdy, secs. 34 to 36; T. 20 S., R. 8 E., secs. 2 to 11, 14 to 23, 27 to 33; T. 21 S., R. 7 E., secs. 1 to 4, those portions of secs. 5 and 8 lying east of Papago Indian Reservation Bdy, secs. 9 to 16, those portions of secs. 17 and 20 lying east of Papago Indian Reservation Bdy, secs. 21 to 27, those portions of secs 28 and 29 lying east of Papago Indian Reservation Bdy, that portion of sec. 33 lying north of Papago Indian Reservation Bdy, secs. 34 to 36; T. 21 S., R. 8 E., secs. 4 to 9; T. 22 S., R. 7 E., secs. 1 to 3, 10 to 15, 22 to 25; T. 22 S., R. 8 E., S 1/2 SW, SW 1/4 SE 1/4 sec. 18, W 1/2 & W 1/2 E 1/2 sec. 19, that portion of sec. 20 outside Buenos Aires NWR Bdy, secs. 29, 30.

Unit 2. Pima County, Arizona. From BLM map Silver Bell Mts., Ariz. 1977.

Gila and Salt Principal Meridian, Arizona: T. 13 S., R. 9 E., secs. 31 to 36; T. 13 S., R. 10 E., secs. 31 to 36; T. 13 S., R. 12 E., those portions of secs. 31 to 34 lying within Tucson Mountain County Park; T. 14 S., R. 9 E., secs. 1 to 12; T. 14 S., R. 10 E., secs. 1 to 12; T. 14 S., R. 11 E., that portion of secs. 1 and 2 lying within the Tucson Mountain County Park, secs. 5 to 8, 10, 11, those portions of secs. 12 and 13 lying within Tucson Mountain County Park, secs. 14 and 15; T. 14 S., R. 12 E., those portions of secs. 1 to 25, lying within Tucson Mountain County Park; T. 14 S. R. 13 E., those portions of secs. 7, 18, 19, 28, 29, and 30 lying within Tucson Mountain County Park. (Note: Areas described for Tucson Mountain County Park do not match the Silver Bell Mts., Ariz. BLM map cited above. This description is based on more recent information obtained from Pima County Public Works.)

Unit 3. Pima County, Arizona. From BLM map Silver Bell Mts., Ariz. 1977.

Gila and Salt Principal Meridian, Arizona: T. 12 S., R. 12 E., those portions of secs. 8 and 9 lying south and west of Interstate 10, secs. 17, 20, and 29.

Unit 4. Pima and Pinal Counties, Arizona. From BLM maps Casa Grande, Ariz. 1979, Silver Bell Mts., Ariz. 1977.

Gila and Salt Principal Meridian, Arizona: T. 10 S., R. 11 E., secs. 1 to 36; T. 10 S., R. 12 E., secs. 4 to 9, 16 to 21, 28 to 33; T. 11 S., R. 11 E., secs. 1 to 5, 9 to 15, secs. 23, 24; T. 11 S., R. 12 E., secs. 3 to 10, 14 to 30, N 1/2 sec. 31, secs. 32 to 36; T. 11 S., R. 13 E., secs. 19, 28 to 33; T. 12 S., R. 12 E., secs. 1 to 4, those portions of secs. 8 and 9 lying north and east of Interstate 10, secs. 10 to 14, 23, 24, that portion of sec. 25

lying north of W. Cortaro Farms Road, that portion of sec. 26 lying north of W. Cortaro Farms Road and north and east of Interstate 10; T. 12 S., R. 13 E., secs. 4 to 9, 16 to 21, those portions of secs. 29 and 30 lying north of W. Cortaro Farms Road.

Unit 5a. Pinal County, Arizona. From BLM maps Mesa, Ariz. 1979, Casa Grande, Ariz. 1979.

Gila and Salt Principal Meridian, Arizona: T. 5 S., R. 11 E., secs. 1 to 36; T. 6 S., R. 11 E., secs. 1 to 36; T. 7 S., R. 11 E., secs. 1 to 36; T. 8 S., R. 11 E., secs. 1 to 36; T. 9 S., R. 11 E., secs. 1 to 36.

Unit 5b. Pinal County, Arizona. From BLM maps Casa Grande, Ariz. 1979, Mammoth, Ariz. 1986.

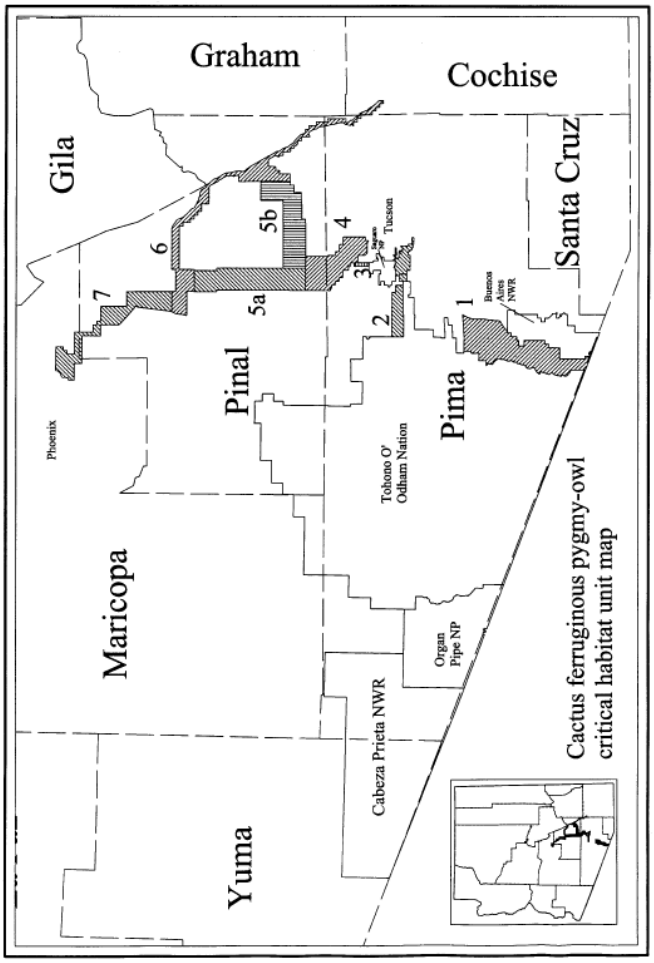
Gila and Salt Principal Meridian, Arizona: T. 8 S., R. 15 E., secs. 1 to 36; T. 9 S., R. 12 E., secs. 1 to 36; T. 9 S., R. 13 E., secs. 1 to 36; T. 9 S., R. 14 E., secs. 1 to 31; T. 9 S., R. 15 E., secs. 1 to 12, 14 to 21, 28 to 30.

Unit 6. Cochise, Pima, and Pinal Counties, Arizona. From BLM maps Mesa, Ariz. 1979, Globe, Ariz. 1986, Mammoth, Ariz. 1986, and Tucson, Ariz. 1979.

Gila and Salt Principal Meridian, Arizona: T. 4 S., R. 9 E., those portions of secs. 1, 12, 13, and 24 lying east of U.S. Hwy 89; T. 4 S., R. 10 E., secs. 1 to 5, that portion of sec. 6 lying east of U.S. Hwy 89, secs. 7 to 24; T. 4 S., R. 11 E., secs. 7 to 36; T. 4 S., R. 12 E., secs. 1 to 12; T. 4 S., R. 13 E., that portion of sec. 1 lying south and west of St. Hwy 177, secs. 2 to 12; T. 4 S., R. 14 E., those portions of secs. 5, 6, 7, 8, 16, and 17 lying south and west of St. Hwy 177, secs. 18, 20, those portions of secs. 21, 22, 26, and 27, lying south and west of St. Hwy 177, secs. 28, 29, 33, and 34, that portion of sec. 35 lying south and west of St. Hwy 177; T. 5 S., R. 14 E., those portions of secs. 1 and 2 lying south and west of St. Hwy 177, secs. 3, 11, 12; T. 5 S., R. 15 E., those portions of secs. 6, 7, 8, 9, and 10 lying south and west of St. Hwy 177, that portion of sec. 14 lying south and west of the Pinal and Gila Counties boundary (all within Pinal County), that portion of sec. 15 lying south of St. Hwy 177 and west of the Pinal and Gila Counties boundary (all within Pinal County), secs 16 to 22, that portion of sec. 23 lying south and west of the Pinal and Gila Counties boundary (all within Pinal County), that portion sec. 24 lying west of St. Hwy 77 and south of Pinal and Gila Counties boundary (all within Pinal County), that portion of sec. 25 lying south and west of St. Hwy 77 and north and east of San Manuel Railroad, those portions of secs. 26 and 36 lying north and east of San Manuel Railroad; T. 5 S., R. 16 E., those portions of secs. 30 and 31 lying south and west of St. Hwy 77; T. 6 S., R. 15 E., that portion of sec. 1 lying north and east of San Manuel Railroad; T. 6 S., R. 16 E., that portion of sec. 5 lying south and west of St. Hwy 77, that portion of sec. 6 lying south and west of St. Hwy 77 and north and east of San Manuel Railroad, that portion of sec. 7 lying north and east of San Manuel Railroad, that portion sec. 8 lying south and west of St. Hwy 77 and north and east of San Manuel Railroad, those portions of secs. 9 and 16 lying south and west of St. Hwy 77, those portions of secs. 17 and 20 lying east of San Manuel Railroad, those portions of secs. 21 and 28 lying west of St. Hwy 77, those portions of secs. 29 and 32 lying east of San Manuel Railroad, that portion of sec. 33 lying west of St. Hwy 77; T. 7 S., R. 16 E., that portion of sec. 4 lying west of St. Hwy 77, secs. 5 to 8, those portions of secs. 9, 10, and 15 lying south and west of St. Hwy 77, secs. 16 to 21, those portions of secs. 22, 23, 25, and 26 lying south and west of St. Hwy 77, secs. 27 to 35, that portion of sec. 36 lying south and west of St. Hwy 77; T. 8 S., R. 16 E., that portion of sec. 1 lying south and west of St. Hwy 77, secs. 2 to 12, that portion of sec. 13 lying east of Camino Rio Road, secs. 15 to 22, 28 to 32; T. 8 S., R. 17 E., that portion of sec. 6 south and west of St. Hwy 77, that portion of section 7 west of St. Hwy 77 and west of River Road, that portion of sec. 17 lying south and west of River Road, that portion of sec. 18 south and west of River Road and north and east of a line defined by Camino Rio Road where it runs southeasterly from the west boundary of sec. 18 to its intersection with St. Hwy 77 then southeasterly along St. Hwy 77 to its intersection with Old State Hwy 77 then along Old State Hwy 77 to its intersection with the south boundary of sec. 18, that portion of sec. 19 lying east of Old State Highway 77, those portions of secs. 20, 28, and 29 lying south and west of River Road, that portion of sec. 30 lying east of Old State Hwy 77 and St. Hwy 77, sec. 32, that portion of sec. 33 lying west of River Road; T. 9 S., R. 16 E., secs. 5 to 8; T. 9 S., R. 17 E., those portions of secs. 3 and 4 lying west of River Road, sec. 9, those portions of secs. 10, 14, and 15 lying west of River Road, NE 1/4 sec. 22, those portions of secs. 23, 24, and 25 west of River Road; T. 9 S., R. 18 E., those portions of secs. 30, 31 and 32 west of River Road; T. 10 S., R. 18 E., those portions of secs. 5, 6, 7, and 8 lying north and east of Redington Road, sec. 9, those portions of secs. 16, 17, and 21 lying north and east of Redington Road, secs. 22 and 27, those portions of secs. 28 and 33 lying east of Redington Road, sec. 34; T. 11 S., R. 18 E., sec. 2, those portions of secs. 3 and 10 lying east of Redington Road, secs. 11 and 14, those portions of secs. 15 and 22 lying east of Redington Road, secs. 23 and 26, that portion of sec. 27 lying east of Redington Road, that portion of sec. 34 lying east of Redington Road and west of Cascabel Road, that portion of sec. 35 lying west of Cascabel Road; T. 12 S., R. 18 E., that portion of sec. 2 west of Cascabel Road, that portion of sec. 3 lying east of Redington Road, those portions of secs. 11, 12, and 13 lying west of Cascabel Road; T. 12 S., R. 19 E., those portions of secs. 18, 19, 29, and 30 lying west of Cascabel Road, sec. 31, that portion of sec. 32 and 33 lying west of Cascabel Road; T. 13 S., R. 19 E., that portion of sec. 4 lying west of Cascabel Road, sec. 5, those portions of secs. 9, 10, and 15 lying west of Cascabel Road.

Unit 7. Maricopa and Pinal Counties, Arizona. From BLM maps Theodore Roosevelt Lake, Ariz. 1981 and Mesa, Ariz. 1979.

Gila and Salt Principal Meridian, Arizona: T. 3 N., R. 7 E., that portion of sec. 33 lying easterly of Salt River Indian Reservation Bdy, secs. 34 to 36; T. 3 N., R. 8 E., secs. 31 to 33; T. 2 N., R. 7 E., secs. 1 to 3, those portions of secs. 4, 5, 6 and 7 lying south and east of Salt River Indian Reservation Bdy, secs. 8 to 17, that portion of sec. 18 lying south and east Salt River Indian Reservation Bdy, secs. 19 to 25, E 1/2 sec. 26, E 1/2 sec. 35, sec. 36; T. 2 N., R. 8 E., secs. 4 to 8, 18, 19, 25 to 36; T. 2 N., R. 9 E., secs. 30, 31; T. 1 N., R. 9 E., secs. 6, 7, 18 to 21, 27 to 30, 34 to 36; T. 1 N., R. 10 E., secs. 31, 32; T. 1 S., R. 9 E., secs. 1 to 3, 10 to 15, 22 to 26, those portions of secs. 27, 35 and 36 lying north and east of U.S. Hwy 60/89; T. 1 S., R. 10 E., secs. 5 to 8, 17 to 20, 29 to 32; T. 2 S., R. 9 E., that portion of sec 1 lying north and east of U.S. Hwy 60/89; T. 2 S., R. 10 E., secs. 1 to 5, those portions of secs. 6, 7 and 8 lying north and east of U.S. Hwy 60/89, secs. 9 to 16, that portion of sec. 17 lying north and east of U.S. Hwy 60/89 and south and east of U.S. Hwy 89, that portion of sec. 20 lying east of U.S. Hwy 89, secs. 21 to 28, those portions of secs. 29 and 32 lying east of U.S. Hwy 89, secs. 33 to 36: T. 3 S., R. 10 E., secs. 1 to 4, those portions of secs. 5 and 8 lying east of U. S. Hwy 89, secs. 9 to 16, those portions of secs. 17, 18, and 19 lying east of U.S. Hwy 89, secs. 20 to 29, those portions of secs. 30 and 31 lying east of U.S. Hwy 89, secs. 32 to 36.



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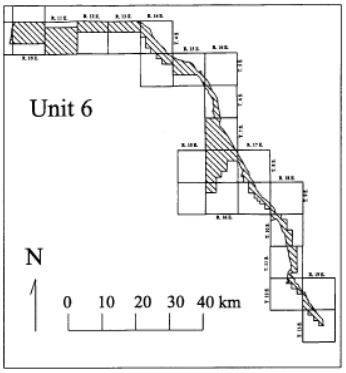

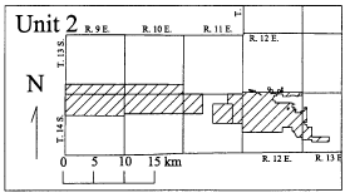

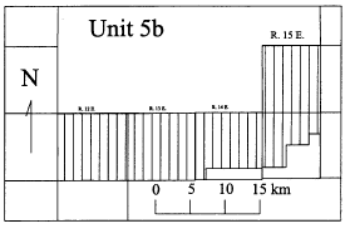

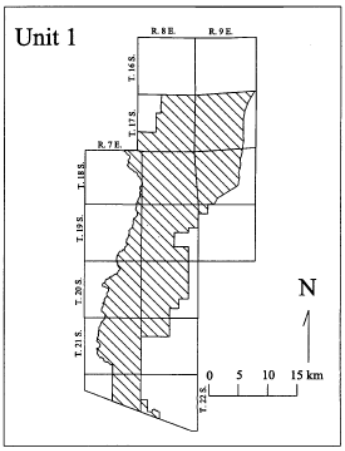

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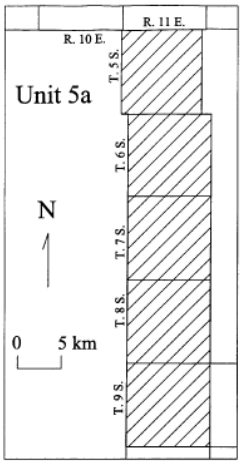

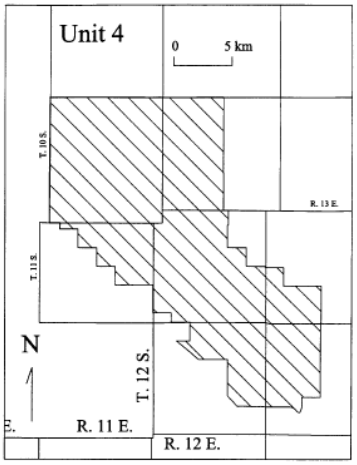

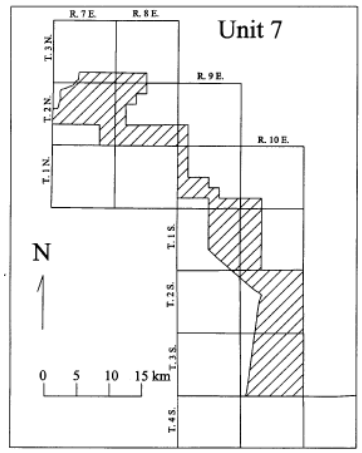

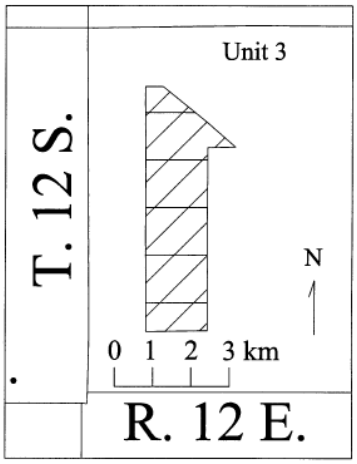

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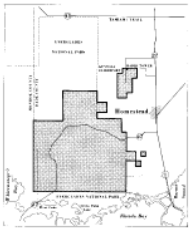
Cape Sable Sparrow (Ammospiza maritima mirabilis)

Florida. Areas of land, water, and airspace in the Taylor Slough vicinity of Collier, Dade, and Monroe counties, with the following components (Tallahassee Meridian): Those portions of Everglades National Park within T57S R36E, T57S, R36 1/2E, T57S R37E, T58S R35E, T58S R36E, T58S R37E, T58 1/2S R35E, T58 1/2S R36 1/2E T59S R35E, T59S, R36E, T59S R37E. Areas outside of Everglades National Park within T55S R37E Sec. 36; T55S R38E Sec. 31, 32; T56S R37E Sec. 1, 2, 11–14, 23–26; T56S R38E Sec. 5–7, 18, 19; T57S R37E Sec. 5–8, T58S R38E Sec. 27, 29–32; T59S R38E Sec. 4.

Note:

Map follows:



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Inyo Brown Towhee (Pipilo fuscus eremophilus)

California, Inyo County: lands within and adjacent to the China Lake Naval Weapons Center identified as follows:

(1) Approximately 2.0 miles of streambed and 1/8 mile on either side of the wash from Margaret Ann Spring and proceeding downstream to the eastern boundary of Section 3 near Snooky Spring. The above includes portions of Sections 3, 4, 9, and 10, T23S R42E. (Map location A)

(2) A circle 1/8 mile in radius with the spring in T23S R42E W 1/2 NE 1/4 Section 8 as the center. (Map location B)

(3) Approximately 2 miles of streambed and 1/8 mile on either side of the wash from Ruby Spring (T23S R42E, Section 22) and proceeding downstream to the boundary between Sections 25 and 26. The above includes portions of Sections 22, 23, 25, and 26, T23S R42E. (Map location C)

(4) A circle 1/8 mile in radius with Quail Spring as the center in T23S R42E, NE 1/4 Section 28. (Map location D)

(5) A circle 1/8 mile in radius with Benko Spring as the center in T23S R42E, Sections 34 and 35. (Map location E)

(6) A circle 1/8 mile in radius with Bench Mark 5485 (some USGS maps report this as 5484) near the common boundary of Sections 31 and 32, T23S R42E, as the center and lying within Sections 31 and 32. (Map location F)

(7) T24S R42E, NW 1/4 NW 1/4 Section 2 and NE1/4 NE1/4 Section 3. (Map location G)

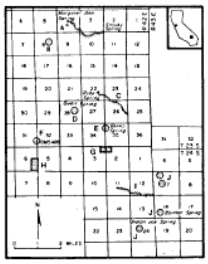
(8) T24S R42E, E 1/2 SE 1/4 Section 6. (Map located H)

(9) Approximately 1.8 miles of streambed and 1/8 mile on either side of Great Falls Basin Wash commencing from the western boundary of E 1/2 Section 11, T24S R42E, and proceeding downstream along the streambed to the eastern boundary of Section 13. The above includes portions of Sections 11, 12, 13, and 14, T24S R42E. (Map location I)

(10) Circles with 1/8 mile radii around Mumford and Austin Springs in T24S R43E, Section 7 and Bainter Spring in Section 18 and around Indian Joe Spring in T24S R42E Section 24. (Map locations J)

Note:

Map follows:



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(11) Approximately 5 miles of streambed and 1/8 mile on either side of Mountain Springs Canyon commencing from the southern border of Section 8 and continuing along the streambed to the point at which Mountain Springs Canyon Wash intersects the eastern boundary of SW 1/4 Section 12. The above includes portions of Sections 8, 9, 10, 11, 12, 13, 14, and 17, T23S R41E. (Map location K)

Note:

Map follows:

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Major constituent element: desert riparian scrub vegetation.

Least Bell's Vireo (Vireo bellii pusillus)

California: Areas of land and water as follows:

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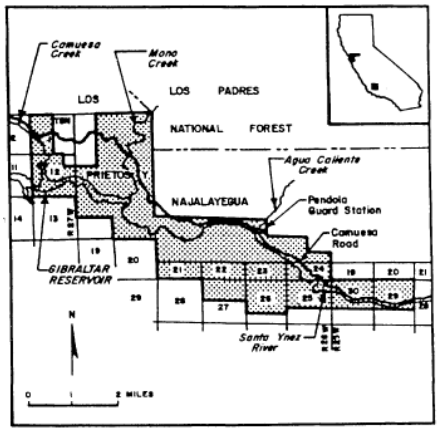
1. Santa Ynez River, Santa Barbara County (Index map location A).

T. 5 N., R. 27 W.: secs. 1, W 1/2, and 12, all except NE 1/4. In addition, all adjacent lands within the following circumscribed area: beginning at a point 0.25 mi south of the northeast corner of sec. 12, T. 5 N., R. 27 W.; thence east about 0.5 mi; thence north about 1.25 mi; thence east approximately 1.3 mi to the intersection of Mono Creek and the Los Prietos Y Najalayegua land grant boundary; thence south about 2.5 mi; thence east approximately 2.6 mi to Agua Caliente Creek (at a point about 0.4 mi north and 0.1 mi east of the Pendola Guard Station); thence south about 0.5 mi; thence east about 1.0 mi; thence south about 0.25

mi; thence east about 0.5 mi; thence south about 0.75 mi to the southwest corner of T. 5 N., R. 25 W., sec. 19; thence east to the southeast corner of T. 5 N., R. 25 W., sec 20; thence south about 0.63 mi; thence west to western boundary of T. 5 N., R. 26 W., sec. 25; thence south about 0.16 mi; thence west to eastern boundary of T. 5 N., R. 26 W., sec. 27; thence north about 0.25 mi; thence west to western boundary of T. 5 N., R. 26 W., sec. 27; thence north to the northeastern corner of T. 5 N., R. 26 W., sec. 27; thence north to the northeastern corner of T. 5 N., R. 26 W., sec. 28; thence west to the northwest corner of T. 5 N., R. 26 W., sec. 28; thence north to the northeast corner of T. 5 N., R. 26 W., partially unsurveyed sec. 20; thence west to the northeast corner of T. 5 N., R. 26 W., unsurveyed sec. 19; thence north about 0.5 mi; thence west to the southeast corner of T. 5 N., R. 27 W., sec. 13, NE 1/4; and thence north to the southeast corner of T. 5 N., R. 27 W., sec. 12.



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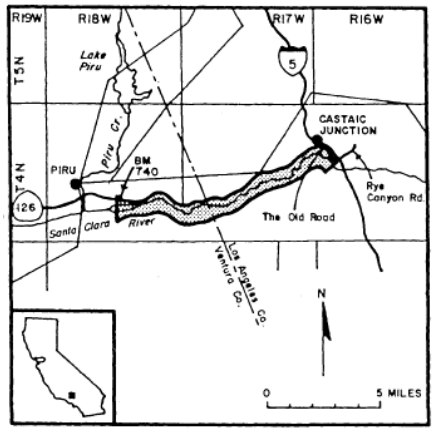
2. Santa Clara River, Los Angeles and Ventura Counties (Index map location B).

T. 4 N., Rs. 17 and 18 W.: all land within 3,500 feet perpendicularly and generally southward or westward of a line commencing at a point 100 yards west of BM 740 (a point about 2.3 mi east of the intersection of Main Street and State Highway 126 in Piru); thence east along State Highway 126 to its intersection with The Old Road at Castaic Junction; and thence eastward and southward along The Old Road to its intersection with Rye Canyon Road.



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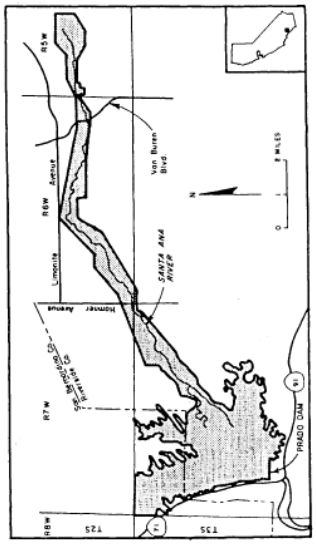
3. Santa Ana River, Riverside and San Bernardino Counties (Index map location C).

All lands below the 543-foot contour in partially surveyed T. 3 S., R. 7 W., within the Prado Flood Control Basin (upstream from Prado Dam). In addition, the following adjacent lands above the 543-foot contour in the Santa Ana River bottom and within the following boundaries: commencing at a point 0.1 mi east and 0.2 mi north of the southwest corner of sec. 2, T. 3 S., R. 7 W.; thence north about 0.4 mi; thence to a point 0.25 mi east and 0.4 mi north of southwest corner of sec. 31, T. 2 S., R. 6 W.; thence to the northeast corner of sec. 31, T. 2 S., R. 6 W.; thence east 0.35 mi; thence to midpoint of southern section line of sec. 21, T. 2 S., R. 6 W.; thence to a point 0.6 mi south of the northwest corner of sec. 25, T. 2 S., R. 6 W.; thence east about 0.6 mi; thence to a point 0.2 mi north of the center of sec. 30, T. 2 S., R. 5 W.; thence east about 0.7 mi; thence to a point 0.6 mi east of the southwest corner of sec. 20, T. 2 S., R. 5 W.; thence east about 0.8 mi; thence 0.6 mi south; thence to a point 0.3 mi north of the southwest corner of sec. 28, T. 2 S., R. 5 W.; thence to a point 0.45 mi north of the southwest corner of sec. 29, T. 2 S., R. 5 W.; thence generally westward and southward along the Riverside Corporation Boundary (as shown on USGS Riverside Quadrangle 1980) to its intersection with Van Buren Blvd.; thence to a point 0.2 mi east and 0.75 mi south of the northwest corner of sec. 27, T. 2 S., R. 6 W.; thence 0.25 mi north; thence 0.7 mi west; thence to a point 0.85 mi north of the southwest corner of sec. 32, T. 2 S., R. 6 W.; thence to a point 0.75 mi west and 0.1 mi south of the northeast corner of sec. 6, T. 3 S., R. 6 W.; thence 0.5 mi west; and thence to the 543-foot contour at a point 0.3 mi west of the southeast corner of sec. 2, T. 3 S., R. 7 W.



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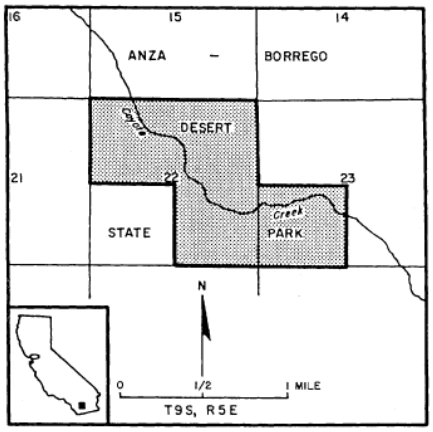

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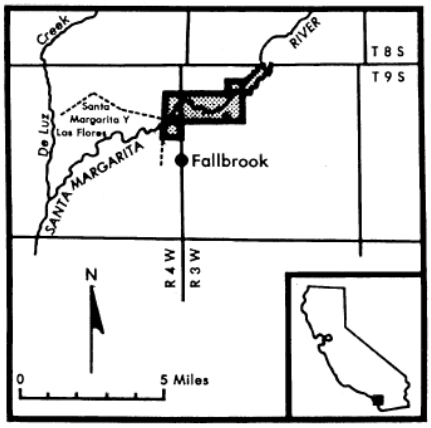
4. Coyote Creek, San Diego County (Index map location D).

T. 9 S., R. 5 E.: secs. 22, N 1/2, SE 1/4; and 23, SW 1/4.



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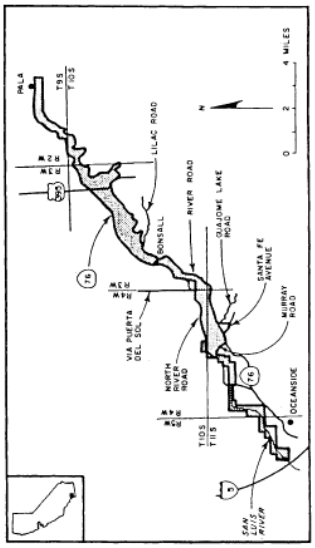
5. Santa Margarita River, San Diego County (Index map location E).

T. 9 S., R. 3 W.: secs. 4, all lands below the 600-foot contour; 5 SE 1/4; 7; and 8.

In T. 9 S., R. 4 W., Sec. 12 E 1/2; 13 NE 1/4.



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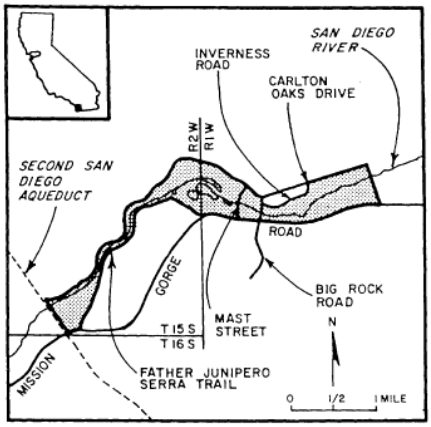
6. San Luis Rey River, San Diego County (Index map location F).

T. 11 S., R. 5 W.: secs. 13, S 1/2NE 1/4, SE 1/4NW 1/4, SW 1/4; 14, SE 1/4SW 1/4, S12SE 1/4; and 23, NW 1/4.

T. 11 S., R. 4 W.: secs. 3, all land north of Murray Road; 4, E 1/2NE 1/4, E 1/2SE 1/4SW 1/4, W 1/2NE 1/4SE 1/4, E 1/2NW 1/4SE 1/4, SW 1/4SE 1/4; 7, N 1/2NE 1/4NE 1/4, NW 1/4NE 1/4, E 1/2W 1/2, SW 1/4SW 1/4; 8, N 1/2NE 1/4, N 1/2N 1/2NW 1/4; 9, N 1/2NW 1/4; and 18, NW 1/4.

T. 10 S., R. 4 W.: sec. 34, S1/2SW 1/4.

Surveyed and unsurveyed portions according to the following metes and bounds: bordered on the north by a line commencing at the intersection of North River Road and the surveyed eastern section line of sec. 3, T. 11 S., R. 4 W.; thence east along said road to its junction with Via Puerta Del Sol; thence east approximately 0.5 mi to State Highway 76 nearest the midpoint of sec. 31, T. 10 S., R. 3 W.; thence northward and eastward along said highway to its intersection with the eastern section line of sec. 27, T. 9 S., R. 2 W.; and bordered on the south by a line commencing at the intersection of Murray Road and the surveyed eastern section line of sec. 3, T. 11 S., R. 4 W.; thence southward and eastward along said road to its junction with State Highway 76; thence eastward and northward along said highway to its junction with Santa Fe Avenue; thence southeastward 3,000 feet along said avenue; thence northward along a straight line to Guajome Lake Road at a point 800 feet from the junction of said road and State Highway 76; thence northwestward along Guajome Lake Road to its junction with said highway; thence eastward along said highway to its junction with River Road in sec. 31, T. 10 S., R. 3 W.; thence northward along said road to its intersection with the surveyed eastern section line of sec. 20, T. 10 S., R. 3 W.; thence north to and northeasterly along the 250-foot contour in sec. 21 through partially surveyed sec. 15, T. 10 S., R. 3 W.; thence north to a point about 0.2 mi south of the northwest corner of sec. 14 and continuing along the 300-foot contour from the western section line of sec. 14 eastward through unsurveyed sec. 11, surveyed secs. 13 and 12, T. 10 S., R. 3 W.; and surveyed sec. 18, T. 10 S., R. 2 W.; thence east to and along the 325-foot contour through sec. 1, T. 10 S., R. 3 W.; thence south to and along the 350-foot contour in secs. 6 and 5, T. 10 S., R. 2 W., and secs. 32 and 33, T. 9 S., R. 2 W., to the northern section line of sec. 33; thence east approximately 1.5 mi to the southeastern corner of sec. 27, T. 9 S., R. 2 W.; and thence north about 0.4 mi to State Highway 76 in Pala.



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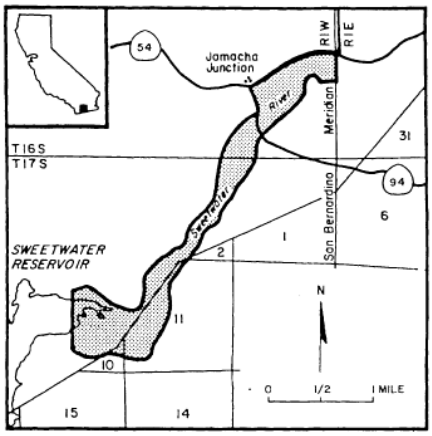
7. San Diego River, San Diego County (Index map location G).

T. 15 S., Rs. 1 and 2 W.: commencing at the intersection of the Second San Diego Aqueduct and Mission Gorge Road; thence eastward along said road to the western-most intersection with Father Junipero Serra Trail; thence northward and eastward along said trail to the eastern-most intersection of said trail and said road; thence eastward along Mission Gorge Road to its intersection with Carlton Hills Blvd.; thence northward to its intersection with Carlton Oaks Drive; thence westward along said drive to its eastern-most intersection with Inverness Road; thence westward along said road to its intersection with Carlton Oaks Drive; thence westward along said drive to its intersection with Mast Street; thence westward and southward along the 320-foot contour to its intersection with the Second San Diego Aqueduct on the north side of the San Diego River; thence southeastward along said aqueduct to its intersection with Mission Gorge Road.



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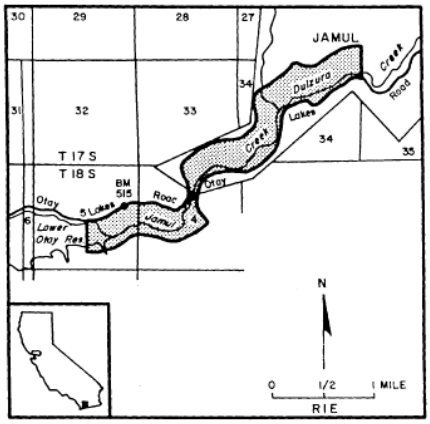
8. Sweetwater River, San Diego County (Index map location H).

T. 16 and 17 S., R. 1 W.: commencing at the intersection of the 320-foot contour and 116o58°14''' W longitude immediately north of the confluence of Sweetwater River and Sweetwater Reservoir; thence eastward along the contour to the intersection of said contour with State Highway 94; thence northward along said highway to its intersection with State Highway 54; thence northeastward along said highway to the San Bernardino Meridian; thence south approximately 1,500 feet to the intersection with the 340-foot contour; thence westward and southward along said contour to the south end of the Steele Canyon Bridge on State Highway 94; thence south approximately 900 feet to the 340-foot contour; thence southwesterly along said contour to its intersection with 116°58'14" W longitude; thence north to starting point.



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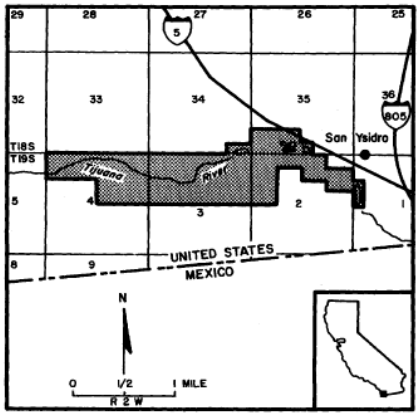
9. Jamul-Dulzura Creeks, San Diego County (Index map location I).

T. 17 and 18 S., R. 1 E.: commencing from a point approximately 2,200 feet west of BM 515 along Otay Lakes Road, in sec. 5, T. 18 S., R. 1 E.; thence east approximately one mile to the crossing of said road at a bridge over Jamul Creek, including all land within 1,500 feet southward of Otay Lakes Road as measured perpendicularly from the road; thence eastward for about 2.4 mi along said road and including all lands within 1,500 feet northward of said road as measured perpendicularly from the road, and including all lands within 500 feet of said bridge not otherwise included above.

10. Tijuana River, San Diego County (Index map location J).

T. 18 S., R. 2 W.: secs. 34, S 1/2SE 1/4SE 1/4; and 35, S 1/2SW 1/4, SW 1/4SW 1/4SE 1/4.

T. 19 S., R. 2 W.: secs. 1, W 1/2SW 1/4NW 1/4; 2, S 1/2NE 1/4NE 1/4, NW 1/4NE 1/4, N 1/2SE 1/4NE 1/4, N 1/2NE 1/4NW 1/4, W 1/2NW 1/4; 3, N 1/2; and 4, NE 1/4, N 1/2NW 1/4.



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Primary constituent elements: riverine and floodplain habitats (particularly willow-dominated riparian woodland with dense understory vegetation maintained, in part, in a non-climax stage by periodic floods or other agents) and adjacent coastal sage scrub, chaparral, or other upland plant communities.

(c) *Reptiles.*

Culebra Island Giant Anole (Anolis roosevetti)

Note:

No text. Map follows:

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Mona Boa (Epicrates monensis monensis)

Commonwealth of Puerto Rico. Mona Island—entire island.

Note:

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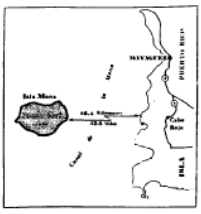

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American Crocodile (Crocodylus acutus)

Florida. All land and water within the following boundary: Beginning at the easternmost tip of Turkey Point, Dade County, on the coast of Biscayne Bay; thence southeastward along a straight line to Christmas Point at the southernmost tip of Elliott Key; thence southwestward along a line following the shores of the Atlantic Ocean side of Old Rhodes Key, Palo Alto Key, Anglefish Key, Key Largo, Plantation Key, Windley Key, Upper Matecumbe Key, Lower Matecumbe Key, and Long Key, to the westernmost tip of Long Key; thence Northwestward along a straight line to the westernmost tip of Middle Cape; thence northward along the shore of the Gulf of Mexico to the north side of the mouth of Little Sable Creek; thence eastward along a straight line to the northernmost point of Nine-Mile Pond; thence northeastward along a straight line to the point of beginning.

Note:

No map.

Monito Gecko (Sphaerodactylus micropithecus)

Puerto Rico. Isla Monito—entire island.

Note:

Map follows:

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Mona Ground Iguana (Cyclura stejnegeri)

Commonwealth of Puerto Rico. Mona Island—entire island.

Note:

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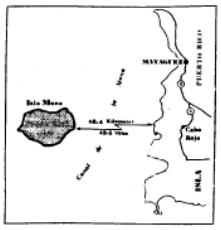

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Coachella Valley Fringe-Toed Lizard (Uma inornata)

California. Riverside County. S 1/2 Section 5, SE 1/4 Section 6, E 1/2 Section 7, all of sections 8 through 11, W 1/2 Section 12, W 1/2 Section 13, all of sections 14 through 16, E 1/2 Section 17, E 1/2NW 1/4 Section 17, E 1/2SW 1/4 Section 17, all of sections 21 through 26, E 1/2NW 1/4, NW 1/4SE 1/4, E 1/2SE 1/4, NE 1/4 Section 27, all of sections 35 and 36, T4S R6E.

Note:

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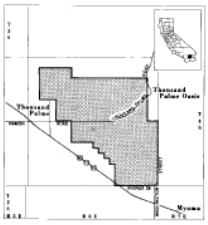

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St. Croix Ground Lizard (Ameiva polops)

U.S. Virgin Islands. Protestant Cay, roughly defined by the coordinates 64°42'15" N. and 17°45'7.5" W.; and Green Cay, roughly defined by the coordinates 67°37'30" N. and 17°46'" W.

Note:

Map follows:

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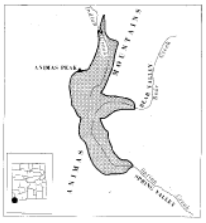
New Mexican Ridge-Nosed Rattlesnake (Crotalus willardi obscurus)

New Mexico. Hidalgo County. Elevations between 6,200 feet and 8,532 feet in Bear, Indian, and Spring Canyons, Animas Mountains.

Note:

Map follows:



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Concho Water Snake (Nerodia harteri paucimaculata)

Texas: Areas of land and water as follows:

1. *Tom Green and Concho Counties.* Concho River: The mainstream river channel and river banks, up to a level on both banks that is 15 vertical feet above the water level at median discharge (but not extending more than 1/2 mile upstream on any tributary stream); extending from Mullin's Crossing, northeast of the town of Veribest downstream to the confluence of the Concho and Colorado Rivers.

2. *Runnels, Concho, Coleman, and McCulloch Counties.* Colorado River: The mainsteam river channel and river banks, up to a level on both banks that is 15 vertical feet above the water level at median discharge (but not extending more than 1/2 mile upstream on any tributary steam); extending from the Farm to Market Road 3115 bridge near the town of Maverick downstream to the confluence of the Colorado River and Salt Creek, northeast of the town of Doole.

3. The entire future Stacy Reservoir basin up to the conservation pool level of 1551.5 feet elevation, and including reservoir banks up to 15 vertical feet above the 1551.5 feet elevation, and including tributary streams for not more than 1/2 mile upstream from the conservation pool level.

4. Constituent elements include shallow riffles and rapids with rocky cover, minimum steam flows, dirt banks, rocky shorelines, and woody riparian vegetation. Minimum flows include the following:

(a) A continous, daily flow of 10.0 cubic feet/second (cfs) in the Colorado River from E.V. Spence Reservoir to Ballinger, Texas.

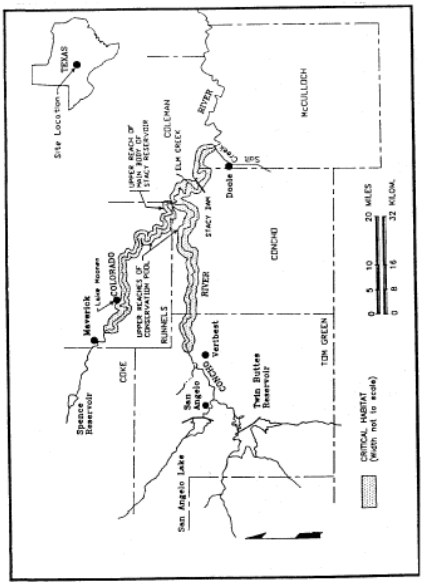
(b) A flushing flow of 600 cfs from E.V. Spence Reservoir for a duration of 3 consecutive days (at any time during the months of November through February), at least every other year for channel maintenance.

(c) A continuous, daily minimum flow of 11.0 cfs in the Colorado River between Stacy Dam and Pecan Bayou between April and September each year, and a minimum of 2.5 cfs between October and March of each year.

(d) Flushing flows of 2500 cfs from Stacy Reservoir for 2 consecutive days at least once every 2 years for channel maintenance.

Note:

Map follows:



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Desert Tortoise—Mojave Population (Gopherus agassizii)

Index map of approximate locations of critical habitat units follows:

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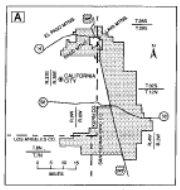
California. Areas of land as follows:

1. *Fremont-Kramer Unit.* Kern, Los Angeles, and San Bernardino Counties. From BLM Maps: Victorville 1978 and Cuddeback Lake 1978. (Index map location A).

Mt. Diablo Meridian: T. 29 S., R. 39 E., secs. 13, 14, 22–26, 35, and 36; T. 29 S., R. 40 E., secs. 12–33; T. 29 S., R. 41 E., secs. 7, 8, 17–20, 27–30, and 32–36; T. 30 S., R. 38 E., secs. 24–26, 35, and 36; T. 30 S., R. 39 E., secs. 1–36 except secs. 3–5; T. 30 S., R. 40 E., secs. 4–9 and 13–36 except those portions of secs. 13, 14, and 23 lying northwesterly of the Randsburg-Mojave Road; T. 30 S., R. 41 E., secs. 1–36 except secs. 5–8 and 20 and those portions of secs. 17 and 18 lying easterly of U.S. Hwy. 395; T. 30 S., R. 42 E., secs. 7–10, 15–22, and 27–34; T. 31 S., R. 40 E., secs. 1 and 6 except that portion of sec. 6 lying southeasterly of the Randsburg-Mojave Road; T. 31 S., R. 41 E., secs. 1–17, 20–29, and 32–36 except those portions of secs. 20, 29 and 32 lying westerly of U.S. Hwy. 395; T. 31 S., R. 42 E., secs. 3–10, 15–22, and 27–34; T. 32 S., R. 41 E., secs. 1–4, 9–16, 21–28, and 34–36 except those portions of secs. 4, 9, 16, 21, 27, 28, and 34 lying westerly of U.S. Hwy. 395; T. 32 S., R. 42 E.; T. 32 S., R. 43 E., secs. 4–9, 16–21, and 28–33.

San Bernardino Meridian: T. 7 N., R. 5 W., secs. 2–11 and 14–18 except that portion of sec. 18 lying west of U.S. Hwy. 395; T. 7 N., R. 6 W., secs. 1–6, 12, and 13 except those portions of secs. 1, 12, and 13 lying westerly of U.S. Hwy. 395; T. 7 N., R. 7 W., secs. 1–6; T. 7 N., R. 8 W., secs. 1–4; T. 8 N., R. 4 W., secs. 6, 7, and 18; T. 8 N., R. 5 W., secs. 1–35 except secs. 24 and 25; T. 8 N., R. 6 W.; T. 8 N., R. 7 W.; T. 8 N., R. 8 W., secs. 1–28, and 33–36; T. 8 N., R. 9 W., secs. 1 and 7–24; T. 9 N., R. 4 W., secs. 2–11, 14–23, 30, and 31; T. 9 N., R. 5 W.; T. 9 N., R. 6 W.; T. 9 N., R. 7 W., secs. 1–4, 9–16, and 19–36; T. 9 N., R. 8 W., secs. 24, 25, and 31–36; T. 9 N., R. 9 W., sec. 36; T. 10 N., R. 4 W., secs. 6, 7, 18–20, and 29–34; T. 10 N., R. 5 W.; T. 10 N., R. 6 W., secs. 1–36 except sec. 6; T. 10 N., R. 7 W., secs. 9–16, 21–28, and 33–36; T. 11 N., R. 5 W., secs. 2–11, 14–23, and 26–35; T. 11 N., R. 6 W., secs. 1–36 except those portions of secs. 6, 7, 18, 19, 30, and 31 lying westerly of U.S. Hwy. 395; T. 11 N., R. 7 W., that portion of sec. 1 lying easterly U.S. Hwy. 395; T. 12 N., R. 5 W., secs. 31–35; T. 12 N., R. 6 W., secs. 31–36; T. 12 N., R. 7 W., that portion of sec. 36 lying easterly of U.S. Hwy. 395.

MAP 2



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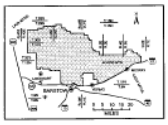
2. *Superior-Cronese Unit.* San Bernardino County. From BLM Maps: Cuddeback Lake 1978, Soda Mts. 1978, Victorville 1978, and Newberry Springs 1978. (Index map location B).

Mt. Diablo Meridian: T. 29 S., R. 42 E., secs. 35 and 36; T. 29 S., R. 43 E., secs. 25, 26, and 31–36; T. 29 S., R. 44 E., secs. 20–36; T. 29 S., R. 45 E., secs. 14–16, 19–23, and 25–36; T. 29 S., R. 46 E., secs. 30–32; T. 30 S., R. 42 E., secs. 1, 2, 11–14, 23–26, 35, and 36; T. 30 S., R. 43 E.; T. 30 S., R. 44 E.; T. 30 S., R. 45 E.; T. 30 S., R. 46 E., secs. 3–36; T. 30 S., R. 47 E., secs. 7–10, 15–22, and 27–34; T. 31 S., R. 42 E., secs. 1, 2, 11–14, 23–26, 35, and 36; T. 31 S., R. 43 E.; T. 31 S., R. 44 E.; T. 31 S., R. 45 E.; T. 31 S., R. 46 E.; T. 31 S., R. 47 E., secs. 3–10, 15–22, and 27–34; T. 32 S., R. 43 E., secs. 1–3, 10–15, 22–27, and 34–36; T. 32 S., R. 44 E.; T. 32 S., R. 45 E.; T. 32 S., R. 46 E.; T. 32 S., R. 47 E., secs. 3–10, 15–22, and 27–34.

San Bernardino Meridian: T. 9 N., R. 1 W., those portions of secs. 1 and 2 lying northerly of Interstate Hwy. 15; T. 9 N., R. 1 E., that portion of sec. 6 lying northerly of Interstate Hwy. 15; T. 10 N., R. 2 W., secs. 1–29; T. 10 N., R. 1 W., secs. 1–28, 30, and 33–36 except those portions of secs. 33–35 lying southwesterly of Interstate Hwy. 15; T. 10 N., R. 1 E., secs. 18, 19, 30, and 31; T. 10 N., R. 2 E., secs. 1–5, 8–17, and 22–34 except those portions of secs. 25, 26, and 34 lying southeasterly of Interstate Hwy. 15; T. 10 N., R. 3 E., secs. 1–12, 14–21, and 30 except those portions of secs. 11, 12, 14–16, 19–21, and 30 lying southeasterly of Interstate Hwy. 15; T. 10 N., R. 4 E., those portions of secs. 5–7 lying northwesterly of Interstate Hwy. 15; T. 11 N., R. 5 W., secs. 1 and 12; T. 11 N., R. 4 W., secs. 1–7, 9, 11, and 12; T. 11 N., R. 3 W., secs. 1–18; T. 11 N., R. 2 W.; T. 11 N., R. 1 W.; T. 11 N., R. 1 E., secs. 1–31; T. 11 N., R. 2 E., secs. 1–36 except sec. 31; T. 11 N., R. 3 E.; T. 11 N., R. 4 E., secs. 1–34 except those portions of secs. 25, 26, 33, and 34 lying southeasterly of Interstate Hwy. 15; T. 11 N., R. 5 E., secs. 1–11 and 15–20 except those portions of secs. 1, 2, 10, 11, 15–17, 19, and 20 lying southeasterly of Interstate Hwy. 15; T. 12 N., R. 5 W., sec. 36; T. 12 N., R. 4 W., secs. 31–36; T. 12 N., R. 3 W., secs. 31–36; T. 12 N., R. 2 W., secs. 31–36; T. 12 N., R. 1 W., secs. 31–36; T. 12 N., R. 1 E.; T. 12 N., R. 2 E., secs. 3–36; T. 12 N., R. 3 E., secs. 7–36; T. 12 N., R. 4 E., secs. 7–36; T. 12 N., R. 5 E., secs. 1–5 and 7–36; T. 12 N., R. 6 E., secs. 5–9, 15–22, and 27–34 except those portions of secs. 31–34 lying southerly of Interstate Hwy. 15; T. 13 N., R. 1 E.; T. 13 N., R. 2 E., secs. 19 and 29–34; T. 13 N., R. 5 E., secs. 26–28 and 32–36; T. 14 N., R. 1 E., secs. 5–10, 15–23, and 24–36.

MAP 3



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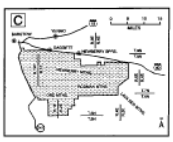
3. *Ord-Rodman Unit.* San Bernardino County. From BLM Maps: Newberry Springs 1978 and Victorville 1978. (Index map location C).

San Bernardino Meridian: T. 6 N., R. 1 E., secs. 1–6, 10–15, 22–27, and 34–36; T. 6 N., R. 2 E., secs. 1–11, 14–22, and 28–33; T. 7 N., R. 1 W., secs. 1–4, 9–15, 22–26, 35, and 36 except those portions of secs. 4, 9, 10, 15, 22, 23, 26, and 35 lying southwesterly of State Hwy. 247; T. 7 N., R. 1 E.; T. 7 N., R. 2 E.; T. 7 N., R. 3 E.; T. 7 N., R. 4 E.; T. 7 N., R. 5 E., secs. 4–9 and 17–19 except those portions of secs. 4, 8, 9, and 17–19 lying southerly of the northern boundary of Twentynine Palms Marine Corps Base; T. 8 N., R. 1 W., secs. 1–18, 20–29, and 32–36 except those portions of secs. 6, 7, 17, 18, 20, 29, 32, and 33 lying southwesterly of State Hwy. 247; T. 8 N., R. 1 E.; T. 8 N., R. 2 E., secs. 2–36; T. 8 N., R. 3 E., secs. 7 and 18–36; T. 8 N., R. 4 E., secs. 13–16 and 18–36; T. 8 N., R. 5 E., secs. 16–18, 19–21, 28–30, and 31–33 except those portions of secs. 16 and 17 lying northerly of Interstate Hwy. 40; T. 8 N., R. 6 E., secs. 18–21 and 27–36 except those portions of secs. 18–21, 27, 28, 34, and 35 lying northerly of Interstate Hwy. 40; T. 9 N., R. 1 W., secs. 19, 20, and 25–36 except those portions of secs. 19, 20, and 29–31 lying westerly of State Hwy. 247; T. 9 N., R. 1 E., secs. 25–36 except those portions of secs. 25–27 lying northerly of Interstate Hwy. 40; T. 9 N., R. 2 E., secs. 27–35 except those portions of secs. 27–30 lying northerly of Interstate Hwy. 40.

MAP 4



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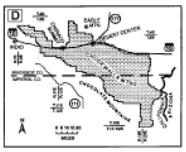
4. *Chuckwalla Unit.* Imperial and Riverside Counties. From BLM Maps: Chuckwalla #18 1978, Parker-Blythe #16 1978, Salton Sea #20 1978, and Midway Well #21 1979. (Index map location D).

San Bernardino Meridian: T. 3 S., R. 13 E., secs. 19–21 and 27–35; T. 4 S., R. 8 E., secs. 1–6, 8–16, 22–26, and 36; T. 4 S., R. 9 E., secs. 6–10, and 15–36; T. 4 S., R. 10 E., secs. 19–21, and 27–34; T. 4 S., R. 13 E., secs. 2–36 except secs. 12 and 13; T. 4 S., R. 14 E., secs. 27–36; T. 4 S., R. 15 E., secs. 31 and 32; T. 5 S., R. 9 E., secs. 1–4, 12, 13, and 24; T. 5 S., R. 10 E., secs. 2–36 except sec. 31; T. 5 S., R. 11 E., secs. 19–21 and 28–33; T. 5 S., R. 12 E., sec. 36; T. 5 S., R. 13 E., secs. 1–36 except secs. 6 and 7; T. 5 S., R. 14 E.; T. 5 S., R. 15 E., secs. 4–9, 16–21, 25, S 1/2 sec. 26, S 1/2 sec. 27, and secs. 28–36; T. 5 S., R. 16 E., secs. 28–35; T. 6 S., R. 10 E., secs. 1–4, 9–16, 21–26, 35 and 36; T. 6 S., R. 11 E., secs. 4–36; T. 6 S., R. 12 E.; T. 6 S., R. 13 E.; T. 6 S., R. 14 E.; T. 6 S., R. 15 E.; T. 6 S., R. 16 E.; T. 6 S., R. 17 E., secs. 5–9, and 14–36; T. 6 S., R. 18 E., secs. 29–36; T. 6 S., R. 19 E., secs. 31–36; T. 6 S., R. 20 E., secs. 31–34; T. 7 S., R. 11 E., sec. 1; T. 7 S., R. 12 E., secs. 1–6, 9–15, and 23–25; T. 7 S., R. 13 E., secs. 1–30 and 31–36; T. 7 S., R. 14 E.; T. 7 S., R. 15 E.; T. 7 S., R. 16 E.; T. 7 S., R. 17 E.; T. 7 S., R. 18 E.; T. 7 S., R. 19 E.; T. 7 S., R. 20 E., secs. 3–10, 14–23, and 26–35; T. 8 S., R. 13 E., secs. 1, 2, and 11–14; T. 8 S., R. 14 E., secs. 1–18, and secs. 21–26; T. 8 S., R. 15 E., secs. 1–30 and 34–36; T. 8 S., R. 16 E.; T. 8 S., R. 17 E.; T. 8 S., R. 18 E.; T. 8 S., R. 19 E.; T. 8 S., R. 20 E., secs. 3–10, 15–22, and 28–33; T. 9 S., R. 15 E., sec. 1; T. 9 S., R. 16 E., secs. 1–17, 20–29, and 32–36; T. 9 S., R. 17 E.; T. 9 S., R. 18 E.; T. 9 S., R. 19 E.; T. 9 S., R. 20 E., secs. 5–8, 17–20, and 29–33; T. 10 S., R. 16 E., secs. 1–5, 9–16, and 22–26; T. 10 S., R. 17 E.; T. 10 S., R. 18 E.; T. 10 S., R. 19 E.; T. 10 S., R. 20 E., secs. 3–36; T. 10 S., R. 21 E., secs. 18–21 and 28–34; T. 10 1/2 S., R. 21 E., secs. 31–33; T. 11 S., R. 17 E., secs. 1–5 and 8–15; T. 11 S., R. 18 E., secs. 1–24; T. 11 S., R. 19 E., secs. 1–26, 35, and 36; T. 11 S., R. 20 E., secs. 1–23 and 26–34; T. 11 S., R. 21 E., secs. 4–8; T. 12 S., R. 19 E., secs. 1, 2, 11–14, 23–26, 35, and 36; T. 12 S., R. 20 E., secs. 3–10, 15–22, and 27–34; T. 13 S., R. 19 E., secs. 1, 2, 11, 12, 22–27, and 34–36; T. 13 S., R. 20 E., secs. 3–10, 14–23, and 26–34.

MAP 5



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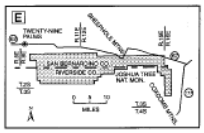
5. *Pinto Mountain Unit.* Riverside and San Bernardino Counties. From BLM Maps: Yucca Valley 1982, Sheep Hole Mountains 1978, Chuckwalla 1978, and Palm Springs #17 1978. (Index map location E).

San Bernardino Meridian: T. 1 S., R. 9 E., secs. 10–15, 24, 25, and 36; T. 1 S., R. 10 E., secs. 7–36; T. 1 S., R. 11 E., secs. 7–36; T. 1 S., R. 12 E., secs. 7–36 except sec. 12; T. 1 S., R. 13 E., secs. 13–36; T. 1 S., R. 14 E., secs. 13–32; T. 1 S., R. 15 E., secs. 13–30 and 36; T. 1 S., R. 16 E., secs. 18, 19, and 30–32; T. 2 S., R. 9 E., secs. 1, 12, and 13; T. 2 S., R. 10 E., secs. 1–24; T. 2 S., R. 11 E., secs. 1–24; T. 2 S., R. 12 E., secs. 1–22 except sec. 13; T. 2 S., R. 13 E., secs. 3–6; T. 2 S., R. 15 E., sec. 1; T. 2 S., R. 16 E., secs. 4–9, 16, 17, 20, 21, 28, 29, 32, and 33; T. 3 S., R. 16 E., secs. 4, 5, 8, and 9.

MAP 6



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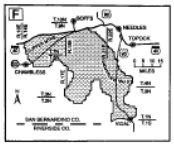
6. *Chemehuevi Unit.* San Bernardino County. From BLM Maps: Sheep Hole Mts. 1978, Parker 1979, Needles 1978, and Amboy 1991. (Index map location F).

San Bernardino Meridian: T. 1 S., R. 22 E., those portions of secs. 3–5 lying northwesterly of the Atchison Topeka and Santa Fe Railroad; T. 1 S., R. 23 E., those portions of secs. 1–3 lying northerly of the Atchison Topeka and Santa Fe Railroad except that portion of sec. 1 lying easterly of U.S. Hwy. 95; T. 1 N., R. 22 E., secs. 1–4, 9–16, 20–29, and 32–36 except those portions of secs. 34–36 lying southerly of the Atchison Topeka and Santa Fe Railroad; T. 1 N., R. 23 E., secs. 1–36 except those portions of secs. 31–34 lying southerly of Atchison Topeka and Santa Fe Railroad; T. 1 N., R. 24 E., secs. 4–9, 16–21, and 29–31; T. 2 N., R. 18 E., secs. 1–5, and 9–14; T. 2 N., R. 19 E., secs. 2–10, and 16–18; T. 2 N., R. 22 E., secs. 1–5, 8–16, 21–28, and 33–36; T. 2 N., R. 23 E., secs. 5–8, 17–21, and 26–36; T. 2 N., R. 24 E., secs. 31 and 32; T. 3 N., R. 17 E., secs. 12, 13, 24, and 25; T. 3 N., R. 18 E.; T. 3 N., R. 19 E., secs. 1–35; T. 3 N., R. 20 E., secs. 5–8, 18, and 19; T. 3 N., R. 21 E., secs. 1–5, 9–16, 23, and 24; T. 3 N., R. 22 E., secs. 1–36 except sec. 31; T. 3 N., R. 23 E., secs. 2–11, 14–22, and 28–32; T. 4 N., R. 18 E., secs. 1, 2, 10–15, 21–28, and 32–36; T. 4 N., R. 19 E.; T. 4 N., R. 20 E., secs. 1–12, 16–20, and 29–32; T. 4 N., R. 21 E., secs. 1–17, 20–29, and 32–36; T. 4 N., R. 22 E.; T. 4 N., R. 23 E., secs. 1–35; T. 4 N., R. 24 E., Secs 6, 7, 18, and 19; T. 5 N., R. 15 E., secs. 1–6; T. 5 N., R. 16 E., secs. 4–6; T. 5 N., R. 18 E., secs. 1–6, 8–17, 22–26, 35, and 36; T. 5 N., R. 19 E.; T. 5 N., R. 20 E.; T. 5 N., R. 21 E.; T. 5 N., R. 22 E., secs. 2–36; (Unsurveyed) T. 5 N., R. 23 E., protracted secs. 19, and 29–33; T. 6 N., R. 14 E., secs. 1–3, 10–15, and 23–25; T. 6 N., R. 15 E.; T. 6 N., R. 16 E., secs. 1–23, and 27–34; T. 6 N., R. 17 E., secs. 1–18, 22–26, and 36; T. 6 N., R. 18 E.; T. 6 N., R. 19 E.; T. 6 N., R. 20 E.; T. 6 N., R. 21 E.; T. 6 N., R. 22 E., secs. 3–10, 15–23, and 26–35; T. 7 N., R. 14 E., secs. 1–5, 8–17, 21–28, and 33–36; T. 7 N., R. 15 E.; T. 7 N., R. 16 E.; T. 7 N., R. 17 E.; T. 7 N., R. 18 E.; T. 7 N., R. 19 E.; T. 7 N., R. 20 E.; T. 7 N., R. 21 E.; T. 7 N., R. 22 E., secs. 18–20, and 28–34; T. 8 N., R. 14 E., secs. 13, 23–28, and 31–36 except those portions of secs. 13, 23, 24, 26, 27, 28, 31, 32, and 33 lying northwesterly of Interstate Hwy. 40; T. 8 N., R. 15 E., secs. 9–36 except those portions of secs. 9–12, 17, and 18 lying northwesterly of Interstate Hwy. 40; T. 8 N., R. 16 E., secs. 1, 2, and 7–36 except those portions of secs. 1, 2, and 7–10 and 11 lying northerly of Interstate Hwy. 40; T. 8 N., R. 17 E., secs. 1–36 except those portions of secs. 1–6 lying northerly of Interstate Hwy. 40; T. 8 N., R. 18 E., secs. 1–36 except that portion of sec. 6 lying northerly of Interstate Hwy. 40; T. 8 N., R. 19 E.; T. 8 N., R. 20 E.; T. 8 N., R. 21 E., secs. 7, 17–21, and 27–35; T. 9 N., R. 18 E., those portions of secs. 31–36 lying southerly of Interstate Hwy. 40; T. 9 N., R. 19 E., secs. 23–29 and 31–36 except those portions of secs. 23, 24, 26–29, 31, and 32 lying northerly of Interstate Hwy. 40; T. 9 N., R. 20 E., secs. 19, 20, and 29–33 except those portions of secs. 19 and 20 lying northerly of Interstate Hwy. 40 and S 1/2 S 1/2 sec. 27, SW 1/4 SW 1/4 sec. 26, and W 1/2 W 1/2 sec. 35.

MAP 7



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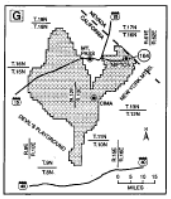
7. *Ivanpah Unit*. San Bernardino County. From BLM Maps: Amboy 1991, Ivanpah 1979, and Mesquite Lake 1990. (Index map location G).

San Bernardino Meridian: T. 9 N., R. 12 E., secs. 1, 2, 11–14, and 24; T. 9 N., R. 13 E., secs. 4–9, 16–21, and 28–30; T. 10 N., R. 12 E., secs. 25, 35, and 36; T. 10 N., R. 13 E., secs. 3–10, 16–21, and 28–33; T. 11 N., R. 12 E., secs. 1, 12, 13, 24, 25, and 36; T. 11 N., R. 13 E., secs. 1–12, 15–21, and 28–33; T. 11 N., R. 14 E., sec. 6; T. 12 N., R. 11 E., secs. 1–5 and 9–15; T. 12 N., R. 12 E., secs. 1–18, 21–27, 35, and 36; T. 12 N., R. 13 E.; T. 12 N., R. 14 E., secs. 4–9, 16–21, and 29–32; T. 13 N., R. 10 E., secs. 1–5, 10–14, 24, and 25; T. 13 N., R. 11 E.; T. 13 N., R. 12 E.; T. 13 N., R. 13 E.; T. 13 N., R. 14 E., secs. 3–9, 16–21, and 28–33; T. 14 N., R. 9 E., secs. 1, 12, 13, and 24; T. 14 N., R. 10 E.; (Unsurveyed) T. 14 N., R. 11 E., Protracted secs. 1–35; T. 14 N., R. 11 E., sec. 36; T. 14 N., R. 12 E.; T. 14 N., R. 13 E.; T. 14 N., R. 14 E., secs. 1–5, 8–17, and 19–35; T. 14 N., R. 15 E., secs. 1–12, and 14–22; T. 14 N., R. 16 E., sec. 6; T. 15 N., R. 9 E., secs. 24, 25, and 36; T. 15 N., R. 10 E., secs. 1–36 except sec. 6; T. 15 N., R. 11 E.; T. 15 N., R. 12 E.; T. 15 N., R. 13 E., secs. 3–11 and 14–36; T. 15 N., R. 14 E., secs. 12, 13, 23–28, and 33–36; T. 15 N., R. 15 E.; T. 15 N., R. 16 E., secs. 1–11, 14–22, and 28–33; T. 15 1/2 N., R. 14 E., secs. 24 and 25; T. 15 1/2 N., R. 15 E., secs. 19–36; T. 15 1/2 N., R. 16 E., secs. 19–35; T. 16 N., R. 10 E., secs. 25, 35, and 36; T. 16 N., R. 11 E.; T. 16 N., R. 12 E.; T. 16 N., R. 12 1/2 E., secs. 12, 13, 24, 25, and 36; T. 16 N., R. 13 E., secs. 7, 17–20, and 29–33; T. 16 N., R. 14 E., secs. 24, 25, 35, and 36 except those portions of secs. 24 and 35 lying northwesterly of Interstate Hwy. 15; T. 16 N., R. 15 E., secs. 1–3, 10–14, and 23–36; T. 16 N., R. 16 E., secs. 6–8, 16–22, and 26–36; T. 17 N., R. 11 E., secs. 1–5, 8–17, 20–29, and 31–36; T. 17 N., R. 12 E., secs. 3–10, 14–23, and 26–36; T. 18 N., R. 11 E., secs. 13, 14, 22–28, and 33–36; T. 18 N., R. 12 E., secs. 18–20, and 28–33.

MAP 8



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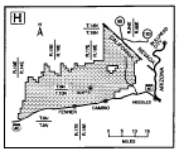
8. *Piute-Eldorado Unit*. San Bernardino County. From BLM Maps: Amboy 1991, Needles 1978, and Ivanpah 1979. (Index map location H).

San Bernardino Meridian: T. 8 N., R. 14 E., secs. 1–4, 8–17, 19–24, 26–30, 32, and 33 except those portions of secs. 13, 23, 24, 26–28, 32, and 33 lying southeasterly of Interstate Hwy. 40; T. 8 N., R. 15 E., secs. 1–12, 17, and 18 except those portions of secs. 1, 8–12, 17, and 18 lying southeasterly of Interstate Hwy. 40; T. 8 N., R. 16 E., secs. 1–10 except those portions of sections 1–3 and 6–10 lying southerly of Interstate Hwy. 40; T. 8 N., R. 17 E., those portions of secs. 1–6 lying northerly of Interstate Hwy. 40; T. 9 N., R. 14 E., secs. 1–3, 10–15, 22–28, and 33–36; T. 9 N., R. 15 E.; T. 9 N., R. 16 E.; T. 9 N., R. 17 E., secs. 1–36 except that portion of sec. 36 lying southerly of Interstate Hwy. 40; T. 9 N., R. 18 E., secs. 1–36 except those portions of secs. 31–36 lying southerly of Interstate Hwy. 40; T. 9 N., R. 19 E., secs. 1–24 and 26–32 except those portions of secs. 26–29, 31, and 32 lying southerly of Interstate Hwy. 40; T. 9 N., R. 20 E., secs. 3–8 and 17–20 except those portions of secs. 19 and 20 lying southerly of Interstate Hwy. 40; T. 10 N., R. 14 E., secs. 11–14, 22–27, and 34–36; T. 10 N., R. 15 E., secs. 1–3, 9–16, and 18–36; T. 10 N., R. 16 E.; T. 10 N., R. 17 E.; T. 10 N., R. 18 E.; T. 10 N., R. 19 E.; T. 10 N., R. 20 E.; T. 10 N., R. 21 E., secs. 3–10, 15–22, and 28–31; T. 11 N., R. 15 E., secs. 9, 15, 16, 21, 22, 25–29, and 33–36; T. 11 N., R. 16 E., secs. 9, 15, 16, 21–23, 25–28, 31, and 33–36; T. 11 N., R. 17 E., secs. 8, 12–17, and 19–36; T. 11 N., R. 18 E., secs. 1–4 and 7–36; T. 11 N., R. 19 E., secs. 1–13, 18, 19, 23–27, and 29–36; T. 11 N., R. 20 E., secs. 1–11, 14–23, and 26–35; T. 12 N., R. 19 E.; T. 12 N., R. 20 E., secs. 3–11 and 13–36; T. 12 N., R. 21 E., secs. 19, 30, and 31; T. 13 N., R. 19 E., secs. 3–11 and 13–36; T. 13 N., R. 20 E., secs. 19 and 29–33; T. 14 N., R. 19 E., secs. 19 and 29–33.

MAP 9



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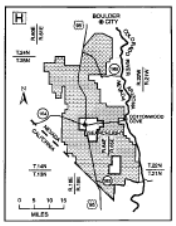
Nevada. Areas of land as follows:

9. *Piute-Eldorado Unit*. Clark County. From BLM Maps: Mesquite Lake 1990, Boulder City 1978, Ivanpah 1979, and Davis Dam 1979. (Index map location H).

Mt. Diablo Meridian: T. 23 S., R. 64 E., secs. 31–36 except that portion of sec. 31 lying northwesterly of the powerline and also except those portions of secs. 34–36 lying northeasterly of the powerline; T. 23 1/2 S., R. 64 E., secs. 31–36 except that portion of sec. 31 lying northwesterly of the powerline; T. 23 1/2 S., R. 65 E., that portion of sec. 31 lying southwesterly of the powerline; T. 24 S., R. 63 E., secs. 1, 2, 11–15, 22–28, and 33–36 except those portions of secs. 1, 2, 11, 14, and 15 lying northwesterly of the powerline and those portions of secs. 22, 27, 28, and 33 lying northwesterly of U.S. Hwy. 95; T. 24 S., R. 64 E.; T. 24 S., R. 65 E., secs. 6, 7, 18, 19, 30, and 31; T. 25 S., R. 61 E., secs. 13–15, E 1/2 sec. 16, E 1/2 sec. 21, secs. 22–27, E 1/2 sec. 28, secs. 35 and 36; T. 25 S., R. 62 E., secs. 4–9, and secs. 16–36; T. 25 S., R. 63 E., secs. 1–4, 9–16, and 19–36 except those portions of secs. 4, 9, and 16 lying northwesterly of U.S. Hwy. 95; T. 25 S., R. 64 E., secs. 1–35 except secs. 13, 24, and 25,; T. 25 S. R. 65 E., sec. 6; T. 26 S., R. 61 E., secs. 1, 2, 11–14, 24, 25, and 36; T. 26 S., R. 62 E., secs. 1–36 except secs. 28 and 33; T. 26 S., R. 63 E., secs. 2–36 except sec. 12; T. 26 S., R. 64 E., secs. 18–20, and 29–33; T. 27 S., R. 62 E., secs. 1–3, 5–8, 10–15, 22–26, 35, and 36; T. 27 S., R. 62 1/2 E., secs. 1, 12, 13, 24, 25, and 36; T. 27 S., R. 63 E.; T. 27 S., R. 64 E., secs. 4–9, 16–21, and 26–36; T. 27 S., R. 65 E., secs. 31–35; T. 28 S., R. 62 E., secs. 1–3, 9–16, 21–28, and 33–36; T. 28 S., R. 63 E., secs. 1–20, and 29–32; T. 28 S., R. 64 E., secs. 1–18, 21–26, 35, and 36; T. 28 S., R. 65 E., secs. 2–11, 14–21, and 28–35; T. 29 S., R. 62 E., secs. 1–4, 9–16, 21–28, 34, 35 and 36; T. 29 S., R. 63 E., secs. 5–10, 15–23, and 26–36; T. 29 S., R. 64 E., secs. 1–3, 9–16, 21–28, and 31–36; T. 29 S., R. 65 E., secs. 2–36 except secs. 12 and 13; T. 29 S., R. 66 E., secs. 30–32; T. 30 S., R. 62 E., secs. 1, 2, and 11–14; T. 30 S., R. 63 E., secs. 1–36 except secs. 30 and 31; T. 30 S., R. 64 E.; T. 30 S., R. 65 E., secs. 1–26, 30, 31, 35, and 36; T. 30 S., R. 66 E., secs. 4–9, 16–21, and 28–33; T. 31 S., R. 63 E., secs. 1–5, 8–16, 22–26, and 36; T. 31 S.,

R. 64 E.; T. 31 S., R. 65 E., secs. 1, 2, 6, 11–14, and 23–36 except that portion of sec. 36 lying southwesterly of State Hwy. 163; T. 31 S., R. 66 E., secs. 3–10, 15–22, and 27–34 except that portion of sec. 31 lying southwesterly of State Hwy. 163; T. 32 S., R. 64 E., secs. 1–6, 8–16, 22–26, and 36; T. 32 S., R. 65 E., secs. 1–12, 17–20, and 29–32 except those portions of secs. 1 and 9–12 lying southeasterly or easterly of State Hwy. 163; T. 32 S., R. 66 E., those portions of secs. 3–6 lying northerly of State Hwy. 163; T. 33 S., R. 65 E., sec. 5.

MAP 10



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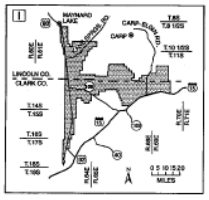
10. *Mormon Mesa Unit.* Clark and Lincoln Counties. From BLM Maps: Pahranagat 1978, Clover Mts. 1978, Overton 1978, Indian Springs 1979, Lake Mead 1979, and Las Vegas 1986. (Index map location I).

Mt. Diablo Meridian: T. 9 S., R. 62 E., secs. 13–15, 22–27, and 34–36 except those portions of secs. 15, 22, 27, and 34 lying westerly of the easterly boundary line of the Desert National Wildlife Range; T. 9 S., R. 63 E., secs. 18, 19, 30, and 31; T. 10 S., R. 62 E., secs. 1, 2, 11–14, 23–25, and 36 except those portions of secs. 14, 23, 35, and 36 lying westerly of the easterly boundary line of the Desert National Wildlife Range; T. 10 S., R. 63 E., secs. 6, 7, 13–15, 18–20, and 22–36; T. 10 S., R. 64 E., secs. 13–24 and 26–34; T. 10 S., R. 65 E., secs. 18, and 19; T. 11 S., R. 62 E., that portion of sec. 1 lying easterly of the easterly boundary line of the Desert National Wildlife Range; T. 11 S., R. 63 E.; T. 11 S., R. 64 E., secs. 4–9, 17–20, 30, and 31; T. 11 S., R. 66 E., secs. 31–36; T. 12 S., R. 63 E.; T. 12 S., R. 64 E., secs. 6, 7, and 25–36; T. 12 S., R. 65 E., secs. 1, 12, 13, and 24–36 except those portions of secs. 1, 2, 13, and 24 lying westerly of Union Pacific Railroad; T. 12 S., R. 66 E.; T. 12 S., R. 67 E., secs. 6–8, 16–22, and 27–33; T. 12 S., R. 68 E., secs. 23–29 and 31–36; T. 12 S., R. 69 E., secs. 1–5, 8–17, and 19–36; T. 12 1/2 S., R. 62 E., that portion of sec. 36 lying easterly of the easterly boundary line of the Desert National Wildlife Range; T. 13 S., R. 62 E., those portions of secs. 1, 12, 13, 24, and 25 lying easterly of the easterly line of the Desert National Wildlife Range; T. 13 S., R. 63 E.; T. 13 S., R. 64 E.; T. 13 S., R. 65 E., secs. 1–24, N 1/2 26, N 1/2 27, N 1/2 and SW 1/4 sec. 28, 29–32, and W 1/2 33; T. 13 S., R. 66 E., secs. 1–26, W 1/2 sec. 27, 35, and 36; T. 13 S., R. 67 E.; T. 13 S., R. 68 E., secs. 1–36 except those portions of secs. 25 and 33–36 lying southeasterly of Interstate Hwy. 15; T. 13 S., R. 69 E., secs. 1–30 except those portions of secs. 25–30 lying southerly of Interstate Hwy. 15; T. 13 S., R. 70 E., secs. 6, 7, 18, 19, 30, and 31 except those portions of secs. 30 and 31 lying southerly of Interstate Hwy. 15; T. 13 1/2 S., R. 63 E., secs. 31–36; T. 13 1/2 S., R. 64 E., secs. 31–36 except that portion of sec. 36 lying southwesterly of State Hwy. 168; T. 14 S., R. 63 E., secs. 1–23, and 26–35; T. 14 S., R. 64 E., secs. 2–6, 8–11, 15, and 16; T. 14 S., R. 66 E., secs. 1, E 1/2 sec. 2, 12, E 1/2 sec. 13, and E 1/2 sec. 24; T. 14 S., R. 67 E., secs. 1–12 and 14–22 except those portions of secs. 12, 14, 15, 21, and 22 lying southerly of Interstate Hwy. 15; T. 14 S., R. 68 E., those portions of secs. 4–7 lying northwesterly of Interstate Hwy. 15; T. 15 S., R. 63 E., secs. 2–11, 14–22, and 27–34; T. 16 S., R. 63 E., secs. 3–10, 15–22, and 28–33; T. 17 S., R. 63 E., secs. 7–9, 16–21, and 28–32 except those portions of secs. 29 and 32 lying easterly of the westerly boundary line of the Apex Disposal Road; T. 18 S., R. 63 E., secs. 5–8, 17–19, and 29–31 except those portions of secs. 5, 8, 17–19, and 29–31 lying easterly of the westerly boundary line of the Apex Disposal Road and that portion of sec. 31 lying westerly of the easterly boundary line of Desert National Wildlife Range.

MAP 11



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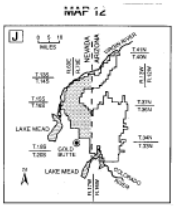
11. *Gold Butte-Pakoon Unit.* Clark County. From BLM Maps: Overton 1978 and Lake Mead 1979. (Index map location J).

Mt. Diablo Meridian: T. 13 S., R. 71 E., secs. 32–34; T. 14 S., R. 69 E., secs. 24–26, and 34–36; T. 14 S., R. 70 E., secs. 1, and 10–36; T. 14 S., R. 71 E., secs. 3–10, 15–22, and 27–34; T. 15 S., R. 69 E., secs. 1–3, 9–16, 21–28, and 33–36; T. 15 S., R. 70 E., secs. 2–11, 15–22, and 28–33; T. 16 S., R. 69 E., secs. 1–36 except secs. 6, 7, and 29–32; T. 16 S., R. 70 E., secs. 4–36 except sec. 12; T. 16 S., R. 71 E., secs. 19, and 29–32; T. 17 S., R. 69 E., secs. 1–3, 11–14, 24, 25, and 36; T. 17 S., R. 70 E.; T. 17 S., R. 71 E., secs. 4–10, 15–22, and 27–34; T. 18 S., R. 69 E., sec. 1; T. 18 S., R. 70 E., secs. 1–6, 10–15, 22–27, and 34–36; T. 18 S., R. 71 E., secs. 3–10, 15–22, and 27–34; T. 19 S., R. 71 E., secs. 3, 4, 9, 10, 15, 16, 21, 22, 27, 28, 33 and 34; T. 20 S., R. 71 E., secs. 3 and 4.

MAP 12



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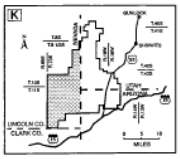
12. *Beaver Dam Slope Unit.* Lincoln County. From BLM Maps: Clover Mountains 1978 and Overton 1978. (Index map location K).

Mt. Diablo Meridian: T. 8 1/2 S., R. 71 E., that portion of sec. 34 lying south of a westerly extension of the

north line of sec. 26, T. 41 S., R. 20 W. (Salt Lake Meridian), Washington County, Utah; T. 9 S., R. 71 E., secs. 3, 10, 15–17, 20–22, 27–29, and 32–34; T. 10 S., R. 70 E., secs. 19–36; T. 10 S., R. 71 E., secs. 3–5, 7–10, 15–22, and 27–34; T. 11 S., R. 70 E.; T. 11 S., R. 71 E., secs. 3–10, 15–22, and 27–34; T. 12 S., R. 70 E., secs. 1–12, 14–23, and 28–33; T. 12 S., R. 71 E., secs. 3–10.

MAP 13



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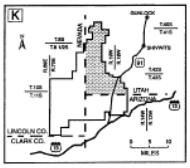
Utah. Areas of land as follows:

13. *Beaver Dam Slope Unit.* Washington County. From BLM Maps: St. George 1980 and Clover Mts. 1978. (Index map location K).

Salt Lake Meridian: T. 40 S., R. 19 W., S 1/2 sec. 28, S 1/2 sec. 29, S 1/2 sec. 31, secs. 32 and 33; T. 41 S., R. 19 W., S 1/2 sec. 2, S 1/2 sec. 3, secs. 4, 5, 6, E 1/2 sec. 7, secs. 8–11, 15–17, E 1/2 sec. 18, and secs. 19–22, and 28–33; T. 41 S., R. 20 W., E 1/2 sec. 1, secs. 24–26, 35, and 36; T. 42 S., R. 19 W., secs. 4–9, 16–22, and 27–34; T. 42 S., R. 20 W., secs. 1, 2, 11–14, 23–26, 35, and 36; T. 43 S., R. 18 W., secs. 7, 8, S 1/2 sec. 16, secs. 17–21, and 27–34; T. 43 S., R. 19 W., secs. 1–36 except N 1/2 sec. 1; T. 43 S., R. 20 W., secs. 1, 2, 11–14, 23–26, 35, and 36.

MAP 14



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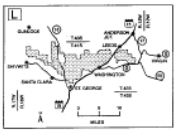
14. *Upper Virgin River Unit.* Washington County. From BLM Map: St. George 1980. (Index map location L).

Salt Lake Meridian: T. 41 S., R. 13 W., secs. 17–21 except NW 1/4 NW 1/4 sec. 18, also W 1/2 and W 1/2 E 1/2 sec. 27, sec. 28 except that portion lying westerly of Gould Wash, N 1/2 sec. 29, N 1/2 sec. 30, N 1/2 N 1/2 sec. 33 except that portion lying westerly of Gould Wash, and N 1/2 NW 1/4 and NW 1/4 NE 1/4 sec. 34; T. 41 S., R. 14 W., S 1/2 S 1/2 and NE 1/4 SE 1/4 and SE 1/4 NE 1/4 sec. 13, that portion of sec. 14 lying westerly of Red Cliff Road, secs. 15–17 except N 1/2 NW 1/4 and SW 1/4 NW 1/4 sec. 17, secs. 19–22, that portion of sec. 23 lying westerly of Red Cliff Road and westerly of Interstate Hwy. 15, sec. 24, E 1/2 and N 1/2 SE 1/4 and SW 1/4 SE 1/4 sec. 25, and those portions of secs. 26, 27, and 32–34 lying northwesterly of Interstate Hwy. 15; T. 41 S., R. 15 W., secs. 14, 19, 20, and 22–36; T. 41 S., R. 16 W., secs. 4, 9, 10, S 1/2 sec. 14, 15–16, 19, 21, W 1/2 sec. 22, secs. 24–25 except W 1/2 SW 1/4 sec. 24 and W 1/2 NW 1/4 and NW 1/4 SW 1/4 sec. 25, and W 1/2 W 1/2 sec. 25, SW 1/4 NE 1/4 and NW 1/4 NW 1/4 and S 1/2 NW 1/4 and SW 1/4 and W 1/2 SE 1/4 sec. 27, E 1/2 and E 1/2 W 1/2 and NW 1/4 NW 1/4 and SW 1/4 SW 1/4 sec. 28, N 1/2 and SE 1/4 and E 1/2 SW 1/4 sec. 30, NE 1/4 sec. 31, N 1/2 sec. 32, N 1/2 and SE 1/4 and N 1/2 SW 1/4 sec. 33, sec. 34, SE 1/4 SE 1/4 and that portion of sec. 35 lying westerly of State Hwy. 18, and sec. 36; T. 41 S., R. 17 W., secs. 9, 14–16, NE 1/4 sec. 21, N 1/2 sec. 22, NW 1/4 and E 1/2 sec. 23, sec. 24, and NE 1/4 sec. 25; T. 42 S., R. 14 W., those portions of secs. 5 and 6 lying northwesterly of Interstate Hwy. 15; T. 42 S., R. 15 W., sec. 1, N 1/2 and N 1/2 S 1/2 sec. 2, NE 1/4 and W 1/2 sec. 3, secs. 4–9, W 1/2 W 1/2 sec. 10, N 1/2 N 1/2 sec. 12, secs. 16–18, N 1/2 and N 1/2 SE 1/4 and NE 1/4 SW 1/4 sec. 19, and W 1/2 NW 1/4 and NW 1/4 SW 1/4 sec. 20, except those portions of secs. 1 and 12 lying southeasterly of Interstate Hwy. 15; T. 42 S., R. 16 W., secs. 1–2, NW 1/4 and E 1/2 sec. 3, NE 1/4 NE 1/4 sec. 4, NE 1/4 sec. 10, NW 1/4 and E 1/2 sec. 11–12, E 1/2 and NW 1/4 and N 1/2 SW 1/4 sec. 13 except that portion lying westerly of State Hwy. 18, and N 1/2 NE 1/4 sec. 24.

MAP 15



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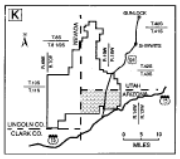
Arizona. Areas of land as follows:

15. *Beaver Dam Slope Unit.* Mohave County. From BLM Maps: Overton 1978 and Littlefield 1987. (Index map location K).

Gila and Salt River Meridian: T. 41 N., R. 14 W., secs. 6, 7, 18, and 19; T. 41 N., R. 15 W., secs. 1–24, 26–28, 30, and 31; T. 41 N., R. 16 W., secs. 1–5, 8–17, 20–29, and 32–36; T. 42 N., R. 14 W., sec. 31; T. 42 N., R. 15 W., secs. 31–36; T. 42 N., R. 16 W., secs. 32–36.

MAP 16



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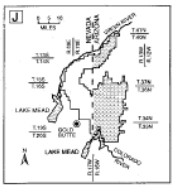
16. *Gold Butte-Pakoon Unit.* Mohave County. From BLM Maps: Overton 1978, Littlefield 1987, Mount Trumbull 1986, and Lake Mead 1979. (Index map location J).

Gila and Salt River Meridian: T. 32 N., R. 15 W., secs. 1–18 except those portions of secs. 13–18 lying south of the Lake Mead National Recreation area boundary line; T. 32 N., R. 16 W., secs. 1, 2, 12, and 13; T. 32 1/2 N., R. 15 W., secs. 31–36; T. 32 1/2 N., R. 16 W., secs. 35 and 36; T. 33 N., R. 14 W., secs. 4–8, 18, 19, and 28–31; T. 33 N., R. 15 W.; T. 33 N., R. 16 W., secs. 1–14, 17–20, 23–26, 29–32, 35, and 36; T. 34 N., R. 14 W., secs. 4–9, 17–19, 30, 31, 33, and 34; T. 34 N., R. 15 W.; T. 34 N., R. 16 W.; T. 35 N., R. 14 W., secs. 3–9, 16–22, and 28–35 ; T. 35 N., R. 15 W.; T. 35 N., R. 16 W.; T. 36 N., R. 14 W., secs. 2–11, 14–22, and 27–34; T. 36 N., R. 15 W.; T. 36 N., R. 16 W., secs. 1–36 except secs. 4–9; T. 37 N., R. 14 W., secs. 15, 22, 27, 31, and 33–35; T. 37 N., R. 15 W., secs. 5, 8, 17–22, and 27–36; T. 37 N., R. 16 W., sec. 35; T. 38 N., R. 15 W., sec. 6; T. 38 N., R. 16 W., secs. 1–12 and 14–22; T. 39 N., R. 15 W., secs. 2–10, 16–21, and 29–32; T. 39 N., R. 16 W., secs. 1, 12, 13, 20, 23–29, and 32–36; T. 40 N., R. 14 W., sec. 6; T. 40 N., R. 15 W., secs. 1, 10–15, and 21–36.

MAP 17



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Primary constituent elements: Desert lands that are used or potentially used by the desert tortoise for nesting, sheltering, foraging, dispersal, or gene flow.

Hawksbill Sea Turtle (Eretmochelys imbricata)

Puerto Rico: (1) Isla Mona. All areas of beachfront on the west, south, and east sides of the island from mean high tide inland to a point 150 meters from shore. This includes all 7.2 kilometers of beaches on Isla Mona. (2) Culebra Island. The following areas of beachfront on the north shore of the island from mean high tide inland to a point 150 meters from shore: Playa Resaca, Playa Brava, and Playa Larga. (3) Cayo Norte. South beach, from mean high tide inland to a point 150 meters from shore. (4) Isla Culebrita. All beachfront areas on the southwest facing shore, east facing shore, and northwest facing shore of the island from mean high tide inland to a point 150 meters from shore.

Note:

Maps follow.

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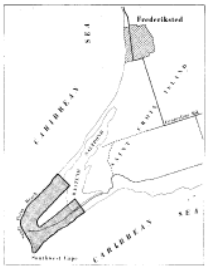
Leatherback Sea Turtle (Dermochelys coriacea)

U.S. Virgin Islands—A strip of land 0.2 mile wide (from mean high tide inland) at Sandy Point Beach on the western end of the island of St. Croix beginning at the southwest cape to the south and running 1.2 miles northwest and then northeast along the western and northern shoreline, and from the southwest cape 0.7 mile east along the southern shoreline.

Note:

Map follows:



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Plymouth Red-Bellied Turtle (Chrysemys rubriventris bangsi)

Massachusetts (Plymouth County).

An area including Briggs Reservoir, Cooks Pond, Little South Pond, South Triangle Pond, Great South Pond, Powderhorn Pond, Boat Pond, Hoyte Pond, Gunners Exchange Pond, Crooked Pond and Island Pond as follows: Beginning at the intersection of the centerline of the right-of-way of the Boston Edison and New Bedford Gas and Edison Light Company transmission lines and the westerly right-of-way line of Long Pond Road, thence southeasterly, along the westerly right-of-way line of Long Pond Road, 10,370 feet to the intersection of the said right-of-way line and the boundary line of the Myles Standish State Forest; thence southerly and westerly, along the boundary line of the Myles Standish State Forest, crossing and re-crossing Snake Hill Road, 11,200 feet, more or less; thence westerly, leaving the boundary line of the State Forest, 1,550 feet, more or less, to the boundary line of the Myles Standish State Forest; thence westerly, along the boundary line of the Myles Standish State Forest, 9,180 feet, more or less, to the intersection of the boundary of the said State Forest and the easterly right-of-way line of the Algonquin Gas Transmission Company pipeline; thence northerly, along the easterly right-of-way line of the said pipeline, 6,223 feet, more or less, to the intersection of the easterly right-of-way line of the said pipeline and the northerly right-of-way line of Kings Pond Plain Road; thence northeasterly, along the northerly right-of-way line of said road 3,100 feet to a point; thence northerly, 800 feet, more or less, to the southerly right-of-way line of the Boston Edison and new Bedford Gas and Edison Light Company transmission lines; thence northwesterly, along the southerly right-of-way base of the said transmission lines, 4,150 feet, more or less, to the intersection of the southerly right-of-way line of the said transmission lines and the easterly right-of-way line of the Algonquin Gas Transmission Company pipeline; thence northerly, along the easterly right-of-way line of the said pipeline, 2,500 feet, more or less, to the intersection of the easterly right-of-way line of the said pipeline and the southerly right-of-way line of Black Cat Road; thence southeasterly, along the southerly right-of-way line of said road, crossing South Pond Road and continuing southeasterly, along the southerly right-of-way line of an unnamed road, 10,370 feet, more or less, to a point; thence southerly 2,300 feet, more or less, to the northerly right-of-way line of the Boston Edison and New Bedford Gas and Edison Light Company transmission lines, thence easterly, along the northerly right-of-way line of the said transmission lines, 1,300 feet, more or less, to the intersection of the northerly right-of-way line of the said transmission lines and the westerly right-of-way line of Long Pond Road; thence southerly, along the westerly right-of-way line of said road, 100 feet, more or less, the place of beginning.

Note:

Map follows:

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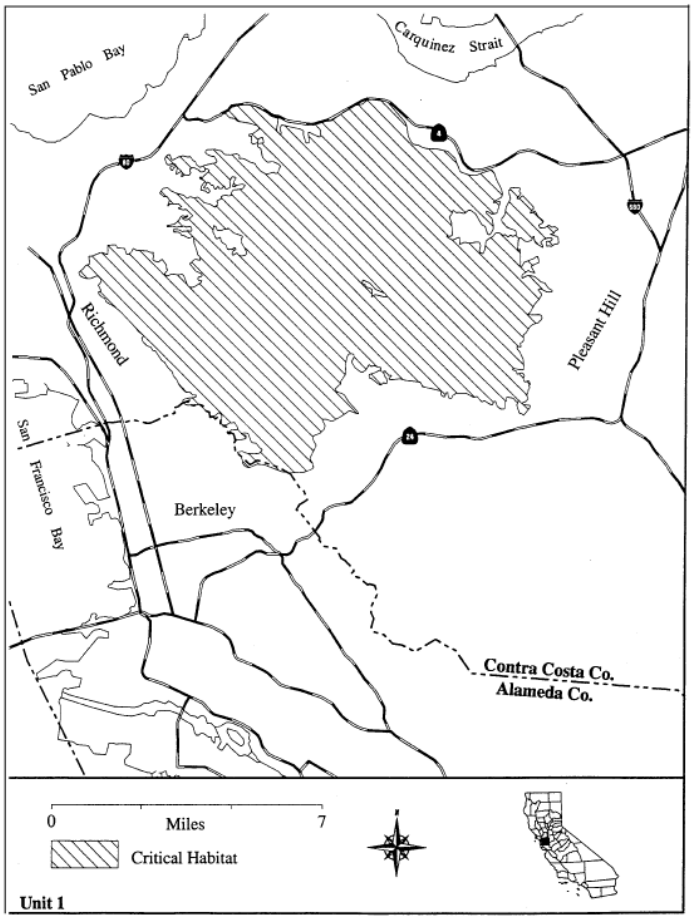
Alameda Whipsnake (Masticophis lateralis euryxanthus)

1. Critical habitat units are depicted for Alameda, Contra Costa, San Joaquin, and Santa Clara Counties, California, on the maps below.

2. Within these areas, the primary constituent elements are those habitat components that are essential for the primary biological needs of foraging, sheltering, breeding, maturation, and dispersal. The primary constituent elements are in areas that support scrub communities including mixed chaparral, chamise-redshank chaparral, and coastal scrub and annual grassland and various oak woodlands that lie adjacent to scrub habitats. In addition, the primary constituent elements for the Alameda whipsnake may be found in grasslands and various oak woodlands that are linked to scrub habitats by substantial rock outcrops or riparian corridors. Other habitat features that provide a source of cover for the whipsnake during dispersal or lie in reasonable proximity to scrub habitats and contain habitat features (e.g., rock outcrops) that support adequate prey populations may also contain primary constituent elements for the Alameda whipsnake.

3. Critical habitat does not include existing features and structures, such as buildings, roads, railroads, large water bodies, and similar features and structures not containing one or more of the primary constituent elements.



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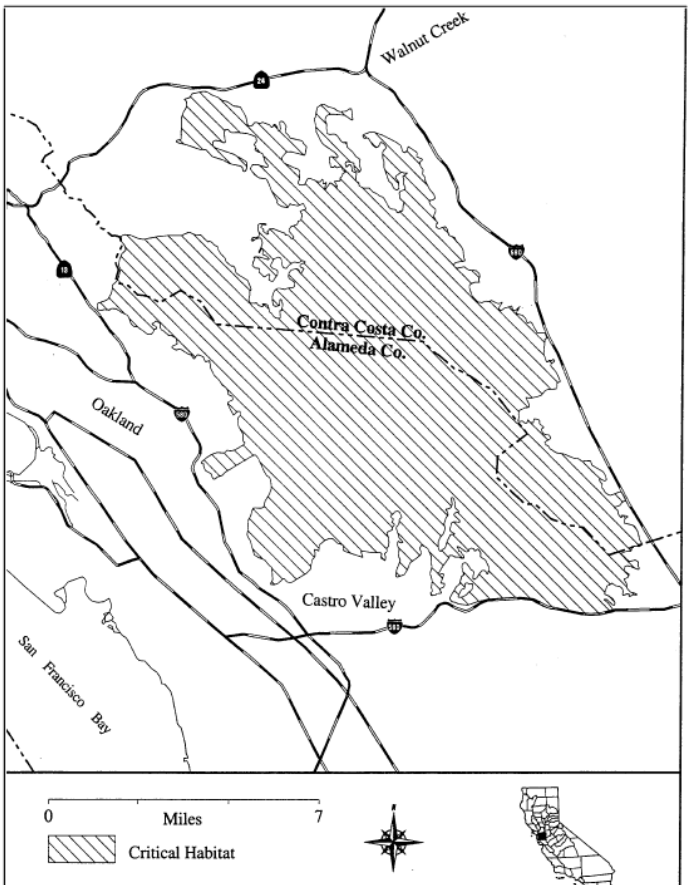
Map Unit 1: Contra Costa County, California. From 1992 Orthophoto quads, Mount Diablo Base Meridian, California: T. 2 N., R. 4 W., S 1/2 sec. 13, SE 1/4 sec. 23, N 1/2 SE 1/4 sec. 24, sec. 25, N 1/2 SE 1/4 sec. 26, E 1/2 sec. 27, E 1/2 sec. 34 secs. 35–36; T. 2 N., R. 3 W., S 1/2 sec. 15, S 1/2 sec. 16, SW 1/4 sec. 18, secs. 19–22, S 1/2 NW 1/4 sec., 23, SW 1/4 sec. 24, secs. 25–36; T. 2 N., R. 2 W., S 1/2 sec. 30, sec. 31, SW 1/4 sec. 32; T. 1 N., R. 4 W., secs. 1–2, S 1/2 sec. 3, sec. 4, SE 1/4 sec. 5, N 1/2 SE 1/4 sec. 8, secs. 9–15, N 1/2 sec. 16, N 1/2 SE 1/4 sec. 21, secs. 22–26, NE 1/4 sec. 27, N 1/2 SE 1/4 sec. 36; T. 1 N., R. 3 W., secs. 1–24, N 1/2 sec. 25, N 1/2 sec. 26, N 1/2 sec. 27, S 1/2 NW 1/4 sec. 28, secs. 29–32; T. 1. N., R. 2 W., secs. 5–7, S 1/2 NW 1/4 sec. 8, W 1/2 sec. 17, secs. 18–19, W 1/2 sec. 29; sec. 30; T. 1. S., R. 3 W., N 1/2 sec. 5, N 1/2 sec. 6.



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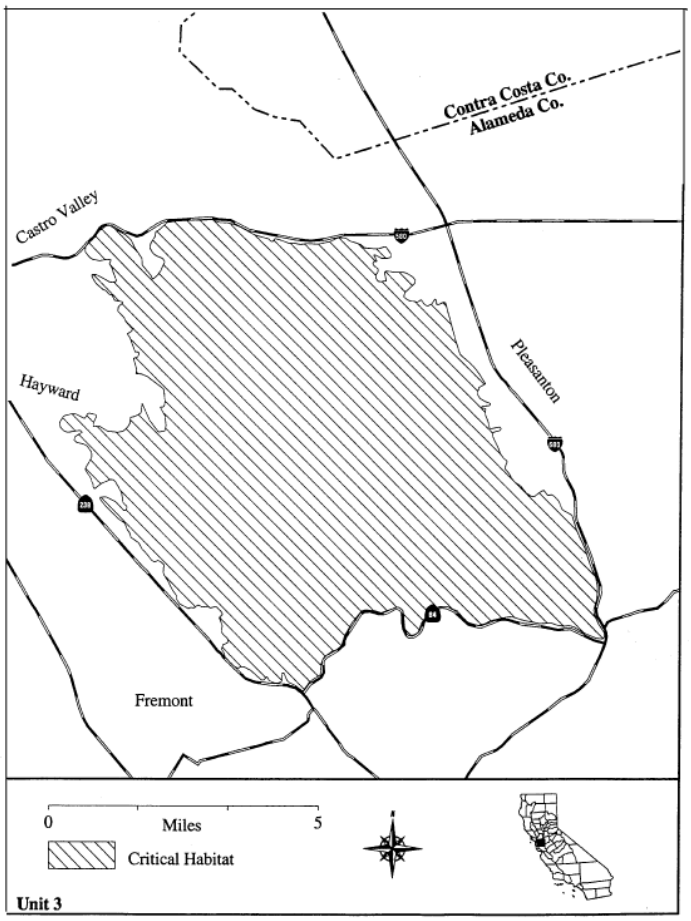
Map Unit 2: Alameda and Contra Costa Counties, California. From 1992 Orthophoto quads, Mount Diablo Base Meridian, California: T. 1 N., R. 3 W., SE 1/4 sec. 35, S 1/2 NW 1/4 sec. 36; T. 1. N., R. 2 W., SW 1/4 sec. 31, S 1/2 sec. 33, SW 1/4 sec. 34; T. 1 S., R. 3 W., sec. 1, E 1/2 sec. 2, NE 1/4 sec. 12, SW 1/2 sec. 13, S 1/2 sec. 14, S 1/2 sec. 15, secs. 22–27, SE 1/4 sec. 28, NE 1/4 sec. 34, N 1/2 SE 1/4 sec. 35, sec. 36; T. 1 S., R. 2 W., S 1/2 sec. 2, secs. 3–6, N 1/2 SE 1/4 sec. 7, secs. 8–11, SW 1/4 sec. 12, S 1/2 NW sec. 13, secs. 14–17, SE 1/4 sec. 18, S 1/2 NE 1/4 sec. 19, secs, 20–36; T.1 S., R. 1 W., SW 1/4 sec. 19, SW 1/4 sec. 29, S 1/2 NW 1/4 sec. 30, secs. 31–32; T. 2 S., R. 3 W., N 1/2 SE 1/4 sec. 1, NE 1/4 sec. 12, S 1/2 sec. 13, N 1/2 sec. 24; T. 2 S., R. 2 .W., secs. 1–18, E 1/2 sec. 19, secs. 20–30, N 1/2 SE 1/4 sec. 31, sec. 32, N 1/2 sec. 33, N 1/2 sec. 34, N 1/2 SW 1/4 sec. 35, sec. 36; T. 2 S., R. 1 W., W 1/4 sec. 4, secs. 5–6, S 1/2 sec. 16, secs. 17–21, S 1/2 NW 1/4 sec. 22, W 1/2 sec. 26, secs. 27–34, W 1/2 sec. 35; T. 3 S., R. 1 W., NW 1/4 sec. 2, secs. 3–4, N 1/2 SE 1/4 sec. 5, N 1/2 sec. 6; T. 3 S., R. 2 W., N 1/2 sec. 1.



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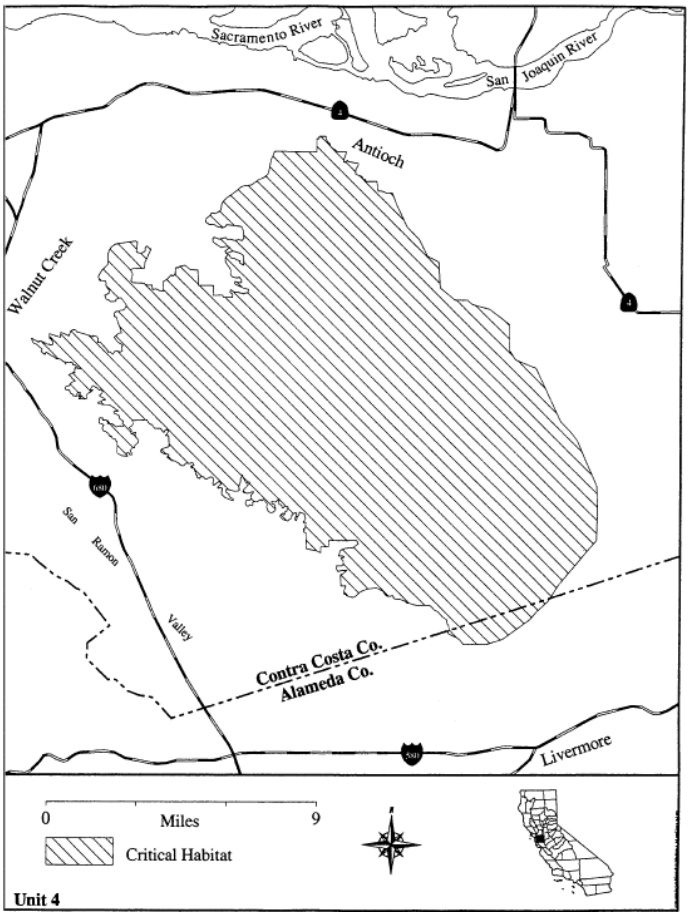
Map Unit 3: Alameda County, California. From 1992 Orthophoto quads, Mount Diablo Base Meridian, California: T. 3 S., R. 2 W., sec. 1, sec. 12, E 1/2 sec. 13, SW 1/4 sec. 24, sec. 25, NE 1/4 sec. 26, secs. 35–36; T. 3 S., R. 1 W., SW 1/4 sec. 2, S 1/2 sec. 3, S 1/2 sec. 4, S 1/2 NW 1/4 sec. 5, S 1/2 NE 1/4 sec. 6, secs. 7–11, SW 1/4 sec. 12, secs. 13–36; T. 3 S., R. 1 E., W 1/2 sec. 19, S 1/2 NW 1/4 sec. 30, sec. 31, S 1/2 sec. 32; T. 4 S., R. 2 W., NE 1/4 sec. 1; T. 4 S., R. 1 W., secs. 1–6, NE 1/4 sec. 7, secs. 8–12, NE 1/4 sec. 14, N 1/2 SW 1/4 sec. 15, sec. 16, N 1/2 SE 1/4 sec. 17, NE 1/4 sec. 21; T. 4 S., R. 1 E., W 1/2 sec. 4, secs. 5–8, W 1/2 sec. 9, NW 1/4 sec. 16.



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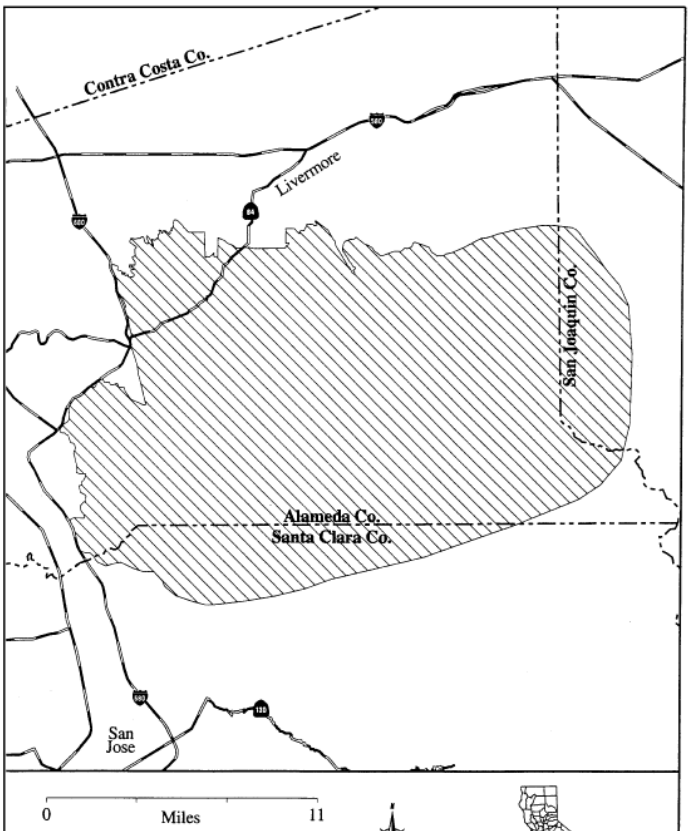
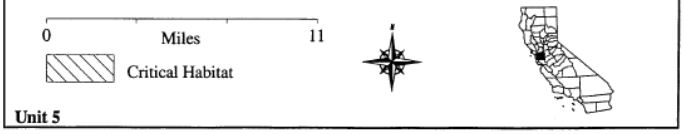
Map Unit 4: Alameda and Contra Costa Counties, California. From 1992 Orthophoto quads, Mount Diablo Base Meridian, California: T. 2 N., R. 1 W., SE 1/4 sec. 36; T. 2 N., R. 1 E., S 1/2 NW 1/4 sec. 27, S 1/2 NE 1/4 sec. 28, S 1/2 sec. 29, SE 1/4 sec. 30, S 1/2 NE 1/4 sec. 31, secs. 32–34, S 1/2 sec. 35; T. 1 N., R 2 W., S 1/2 sec. 25, SE 1/4 sec. 26, N 1/2 sec. 36; T. 1 N., R. 1 W., sec. 1, SE 1/4 sec. 2, SE 1/4 sec. 8, S 1/2 sec. 9, sec. 12, N 1/2 SE 1/4 sec.13, W 1/2 sec. 14, S 1/2 NE 1/4 sec. 15, sec. 17, N/12 SE 1/4 sec. 20, secs. 21–28, E 1/2 SW 1/4 sec. 29, S 1/2 sec. 30, sec. 31, secs. 32–36; T. 1 N., R. 1. E., W 1/2 sec. 1, secs. 2–11, sec. 12, secs. 13–36; T. 1 N., R. 2 E., SW 1/4 sec. 7, W 1/2 sec. 18, sec. 19, S 1/2 sec. 20, SW 1/4 sec. 21, secs. 28–33, S 1/2 sec. 34; T.1 S., R. 1 W., secs. 1–5, N 1/2 SE 1/4 sec. 6, sec. 8, N 1/2 SW 1/4 sec. 9, secs. 10–15, NW 1/4 sec. 16, NE 1/4 sec. 17, N 1/2 SE 1/4 sec. 23, sec. 24, N 1/2 sec. 25; T. 1 S., R. 1 E., secs. 1–29, N 1/2 sec. 30, NE 1/4 sec. 32, sec. 33–36; T. 1 S., R. 2 E., SW 1/4 sec. 2, secs. 3–10, S 1/2 NW 1/4 sec. 11, W 1/2 sec. 13, secs. 14–36; T. 2 S., R. 1 E., secs. 1–3, N 1/2 sec. 10, N 1/2 sec. 11, sec. 12; T. 2 S., R. 2 E., NW 1/4 sec. 1, secs. 2–10, W 1/2 sec. 11, N 1/2 sec. 15, sec. 16–17, E 1/2 sec. 18.





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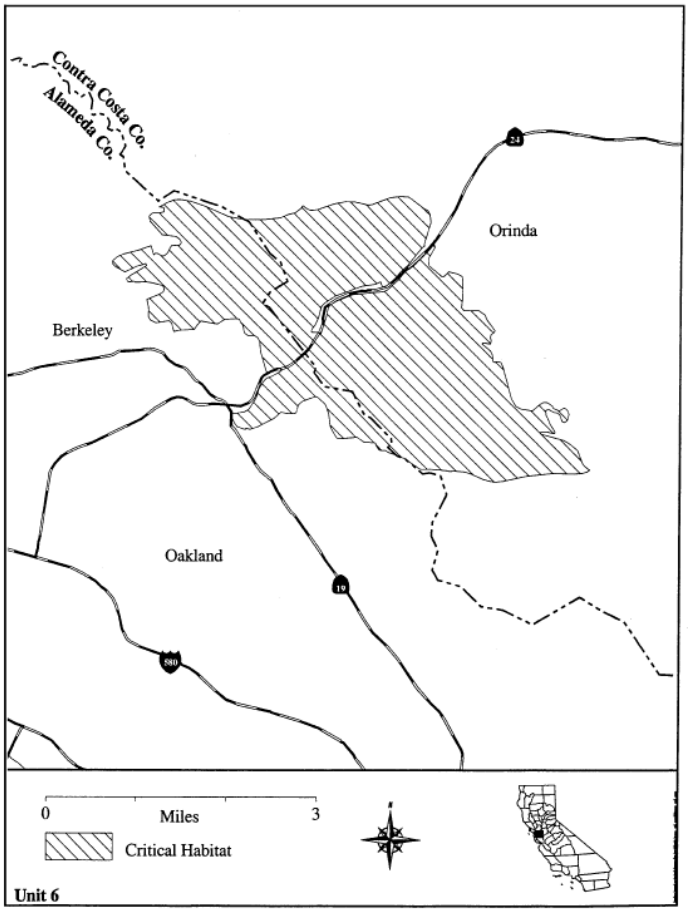
Map Unit 5: Alameda, Contra Costa, San Joaquin, and Santa Clara Counties, California. From 1992 Orthophoto quads, Mount Diablo Base Meridian, California: T. 3 N., R. 1 E., SE 1/4 sec. 21, S 1/2 sec. 22, S 1/2 NW 1/4 sec. 23, SW 1/4 sec. 24, S 1/2 NW 1/4 sec. 25, secs. 26– 27, E 1/2 sec. 28, SE 1/4 sec. 29, NE 1/4 sec. 32, secs. 33–36; T. 3 S., R. 2 E., SW 1/4 sec. 19, SE 1/4 sec. 21, S 1/2 NE 1/4 sec. 22, S 1/2 NW 1/4 sec. 23, SE 1/4 sec. 24, secs. 25–36; T. 3 S., R. 3 E., S 1/2 sec. 24, secs. 25–26, S 1/2 NE 1/4 sec. 27, S 1/2 NW 1/4 sec. 28, S 1/2 NE 1/4 sec. 29, S 1/2 NW 1/4 sec. 30, secs. 31–36; T. 3 S., R. 4 E., S 1/2 sec. 19, S 1/2 sec. 20, S 1/2 sec. 21, SW 1/4 sec. 27, secs. 28–33, S 1/2 NW 1/4 sec. 34; T. 4 S., R. 1 W., E 1/2 sec. 25, E 1/2 sec. 36; T. 4 S, R. 1 E., secs. 1–4, E 1/2 sec. 9, secs. 10–15, E 1/2 sec. 16, SE 1/4 sec. 19, S 1/2 sec. 20, S 1/2 NE 1/4 sec. 21, secs. 22–36; T. 4 S., R. 2 E., secs. 1–36; T. 4 S., R. 3 E., secs. 1–36; T. 4 S., R. 4 E., W 1/2 sec. 2, secs. 3–10, W 1/2 sec. 11, W 1/2 sec. 11, W 1/2 sec. 14, secs. 15–22,W 1/2 sec. 23, W 1/2 sec. 26, secs. 27–34, W 1/2 sec. 35; T. 5 S., R. 1 E., secs. 1–29, N 1/2 SE 1/4 sec. 30, N 1/2 sec. 33, N 1/2 SE 1/4 sec. 34, secs. 35–36; T. 5 S., R. 2 E., secs. 1–35, N 1/2 SW 1/4 sec. 36; T. 5 S., R. 3 E., secs. 1–24, N 1/2 sec. 26, N 1/2 SW 1/4 sec. 27, secs. 28–30, N 1/2 sec. 31, N 1/2 sec. 32; T. 5. S., R. 4 E., W 1/2 sec. 2, secs. 3–9, N 1/2 SW 1/4 sec. 10, N 1/2 SW 1/4 sec. 16, secs. 17–18, N 1/2 sec. 19; T. 6 S., R. 1 E., sec. 1, N 1/2 sec. 2; T. 6 S., R. 2 E., N 1/2 sec. 3, N 1/2 sec. 4, N 1/2 sec. 5, N 1/2 sec.6.



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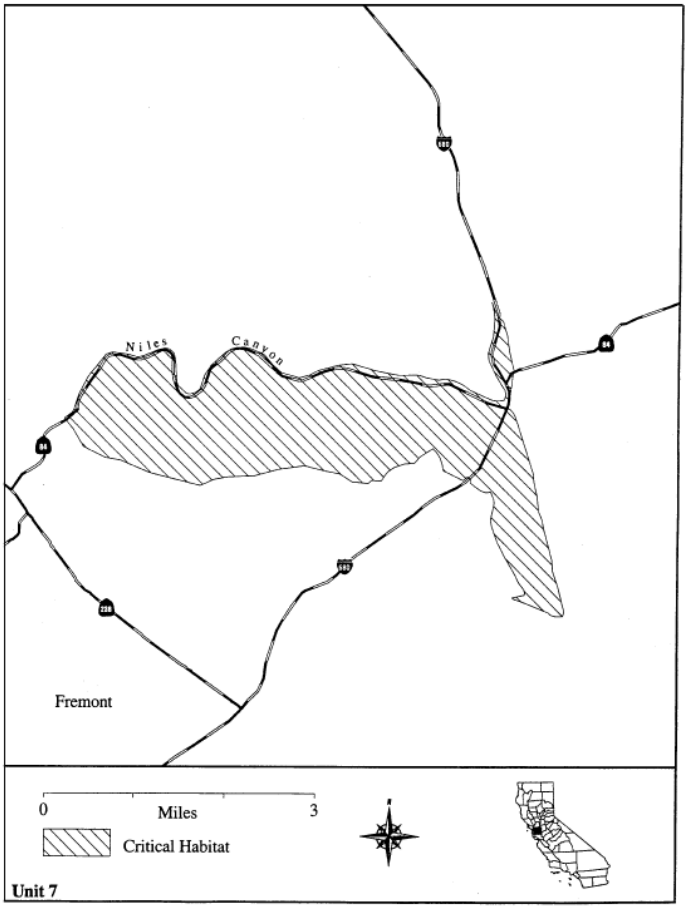
Map Unit 6: Alameda and Contra Costa Counties, California. From 1992 Orthophoto quads, Mount Diablo Base Meridian, California: T. 1 N., R. 4 W., SE 1/4 sec. 36; T. 1 N., R. 3 W., SW 1/4 sec. 31, S 1/2 sec. 33; T. 1 S., R. 4 W., S 1/2 NE 1/4 sec. 1, NE 1/4 sec. 12; T. 1 S., R. 3 W., W 1/2 sec. 3, secs. 4–6, N 1/2 SE 1/4 sec. 7, secs. 8-10, secs. 14–15, N 1/2 SE 1/4 sec. 16, N 1/2 sec. 17, NE 1/4 sec. 18.



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Map Unit 7: Alameda County, California. From 1992 Orthophoto quads, Mount Diablo Base Meridian, California: T. 4 S., R. 1 W., SE 1/4 sec. 10, S 1/2 sec. 11, S 1/2 sec. 12, secs. 13–14, E 1/2 sec. 15, NE 1/4 sec. 23, NW 1/4 sec. 24; T. 4 S., R. 1 E., S 1/2 sec. 7, S 1/2 sec. 8, sec. 9, secs. 16–18, NE 1/4 sec. 19, NE 1/4 sec. 20, sec. 21, W 1/2 sec. 27, N 1/2 sec. 28.

(d) *Amphibians.*

Golden Coqui (Eleutherodactylus jasperi)

Puerto Rico. Areas of land, water and airspace with the following components: (1) Cerro Avispa-elevation above 700 meters on the south and southeastern slope of the mountain: from the northern junction of Highway 715 and an unnumbered dirt road southeast and southwest along Highway 715 to the southern junction with the same unnumbered dirt road and Highway 715, north and northeast along the unnumbered dirt road just below the southeast facing crest of Cerro Avispa to its junction with Highway 715.

(2) Monte el Gato-entire summit above 700 meters: from the junction of Highway 715 to the junction of Highway 715 and the 700 meter contour interval west along Highway 715 to the junction of Highway 715 and an unnumbered road, north and northeast along this road to where it crosses the 700 meter contour interval, and east along the 700 meter contour interval to where it crosses Highway 715.

(3) Sierra de Cayey-elevations above 700 meters: southeast from the junction of Highways 738 and 15 along Highway 15 to point .5 kilometer south of Benchmark 684.5, northeast from this point in a line to a point on Highway 7741 two kilometers south of the junction of Highway 738 and 7741, north and northwest along Highway 7741 to its junction with Highway 738, and northwest from the junction of Highways 7741 and 738 along Highway 738 to its junction with Highway 15.

Note:

Map follows:

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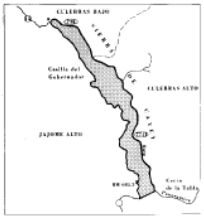
Refer to 7.5 minute U.S.G.S. Topographical Map, Cayey, Puerto Rico, 1972.

Note:

Map follows:



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San Marcos Salamander (Eurycea nana)

Texas. Hays County—Spring Lake and its outflow, the San Marcos River, downstream approximately 50 meters from the Spring Lake Dam.

Note:

Map follows:

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California Red-Legged Frog (Rana aurora draytonii)

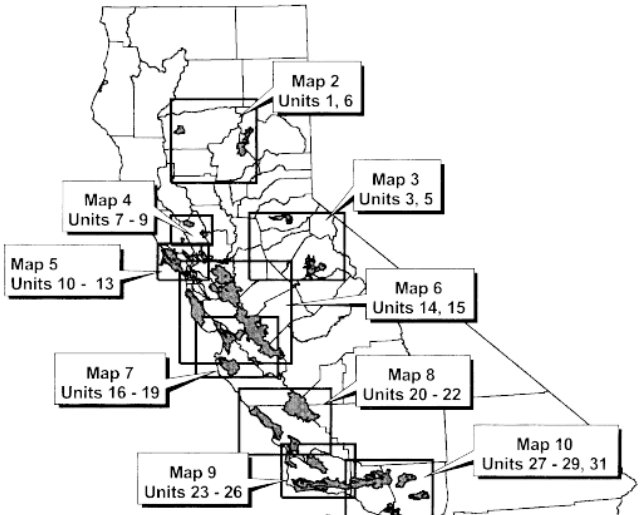
1. Critical habitat units are depicted for Alameda, Butte, Contra Costa, El Dorado, Fresno, Kern, Los Angeles, Marin, Mariposa, Merced, Monterey, Napa, Plumas, Riverside, San Benito, San Diego, San Joaquin, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Solano, Sonoma, Stanislaus, Tehama, Tuolumne, and Ventura counties, California, on the maps below.

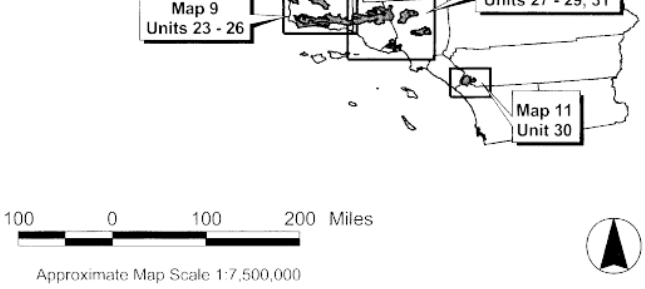
2. Critical habitat includes: Essential aquatic habitat; associated uplands; and dispersal habitat connecting essential aquatic habitat.

3. Within these areas, primary constituent elements of the California red-legged frog include the following habitat components. Essential aquatic components consists of all still or slow-flowing freshwater aquatic features possessing minimum water depths of 0.5 m (20 in.), with the exception of deep lacustrine water habitat (lakes and reservoirs greater than 20 ha (50 ac)) inhabited by nonnative predators, that are essential for providing space, food, and cover needed to sustain eggs, tadpoles, metamorphosing juveniles, nonbreeding subadults, and breeding and nonbreeding adult frogs, *and* are found in areas with two or more suitable breeding locations and a permanent water source with no more than 2 km (1.25 mi) separating these locations. Essential dispersal habitat consists of upland and aquatic areas, free of barriers and at least 90 m (300 ft) wide; this element is essential for providing connectivity between aquatic breeding areas identified above. Upland habitat components are areas within 90 m (300 ft) from the edge of the essential aquatic primary constituent element. In situations where a watershed boundary is less than 90 m (300 ft) from suitable habitat, the top of the watershed shall be the boundary for this constituent element.

4. Existing features and structures within the boundaries of the mapped units, such as buildings, roads, aqueducts, railroads, other paved areas, lawns, and other urban landscaped areas, and uplands removed from essential aquatic and dispersal habitat, will not contain one or more of the primary constituent elements and, therefore, would not trigger a section 7 consultation, unless they affect the species and/or primary constituent elements in adjacent critical habitat.

Map 1 - Index
Final California Red - Legged Frog
Critical Habitat Units





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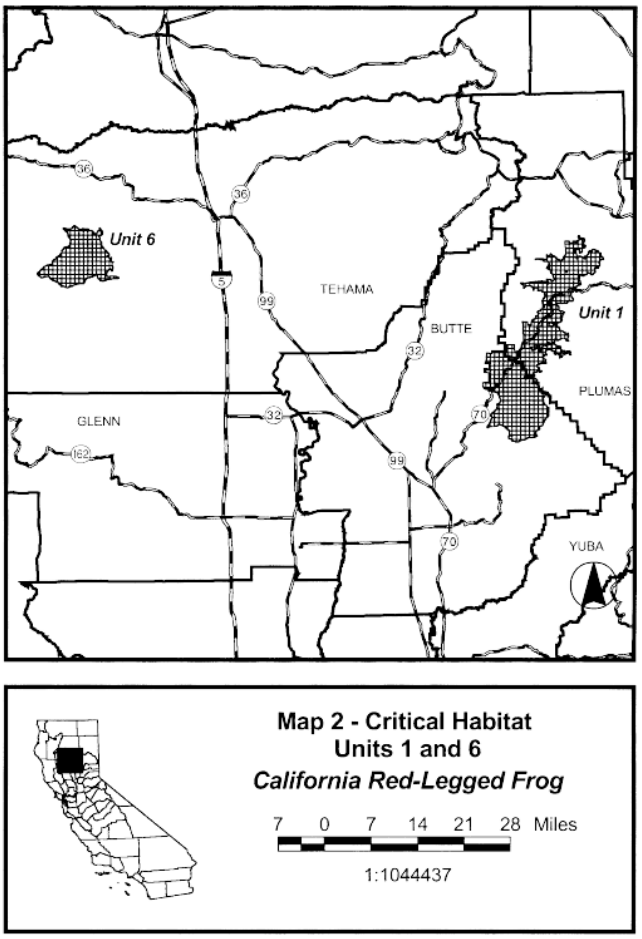

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Unit 1. North Fork Feather: Plumas and Butte Counties, California. From USGS 1:24,000 quadrangle maps Almanor, Belden, Berry Creek, Brush Creek, Bucks Lake, Caribou, Haskins Valley, Kimshew Point, Pulga, Soapstone Hill, and Storrie, lands bounded by the following UTM zone 10 NAD83 coordinates (E, N): 653700, 4444100; 653900, 4444100; 653900, 4444000; 654000, 4444000; 654000, 4443800; 653800, 4443800; 653800, 4443600; 654000, 4443600; 654000, 4443500; 654200, 4443500; 654200, 4443600; 654300, 4443600; 654300, 4443500; 654900, 4443500; 654900, 4443400; 655000, 4443400; 655000, 4443200; 655100, 4443200; 655100, 4443100; 655200, 4443100; 655200, 4442900; 655100, 4442900; 655100, 4442800; 655000, 4442800; 655000, 4442600; 654800, 4442600; 654800, 4442200; 654900, 4442200; 654900, 4442000; 654800, 4442000; 654800, 4441600;

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Unit 6. Headwaters of Cottonwood Creek: Tehama County, California. From USGS 1:24,000 quadrangle

maps Cold Fork, Lowrey, Oxbow Bridge, and Raglin Ridge, land bounded by the following UTM Zone 10 NAD83 coordinates (E, N): 531300, 4446500; 531600, 4446500; 531600, 4446400; 531700, 4446400; 531700, 4446300; 531800, 4446300; 531800, 4446200; 532000, 4446200; 532000, 4446000; 532100, 4446000; 532100, 4445900; 532300, 4445900; 532300, 4445800; 532400, 4445800; 532400, 4445700; 532600, 4445700; 532600, 4445600; 532800, 4445600; 532800, 4445500; 533000, 4445500; 533000, 4445600; 533300, 4445600; 533300, 4445800; 533600, 4445800; 533600, 4445700; 534000, 4445700; 534000, 4445600; 534300, 4445600; 534300, 4445700; 534800, 4445700; 534800, 4445600;

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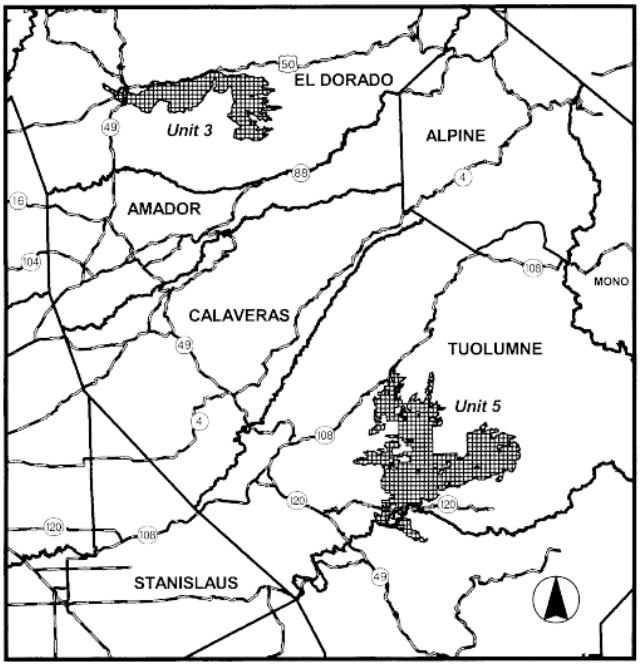

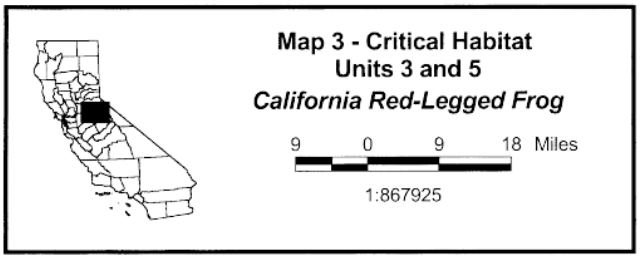

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Unit 3. Weber Creek-Consumnes: Eldorado County, California. From USGS 1:24,000 quadrangle maps Caldor, Camino, Omo Ranch, Placerville, Pollock Pines, Riverton, Sly Park, Stump Spring, lands bounded by the following UTM Zone 10 NAD83 coordinates (E, N): 710200, 4293200; 710700, 4293200; 710700, 4293100; 711000, 4293100; 711000, 4293000; 711100, 4293000; 711100, 4292900; 711700, 4292900; 711700, 4293000; 711900, 4293000; 711900, 4292900; 712100, 4292900; 712100, 4292800; 712400, 4292800; 712400, 4292700; 712500, 4292700; 712500, 4292600; 712900, 4292600; 712900, 4292500; 713000, 4292500; 713000, 4292400; 713100, 4292400; 713100, 4292300; 713200, 4292300; 713200, 4292100; 713400, 4292100; 713400, 4292000; 713800, 4292000; 713800, 4291900; 714800, 4291900; 714800, 4292000; 715000, 4292000; 715000, 4292100; 715700, 4292100; 715700, 4292000; 715800, 4292000; 715800, 4291900; 716300, 4291900; 716300, 4292000; 717200, 4292000; 717200, 4292100; 717400, 4292100; 717400, 4292200; 717900, 4292200; 717900, 4292300; 718400, 4292300; 718400, 4292200; 718500, 4292200; 718500, 4292100; 718900, 4292100; 718900, 4292000; 719000, 4292000; 719000, 4291900; 719300, 4291900; 719300, 4291800; 719500, 4291800; 719500, 4291700; 720300, 4291700; 720300, 4291600; 720500, 4291600; 720500, 4291500; 720900, 4291500; 720900, 4291400; 721200, 4291400; 721200, 4291500; 721600, 4291500; 721600, 4291400; 722000, 4291400; 722000, 4291500; 722300, 4291500; 722300, 4291600; 722500, 4291600; 722500, 4291500; 722600, 4291500; 722600, 4291400; 722700, 4291400; 722700, 4291300; 722900, 4291300; 722900, 4291000; 723000, 4291000; 723000, 4290900; 723100,

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Excluding lands bound by: 720100, 4287200; 719700, 4287200; 719700, 4287000; 719800, 4287000; 719800, 4286900; 720200, 4286900; 720200, 4287100; 720100, 4287100; 720100, 4287200.

Excluding lands bound by: 721700, 4284300; 721500, 4284300; 721500, 4284100; 721700, 4284100; 721700, 4284300.

Excluding lands bound by: 719900, 4281100; 719800, 4281100; 719800, 428100

Unit 5. Yosemite: Tuolumne and Mariposa counties, California. From USGS 1:24,000 quadrangle maps Ackerson Mtn, Ascension Mtn, Buckhorn Peak, Cherry Lake North, Cherry Lake South, Duckwall Mtn, Groveland, Hull Creek, Jawbone Ridge, Lake Eleanor, Strawberry, Tuolumne, and Twain Harte, all federal lands bounded by the following UTM zone 10 NAD83 coordinates (E, N): Subunit A (West): 753500, 4206700; 753200, 4206700; 753200, 4206600; 752000, 4206600; 752000, 4206900; 751200, 4206900; 751200, 4207100; 751900, 4207100; 751900, 4207200; 753100, 4207200; 753100, 4207300; 754400, 4207300; 754400, 4207500; 754300, 4207500; 754300, 4210500; 754200, 4210500; 754200, 4210600; 751800, 4210600; 751800, 4210500; 751500, 4210500; 751500, 4211400; 751400, 4211400; 751400, 4212100; 750100, 4212100; 750100, 4211500; 750200, 4211500; 750200, 4211000; 749900, 4211000; 749900, 4211200; 749600, 4211200; 749600, 4210300; 749900, 4210300; 749900, 4210500; 750200, 4210500; 750200, 4210200; 749600, 4210200; 749600, 4209400; 749900, 4209400; 749900, 4209500; 750700, 4209500; 750700,

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Excluding lands bounded by: 753500, 4206700; 753800, 4206700; 753800, 4206800; 753900, 4206800; 753900, 4207100; 753600, 4207100; 753600, 4207000; 753500, 4207000; 753500, 4206700.

Excluding lands bounded by: 753300, 4220900; 752800, 4220900; 752800, 4220000; 753300, 4220000; 753300, 4220900.

Excluding lands bounded by: 762200, 4220200; 762000, 4220200; 762000, 4219700; 762200, 4219700; 762200, 4219900; 762300, 4219900; 762300, 4220100; 762200, 4220100; 762200, 4220200.

Excluding lands bounded by: 751800, 4218000; 751300, 4218000; 751300, 4217200; 751000, 4217200; 751000, 4216700; 751900, 4216700; 751900, 4217400; 751800, 4217400; 751800, 4218000.

Excluding lands bounded by: 758000, 4215300; 757900, 4215300; 757900, 4215100; 758000, 4215100; 758000, 4215300.

Excluding lands bounded by: 754900, 4213900; 754000, 4213900; 754000, 4213800; 753200, 4213800;

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Excluding lands bounded by: 755700, 4213900; 755200, 4213900; 755200, 4213400; 755700, 4213400; 755700, 4213000; 756100, 4213000; 756100, 4212600; 757000, 4212600; 757000, 4213100; 756600, 4213100; 756600, 4213500; 755700, 4213500; 755700, 4213900.

Excluding lands bounded by: 759400, 4212800; 758500, 4212800; 758500, 4211500; 759000, 4211500; 759000, 4212300; 759400, 4212300; 759400, 4212800.

Excluding lands bounded by: 761500, 4212800; 761300, 4212800; 761300, 4212600; 761200, 4212600; 761200, 4212400; 761300, 4212400; 761300, 4212500; 761400, 4212500; 761400, 4212600; 761500, 4212600; 761500, 4212800.

Excluding lands bounded by: 755800, 4211700; 755500, 4211700; 755500, 4211600; 755600, 4211600; 755600, 4210900; 756000, 4210900; 756000, 4211000; 756400, 4211000; 756400, 4211200; 756300, 4211200; 756300, 4211300; 756200, 4211300; 756200, 4211500; 756100, 4211500; 756100, 4211600; 755900, 4211600; 755900, 4211500; 755800, 4211500; 755800, 4211700.

Excluding lands bounded by: 762700, 4211300; 761800, 4211300; 761800, 4210400; 762700, 4210400; 762700, 4211300.

Excluding lands bounded by: 756300, 4206200; 756200, 4206200; 756200, 4206100; 756100, 4206100; 756100, 4206000; 756200, 4206000; 756200, 4205900; 756700, 4205900; 756700, 4205800; 757000, 4205800; 757000, 4205900; 757100, 4205900; 757100, 4206000; 757300, 4206000; 757300, 4205900; 757600, 4205900; 757600, 4205800; 757800, 4205800; 757800, 4206000; 757700, 4206000; 757700, 4206100; 757400, 4206100; 757400, 4206200; 756700, 4206200; 756700, 4206100; 756600, 4206100; 756600, 4206200; 756400, 4206200; 756400, 4206100; 756300, 4206100; 756300, 4206200.

Excluding lands bounded by: 756200, 4202500; 755300, 4202500; 755300, 4202100; 754000, 4202100; 754000, 4201900; 754100, 4201900; 754100, 4201200; 754500, 4201200; 754500, 4200800; 756400, 4200800; 756400, 4200900; 757000, 4200900; 757000, 4202200; 756300, 4202200; 756300, 4202100; 756200, 4202100; 756200, 4202500.

Excluding lands bounded by: 753000, 4201700; 752000, 4201700; 752000, 4201500; 752100, 4201500; 752100, 4200700; 753000, 4200700; 753000, 4201700.

Excluding lands bounded by: 744800, 4201200; 744500, 4201200; 744500, 4200900; 744700, 4200900; 744700, 4201000; 744800, 4201000; 744800, 4201200.

Excluding lands bounded by: 763400, 4200400; 762500, 4200400; 762500, 4199500; 763400, 4199500; 763400, 4200400.

Excluding lands bounded by: 753000, 4200000; 752500, 4200000; 752500, 4199100; 753900, 4199100; 753900, 4199400; 753800, 4199400; 753800, 4199600; 753000, 4199600; 753000, 4200000.

Excluding lands bounded by: 759000, 4199100; 758700, 4199100; 758700, 4199000; 758500, 4199000; 758500, 4198700; 758600, 4198700; 758600, 4198100; 759100, 4198100; 759100, 4198400; 759000, 4198400; 759000, 4199100.

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Subunit B (East): lands bounded by the following UTM zone 11 NAD83 coordinates (E, N): 236800, 4215200; 236900, 4215200; 236900, 4214800; 237000, 4214800; 237000, 4214600; 236900, 4214600; 236900, 4214300; 236800, 4214300; 236800, 4214000; 236900, 4214000; 236900, 4213700; 237100, 4213700; 237100, 4213800; 237300, 4213800; 237300, 4214100; 237200, 4214100; 237200, 4214200; 237300, 4214200; 237300, 4214300; 237400, 4214300; 237400, 4213900; 237500, 4213900; 237500, 4213500; 237600, 4213500; 237600, 4213400; 237800, 4213400; 237800, 4213600; 237900, 4213600; 237900, 4213700; 238000, 4213700; 238000, 4213500; 238500, 4213500; 238500, 4213600; 238800, 4213600;

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Excluding lands bounded by: 253300, 4204200; 253100, 4204200; 253100, 4204000; 253300, 4204000; 253300, 4204200.

Excluding lands bounded by: 251100, 4203900; 250500, 4203900; 250500, 4203800; 250400, 4203800; 250400, 4203200; 250300, 4203200; 250300, 4203100; 250200, 4203100; 250200, 4203000; 250300, 4203000; 250300, 4202900; 250800, 4202900; 250800, 4203000; 250900, 4203000; 250900, 4203200; 251000, 4203200; 251000, 4203300; 251300, 4203300; 251300, 4203400; 251400, 4203400; 251400, 4203500; 251500, 4203500; 251500, 4203700; 251400, 4203700; 251400, 4203800; 251100, 4203800; 251100, 4203900.

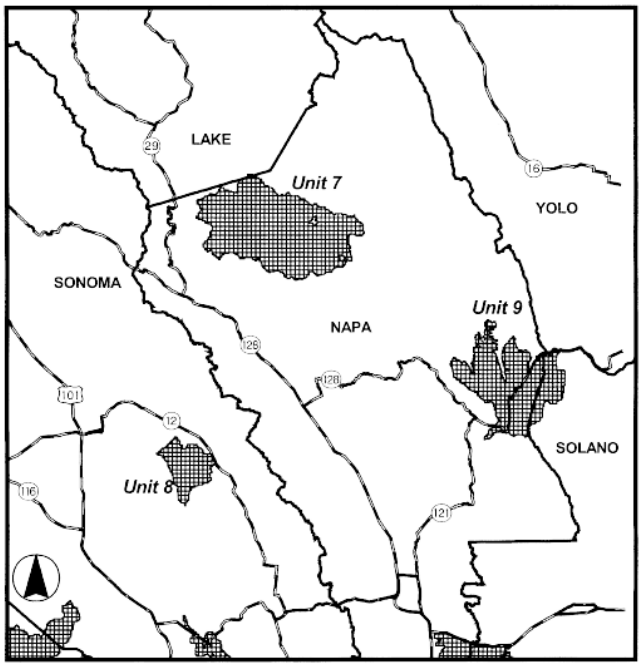
Excluding lands bounded by: 252700, 4203900; 252600, 4203900; 252600, 4203700; 252000, 4203700; 252000, 4203400; 252400, 4203400; 252400, 4203500; 252500, 4203500; 252500, 4203400; 252600, 4203400; 252600, 4203300; 252700, 4203300; 252700, 4203200; 252900, 4203200; 252900, 4203400; 253000, 4203400; 253000, 4203500; 253100, 4203500; 253100, 4203600; 253200, 4203600; 253200, 4203900; 252900, 4203900; 252900, 4203800; 252700, 4203800; 252700, 4203900.

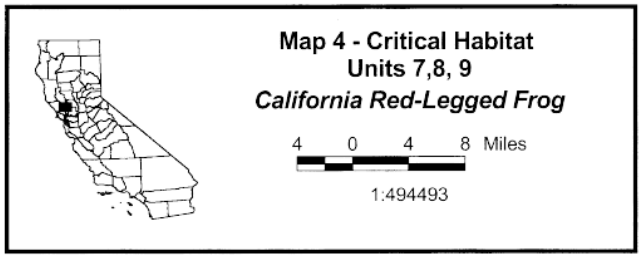
Excluding lands bounded by: 251000, 4202600; 250900, 4202600; 250900, 4202500; 250800, 4202500; 250800, 4202300; 250900, 4202300; 250900, 4202200; 251000, 4202200; 251000, 4202300; 251100, 4202300; 251100, 4202500; 251000, 4202500; 251000, 4202600.

Excluding lands bounded by: 238600, 4200800; 238400, 4200800; 238400, 4200600; 238300, 4200600; 238300, 4200000; 237000, 4200000; 237000, 4199000; 237400, 4199000; 237400, 4199100; 237500, 4199100; 237500, 4199500; 238600, 4199500; 238600, 4199400; 238800, 4199400; 238800, 4199800; 239200, 4199800; 239200, 4200300; 238800, 4200300; 238800, 4200600; 238900, 4200600; 238900, 4200700; 238600, 4200700; 238600, 4200800.

Excluding lands bounded by: 245400, 4199200; 245200, 4199200; 245200, 4199100; 244700, 4199100; 244700, 4199000; 244600, 4199000; 244600, 4198800; 244500, 4198800; 244500, 4198700; 244800, 4198700; 244800, 4198600; 245000, 4198600; 245000, 4198700; 245100, 4198700; 245100, 4198600; 245500, 4198600; 245500, 4198700; 245600, 4198700; 245600, 4198800; 245700, 4198800; 245700, 4199000; 245600, 4199000; 245600, 4199100; 245400, 4199100; 245400, 4199200.

Excluding lands bounded by: 238400, 4196000; 237700, 4196000; 237700, 4195900; 237400, 4195900; 237400, 4195400; 237300, 4195400; 237300, 4195200; 237200, 4195200; 237200, 4195100; 238200, 4195100; 238200, 4195300; 238300, 4195300; 238300, 4195900; 238400, 4195900; 238400, 4196000.





View or download PDF

Unit 7. Cleary Preserve: Napa County, California. From USGS 1:24,000 quadrangle maps Aetna Springs, Calistoga, Chiles Valley, Detert Reservoir, St. Helena, and Walter Springs, lands bounded by the following

UTM zone 10 NAD83 coordinates (E, N): 544000, 4283700; 544500, 4283700; 544500, 4283500; 544700, 4283500; 544700, 4283400; 545000, 4283400; 545000, 4283300; 545200, 4283300; 545200, 4283200; 545500, 4283200; 545500, 4283100; 545600, 4283100; 545600, 4282800; 545800, 4282800; 545800, 4282500; 545900, 4282500; 545900, 4282400; 546300, 4282400; 546300, 4282300; 546400, 4282300; 546400, 4282200; 546700, 4282200; 546700, 4282100; 546800, 4282100; 546800, 4282000; 546900,

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Excluding lands bounded by: 551700, 4278900; 551700, 4278800; 551500, 4278800; 551500, 4278700; 551400, 4278700; 551400, 4278500; 551300, 4278500; 551300, 4278400; 551200, 4278400; 551200, 4278300; 551000, 4278300; 551000, 4278200; 551100, 4278200; 551100, 4278100; 551400, 4278100; 551400, 4277900; 551600, 4277900; 551600, 4277800; 551700, 4277800; 551700, 4277900; 551800, 4277900; 551800, 4278000; 551900, 4278000; 551900, 4278100; 552000, 4278100; 552000, 4278300; 551800, 4278300; 551800, 4278400; 551700, 4278400; 551700, 4278500; 551800, 4278500; 551800, 4278900; 551700, 4278900.

Unit 8. Annadel State Park Preserve: Sonoma County, California. From USGS 1:24,000 quadrangle maps Glen Ellen, and Kenwood, lands bounded by the following UTM zone 10 NAD83 coordinates (E, N): 535600, 4253400; 535800, 4253400; 535800, 4253300; 535900, 4253300; 535900, 4253100; 536000, 4253100; 536000, 4252900; 536200, 4252900; 536200, 4252400; 536500, 4252400; 536500, 4252000; 536900, 4252000; 536900, 4252200; 537100, 4252200; 537100, 4252500; 537900, 4252500; 537900, 4252400; 538100, 4252400; 538100, 4252500; 538200, 4252500; 538200, 4252300; 538300, 4252300; 538300, 4252100; 538600,

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Unit 9. Stebbins Cold Canyon Preserve: Napa and Sonoma Counties, California. From USGS 1:24,000 quadrangle maps Capell Valley, Lake Berryessa, Monticello Dam, and Mt. Vaca, lands bounded by the following UTM zone 10 NAD83 Coordinates (E, N): 571500, 4266900; 571600, 4266900; 571600, 4266800; 571800, 4266800; 571800, 4266700; 571900, 4266700; 571900, 4266600; 572200, 4266600; 572200, 4266700; 572400, 4266700; 572400, 4266400; 572500, 4266400; 572500, 4266100; 572400, 4266100; 572400, 4266000; 572200, 4266000; 572200, 4265800; 572000, 4265800; 572000, 4265700; 571900, 4265700; 571900, 4266000; 571700, 4266000; 571700, 4265500; 571800, 4265500; 571800, 4265400; 572000, 4265400; 572000, 4265300; 571700, 4265300; 571700, 4264900; 571800, 4264900; 571800, 4265000; 572100, 4265000; 572100, 4264900; 572000, 4264900; 572000, 4264700; 572200, 4264700; 572200, 4264600; 572600, 4264600; 572600, 4264500; 572500, 4264500; 572500, 4264400; 572200, 4264400; 572200, 4264300; 572000, 4264300; 572000, 4264200; 572300, 4264200; 572300, 4264100; 572400, 4264100; 572400, 4264200; 572500, 4264200; 572500, 4264100; 572600, 4264100; 572600, 4264000; 572500, 4264000; 572500, 4263700; 572600, 4263700; 572600, 4263400; 572200, 4263400; 572200, 4263300; 572300, 4263300; 572300, 4263200; 572200, 4263200; 572200,

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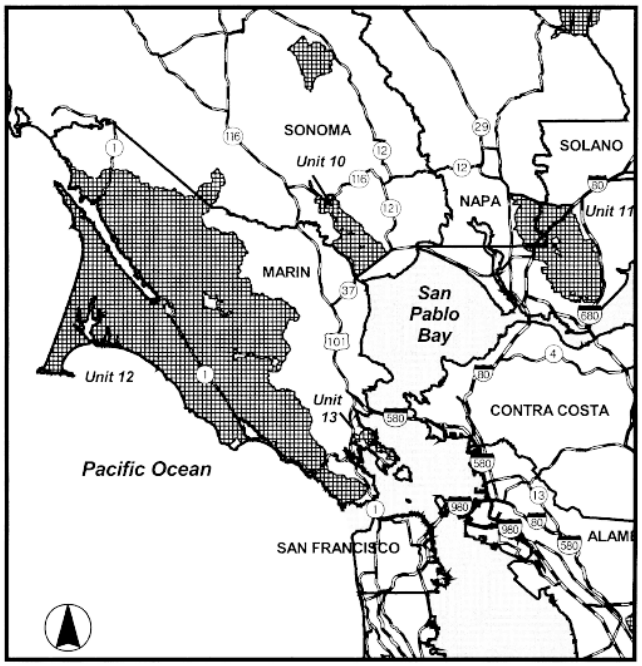

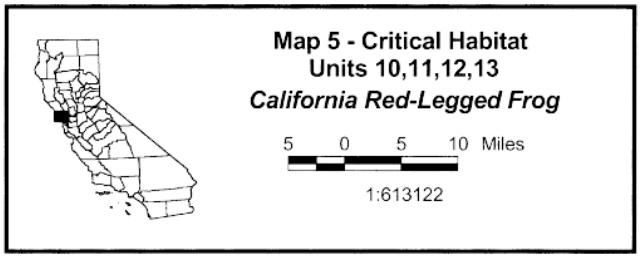

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Unit 10. Sears Point: Sonoma County, California. From USGS 1:24,000 quadrangle maps Novato, Petaluma Point, Petaluma River, and Sears Point, lands bounded by the following UTM zone 10 NAD83 coordinates (E, N): 539100, 4230100; 539100, 4230400; 539200, 4230400; 539200, 4230600; 539300, 4230600; 539300, 4230700; 539500, 4230700; 539500, 4230800; 540000, 4230800; 540000, 4230600; 540100, 4230600; 540100, 4230500; 540200, 4230500; 540200, 4230400; 540300, 4230400; 540300, 4230300; 540400, 4230300; 540400, 4229900; 540600, 4229900; 540600, 4229800; 540800, 4229800; 540800, 4229700; 540900, 4229700; 540900, 4229300; 541000,

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Excluding lands bounded by: 539100, 4230100; 539100, 4229800; 539400, 4229800; 539400, 4230100; 539100, 4230100.

Excluding lands bounded by: 539700, 4229400; 539700, 4229200; 539800, 4229200; 539800, 4229100; 539900, 4229100; 539900, 4229300; 539800, 4229300; 539800, 4229400; 539700, 4229400.

Excluding lands bounded by: 539700, 4229400; 539700, 4229500; 539600, 4229500; 539600, 4229400; 539700, 4229400.

Excluding lands bounded by: 540300, 4227500; 540300, 4227300; 540400, 4227300; 540400, 4227200; 540500, 4227200; 540500, 4227400; 540400, 4227400; 540400, 4227500; 540300, 4227500.

Excluding lands bounded by: 540300, 4227500; 540300, 4227600; 540200, 4227600; 540200, 4227500; 540300, 4227500.

Excluding lands bounded by: 539200, 4229700; 538900, 4229700; 538900, 4229500; 538800, 4229500; 538800, 4229300; 539200, 4229300; 539200, 4229700.

Excluding lands bounded by: 539500, 4229500; 539300, 4229500; 539300, 4229400; 539500, 4229400; 539500, 4229500.

Excluding lands bounded by: 539100, 4229100; 538900, 4229100; 538900, 4228900; 539100, 4228900; 539100, 4229100.

Excluding lands bounded by: 540000, 4228400; 539900, 4228400; 539900, 4228300; 540000, 4228300; 540000, 4228400.

Excluding lands bounded by: 540100, 4228200; 539900, 4228200; 539900, 4228100; 540100, 4228100; 540100, 4228200.

Excluding lands bounded by: 540900, 4228200; 540800, 4228200; 540800, 4228000; 540900, 4228000; 540900, 4228200.

Excluding lands bounded by: 540500, 4227000; 540300, 4227000; 540300, 4226800; 540500, 4226800; 540500, 4227000

Excluding lands bounded by: 541500, 4225900; 541200, 4225900; 541200, 4225700; 541100, 4225700; 541100, 4225500; 541300, 4225500; 541300, 4225700; 541400, 4225700; 541400, 4225800; 541500, 4225800; 541500, 4225900.

Excluding lands bounded by: 542100, 4225400; 542000, 4225400; 542000, 4225300; 542100, 4225300; 542100, 4225400.

Excluding lands bounded by: 542700, 4225400; 542400, 4225400; 542400, 4225200; 542700, 4225200; 542700, 4225400.

Excluding lands bounded by: 542300, 4225100; 542200, 4225100; 542200, 4224900; 542300, 4224900; 542300, 4225100.

Excluding lands bounded by: 543000, 4225100; 542800, 4225100; 542800, 4225000; 543000, 4225000; 543000, 4225100.

Excluding lands bounded by: 541800, 4225000; 541700, 4225000; 541700, 4224900; 541800, 4224900; 541800, 4225000.

Excluding lands bounded by: 544000, 4223400; 543800, 4223400; 543800, 4223000; 544000, 4223000; 544000, 4223400.

Excluding lands bounded by: 544500, 4223300; 544200, 4223300; 544200, 4223100; 544500, 4223100; 544500, 4223300.

Unit 11. American Canyon: Napa and Solano counties, California. From USGS 1:24,000 quadrangle maps Benicia, Cordelia, Cuttings Wharf, Fairfield South, and Vine Hill, lands bounded by the following UTM zone 10 NAD83 coordinates (E, N): Subunit A: 565600, 4230600; 566900, 4230600; 566900, 4230500; 567100, 4230500; 567100, 4230400; 567300, 4230400; 567300, 4230300; 567600, 4230300; 567600, 4230200; 567800, 4230200; 567800, 4230100; 568000, 4230100; 568000, 4230000; 568300, 4230000; 568300, 4229900; 568500, 4229900; 568500, 4229800; 568800, 4229800; 568800, 4229700; 569000, 4229700; 569000, 4229600; 569300, 4229600; 569300, 4229500; 569500, 4229500; 569500, 4229400; 569700, 4229400; 569700, 4229300; 570500, 4229300; 570500, 4229200; 571500, 4229200; 571500, 4229100; 571800, 4229100; 571800, 4229000; 572500, 4229000; 572500, 4229100; 573400, 4229100; 573400, 4229200; 574200, 4229200; 574200, 4229000; 574100, 4229000; 574100, 4228900; 574000, 4228900; 574000, 4228800; 573900, 4228800;

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Subunit B: lands bounded by: 4228400; 574100, 4228400; 574100, 4227900; 574300, 4227900; 574300, 4227800; 574500, 4227800; 574500, 4227700; 574600, 4227700; 574600, 4227300; 574700, 4227300; 574700, 4227000; 574800, 4227000; 574800, 4226800; 574900, 4226800; 574900, 4226600; 575000, 4226600; 575000, 4226400; 575100, 4226400; 575100, 4225800; 575200, 4225800; 575200, 4225700; 575300, 4225700; 575300, 4225400; 575400, 4225400; 575400, 4225100; 575500, 4225100; 575500, 4224800; 575600, 4224800; 575600, 4224400; 575700, 4224400; 575700, 4224300; 575800, 4224300; 575800, 4224200; 576200, 4224200; 576200, 4224300; 576600, 4224300; 576600, 4224400; 576900, 4224400; 576900, 4224300; 577000, 4224300; 577000, 4224200; 577100, 4224200; 577100, 4224000; 577200, 4224000; 577200, 4223800; 577300, 4223800; 577300, 4223600; 577400, 4223600;

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Excluding lands bounded by: 572000, 4224600; 571600, 4224600; 571600, 4224500; 571500, 4224500; 571500, 4224400; 571300, 4224400; 571300, 4224300; 571100, 4224300; 571100, 4224000; 571300, 4224000; 571300, 4223700; 571400, 4223700; 571400, 4223500; 571500, 4223500; 571500, 4223300; 571600, 4223300; 571600, 4223100; 571800, 4223100; 571800, 4222800; 571700, 4222800; 571700, 4222700; 571600, 4222700; 571600, 4222400; 571700, 4222400; 571700, 4222300; 572000, 4222300; 572000, 4222200; 572200, 4222200; 572200, 4222100; 572300, 4222100; 572300, 4221900; 572400, 4221900; 572400, 4221800; 572600, 4221800; 572600, 4222000; 572500,

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Excluding lands bounded by: 572600, 4223800; 572500, 4223800; 572500, 4223700; 572600, 4223700; 572600, 4223800.

Excluding lands bounded by: 574400, 4216900; 574100, 4216900; 574100, 4216800; 574000, 4216800; 574000, 4216700; 573900, 4216700; 573900, 4216400; 574100, 4216400; 574100, 4216300; 574300, 4216300; 574300, 4216400; 574400, 4216400; 574400, 4216500; 574500, 4216500; 574500, 4216800; 574400, 4216800; 574400, 4216900.

Excluding lands bounded by: 576300, 4216300; 575900, 4216300; 575900, 4216200; 576000, 4216200; 576000, 4216000; 576100, 4216000; 576100, 4215800; 576200, 4215800; 576200, 4215900; 576300, 4215900; 576300, 4216300.

Unit 12. Point Reyes: Marin and Sonoma Counties, California. From USGS 1:24,000 quadrangle maps Bolinas, Cotati, Double Point, Drakes Bay, Inverness, Novato, Petaluma, Point Bonita, Point Reyes NE, San Francisco North, San Geronimo, San Rafael, Tomales, Two Rock, Valley Ford, lands bounded by the following UTM zone 10 NAD83 coordinates (E, N): 502000, 4235700; 502100, 4235700; 502100, 4235600; 502200, 4235600; 502200, 4235500; 502400, 4235500; 502400, 4235400; 502500, 4235400; 502500,

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Excluding lands bounded by: 518100, 4211000; 518100, 4210500; 518500, 4210500; 518500, 4210200; 518700, 4210200; 518700, 4210100; 518900, 4210100; 518900, 4210700; 518600, 4210700; 518600, 4210800; 518500, 4210800; 518500, 4211000; 518100, 4211000

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Unit 13. Tiburon Peninsula: Marin County, California. From USGS 1:24,000 quadrangle maps San Quentin, and San Rafael, lands bounded by the following UTM Zone 10 NAD83 coordinates (E, N): 544400, 4197200; 544500, 4197200; 544500, 4197100; 544600, 4197100; 544600, 4196900; 544800, 4196900; 544800, 4197100; 545100, 4197100; 545100, 4196500; 545500, 4196500; 545500, 4196400; 545600, 4196400; 545600, 4196300; 545700, 4196300; 545700, 4196200; 545800, 4196200; 545800, 4196100; 545500, 4196100; 545500,

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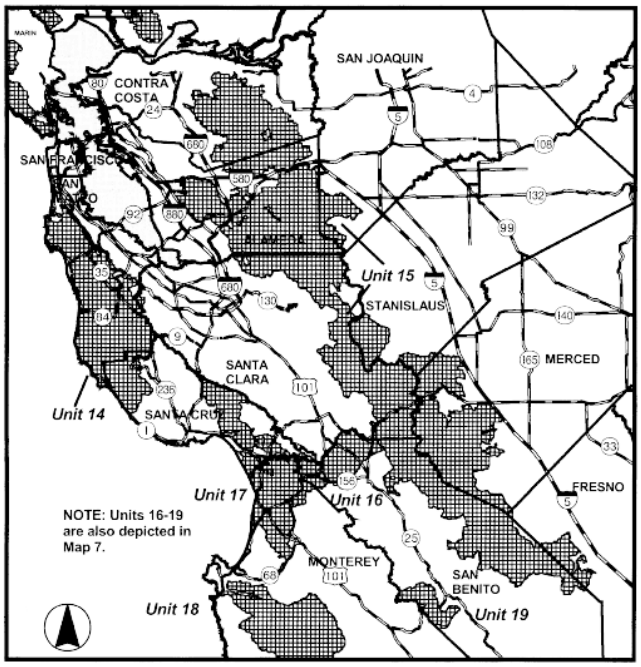

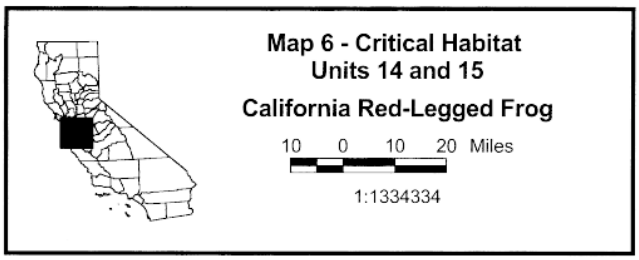

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Unit 14. San Mateo-Northern Santa Cruz: San Mateo, Santa Clara, and Santa Cruz counties, California. From USGS 1:24,000 quadrangle maps Ano Nuevo, Big Basin, Davenport, Franklin Point, Half Moon Bay, La Honda, Mindego Hill, Montara Mountain, Palo Alto, Pigeon Point, San Francisco South, San Gregorio, San Mateo, and Woodside, lands bounded by the following UTM Zone 10 NAD83 coordinates (E, N):
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Excluding lands bounded by: 552300, 4148300; 552300, 4148200; 552000, 4148200; 552000, 4148100;
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Excluding lands bounded by: 571000, 4140100; 571000, 4139900; 570600, 4139900; 570600, 4139800; 570400, 4139800; 570400, 4139400; 569600, 4139400; 569600, 4139300; 569300, 4139300; 569300, 4139100; 568900, 4139100; 568900, 4139000; 568500, 4139000; 568500, 4138800; 568200, 4138800; 568200, 4138300; 568600, 4138300; 568600, 4137800; 569000, 4137800; 569000, 4137400; 569200, 4137400; 569200, 4136300; 569400, 4136300; 569400, 4136100; 569500, 4136100; 569500, 4135900; 569600, 4135900; 569600, 4135500; 569700, 4135500; 569700, 4135400; 569800, 4135400; 569800, 4135300; 570200, 4135300; 570200, 4135400; 570400, 4135400; 570400, 4135800; 570200, 4135800; 570200, 4136000; 570000, 4136000; 570000, 4136400; 570200, 4136400; 570200, 4136600; 570400, 4136600; 570400, 4136800; 570600, 4136800; 570600, 4137000; 571000, 4137000; 571000, 4137300; 571200, 4137300; 571200, 4137700; 571400, 4137700; 571400, 4137800; 571500, 4137800; 571500, 4138400; 571600, 4138400; 571600, 4139000; 571500, 4139000; 571500, 4140100; 571000, 4140100.

Unit 15. East Bay-Diablo Range: Contra Costa, Alameda, San Joaquin, Santa Clara, Stanislaus, San Benito, Merced, and Fresno counties, California. From USGS 1:24,000 quadrangle maps Altamont, Antioch South, Brentwood, Byron Hot Springs, Calaveras Reservoir, Cedar Mtn., Cerro Colorado, Cherry Peak, Chounet Ranch, Clayton, Clifton Court Forebay, Crevison Peak, Diablo, Dublin, Eylar Mtn., Gilroy Hot Springs, Hayward, Howard Ranch, Isabel Valley, La Costa Valley, Livermore, Llanada, Lone Tree Creek, Los Banos Valley, Mariposa Peak, Mendenhall Springs, Mercey Hot Springs, Midway, Mississippi Creek, Monocline Ridge, Mt. Boardman, Mt. Day, Mt. Sizer, Mt. Stakes, Mustang Peak, Newark, Niles, Ortigalita Peak, Ortigalita Peak Nw, Pacheco Pass, Pacheco Peak, Panoche, Panoche Pass, Quien Sabe Valley, Ruby Canyon, San Benito, San Luis Dam, Tassajara, Three Sisters, Tracy, Tres Pinos, Tumey Hills, Volta, Walnut Creek, Wilcox Ridge, lands bounded by the following UTM zone 10 NAD83 Coordinates (E,N): 596000, 4206100; 596100, 4206100; 596100, 4205900; 596400, 4205900; 596400, 4205500; 596700, 4205500; 596700, 4205400; 597000, 4205400; 597000, 4205300; 599300, 4205300; 599300, 4205100; 599400, 4205100; 599400, 4204900; 599500, 4204900; 599500, 4204700; 599600, 4204700; 599600, 4203900; 599900, 4203900; 599900, 4204100; 600000, 4204100; 600000, 4204200; 600200, 4204200; 600200, 4204400; 600300, 4204400; 600300, 4204500; 600400, 4204500; 600400, 4204700; 600500, 4204700; 600500, 4204900; 600600, 4204900; 600600, 4205100; 600700, 4205100; 600700, 4205200; 600800, 4205200; 600800, 4205500; 600900, 4205500; 600900, 4205900; 600800, 4205900; 600800, 4206100; 600900, 4206100; 600900, 4206000; 601000, 4206000; 601000, 4205900; 601100, 4205900;

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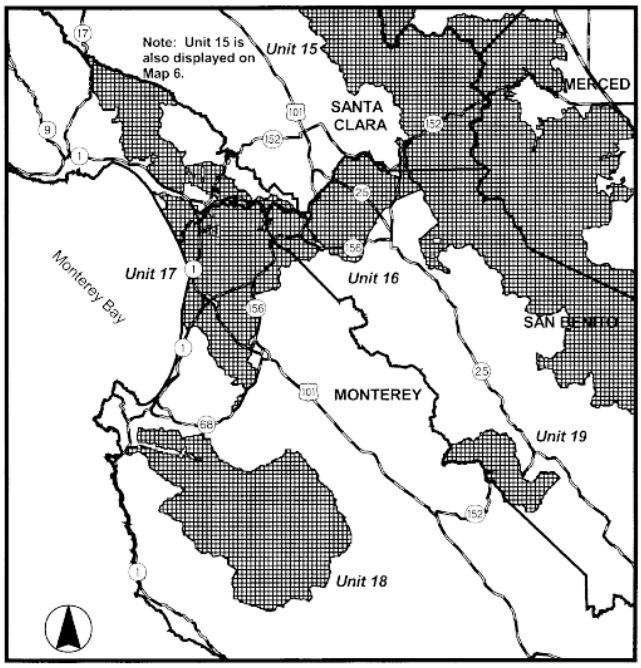

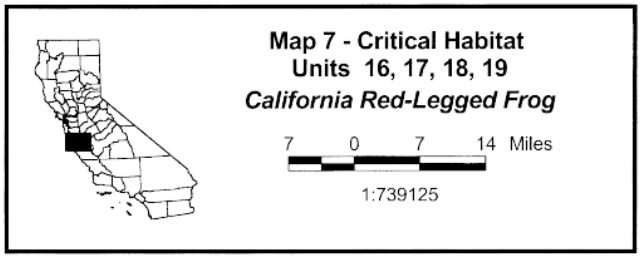

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Unit 16. Pajaro River: Santa Clara and San Benito counties, California. From USGS 1:24,000 quadrangle maps Chittenden, Gilroy Hot Springs, Hollister, Pacheco Peak, San Felipe, San Juan Bautista, Three Sisters, lands bounded by the following UTM zone 10 NAD83 coordinates (E, N): 643500, 4097300; 643600, 4097300; 643600, 4097200; 644000, 4097200; 644000, 4097100; 644100, 4097100; 644100, 4097000; 644200, 4097000; 644200, 4096900; 644300, 4096900; 644300, 4096800; 644400, 4096800; 644400, 4096700; 644900, 4096700; 644900, 4096800; 645300, 4096800; 645300, 4096900; 645800, 4096900; 645800, 4096800; 645900, 4096800; 645900, 4096600; 645800, 4096600; 645800, 4096500; 645700,

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Unit 17. Elkhorn Slough-Salinas River: Santa Cruz, Monterey, and San Benito counties, California. From USGS 1:24,000 quadrangle maps Chittenden, Laurel, Los Gatos, Loma Prieta, Marina, Moss Landing, Prunedale, Salinas, San Juan Bautista, Soquel, Spreckels, Watsonville East, Watsonville West, lands bounded by the following UTM zone 10 NAD83 coordinates (E, N): Subunit A 589500, 4111300; 590500, 4111300; 590500, 4111200; 590600, 4111200; 590600, 4111100; 591200, 4111100; 591200, 4111000; 591300, 4111000; 591300, 4110900; 591400, 4110900; 591400, 4110800; 591500, 4110800; 591500, 4110500; 591600, 4110500; 591600, 4110400; 591700, 4110400; 591700, 4110300; 591900, 4110300; 591900, 4110200; 592100, 4110200; 592100, 4110100; 592200, 4110100; 592200, 4110000; 592300, 4110000; 592300, 4109900; 592600, 4109900; 592600, 4109700; 592700, 4109700; 592700, 4109600; 593000, 4109600; 593000, 4109700; 593100, 4109700; 593100, 4109600; 593200, 4109600; 593200, 4109500; 593600, 4109500; 593600, 4109400; 593700, 4109400; 593700, 4109300; 593900, 4109300; 593900, 4109200; 594200, 4109200; 594200, 4109100; 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Subunit B: lands bounded by: 617200, 4053200; 617300, 4053200; 617300, 4053000; 617200, 4053000; 617200, 4052800; 617100, 4052800; 617100, 4052600; 617000, 4052600; 617000, 4052400; 616900, 4052400; 616900, 4052100; 616800, 4052100; 616800, 4051900; 616700, 4051900; 616700, 4051700; 616600, 4051700; 616600, 4051500; 616500, 4051500; 616500, 4051300; 616400, 4051300; 616400, 4051200; 616300, 4051200; 616300, 4051000; 616200, 4051000; 616200, 4050900; 616100, 4050900; 616100, 4050800; 616000, 4050800; 616000, 4050700; 615900, 4050700; 615900, 4050600; 615800, 4050600; 615800, 4050500; 615700, 4050500; 615700, 4050400; 615600, 4050400; 615600, 4050300; 615400, 4050300; 615400, 4050200; 615300, 4050200; 615300, 4050100; 615200, 4050100; 615200, 4050200; 615100, 4050200; 615100, 4050600; 615200, 4050600; 615200, 4051000; 615300, 4051000; 615300, 4051100; 615600, 4051100; 615600, 4051800; 616000, 4051800; 616000, 4051900; 616200, 4051900; 616200, 4052400; 616000, 4052400; 616000, 4052500; 616200, 4052500; 616200, 4052600; 616300, 4052600; 616300, 4052700; 616400, 4052700; 616400, 4052800; 616500, 4052800; 616500, 4052900; 616600, 4052900; 616600, 4053000; 617000, 4053000; 617000, 4053100; 617200, 4053100; 617200, 4053200.

Excluding lands bounded by: 607100, 4092300; 607100, 4091700; 607300, 4091700; 607300, 4091200; 607500, 4091200; 607500, 4090900; 608100, 4090900; 608100, 4091100; 608200, 4091100; 608200, 4091300; 608100, 4091300; 608100, 4091400; 607600, 4091400; 607600, 4091600; 607700, 4091600; 607700, 4092000; 607400, 4092000; 607400, 4092300; 607100, 4092300.

Excluding lands bounded by: 609900, 4092200; 609900, 4090400; 610400, 4090400; 610400, 4092200; 609900, 4092200.

Excluding lands bounded by: 608500, 4090900; 608500, 4090600; 608800, 4090600; 608800, 4090900; 608500, 4090900.

Excluding lands bounded by: 612800, 4090700; 612800, 4090600; 612600, 4090600; 612600, 4090500; 612500, 4090500; 612500, 4090400; 612600, 4090400; 612600, 4090100; 612800, 4090100; 612800, 4090200; 612900, 4090200; 612900, 4090300; 613000, 4090300; 613000, 4090500; 613100, 4090500; 613100, 4090700; 612800, 4090700.

Excluding lands bounded by: 609900, 4090200; 609900, 4089800; 610300, 4089800; 610300, 4090200; 609900, 4090200.

Excluding lands bounded by: 612500, 4088700; 612500, 4088500; 612400, 4088500; 612400, 4088400; 612200, 4088400; 612200, 4088300; 612400, 4088300; 612400, 4088200; 612500, 4088200; 612500, 4088100; 612700, 4088100; 612700, 4087700; 612900, 4087700; 612900, 4088300; 612600, 4088300; 612600, 4088500; 612700, 4088500; 612700, 4088700; 612500, 4088700.

Excluding lands bounded by: 611400, 4085200; 611400, 4085100; 611300, 4085100; 611300, 4085000; 611200, 4085000; 611200, 4084600; 611300, 4084600; 611300, 4084100; 611400, 4084100; 611400, 4084000; 611500, 4084000; 611500, 4083600; 611700, 4083600; 611700, 4083700; 611900, 4083700; 611900, 4083800; 612000, 4083800; 612000, 4084200; 611700, 4084200; 611700, 4085200; 611400, 4085200

Excluding lands bounded by: 620600, 4083700; 620600, 4083400; 620400, 4083400; 620400, 4082900; 620700, 4082900; 620700, 4082200; 620400, 4082200; 620400, 4081600; 619500, 4081600; 619500, 4081300; 620100, 4081300; 620100, 4081400; 620600, 4081400; 620600, 4080900; 620700, 4080900; 620700, 4081100; 620800, 4081100; 620800, 4081400; 621000, 4081400; 621000, 4081800; 621100, 4081800; 621100, 4082000; 621200, 4082000; 621200, 4082400; 621700, 4082400; 621700, 4082500; 622200, 4082500; 622200, 4082900; 621700, 4082900; 621700, 4082700; 621200, 4082700; 621200, 4083400; 621100, 4083400; 621100, 4083700; 620600, 4083700

Excluding lands bounded by: 621600, 4083300; 621600, 4083100; 622100, 4083100; 622100, 4083300; 621600, 4083300

Excluding lands bounded by: 611000, 4082200; 611000, 4082000; 611100, 4082000; 611100, 4081800; 611200, 4081800; 611200, 4081600; 611400, 4081600; 611400, 4080800; 611300, 4080800; 611300, 4080500; 611700, 4080500; 611700, 4081000; 611800, 4081000; 611800, 4081600; 611700, 4081600; 611700, 4081700; 611500, 4081700; 611500, 4082200; 611000, 4082200

Excluding lands bounded by: 612600, 4082200; 612600, 4080800; 612400, 4080800; 612400, 4080300; 613100, 4080300; 613100, 4081400; 613200, 4081400; 613200, 4082100; 613100, 4082100; 613100, 4082200; 612600, 4082200

Excluding lands bounded by: 610300, 4081600; 610300, 4081000; 610600, 4081000; 610600, 4081600; 610300, 4081600

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Unit 18. Carmel River: Monterey county, California. From USGS 1:24,000 quadrangle maps Big Sur,

Carmel Valley, Chew's Ridge, Chualar, Monterey, Mt. Carmel, Palo Escrito Peak, Rana Creek, Seaside, Spreckels, Sycamore Flat, Ventana Cones, lands bounded by the following UTM zone 10 NAD83 coordinates (E, N): 603000, 4047300; 603200, 4047300; 603200, 4047200; 603300, 4047200; 603300, 4047000; 603400, 4047000; 603400, 4046800; 603500, 4046800; 603500, 4046700; 603600, 4046700; 603600, 4046600; 604000, 4046600; 604000, 4046700; 604300, 4046700; 604300, 4046800; 604600, 4046800; 604600, 4046900; 605000, 4046900; 605000, 4046800; 605500, 4046800; 605500, 4046700; 605600, 4046700; 605600, 4046800; 605900, 4046800; 605900, 4046700; 606000, 4046700; 606000, 4046500; 606100, 4046500; 606100, 4046400; 606200, 4046400; 606200, 4046200; 606300, 4046200; 606300, 4045900; 606400, 4045900; 606400, 4045600; 606500,

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Unit 19. The Pinnacles: San Benito and Monterey counties, California. From USGS 1:24,000 quadrangle maps Bickmore Canyon, Mount Joohnson, North Chalone Peak, Topo Valley, lands bounded by the following UTM zone 10 NAD83 coordinates (E, N): 659400, 4046900; 659800, 4046900; 659800, 4046800; 659900, 4046800; 659900, 4046700; 660000, 4046700; 660000, 4046600; 660200, 4046600; 660200, 4046500; 660400, 4046500; 660400, 4046400; 660600, 4046400; 660600, 4046300; 660700, 4046300; 660700, 4046100; 660900, 4046100; 660900, 4046000; 661300, 4046000; 661300, 4046100; 661500, 4046100; 661500, 4046200; 662000, 4046200; 662000, 4046300; 662100, 4046300; 662100, 4046200; 662200, 4046200; 662200, 4045900; 662300, 4045900; 662300, 4045800; 662400, 4045800; 662400, 4045600; 662600, 4045600; 662600, 4045500; 662900, 4045500; 662900, 4045400; 663000, 4045400; 663000, 4045000; 663200, 4045000; 663200, 4044900; 663300,

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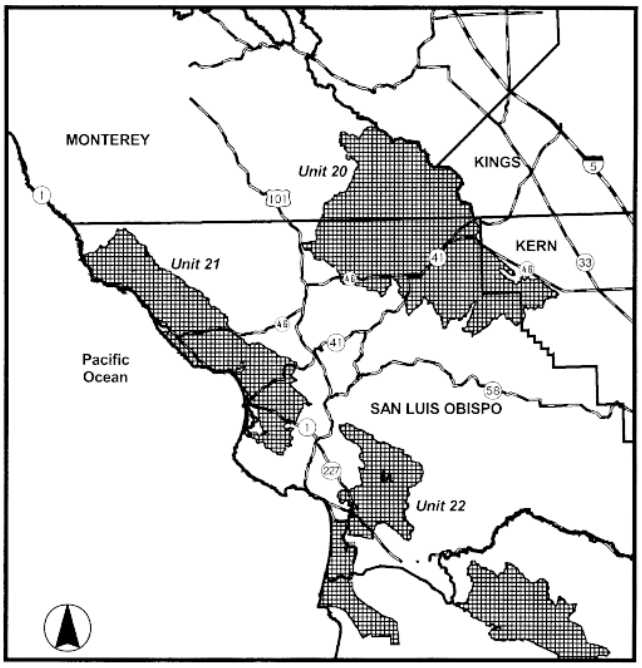

Map 8 - Critical Habitat
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California Red-Legged Frog

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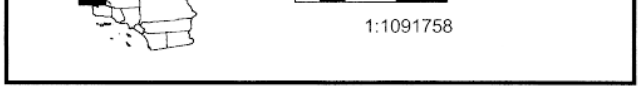

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Unit 20. Estrella River/Cholame Creek: Monterey, San Luis Obispo, and Kern counties, California. From USGS 1:24,000 quadrangle maps Camatta Canyon, Cholame Hills, Curry Mountain, Estrella, Garza Peak, Holland Canyon, Orchard Peak, Packwood Creek, Parkfield, Paso Robles, Ranchito Canyon, San Miguel, Sawtooth Ridge, Shandon, Shedd Canyon, Smith Mountain, Stockdale Mtn, Tent Hills, and The Dark Hole, lands bounded by the following UTM zone 10 NAD83 coordinates (E, N): Subunit A (West) 726100, 3987300; 726200, 3987300; 726200, 3987200; 726300, 3987200; 726300, 3987100; 726400, 3987100; 726400, 3987000; 726600, 3987000; 726600, 3986900; 727500, 3986900; 727500, 3986800; 727700, 3986800; 727700, 3986600; 727800, 3986600; 727800, 3986500; 728000, 3986500; 728000, 3986300; 728100, 3986300; 728100, 3986200; 728400, 3986200; 728400, 3986100; 729000, 3986100; 729000, 3986000; 729200, 3986000; 729200, 3985900; 729300, 3985900; 729300, 3985800; 729500, 3985800; 729500, 3985700; 729800, 3985700; 729800, 3985600; 729900, 3985600; 729900, 3985200; 730100, 3985200; 730100, 3985100; 730200, 3985100; 730200, 3985000; 730300, 3985000; 730300, 3984900; 730400, 3984900; 730400, 3984800; 730600, 3984800; 730600, 3984700;

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Excluding lands bounded by: 719200, 3948900; 719200, 3948100; 720000, 3948100; 720000, 3948900; 719200, 3948900.

Subunit B (East): lands bounded by the following UTM zone 11 NAD83 coordinates (E, N): 228200, 3945800; 228700, 3945800; 228700, 3945700; 229000, 3945700; 229000, 3945500; 229100, 3945500; 229100, 3945400; 229200, 3945400; 229200, 3945300; 229300, 3945300; 229300, 3945200; 229400, 3945200; 229400, 3945100; 229600, 3945100; 229600, 3945000; 229700, 3945000; 229700, 3944900; 229800, 3944900; 229800, 3944800; 230000, 3944800; 230000, 3944700; 230100, 3944700; 230100, 3944500; 230000, 3944500; 230000, 3944300; 229900, 3944300; 229900, 3944200; 229700, 3944200; 229700, 3944100; 229400, 3944100; 229400, 3943800; 229300, 3943800; 229300, 3943600; 229100, 3943600; 229100, 3943700; 229000, 3943700; 229000, 3943800; 228900, 3943800; 228900, 3943900; 228500, 3943900; 228500, 3943800; 228400, 3943800; 228400, 3943900; 228200, 3943900; 228200, 3945800.

Unit 21. San Simeon-Morro Bay: San Luis Obispo County, California. From USGS 1:24,000 quadrangle maps Atascadero, Burnett Peak, Cambria, Cayucos, Cypress Mountain, Lime Mountain, Morro Bay North, Morro Bay South, Pebblestone Shut-In, Pico Creek, Piedras Blancas, San Luis Obispo, San Simeon, York Mountain, land bounded by the following UTM zone 10 NAD83 coordinates (E,N): 663300, 3961300; 663700, 3961300; 663700, 3961200; 663800, 3961200; 663800, 3961000; 663900, 3961000; 663900, 3960900; 664000, 3960900; 664000, 3960800; 664100, 3960800; 664100, 3960700; 664200, 3960700; 664200, 3960600; 664300, 3960600; 664300, 3960500; 664400, 3960500; 664400, 3960400; 664500, 3960400; 664500, 3960300; 664800, 3960300; 664800, 3960200; 665000, 3960200; 665000, 3960000; 665200, 3960000; 665200, 3959900; 665400, 3959900; 665400, 3959800; 665500, 3959800; 665500, 3959700; 665600, 3959700; 665600, 3959600; 665700, 3959600; 665700, 3959500; 665900, 3959500; 665900, 3959400; 666000, 3959400; 666000, 3959200; 666100, 3959200; 666100, 3959100; 666200, 3959100; 666200,

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Unit 22. Lopez Lake-Arroyo Grande Creek: San Luis Obispo County, California. From USGS 1:24,000 quadrangle maps Arroyo Grande NE, Caldwell Mesa, Lopez Mtn, Nipomo, Oceano, Santa Margarita Lake, Tar Spring Ridge, land bounded by the following UTM zone 10 NAD83 coordinates (E, N): Subunit A (North) 719900, 3911600; 720200, 3911600; 720200, 3911500; 720600, 3911500; 720600, 3911400; 720700, 3911400; 720700, 3911300; 721000, 3911300; 721000, 3911200; 721100, 3911200; 721100, 3911000; 721200, 3911000; 721200, 3911100; 721500, 3911100; 721500, 3911000; 721700, 3911000; 721700, 3910800; 721800, 3910800; 721800, 3910600; 722100, 3910600; 722100, 3910500; 722300, 3910500; 722300, 3910400; 722400, 3910400; 722400, 3910300; 722600, 3910300; 722600, 3910200; 723200, 3910200; 723200, 3910100; 723400, 3910100; 723400, 3910000; 723600, 3910000; 723600, 3909900; 723900, 3909900; 723900, 3909800; 724000, 3909800; 724000, 3909700; 724100, 3909700; 724100, 3909600; 724300, 3909600; 724300,

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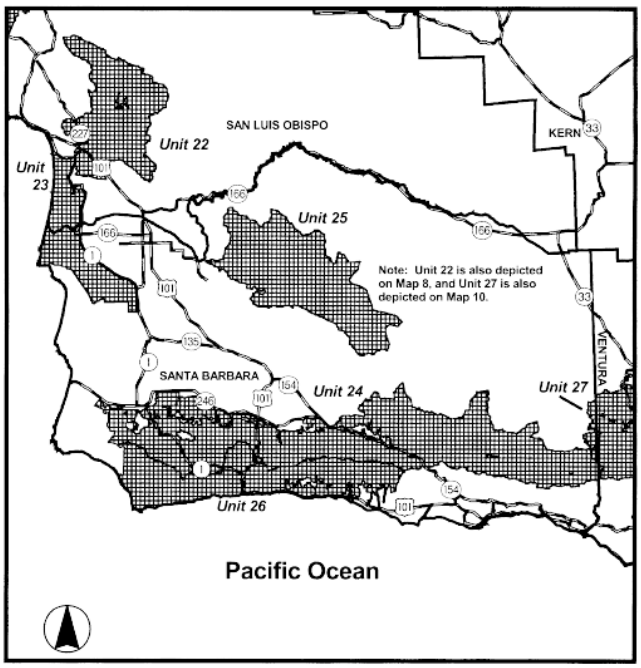

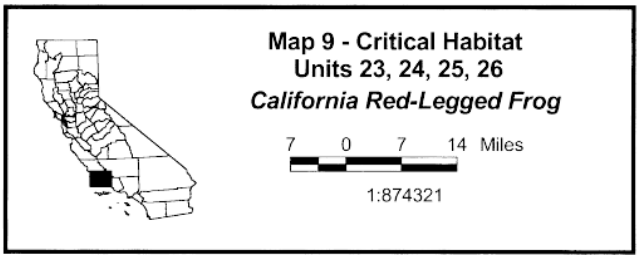

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Unit 23. Coastal Dunes: San Luis Obispo and Santa Barbara counties, California. From USGS 1:24,000 quadrangle maps Casmalia, Guadalupe, Oceano, Orcutt, Point Sal, Santa Maria, land bounded by the following UTM zone 10 NAD83 coordinates (E,N): 720100, 3886600; 720400, 3886600; 720400, 3885600; 720300, 3885600; 720300, 3885200; 720200, 3885200; 720200, 3884900; 720100, 3884900; 720100,

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Unit 24. Santa Ynez River: Santa Ynez River, Santa Barbara County, California. From USGS 1:24,000 quadrangle maps Surf, Lompoc, Los Alamos, Figueroa Mountain, San Rafael Mountain, Big Pine Mountain, Tranquillon Mountain, Lompoc Hills, Santa Rosa Hills, Solvang, Santa Ynez, Lake Cachuma, San Marcos Pass, Little Pine Mountain, Hildreth Peak, Old Man Mountain, Santa Barbara, Carpinteria, and White Ledge Peak. Beginning at 120° West Longitude at UTM zone 10 NAD83 y-coordinate 3824900, proceeding west into UTM zone 10, lands bounded by the following UTM zone 10 NAD83 coordinates (E, N): 775200, 3824900; 774500, 3824900; 774500, 3825000; 774300, 3825000; 774300, 3825100; 774000, 3825100; 774000, 3825200; 773700, 3825200; 773700, 3825300; 773400, 3825300; 773400, 3825400; 772600, 3825400; 772600, 3825300; 772200, 3825300; 772200, 3825200; 771900, 3825200; 771900, 3825300; 771700, 3825300; 771700, 3825400; 771500, 3825400; 771500, 3825500; 771300, 3825500; 771300, 3825600; 770900, 3825600; 770900, 3825700; 770700, 3825700; 770700, 3825500; 770600, 3825500; 770600, 3825300; 770500, 3825300; 770500, 3825200; 770000, 3825200; 770000, 3825100; 769700, 3825100; 769700, 3825200; 769600, 3825200; 769600, 3825100; 769500, 3825100; 769500, 3825000; 769200, 3825000; 769200, 3824900; 769100, 3824900; 769100, 3825000; 768800, 3825000; 768800, 3825100;

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Unit 25. Sisquoc River: Sisquoc River, Santa Barbara County, California. From USGS 1:24,000 quadrangle maps Twitchell Dam, Tepusquet Canyon, Manzanita Mountain, Bates Canyon, Sisquoc, Foxen Canyon, Zaca Lake, Bald Mountain, Hurricane Deck, and Figueroa Mountain. Beginning at 120° West Longitude at UTM NAD83 y-coordinate 3851400, proceeding west into UTM zone 10, lands bounded by the following UTM zone 10 NAD83 coordinates (E, N): 774100, 3851400; 774100, 3851500; 774000, 3851500; 774000, 3851700; 773900, 3851700; 773900, 3851900; 773800, 3851900; 773800, 3852100; 773700, 3852100;

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Unit 26. Coastal Santa Barbara: Santa Barbara County, California. From USGS 1:24,000 quadrangle maps Surf OE W, Surf, Point Arguello, Tranquillon Mountain, Lompoc Hills, Santa Rosa Hills, Solvang, Santa Ynez, Lake Cachuma, San Marcos Pass, Point Conception, Sacate, Gaviota, Tajiguas, and Dos Pueblos Canyon. Beginning at 120° West Longitude at UTM NAD83 y-coordinate 3817900, proceeding west into UTM zone 10, lands bounded by the following UTM zone 10 NAD83 coordinates (E, N): 774800, 3817900; 774800, 3817800; 774700, 3817800; 774700, 3817700; 774600, 3817700; 774600, 3817600; 774300, 3817600; 774300, 3817400; 773800, 3817400; 773800, 3817300; 773700, 3817300; 773700, 3817200; 773600, 3817200; 773600, 3817000; 773300, 3817000; 773300, 3817100; 773200, 3817100; 773200, 3817200; 773000, 3817200; 773000, 3817300; 772800,

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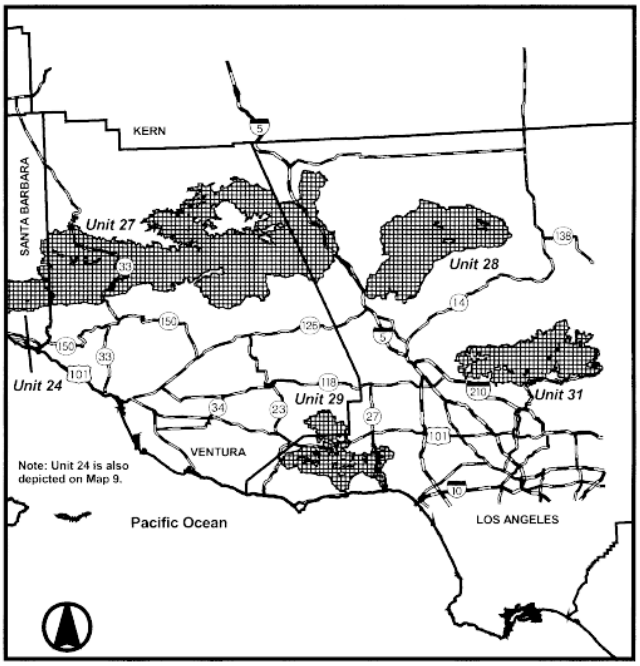

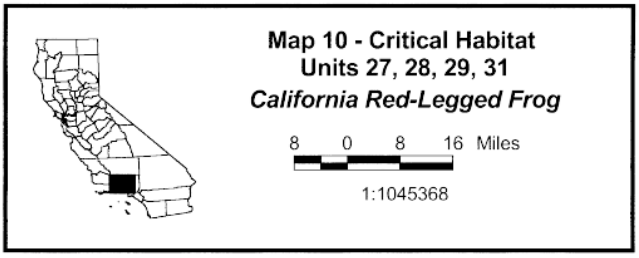

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Unit 27. Matilija-Sespe-Piru: Santa Barbara, Ventura, and Los Angeles Counties, California. From USGS 1:24,000 quadrangle maps Lebec, La Liebre Ranch, Rancho Nuevo Creek, Reyes Peak, San Guillermo Mountain, Lockwood Valley, Alamo Mountain, Black Mountain, Liebre Mountain, Old Man Mountain, Wheeler Springs, Lion Canyon, Topatopa Mountains, Devils Heart Peak, Cobblestone Mountain, Whitaker Peak, White Ledge Peak, Matilija, Ojai, Santa Paula Peak, Fillmore, and Piru, lands bounded by the following UTM zone 11 NAD83 coordinates (E, N): 309600, 3822700; 309500, 3822700; 309500, 3822600; 309400, 3822600; 309400, 3822500; 309200, 3822500; 309200, 3822600; 309000, 3822600; 309000, 3822700; 308900, 3822700; 308900, 3822600; 308800, 3822600; 308800, 3822500; 308700, 3822500; 308700, 3822000; 308500, 3822000; 308500, 3822100; 308300, 3822100; 308300, 3822200; 308200, 3822200; 308200, 3822000; 308300, 3822000; 308300, 3821900; 308200, 3821900; 308200, 3821700; 308300, 3821700; 308300, 3821600; 308500, 3821600; 308500, 3821500; 308300, 3821500; 308300, 3821400; 308200, 3821400; 308200, 3821500; 308100, 3821500; 308100, 3821400; 307900, 3821400; 307900, 3821500; 307700, 3821500; 307700, 3821200; 307500, 3821200; 307500, 3821100; 307200, 3821100; 307200, 3821000; 306900,

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Unit 28. San Francisquito-Amargosa Creek: Los Angeles County, California. From USGS 1:24:000 quadrangle maps Burnt Peak, Lake Hughes, Del Sur, Lancaster West, Warm Springs Mountain, Green Valley, Sleepy Valley, Ritter Ridge, Palmdale, Newhall, and Mint Canyon, lands bounded by the following UTM zone 11 NAD83 coordinates (E, N): 362800, 3814600; 362700, 3814600; 362700, 3814500; 362600, 3814500; 362600, 3814400; 362500, 3814400; 362500, 3814200; 362100, 3814200; 362100, 3813400; 361700, 3813400; 361700, 3813300; 361300, 3813300; 361300, 3813400; 361200, 3813400; 361200, 3814000; 361300, 3814000; 361300, 3814100; 360900, 3814100; 360900, 3814200; 360600, 3814200; 360600, 3814100; 360000, 3814100; 360000, 3814200; 359800, 3814200; 359800, 3814300; 359500, 3814300; 359500, 3815200; 359800, 3815200; 359800, 3815300; 360000, 3815300; 360000, 3815400; 359900, 3815400; 359900, 3815500; 359700, 3815500; 359700, 3815700; 359800, 3815700; 359800, 3816000; 359400, 3816000; 359400, 3815900; 359300, 3815900; 359300, 3816000; 358700, 3816000; 358700, 3816100; 358600, 3816100; 358600, 3816200; 358500, 3816200; 358500, 3816500; 358400, 3816500; 358400, 3816900; 358300, 3816900; 358300, 3817000; 358200, 3817000; 358200,

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Unit 29. Malibu Coastal: Los Angeles and Ventura Counties, California. From USGS 1:24,000 quadrangle maps Thousand Oaks, Calabasas, Canoga Park, Point Dume, Malibu, and Topanga, land bounded by the following UTM zone 11 NAD83 coordinates (E, N): 349500, 3777200; 349500, 3777300; 349600, 3777300; 349600, 3777500; 349700, 3777500; 349700, 3777400; 349800, 3777400; 349800, 3777300; 350100, 3777300; 350100, 3777100; 350200, 3777100; 350200, 3777000; 350400, 3777000; 350400, 3776900; 351200, 3776900; 351200, 3777000; 351300, 3777000; 351300, 3777400; 351400, 3777400; 351400, 3777500; 351500, 3777500; 351500, 3777700; 351600, 3777700; 351600, 3777800; 351700, 3777800; 351700, 3778200; 351800, 3778200; 351800, 3778300; 351900, 3778300; 351900, 3778400; 352000, 3778400; 352000, 3778500; 352100, 3778500; 352100, 3778700; 352200, 3778700; 352200, 3778600; 352300, 3778600; 352300, 3778700; 352400, 3778700; 352400,

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Unit 31. Tujunga: Los Angeles County, California. From USGS 1:24,000 quadrangle maps Acton, Pacifico Mountain, San Fernando, Sunland, Condor Peak, Chilao Flat, and Waterman Mountain, lands bounded by the following UTM zone 11 NAD83 coordinates (E, N): 397200, 3794500; 397100, 3794500; 397100, 3794400; 396800, 3794400; 396800, 3794500; 396700, 3794500; 396700, 3794600; 396500, 3794600; 396500, 3794700; 396100, 3794700; 396100, 3794500; 395900, 3794500; 395900, 3794300; 395800, 3794300; 395800, 3794200; 395700, 3794200; 395700, 3794100; 394600, 3794100; 394600, 3793700; 394700, 3793700; 394700, 3793100; 394500, 3793100; 394500, 3793000; 394100, 3793000; 394100, 3792900; 393800, 3792900; 393800, 3792700; 393700, 3792700; 393700, 3792600; 393600, 3792600; 393600, 3792500; 393500, 3792500; 393500, 3792400; 393400, 3792400; 393400, 3792300; 393100, 3792300; 393100, 3792500; 393000, 3792500; 393000, 3792600;

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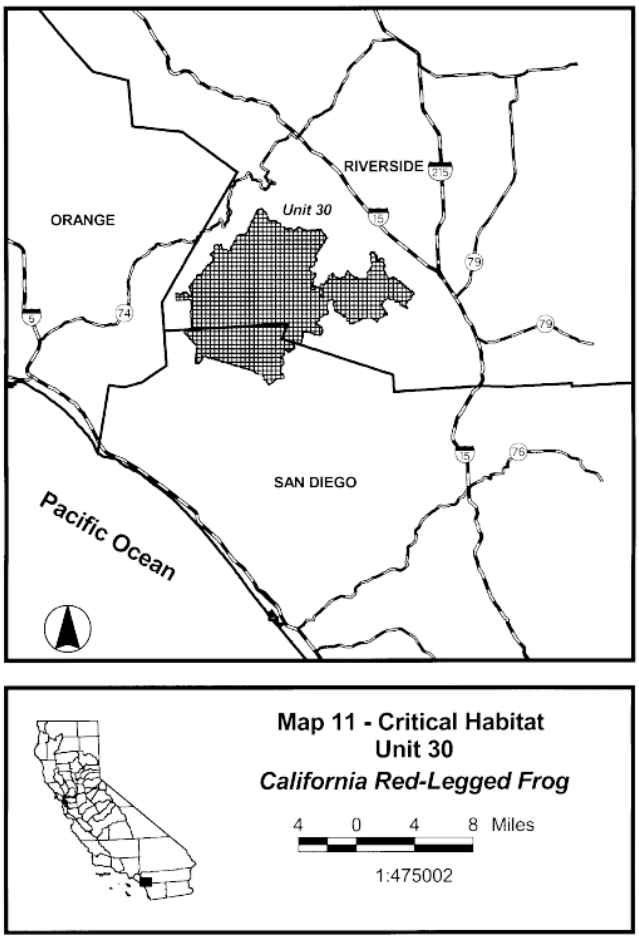

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Unit 30. Santa Rosa Plateau/Santa Ana Mountains: Santa Rosa Plateau/Santa Ana Mountains, Riverside and San Diego Counties, California. From USGS 1:24,000 quadrangle maps Sitton Peak, Wildomar, Murrieta, Margarita Peak, and Fallbrook, lands bounded by the following UTM zone 11 NAD83 coordinates (E, N): 464000, 3720300; 464200, 3720300; 464200, 3720200; 464300, 3720200; 464300, 3720000; 464400, 3720000; 464400, 3719900; 464600, 3719900; 464600, 3719700; 464700, 3719700; 464700, 3719300; 464800, 3719300; 464800, 3719000; 464900, 3719000; 464900, 3718900; 465600, 3718900; 465600, 3718800; 465700, 3718800; 465700, 3718700; 465800, 3718700; 465800, 3718600; 466100, 3718600; 466100, 3718100; 466500, 3718100; 466500, 3718000; 466700, 3718000; 466700, 3717900; 466800, 3717900; 466800, 3717800; 467000, 3717800; 467000, 3717900; 467300, 3717900; 467300, 3717800; 467400, 3717800; 467400, 3717700; 467700, 3717700; 467700, 3717800; 467900, 3717800; 467900, 3717900; 468000, 3717900;

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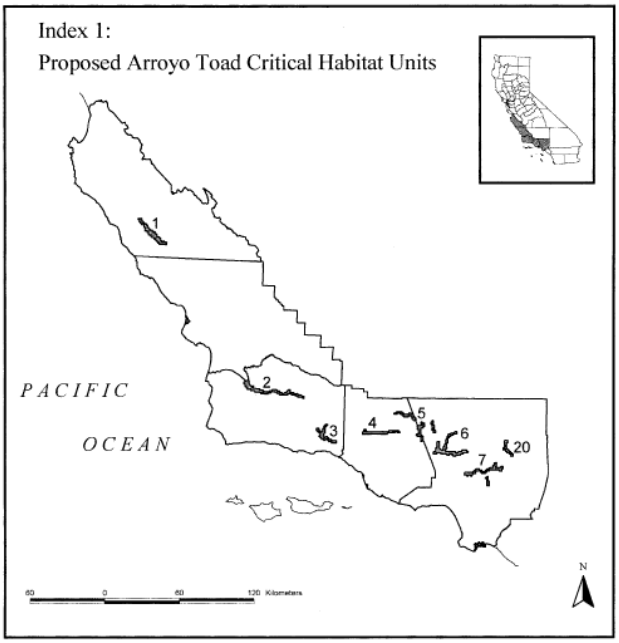
Arroyo Toad (Bufo californicus)

1. Critical habitat units are depicted for Monterey, Santa Barbara, Ventura, Los Angeles, San Bernardino, Riverside, Orange, and San Diego counties, California, on the maps below.

2. Critical habitat includes stream and river courses, riparian habitats, and adjacent terrace and upland habitats.

3. Within these areas, primary constituent elements for the arroyo toad include a hydrologic regime that supplies sufficient flowing water of suitable quality at the appropriate times to provide space, food, and cover needed to sustain eggs, tadpoles, metamorphosing juveniles, and adult breeding toads; low-gradient stream segments (typically less than 4 percent) with sandy or fine gravel substrates which support the formation of shallow pools and sparsely vegetated sand and gravel bars for breeding and rearing of tadpoles and juveniles; a natural flooding regime or one sufficiently corresponding to a natural regime that will periodically scour riparian vegetation, rework stream channels and terraces, and redistribute sands and sediments, such that adequate numbers and sizes of breeding pools and sufficient terrace habitats with appropriate vegetation are maintained to provide for the needs of all life stages of the toad; upland habitats of sufficient width and quality (*i.e.*, with areas of loose, sandy soil where toads can burrow underground) to provide foraging and living areas for subadult and adult arroyo toads (loose, sandy soils are typically most prevalent on alluvial terraces and valley bottomlands and occur primarily, but not exclusively, within 1.5 km (0.9 mi) of the streamcourse and less than 25 m (80 ft) in elevation above the adjacent stream channel); few or no nonnative species that prey upon or compete with arroyo toads, or degrade their habitat; stream channels and upland habitats where manmade barriers do not completely or substantially impede migration to overwintering sites, dispersal between populations, or recolonization of temporarily unoccupied areas that contain suitable habitat; and habitats free of, or with limited levels of, land use activities that substantially reconfigure stream channels, remove or impede the deposition of sand and gravel deposits, compact soils, or crush individual toads (see maps labeled Index 1 and Index 2 for overview of proposed critical habitat).

4. Critical habitat does not include existing features and structures, such as building, aqueducts, airports, and other developed areas not containing one or more of the primary constituent elements.



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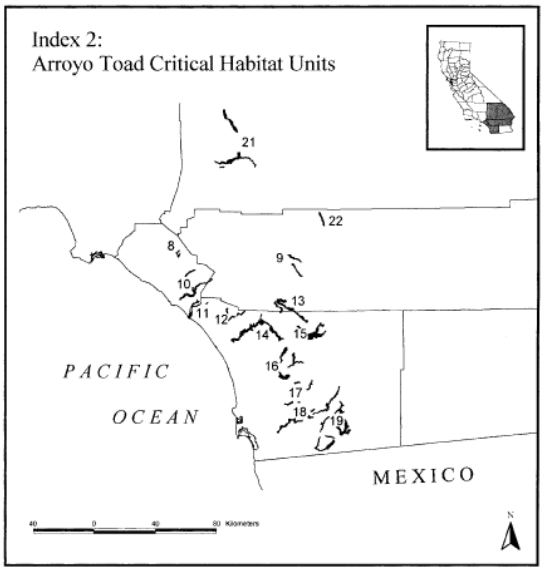

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Map Unit 1: San Antonio River, Monterey County, California. From USGS 1:24,000 quadrangle maps Bear Canyon, Cosio Knob, Jolon, and Williams Hill, the lands bounded by the following Universal Transverse Mercator (UTM) zone 10, North American Datum 1927 (NAD27) coordinates (E, N): 656250, 3988250; 655500, 3988250; 655500, 3988750; 657000, 3988750; 657000, 3988250; 656750, 3988250; 656750, 3987750; 657000, 3987750; 657000, 3987000; 657500, 3987000; 657500, 3986500; 658000, 3986500; 658000, 3986000; 658250, 3986000; 658250, 3985750; 658500, 3985750; 658500, 3985500; 658750, 3985500; 658750, 3985000; 659000, 3985000; 659000, 3984500; 659500, 3984500; 659500, 3984000; 659250, 3984000; 659250, 3983750; 659750, 3983750; 659750, 3983500; 660000, 3983500; 660000, 3983250; 660500, 3983250; 660500, 3983000; 660750, 3983000; 660750, 3982750; 661000, 3982750;

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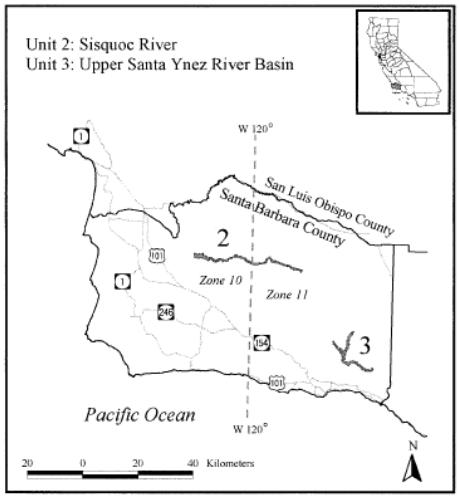

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Map Unit 2: Sisquoc River, Santa Barbara and San Luis Obispo Counties, California. From USGS 1:24,000 quadrangle maps Foxen Canyon, Zaca Lake, Bald Mtn., and Hurricane Deck. Beginning at 120 degrees West Longitude at UTM zone 10, NAD27 y-coordinate 3857500, the lands bounded by the following UTM zone 10, NAD27 coordinates (E, N): 773750, 3837500; 773750, 3858000; 772750, 3858000; 772750, 3858250; 772250, 3858250; 772250, 3858500; 771750, 3858500; 771750, 3859000; 771500, 3859000; 771500, 3859250; 770250, 3859250; 770250, 3859500; 769000, 3859500; 769000, 3859750; 768750, 3859750; 768750, 3860000; 768500, 3860000; 768500, 3859500; 767250, 3859500; 767250, 3859250; 767000, 3859250; 767000, 3859000; 766000, 3859000; 766000, 3858500; 765750, 3858500; 765750, 3858000; 764000, 3858000; 764000, 3857750; 763500, 3857750; 763500, 3858250; 762750, 3858250; 762750, 3858000; 762250, 3858000; 762250, 3857750; 761750, 3857750; 761750, 3857500; 760500, 3857500; 760500, 3857750; 760250, 3857750; 760250, 3858000; 759750, 3858000; 759750, 3858250; 759500, 3858250; 759500, 3858500; 759000, 3858500; 759000, 3858000; 758750, 3858000; 758750, 3857750; 758500, 3857750; 758500, 3858000; 757750, 3858000; 757750, 3858250; 757250, 3858250; 757250, 3858500; 756250, 3858500; 756250, 3858750; 755500, 3858750; 755500, 3858500; 753500, 3858500; 753500, 3859750; 753250, 3859750; 753250, 3860250; 754500, 3860250; 754500, 3860000; 755000, 3860000; 755000, 3860250; 756250, 3860250; 756250, 3860500; 756750, 3860500; 756750, 3859750; 757750, 3859750; 757750, 3859500; 758000, 3859500; 758000, 3859250; 758250, 3859250; 758250, 3859000; 758500, 3859000; 758500, 3858750; 758750, 3858750; 758750, 3859250; 759750, 3859250; 759750, 3859000; 760000, 3859000; 760000, 3858750; 760500, 3858750; 760500, 3858500; 761000, 3858500; 761000, 3858000; 761250, 3858000; 761250, 3858250; 761750, 3858250; 761750, 3858750; 762250, 3858750; 762250, 3859000; 762500, 3859000; 762500, 3858750; 762750, 3858750; 762750, 3859000; 763000, 3859000; 763000, 3858750; 764000, 3858750; 764000, 3858500; 765000, 3858500; 765000, 3858750; 765250, 3858750; 765250, 3859000; 765750, 3859000; 765750, 3859250; 766000, 3859250; 766000, 3859500; 766500, 3859500; 766500, 3859750; 767250, 3859750; 767250, 3860000; 767750, 3860000; 767750, 3860500; 768250, 3860500; 768250, 3860750; 769000, 3860750; 769000, 3860250; 770500, 3860250; 770500, 3860000; 771000, 3860000; 771000, 3859750; 772000, 3859750; 772000, 3859500; 772250, 3859500; 772250, 3859000; 773000, 3859000; 773000, 3858750; 773500, 3858750; 773500, 3858500; 774250, 3858500; 774250, 3858000; to 120 degrees West Longitude at UTM zone 10, NAD27 y-coordinate 3858000; excluding land bounded by 756750, 3859750; 756500, 3859750; 756500, 3859500; 756750, 3859500; 756750, 3859750; thence from 120 degrees West Longitude at UTM zone 11, NAD27 y-coordinate 3858000; the lands bounded by the following UTM zone 11, NAD27 coordinates (E, N): 228250, 3858000; 228250, 3858250; 228500, 3858250; 228500, 3858000; 229500, 3858000; 229500, 3858250; 230250, 3858250; 230250, 3858750; 230500, 3858750; 230500, 3859500; 230750, 3859500; 230750, 3859750; 231500, 3859750; 231500, 3860000; 231750, 3860000; 231750, 3860250; 232250, 3860250; 232250, 3859750; 232500, 3859750; 232500, 3859500; 232750, 3859500; 232750, 3859000; 233000, 3859000; 233000, 3858750; 233750, 3858750; 233750, 3859000; 234000, 3859000; 234000, 3858750; 234250, 3858750; 234250, 3858500; 235250, 3858500; 235250, 3858250; 235500, 3858250; 235500, 3858000; 236500, 3858000; 236500, 3857750; 237500, 3857750; 237500,

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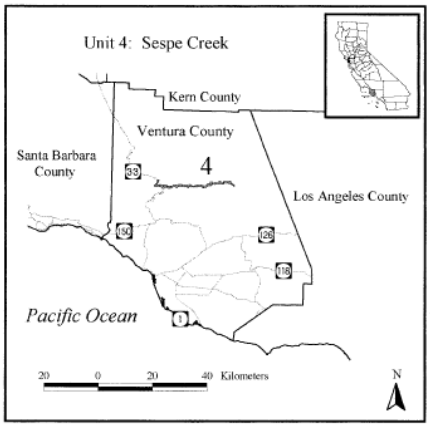
All remaining critical habitat units are in Universal Transverse Mercator zone 11, North American Datum 1927 (NAD27).

Map Unit 3: Upper Santa Ynez River Basin, Santa Barbara County, California. From USGS 1:24,000 quadrangle maps Little Pine Mtn., Hildreth Peak, and Carpinteria, the lands bounded by the following UTM coordinates (E, N): 261750, 3833000; 262500, 3833000; 262500, 3832750; 262250, 3832750; 262250, 3832250; 262000, 3832250; 262000, 3831750; 261750, 3831750; 261750, 3831500; 261500, 3831500; 261500, 3831250; 261250, 3831250; 261250, 3831000; 261000, 3831000; 261000, 3830250; 260750, 3830250; 260750, 3830000; 261000, 3830000; 261000, 3829750; 260750, 3829750; 260750, 3829250; 260500, 3829250; 260500, 3828500; 261000, 3828500; 261000, 3828250; 260750, 3828250; 260750, 3828000; 260500, 3828000; 260500, 3826750; 260250, 3826750; 260250, 3826500; 260000, 3826500; 260000, 3826000; 259500, 3826000; 259500, 3825750; 259750, 3825750; 259750, 3825500; 259500, 3825500; 259500, 3824750; 259000, 3824750; 259000, 3824500; 259500, 3824500; 259500, 3824250; 259000, 3824250; 259000, 3823750; 259250, 3823750; 259250, 3822750; 258750, 3822750; 258750, 3822500; 258500, 3822500; 258500, 3822250; 259000, 3822250; 259000, 3822000; 260250, 3822000; 260250, 3821750; 261000, 3821750; 261000, 3822250; 262000, 3822250; 262000, 3822500; 262250, 3822500; 262250, 3822250; 262750, 3822250; 262750, 3822000; 263750, 3822000; 263750, 3821250; 264000, 3821250; 264000, 3821000; 264750, 3821000; 264750, 3820750; 265000, 3820750; 265000, 3820500; 265250, 3820500; 265250, 3820000; 265500, 3820000; 265500, 3820250; 265750, 3820250; 265750, 3819750; 266500, 3819750; 266500, 3819500; 266750, 3819500; 266750, 3819250; 267750, 3819250; 267750, 3819000; 268500, 3819000; 268500, 3819250; 268750, 3819250; 268750, 3819750; 269500, 3819750; 269500, 3819250; 269250, 3819250; 269250, 3818750; 269000, 3818750; 269000, 3818500; 266500, 3818500; 266500, 3818750; 266250, 3818750; 266250, 3819000; 265250, 3819000; 265250, 3819500; 264750, 3819500; 264750, 3820250; 264250, 3820250; 264250, 3820500; 263750, 3820500; 263750, 3820750; 263500, 3820750; 263500, 3821000; 263000, 3821000; 263000, 3821500; 261250, 3821500; 261250, 3821250; 261000, 3821250; 261000, 3821000; 260750, 3821000; 260750, 3820500; 260250, 3820500; 260250, 3821000; 259750, 3821000; 259750, 3821250; 259000, 3821250; 259000, 3821500; 258500, 3821500; 258500, 3821750; 258250, 3821750; 258250, 3822000; 258000, 3822000; 258000, 3823000; 258250, 3823000; 258250, 3823250; 258500, 3823250; 258500, 3823750; 258000, 3823750; 258000, 3824500; 257750, 3824500; 257750, 3825000; 257500, 3825000; 257500, 3825250; 257250, 3825250; 257250, 3826000; 256750, 3826000; 256750, 3826250; 256500, 3826250; 256500, 3826500; 256250, 3826500; 256250, 3826750; 256000, 3826750; 256000, 3827500; 255500, 3827500; 255500, 3828000; 255250, 3828000; 255250, 3828250; 254750, 3828250; 254750, 3828750; 255000, 3828750; 255000, 3829000; 254750, 3829000; 254750, 3829500; 255250, 3829500; 255250, 3829250; 255500, 3829250; 255500, 3828750; 255750, 3828750; 255750, 3828250; 256000, 3828250; 256000, 3828000; 256250, 3828000; 256250, 3827750; 256500, 3827750; 256500, 3827250; 256750, 3827250; 256750, 3826750; 257250, 3826750; 257250, 3827000; 257750, 3827000; 257750, 3826750; 258000, 3826750; 258000, 3826500; 258250, 3826500; 258250, 3825750; 258000, 3825750; 258000, 3825500; 258250, 3825500; 258250, 3825250; 258500, 3825250; 258500, 3826000; 259250, 3826000; 259250, 3827000; 259500, 3827000; 259500, 3827250; 259750, 3827250; 259750, 3828500; 260000, 3828500; 260000, 3828750; 259750, 3828750; 259750, 3829750; 260250, 3829750; 260250, 3831250; 260500, 3831250; 260500, 3831750; 261000, 3831750; 261000, 3832250; 261250, 3832250; 261250, 3832500; 261500, 3832500; 261500, 3832750; 261750, 3832750; 261750, 3833000.



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Map Unit 4: Sespe Creek, Ventura County, California. From USGS 1:24,000 quadrangle maps Wheeler Springs, Lion Canyon, Topatopa Mts., and Devil's Heart Peak, the lands bounded by the following UTM coordinates (E, N): 292750, 3828500; 293250, 3828500; 293250, 3828000; 293000, 3828000; 293000, 3827250; 292750, 3827250; 292750, 3826500; 293250, 3826500; 293250, 3826250; 293500, 3826250; 293500, 3826750; 294000, 3826750; 294000, 3826500; 294750, 3826500; 294750, 3826000; 295000, 3826000; 295000, 3826500; 296250, 3826500; 296250, 3826250; 296500, 3826250; 296500, 3826000; 296750, 3826000; 296750, 3826250; 297750, 3826250; 297750, 3826000; 298000, 3826000; 298000, 3826250; 298250, 3826250; 298250, 3826500; 300250, 3826500; 300250, 3826750; 301750, 3826750; 301750, 3826500; 302750, 3826500; 302750, 3826250; 303000, 3826250; 303000, 3826500; 303750, 3826500; 303750, 3826250; 304250, 3826250; 304250, 3826750; 305000, 3826750; 305000, 3826500; 305250, 3826500; 305250, 3826250; 306500, 3826250; 306500, 3826500; 306750, 3826500; 306750, 3826250; 307000, 3826250; 307000, 3826500; 309500, 3826500; 309500, 3825750; 309750, 3825750;

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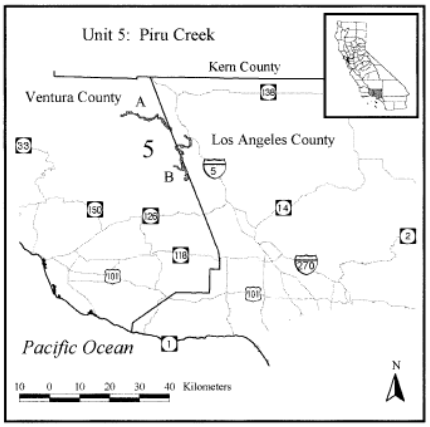

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Map Unit 5: Piru Creek, Ventura and Los Angeles Counties, California

Subunit 5a: From USGS 1:24,000 quadrangle maps Alamo Mtn., and Black Mtn., the lands upstream from Pyramid Lake bounded by the following UTM coordinates (E, N): 318750, 3842750; 319500, 3842750; 319500, 3842500; 319750, 3842500; 319750, 3842750; 320750, 3842750; 320750, 3842500; 321000, 3842500; 321000, 3842250; 322750, 3842250; 322750, 3841750; 323000, 3841750; 323000, 3841500; 323250, 3841500; 323250, 3841000; 325000, 3841000; 325000, 3840750; 325250, 3840750; 325250, 3840250; 325500, 3840250; 325500, 3840500; 326250, 3840500; 326250, 3840250; 326500, 3840250; 326500, 3840500; 327750, 3840500; 327750, 3840750; 328250, 3840750; 328250, 3841250; 328500, 3841250; 328500, 3841750; 329000, 3841750; 329000, 3842000; 329250, 3842000; 329250, 3841750; 329500, 3841750; 329500, 3841500; 329250, 3841500; 329250, 3841250; 329500, 3841250; 329500, 3840750; 330000, 3840750; 330000, 3841000; 330250, 3841000; 330250, 3840750; 330500, 3840750; 330500, 3840500; 331000, 3840500; 331000, 3840250; 331250, 3840250; 331250, 3839750; 331500, 3839750; 331500, 3839250; 332000, 3839250; 332000, 3838500; 332250, 3838500; 332250, 3838250; 332500, 3838250; 332500, 3837750; 332750, 3837750; 332750, 3837500; 333000, 3837500; 333000, 3837750; 333500, 3837750; 333500, 3837500; 333750, 3837500; 333750, 3837000; 334000, 3837000; 334000, 3836500; 333500, 3836500; 333500, 3836750; 333250, 3836750; 333250, 3837250; 333000, 3837250; 333000, 3836750; 332750, 3836750; 332750, 3837000; 332500, 3837000; 332500, 3837250; 332250, 3837250; 332250, 3837500; 332000, 3837500; 332000, 3837750; 331750, 3837750; 331750, 3838000; 331500, 3838000; 331500, 3838250; 331250, 3838250; 331250, 3838750; 331000, 3838750; 331000, 3839000; 330750, 3839000; 330750, 3839500; 330500, 3839500; 330500, 3840000; 330250, 3840000; 330250, 3840250; 329250, 3840250; 329250, 3841000; 329000, 3841000; 329000, 3841250; 328750, 3841250; 328750, 3840500; 328250, 3840500; 328250, 3840250; 327750, 3840250; 327750, 3840000; 327250, 3840000; 327250, 3839750; 326750, 3839750; 326750, 3839500; 326000, 3839500; 326000, 3839750; 324750, 3839750; 324750, 3840500; 323250, 3840500; 323250, 3840750; 323000, 3840750; 323000, 3841000; 322750, 3841000; 322750, 3841250; 322500, 3841250; 322500, 3841500; 322000, 3841500; 322000, 3841750; 321500, 3841750; 321500, 3842000; 319000, 3842000; 319000, 3841500; 318250, 3841500; 318250, 3841250; 317750, 3841250; 317750, 3841000; 317000, 3841000; 317000, 3841750; 318000, 3841750; 318000, 3842000; 318250, 3842000; 318250, 3842250; 318750, 3842250; 318750, 3842750.

Subunit 5b: From USGS 1:24,000 quadrangle maps Black Mountain, Liebre Mountain, Whitaker Peak, and Cobblestone Mountain, the lands between Pyramid Lake and Lake Piru bounded by the following UTM coordinates (E, N): 338250, 3835000; 338500, 3835000; 338500, 3834750; 338750, 3834750; 338750, 3834500; 339000, 3834500; 339000, 3834000; 340000, 3834000; 340000, 3833500; 340250, 3833500; 340250, 3833250; 340500, 3833250; 340500, 3832250; 340250, 3832250; 340250, 3832000; 340500, 3832000; 340500, 3831250; 340000, 3831250; 340000, 3831000; 339750, 3831000; 339750, 3830750; 339500, 3830750; 339500, 3830500; 339000, 3830500; 339000, 3830750; 338250, 3830750; 338250, 3831000; 338000, 3831000; 338000, 3830750; 337750, 3830750; 337750, 3830500; 337000, 3830500; 337000, 3830750; 336750, 3830750; 336750, 3831250; 336500, 3831250; 336500, 3831500; 336000, 3831500; 336000, 3831000; 335500, 3831000; 335500, 3830750; 335750, 3830750; 335750, 3830250; 336500, 3830250; 336500, 3830000; 336750, 3830000; 336750, 3829750; 337250, 3829750; 337250, 3829500; 337500, 3829500; 337500, 3829250; 337750, 3829250; 337750, 3828750; 338000, 3828750; 338000, 3828500; 337750, 3828500; 337750, 3828250; 337250, 3828250; 337250, 3827500; 337500, 3827500; 337500, 3826500; 337250, 3826500; 337250, 3826250; 337500, 3826250; 337500, 3825250; 337250, 3825250; 337250, 3825000; 337500, 3825000; 337500, 3824250; 338000, 3824250; 338000, 3824000; 338500, 3824000; 338500, 3823750; 338750, 3823750; 338750, 3823250; 339000, 3823250; 339000, 3822500; 339250, 3822500; 339250, 3822000; 339000, 3822000; 339000, 3821500; 339250,

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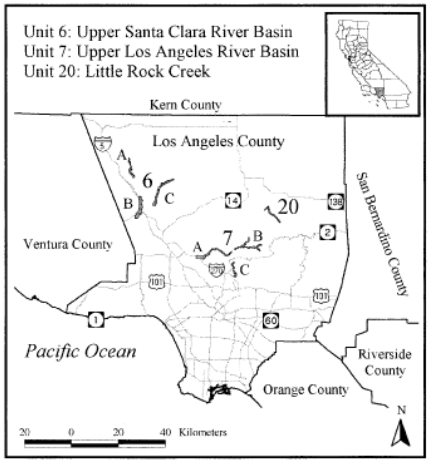

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Map Unit 6: Upper Santa Clara River basin, Los Angeles County, California

Subunit 6a: From USGS 1:24,000 quadrangle maps Liebre Mtn. and Whitaker Peak, the lands, upstream of Castaic Lake, bounded by the following UTM coordinates (E, N): 347000, 3835500; 347250, 3835500; 347250, 3835000; 347500, 3835000; 347500, 3834500; 347250, 3834500; 347250, 3834000; 347500, 3834000; 347500, 3833750; 347750, 3833750; 347750, 3832750; 348000, 3832750; 348000, 3831750; 348250, 3831750; 348250, 3831000; 347750, 3831000; 347750, 3830500; 348000, 3830500; 348000, 3830750; 348500, 3830750; 348500, 3830250; 348250, 3830250; 348250, 3830000; 347750, 3830000; 347750, 3829500; 348000, 3829500; 348000, 3829000; 348250, 3829000; 348250, 3828750; 348750, 3828750; 348750, 3828250; 349000, 3828250; 349000, 3828000; 349250, 3828000; 349250, 3827750; 349500, 3827750; 349500, 3827000; 349250, 3827000; 349250, 3826750; 348750, 3826750; 348750, 3827250; 348500, 3827250; 348500, 3827750; 348250, 3827750; 348250, 3828000; 348000, 3828000; 348000, 3828250; 347750, 3828250; 347750, 3828500; 347500, 3828500; 347500, 3828750; 347250, 3828750; 347250, 3829250; 347000, 3829250; 347000, 3830750; 347250, 3830750; 347250, 3831000; 347500, 3831000; 347500, 3831250; 347750, 3831250; 347750, 3831750; 347500, 3831750; 347500, 3832250; 347750, 3832250; 347750, 3832500; 347500, 3832500; 347500, 3832750; 347250, 3832750; 347250, 3833500; 346750, 3833500; 346750, 3834250; 347000, 3834250; 347000, 3835500.

Subunit 6b: From USGS 1:24,000 quadrangle maps Warm Springs Mountain, Val Verde, and Newhall, the lands bounded by the following UTM coordinates (E, N): 351500, 3819000; 352000, 3819000; 352000, 3818500; 352250, 3818500; 352250, 3818750; 352500, 3818750; 352500, 3817500; 353000, 3817500; 353000, 3816750; 352750, 3816750; 352750, 3816000; 352500, 3816000; 352500, 3815500; 352750, 3815500; 352750, 3814500; 353000, 3814500; 353000, 3814250; 352750, 3814250; 352750, 3813250; 352500, 3813250; 352500, 3813000; 352250, 3813000; 352250, 3812750; 352500, 3812750; 352500, 3812000; 352750, 3812000; 352750, 3811500; 352500, 3811500; 352500, 3811250; 352000, 3811250; 352000, 3811000; 351750, 3811000; 351750, 3810750; 351500, 3810750; 351500, 3810250; 351250, 3810250; 351250, 3810000; 351000, 3810000; 351000, 3809750; 350750, 3809750; 350750, 3809250; 350250, 3809250; 350250, 3809500; 350000, 3809500; 350000, 3809250; 349750, 3809250; 349750, 3809500; 349500, 3809500; 349500, 3810750; 350250, 3810750; 350250, 3811000; 350000, 3811000; 350000, 3811500; 350500, 3811500; 350500, 3812250; 351000, 3812250; 351000, 3813000; 351250, 3813000; 351250, 3813750; 351500, 3813750; 351500, 3817500; 351250, 3817500; 351250, 3818500; 351000, 3818500; 351000, 3818750; 351500, 3818750; 351500, 3819000.

Subunit 6c: From USGS 1:24,000 quadrangle maps Warm Springs Mtn., Green Valley, and Newhall, the lands bounded by the following UTM coordinates (E, N): 365750, 3826500; 366000, 3826500; 366000, 3826250; 366250, 3826250; 366250, 3825750; 365500, 3825750; 365500, 3825500; 365000, 3825500; 365000, 3825250; 364500, 3825250; 364500, 3825000; 364000, 3825000; 364000, 3824750; 363500, 3824750; 363500, 3824500; 363000, 3824500; 363000, 3824250; 362500, 3824250; 362500, 3824000; 362000, 3824000; 362000, 3823750; 361500, 3823750; 361500, 3823500; 361250, 3823500; 361250, 3823250; 361000, 3823250; 361000, 3823000; 360750, 3823000; 360750, 3822750; 360500, 3822750; 360500, 3822500; 360250, 3822500; 360250, 3822000; 360000, 3822000; 360000, 3821250; 359750, 3821250; 359750, 3820750; 359500, 3820750; 359500, 3820500; 359750, 3820500; 359750, 3820250; 359500, 3820250; 359500, 3819750; 359250, 3819750; 359250, 3818750; 359000, 3818750; 359000, 3817500; 358750, 3817500; 358750, 3815750; 358500, 3815750; 358500, 3815250; 358250, 3815250; 358250, 3814750; 357000, 3814750; 357000, 3815750; 357250, 3815750; 357250, 3816000; 357500, 3816000; 357500, 3816250; 357750, 3816250; 357750, 3816750; 358000, 3816750; 358000, 3818750; 358250, 3818750; 358250, 3819000; 358500, 3819000; 358500, 3819750; 358750, 3819750; 358750, 3820500; 359000, 3820500; 359000, 3821750; 359250, 3821750; 359250, 3822000; 359500, 3822000; 359500, 3823000; 360000, 3823000; 360000, 3823250; 360250, 3823250; 360250, 3823750; 360750, 3823750; 360750, 3824750; 361750, 3824750; 361750, 3824500; 362000, 3824500; 362000, 3824750; 362250, 3824750; 362250, 3825000; 362500, 3825000; 362500, 3825250; 362750, 3825250; 362750, 3825000; 363000, 3825000; 363000, 3825250; 363250, 3825250; 363250, 3825750; 363500, 3825750;

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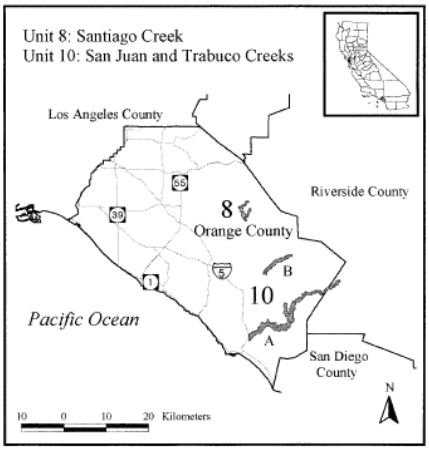
Map Unit 7: Upper Los Angeles River Basin, Los Angeles County, California

Subunit 7a: From USGS 1:24,000 quadrangle maps Sunland and Condor Peak, the lands in the Big Tujunga Creek basin bounded by the following UTM coordinates (E, N): 379750, 3793000; 379750, 3792500; 379500, 3792500; 379500, 3792250; 379250, 3792250; 379250, 3792000; 379000, 3792000; 379000, 3791750; 378500, 3791750; 378500, 3791500; 378250, 3791500; 378250, 3792000; 375500, 3792000; 375500, 3793500; 376750, 3793500; 376750, 3793250; 378500, 3793250; 378500, 3793500; 379000, 3793500; 379000, 3793750; 379500, 3793750; 379500, 3794000; 380250, 3794000; 380250, 3794250; 380750, 3794250; 380750, 3794750; 381000, 3794750; 381000, 3795000; 381250, 3795000; 381250, 3795250; 381500, 3795250; 381500, 3795500; 381750, 3795500; 381750, 3795750; 382000, 3795750; 382000, 3796000; 382250, 3796000; 382250, 3796250; 383750, 3796250; 383750, 3796500; 384750, 3796500; 384750, 3796250; 385000, 3796250; 385000, 3796000; 385250, 3796000; 385250, 3795750; 386000, 3795750; 386000, 3795500; 386250, 3795500; 386250, 3795250; 386750, 3795250; 386750, 3794750; 387250, 3794750; 387250, 3794500; 387500, 3794500; 387500, 3794250; 387750, 3794250; 387750, 3794000; 388000, 3794000; 388000, 3793750; 389250, 3793750; 389250, 3794000; 389500, 3794000; 389500, 3794250; 389750, 3794250; 389750, 3794500; 390000, 3794500; 390000, 3795000; 390500, 3795000; 390500, 3795250; 390750, 3795250; 390750, 3794750; 390500, 3794750; 390500, 3794000; 390000, 3794000; 390000, 3793750; 389750, 3793750; 389750, 3793500; 389500, 3793500; 389500, 3793250; 388750, 3793250; 388750, 3793000; 387750, 3793000; 387750, 3793250; 387500, 3793250; 387500, 3793750; 387250, 3793750; 387250, 3794000; 387000, 3794000; 387000, 3794250; 386500, 3794250; 386500, 3794500; 386250, 3794500; 386250, 3794750; 386000, 3794750; 386000, 3795000; 385500, 3795000; 385500, 3795250; 385250, 3795250; 385250, 3795500; 384750, 3795500; 384750, 3795750; 384500, 3795750; 384500, 3796000; 384000, 3796000; 384000, 3795500; 383500, 3795500; 383500, 3795750; 382500, 3795750; 382500, 3795500; 382250, 3795500; 382250, 3795250; 382000, 3795250; 382000, 3795000; 381750, 3795000; 381750, 3794500; 381500, 3794500; 381500, 3793500; 380750, 3793500; 380750, 3793250; 380250, 3793250; 380250, 3793000; 379750, 3793000; excluding land bounded by 379750, 3793000; 379750, 3793250; 379500, 3793250; 379500, 3793000; 379750, 3793000.

Subunit 7b: From USGS 1:24,000 quadrangle maps Condor Peak and Chilao Flat, the lands bounded by the following UTM coordinates (E, N): 397750, 3801250; 398250, 3801250; 398250, 3799500; 398000, 3799500; 398000, 3799250; 397750, 3799250; 397750, 3799000; 397500, 3799000; 397500, 3798750; 397000, 3798750; 397000, 3798250; 396750, 3798250; 396750, 3798000; 396500, 3798000; 396500, 3797750; 396250, 3797750; 396250, 3797500; 395750, 3797500; 395750, 3797000; 396000, 3797000; 396000, 3797250; 397750, 3797250; 397750, 3797000; 398250, 3797000; 398250, 3797250; 400000, 3797250; 400000, 3797500; 400500, 3797500; 400500, 3797250; 400750, 3797250; 400750, 3797000; 401250, 3797000; 401250, 3797250; 401500, 3797250; 401500, 3797750; 402000, 3797750; 402000, 3798000; 402500, 3798000; 402500, 3798250; 403500, 3798250; 403500, 3798000; 403750, 3798000; 403750, 3797750; 403500, 3797750; 403500, 3797500; 403250, 3797500; 403250, 3797750; 402750, 3797750; 402750, 3797500; 402250, 3797500; 402250, 3797250; 402000, 3797250; 402000, 3797000; 401750, 3797000; 401750, 3796750; 402000, 3796750; 402000, 3796500; 402500, 3796500; 402500, 3796000; 402750, 3796000; 402750, 3795500; 403000, 3795500; 403000, 3795000; 402500, 3795000; 402500, 3795500; 402250, 3795500; 402250, 3795750; 401750, 3795750; 401750, 3796000; 401500, 3796000; 401500, 3796250; 401250, 3796250; 401250, 3796500; 401000, 3796500; 401000, 3796250; 400250, 3796250; 400250, 3796500; 398250, 3796500; 398250, 3796250; 397500, 3796250; 397500, 3796500; 397250, 3796500; 397250, 3796750; 396000, 3796750; 396000, 3796500; 395500, 3796500; 395500, 3796750; 394750, 3796750; 394750, 3796500; 394250, 3796500; 394250, 3796750; 393750, 3796750; 393750, 3796250; 392750, 3796250; 392750, 3796000; 392500, 3796000; 392500, 3795750; 392000, 3795750; 392000, 3796250; 392250, 3796250; 392250, 3796500; 392750, 3796500; 392750, 3796750; 393500, 3796750; 393500, 3797000; 393750, 3797000; 393750, 3797250; 394250, 3797250; 394250, 3797000; 394750, 3797000; 394750, 3797750; 395250, 3797750; 395250, 3798000; 396000, 3798000; 396000, 3798500; 396250, 3798500; 396250, 3799000; 396750, 3799000; 396750, 3799500; 397500, 3799500; 397500, 3800000; 397750, 3800000; 397750, 3801250.

Subunit 7c: From USGS 1:24,000 quadrangle maps Condor Peak and Pasadena, the lands bounded by the following UTM coordinates (E, N): 391500, 3790750; 392000, 3790750; 392000, 3790000; 391750, 3790000; 391750, 3789750; 391250, 3789750; 391250, 3789500; 391500, 3789500; 391500, 3789000; 391750, 3789000; 391750, 3788500; 392000, 3788500; 392000, 3787750; 391750, 3787750; 391750, 3787000; 392000, 3787000; 392000, 3786500; 392250, 3786500; 392250, 3786000; 392500, 3786000; 392500, 3785750; 392750, 3785750; 392750, 3785500; 393000, 3785500; 393000, 3784750; 392750, 3784750; 392750, 3784250; 392500, 3784250; 392500, 3784000; 391750, 3784000; 391750, 3784750; 392000, 3784750; 392000, 3785000; 392250, 3785000; 392250, 3785500; 391750, 3785500; 391750, 3786250; 391500, 3786250; 391500, 3786750; 391250, 3786750; 391250, 3788000; 391500, 3788000; 391500, 3788250; 391250, 3788250; 391250, 3788750; 391000, 3788750; 391000, 3789000; 390750, 3789000; 390750, 3790000; 391000, 3790000; 391000, 3790250; 391250, 3790250; 391250, 3790500; 391500, 3790500; 391500, 3790750.



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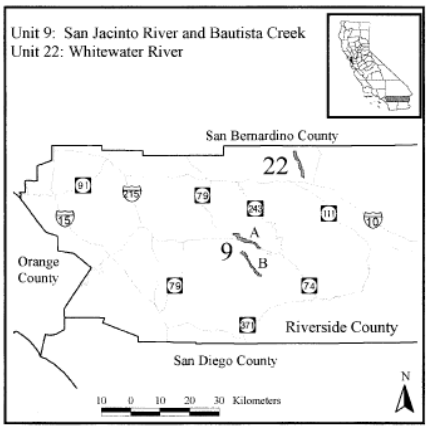
Map Unit 8: Santiago Creek, Orange County. From USGS 1:24,000 quadrangle maps Black Star Canyon and El Toro, the lands bounded by the following UTM coordinates (E, N): 438250, 3734750; 438250,

3734500; 438500, 3734500; 438500, 3734000; 438000, 3734000; 438000, 3734250; 437750, 3734250; 437750, 3734500; 437500, 3734500; 437500, 3735000; 437250, 3735000; 437250, 3736000; 437000, 3736000; 437000, 3736500; 436750, 3736500; 436750, 3737000; 436500, 3737000; 436500, 3737500; 436750, 3737500; 436750, 3737250; 437000, 3737250; 437000, 3737500; 437250, 3737500; 437250, 3737750; 437500, 3737750; 437500, 3738000; 438000, 3738000; 438000, 3738500; 438250, 3738500; 438250, 3738750; 439000, 3738750; 439000, 3738250; 438500, 3738250; 438500, 3737750; 438250, 3737750; 438250, 3737500; 437750, 3737500; 437750, 3737000; 437500, 3737000; 437500, 3736250; 437750, 3736250; 437750, 3736000; 438000, 3736000; 438000, 3735500; 438500, 3735500; 438500, 3735750; 438750, 3735750; 438750, 3736500; 439000, 3736500; 439000, 3737000; 439500, 3737000; 439500, 3736250; 439250, 3736250; 439250, 3736000; 439000, 3736000; 439000, 3735250; 438750, 3735250; 438750, 3734750; 438250, 3734750; excluding land bounded by 438250, 3734750; 438250, 3735000; 438000, 3735000; 438000, 3734750; 438250, 3734750.



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Map Unit 9: San Jacinto River and Bautista Creek, Riverside County.

Subunit 9a: From USGS 1:24,000 quadrangle maps San Jacinto, Lake Fulmor, Hemet and Blackburn Canyon, the lands bounded by the following UTM coordinates (E, N): 509750, 3736000; 511500, 3736000; 511500, 3735750; 512000, 3735750; 512000, 3734750; 512250, 3734750; 512250, 3734500; 513000, 3734500; 513000, 3734250; 513750, 3734250; 513750, 3734000; 514250, 3734000; 514250, 3733750; 514500, 3733750; 514500, 3733500; 515750, 3733500; 515750, 3733250; 516250, 3733250; 516250, 3733000; 517250, 3733000; 517250, 3732750; 517500, 3732750; 517500, 3732500; 517750, 3732250; 518000, 3732250; 518000, 3731750; 518250, 3731750; 518250, 3731500; 518500, 3731500; 518500, 3731250; 518750, 3731250; 518750, 3731000; 519000, 3731000; 519000, 3730750; 518000, 3730750; 518000, 3731250; 517500, 3731250; 517500, 3732000; 517000, 3732000; 517000, 3732250; 516500, 3732250; 516500, 3732500; 516000, 3732500; 516000, 3732750; 515750, 3732750; 515750, 3732500; 515500, 3732500; 515500, 3732750; 513500, 3732750; 513500, 3733000; 513250, 3733000; 513250, 3733250; 512500, 3733250; 512500, 3733750; 511250, 3733750; 511250, 3734500; 511000, 3734500; 511000, 3734750; 510750, 3734750; 510750, 3735000; 510500, 3735000; 510500, 3735500; 509750, 3735500; 509750, 3736000.

Subunit 9b: From USGS 1:24,000 quadrangle map Blackburn Canyon, the lands bounded by the following UTM coordinates (E, N): 512750, 3730000; 513000, 3730000; 513000, 3729750; 513750, 3729750; 513750, 3729250; 514000, 3729250; 514000, 3729000; 514250, 3729000; 514250, 3728750; 514500, 3728750; 514500, 3728250; 514750, 3728250; 514750, 3728000; 514500, 3728000; 514500, 3727750; 514750, 3727750; 514750, 3727250; 515000, 3727250; 515000, 3726750; 515250, 3726750; 515250, 3726500; 515500, 3726500; 515500, 3725750; 515750, 3725750; 515750, 3725500; 516000, 3725500; 516000, 3725000; 516250, 3725000; 516250, 3724750; 516500, 3724750; 516500, 3724500; 516750, 3724500; 516750, 3724250; 517000, 3724250; 517000, 3724000; 517250, 3724000; 517250, 3723500; 517500, 3723500; 517500, 3723000; 518000, 3723000; 518000, 3722750; 518250, 3722750; 518250, 3722250; 518500, 3722250; 518500, 3722000; 519250, 3722000; 519250, 3721750; 519500, 3721750; 519500, 3721500; 519250, 3721500; 519250, 3721250; 518750, 3721250; 518750, 3721500; 518000, 3721500; 518000, 3721750; 517750, 3721750; 517750, 3722000; 517500, 3722000; 517500, 3722250; 517250, 3722250; 517250, 3722500; 517000, 3722500; 517000, 3723000; 516750, 3723000; 516750, 3723500; 516500, 3723500; 516500, 3724000; 516250, 3724000; 516250, 3724250; 515750, 3724250; 515750, 3724500; 515500, 3724500; 515500, 3725250; 515250, 3725250; 515250, 3725750; 515000, 3725750; 515000, 3726250; 514750, 3726250; 514750, 3726750; 514500, 3726750; 514500, 3727250; 514000, 3727250; 514000, 3727500; 513750, 3727500; 513750, 3728250; 513500, 3728250; 513500, 3728500; 513000, 3728500; 513000, 3728750; 512750, 3728750; 512750, 3729000; 512250, 3729000; 512250, 3729500; 512500, 3729500; 512500, 3729750; 512750, 3729750; 512750, 3730000.

Map Unit 10 (see Map of Units 8 and 10): San Juan and Trabuco Creeks, Orange and Riverside Counties, California

Subunit 10a: From USGS 1:24,000 quadrangle maps Dana Point, San Juan Capistrano, Canada Gobernadora and Sitton Peak, the lands bounded by the following UTM coordinates (E, N): 459500, 3720000; 459750, 3720000; 459750, 3719750; 460000, 3719750; 460000, 3720000; 460500, 3720000; 460500, 3719500; 460250, 3719500; 460250, 3719250; 460000, 3719250; 460000, 3718750; 459500, 3718750; 459500, 3718500; 459250, 3718500; 459250, 3718250; 458750, 3718250; 458750, 3718000; 458500, 3718000; 458500, 3717750; 457500, 3717750; 457500, 3717250; 457250, 3717250; 457250, 3717000; 457000, 3717000; 457000, 3716750; 456500, 3716750; 456500, 3716500; 456250, 3716500; 456250, 3716750; 456000, 3716750; 456000, 3716500; 455750, 3716500; 455750, 3716750; 455500, 3716750; 455500, 3717000; 454750, 3717000; 454750, 3716750; 454000, 3716750; 454000, 3716500; 452500, 3716500; 452500, 3716250; 452250, 3716250; 452250, 3716000; 452000, 3716000; 452000, 3715750; 451750, 3715750; 451750, 3715500; 451500, 3715500; 451500, 3715250; 451250, 3715250; 451250, 3715000; 451000, 3715000; 451000, 3714750; 450000, 3714750; 450000, 3714000; 449750, 3714000; 449750, 3713500; 450000, 3713500; 450000, 3713000; 449750, 3713000; 449750, 3712750; 449500, 3712750; 449500, 3710750; 449750, 3710750; 449750, 3710250; 449500, 3710250; 449500, 3710000; 449000, 3710000; 449000, 3709500; 448750, 3709500; 448750, 3708750; 448500, 3708750; 448500, 3708500; 448000, 3708500; 448000, 3708000; 446250, 3708000; 446250, 3707750; 446000, 3707750; 446000, 3708000; 445000, 3708000; 445000, 3708250; 444750, 3708250; 444750, 3708500; 444250, 3708500; 444250, 3708750; 444000, 3708750; 444000, 3709000; 443750, 3709000; 443750, 3709250; 443500, 3709250; 443500, 3709000; 443000, 3709000; 443000, 3708750; 442750, 3708750; 442750, 3708500; 442500, 3708500; 442500, 3708000; 442000, 3708000; 442000, 3707500; 441750, 3707500; 441750,

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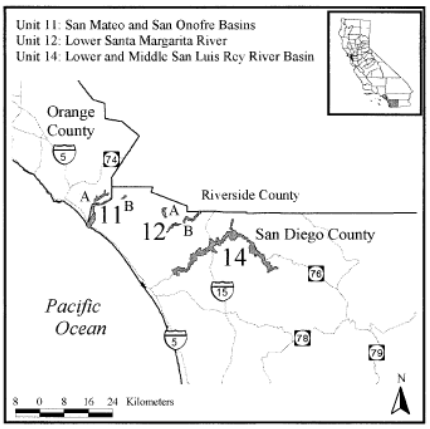
Subunit 10b: From USGS 1:24,000 quadrangle map Santiago Peak, the lands bounded by the following UTM coordinates (E, N): 448000, 3726000; 449250, 3726000; 449250, 3725500; 448500, 3725500; 448500, 3725250; 448250, 3725250; 448250, 3725000; 447750, 3725000; 447750, 3724750; 447250, 3724750; 447250, 3724500; 446750, 3724500; 446750, 3724250; 446000, 3724250; 446000, 3724000; 445500, 3724000; 445500, 3723750; 445250, 3723750; 445250, 3723500; 445000, 3723500; 445000, 3723250; 444500, 3723250; 444500, 3722750; 444250, 3722750; 444250, 3722500; 443750, 3722500; 443750, 3722250; 443500, 3722250; 443500, 3722000; 443250, 3722000; 443250, 3721250; 442250, 3721250; 442250, 3721750; 442500, 3721750; 442500, 3722250; 442750, 3722250; 442750, 3722500; 443000, 3722500; 443000, 3722750; 443250, 3722750; 443250, 3723000; 443500, 3723000; 443500, 3723250; 443750, 3723250; 443750, 3723500; 444000, 3723500; 444000, 3723750; 444250, 3723750; 444250, 3724000; 444750, 3724000; 444750, 3724500; 445250, 3724500; 445250, 3725000; 445500, 3725000; 445500, 3724750; 445750, 3724750; 445750, 3725000; 446250, 3725000; 446250, 3725250; 446500, 3725250; 446500, 3725000; 446750, 3725000; 446750, 3725250; 447250, 3725250; 447250, 3725500; 447500, 3725500; 447500, 3725750; 448000, 3725750; 448000, 3726000.



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Map Unit 11: San Mateo and San Onofre Basins, Orange and Riverside Counties, California

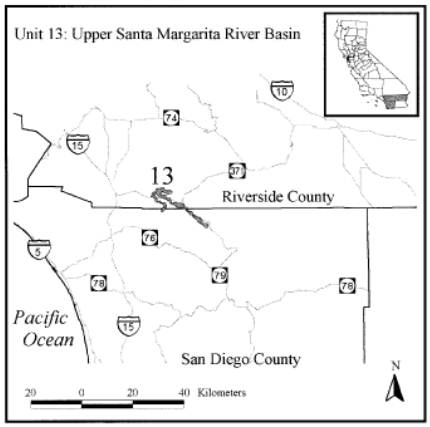
Subunit 11a: From USGS 1:24,000 quadrangle map San Clemente, the lands bounded by the following UTM coordinates (E, N): 450500, 3706250; 450750, 3706250; 450750, 3705000; 451250, 3705000; 451250, 3705250; 451750, 3705250; 451750, 3704750; 451500, 3704750; 451500, 3704250; 450000, 3704250; 450000, 3704000; 449750, 3704000; 449750, 3703750; 449250, 3703750; 449250, 3703500; 449000, 3703500; 449000, 3703250; 448500, 3703250; 448500, 3703000; 448250, 3703000; 448250, 3702750; 447500, 3702750; 447500, 3701750; 447750, 3701750; 447750, 3702000; 448500, 3702000; 448500, 3701750; 449500, 3701750; 449500, 3702000; 450000, 3702000; 450000, 3702250; 450250, 3702250; 450250, 3702500; 450750, 3702500; 450750, 3702750; 451500, 3702750; 451500, 3703000; 452000, 3703000; 452000, 3703250; 452250, 3703250; 452250, 3703750; 452250, 3703750; 452500, 3703250; 452500, 3703000; 452250, 3703000; 452250, 3702750; 452000, 3702750; 452000, 3702500; 451500, 3702500; 451500, 3702250; 451000, 3702250; 451000, 3702000; 450500, 3702000; 450500, 3701750; 450250, 3701750; 450250, 3701500; 449500, 3701500; 449500, 3701250; 448250, 3701250; 448250, 3701500; 447250, 3701500; 447250, 3700750; 447000, 3700750; 447000, 3698750; 447250, 3698750; 447250, 3697500; 447000, 3697500; 447000, 3697250; 447250, 3697250; 447250, 3696000; 447000, 3696000; 447000, 3695750; 446750, 3695750; 446750, 3695250; 446500, 3695250; 446500, 3695000; 446250, 3695000; 446250, 3694500; 446000, 3694500; 446000, 3694250; 445750, 3694250; 445750, 3694000; 446000, 3694000; 446000, 3693500; 445250, 3693500; 445250, 3693750; 444750, 3693750; 444750, 3694000; 444500, 3694000; 444500, 3695500; 445000, 3695500; 445000, 3695750; 445250, 3695750; 445250, 3696250; 445500, 3696250; 445500, 3696750; 445750, 3696750; 445750, 3697250; 446000, 3697250; 446000, 3697750; 446250, 3697750; 446250, 3698250; 446500, 3698250; 446500, 3698500; 446750, 3698500; 446750, 3698750; 446500, 3698750; 446500, 3700750; 446750, 3700750; 446750, 3702750; 447000, 3702750; 447000, 3703250; 447250, 3703250; 447250, 3703500; 447500, 3703500; 447500, 3704250; 448000, 3704250; 448000, 3703750; 448500, 3703750; 448500, 3704000; 448750, 3704000; 448750, 3704250; 449250, 3704250; 449250, 3704500; 449750, 3704500; 449750, 3705000; 450250, 3705000; 450250, 3706000; 450500, 3706000; 450500, 3706250.

Subunit 11b: From USGS 1:24,000 quadrangle map Margarita Peak, the lands bounded by the following UTM coordinates (E, N): 457000, 3704500; 457500, 3704500; 457500, 3703750; 457000, 3703750; 457000, 3703500; 456750, 3703500; 456750, 3703250; 455750, 3703250; 455750, 3703500; 456250, 3703500; 456250, 3703750; 456500, 3703750; 456500, 3704250; 457000, 3704250; 457000, 3704500.

Map Unit 12: Lower Santa Margarita Basin, San Diego County, California

Subunit 12a: From USGS 1:24,000 quadrangle map Fallbrook, the lands bounded by the following UTM coordinates (E, N): 469750, 3700500; 470750, 3700500; 470750, 3700000; 470500, 3700000; 470500, 3699750; 470250, 3699750; 470250, 3698750; 470500, 3698750; 470500, 3697500; 470750, 3697500; 470750, 3697000; 470500, 3697000; 470500, 3697250; 470250, 3697250; 470250, 3697000; 470000, 3697000; 470000, 3697750; 469750, 3697750; 469750, 3698250; 469500, 3698250; 469500, 3698500; 469250, 3698500; 469250, 3699000; 469500, 3699000; 469500, 3699500; 469250, 3699500; 469250, 3700000; 469500, 3700000; 469500, 3700250; 469750, 3700250; 469750, 3700500.

Subunit 12b: From USGS 1:24,000 quadrangle maps Fallbrook, Morro Hill, and Temecula, the lands bounded by the following UTM coordinates (E, N): 473500, 3695500; 474000, 3695500; 474000, 3695250; 474250, 3695250; 474250, 3695000; 475750, 3695000; 475750, 3694750; 475000, 3694750; 475000, 3694500; 474750, 3694500; 474750, 3694250; 473750, 3694250; 473750, 3694750; 473500, 3694750; 473500, 3694500; 473250, 3694500; 473250, 3694250; 473000, 3694250; 473000, 3693750; 472750, 3693750; 472750, 3693500; 472000, 3693500; 472000, 3693000; 471750, 3693000; 471750, 3692750; 471500, 3692750; 471500, 3692250; 471000, 3692250; 471000, 3692000; 470750, 3692000; 470750, 3692500; 471250, 3692500; 471250, 3693250; 471500, 3693250; 471500, 3693500; 471750, 3693500; 471750, 3694000; 472250, 3694000; 472250, 3694500; 472500, 3694500; 472500, 3694750; 472750, 3694750; 472750, 3695000; 473500, 3695000; 473500, 3695500; and lands bounded by 481500, 3699250; 482000, 3699250; 482000, 3699000; 482250, 3699000; 482250, 3698500; 482000, 3698500; 482000, 3698250; 481500, 3698250; 481500, 3697750; 481250, 3697750; 481250, 3697500; 481000, 3697500; 481000, 3697250; 480750, 3697250; 480750, 3697000; 480500, 3697000; 480500, 3696500; 480250, 3696500; 480250, 3696250; 479750, 3696250; 479750, 3696000; 479500, 3696000; 479500, 3695750; 479000, 3695750; 479000, 3696000; 478500, 3696000; 478500, 3696250; 478250, 3696250; 478250, 3696000; 477750, 3696000; 477750, 3696500; 477500, 3696500; 477500, 3696750; 477250, 3696750; 477250, 3696250; 477000, 3696250; 477000, 3695250; 476500, 3695250; 476500, 3695500; 476250, 3695500; 476250, 3696000; 476500, 3696000; 476500, 3696500; 476750, 3696500; 476750, 3697000; 477000, 3697000; 477000, 3697250; 477250, 3697250; 477250, 3697500; 477750, 3697500; 477750, 3697250; 478000, 3697250; 478000, 3697000; 478250, 3697000; 478250, 3696750; 479000, 3696750; 479000, 3696500; 479250, 3696500; 479250, 3696750; 479750, 3696750; 479750, 3697250; 480000, 3697250; 480000, 3697500; 480250, 3697500; 480250, 3697750; 480500, 3697750; 480500, 3698000; 480750, 3698000; 480750, 3698250; 481000, 3698250; 481000, 3698500; 481250, 3698500; 481250, 3698750; 481500, 3698750; 481500, 3699250.



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Map Unit 13: Upper Santa Margarita Basin, San Diego County, California. From USGS 1:24,000 quadrangle maps Sage, Vail Lake, Aquanga, and Palomar Observatory, the lands bounded by the following UTM coordinates (E, N): 504750, 3706750; 505500, 3706750; 505500, 3706500; 505750, 3706500; 505750, 3706750; 506000, 3706750; 506000, 3706250; 506250, 3706250; 506250, 3706000; 507000, 3706000; 507000, 3705750; 507250, 3705750; 507250, 3705500; 507750, 3705500; 507750, 3706000; 508500, 3706000; 508500, 3705500; 509000, 3705500; 509000, 3704500; 508000, 3704500; 508000, 3704250; 507250, 3704250; 507250, 3704000; 507000, 3704000; 507000, 3704500; 506750, 3704500; 506750, 3704750; 506000, 3704750; 506000, 3705000; 505500, 3705000; 505500, 3705250; 505250, 3705250; 505250, 3705000; 504750, 3705000; 504750, 3704750; 504500, 3704750; 504500, 3704000; 504750, 3704000; 504750, 3704250; 505000, 3704250; 505000, 3704000; 506250, 3704000; 506250, 3703750; 506750, 3703750; 506750, 3703000; 507000, 3703000; 507000, 3702750; 508250, 3702750; 508250, 3701750; 508750, 3701750; 508750, 3701250; 508500, 3701250; 508500, 3701000; 508750, 3701000; 508750, 3700750; 509500, 3700750; 509500, 3701000; 510000, 3701000; 510000, 3701250; 510500, 3701250; 510500, 3701000; 510750, 3701000; 510750, 3700750; 512750, 3700750; 512750, 3700500; 513750, 3700500; 513750, 3699250; 513500, 3699250; 513500, 3699000; 514250, 3699000; 514250, 3698750; 514500, 3698750; 514500, 3698250; 514750, 3698250; 514750, 3698000; 515000, 3698000; 515000, 3697750; 515250, 3697750; 515250, 3697500; 515750, 3697500; 515750, 3697250; 516000, 3697250; 516000, 3697500; 516500, 3697500; 516500, 3697250; 517000, 3697250; 517000, 3696250; 517250, 3696250; 517250, 3696000; 517500, 3696000; 517500, 3695750; 518000, 3695750; 518000, 3695250; 518250, 3695250; 518250, 3695500; 518750, 3695500; 518750, 3695250; 519750, 3695250; 519750, 3695000; 520000, 3695000; 520000, 3694500; 520500, 3694500; 520500, 3694000; 520750, 3694000; 520750, 3693500; 520500, 3693500; 520500, 3693000; 521000, 3693000; 521000, 3692750; 522750, 3692750; 522750, 3692000; 523000, 3692000; 523000, 3691750; 522750, 3691750; 522750, 3691000; 521500, 3691000; 521500, 3691750; 521250, 3691750; 521250, 3692000; 520750, 3692000; 520750, 3692250; 520000, 3692250; 520000, 3692750; 519750, 3692750; 519750, 3693000; 519250, 3693000; 519250, 3693250; 519000, 3693250; 519000, 3693500; 518750, 3693500; 518750, 3694000; 518500, 3694000; 518500, 3694250; 518000, 3694250; 518000, 3694500; 517750, 3694500; 517750, 3694750; 517500, 3694750; 517500, 3695000; 517250, 3695000; 517250, 3695250; 517000, 3695250; 517000, 3695750; 516750, 3695750; 516750, 3696000; 516000, 3696000; 516000, 3696500; 515500, 3696500; 515500, 3696750; 515250, 3696750; 515250, 3697000; 515000, 3697000; 515000, 3697250; 514750, 3697250; 514750, 3697500; 514500, 3697500; 514500, 3697750; 514250, 3697750; 514250, 3698250; 513750, 3698250; 513750, 3698500; 513250, 3698500; 513250, 3698750; 512750, 3698750; 512750, 3699000; 512500, 3699000; 512500, 3698500; 512000, 3698500; 512000, 3698750; 511250, 3698750; 511250, 3699000; 510750, 3699000; 510750, 3699250; 510500, 3699250; 510500, 3699500; 510250, 3699500; 510250, 3699750; 510000, 3699750; 510000, 3700000; 509250, 3700000; 509250, 3700250; 508250, 3700250; 508250, 3700750; 508000, 3700750; 508000, 3701250; 507750, 3701250; 507750, 3701750; 507500, 3701750; 507500, 3701500; 507250, 3701500; 507250, 3701750; 507000, 3701750; 507000, 3702000; 506750, 3702000; 506750, 3702250; 506500, 3702250; 506500, 3702500; 506250, 3702500; 506250, 3702250; 505750, 3702250; 505750, 3702750; 504750, 3702750; 504750, 3703000; 504000, 3703000; 504000, 3703250; 503750, 3703250; 503750, 3703500; 503500, 3703500; 503500, 3703750; 503250, 3703750; 503250, 3704000; 503000, 3704000; 503000, 3704500;

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Map Unit 14 (see map of Units 11, 12, and 14): Lower and Middle San Luis Rey Basin, San Diego County, California. From USGS 1:24,000 quadrangle maps Pechanga, San Luis Rey, Morro Hill, Bonsall, Pala, Boucher Hill and Rodriguez Mtn., the lands bounded by the following UTM coordinates (E, N): 487250, 3689250; 487250, 3690250; 487500, 3690250; 487500, 3690500; 488000, 3690500; 488000, 3690000; 488250, 3690000; 488250, 3689500; 489000, 3689500; 489000, 3690000; 489250, 3690000; 489250, 3690500; 489500, 3690500; 489500, 3691000; 489750, 3691000; 489750, 3691250; 490250, 3691250; 490250, 3691500; 490500, 3691500; 490500, 3692000; 490750, 3692000; 490750, 3692500; 491250, 3692500; 491250, 3692250; 491500, 3692250; 491500, 3692500; 491750, 3692500; 491750, 3692250; 492250, 3692250; 492250, 3693000; 492000, 3693000; 492000, 3693250; 491750, 3693250; 491750, 3693750; 492000, 3693750; 492000, 3695250; 492250, 3695250; 492250, 3696000; 492500, 3696000; 492500, 3696750; 492750, 3696750; 492750, 3696500; 493000, 3696500; 493000, 3695750; 492750, 3695750; 492750, 3695000; 492500, 3695000; 492500, 3694250; 492250, 3694250; 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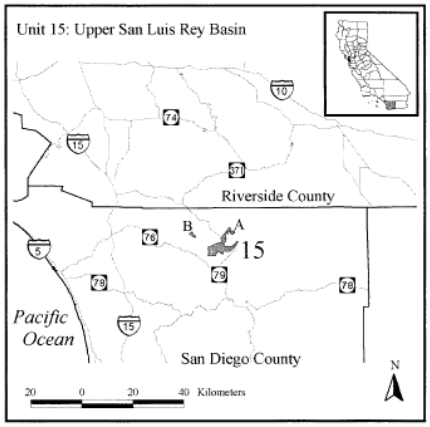

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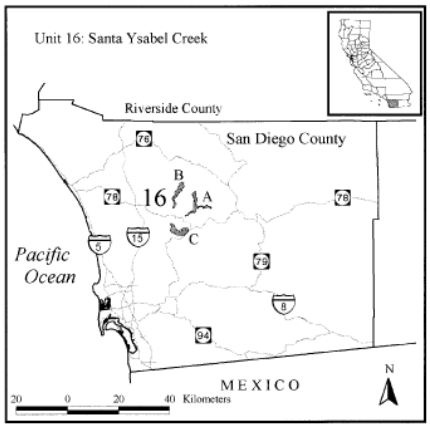
Map Unit 15: Upper San Luis Rey Basin, San Diego County, California

Subunit 15a: From USGS 1:24,000 quadrangle maps Palomar Observatory, and Warner Springs, the lands bounded by the following UTM coordinates (E, N): 531000, 3691000; 531500, 3691000; 531500, 3690750; 531750, 3690750; 531750, 3690000; 532000, 3690000; 532000, 3689500; 532750, 3689500; 532750, 3689750; 533500, 3689750; 533500, 3688750; 533000, 3688750; 533000, 3688250; 532000, 3688250; 532000, 3688750; 531750, 3688750; 531750, 3689000; 531500, 3689000; 531500, 3689250; 531000, 3689250; 531000, 3688500; 530500, 3688500; 530500, 3688750; 530250, 3688750; 530250, 3688500; 530000, 3688500; 530000, 3688000; 529750, 3688000; 529750, 3687750; 530000, 3687750; 530000, 3686750; 530250, 3686750; 530250, 3686250; 530000, 3686250; 530000, 3685250; 529750, 3685250; 529750, 3685000; 529250, 3685000; 529250, 3684750; 528750, 3684750; 528750, 3684500; 529250, 3684500; 529250, 3683500; 530500, 3683500; 530500, 3683750; 530750, 3683750; 530750, 3683500; 531000, 3683500; 531000, 3683250; 531750, 3683250; 531750, 3683500; 532250, 3683500; 532250, 3683750; 532500, 3683750; 532500, 3684000; 533000, 3684000; 533000, 3684250; 533500, 3684250; 533500, 3684500; 533750, 3684500; 533750, 3685250; 534000, 3685250; 534000, 3685500; 534750, 3685500; 534750, 3685000; 534250, 3685000; 534250, 3684500; 534000, 3684500; 534000, 3683750; 533750, 3683750; 533750, 3683500; 533250, 3683500; 533250, 3682750; 532500, 3682750; 532500, 3682250; 532250, 3682250; 532250, 3682000; 532000, 3682000; 532000, 3681750; 531750, 3681750; 531750, 3681500; 530750, 3681500; 530750, 3681250; 530250, 3681250; 530250, 3681500; 530000, 3681500; 530000, 3681750; 529500, 3681750; 529500, 3681500; 529000, 3681500; 529000, 3680500; 528500, 3680500; 528500, 3680750; 527750, 3680750; 527750, 3681000; 527500, 3681000; 527500, 3681250; 527000, 3681250; 527000, 3681500; 526500, 3681500; 526500, 3680750; 526250, 3680750; 526250, 3680250; 526000, 3680250; 526000, 3679750; 523000, 3679750; 523000, 3680250; 523250, 3680250; 523250, 3681250; 523500, 3681250; 523500, 3681500; 523250, 3681500; 523250, 3682250; 523000, 3682250; 523000, 3683250; 523250, 3683250; 523250, 3683500; 523750, 3683500; 523750, 3683250; 524000, 3683250; 524000, 3683500; 524250, 3683500; 524250, 3683750; 524500, 3683750; 524500, 3684000; 525250, 3684000; 525250, 3684250; 526250, 3684250; 526250, 3684500; 526500, 3684500; 526500, 3684750; 527250, 3684750; 527250, 3685000; 528000, 3685000; 528000, 3685250; 528250, 3685250; 528250, 3686250; 528000, 3686250; 528000, 3686750; 528500, 3686750; 528500, 3687500; 528750, 3687500; 528750, 3687750; 529000, 3687750; 529000, 3688250; 529250, 3688250; 529250, 3688500; 529500, 3688500; 529500, 3688750; 529750, 3688750; 529750, 3689000; 530000, 3689000; 530000, 3689250; 530250, 3689250; 530250, 3689750; 530500, 3689750; 530500, 3690000; 530750, 3690000; 530750, 3690250; 531000, 3690250; 531000, 3691000.

Subunit 15b: From USGS 1:24,000 quadrangle map Palomar Observatory, the lands bounded by the following UTM coordinates (E, N): 516750, 3689250; 517000, 3689250; 517000, 3688750; 517250, 3688750; 517250, 3688000; 518000, 3688000; 518000, 3687750; 518250, 3687750; 518250, 3687000; 517500, 3687000; 517500, 3687250; 517000, 3687250; 517000, 3687500; 516750, 3687500; 516750, 3687750; 516500, 3687750; 516500, 3688000; 516000, 3688000; 516000, 3688250; 515750, 3688250; 515750, 3688750; 516500, 3688750; 516500, 3689000; 516750, 3689000; 516750, 3689250.



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Map Unit 16: Santa Ysabel Creek, San Diego County, California

Subunit 16a: From USGS 1:24,000 quadrangle maps Mesa Grande, Ramona and San Pasqual, the lands bounded by the following UTM coordinates (E, N): 513750, 3671000; 514250, 3671000; 514250, 3669500; 514000, 3669500; 514000, 3669250; 514250, 3669250; 514250, 3668500; 514750, 3668500; 514750, 3667750; 514500, 3667750; 514500, 3667500; 514750, 3667500; 514750, 3667250; 514500, 3667250; 514500, 3666500; 514250, 3666500; 514250, 3665750; 514000, 3665750; 514000, 3665500; 514500, 3665500; 514500, 3665000; 514250, 3665000; 514250, 3664750; 514500, 3664750; 514500, 3664500; 514750, 3664500; 514750, 3664750; 515000, 3664750; 515000, 3665000; 515250, 3665000; 515250,

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Subunit 16b: From USGS 1:24,000 quadrangle maps Rodriguez Mtn. and San Pasqual, the lands bounded by the following UTM coordinates (E, N): 508500, 3674750; 508750, 3674750; 508750, 3674500; 509250, 3674500; 509250, 3674750; 509500, 3674750; 509500, 3674000; 509250, 3674000; 509250, 3673250; 509750, 3673250; 509750, 3672750; 509500, 3672750; 509500, 3672500; 509250, 3672500; 509250, 3672250; 508750, 3672250; 508750, 3672000; 508000, 3672000; 508000, 3671750; 508500, 3671750; 508500, 3671500; 508750, 3671500; 508750, 3671250; 508500, 3671250; 508500, 3670750; 507750, 3670750; 507750, 3670250; 507250, 3670250; 507250, 3670000; 507000, 3670000; 507000, 3669250; 506750, 3669250; 506750, 3668750; 506250, 3668750; 506250, 3668500; 506000, 3668500; 506000, 3668250; 505500, 3668250; 505500, 3667500; 505750, 3667500; 505750, 3667000; 506000, 3667000; 506000, 3666500; 506250, 3666500; 506250, 3666250; 506500, 3666250; 506500, 3665750; 506250, 3665750; 506250, 3665500; 506000, 3665500; 506000, 3664750; 505750, 3664750; 505750, 3664500; 505250, 3664500; 505250, 3664250; 505000, 3664250; 505000, 3664750; 505250, 3664750; 505250, 3665750; 505500, 3665750; 505500, 3666500; 505250, 3666500; 505250, 3667250; 505000, 3667250; 505000, 3667750; 504750, 3667750; 504750, 3668250; 505000, 3668250; 505000, 3669000; 505500, 3669000; 505500, 3669500; 506000, 3669500; 506000, 3670000; 505750, 3670000; 505750, 3670750; 506250, 3670750; 506250, 3671250; 506500, 3671250; 506500, 3671500; 506750, 3671500; 506750, 3671750; 507000, 3671750; 507000, 3672750; 507500, 3672750; 507500, 3673750; 507750, 3673750; 507750, 3674250; 508000, 3674250; 508000, 3674500; 508500, 3674500; 508500, 3674750.

Subunit 16c: From USGS 1:24,000 quadrangle map San Pasqual, the lands bounded by the following UTM coordinates (E, N): 504000, 3658250; 505000, 3658250; 505000, 3657750; 505500, 3657750; 505500, 3657250; 505750, 3657250; 505750, 3657000; 506000, 3657000; 506000, 3656250; 506500, 3656250; 506500, 3656000; 506750, 3656000; 506750, 3655500; 507500, 3655500; 507500, 3655000; 507750, 3655000; 507750, 3655250; 508750, 3655250; 508750, 3655500; 508500, 3655500; 508500, 3655750; 508250, 3655750; 508250, 3656000; 508500, 3656000; 508500, 3656250; 509000, 3656250; 509000, 3656500; 511000, 3656500; 511000, 3656000; 511250, 3656000; 511250, 3655250; 511000, 3655250; 511000, 3655000; 510750, 3655000; 510750, 3654750; 510500, 3654750; 510500, 3654250; 510250, 3654250; 510250, 3654000; 509750, 3654000; 509750, 3653500; 509500, 3653500; 509500, 3653250; 508500, 3653250; 508500, 3653500; 506750, 3653500; 506750, 3653750; 506000, 3653750; 506000, 3654000; 505500, 3654000; 505500, 3654500; 504500, 3654500; 504500, 3655000; 504000, 3655000; 504000, 3655500; 504250, 3655500; 504250, 3656500; 504500, 3656500; 504500, 3657000; 504750, 3657000; 504750, 3657250; 504250, 3657250; 504250, 3658000; 504000, 3658000; 504000, 3658250.

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Map Unit 17: San Diego River and San Vicente Creek, San Diego County, California

Subunit 17a: From USGS 1:24,000 quadrangle maps El Cajon Mtn., Tule Springs and Santa Ysabel, the lands bounded by the following UTM coordinates (E, N): 525500, 3653000; 525750, 3653000; 525750, 3652750; 526000, 3652750; 526000, 3652000; 525750, 3652000; 525750, 3651250; 525500, 3651250; 525500, 3650750; 525250, 3650750; 525250, 3650250; 525500, 3650250; 525500, 3650500; 526000, 3650500; 526000, 3650000; 525500, 3650000; 525500, 3649750; 524750, 3649750; 524750, 3649500; 524500, 3649500; 524500, 3649250; 524250, 3649250; 524250, 3649000; 524750, 3649000; 524750, 3648750; 525000, 3648750; 525000, 3648250; 524750, 3648250; 524750, 3647500; 524500, 3647500; 524500, 3647250; 524000, 3647250; 524000, 3647000; 523750, 3647000; 523750, 3646500; 523250, 3646500; 523250, 3646250; 522750, 3646250; 522750, 3646500; 522250, 3646500; 522250, 3647000; 522500, 3647000; 522500, 3647250; 523500, 3647250; 523500, 3647750; 523750, 3647750; 523750, 3648000; 524250, 3648000; 524250, 3648500; 524000, 3648500; 524000, 3648750; 523750, 3648750; 523750, 3649500; 524000, 3649500; 524000, 3650250; 524250, 3650250; 524250, 3650500; 524500, 3650500; 524500, 3650750; 524750, 3650750; 524750, 3651000; 525000, 3651000; 525000, 3651500; 525250, 3651500; 525250, 3652000; 525500, 3652000; 525500, 3653000.

Subunit 17b: From USGS 1:24,000 quadrangle map El Cajon Mtn., the lands bounded by the following UTM coordinates (E, N): 516500, 3638750; 516750, 3638750; 516750, 3638500; 517000, 3638500; 517000, 3638750; 518000, 3638750; 518000, 3638000; 516500, 3638000; 516500, 3638750.

Subunit 17c: From USGS 1:24,000 quadrangle maps El Cajon, San Vicente Reservoir, and El Cajon Mtn., the lands bounded by the following UTM coordinates (E, N): 513000, 3639000; 513500, 3639000; 513500, 3638500; 513250, 3638500; 513250, 3637750; 513000, 3637750; 513000, 3637500; 512500, 3637500; 512500, 3637250; 511500, 3637250; 511500, 3637000; 511250, 3637000; 511250, 3636750; 511000, 3636750; 511000, 3636500; 510500, 3636500; 510500, 3636250; 510000, 3636250; 510000, 3636000; 509750, 3636000; 509750, 3636750; 508750, 3636750; 508750, 3636500; 508000, 3636500; 508000, 3636750; 507750, 3636750; 507750, 3637250; 508000, 3637250; 508000, 3637500; 508500, 3637500; 508500, 3637250; 509750, 3637250; 509750, 3637000; 510000, 3637000; 510000, 3637250; 510500, 3637250; 510500, 3637500; 511000, 3637500; 511000, 3637750; 511250, 3637750; 511250, 3638000; 511500, 3638000; 511500, 3638250; 512000, 3638250; 512000, 3638500; 513000, 3638500; 513000, 3639000.

Subunit 17d: From USGS 1:24,000 quadrangle maps El Cajon Mtn., and Ramona, the lands bounded by the following UTM coordinates (E, N): 516000, 3652000; 517750, 3652000; 517750, 3651750; 518000, 3651750; 518000, 3650750; 517500, 3650750; 517500, 3651250; 517000, 3651250; 517000, 3651000; 516250, 3651000; 516250, 3650750; 515500, 3650750; 515500, 3650500; 515000, 3650500; 515000, 3650250; 515250, 3650250; 515250, 3650000; 514750, 3650000; 514750, 3650500; 514500, 3650500; 514500, 3650750; 514000, 3650750; 514000, 3651000; 514250, 3651000; 514250, 3651250; 514500, 3651250; 514500, 3651500; 516000, 3651500; 516000, 3652000.

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Map Unit 18: Sweetwater River, San Diego County, California

Subunit 18a: From USGS 1:24,000 quadrangle maps Viejas Mountain, Descanso, and Cuyamaca Peak, the lands bounded by the following UTM coordinates (E, N): 536250, 3636500; 536250, 3636250; 536500, 3636250; 536500, 3636000; 536750, 3636000; 536750, 3635500; 537000, 3635500; 537000, 3634750; 536500, 3634750; 536500, 3634500; 536750, 3634500; 536750, 3634250; 536500, 3634250; 536500, 3634000; 536750, 3634000; 536750, 3633500; 536500, 3633500; 536500, 3633250; 536250, 3633250; 536250, 3633000; 535750, 3633000; 535750, 3632500; 535500, 3632500; 535500, 3632250; 535000, 3632250; 535000, 3632750; 534250, 3632750; 534250, 3633000; 533750, 3633000; 533750, 3632500; 533500, 3632500; 533500, 3632250; 532500, 3632250; 532500, 3632500; 531750, 3632500; 531750, 3632250; 531500, 3632250; 531500, 3632000; 531000, 3632000; 531000, 3631750; 530500, 3631750; 530500, 3631500; 530000, 3631500; 530000, 3631250; 529750, 3631250; 529750, 3631000; 528500, 3631000; 528500, 3631250; 527750, 3631250; 527750, 3631000; 527500, 3631000; 527500, 3630750; 527250, 3630750; 527250, 3630250; 526750, 3630250; 526750, 3630000; 526250, 3630000; 526250, 3630500; 526500, 3630500; 526500, 3630750; 526750, 3630750; 526750, 3631000; 527000, 3631000; 527000, 3631250; 527500, 3631250; 527500, 3631500; 527750, 3631500; 527750, 3631750; 528000, 3631750; 528000, 3631500; 528750, 3631500; 528750, 3631750; 529000, 3631750; 529000, 3631500; 529250, 3631500; 529250, 3631750; 530000, 3631750; 530000, 3632000; 530250, 3632000; 530250, 3632250; 530500, 3632250; 530500, 3632750; 531500, 3632750; 531500, 3633000; 532250, 3633000; 532250, 3633250; 532500, 3633250; 532500, 3633000; 532750, 3633000; 532750, 3632750; 533250, 3632750; 533250, 3633250; 533500, 3633250; 533500, 3633500; 534500, 3633500; 534500, 3633750; 535250, 3633750; 535250, 3633250; 535500, 3633250; 535500, 3633500; 536000, 3633500; 536000, 3634250; 535500, 3634250; 535500, 3634750; 535250, 3634750; 535250, 3635000; 535750, 3635000; 535750, 3635250; 535500, 3635250; 535500, 3635750; 535000, 3635750; 535000, 3636000; 534750, 3636000; 534750, 3636750; 535250, 3636750; 535250, 3637000; 535000, 3637000; 535000, 3637250; 535250, 3637250; 535250, 3637750; 535750, 3637750; 535750, 3637500; 536250, 3637500; 536250, 3637250; 536750, 3637250; 536750, 3637750; 537000, 3637750; 537000, 3638500; 537250, 3638500; 537250, 3639000; 537500, 3639000; 537500, 3639750; 537750, 3639750; 537750, 3640250; 538000, 3640250; 538000, 3640500; 538500, 3640500; 538500, 3640250; 538750, 3640250; 538750, 3640750; 538500, 3640750; 538500, 3641250; 539500, 3641250; 539500, 3641500; 539750, 3641500; 539750, 3641750; 540000, 3641750; 540000, 3642250; 540250, 3642250; 540250, 3642500; 540500, 3642500; 540500, 3642750; 540750, 3642750; 540750, 3643250; 541000, 3643250; 541000, 3643500; 541250, 3643500; 541250, 3643750; 541500, 3643750; 541500, 3645000; 542000, 3645000; 542000, 3645500; 542250, 3645500; 542250, 3645750; 542500, 3645750; 542500, 3646250; 542750, 3646250; 542750, 3647250; 543000, 3647250; 543000, 3648500; 543250, 3648500; 543250, 3648750; 543500, 3648750; 543500, 3648500; 543750, 3648500; 543750, 3648250; 543500, 3648250; 543500, 3647000; 543250, 3647000; 543250, 3646000; 543000, 3646000; 543000, 3645250; 542750, 3645250; 542750, 3644750; 542500, 3644750; 542500, 3644000; 542750, 3644000; 542750, 3643500; 542000, 3643500; 542000, 3643000; 541500, 3643000; 541500, 3642250; 541250, 3642250; 541250, 3642000; 541000, 3642000; 541000, 3641500; 540500, 3641500; 540500, 3641250; 540250, 3641250; 540250, 3641000; 540000, 3641000; 540000, 3640750; 539500, 3640750; 539500, 3639750; 538500, 3639750; 538500, 3639500; 538000, 3639500; 538000, 3638750; 537750, 3638750; 537750, 3637750; 537250, 3637750; 537250, 3637250; 537000, 3637250; 537000, 3636750; 536750, 3636750; 536750, 3636500; 536250, 3636500; excluding land bounded by 536250, 3636500; 536250, 3636750; 536000, 3636750; 536000, 3637000; 535750, 3637000; 535750, 3636500; 536250, 3636500.

Subunit 18b: From USGS 1:24,000 quadrangle maps Viejas Mountain, and Alpine, the lands bounded by the following UTM coordinates (E, N): 523500, 3629750; 524250, 3629750; 524250, 3629500; 524000, 3629500; 524000, 3628750; 524500, 3628750; 524500, 3628500; 525000, 3628500; 525000, 3628750; 525500, 3628750; 525500, 3628500; 526250, 3628500; 526250, 3628750; 526750, 3628750; 526750, 3628250; 526500, 3628250; 526500, 3628000; 525250, 3628000; 525250, 3628250; 525000, 3628250; 525000, 3628000; 524500, 3628000; 524500, 3627500; 524000, 3627500; 524000, 3627750; 523250, 3627750; 523250, 3628250; 523000, 3628250; 523000, 3629000; 523500, 3629000; 523500, 3629750.

Subunit 18c: From USGS 1:24,000 quadrangle maps Alpine, El Cajon, and Jamul Mts., the lands bounded by the following UTM coordinates (E, N): 514750, 3626500; 515250, 3626500; 515250, 3626000; 515000, 3626000; 515000, 3625750; 514750, 3625750; 514750, 3625500; 515500, 3625500; 515500, 3625750; 515750, 3625750; 515750, 3626000; 516000, 3626000; 516000, 3626250; 516750, 3626250; 516750, 3626000; 517750, 3626000; 517750, 3626250; 519250, 3626250; 519250, 3626750; 519750, 3626750; 519750, 3626000; 519500, 3626000; 519500, 3625750; 519250, 3625750; 519250, 3625500; 518500, 3625500; 518500, 3625750; 518000, 3625750; 518000, 3625500; 516500, 3625500; 516500, 3625750; 516250, 3625750; 516250, 3625250; 516000, 3625250; 516000, 3625000; 515750, 3625000; 515750, 3624750; 514750, 3624750; 514750, 3624500; 514250, 3624500; 514250, 3624750; 514000, 3624750; 514000, 3625500; 514250, 3625500; 514250, 3625750; 513750, 3625750; 513750, 3626250; 512750, 3626250; 512750, 3626000; 512000, 3626000; 512000, 3626250; 511500, 3626250; 511500, 3626000; 511750, 3626000; 511750, 3625250; 511500, 3625250; 511500, 3624750; 511250, 3624750; 511250, 3624500; 510750, 3624500; 510750, 3624250; 510250, 3624250; 510250, 3624000; 510000, 3624000; 510000, 3623750; 509750, 3623750; 509750, 3623500; 509500, 3623500; 509500, 3623250; 509750, 3623250; 509750, 3623000; 509000, 3623000; 509000, 3622250; 508500, 3622250; 508500, 3622000; 507750, 3622000; 507750, 3621750; 507250, 3621750; 507250, 3622000; 506500, 3622000; 506500, 3621750; 506250, 3621750; 506250, 3621000; 505750, 3621000; 505750, 3620500; 505500, 3620500; 505500, 3620250; 505250, 3620250; 505250, 3620000; 505000, 3620000; 505000, 3619750; 504750, 3619750; 504750, 3619500; 504500, 3619500; 504500, 3619250; 504250, 3619250; 504250, 3618250; 504000, 3618250; 504000, 3618000; 503000, 3618000; 503000, 3619250; 503250, 3619250; 503250, 3619000; 503500, 3619000; 503500, 3618750; 503750, 3618750; 503750, 3619500; 504000, 3619500; 504000, 3619750; 504250, 3619750; 504250, 3620000; 504500, 3620000; 504500, 3620500; 504750, 3620500; 504750, 3621250; 505000, 3621250; 505000, 3621750; 505250, 3621750; 505250, 3622000; 505000, 3622000; 505000, 3622500; 505250, 3622500; 505250, 3623000; 507000, 3623000; 507000, 3622750; 507750, 3622750; 507750, 3623000; 508000, 3623000; 508000, 3623250; 508250, 3623250; 508250, 3623500; 508500, 3623500; 508500, 3624000; 508750, 3624000; 508750, 3624250; 509250, 3624250; 509250, 3624500; 509500, 3624500; 509500, 3624750; 510250, 3624750; 510250, 3625000; 510500, 3625000; 510500, 3625250; 511000, 3625250; 511000, 3625500; 510500, 3625500; 510500, 3626000; 510250, 3626000; 510250, 3627250; 510500, 3627250; 510500, 3627500; 511500, 3627500; 511500, 3627250; 512000, 3627250; 512000, 3627000; 512250, 3627000; 512250, 3626750; 512500, 3626750; 512500, 3627000; 513250, 3627000; 513250, 3627250; 514500, 3627250; 514500, 3627750; 515000, 3627750; 515000, 3627000; 514750, 3627000; 514750, 3626500; excluding land bounded by 514750, 3626500; 514250, 3626500; 514250, 3626250; 514750, 3626250; 514750, 3626500.

Subunit 18d: From USGS 1:24,000 quadrangle map Viejas Mountain, the lands bounded by the following UTM coordinates (E, N): 527000, 3634000; 527500, 3634000; 527500, 3633250; 527250, 3633250; 527250, 3633000; 526750, 3633000; 526750, 3632750; 526500, 3632750; 526500, 3632500; 526250, 3632500; 526250, 3632000; 525750, 3632000; 525750, 3631750; 525500, 3631750; 525500, 3632000; 524750, 3632000; 524750, 3632750; 525750, 3632750; 525750, 3633250; 526250, 3633250; 526250, 3633500; 526750, 3633500; 526750, 3633750; 527000, 3633750; 527000, 3634000.

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Map Unit 19: Cottonwood-Tijuana Basin, San Diego County, California

Subunit 19a: From USGS 1:24,000 quadrangle maps Morena Reservoir, Cameron Corners and Mount Laguna, the lands bounded by the following UTM coordinates (E,N): 547000, 3627000; 547500, 3627000; 547500, 3626750; 547750, 3626750; 547750, 3626250; 548000, 3626250; 548000, 3625750; 548250, 3625750; 548250, 3625500; 548500, 3625500; 548500, 3624750; 548750, 3624750; 548750, 3623500; 549000, 3623500; 549000, 3622750; 550000, 3622750; 550000, 3622500; 549750, 3622500; 549750, 3621750; 549500, 3621750; 549500, 3621500; 549250, 3621500; 549250, 3621250; 549000, 3621250; 549000, 3621500; 548750, 3621500; 548750, 3621000; 548500, 3621000; 548500, 3620750; 548000, 3620750; 548000, 3620250; 548250, 3620250; 548250, 3618500; 549000, 3618500; 549000, 3620250; 549750, 3620250; 549750, 3620500; 550500, 3620500; 550500, 3620250; 551000, 3620250; 551000, 3619500; 550500, 3619500; 550500, 3619250; 550250, 3619250; 550250, 3618500; 550000, 3618500; 550000, 3618250; 549750, 3618250; 549750, 3617250; 548750, 3617250; 548750, 3617750; 548250, 3617750; 548250, 3617500; 547750, 3617500; 547750, 3618000; 547500, 3618000; 547500, 3618750; 547250, 3618750; 547250, 3619250; 547000, 3619250; 547000, 3617750; 546250, 3617750; 546250, 3617500; 546000, 3617500; 546000, 3617000; 545750, 3617000; 545750, 3616500; 545500, 3616500; 545500, 3616250; 544500, 3616250; 544500, 3616750; 544000, 3616750; 544000, 3617250; 543750, 3617250; 543750, 3617500; 543500, 3617500; 543500, 3619250; 543750, 3619250; 543750, 3619500; 543500, 3619500; 543500, 3620000; 543250, 3620000; 543250, 3620250; 543000, 3620250; 543000, 3620500; 542750, 3620500; 542750, 3620750; 542500, 3620750; 542500, 3621000; 542250, 3621000; 542250, 3621250; 541750, 3621250; 541750, 3621500; 541500, 3621500; 541500, 3622000; 541750, 3622000; 541750, 3622250; 542000, 3622250; 542000, 3622000; 542500, 3622000; 542500, 3621750; 542750, 3621750; 542750, 3622500; 543000, 3622500; 543000, 3622250; 543250, 3622250; 543250, 3622000; 543500, 3622000; 543500, 3621500; 543750, 3621500; 543750, 3621250; 544000, 3621250; 544000, 3621000; 544250, 3621000; 544250, 3620750; 544500, 3620750; 544500, 3620250; 544750, 3620250; 544750, 3620000; 544500, 3620000; 544500, 3619750; 544750, 3619750; 544750, 3619500; 545000, 3619500; 545000, 3618750; 545750, 3618750; 545750, 3619000; 546250, 3619000; 546250, 3619500; 546500, 3619500; 546500, 3620000; 546750, 3620000; 546750, 3620250; 547000, 3620250; 547000, 3621750; 547250, 3621750; 547250, 3622500; 547000, 3622500; 547000, 3624500; 547250, 3624500; 547250, 3626250; 547000, 3626250; 547000, 3627000; excluding land bounded by 544750, 3618500; 544750, 3618000; 545000, 3618000; 545000, 3618500; 544750, 3618500.

Subunit 19b: From USGS 1:24,000 quadrangle maps Barrett Lake, Tecate, Potrero and Morena Reservoir, the lands bounded by the following UTM coordinates (E,N): 530750, 3615750; 531000, 3615750; 531000, 3614500; 530750, 3614500; 530750, 3614000; 530500, 3614000; 530500, 3613500; 530250, 3613500; 530250, 3613000; 530500, 3613000; 530500, 3612000; 530250, 3612000; 530250, 3611250; 529750, 3611250; 529750, 3611000; 530000, 3611000; 530000, 3610250; 530250, 3610250; 530250, 3609750; 530000, 3609750; 530000, 3609500; 529750, 3609500; 529750, 3609250; 529250, 3609250; 529250, 3608750; 529000, 3608750; 529000, 3607750; 529500, 3607750; 529500, 3607500; 530250, 3607500; 530250, 3607250; 530500, 3607250; 530500, 3607000; 530250, 3607000; 530250, 3606750; 530750, 3606750; 530750, 3606500; 531750, 3606500; 531750, 3606750; 532500, 3606750; 532500, 3607000; 533250, 3607000; 533250, 3607500; 534250, 3607500; 534250, 3608000; 534500, 3608000; 534500, 3608250; 535000, 3608250; 535000, 3608750; 535500, 3608750; 535500, 3609750; 536000, 3609750; 536000, 3610000; 536250, 3610000; 536250, 3610250; 536500, 3610250; 536500, 3610500; 537000, 3610500; 537000, 3610750; 537500, 3610750; 537500, 3611250; 537750, 3611250; 537750, 3611500; 538250, 3611500; 538250, 3611750; 538500, 3611750; 538500, 3612500; 539000, 3612500; 539000, 3612750; 539250, 3612750; 539250, 3613500; 539500, 3613500; 539500, 3613750; 540000, 3613750; 540000, 3613250; 540250, 3613250; 540250, 3613000; 540500, 3613000; 540500, 3612750; 540750, 3612750; 540750, 3612250; 540250, 3612250; 540250, 3612000; 540000, 3612000; 540000, 3611750; 540250, 3611750; 540250, 3611500; 540000, 3611500; 540000, 3611000; 539750, 3611000; 539750, 3610250; 538500, 3610250; 538500, 3610000; 538250, 3610000; 538250, 3609500; 537250, 3609500; 537250, 3609250; 537750, 3609250; 537750, 3608500; 537000, 3608500; 537000, 3608250; 536750, 3608250; 536750, 3607500; 536500, 3607500; 536500, 3607250; 535500, 3607250; 535500, 3607500; 534750, 3607500; 534750, 3607250; 534500, 3607250; 534500, 3607000; 534000, 3607000; 534000, 3606750; 533500, 3606750; 533500, 3606500; 532750, 3606500; 532750, 3606250; 532000, 3606250; 532000, 3606000; 530750, 3606000; 530750, 3606250; 530000, 3606250; 530000, 3607000; 529000, 3607000; 529000, 3607250; 528250, 3607250; 528250, 3607500; 528000, 3607500; 528000, 3607750; 527750, 3607750; 527750, 3608000; 527500, 3608000; 527500, 3608500; 528250, 3608500; 528250, 3609000; 528500, 3609000; 528500, 3609250; 528750, 3609250; 528750, 3609500; 529000, 3609500; 529000, 3609750; 529250, 3609750; 529250, 3611750; 529750, 3611750; 529750, 3612500; 530000, 3612500; 530000, 3612750; 529750, 3612750; 529750, 3613500; 530000, 3613500; 530000, 3614000; 530250, 3614000; 530250, 3614750; 530500, 3614750; 530500, 3615250; 530750, 3615250; 530750, 3615750; and lands bounded by the following UTM coordinates (E, N): 534250, 3616250; 535250, 3616250; 535250, 3616000; 536500, 3616000; 536500, 3615750; 537000, 3615750; 537000, 3616000; 538000, 3616000; 538000, 3615750; 538750, 3615750; 538750, 3615500; 539500, 3615500; 539500, 3615250; 540250, 3615250; 540250, 3615000; 540750, 3615000; 540750, 3614500; 539750, 3614500; 539750, 3614750; 539500, 3614750; 539500, 3615000; 538250, 3615000; 538250, 3615250; 536000, 3615250; 536000, 3615500; 535000, 3615500; 535000, 3615750; 534250, 3615750; 534250, 3616250.

Subunit 19c: From USGS 1:24,000 quadrangle maps Descanso, and Cuyamaca Peak, the lands bounded by the following UTM coordinates (E, N): 544750, 3633000; 545250, 3633000; 545250, 3632250; 546250, 3632250; 546250, 3632500; 546750, 3632500; 546750, 3632000; 546500, 3632000; 546500, 3631750; 546250, 3631750; 546250, 3631500; 546000, 3631500; 546000, 3631250; 545750, 3631250; 545750, 3631000; 545000, 3631000; 545000, 3631250; 544750, 3631250; 544750, 3631000; 543750, 3631000; 543750, 3631500; 543500, 3631500; 543500, 3632750; 543250, 3632750; 543250, 3633000; 543000, 3633000; 543000, 3632750; 542750, 3632750; 542750, 3632500; 542250, 3632500; 542250, 3632000; 542000, 3632000; 542000, 3631750; 541500, 3631750; 541500, 3631250; 541250, 3631250; 541250, 3630750; 541000, 3630750; 541000, 3630500; 540500, 3630500; 540500, 3631250; 541000, 3631250; 541000, 3632000; 541500, 3632000; 541500, 3632750; 542000, 3632750; 542000, 3633000; 542500, 3633000; 542500, 3633250; 542750, 3633250; 542750, 3633750; 543250, 3633750; 543250, 3633500; 543500, 3633500; 543500, 3634250; 543750, 3634250; 543750, 3634500; 544250, 3634500; 544250, 3635250; 544500, 3635250; 544500, 3636000; 544750, 3636000; 544750, 3636500; 545000, 3636500; 545000, 3637000; 544750, 3637000; 544750, 3637250; 544500, 3637250; 544500, 3637750; 544250, 3637750; 544250, 3638500; 543750, 3638500; 543750, 3639000; 544250, 3639000; 544250, 3638750; 544750, 3638750; 544750, 3638250; 545000, 3638250; 545000, 3637750; 545250, 3637750; 545250, 3637500; 545500, 3637500; 545500, 3636750; 545750, 3636750; 545750, 3636500; 546250, 3636500; 546250, 3636250; 546500, 3636250; 546500, 3636000; 546250, 3636000; 546250, 3635750; 546000, 3635750; 546000, 3635500; 545750, 3635500; 545750, 3635750; 545250, 3635750; 545250, 3635250; 545000, 3635250; 545000, 3634250; 544750, 3634250; 544750, 3633000; excluding land bounded by 544750, 3633000; 544500, 3633000; 544500, 3632750; 544750, 3632750; 544750, 3633000.

Subunit 19d: From USGS 1:24,000 quadrangle maps Barrett Lake, Viejas Mtn. and Descanso, the lands bounded by the following UTM coordinates (E, N): 536750, 3629250; 537000, 3629250; 537000, 3629000; 537250, 3629000; 537250, 3628500; 536750, 3628500; 536750, 3628250; 536500, 3628250; 536500, 3628000; 536250, 3628000; 536250, 3627750; 536000, 3627750; 536000, 3627500; 535500, 3627500; 535500, 3627000; 535000, 3627000; 535000, 3626750; 534750, 3626750; 534750, 3626250; 534500, 3626250; 534500, 3626000; 534250, 3626000; 534250, 3625750; 534000, 3625750; 534000, 3625250; 533750, 3625250; 533750, 3625000; 534000, 3625000; 534000, 3624750; 533750, 3624750; 533750, 3624250; 533250, 3624250; 533250, 3622500; 533000, 3622500; 533000, 3621500; 532750, 3621500; 532750, 3620750; 532500, 3620750; 532500, 3620250; 532250, 3620250; 532250, 3620000; 531750, 3620000; 531750, 3619250; 531500, 3619250; 531500, 3618750; 531000, 3618750; 531000, 3619500; 531250, 3619500; 531250, 3620500; 531500, 3620500; 531500, 3620750; 531750, 3620750; 531750, 3620500; 532000, 3620500; 532000, 3621000; 532250, 3621000; 532250, 3621500; 532500, 3621500; 532500, 3621750; 532250, 3621750; 532250, 3622500; 532500, 3622500; 532500, 3623750; 532250, 3623750; 532250, 3623500; 531500, 3623500; 531500, 3623750; 531250, 3623750; 531250, 3624000; 531500, 3624000; 531500, 3624250; 531750, 3624250; 531750, 3624750; 532000, 3624750; 532000, 3625000; 532500, 3625000; 532500, 3624000; 532750, 3624000; 532750, 3624500; 533000, 3624500; 533000, 3624750; 533250, 3624750; 533250, 3625500; 533500, 3625500; 533500, 3626250; 533750, 3626250; 533750, 3626500; 534000, 3626500; 534000, 3626750; 534250, 3626750; 534250, 3627250; 534500, 3627250; 534500, 3627500; 534750, 3627500; 534750, 3627750; 535000, 3627750; 535000, 3628000; 535750, 3628000; 535750, 3628250; 536000, 3628250; 536000, 3628500; 536250, 3628500; 536250, 3629000; 536750, 3629000; 536750, 3629250.

Map Unit 20 (see map of Units 6, 7, and 20): Little Rock Creek, Los Angeles County, California. From USGS 1:24,000 quadrangle maps Juniper Hills and Pacifico Mtn., the lands bounded by the following UTM coordinates (E, N): 406250, 3814750; 406500, 3814750; 406500, 3814250; 406750, 3814250; 406750, 3813250; 407000, 3813250; 407000, 3812250; 407250, 3812250; 407250, 3812000; 407500, 3812000; 407500, 3811500; 408000, 3811500; 408000, 3811250; 408750, 3811250; 408750, 3811000; 409000, 3811000; 409000, 3810750; 409250, 3810750; 409250, 3810500; 409500, 3810500; 409500, 3810000; 410000, 3810000; 410000, 3809750; 410250, 3809750; 410250, 3809250; 410500, 3809250; 410500, 3809000; 411000, 3809000; 411000, 3808250; 411250, 3808250; 411250, 3808000; 411500, 3808000; 411500, 3807500; 411000, 3807500; 411000, 3807750; 410750, 3807750; 410750, 3808250; 410500, 3808250; 410500, 3808500; 410250, 3808500; 410250, 3809000; 410000, 3809000; 410000, 3809250; 409750, 3809250; 409750, 3809500; 409500, 3809500; 409500, 3809750; 409000, 3809750; 409000, 3810250; 408750, 3810250; 408750, 3810500; 408000, 3810500; 408000, 3810750; 407750, 3810750; 407750, 3811000; 407250, 3811000; 407250, 3811250; 407000, 3811250; 407000, 3811500; 406750, 3811500; 406750, 3811750; 406500, 3811750; 406500, 3813000; 406250, 3813000; 406250, 3813750; 406000, 3813750; 406000, 3813500; 405750, 3813500; 405750, 3813250; 405500, 3813250; 405500, 3813000; 405000, 3813000; 405000, 3812750; 404750, 3812750; 404750, 3813250; 405000, 3813250;

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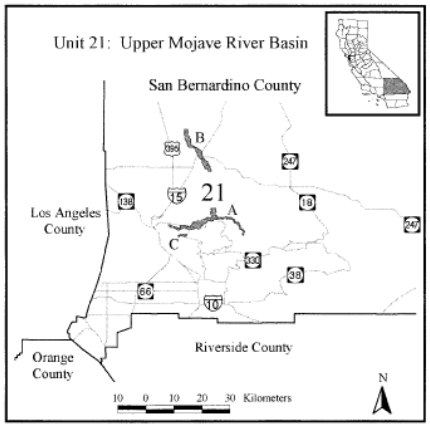

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Map Unit 21: Mojave River, San Bernardino County, California

Subunit 21a: From USGS 1:24,000 quadrangle maps Cajon, Silverwood Lake, Lake Arrowhead and Butler Peak, the lands bounded by the following UTM coordinates (E, N): 476750, 3803500; 478750, 3803500; 478750, 3802000; 478500, 3802000; 478500, 3801000; 478750, 3801000; 478750, 3800750; 479000, 3800750; 479000, 3800500; 479250, 3800500; 479250, 3800250; 480750, 3800250; 480750, 3800000; 481000, 3800000; 481000, 3800250; 482000, 3800250; 482000, 3800500; 482500, 3800500; 482500, 3800250; 484250, 3800250; 484250, 3800000; 484750, 3800000; 484750, 3799750; 485000, 3799750; 485000, 3799500; 485500, 3799500; 485500, 3798500; 486750, 3798500; 486750, 3798250; 487000, 3798250; 487000, 3797500; 487500, 3797500; 487500, 3796250; 488250, 3796250; 488250, 3795750; 488500, 3795750; 488500, 3795500; 488750, 3795500; 488750, 3795250; 489000, 3795250; 489000, 3795000; 488750, 3795000; 488750, 3794250; 488500, 3794250; 488500, 3793750; 488250, 3793750; 488250, 3794000; 488000, 3794000; 488000, 3794500; 488250, 3794500; 488250, 3795000; 488500, 3795000; 488500, 3795250; 488000, 3795250; 488000, 3795750; 487500, 3795750; 487500, 3796000; 487000, 3796000; 487000, 3796500; 487250, 3796500; 487250, 3796750; 487000, 3796750; 487000, 3797000; 486750, 3797000; 486750, 3797250; 486500, 3797250; 486500, 3797750; 486000, 3797750; 486000, 3798000; 485250, 3798000; 485250, 3798500; 485000, 3798500; 485000, 3799250; 484500, 3799250; 484500, 3799500; 483250, 3799500; 483250, 3799750; 482750, 3799750; 482750, 3799500; 482500, 3799500; 482500, 3799750; 481250, 3799750; 481250, 3799500; 480500, 3799500; 480500, 3799750; 479750, 3799750; 479750, 3799500; 479000, 3799500; 479000, 3799750; 478750, 3799750; 478750, 3799500; 477750, 3799500; 477750, 3799000; 477500, 3799000; 477500, 3798750; 476750, 3798750; 476750, 3799000; 475750, 3799000; 475750, 3798750; 475250, 3798750; 475250, 3798500; 475000, 3798500; 475000, 3798000; 474250, 3798000; 474250, 3797500; 473750, 3797500; 473750, 3797250; 473500, 3797250; 473500, 3796750; 473250, 3796750; 473250, 3796250; 473000, 3796250; 473000, 3796000; 472000, 3796000; 472000, 3796250; 471000, 3796250; 471000, 3796000; 470000, 3796000; 470000, 3795750; 468500, 3795750; 468500, 3796000; 468250, 3796000; 468250, 3796250; 468000, 3796250; 468000, 3796000; 467750, 3796000; 467750, 3796250; 466500, 3796250; 466500, 3796000; 466000, 3796000; 466000, 3795750; 465500, 3795750; 465500, 3795500; 465000, 3795500; 465000, 3795750; 464500, 3795750; 464500, 3796000; 464250, 3796000; 464250, 3796250; 463750, 3796250; 463750, 3796500; 462500, 3796500; 462500, 3796750; 462250, 3796750; 462250, 3797000; 462000, 3797000; 462000, 3797250; 461500, 3797250; 461500, 3797750; 462500, 3797750; 462500, 3797500; 462750, 3797500; 462750, 3797250; 463250, 3797250; 463250, 3797000; 464000, 3797000; 464000, 3796750; 464750, 3796750; 464750, 3796500; 466000, 3796500; 466000, 3796750; 465750, 3796750; 465750, 3797500; 467750, 3797500; 467750, 3797250; 468250, 3797250; 468250, 3797000; 468500, 3797000; 468500, 3797250; 468750, 3797250; 468750, 3797000; 469000, 3797000; 469000, 3796750; 469750, 3796750; 469750, 3797000; 469500, 3797000; 469500, 3797500; 470000, 3797500; 470000, 3798000; 470250, 3798000; 470250, 3798500; 470500, 3798500; 470500, 3798250; 470750, 3798250; 470750, 3798500; 471000, 3798500; 471000, 3798750; 471750, 3798750; 471750, 3799000; 473500, 3799000; 473500, 3799250; 473750, 3799250; 473750, 3799500; 474250, 3799500; 474250, 3799750; 475000, 3799750; 475000, 3800000; 475500, 3800000; 475500, 3800250; 476250, 3800250; 476250, 3800000; 476500, 3800000; 476500, 3800250; 477000, 3800250; 477000, 3800500; 477250, 3800500; 477250, 3800750; 477000, 3800750; 477000, 3801000; 476750, 3801000; 476750, 3802500; 477000, 3802500; 477000, 3802750; 476750, 3802750; 476750, 3803500.

Subunit 21b: From USGS 1:24,000 quadrangle maps Victorville, Hesperia, and Helendale, the lands bounded by the following UTM coordinates (E, N): 467250, 3831750; 468750, 3831750; 468750, 3829500; 469000, 3829500; 469000, 3829000; 469250, 3829000; 469250, 3828500; 469500, 3828500; 469500, 3828000; 469750, 3828000; 469750, 3826250; 470000, 3826250; 470000, 3826000; 470500, 3826000; 470500, 3825750; 471000, 3825750; 471000, 3825500; 471250, 3825500; 471250, 3825250; 472000, 3825250; 472000, 3825000; 472250, 3825000; 472250, 3824750; 472750, 3824750; 472750, 3824500; 473000, 3824500; 473000, 3824250; 473250, 3824250; 473250, 3824000; 473500, 3824000; 473500, 3823750; 473750, 3823750; 473750, 3822250; 474000, 3822250; 474000, 3821750; 473750, 3821750; 473750, 3821500; 474000, 3821500; 474000, 3821250; 474500, 3821250; 474500, 3821000; 474750, 3821000; 474750, 3820750; 475000, 3820750; 475000, 3820500; 475250, 3820500; 475250, 3820250; 475750, 3820250; 475750, 3819500; 476000, 3819500; 476000, 3819250; 476250, 3819250; 476250, 3818750; 476500, 3818750; 476500, 3818000; 476750, 3818000; 476750, 3817250; 477000, 3817250; 477000, 3816750; 475750, 3816750; 475750, 3817500; 474750, 3817500; 474750, 3818000; 474500, 3818000; 474500, 3818250; 474250, 3818250; 474250, 3818750; 474000, 3818750; 474000, 3819500; 473750, 3819500; 473750, 3819750; 473500, 3819750; 473500, 3820750; 473750, 3820750; 473750, 3821000; 473000, 3821000; 473000, 3821250; 472750, 3821250; 472750, 3821500; 472500, 3821500; 472500, 3822000; 472250, 3822000; 472250, 3822500; 472000, 3822500; 472000, 3823250; 471750, 3823250; 471750, 3823750; 471500, 3823750; 471500, 3824000; 471250, 3824000; 471250, 3824750; 471000, 3824750; 471000, 3825000; 470750, 3825000; 470750, 3825250; 469000, 3825250; 469000, 3825500; 468500, 3825500; 468500, 3826250; 468250, 3826250; 468250, 3827500; 468000, 3827500; 468000, 3827750; 467750, 3827750; 467750, 3828250; 467500, 3828250; 467500, 3829750; 467250, 3829750; 467250, 3831750.

Subunit 21c: From USGS 1:24,000 quadrangle maps Cajon, and Silverwood Lake, the lands bounded by the following UTM coordinates (E, N): 466000, 3794250; 468250, 3794250; 468250, 3793500; 467500, 3793500; 467500, 3793250; 467000, 3793250; 467000, 3793500; 466750, 3793500; 466750, 3793750;

466500, 3793750; 466500, 3793500; 465750, 3793500; 465750, 3793250; 465250, 3793250; 465250, 3793500; 465000, 3793500; 465000, 3793750; 465500, 3793750; 465500, 3794000; 466000, 3794000; 466000, 3794250.

Map Unit 22 (see map of Units 9 and 22): Whitewater River, Riverside County, California. From USGS 1:24,000 quadrangle maps Catclaw Flat, and White Water, the lands bounded by the following UTM coordinates (E, N): 530250, 3764000; 531000, 3764000; 531000, 3763250; 531250, 3763250; 531250, 3762250; 531500, 3762250; 531500, 3762000; 531750, 3762000; 531750, 3761250; 532000, 3761250; 532000, 3760750; 532250, 3760750; 532250, 3760500; 532500, 3760500; 532500, 3759750; 532750, 3759750; 532750, 3758750; 533000, 3758750; 533000, 3757750; 533250, 3757750; 533250, 3757500; 533500, 3757500; 533500, 3756250; 533750, 3756250; 533750, 3754750; 533500, 3754750; 533500, 3755000; 533000, 3755000; 533000, 3755250; 532750, 3755250; 532750, 3757250; 532500, 3757250; 532500, 3757500; 532250, 3757500; 532250, 3758000; 532000, 3758000; 532000, 3759000; 531750, 3759000; 531750, 3760000; 531500, 3760000; 531500, 3760750; 531000, 3760750; 531000, 3761000; 530750, 3761000; 530750, 3761500; 530500, 3761500; 530500, 3762000; 530250, 3762000; 530250, 3763250; 530000, 3763250; 530000, 3763750; 530250, 3763750; 530250, 3764000.

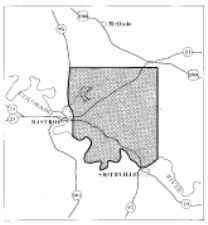
Houston Toad (Bufo houstonensis)

Texas: Areas of land, water, and airspace as follows:

(1) *Bastrop County.* From the junction of a line corresponding to 30°12'00" N. and Texas State Highway 95 east along a line corresponding to 30°12'00" N. to where it intersects a line corresponding to 97°7'30" W. and south along a line corresponding to 97°7'30" W. to where it intersects the Colorado River, west and northwest along the north bank of the Colorado River to the due southward extension of Texas State Highway 95, and north along that extension and Texas State Highway 95 to where it intersects a line corresponding to 30°12'00" N.

Note:

Map follows:



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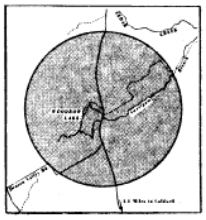
(2) *Burleson County.* A circular area with a 1-mile radius, the center being the north entrance to Lake Woodrow from Texas FM 2000.

Note:

Map follows:



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(e) *Fishes.*

Yaqui Catfish (Ictalurus pricei)

Arizona, Cochise County. All aquatic habitats of San Bernardino NWR in S 1/2 Sec. 11; Sec. 14; S 1/2 and NE 1/4 Sec. 15; T24S, R30E.

Known constituent elements include clean unpolluted permanent water in streams with medium current with clear pools in the Rio Yaqui drainage. These waters should be without introduced exotic fishes.

Note:

Map follows:

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Alabama Cavefish (Speoplatyrhinus poulsoni)

Alabama. Lauderdale County. More Specific locality data for Federal agencies fulfilling their obligations under Section 7 of the Endangered Species Act of 1973 can be obtained from the Office of Endangered Species, U.S. Fish and Wildlife Service, Washington, DC 20240.

Note: No map.

Bonytail Chub (Gila elegans)

Description of areas taken from the Bureau of Land Management (BLM) 1:100,000 scale maps (available from BLM State Offices): Rangely, CO 1989; Canyon of Lodore, CO 1990; Seep Ridge, UT/CO 1982; La Sal, UT/CO 1985; Hite Crossing, UT 1982; Parker, AZ/CA 1980; Davis Dam, AZ/NV/CA 1982; Boulder City, NV/AZ 1978; Needles, CA 1986.

Colorado: Moffat County. The Yampa River from the boundary of Dinosaur National Monument in T.6N., R.99W., sec. 27 (6th Principal Meridian) to the confluence with the Green River in T.7N., R.103W., sec. 28 (6th Principal Meridian).

Utah: Uintah County; and Colorado: Moffat County. The Green River from the confluence with the Yampa River in T.7N., R.103W., sec. 28 (6th Principal Meridian) to the boundary of Dinosaur National Monument in T.6N., R.24E., sec. 30 (Salt Lake Meridian).

Utah: Uintah and Grand Counties. The Green River (Desolation and Gray Canyons) from Sumner's Amphitheater in T.12S., R.18E., sec. 5 (Salt Lake Meridian) to Swasey's Rapid in T.20S., R.16E., sec. 3 (Salt Lake Meridian).

Utah: Grand County; and Colorado: Mesa County. The Colorado River from Black Rocks in T.10S., R.104W., sec. 25 (6th Principal Meridian) to Fish Ford in T.21S., R.24E., sec. 35 (Salt Lake Meridian).

Utah: Garfield and San Juan Counties. The Colorado River from Brown Betty Rapid in T.30S., R.18E., sec. 34 (Salt Lake Meridian) to Imperial Canyon in T.31S., R.17E., sec. 28 (Salt Lake Meridian).

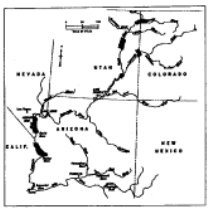
Arizona: Mohave County; Nevada: Clark County; and California: San Bernardino County. The Colorado River from Hoover Dam in T.30N., R.23W., sec. 3 (Gila and Salt River Meridian) to Davis Dam in T.21N., R.21W., sec. 18 (Gila and Salt River Meridian) including Lake Mohave up to its full pool elevation.

Arizona: Mohave County; and California: San Bernardino County. The Colorado River from the northern boundary of Havasu National Wildlife Refuge in R.22W., T.16N., sec. 1 (Gila and Salt River Meridian) to Parker Dam in T.11N., R.18W., sec. 16 (Gila and Salt River Meridian) including Lake Havasu up to its full pool elevation.

Known constituent elements include water, physical habitat, and biological environment as required for each particular life stage for each species.

Note:

Map follows:



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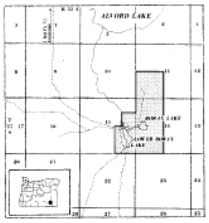
Borax Lake Chub (Gila boraxobius)

Oregon. Harney County. Borax Lake and environments associated with the outflow from Borax Lake located within SW 1/4 Sec. 11, W 1/2 Sec. 14, E 3/4 of the SE 1/4 Sec. 15, and the SE 1/4 of the NE 1/4 Sec. 15; T37S; R33E.

Note:

Map follows:



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Humpback Chub (Gila cypha)

Description of areas taken from BLM 1:100,000 scale maps (available from BLM State Offices): Rangely, CO 1989; Canyon of Lodore, CO 1990; Seep Ridge, UT/CO 1982; Vernal, UT/CO 1982; Grand Junction, CO 1990; Moab, UT/CO 1985; La Sal, UT/CO 1985; Tuba City, AZ 1983; Peach Springs, AZ 1980; Grand Canyon, AZ 1980; Mt. Trumbull, AZ 1979.

Colorado: Moffat County. The Yampa River from the boundary of Dinosaur National Monument in T.6N., R.99W., sec. 27 (6th Principal Meridian) to the confluence with the Green River in T.7N., R.103W., sec. 28 (6th Principal Meridian).

Utah: Uintah County; and Colorado: Moffat County. The Green River from the confluence with the Yampa River in T.7N., R.103W., sec. 28 (6th Principal Meridian) to the southern boundary of Dinosaur National Monument in T.6N., R.24E., sec. 30 (Salt Lake Meridian).

Utah: Uintah and Grand Counties. The Green River (Desolation and Gray Canyons) from Sumner's Amphitheater in T.12S., R.18E., sec. 5 (Salt Lake Meridian) to Swasey's Rapid in T.20S., R.16E., sec. 3 (Salt Lake Meridian).

Utah: Grand County; and Colorado: Mesa County. The Colorado River from Black Rocks in T.10S., R.104W., sec. 25 (6th Principal Meridian) to Fish Ford River in T.21S., R.24E., sec. 35 (Salt Lake Meridian).

Utah: Garfield and San Juan Counties. The Colorado River from Brown Betty Rapid River in T.30S., R.18E., sec. 34 (Salt Lake Meridian) to Imperial Canyon in T.31S., R.17E., sec. 28 (Salt Lake Meridian).

Arizona: Coconino County. The Little Colorado River from river mile 8 in T.32N., R.6E., sec. 12 (Salt and Gila River Meridian) to the confluence with the Colorado River in T.32N., R.5E., sec. 1 (Salt and Gila River Meridian).

Arizona: Coconino County. The Colorado River from Nautiloid Canyon in T.36N., R.5E., sec. 35 (Salt and Gila River Meridian) to Granite Park in T.30N., R.10W., sec. 25 (Salt and Gila River Meridian).

Known constituent elements include water, physical habitat, and biological environment as required for each particular life stage for each species.

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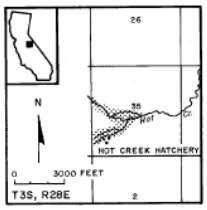
Owens Tui Chub (Gila bicolor snyderi)

California, Mono County

1. Hot Creek, adjacent springs and their outflows in the vicinity of Hot Creek Hatchery, and 50 feet of riparian habitat on all sides of the creek and springs in T3S, R28E, SW 1/4 Section 35.

Note:

Map follows:



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2. Owens River, and 50 feet on both sides of the river, from Long Valley Dam downstream for 8 stream miles in T4S, R30E, Sections 19, 20, 21, 22, 23, 24, 25, and 36.

Note:

Map follows:

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Known constituent elements include high quality, cool water with adequate cover in the form of rocks, undercut banks, or aquatic vegetation and a sufficient insect food base.

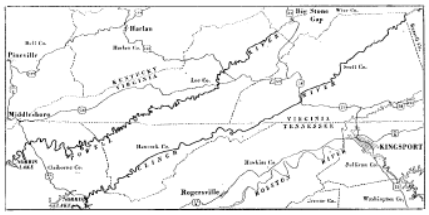
Slender Chub (Erimystax =(Hybopsis) cahni)

Tennessee. Claiborne and Hancock Counties. Powell River, main channel from backwaters of Norris Lake upstream to the Tennessee-Virginia State line. Clinch River, main channel from backwaters of Norris Lake upstream to the Tennessee-Virginia State line.

Virginia. Lee and Scott Counties. Powell River, main channel from the Tennessee-Virginia State line upstream through Lee County, Va. Clinch River, main channel from the Tennessee-Virginia State line upstream through Scott County, Va.

Note:

Map follows:



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Sonora Chub (Gila ditaenia)

Arizona, Santa Cruz County. An area of land and water in the Coronado National Forest, consisting of the following:

1. Sycamore Creek, and a riparian zone 25 feet wide along each side of the creek, from Yank's Spring downstream approximately 5 stream miles to the International Border with Mexico within sections 14, 22, 23, 27, 33, and 34, T. 23 S.; R. 11 E.

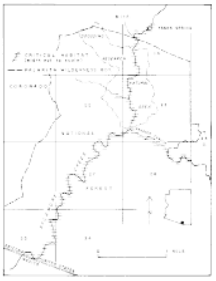
2. Yank's Spring in the SE 1/4 of the NW 1/4 of sec. 14, T. 23 S.; R. 11 E.

3. Penasco Creek, including a riparian zone 25 feet wide along each side of the creek, from its confluence with Sycamore Creek (SW 1/4 of the SW 1/4 of sec. 23, T. 23 S.; R. 11 E.) upstream approximately 1 1/4 miles to the east boundary of sec. 26, T. 23 S. R. 11 E.;

4. An unnamed tributary to Sycamore Creek, from its confluence with Sycamore Creek (SW 1/4 of the NW 1/4 of sec. 23, T. 23 S.; R. 11 E.) upstream approximately 1/4 mile to the west boundary of the NE 1/4 of the SE 1/4 of the NE 1/4 sec. 22, T. 23 S.; R. 11 E.

Note:

Map follows:



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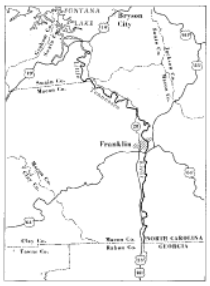
Known primary constituent elements include clean permanent water with pools and intermediate riffle areas and/or intermittent pools maintained by bedrock or by subsurface flow in areas shaded by canyon walls.

Spotfin Chub (Cyprinella (=Hybopsis) monacha)

North Carolina. Macon and Swain Counties. Little Tennessee River, main channel from the backwaters of Fontana Lake upstream to the North Carolina-Georgia State line.

Note:

Map follows:



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Tennessee. Cumberland, Fentress, and Morgan Counties. Emory and Obed Rivers and Clear and Daddys Creek in Morgan County. Clear Creek in Fentress County. Obed River upstream to U.S. Interstate Highway 40, Clear Creek upstream to U.S. Interstate Highway 40 and Daddys Creek upstream to U.S. Highway 127 in Cumberland County.

Note:

Map follows:

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Tennessee. Hawkins and Sullivan Counties. North Fork Holston, main channel upstream from junction with South Fork Holston River to the Tennessee-Virginia State line.

Virginia. Scott and Washington Counties. North Fork Holston River, main channel from the Virginia-Tennessee State line upstream through Scott and Washington Counties.

Note:

Map follows:

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Virgin River Chub (Gila seminuda)

Legal descriptions for St. George (Utah-Arizona) and Littlefield (Arizona) were obtained from the 1987 Bureau of Land Management (BLM) maps (Surface Management Status 30×60 Minute Quadrangle). Legal descriptions for Overton (Nevada-Arizona) were obtained from the 1989 BLM maps (Surface Management Status 30×60 Minute Quadrangle). The 100-year floodplain for many areas is detailed in Flood Insurance Rate Maps (FIRM) published by and available through the Federal Emergency Management Agency (FEMA). In areas where a FIRM is not available, the presence of alluvium soils or known high water marks can be used to determine the extent of the floodplain. Only areas of floodplain containing at least one of the constituent elements are considered critical habitat. Critical habitat designated for the Virgin River chub is as follows:

Utah, Washington County; Arizona, Mohave County; Nevada, Clark County. The Virgin River and its 100-year floodplain from its confluence with La Verkin Creek, Utah in T.41S., R.13W., sec.23 (Salt Lake Base and Meridian) to Halfway Wash, Nevada T.15S., R.69E., sec.6 (Salt Lake Base and Meridian).

The primary constituent elements of critical habitat determined necessary for the survival and recovery of these Virgin River fishes are water, physical habitat, and biological environment. The desired conditions for each of these elements are further discussed below.

Water—A sufficient quantity and quality of water (i.e., temperature, dissolved oxygen, contaminants, nutrients, turbidity, etc.) that is delivered to a specific location in accordance with a hydrologic regime that is identified for the particular life stage for each species. This includes the following:

1. Water quality characterized by natural seasonally variable temperature, turbidity, and conductivity;

2. hydrologic regime characterized by the duration, magnitude, and frequency of flow events capable of forming and maintaining channel and instream habitat necessary for particular life stages at certain times of the year; and

3. flood events inundating the floodplain necessary to provide the organic matter that provides or supports the nutrient and food sources for the listed fishes.

Physical Habitat—Areas of the Virgin River that are inhabited or potentially habitable by a particular life stage for each species, for use in spawning, nursing, feeding, and rearing, or corridors between such areas:

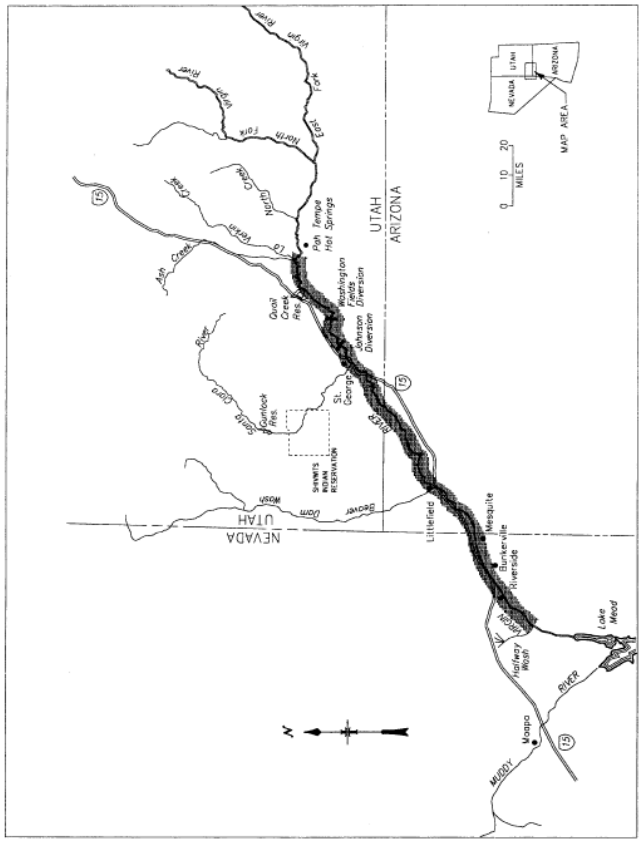
1. River channels, side channels, secondary channels, backwaters, and springs, and other areas which provide access to these habitats; and

2. areas with slow to moderate velocities, within deep runs or pools, with predominately sand substrates, particularly habitats which contain boulders or other instream cover.

Biological Environment—Food supply, predation, and competition are important elements of the biological environment and are considered components of this constituent element. Food supply is a function of nutrient supply, productivity, and availability to each life stage of the species. Predation and competition, although considered normal components of this environment, are out of balance due to nonnative fish species in many areas. Fourteen introduced species, including red shiner (*Cyprinella lutrensis*), black bullhead (*Ameiurus melas*), channel catfish (*Ictalurus punctatus*), and largemouth bass (*Micropterus salmoides*), compete with or prey upon the listed fishes. Of these, the red shiner is the most numerous and has been the most problematic for the listed fishes. Red shiners compete for food and available habitats and are known to prey on the eggs and early life stages of the listed fishes. Components of this constituent element include the following:

1. Seasonally flooded areas that contribute to the biological productivity of the river system by producing allochthonous (humus, silt, organic detritus, colloidal matter, and plants and animals produced outside the river and brought into the river) organic matter which provides and supports much of the food base of the listed fishes; and

2. few or no predatory or competitive nonnative species in occupied Virgin River fishes' habitats or potential reestablishment sites.



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Yaqui Chub (Gila purpurea)

Arizona, Cochise County. All aquatic habitats of San Bernardino NWR in S 1/2 Sec. 11; Sec. 14; S 1/2 and NE 1/4 Sec. 15; T24S, R30E. Known constituent elements include clean permanent water with deep pools and intermediate areas with riffles, areas of detritus or heavily overgrown cut banks in the Rio Yaqui drainage, and the absence of introduced exotic fishes.

Note:

Map follows:

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Ash Meadows Speckled Dace (Rhinichthys osculus nevadensis)

Nevada, Nye County: Each of the following springs and outflows plus surrounding land areas for a distance of 50 meters (164 feet) from these springs and outflows:

Bradford Springs in Section 11, T18S, R50E, and their outflows for a distance of 300 meters (984 feet) from the springs.

Jack Rabbit Spring and its outflow flowing southwest to the boundary between Section 24 in T18S, R50E and Section 19, T18S, R51E.

Big Spring and its outflow to the boundary between Section 19, T18S, R51E and Section 24, T18S, R50E.

Note:

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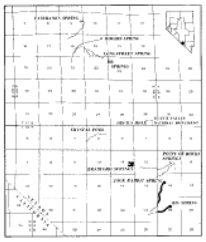

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Known constituent elements include warm-water springs and their outflows and surrounding land areas that provide vegetation for cover and habitat for insects and other invertebrates on which the species feeds.

Desert Dace (Eremichthys acros)

Nevada, Humboldt County. Thermal springs and their outflows plus surrounding riparian areas for a distance of 50 feet from these springs and outflows in T40N, R25E, SW 1/4 Section 5, NW 1/4NW 1/4 Section 8, W 1/2 Section 18, W 1/2SW 1/4 Section 19; T40N, R24E, Section 23, N 1/2SE 1/4 and S 1/2NE 1/4 Section 24, SE 1/4 Section 25, N 1/2 Section 25, and N 1/2 Section 26.

Note:

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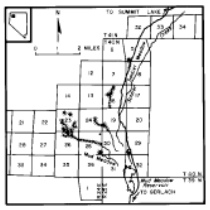

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Primary constituent elements of the habitat are considered to be quantity, and thermal and chemical quality of water in headpools and spring outflow streams; presence of a stable, natural substrate supporting food plants for the fish; and length of outflow streams; adequate for seasonal movements in response to changes of water temperature.

Amber Darter (Percina antesella)

Tennessee and Georgia: Conasauga River from the U.S. Route 411 bridge in Polk County, Tennesee, downstream approximately 33.5 miles through Bradley County, Tennessee and Murray and Whitfield Counties, Georgia, to the Tibbs Bridge Road bridge (Murray County Road 109 and Whitfield County Road 100).

Constituent elements include high quality water, riffle areas (free of silt) composed of sand, gravel, and cobble, which becomes vegetated primarily with *Podostemum* during the summer.

Note:

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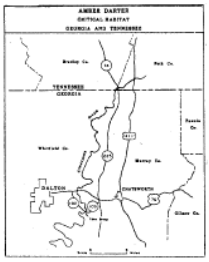

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Fountain Darter (Etheostoma fonticola)

Texas, Hays County; Spring Lake and its outflow, the San Marcos River, downstream approximately 0.5 miles below Interstate Highway 35 bridge.

Note:

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Leopard Darter (Percina pantherina)

Oklahoma. McCurtain and Pushmataha Counties. Little River, main channel in Pushmataha County from mouth of Cloudy Creek (T. 3 S.; R. 20 E.; Section 3) upstream to the Pushmataha-Le Flore County line. Black Fork Creek in McCurtain County from its junction with Little River (T. 1 S.; R. 20 E.; Section 22) upstream to Oklahoma Highway 144 crossing (T. 1 S.; R. 19 E.; Section 12). Glover Creek, main channel in McCurtain County from Oklahoma Highway 7 crossing (T. 5 S.; R. 23 E.; Section 28) upstream to the

junction of the East Fork and West Fork of Glover Creek. East Fork and West Fork of Glover Creek. East Fork of Glover Creek, main channel in Pushmataha County from its junction with the West Fork Glover Creek (T. 3 S.; R. 23 E.; Section 7) upstream to 4 air miles north-northeast of the community of Bethel (T. 2 S.; R. 24 E.; Section 5). West Fork Glover Creek, main channel in McCurtain County from its junction with the East Fork Glover Creek upstream to the community of Battiest (T. 2 S.; R. 23 E.; Section 7). Mountain Fork Creek, main channel in McCurtain County, from mouth of Boktukola Creek (T. 2 S.; R. 25 E.; Section 9), 6 air miles south-southwest of Smithville, upstream to the Oklahoma-Arkansas State line.

Arkansas. Polk County. Mountain Fork Creek, main channel from the Arkansas-Oklahoma State line upstream to the community of Mountain Fork (T. 1 S.; R. 32 W.; Section 29).

Note:

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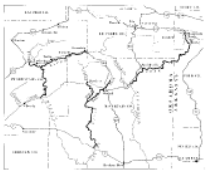

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Maryland Darter (Etheostoma sellare)

Maryland (Harford County): (1) Deer Creek main channel from the junction with Elbow Branch thence downstream to the junction with the Susquehanna River. (2) Gasheys Run (also known as Gasheys Creek) main channels of east and west forks from their overcrossing by old Penn Central Railroad (presently titled to National Railroad Passenger Corporation, Amtrak) south to their confluence, thence south to the confluence with Swan Creek.

Note:

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Constituent elements of this habitat are considered to be quality and permanence of streamflow in shallow areas of the streams (riffles), and presence of unsilted rocky crevices for shelter and production of aquatic insects and snails for food.

Niangua Darter (Etheostoma nianguae)

Missouri. Big Tavern Creek, Miller County. Big Tavern Creek and 50 feet along each side of the creek from Highway 52 upstream to Highway 17.

Note:

Map follows:

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Missouri. Niangua River, Dallas County. Niangua River and 50 feet on each side of the river from county road K upstream to 1 mile beyond county road M to the Webster County line.

Missouri. Pomme de Terre River, Greene County. Pomme de Terre River and 50 feet on each side of the river from Highway 65 upstream to the Webster County line.

Note:

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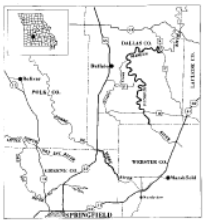

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Missouri. Brush Creek, Cedar, and St. Clair Counties. Brush Creek and 50 feet on each side of the creek from 1000 feet upstream of county road J to the boundary of Sections 34 and 35, Township 36 N, Range 25 W.

Note:

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Missouri. Little Niangua River, Camden, Dallas, and Hickory Counties. Little Niangua River and 50 feet on each side of the river from 1 mile below (downstream of) Highway 54, Camden County, to county road E, Dallas County.

Note:

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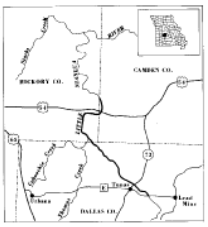

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Constituent elements, for all areas designated as critical habitat, consist of medium-sized creeks with silt-free pools and riffles and moderately clear water draining hilly areas underlain by chert and dolomite. Water ranges from 8 to 46 inches in depth over gravel with scattered rubble.

Slackwater Darter (Etheostoma boschungi)

Alabama. Lauderdale County. All permanent and intermittent streams with flowing water from December to June tributary to Cypress Creek and its tributaries upstream from the junction of Burcham Creek, including Burcham Creek, excluding Threet Creek and its tributaries.

Tennessee. Wayne County. All permanent and intermittent streams with flowing water from December to June tributary to Cypress and Middle Cypress Creek drainage.

Note:

Maps follow.

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Tennessee. Lawrence County, Buffalo River and its tributaries in Lawrence County, Tenn.

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San Marcos Gambusia (Gambusia georgei)

Texas, Hays County; San Marcos River from Highway 12 bridge downstream to approximately 0.5 miles below Interstate Highway 35 bridge.

Note:

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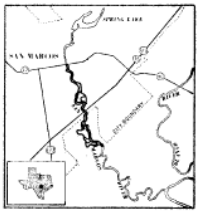

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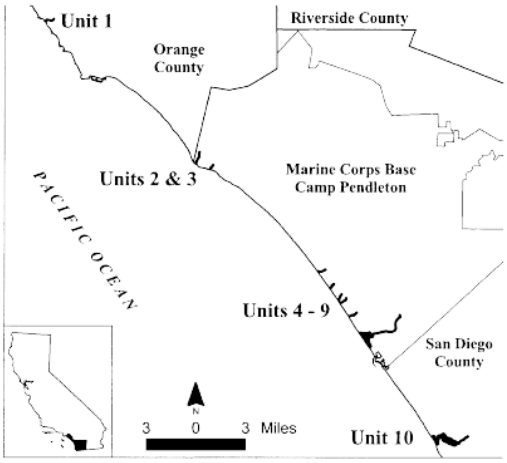
Tidewater goby (Eucyclogobius newberrii)

1. Critical habitat units are depicted for Orange and San Diego Counties, California, on the maps below and as described below.

2. Critical habitat includes the sections of streams indicated on the maps below and areas within these reaches potentially inundated by high flow events. Where delineated, this is the 50-year flood plain of the designated waterways. In areas where the 50-year flood plain is not delineated the presence of alluvial soils (soils deposited by streams), obligate and facultative wetland vegetation, abandoned river channels, or evidence of high water marks can be used to determine the extent of the floodplain. Critical habitat does not include existing man-made features and structures within this area, such as buildings, roads, railroads, and other features, which do not contain, and do not have the potential to develop the primary constituent elements for the tidewater goby.

3. Within these areas, the primary constituent elements include, but are not limited to, those habitat components that are essential for the primary biological needs of foraging, sheltering, and reproduction. These elements include coastal lagoons and estuary systems supported by a natural hydrological regime, which results in sufficient streamflow, areas of shallow water as well as deep pockets of permanent water, sand and silt substrate, a variety of aquatic and emergent vegetation, and a diversity of prey species; and an environment free from exotic fishes.



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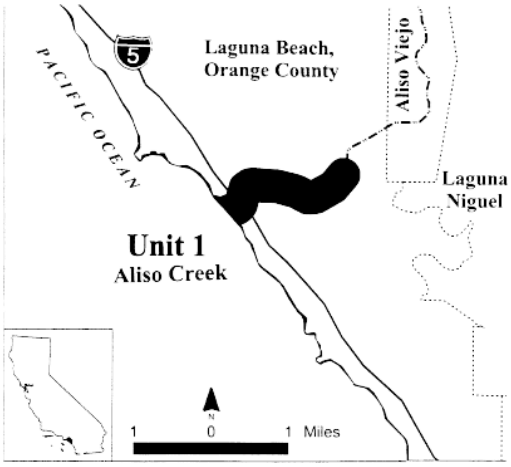
Map Unit 1: Orange County, California. From USGS 7.5' quadrangle map Laguna Beach, California, and San Juan Capistrano, California. San Bernardino Principal Meridian, California, T. 7 S., R 8 W., beginning at a point on Aliso Creek in SW sec. 32 and at approximately 33°30'46" N latitude and 117°44'37" W longitude, UTM coordinates 430853.4 E, 3708395.9 N, and proceeding downstream (westerly) to the Pacific Ocean covering approximately 1.0 km (0.6 mi.), including the stream, its 50-year flood plain, and associated lagoons and marsh.



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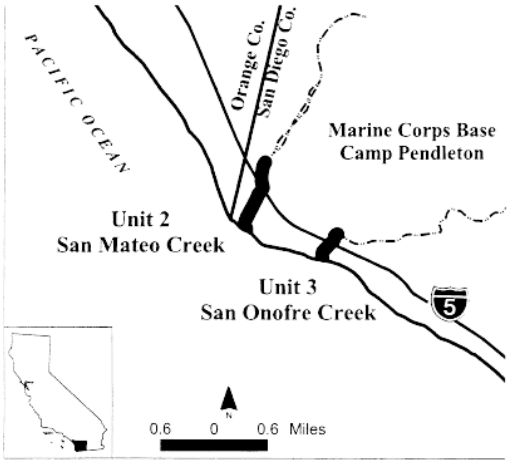
Map Unit 2: San Diego County, California. From USGS 7.5' quadrangle map San Clemente, California. San Bernardino Principal Meridian, California, T. 9 S., R. 7 W., beginning at a point on San Mateo Creek in NW sec. 14 and at approximately 33°23'46" N latitude and 117°35'20" W longitude, UTM coordinates 445152.5 E, 3695369.7 N, and proceeding downstream (southerly) to the Pacific Ocean covering approximately 1.3 km (0.9 mi.), including the stream, its 50-year flood plain, and associated lagoons and marsh.

Map Unit 3: San Diego County, California. From USGS 7.5' quadrangle map San Clemente, California. San Bernardino Principal Meridian, California, T. 9 S., R. 7 W., beginning at a point on San Onofre Creek in SE sec. 14 and at approximately 33°23'05" N latitude and 117°34'30" W longitude, UTM coordinates 446450.2 E, 3694074.4 N, and proceeding downstream (southwesterly) to the Pacific Ocean covering approximately 0.6 km (0.4 mi.), including the stream, its 50-year flood plain, and associated lagoons and marsh.



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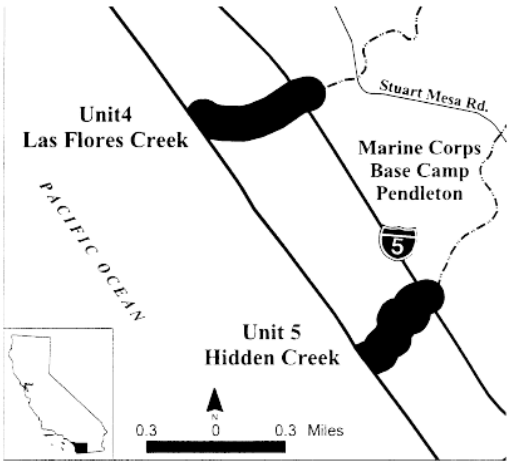
Map Unit 4: San Diego County, California. From USGS 7.5' quadrangle map Las Pulgas Canyon, California. San Bernardino Principal Meridian, California, T. 10 S., R. 6 W., beginning at a point on Las Flores Creek in the middle of sec. 13 and at approximately 33°17'32" N latitude and 117°27'20" W longitude, UTM coordinates 457495.3 E, 3683780.1 N, and proceeding downstream (westerly) to the Pacific Ocean covering approximately 0.8 km (0.5 mi.), including the stream, its 50-year flood plain, and associated lagoons and marsh.

Map Unit 5: San Diego County, California. From USGS 7.5' quadrangle map Las Pulgas Canyon, California. San Bernardino Principal Meridian, California, T. 10 S., R. 5 W., beginning at a point on Hidden Creek in W sec. 30 and at approximately 33°16'46" N latitude and 117°26'48" W longitude, UTM coordinates 458321.5 E, 3682362.9 N, and proceeding downstream (southwesterly) to the Pacific Ocean covering approximately 0.8 km (0.5 mi.), including the stream, its 50-year flood plain, and associated lagoons and marsh.



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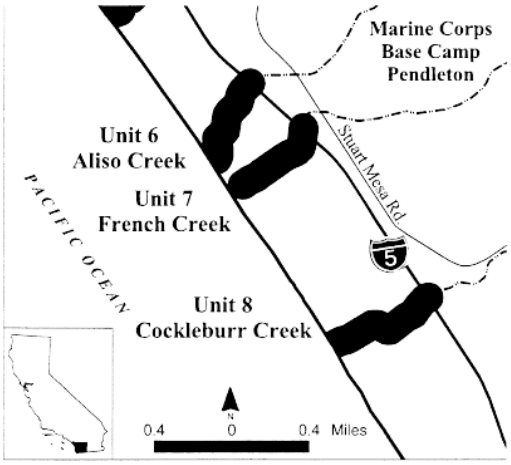
Map Unit 6: San Diego County, California. From USGS 7.5' quadrangle map Las Pulgas Canyon, California. San Bernardino Principal Meridian, California, T. 10 S., R. 5 W., beginning at a point on Aliso Creek in NE sec. 31 and at approximately 33°16'13" N latitude and 117°26'19" W longitude, UTM coordinates 459521.7 E, 3680981.1 N, and proceeding downstream (southwesterly) to the Pacific Ocean covering approximately 0.7 km (0.4 mi.), including the stream, its 50-year flood plain, and associated lagoons and marsh.

Map Unit 7: San Diego County, California. From USGS 7.5' quadrangle map Las Pulgas Canyon, California. San Bernardino Principal Meridian, California, T. 10 S., R. 5 W., beginning at a point on French Creek in E sec. 31 and at approximately 33°16'01" N latitude and 117°26'01" W longitude, UTM coordinates 459078.8 E, 3681354.4 N, and proceeding downstream (westerly) to the Pacific Ocean covering approximately 0.7 km (0.4 mi.), including the stream, its 50-year flood plain, and associated lagoons and marsh.

Map Unit 8: San Diego County, California. From USGS 7.5' quadrangle map Las Pulgas Canyon, California. San Bernardino Principal Meridian, California, T. 11 S., R. 5 W., beginning at a point on Cockleburr Creek in NE sec. 5 and at approximately 33°15'16" N latitude and 117°25'21" W longitude, UTM coordinates 460570.4 E, and 3679563.4 N, and proceeding downstream (westerly) to the Pacific Ocean covering approximately 1.0 km (0.6 mi.), including the stream, its 50-year flood plain, and associated lagoons and marsh.



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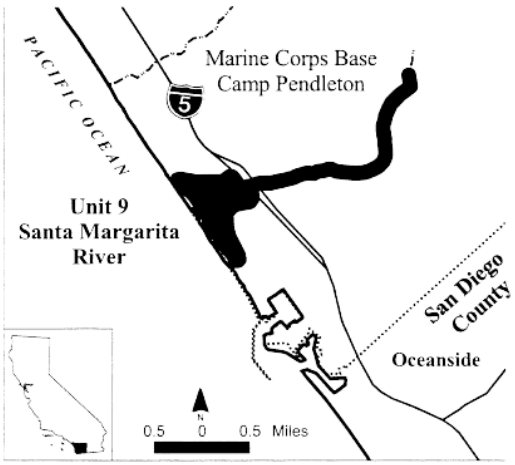
Map Unit 9: San Diego County, California. From USGS 7.5' quadrangle map Oceanside, California. San Bernardino Principal Meridian, California, T. 11 S., R. 5 W., beginning at a point on the Santa Margarita River in NW sec. 2 and at approximately 33°15'08" N latitude and 117°22'38" W longitude, UTM coordinates 464774.9 E, 3679326.9 N, and proceeding downstream (westerly) to the Pacific Ocean covering approximately 5.0 km (3.1 mi.), including the river's 50-year flood plain, associated lagoons and marsh.



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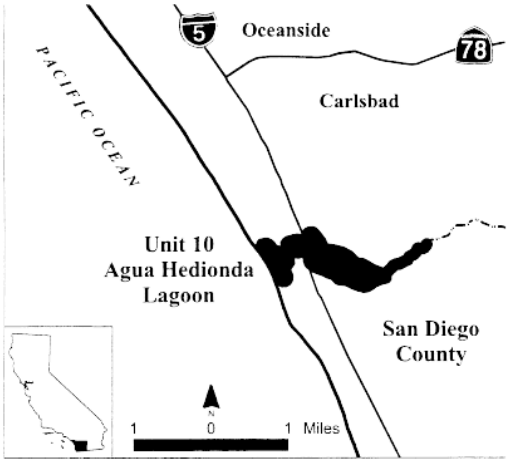
Map Unit 10: San Diego County, California. From USGS 7.5' quadrangle map San Luis Rey, California. San Bernardino Principal Meridian, California, T. 12 S., R. 4 W., beginning at a point on Augua Hedionda Creek in the middle of Section 9 and at approximately 33°08'44" N latitude and 117°18'19" W longitude, UTM coordinates 471444.4 E, 3667474.6 N, and proceeding downstream (southwesterly) to the Pacific Ocean covering approximately 3.7 km (2.3 mi.), including the creek, its 50-year flood plain, Agua Hedionda Lagoon, and associated marsh.



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Conasauga Logperch (Percina jenkinsi)

Tennessee and Georgia: Conasauga River from the confluence of Halfway Branch with the Conasauga River in Polk County, Tennessee, downstream approximately 11 miles to the Georgia State Highway 2 Bridge, Murray County, Georgia.

Constituent elements include high quality water, pool areas with flowing water and silt free riffles with gravel and rubble substrate, and fast riffle areas and deeper chutes with gravel and small rubble.

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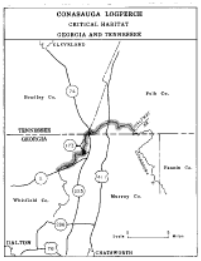

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Smoky Madtom (Noturus baileyi)

Tennessee, Monroe County, Citico Creek, Cherokee National Forest. Citico Creek from the Cherokee National Forest boundary at upper Citico Bridge on Mountain Settlement Road (approximately creek mile 4.3) upstream to the confluence of Citico Creek with Barkcamp Branch (approximately creek mile 10.8).

Constituent elements of the critical habitat include the present good water quality in Citico Creek and run/pool areas with relatively silt-free pea-size gravel substrate containing scattered large flat rocks for breeding habitat. The species utilizes palm-size slab rocks for cover and relatively silt-free riffle areas during other times of the year. The area designated as critical habitat provides the smoky madtom with all of the necessary constituent elements for completion of its life cycle.

Note:

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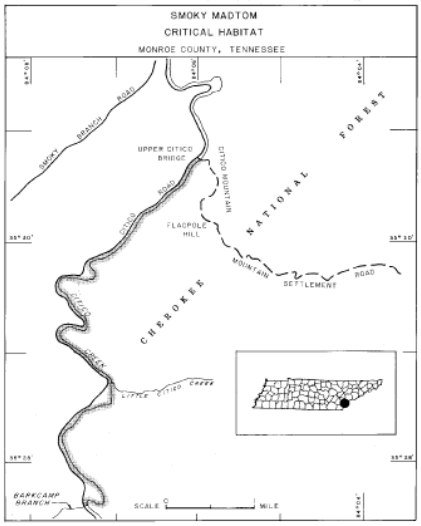

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Yellowfin Madtom (Noturus flavipinnis)

Tennessee. Claiborne and Hancock Counties. Powell River, main channel from backwaters of Norris Lake upstream to the Tennessee-Virginia State line.

Virginia. Lee, Scott, and Russell Counties. Powell River, main channel from the Virginia-Tennessee State line upstream through Lee County. Copper Creek, main channel from its junction with Clinch River upstream through Scott County and upstream in Russell County to Dickensonville.

Note:

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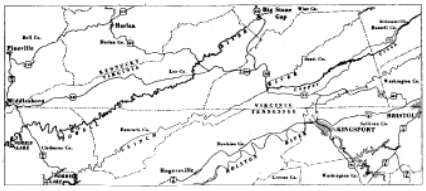

CRITICAL HABITAT FOR THE SLENDER CHUB

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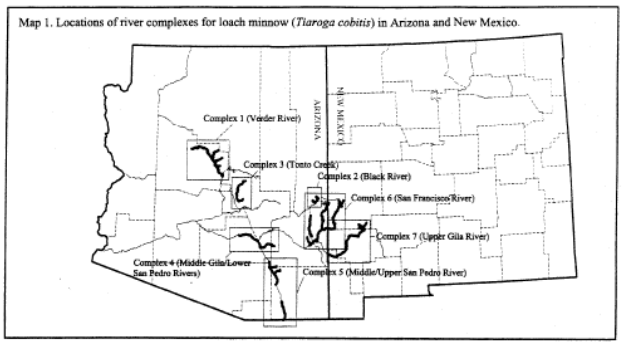
Loach Minnow (Tiaroga (=Rhinichthys) cobitis)

1. Critical habitat units are depicted for Apache, Cochise, Gila, Graham, Greenlee, Pima, Pinal, and Yavapai Counties, Arizona; and Catron and Grant Counties, New Mexico on the maps and as described below.

2. Critical habitat includes the stream channels within the identified stream reaches described below and areas within these reaches potentially inundated by high flow events. Where delineated, this is the 100-year floodplain of the designated waterways as defined by the U.S. Army Corps of Engineers. In areas where the 100-year floodplain has not been delineated or it is in dispute, the presence of alluvial soils (soils deposited by streams), obligate and facultative riparian vegetation (requiring and usually occurring in wetlands respectively), abandoned river channels, or known high water marks can be used to determine the extent of the floodplain. Within these areas, only lands which provide the primary constituent elements or which will be capable, with restoration, of providing them, are considered critical habitat. Existing human-constructed features and structures such as buildings, roads, etc., are not considered critical habitat.

3. Within these areas, the primary constituent elements include, but are not limited to, those habitat components that are essential for the primary biological needs of foraging, sheltering, dispersal, and reproduction. These elements include the following: (1) Permanent flowing, unpolluted water; (2) living areas for adult loach minnow with moderate to swift flow velocities in shallow water with gravel, cobble, and rubble substrates; (3) living areas for juvenile loach minnow with moderate to swift flow velocities in shallow water with sand, gravel, cobble, and rubble substrates; (4) living areas for larval loach minnow with slow to moderate velocities in shallow water with sand, gravel, and cobble substrates and abundant instream cover; (5) spawning areas with slow to swift flow velocities in shallow water with uncemented cobble and rubble substrate; (6) low amounts of fine sediment and substrate embeddedness; (7) riffle, run, and backwater components present in the aquatic habitat; (8) low to moderate stream gradient; (9) water temperatures in the approximate range of 1–30 °C (35–85 °F) with natural diurnal and seasonal variation; (10) abundant aquatic insect food base; (11) periodic natural flooding; (12) a natural, unregulated hydrograph, or if flows are modified or regulated, then a hydrograph that demonstrates a retained ability to support a native fish community; and (13) habitat devoid of nonnative aquatic species detrimental to loach minnow, or habitat in which detrimental nonnative species are at levels which allow persistence of loach minnow.

4. Arizona (Gila and Salt River Meridian (GSRM)) and New Mexico (New Mexico Principal Meridian (NMPM)): Areas of land and water as follows (physical features were identified using USGS 7.5' quadrangle maps; river reach distances were derived from digital data obtained from Arizona Land Resources Information System (ALRIS) and New Mexico Resource Geographic Information System (RGIS)):



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LOACH MINNOW (Tiaroga (=Rhinichthys) cobitis)

Complex 1. Yavapai, and Gila Counties, Arizona

a. Verde River for approximately 171.3 km (106.5 mi), extending from the confluence with Fossil Creek in GSRM, T.11N., R.6E., NE 1/4 Sec. 25 upstream to Sullivan Dam in GSRM, T.17N., R.2W., NW 1/4 Sec. 15, excluding lands on the Yavapai Apache Indian Reservation.

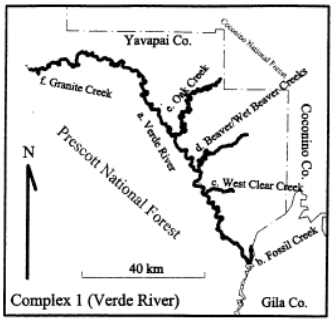
b. Fossil Creek for approximately 7.6 km (4.7 mi), extending from the confluence with the Verde River in GSRM, T.11N., R.6E., NE 1/4 Sec. 25 upstream to the confluence with an unnamed tributary from the northwest in GSRM, T.11 1/2N., R.7E., center Sec. 29.

c. West Clear Creek for approximately 11.6 km (7.2 mi), extending from the confluence with the Verde River in GSRM, T.13N., R.5E., center Sec. 21, upstream to the confluence with Black Mountain Canyon in GSRM, T.13N., R.6E., SE 1/4 Sec. 17.

d. Beaver Creek/Wet Beaver Creek for approximately 33.4 km (20.8mi), extending from the confluence with the Verde River in GSRM, T.14N., R.5E., SE 1/4 Sec. 30 upstream to the confluence with Casner Canyon in GSRM, T.15N., R.6E., NW 1/4 Sec. 23.

e. Oak Creek for approximately 54.4 km (33.8 mi), extending from the confluence with the Verde River in GSRM, T.15N., R.4E., SE 1/4 Sec. 20 upstream to the confluence with an unnamed tributary from the south in GSRM, T.17N., R.5E., SE 1/4, NE 1/4 Sec. 24.

f. Granite Creek for approximately 2.3 km (1.4 mi), extending from the confluence with the Verde River in GSRM, T.17N., R.2W., NE 1/4 Sec. 14 upstream to a spring in GSRM, T.17N., R.2W., SW 1/4, SW 1/4, Sec. 13.



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Complex 2. Apache and Greenlee Counties, Arizona

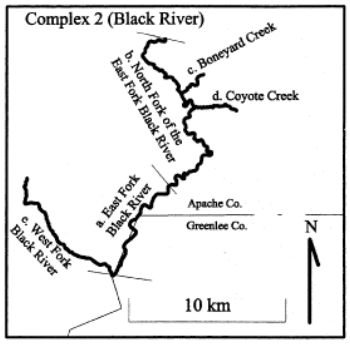
a. East Fork Black River for approximately 8.2 km (5.1 mi), extending from the confluence with the West Fork Black River in GSRM, T.4N., R.28E., SE 1/4 Sec. 11 upstream to the confluence with Deer Creek in GSRM, T.5N., R.29E., NW 1/4 Sec. 30.

b. North Fork of the East Fork Black River for approximately 18.0 km (11.2 mi), extending from the confluence of the East Fork Black River and Deer Creek in GSRM, T.5N., R.29E., NW 1/4 Sec. 30 upstream to the confluence with an unnamed tributary flowing from the east in GSRM, T.6N., R.29E., center Sec. 30.

c. Boneyard Creek for approximately 2.3 km (1.4 mi), extending from the confluence with the North Fork of the East Fork Black River in GSRM, T.5N, R.29E., SW 1/4 Sec. 5 upstream to the confluence with an unnamed tributary flowing from the east near Clabber City in GSRM, T.6N., R.29E., SE 1/4 SE 1/4 Sec. 32.

d. Coyote Creek for approximately 3.1 km (2.0 mi), extending from the confluence with the North Fork of the East Fork Black River in GSRM, T.5N., R.29E., NE 1/4 Sec. 8 upstream to the confluence with an unnamed tributary flowing from the south in GSRM, T.5N., R.19E., NW 1/4 Sec. 10.

e. West Fork Black River for approximately 10.3 km (6.4 mi), extending from the confluence with the East Fork Black River in GSRM, T.4N, R.28E., SE 1/4 Sec. 11 upstream to the confluence with Hay Creek in GSRM, T.5N., R.28E., SE 1/4, Sec. 19.



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Complex 3. Gila County, Arizona

a. Tonto Creek for approximately 70.3 km (43.7 mi), extending from the confluence with Greenback Creek in GSRM, T.5N., R.11E., NW 1/4 Sec. 8 upstream to the confluence with Haigler Creek in GSRM, T.10N., R.12E., NW 1/4, Sec. 14.

b. Greenback Creek for approximately 13.5 km (8.4 mi), extending from the confluence with Tonto Creek in GSRM, T.5N., R.11E., NW 1/4 Sec. 8 upstream to Lime Springs in GSRM, T.6N., R.12E., SW 1/4 Sec. 20.

c. Rye Creek for approximately 2.1 km (1.3 mi), extending from the confluence with Tonto Creek in GSRM, T.8N., R.10E., SW 1/4 Sec. 13 upstream to the confluence with Brady Canyon in GSRM, T.8N., R.10E., NE 1/4 Sec. 14.

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Complex 4. Graham and Pinal Counties, Arizona

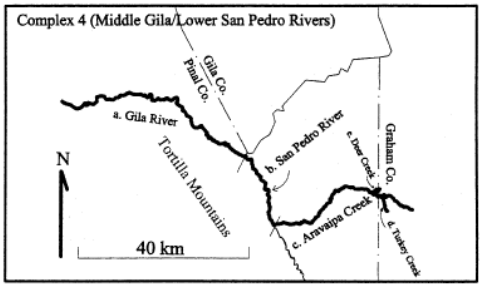
a. Gila River for approximately 62.8 km (39.0 mi), extending from Ashurst-Hayden Dam in GSRM, T.4S., R.11E., NW 1/4 Sec. 8 upstream to the confluence with the San Pedro River in GSRM, T.5S., R.15E., center Sec. 23.

b. San Pedro River for approximately 21.4 km (13.3 mi), extending from the confluence with the Gila River in GSRM, T.5S., R.15E., center Sec. 23 upstream to the confluence with Aravaipa Creek in GSRM, T.7S., R.16E., center Sec. 9.

c. Aravaipa Creek for approximately 45.3 km (28.1 mi), extending from the confluence with the San Pedro River in GSRM, T.7S., R.16E., center Sec. 9 upstream to the confluence with Stowe Gulch in GSRM, T.6S., R.19E., SE 1/4 of the NE 1/4 Sec. 35.

d. Turkey Creek for approximately 4.3 km (2.7 mi), extending from the confluence with Aravaipa Creek in GSRM, T.6S., R.19E., center Sec. 19 upstream to the confluence with Oak Grove Canyon in GSRM, T.6S., R.19E., SW 1/4 Sec. 32.

f. Deer Creek for approximately 3.6 km (2.3 mi), extending from the confluence with Aravaipa Creek in GSRM, T.6S., R.18E., SE 1/4 of the SE 1/4 Sec. 14 upstream to the boundary of the Aravaipa Wilderness at GSRM, T.6S., R.18E., east boundary Sec. 13.



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Complex 5. Cochise, Graham, and Pima Counties, Arizona

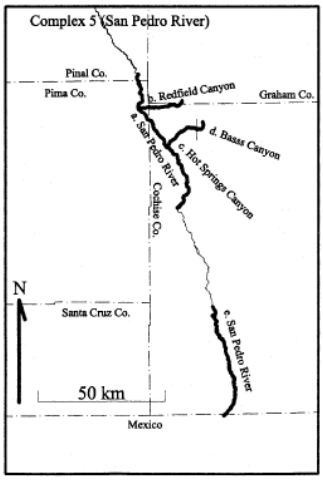
a. San Pedro River for approximately 73.6 km (45.8 mi), extending from the confluence with Alder Wash in GSRM, T.10S., R.18E., SW 1/4 Sec. 22 upstream to the confluence with Ash Creek in GSRM, T.16S., R.20E., SE 1/4 Sec. 6.

b. Redfield Canyon for approximately 22.3 km (13.9 mi), extending from the confluence with the San Pedro River in GSRM, T.11S., R.18E., SW 1/4 Sec. 34 upstream to the confluence with Sycamore Canyon in GSRM, T.11S., R.20E., NW 1/4 Sec. 28.

c. Hot Springs Canyon for approximately 19.1 km (11.8 mi), extending from the confluence with the San Pedro River in GSRM, T.13S., R.19E., west center Sec. 23 upstream to the confluence with Bass Canyon in GSRM, T.12S., R.20E., NE 1/4 Sec. 36.

d. Bass Canyon for approximately 5.1 km (3.2 mi), extending from the confluence with Hot Springs Canyon in GSRM, T.12S., R.20E., NE 1/4 Sec. 36 upstream to the confluence with Pine Canyon in GSRM, T.12S., R.21E., center Sec. 20.

e. San Pedro River for approximately 60.0 km (37.2 mi), extending from the confluence with the Babocomari River in the San Juan de las Boquillas y Nogales land grant upstream to the U.S. border with Mexico in GSRM, T.24S., R.22E., Sec. 19.



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Complex 6. Graham and Greenlee Counties, Arizona and Catron County, New Mexico

a. Gila River for approximately 36.3 km (22.6 mi), extending from the Brown Canal diversion at the head of the Safford Valley in GSRM, T.6S., R.28E., SE 1/4 Sec. 30 upstream to the confluence with Owl Canyon in GSRM, T.5S., R.30E., SW 1/4 Sec. 30.

b. Bonita Creek for approximately 23.5 km (14.6 mi), extending from the confluence with the Gila River in GSRM, T.6S., R.28E., SE 1/4 Sec. 21 upstream to the confluence with Martinez Wash in GSRM, T.4S., R.27E., SE 1/4 Sec. 27.

c. Eagle Creek for approximately 72.8 km (45.2 mi), extending from the Phelps-Dodge diversion dam in GSRM, T.4S., R.28E., NW 1/4 Sec. 23 upstream to the confluence of Dry Prong and East Eagle Creeks in GSRM, T.2N., R.28E., SW 1/4 Sec. 20, excluding lands on the San Carlos Apache Indian Reservation.

d. San Francisco River for approximately 203.3 km (126.3 mi), extending from the confluence with the Gila River in GSRM, T.5S., R.29E., SE 1/4 Sec. 21 upstream to the mouth of The Box canyon in NMPM, T.6S., R.19W., SW 1/4 of the NW 1/4 Sec. 2.

e. Tularosa River for approximately 30.0 km (18.6 mi), extending from the confluence with the San Francisco River in NMPM, T.7S., R.19W., SW 1/4 Sec. 23 upstream to NMPM, T.6S., R.18W, south boundary Sec. 1.

f. Negrito Creek for approximately 6.8 km (4.2 mi), extending from the confluence with the Tularosa River in NMPM, T.7S., R.18W., SW 1/4 of the NW 1/4 Sec. 19 upstream to the confluence with Cerco Canyon in NMPM, T.7S., R.18W., west boundary Sec. 22.

g. Whitewater Creek for approximately 1.8 km (1.2 mi), extending from the confluence with the San Francisco River in NMPM, T.11S., R.20W., SE 1/4 Sec. 27 upstream to the confluence with Little Whitewater Creek in NMPM, T.11S., R.20W., SE 1/4 Sec. 23.

h. Blue River for approximately 81.9 km (51.0 mi), extending from the confluence with the San Francisco River in GSRM, T.2S., R.31E., SE 1/4 Sec. 31 upstream to the confluence of Campbell and Dry Blue Creeks in NMPM, T.7S., R.21W., SE 1/4 Sec. 6.

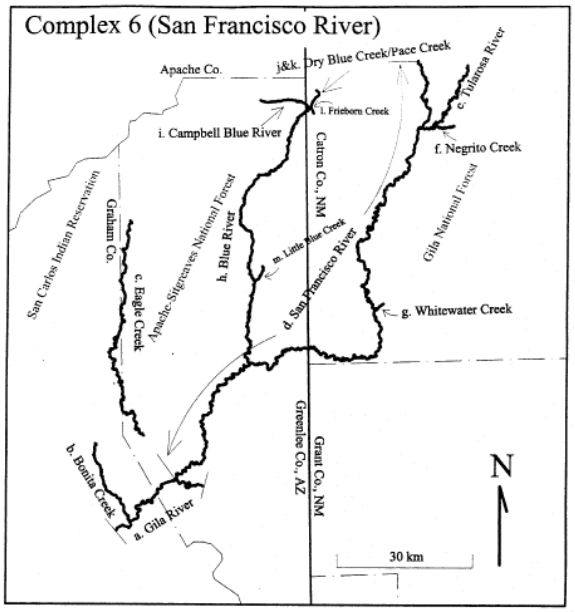
i. Campbell Blue Creek for approximately 13.1 km (8.2 mi), extending from the confluence with Dry Blue Creek in NMPM, T.7S., R.21W., SE 1/4 Sec. 6 upstream to the confluence with Coleman Creek in GSRM, T.4 1/2 N., R.31E., SW 1/4 of the NE 1/4 Sec. 32.

j. Dry Blue Creek for approximately 4.7 km (3.0 mi), extending from the confluence with Campbell Blue Creek in NMPM, T.7S., R.21W., SE 1/4 Sec. 6 upstream to the confluence with Pace Creek in NMPM, T.6S., R.21W., SW 1/4 Sec. 28.

k. Pace Creek for approximately 1.2 km (0.8 mi), extending from the confluence with Dry Blue Creek in NMPM, T.6S., R.21W., SW 1/4 Sec. 28 upstream to the barrier falls in NMPM, T.6S., R.21W., SW 1/4 Sec. 28.

l. Frieborn Creek for approximately 1.8 km (1.2 mi), extending from the confluence with Dry Blue Creek in NMPM, T.7S., R.21W., SW 1/4 NW 1/4 Sec. 5 upstream to the confluence with an unnamed tributary flowing from the south in NMPM, T.7S., R.21W., NE 1/4 SW 1/4 Sec. 8.

m. Little Blue Creek for approximately 4.5 km (2.8 mi), extending from the confluence with the Blue River in GSRM, T.1S., R.31E., center Sec. 5 upstream to the mouth of a box canyon in GSRM, T.1N., R.31E., NE 1/4 SE 1/4 Sec. 29.



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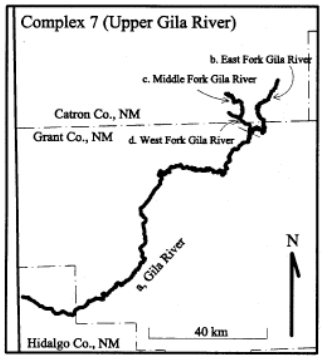
Complex 7. Grant and Catron Counties, New Mexico.

a. Gila River for approximately 164.4 km (102.2 mi), extending from the confluence with Moore Canyon in NMPM, T.18S., R.21W., SE 1/4 SW 1/4 Sec. 31 upstream to the confluence of the East and West Forks of the Gila River in NMPM, T.13S., R.13W., center Sec. 8.

b. East Fork Gila River for approximately 42.1 km (26.1 mi), extending from the confluence with the West Fork Gila River in NMPM, T.13S., R.13W., center Sec. 8 upstream to the confluence of Beaver and Taylor Creeks in NMPM, T.11S., R.12W., NE 1/4 Sec. 17.

c. Middle Fork Gila River for approximately 19.1 km (11.8 mi), extending from the confluence with the West Fork Gila River in NMPM, T.12S., R.14W., SW 1/4 Sec. 25 upstream to the confluence with Brothers West Canyon in NMPM, T.11S., R.14W., NE 1/4 Sec. 33.

d. West Fork Gila River for approximately 12.4 km (7.7 mi), extending from the confluence with the East Fork Gila River in NMPM, T.13S., R.13W., center Sec. 8 upstream to the confluence with EE Canyon in NMPM, T.12S., R.14W., east boundary of Sec. 21.



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Rio Grande Silvery Minnow (Hybognathus amarus)

(1) Designated critical habitat is depicted for Socorro, Valencia, Bernalillo, and Sandoval Counties, New Mexico, on the map and as described below.

(2) For each river reach, the upstream and downstream boundaries are described below. Critical habitat includes the stream channels within the identified river reaches and areas within these reaches included within the existing levees, or if no levees are present, then within a lateral distance of 300 ft (91.4 m) on each side of the river width at bankfull stage. Bankfull stage is the flow at which water begins to leave the channel and move into the floodplain. The bankfull stage is not defined by water, and can be determined by visual or physical indicators, including: The top of the highest depositional features (e.g., point bars), staining of rocks, exposed root hairs, and other features.

(3) Within these areas the primary constituent elements include, but are not limited to, those habitat components that are essential for the primary biological needs of foraging, sheltering, and reproduction. These elements include the following:

(i) A hydrologic regime that provides sufficient flowing water with low to moderate currents capable of forming and maintaining a diversity of aquatic habitats, such as, but not limited to the following: Backwaters (a body of water connected to the main channel, but with no appreciable flow), shallow side channels, pools (that portion of the river that is deep with relatively little velocity compared to the rest of the channel), eddies (a pool with water moving opposite to that in the river channel), and runs (flowing water in the river channel without obstructions) of varying depth and velocity—all of which are necessary for each of the particular silvery minnow life-history stages in appropriate seasons (e.g., the silvery minnow requires habitat with sufficient flows from early spring (March) to early summer (June) to trigger spawning, flows in the summer (June) and fall (October) that do not increase prolonged periods of low or no flow, and a relatively

constant winter flow (November through February));

(ii) The presence of eddies created by debris piles, pools, or backwaters, or other refuge habitat (e.g., connected oxbows or braided channels) within unimpounded stretches of flowing water of sufficient length (*i.e.*, river miles) that provide a variation of habitats with a wide range of depth and velocities;

(iii) Substrates of predominantly sand or silt; and

(iv) Water of sufficient quality to maintain natural, daily, and seasonally variable water temperatures in the approximate range of greater than 1 °C (35 °F) and less than 30 °C (85 °F) and reduce degraded conditions (e.g., decreased dissolved oxygen, increased pH).

(4) The Pueblo lands of Santo Domingo, Santa Ana, Sandia, and Isleta are not designated.

(5) Designated critical habitat is depicted on the following map for the middle Rio Grande, which includes the area from Cochiti Reservoir downstream to the utility line crossing the Rio Grande just east of the Bosque Well as demarcated on USGS Paraje Well 7.5 minute quadrangle (1980), with the Universal Transverse Mercator (UTM) coordinates of UTM Zone 13: 311474 E, 3719722 N (as referenced with the 1927 North American Datum (NAD27)), Sandoval, Bernalillo, Valencia, and Socorro Counties, New Mexico. The designation also includes the upper section of the tributary Jemez River from Jemez Canyon Dam to the upstream boundary of Santa Ana Pueblo, Sandoval County. The river reaches in the middle Rio Grande include:

(i) Jemez Canyon Reach—1 mi (1.6 km) of the Jemez River immediately downstream of Jemez Canyon Dam to the upstream boundary Santa Ana Pueblo;

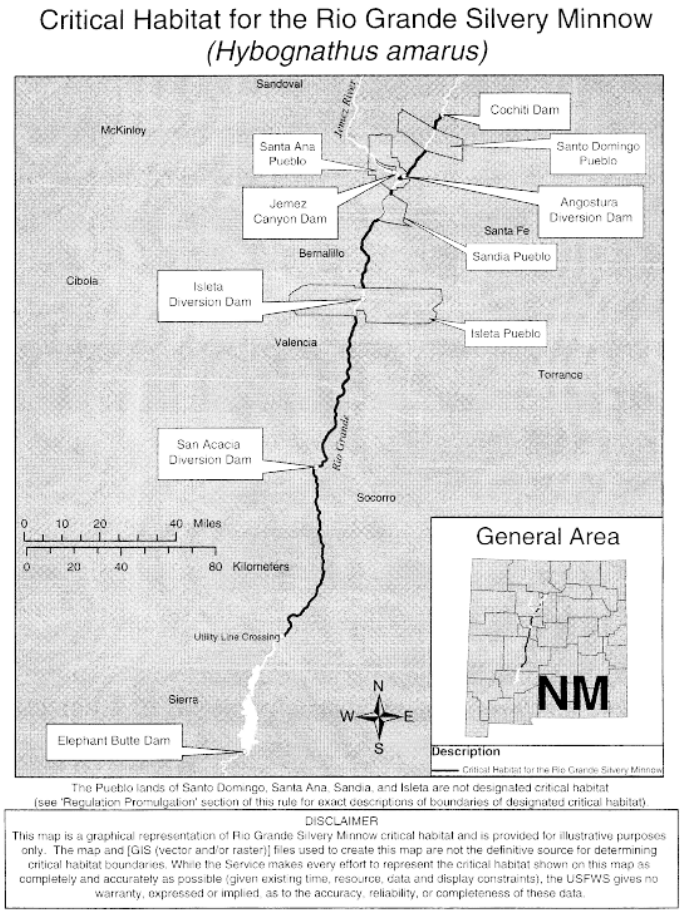
(ii) Cochiti Diversion Dam to Angostura Diversion Dam (Cochiti Reach)—21 mi (34 km) of river immediately downstream of Cochiti Reservoir to the Angostura Diversion Dam;

(iii) Angostura Diversion Dam to Isleta Diversion Dam (Angostura Reach)—38 mi (61 km) of river immediately downstream of the Angostura Diversion Dam to the Isleta Diversion Dam;

(iv) Isleta Diversion Dam to San Acacia Diversion Dam (Isleta Reach)—56 mi (90 km) of river immediately downstream of the Isleta Diversion Dam to the San Acacia Diversion Dam; and

(v) San Acacia Diversion Dam to the Elephant Butte Dam (San Acacia Reach)—92 mi (147 km) of river immediately downstream of the San Acacia Diversion Dam to the utility line crossing the Rio Grande just east of the Bosque Well demarcated on USGS Paraje Well 7.5 minute quadrangle (1980) with UTM coordinates of UTM Zone 13: 311474 E, 3719722 N.

(vi) Map Follows:



The Pueblo lands of Santo Domingo, Santa Ana, Sandia, and Isleta are not designated critical habitat
(see 'Regulation Promulgation' section of this rule for exact descriptions of boundaries of designated critical habitat).

DISCLAIMER

This map is a graphical representation of Rio Grande Silvery Minnow critical habitat and is provided for illustrative purposes only. The map and [GIS (vector and/or raster)] files used to create this map are not the definitive source for determining critical habitat boundaries. While the Service makes every effort to represent the critical habitat shown on this map as completely and accurately as possible (given existing time, resource, data and display constraints), the USFWS gives no warranty, expressed or implied, as to the accuracy, reliability, or completeness of these data.

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(6) This designation does not include the ephemeral or perennial irrigation canals and ditches outside of natural stream channels, including the low flow conveyance channel that is adjacent to a portion of the river reach within the middle Rio Grande (*i.e.*, downstream of the southern boundary of Bosque del Apache National Wildlife Refuge to the Elephant Butte Dam).

(7) Lands located within the exterior boundaries of the critical habitat designation (*i.e.*, within the existing levees, or if no levees are present, then within a lateral distance of 300 ft (91.4 m) on each side of the stream

width at bankfull discharge) that are not considered critical habitat and are therefore excluded by definition, include: Developed flood control facilities; existing paved roads; bridges; parking lots; dikes; levees; diversion structures; railroad tracks; railroad trestles; water diversion and irrigation canals outside of natural stream channels; the low flow conveyance channel; active gravel pits; cultivated agricultural land; and residential, commercial, and industrial developments.

Ash Meadows Amargosa Pupfish (Cyprinodon nevadensis mionectes)

Nevada, Nye County: Each of the following springs and outflows plus surrounding land areas for a distance of 50 meters (164 feet) from these springs and ouflows:

Fairbanks Spring and its outflow to the boundary between Sections 9 and 10, T17S, R50E.

Rogers Spring and its outflows to the boundary between Sections 15 and 16, T17S, R50E.

Longstreet Spring and its outflow to the boundary between Sections 15 and 22, T17S, R50E.

Three unnamed springs in the northwest corner of Section 23, T17S, R50E, and each of their outflows for a distance of 75 meters (246 feet) from the spring.

Crystal Pool and its outflow for a distance of 400 meters (1,312 feet) from the pool.

Bradford Springs in Section 11, T18S, R50E, and their outflows for a distance of 300 meters (984 feet) from the springs.

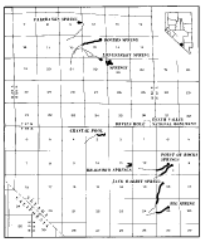
Jack Rabbit Spring and its outflow flowing southwest to the boundary between Section 24, T18S, R50E and Section 19, T18S, R51E.

Big Spring and its outflow to the boundary between Section 19, T18S, R51E and Section 24, T18S, R50E.

Point of Rocks Springs and their entire outflows within Section 7, T18S, R51E.

Note:

Map follows:



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Known constituent elements include warm-water springs and their outflows and surrounding land areas that provide vegetation for cover and habitat for insects and other invertebrates on which this species feeds.

Desert Pupfish (Cyprinodon macularius)

Arizona: Pima County. 1. *Quitobaquito Spring*, approximately 25 miles WNW Lukeville, Arizona in Organ Pipe Cactus National Monument, in T17S R8N; and a 100-foot riparian buffer zone around the spring.

Note:

Map follows:

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California: Imperial County.

1. *San Felipe Creek.* Approximately 8 1/2 stream miles and 100 feet on either side of San Felipe Creek or the stream channel commencing at the State Highway 86 bridge crossing (approximately 1/4 mile south of intersection of Hwy. 78 and Hwy. 86) upstream to the eastern boundary of Section 31, T12S; R10E; including those areas of the stream channel in: T12S; R11E; Section 17, 18, and 19; T12S; R10E; Section 22, 23, 24, 26, 27, 28, 29, and 32.

2. *Carrizo Wash.* Approximately 1 3/4 stream miles and 100 feet on either side of or the stream channel commencing at the confluence of Carrizo Wash with San Felipe Creek upstream to the southern boundary of N 1/2 Section 33; T12S; R10E; including those areas of the stream channel in T12S; R10E; Section 27, 28, and N 1/2 Section 33.

3. *Fish Creek Wash.* Approximately three-fourths of one stream mile and 100 feet on either side of the stream channel from the confluence of Fish Creek Wash with San Felipe Creek upstream to the southern boundary of N 1/2 Section 32; T12S; R10E; including those areas of the stream channel in T12S; R10E; Section 29 and N 1/2 Section 32.

Note:

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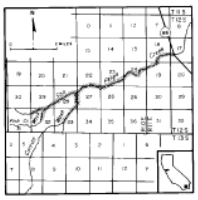

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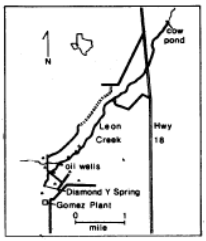
Constituent elements for all four areas designated as critical habitat include clean unpolluted water that is relatively free of exotic organisms, especially exotic fishes, in small slow-moving desert streams and spring pools with marshy backwater areas.

Leon Springs Pupfish (Cyprindon bovinus)

Texas, Pecos County. Diamond Y Spring and its outflow stream, Loen Creek; from the head of Diamond Y Spring downstream in Leon Creek to a point 1 mile northeast of the Texas Highway 18 crossing, approximately 10 miles north of Fort Stockton.

Note:

Map follows:



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Arkansas River Shiner (Notropis girardi)

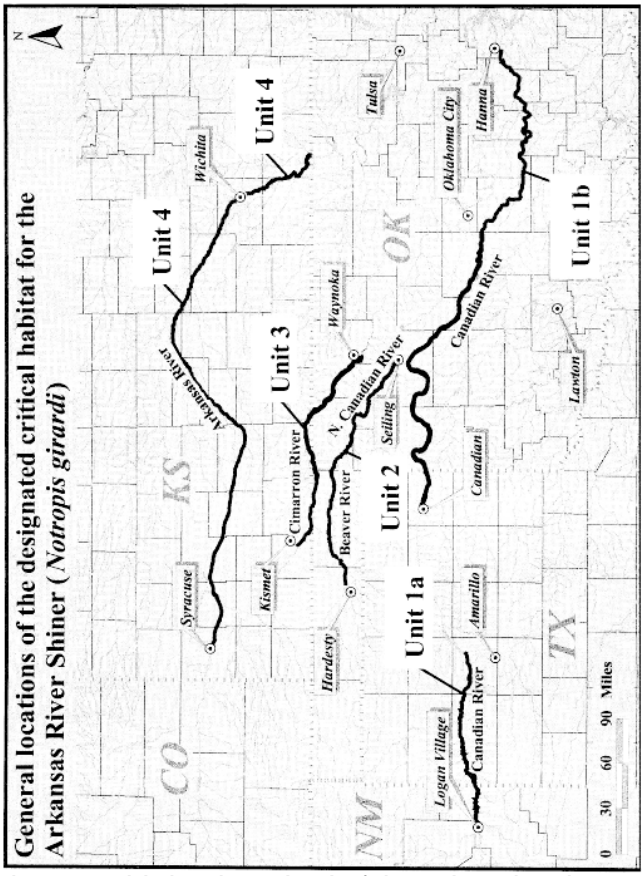
1. Critical habitat is depicted for Barton, Clark, Comanche, Cowley, Edwards, Finney, Ford, Gray, Hamilton, Kearny, Kiowa, Meade, Pawnee, Reno, Rice, Sedgwick, Seward, and Sumner Counties, Kansas; Quay County, New Mexico; Beaver, Blaine, Caddo, Canadian, Cleveland, Custer, Dewey, Ellis, Grady, Harper, Hughes, Major, McClain, McIntosh, Pittsburg, Pontotoc, Pottawatomie, Roger Mills, Seminole, Texas, Woods, and Woodward Counties, Oklahoma; and Hemphill, Oldham, and Potter Counties, Texas, on the maps and as described below.

2. Critical habitat includes the stream channels within the identified stream reaches indicated on the maps below, and includes a lateral distance of 91.4 m (300 ft) on each side of the stream width at bankfull discharge. Bankfull discharge is the flow at which water begins to leave the channel and move into the floodplain (Rosgen 1996) and generally occurs with a frequency of every 1 to 2 years (Leopold *et al.* 1992).

3. Within these areas, the primary constituent elements include, but are not limited to, those habitat components that are essential for the primary biological needs of foraging, sheltering, and reproduction. These elements include the following—(1) a natural, unregulated hydrologic regime complete with episodes of flood and drought or, if flows are modified or regulated, a hydrologic regime characterized by the duration, magnitude, and frequency of flow events capable of forming and maintaining channel and instream habitat necessary for particular Arkansas River shiner life-stages in appropriate seasons; (2) a complex, braided channel with pool, riffle, run, and backwater components that provide a suitable variety of depths and current velocities in appropriate seasons; (3) a suitable unimpounded stretch of flowing water of sufficient length to allow hatching and development of the larvae; (4) substrates of predominantly sand, with some patches of gravel and cobble; (5) water quality characterized by low concentrations of contaminants and natural, daily and seasonally variable temperature, turbidity, conductivity, dissolved oxygen, and pH; (6) abundant terrestrial, semiaquatic, and aquatic invertebrate food base; and (7) few or no predatory or competitive nonnative species present.

4. Existing human-constructed features and structures within the critical habitat boundary, such as buildings, powerlines, roads, railroads, urban development, and other features not containing any primary constituent elements, are not considered critical habitat and are not included in the designation. Tribal lands located within the critical habitat boundary of Unit 1b are not considered critical habitat.

5. Kansas (Sixth Principal Meridian (SPM)), New Mexico (New Mexico Principal Meridian (NMPM)), Oklahoma (Cimarron Meridian (CM) and Indian Meridian (IM)), and Texas (geographic coordinates): Areas of land and water as follows (physical features were identified using USGS 7.5' quadrangle maps; river reach distances were derived from digital data obtained from USGS National Atlas data set for river reaches, roads, and county boundaries.



Use Constraints:

This map is intended to be used as a guide to identify the general areas where Arkansas River Shiner critical habitat has been designated. The precise legal definition of critical habitat should be obtained from the text of the Final Designation of Critical Habitat for the Arkansas River Shiner.

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ARKANSAS RIVER SHINER (Notropis girardi)

Reach 1. Canadian/South Canadian River, New Mexico, Texas, and Oklahoma.

a. Canadian River—approximately 215 km (134 mi) from U.S. Highway 54 bridge near Logan, Quay County, New Mexico (NMPM, T.13N., R.33E., NW 1/4 Sec. 14) downstream to the confluence with Coetas Creek, Potter County, Texas (35°27'53" N, 101°52'46" W).

b. Canadian River—approximately 593 km (368 mi), extending from U.S. Highway 60/83 bridge near Canadian, Hemphill County, Texas (35°56'02" N, 100°22'00" W) downstream to Indian Nation Turnpike bridge northwest of McAlester, Oklahoma (IM T.8N., R.13E., SE 1/4 SW 1/4 SE 1/4 Sec. 23).

Reach 2. Beaver/North Canadian River, Texas, Beaver, Harper, Ellis, Woodward, and Major Counties, Oklahoma—259 km (161 mi) of river extending from Optima Dam in Texas County, Oklahoma (CM,T.2N., R.18E., NW 1/4 SE 1/4 SE 1/4 Sec. 5) downstream to U.S. Highway 60/281 bridge in Major County, Oklahoma (IM, T.20N., R.16W., west boundary Sec. 28).

Reach 3. Cimarron River, Seward, Meade, Clark and Comanche Counties, Kansas and Beaver, Harper, Woods, and Woodward, Counties, Oklahoma—215 km (134 mi) of river extending from U.S. Highway 54 bridge in Seward County, Kansas (SPM, T. 33 S., R. 32 W., Sec. 25) downstream to U.S. Highway 281 bridge in Woods County, Oklahoma (IM, T.24N., R.16W., Sec. 35).

Reach 4. Arkansas River, Hamilton, Kearny, Finney, Gray, Ford, Edwards, Kiowa, Pawnee, Barton, Rice, Reno, Sedgwick, Sumner, and Cowley Counties, Kansas—564 km (351 mi) of river extending from Kansas State Highway 27 bridge in Hamilton County, Kansas (SPM, T. 24 S., R. 40 W., Sec. 18) downstream to KS/OK State line in Cowley County, Kansas (SPM, T.35S., R.5E., southern boundary Sec. 18).

Beautiful Shiner (Notropis formosus)

Arizona, Cochise County. All aquatic habitats of San Bernardino NWR in S 1/2 Sec. 11; Sec. 14; S 1/2 and NE 1/4 Sec. 15; T24S, R30E. Known constituent elements include small permanent streams with riffles, or intermittent creeks with pools and riffles in the Rio Yaqui drainage with clean unpolluted water. These waters should be free of introduced exotic fishes.

Note:

Map follows:

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Cape Fear Shiner (Notropis mekistocholas)

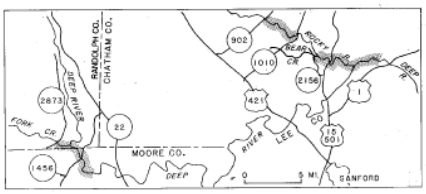
(1) *North Carolina.* Chatham County. Approximately 4.1 river miles of the Rocky River from North Carolina State Highway 902 Bridge downstream to Chatham County Road 1010 Bridge;

(2) *North Carolina.* Chatham and Lee Counties. Approximately 0.5 river mile of Bear Creek, from Chatham County Road 2156 Bridge downstream to the Rocky River, then downstream in the Rocky River (approximately 4.2 river miles) to the Deep River, then downstream in the Deep River (approximately 2.6 river miles) to a point 0.3 river mile below the Moncure, North Carolina, U.S. Geological Survey Gaging Station; and

(3) *North Carolina.* Randolph and Moore Counties. Approximately 1.5 river miles of Fork Creek, from a point 0.1 river mile upstream of Randolph County Road 2873 Bridge downstream to the Deep River then downstream approximately 4.1 river miles of the Deep River in Randolph and Moore Counties, North Carolina, to a point 2.5 river miles below Moore County Road 1456 Bridge.

Note:

Map follows:



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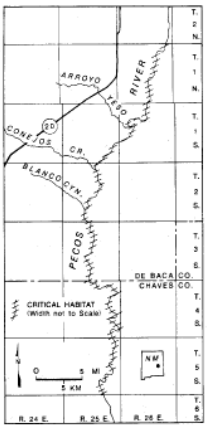
Pecos Bluntnose Shiner (Notropis simus pecosensis).

1. New Mexico: De Baca and Chaves Counties. Pecos River from point at the north boundary of NE 1/4 Sec. 2; T1N; R26E (approximately 10 mi. (16 km.) south of Fort Sumner) extending downstream approximately 64 mi. (103 km.) to a point at the south boundary SW 1/4 Sec. 35; T5S; R25E.

Note:

Map follows:



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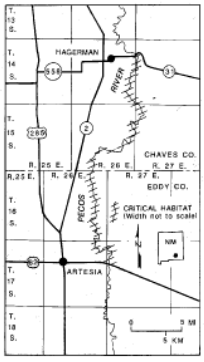
2. New Mexico. Chaves and Eddy Counties. Pecos River from the west boundary NW 1/4 Sec. 7; T14S; R27E, extending downstream approximately 37 mi. (60 km.) to the NW 1/4 Sec. 18; T17S; R27E (to the U. S. highway 82 bridge near Artesia).

Note:

Map follows:



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Constituent elements include clean, permanent water; a main river channel habitat with sandy substrate; and a low velocity flow.

Topeka Shiner (Notropis topeka)

(1) Critical habitat is depicted for Calhoun, Carroll, Dallas, Greene, Hamilton, Lyon, Osceola, Sac, Webster, and Wright Counties, Iowa; Lincoln, Murray, Nobles, Pipestone, and Rock Counties, Minnesota; and Madison County, Nebraska, on the maps and as described below.

(2) Critical habitat includes all stream channels up to the bankfull discharge elevation. Additionally, in Iowa and Minnesota, the off-channel, side-channel, and oxbow pools at elevations at or below the bankfull discharge elevation. Bankfull discharge is the flow at which water begins to leave the channel and move into the floodplain and generally occurs with a frequency of every 1 to 2 years.

(3) The primary constituent elements of critical habitat for the Topeka shiner consist of:

(i) Streams most often with permanent flow, but that can become intermittent during dry periods;

(ii) Side-channel pools and oxbows either seasonally connected to a stream or maintained by groundwater inputs, at a surface elevation equal to or lower than the bank-full discharge stream elevation. The bankfull discharge is the flow at which water begins leaving the channel and flowing into the floodplain; this level is generally attained every 1 to 2 years. Bankfull discharge, while a function of the size of the stream, is a fairly constant feature related to the formation, maintenance, and dimensions of the stream channel;

(iii) Streams and side-channel pools with water quality necessary for unimpaired behavior, growth, and viability of all life stages. (The water quality components include—temperature, turbidity, conductivity, salinity, dissolved oxygen, pH, chemical contaminants, and other chemical characteristics.);

(iv) Living and spawning areas for adult Topeka shiner with pools or runs with water velocities less than 0.5 meters/second (approx. 20 inches/second) and depths ranging from 0.1–2.0 meters (approx. 4–80 inches);

(v) Living areas for juvenile Topeka shiner with water velocities less than 0.5 meters/second (approx. 20 inches/second) with depths less than 0.25 meters (approx. 10 inches) and moderate amounts of instream aquatic cover, such as woody debris, overhanging terrestrial vegetation, and aquatic plants;

(vi) Sand, gravel, cobble, and silt substrates with amounts of fine sediment and substrate embeddedness that allow for nest building and maintenance of nests and eggs by native *Lepomis* sunfishes (green sunfish, orangespotted sunfish, longear sunfish) and Topeka shiner as necessary for reproduction, unimpaired behavior, growth, and viability of all life stages;

(vii) An adequate terrestrial, semiaquatic, and aquatic invertebrate food base that allows for unimpaired growth, reproduction, and survival of all life stages;

(viii) A hydrologic regime capable of forming, maintaining, or restoring the flow periodicity, channel morphology, fish community composition, off-channel habitats, and habitat components described in the other primary constituent elements; and

(ix) Few or no nonnative predatory or nonnative competitive species present.

Critical Habitat Map Units

(4) Critical habitat was identified using the Fifth Principal Meridian in Iowa and Minnesota; the Sixth Principal Meridian in Nebraska; U.S. Geological Survey 30- × 60-minute (1:100,000) quadrangle maps; the National Hydrography Dataset (1:100,000) for hydrology; and Digital Line Graph (1:2,000,000) for county and State boundaries.

(5) Unit 1: North Raccoon River Watershed—Calhoun, Carroll, Dallas, Greene, Sac and Webster Counties, Iowa.

(i) Reach 1a. Indian Creek from its confluence with the North Raccoon River (T87N, R35W, Sec. 24), upstream through T87N, R35W, Sec. 29.

(ii) Reach 1b. Tributary to Indian Creek (Ditch 57), from their confluence (T87N, R35W, Sec. 23), upstream to the confluence with the outlet creek from Black Hawk Lake (T86N, R36W, Sec. 1).

(iii) Reach 1c. Outlet Creek from Black Hawk Lake from its confluence with Ditch 57 (T86N, R36W, Sec. 1), upstream to lake outlet (T87N, R35W, Sec. 35).

(iv) Reach 2a. Camp Creek from its confluence with the North Raccoon River (T86N, R34W, Sec. 7), upstream through T87N, R34W, Sec. 8.

(v) Reach 2b. West Fork Camp Creek from its confluence with Camp Creek (T87N, R34W, Sec. 8), upstream through T88N, R34W, Sec. 32.

(vi) Reach 3. Prairie Creek from its confluence with the North Raccoon River (T86N, R34W, Sec. 16), upstream through T87N, R34W, Sec. 35.

(vii) Reach 4. Lake Creek from its confluence with the North Raccoon River (T86N, R34W, Sec. 23), upstream through T87N, R33W, Sec. 25.

(viii) Reach 5. Purgatory Creek from its confluence with the North Raccoon River (T84N, R33W, Sec. 11), upstream through T86N, R32W, Sec. 17.

(ix) Reach 6a. Cedar Creek from its confluence with the North Raccoon River (T85N, R32W, Sec. 33), upstream to the confluence of West Cedar Creek and East Cedar Creek (T87N, R31W, Sec. 31).

(x) Reach 6b. West Cedar Creek from its confluence with East Cedar Creek (T87N, R31W, Sec. 31), upstream through T87N, R31W, Sec. 18.

(xi) Reach 6c. East Cedar Creek from its confluence with West Cedar Creek (T87N, R31W, Sec. 31), upstream through T87N, R31W, Sec. 9.

(xii) Reach 7. Short Creek from its confluence with the North Raccoon River (T84N, R31W, Sec. 33), upstream through T84N, R31W, Sec. 28.

(xiii) Reach 8. Hardin Creek from its confluence with the North Raccoon River (T83N, R30W, Sec. 23), upstream through T85N, R31W, Sec. 27.

(xiv) Reach 9a. Buttrick Creek from its confluence with the North Raccoon River (T83N, R30W, Sec. 26), upstream to the confluence of West Buttrick Creek and East Buttrick Creek (T84N, R30W, Sec. 25).

(xv) Reach 9b. West Buttrick Creek, from its confluence with East Buttrick Creek (T84N, R30W, Sec. 25), upstream through T86N, R30W, Sec. 3.

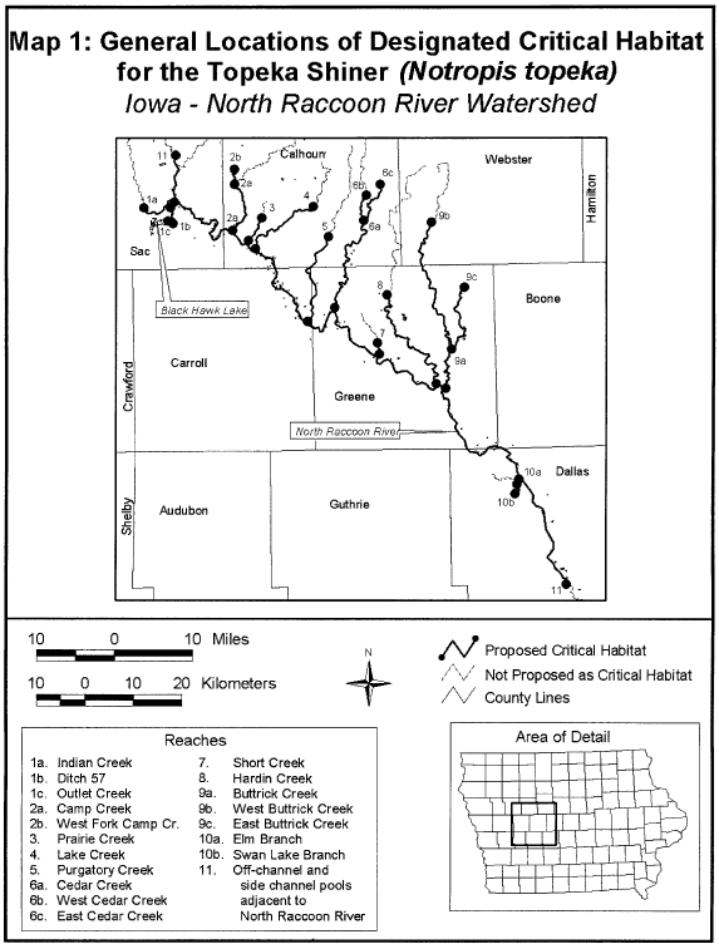
(xvi) Reach 9c. East Buttrick Creek, from its confluence with West Buttrick Creek (T84N, R30W, Sec. 25), upstream through T85N, R29W, Sec. 20.

(xvii) Reach 10a. Elm Branch from its confluence with the North Raccoon River (T81N, R28W, Sec. 28), upstream to its confluence with Swan Lake Branch T81N, R28W, Sec. 28.

(xviii) Reach 10b. Swan Lake Branch from its confluence with Elm Branch (T81N, R28W, Sec. 28), upstream through T80N, R28W, Sec. 4.

(xix) Reach 11. Off-channel and side-channel pools (that meet the previously described criteria) adjacent to the North Raccoon River from U.S. Highway 6 (T79N, R27W, Sec. 32), upstream to U.S. Highway 20 (T88N, R36W, Sec. 24).

(6) *Note:* Unit 1 (Map 1) follows.



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(7) Unit 2: Boone River Watershed—Wright and Hamilton Counties, Iowa.

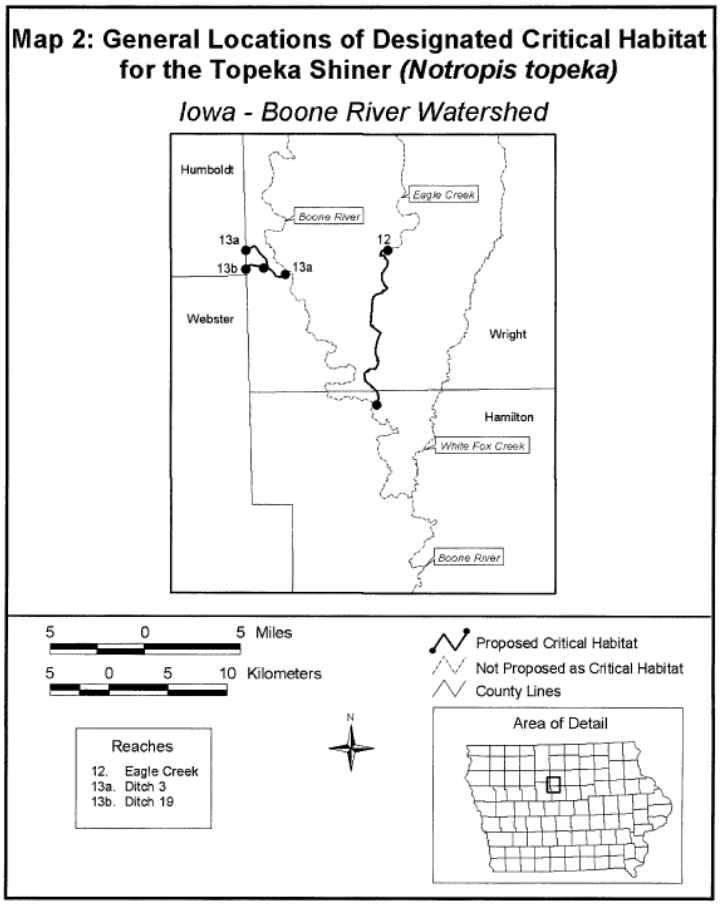
(i) Reach 12. Eagle Creek from its confluence with the Boone River (T89N, R25W, Sec. 6), upstream through T91N, R25W, Sec. 30.

Ditch 3 and Ditch 19 Complex

(ii) Reach 13a. Ditch 3 from its confluence with the Boone River (T91N, R26W, Sec. 32), upstream through T91N, R26W, Sec. 30.

(iii) Reach 13b. Ditch 19 from its confluence with Ditch 3 (T91N, R26W, Sec. 31), upstream through T91N, R26W, Sec. 31.

(8) *Note:* Unit 2 (Map 2) follows.



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(9) Unit 3: Rock River Watershed—Lyon and Osceola Counties, Iowa.

Rock River Complex

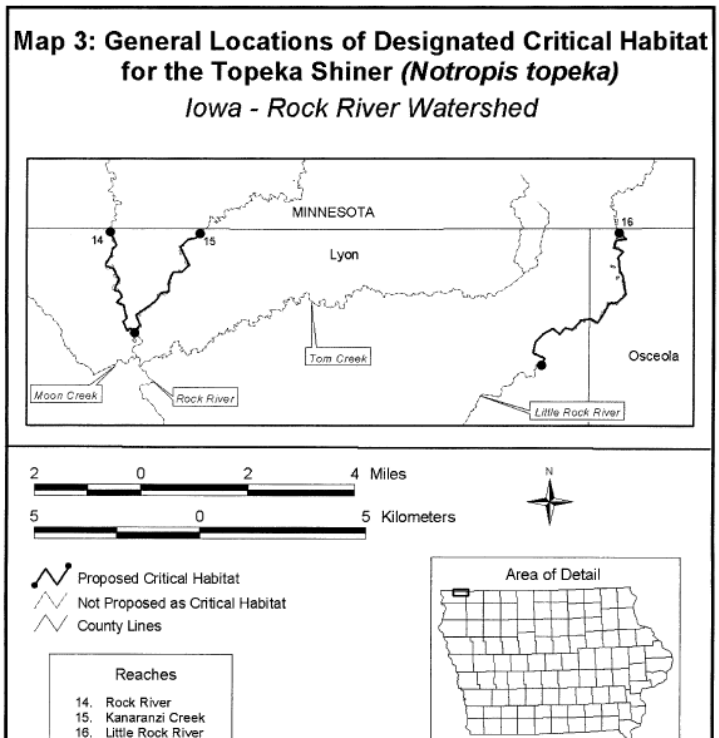
(i) Reach 14. Rock River from its confluence with Kanaranzi Creek (T100N, R45W, Sec. 28), upstream to the Iowa/Minnesota State border (T100N, R45W, Sec. 8).

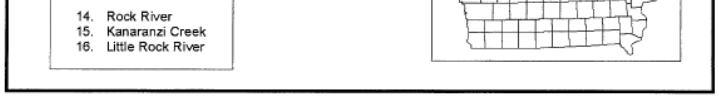
(ii) Reach 15. Kanaranzi Creek from its confluence with the Rock River (T100N, R45W, Sec. 28), upstream to the Iowa/Minnesota State border (T100N, R45W, Sec. 11).

Little Rock River Complex

(iii) Reach 16. Little Rock River from State Highway 9 (T100N, R43W, Sec. 34), upstream to the Iowa/Minnesota State border (T100N, R42W, Sec. 7).

(10) *Note:* Unit 3 (Map 3) follows.





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(11) Unit 4: Big Sioux River Watershed—Lincoln, Pipestone and Rock, Counties, Minnesota; and Rock River Watershed—Murray, Nobles, Pipestone and Rock Counties, Minnesota.

Medary Creek Complex

(i) Reach 1a. Medary Creek from the Minnesota/South Dakota State border (T109N, R47W, Sec. 13), upstream through T110N, R46W, Sec. 21.

(ii) Reach 1b. Unnamed tributary to Medary Creek, from their confluence (T109N, R46W, Sec. 18), upstream through T110N, R46W, Sec. 30.

Flandreau Creek Complex

(iii) Reach 2a. Flandreau Creek from the Minnesota/South Dakota State border (T107N, R47W, Sec. 14), upstream through T109N, R45W, Sec. 31.

(iv) Reach 2b. Unnamed tributary to Flandreau Creek, from their confluence (T108N, R46W, Sec. 11), upstream through T108N, R45W, Sec. 6.

(v) Reach 2c. East Branch Flandreau Creek from its confluence with Flandreau Creek (T108N, R46W, Sec. 14), upstream through T108N, R45W, Sec. 4.

(vi) Reach 2d. Willow Creek from its confluence with Flandreau Creek (T107N, R46W, Sec. 6), upstream through T108N, R46W, Sec. 3.

Split Rock/Pipestone/Beaver Creek Complex

(vii) Reach 3a. Pipestone Creek from the Minnesota/South Dakota State border (T106N, R47W, Sec. 23), upstream through T106N, R46W, Sec. 1.

(viii) Reach 3b. Unnamed tributary to Pipestone Creek, from their confluence (T106N, R47W, Sec. 24), upstream through T106N, R46W, Sec. 19.

(ix) Reach 3c. Unnamed tributary to Pipestone Creek, from the Minnesota/South Dakota State border (T105N, R47W, Sec. 2), upstream through T105N, R46W, Sec. 1.

(x) Reach 3d. North Branch Pipestone Creek from its confluence with Pipestone Creek (T106N, R46W, Sec. 5), upstream through T107N, R45W, Sec. 4.

(xi) Reach 3e. Unnamed tributary to North Branch Pipestone Creek, from their confluence (T107N, R45W, Sec. 4), upstream through T108N, R45W, Sec. 23.

(xii) Reach 3f. Split Rock Creek from the Minnesota/South Dakota State border (T103N, R47W, Sec. 2), upstream to Split Rock Lake Outlet (T105N, R46W, Sec. 22).

(xiii) Reach 3g. Unnamed tributary to Split Rock Creek from the Minnesota/South Dakota State border (T103N, R47W, Sec. 23), upstream through T103N, R46W, Sec. 29.

(xiv) Reach 3h. Unnamed tributary to Split Rock Creek, from their confluence (T103N, R47W, Sec. 2), upstream through T103N, R46W, Sec. 8.

(xv) Reach 3i. Unnamed tributary to Split Rock Creek, from their confluence (T104N, R47W, Sec. 25), upstream through T104N, R46W, Sec. 19.

(xvi) Reach 3j. Pipestone Creek from its confluence with Split Rock Creek (T104N, R47W, Sec. 22), upstream to the Minnesota/South Dakota State border T104N, R47W, Sec. 23.

(xvii) Reach 3k. Unnamed tributary to Split Rock Creek, from their confluence (T104N, R46W, Sec. 6), upstream through T105N, R46W, Sec. 36.

(xviii) Reach 3l. Split Rock Creek from the headwater of Split Rock Lake (T105N, R46W, Sec. 15), upstream through T106N, R46W, Sec. 35.

(xix) Reach 3m. Unnamed tributary to Split Rock Creek, from their confluence (T105N, R46W, Sec. 3), upstream through T105N, R46W, Sec. 2.

(xx) Reach 3n. Beaver Creek from the Minnesota/South Dakota State border (T102N, R47W, Sec. 34), upstream through T104N, R45W, Sec. 20.

(xxi) Reach 3o. Springwater Creek from its confluence with Beaver Creek (T102N, R47W, Sec. 34), upstream through T102N, R46W, Sec. 6.

(xxii) Reach 3p. Little Beaver Creek from its confluence with Beaver Creek (T102N, R46W, Sec. 12), upstream through T103N, R45W, Sec. 9.

(xxiii) Reach 3q. Unnamed tributary to Beaver Creek, from their confluence (T102N, R46W, Sec. 1), upstream through T103N, R46W, Sec. 35.

(xxiv) Reach 3r. Unnamed tributary to Beaver Creek, from their confluence (T103N, R45W, Sec. 18), upstream through T104N, R46W, Sec. 36.

Rock River Complex

(xxv) Reach 4a. Rock River from the Minnesota/Iowa State border (T101N, R45W, Sec. 36), upstream through T107N, R44W, Sec. 7.

(xxvi) Reach 4b. Kanaranzi Creek from the Minnesota/Iowa State border (T101N, R44W, Sec. 33), upstream

through T103N, R42W, Sec. 7).

(xxvii) Reach 4c. Norwegian Creek from its confluence with Kanaranzi Creek (T101N, R44W, Sec. 25), upstream through T101N, R43W, Sec. 21.

(xxviii) Reach 4d. Unnamed tributary to Norwegian Creek, from their confluence (T101N, R44W, Sec. 20), upstream through T101N, R44W, Sec. 16.

(xxix) Reach 4e. East Branch Kanaranzi Creek from its confluence with Kanaranzi Creek (T102N, R42W, Sec. 5), upstream through T102N, R41W, Sec. 5.

(xxx) Reach 4f. Unnamed tributary to East Branch Kanaranzi Creek, from their confluence (T102N, R42W, Sec. 9), upstream through T102N, R42W, Sec. 22.

(xxxi) Reach 4g. Unnamed tributary to East Branch Kanaranzi Creek, from their confluence (T102N, R42W, Sec. 5), upstream through T102N, R42W, Sec. 5.

(xxxii) Reach 4h. Unnamed tributary to Kanaranzi Creek, from their confluence (T102N, R43W, Sec. 31), upstream through T102N, R43W, Sec. 27.

(xxxiii) Reach 4i. Ash Creek from its confluence with the Rock River (T101N, R45W, Sec. 24), upstream through T101N, R45W, Sec. 14.

(xxxiv) Reach 4j. Elk Creek from its confluence with the Rock River (T102N, R45W, Sec. 36), upstream through T103N, R43W, Sec. 22.

(xxxv) Reach 4k. Unnamed tributary to Elk Creek, from their confluence (T102N, R44W, Sec. 16), upstream through T102N, R44W, Sec. 9.

(xxxvi) Reach 4l. Champepadan Creek from its confluence with the Rock River (T103N, R44W, Sec. 29), upstream through T104N, R43W, Sec. 14.

(xxxvii) Reach 4m. Unnamed tributary to Champepadan Creek, from their confluence (T104N, R43W, Sec. 14), upstream through T104N, R43W, Sec. 13.

(xxxviii) Reach 4n. Unnamed tributary to Champepadan Creek, from their confluence (T103N, R44W, Sec. 23), upstream through T103N, R44W, Sec. 24.

(xxxix) Reach 4o. Unnamed tributary to Champepadan Creek, from their confluence (T103N, R44W, Sec. 23), upstream through T103N, R44W, Sec. 12.

(xl) Reach 4p. Unnamed tributary to the Rock River, from their confluence (T103N, R44W, Sec. 17), upstream through T104N, R44W, Sec. 26.

(xli) Reach 4q. Mound Creek from its confluence with the Rock River (T103N, R44W, Sec. 30), upstream through T104N, R45W, Sec. 35.

(xlii) Reach 4r. Unnamed tributary to the Rock River, from their confluence (T103N, R44W, Sec. 8), upstream through T104N, R45W, Sec. 33.

(xliii) Reach 4s. Unnamed tributary to the Rock River, from their confluence (T104N, R44W, Sec. 28), upstream through T104N, R44W, Sec. 11.

(xliv) Reach 4t. Unnamed tributary to the Rock River, from their confluence (T104N, R44W, Sec. 16), upstream through T104N, R44W, Sec. 10.

(xlv) Reach 4u. Poplar Creek from its confluence with the Rock River (T104N, R44W, Sec. 5), upstream through T105N, R45W, Sec. 32.

(xlvi) Reach 4v. Unnamed tributary to Poplar Creek, from their confluence (T105N, R45W, Sec. 27), upstream through T105N, R45W, Sec. 9.

(xlvii) Reach 4w. Chanarambie Creek from its confluence with the Rock River (T105N, R44W, Sec. 33), upstream through T105N, R43W, Sec. 8.

(xlviii) Reach 4x. North Branch Chanarambie Creek from its confluence with Chanarambie Creek (T105N, R43W, Sec. 8), upstream through T106N, R43W, Sec. 18.

(xlix) Reach 4y. Unnamed tributary to the Rock River, from their confluence (T105N, R44W, Sec. 8), upstream through T106N, R45W, Sec. 36.

(l) Reach 4z. Unnamed tributary to the Rock River, from their confluence (T106N, R44W, Sec. 33), upstream through T106N, R44W, Sec. 23.

(li) Reach 4aa. East Branch Rock River from its confluence with the Rock River (T106N, R44W, Sec. 18), upstream through T107N, R44W, Sec. 27.

(lii) Reach 4bb. Unnamed tributary to East Branch Rock River, from their confluence (T107N, R44W, Sec. 34), upstream through T107N, R44W, Sec. 35.

Little Rock River Complex

(liii) Reach 5a. Little Rock River from the Minnesota/Iowa State border (T101N, R42W, Sec. 35), upstream through T102N, R41W, Sec. 34.

(liv) Reach 5b. Little Rock Creek from its confluence with the Little Rock River (T101N, R42W, Sec. 26), upstream through T102N, R42W, Sec. 34.

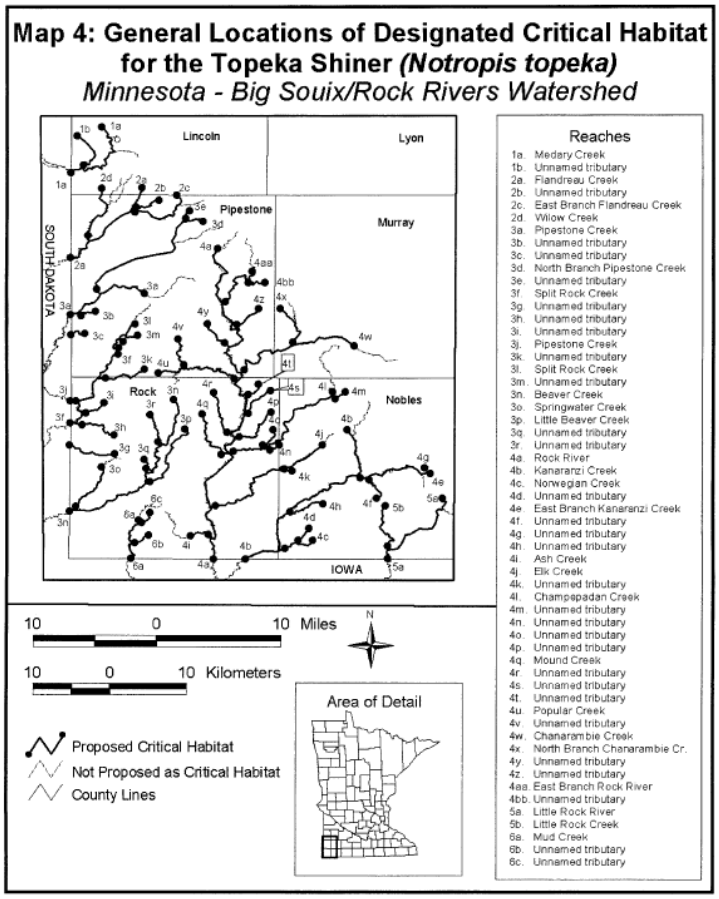
Mud Creek Complex

(lv) Reach 6a. Mud Creek from the Minnesota/Iowa State border (T101N, R46W, Sec. 34), upstream thru T101N, R46W, Sec. 11.

(lvi) Reach 6b. Unnamed tributary to Mud Creek, from their confluence (T101N, R46W, Sec. 22), upstream through T101N, R46W, Sec. 24.

(lvii) Reach 6c. Unnamed tributary to Mud Creek, from their confluence (T101N, R46W, Sec. 11), upstream through T101N, R46W, Sec. 1.

(12) Note: Unit 4 (Map 4) follows.



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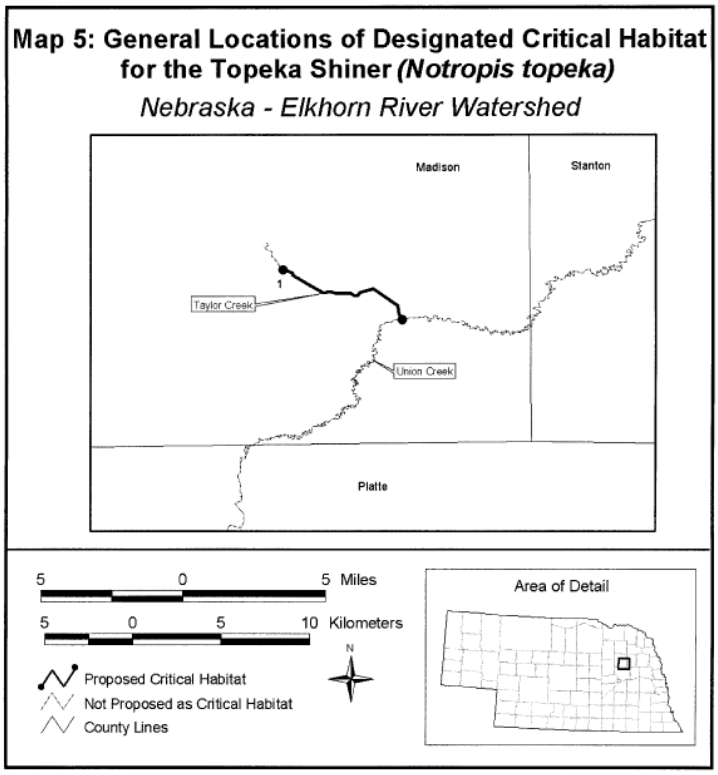
(13) Unit 5: Elkhorn River Watershed—Madison County, Nebraska.

Taylor Creek from its confluence with Union Creek (T22N, R1W, Sec. 32), upstream through T22N, R2W, Sec. 22.

(14) Note: Unit 5 (Map 5) follows.



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Waccamaw Silverside (Menidia extensa)

North Carolina, Columbus County. Lake Waccamaw in its entirety to mean high water level, and Big Creek from its mouth at Lake Waccamaw upstream approximately 0.6 kilometer (0.4 mile) to where the creek is crossed by County Road 1947.

Constituent elements include high quality clear open water, with a neutral pH and clean substrate.

Note:

Map follows:

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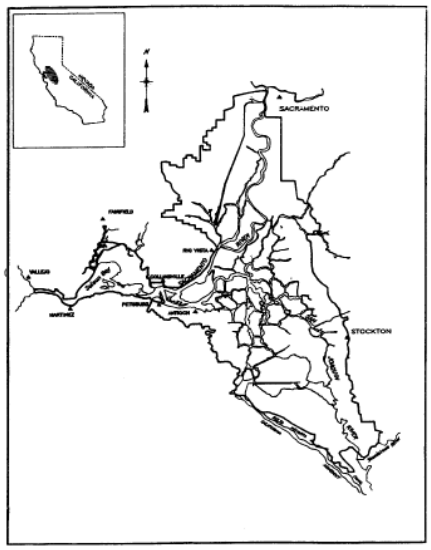
Delta Smelt (Hypomesus transpacificus)

California—Areas of all water and all submerged lands below ordinary high water and the entire water column bounded by and contained in Suisun Bay (including the contiguous Grizzly and Honker Bays); the length of Montezuma Slough; and the existing contiguous waters contained within the Delta, as defined by section 12220, of the State of California's Water Code of 1969 (a complex of bays, dead-end sloughs, channels typically less than 4 meters deep, marshlands, etc.) as follows:

Bounded by a line beginning at the Carquinez Bridge which crosses the Carquinez Strait; thence, northeasterly along the western and northern shoreline of Suisun Bay, including Goodyear, Suisun, Cutoff, First Mallard (Spring Branch), and Montezuma Sloughs; thence, upstream to the intersection of Montezuma Slough with the western boundary of the Delta as delineated in section 12220 of the State of California's Water Code of 1969; thence, following the boundary and including all contiguous water bodies contained within the statutory definition of the Delta, to its intersection with the San Joaquin River at its confluence with Suisun Bay; thence, westerly along the south shore of Suisun Bay to the Carquinez Bridge.

Note:

Map follows:



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Primary Constituent Elements—physical habitat, water, river flow, and salinity concentrations required to maintain delta smelt habitat for spawning, larval and juvenile transport, rearing, and adult migration.

Spikedace (Meda fulgida)

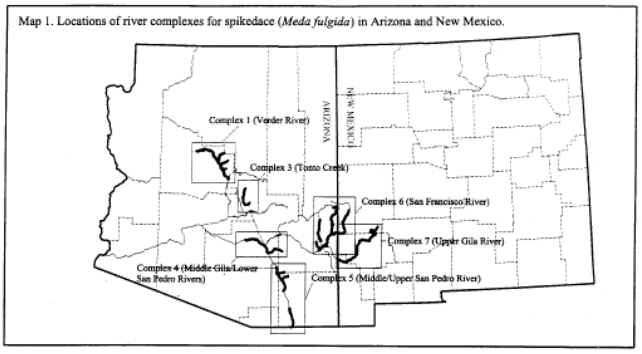
1. Critical habitat units are depicted for Cochise, Gila, Graham, Greenlee, Pima, Pinal, and Yavapai Counties, Arizona; and Catron, Grant, and Hidalgo Counties, New Mexico, on the maps and as described below.

2. Critical habitat includes the stream channels within the identified stream reaches described below and areas within these reaches potentially inundated by high flow events. Where delineated, this is the 100-year floodplain of the designated waterways as defined by the U.S. Army Corps of Engineers. In areas where the 100-year floodplain has not been delineated or it is in dispute, the presence of alluvial soils (soils deposited by streams), obligate and facultative riparian vegetation (requiring and usually occurring in wetlands respectively), abandoned river channels, or known high water marks can be used to determine the extent of the floodplain. Within these areas, only lands which provide the primary constituent elements or which will be capable, with restoration, of providing them, are considered critical habitat. Existing human-constructed

features and structures such as buildings, roads, etc., are not considered critical habitat.

3. Within these areas, the primary constituent elements include, but are not limited to, those habitat components that are essential for the primary biological needs of foraging, sheltering, dispersal, and reproduction. These elements include the following: (1) Permanent, flowing, unpolluted water; (2) living areas for adult spikedace with slow to swift flow velocities in shallow water with shear zones where rapid flow borders slower flow, areas of sheet flow at the upper ends of mid-channel sand/gravel bars, and eddies at downstream riffle edges; (3) living areas for juveniles with slow to moderate water velocities in shallow water with moderate amounts of instream cover; (4) living areas for the larval stage with slow to moderate flow velocities in shallow water with abundant instream cover; (5) sand, gravel, and cobble substrates with low to moderate amounts of fine sediment and substrate embeddedness; (6) pool, riffle, run, and backwater components of the streams; (7) low stream gradient; (8) water temperatures in the approximate range of 1–30 °C (35–85 °F) with natural diurnal and seasonal variation; (9) abundant aquatic insect food base; (10) periodic natural flooding; (11) a natural, unregulated hydrograph, or if flows are modified or regulated, then a hydrograph that demonstrates an ability to support a native fish community; and (12) habitat devoid of nonnative aquatic species detrimental to spikedace, or habitat in which detrimental nonnative species are at levels which allow persistence of spikedace.

4. Arizona (Gila and Salt River Meridian (GSRM) and New Mexico (New Mexico Principal Meridian (NMPM)): Areas of land and water as follows (physical features were identified using USGS 7.5' quadrangle maps; river reach distances were derived from digital data obtained from Arizona Land Resources Information System (ALRIS) and New Mexico Resource Geographic Information System (RGIS)):



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Spikedace (Meda fulgida)

Complex 1. Yavapai and Gila Counties, Arizona

a. Verde River for approximately 171.3 km (106.5 mi), extending from the confluence with Fossil Creek in GSRM, T.11N., R.6E., NE 1/4 Sec. 25 upstream to Sullivan Dam in GSRM, T.17N., R.2W., NW 1/4 Sec. 15.

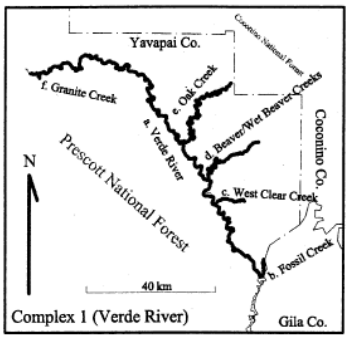
b. Fossil Creek for approximately 7.6 km (4.7 mi), extending from the confluence with the Verde River in GSRM, T.11.N., R.6E., NE 1/4 Sec. 25 upstream to the confluence with an unnamed tributary from the northwest in GSRM, T.11 1/2N., R.7E., center Sec. 29.

c. West Clear Creek for approximately 11.6 km (7.2 mi), extending from the confluence with the Verde River in GSRM, T.13N., R.5E., center Sec. 21, upstream to the confluence with Black Mountain Canyon in GSRM, T.13N., R.6E., SE 1/4 Sec. 17.

d. Beaver Creek/Wet Beaver Creek for approximately 33.4 km (20.8mi), extending from the confluence with the Verde River in GSRM, T.14N., R.5E., SE 1/4 Sec. 30 upstream to the confluence with Casner Canyon in GSRM, T.15N., R.6E., NW 1/4 Sec. 23.

e. Oak Creek for approximately 54.4 km (33.8 mi), extending from the confluence with the Verde River in GSRM, T.15N., R.4E., SE 1/4 Sec. 20 upstream to the confluence with an unnamed tributary from the south in GSRM, T.17N., R.5E., SE 1/4, NE 1/4 Sec. 24.

f. Granite Creek for approximately 2.3 km (1.4 mi), extending from the confluence with the Verde River in GSRM, T.17N., R.2W., NE 1/4 Sec. 14 upstream to a spring in GSRM, T.17N., R.2W., SW 1/4, SW 1/4, Sec. 13.



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Complex 3. Gila County, Arizona

a. Tonto Creek for approximately 47.0 km (29.2 mi), extending from the confluence with Greenback Creek in GSRM, T.5N., R.11E., NW 1/4 Sec. 8 upstream to the confluence with Houston Creek in GSRM, T.9N., R.11E., NE 1/4, Sec. 18.

b. Greenback Creek for approximately 13.5 km (8.4 mi), extending from the confluence with Tonto Creek in GSRM, T.5N., R.11E., NW 1/4 Sec. 8 upstream to Lime Springs in GSRM, T.6N., R.12E., SW 1/4 Sec. 20.

c. Rye Creek for approximately 2.1 km (1.3 mi), extending from the confluence with Tonto Creek in GSRM, T.8N., R.10E., SW 1/4 Sec. 13 upstream to the confluence with Brady Canyon in GSRM, T.8N., R.10E., NE 1/4 Sec. 14.

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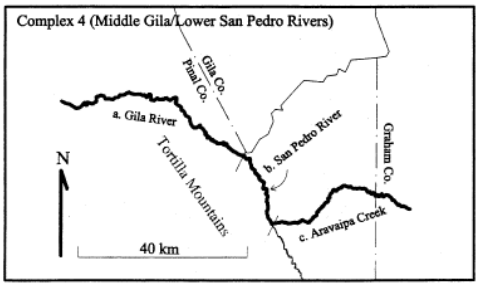
Complex 4. Graham, and Pinal Counties, Arizona

a. Gila River for approximately 62.8 km (39.0 mi), extending from Ashurst-Hayden Dam in GSRM, T.4S., R.11E., NW 1/4 Sec. 8 upstream to the confluence with the San Pedro River in GSRM, T.5S., R.15E., center Sec. 23.

b. San Pedro River for approximately 21.4 km (13.3 mi), extending from the confluence with the Gila River in GSRM, T.5S., R.15E., center Sec. 23 upstream to the confluence with Aravaipa Creek in GSRM, T.7S., R.16E., center Sec. 9.

c. Aravaipa Creek for approximately 45.3 km (28.1 mi), extending from the confluence with the San Pedro River in GSRM, T.7S., R.16E., center Sec. 9 upstream to the confluence with Stowe Gulch in GSRM, T.6S., R.19E., SE 1/4 of the NE 1/4 Sec. 35.



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Complex 5. Cochise, Graham, and Pima Counties, Arizona

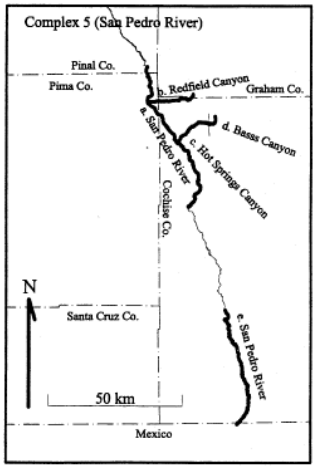
a. San Pedro River for approximately 73.6 km (45.8 mi), extending from the confluence with Alder Wash in GSRM, T.10S., R.18E., SW 1/4 Sec.22 upstream to the confluence with Ash Creek in GSRM, T.16S., R.20E., SE 1/4 Sec. 6.

b. Redfield Canyon for approximately 22.3 km (13.9 mi), extending from the confluence with the San Pedro River in GSRM, T.11S., R.18E., SW 1/4 Sec. 34 upstream to the confluence with Sycamore Canyon in GSRM, T.11S., R.20E., NW 1/4 Sec. 28.

c. Hot Springs Canyon for approximately 19.1 km (11.8 mi), extending from the confluence with the San Pedro River in GSRM, T.13S., R.19E., west center Sec.23 upstream to the confluence with Bass Canyon in GSRM, T.12S., R.20E., NE 1/4 Sec. 36.

d. Bass Canyon for approximately 5.1 km (3.2 mi), extending from the confluence with Hot Springs Canyon in GSRM, T.12S., R.20E., NE 1/4 Sec. 36 upstream to the confluence with Pine Canyon in GSRM, T.12S., R.21E., center Sec. 20.

e. San Pedro River for approximately 60.0 km (37.2 mi), extending from the confluence with the Babocomari River in the San Juan de las Boquillas y Nogales land grant upstream to the U.S. border with Mexico in GSRM, T.24S., R.22E., Sec. 19.



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Complex 6. Graham and Greenlee Counties, Arizona and Catron County, New Mexico

a. Gila River for approximately 36.3 km (22.6 mi), extending from the Brown Canal diversion at the head of the Safford Valley in GSRM, T.6S., R.28E., SE 1/4 Sec. 30 upstream to the confluence with Owl Canyon in GSRM, T.5S., R.30E., SW 1/4 Sec. 30.

b. Bonita Creek for approximately 23.5 km (14.6 mi), extending from the confluence with the Gila River in GSRM, T.6S., R.28E., SE 1/4 Sec. 21 upstream to the confluence with Martinez Wash in GSRM, T.4S., R.27E., SE 1/4 Sec.27.

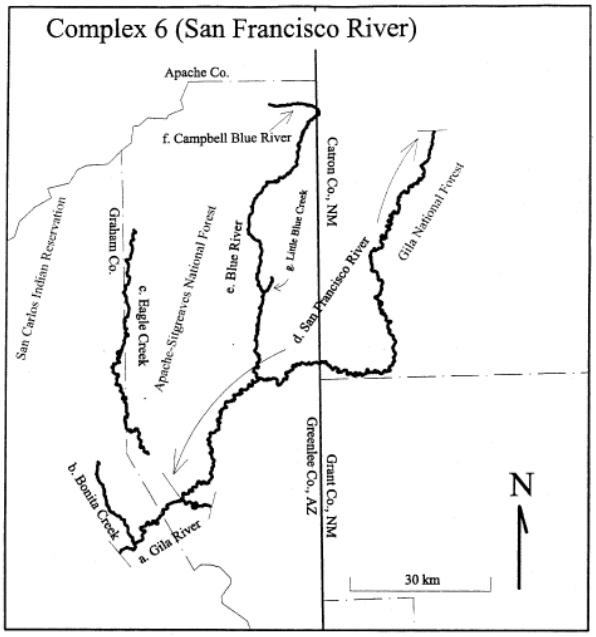
c. Eagle Creek for approximately 72.8 km (45.2 mi), extending from the Phelps-Dodge diversion dam in GSRM, T.4S., R.28E., NW 1/4 Sec. 23 upstream to the confluence of Dry Prong and East Eagle Creeks in GSRM, T.2N., R.28E., SW 1/4 Sec. 20, excluding lands on the San Carlos Apache Indian Reservation.

d. San Francisco River for approximately 181.5 km (113.2 mi), extending from the confluence with the Gila River in GSRM, T.5S., R.29E., SE 1/4 Sec. 21 upstream to the confluence with the Tularosa River in the NMPM, T.7S., R.19W., SW 1/4 Sec. 23.

e. Blue River for approximately 81.9 km (51.0 mi), extending from the confluence with the San Francisco River in GSRM, T.2S., R.31E., SE 1/4 Sec. 31 upstream to the confluence of Campbell and Dry Blue Creeks in NMPM, T.7S., R.21W., SE 1/4 Sec. 6.

f. Campbell Blue Creek for approximately 13.1 km (8.2 mi), extending from the confluence with Dry Blue Creek in NMPM, T.7S., R.21W., SE 1/4 Sec. 6 upstream to the confluence with Coleman Creek in GSRM, T.4 1/2 N., R.31E., SW 1/4 of the NE 1/4 Sec. 32.

g. Little Blue Creek for approximately 4.5 km (2.8 mi), extending from the confluence with the Blue River in GSRM, T.1S., R.31E., center Sec. 5 upstream to the mouth of a box canyon in GSRM, T.1N., R.31E., NE 1/4 SE 1/4 Sec. 29.



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Complex 7. Grant and Catron Counties, New Mexico

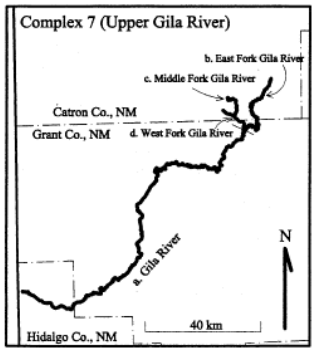
a. Gila River for approximately 164.4 km (102.2 mi), extending from the confluence with Moore Canyon in NMPM, T.18S., R.21W., SE 1/4 SW 1/4 Sec. 31 upstream to the confluence of the East and West Forks of the Gila River in NMPM, T.13S., R.13W., center Sec. 8.

b. East Fork Gila River for approximately 42.1 km (26.1 mi), extending from the confluence with the West

Fork Gila River in NMPM, T.13S., R.13W., center Sec. 8 upstream to the confluence of Beaver and Taylor Creeks in NMPM, T.11S., R.12W., NE 1/4 Sec. 17.

c. Middle Fork Gila River for approximately 12.3 km (7.7 mi), extending from the confluence with the West Fork Gila River in NMPM, T.12S., R.14W., SW 1/4 Sec. 25 upstream to the confluence with Big Bear Canyon in NMPM, T.12S., R.14W., NW 1/4 Sec. 2.

d. West Fork Gila River for approximately 12.4 km (7.7 mi), extending from the confluence with the East Fork Gila River in NMPM, T.13S., R.13W., center Sec. 8 upstream to the confluence with EE Canyon in NMPM, T.12S., R.14W., east boundary of Sec. 21.



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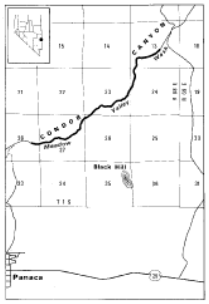
Big Spring Spinedace (Lepidomeda mollispinis pratensis)

Nevada. Condor Canyon, Lincoln County. Four stream miles of Meadow Valley Wash and 50 feet on either side of the stream as it flows through the following sections: T. 1 S., R. 68 E., Sections 13, 23, 24, 26, 27, and 28.

Known constituent elements include clean permanent flowing spring-fed stream with deep pool areas and shallow marshy areas along the shore and the absence of exotic fishes.

Note:

Map follows:



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Little Colorado Spinedace (Lepidomeda vittata)

Arizona:

1. Coconino County. East Clear Creek; approximately 18 miles of stream extending from the confluence with Leonard Canyon (NE 1/4 Sec. 11 T14N R12E) upstream to the Blue Ridge Reservoir dam (SE 1/4 Sec. 33 T14N R11E), and approximately 13 miles of stream extending from the upper end of Blue Ridge Reservoir (east boundary SE 1/4 Sec. 36 T14N R10E) upstream to Potato Lake (NE 1/4 Sec. 1 T12N R9E).

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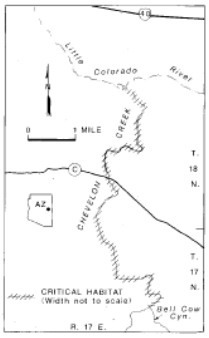
2. Navajo County. Chevelon Creek; approximately 8 miles of stream extending from the confluence with the Little Colorado River (NW 1/4 Sec. 23 T18N R17E) upstream to Bell Cow Canyon (SE 1/4 of the SW 1/4 Sec. 11 T17N R17E).



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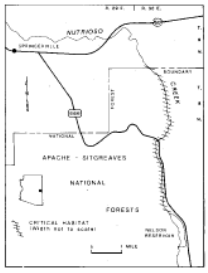
3. Apache County. Nutrioso Creek; approximately 5 miles of stream extending from the Apache-Sitgreaves National Forest boundary (north boundary Sec. 5 T8N R30E) upstream to the Nelson Reservoir dam (NE 1/4 Sec. 29 T8N R30E).



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Constituent elements, for all areas of critical habitat, include clean, permanent flowing water, with pools and a fine gravel or silt-mud substrate.

White River Spinedace (Lepidomeda albivallis)

Nevada, White Pine County. Each of the following springs and outflows plus surrounding land areas for a distance of 50 feet from these springs and outflows:

Preston Big Spring and associated outflows within T12N, R61E, NE 1/4 Sec. 2.

Lund Spring and associated outflows within T11N, R62E, NE 1/4 of NE 1/4 of Sec. 4; T12N, R62E, S 1/2 of SE 1/4 Sec. 33.

Note:

Map follows:

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Nevada, Nye County. Flag Springs and associated outflows plus surrounding land areas for a distance of 50 feet from the springs and outflows within the following areas: T7N, R62E, E 1/2 of NE 1/4 Sec. 32, SW 1/4 of NW 1/4 Sec. 33.

Note:

Map follows:

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Known constituent elements for all areas of critical habitat include consistently high quality and quantity of cool springs and their outflows, and surrounding land area that provide vegetation for cover and habitat for insects and other invertebrates on which the species feeds.

Hiko White River Springfish (Crenichthys baileyi grandis)

Nevada, Lincoln County. Each of the following springs and outflows plus surrounding land areas for a distance of 50 feet from these springs and outflows:

Hiko Spring and associated outflows within T4S, R60E, SW 1/4 of NE 1/4 Sec. 14 and NW 1/4 of SE 1/4 Sec. 14.

Crystal Springs and associated outflows within T5S, R60E, all of NE 1/4 of Sec. 10 and NE 1/4 of SE 1/4 Sec. 10, SW 1/4 of NW 1/4 Sec. 11 and NW 1/4 of SW 1/4 Sec. 11.

Note:

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Known constituent elements include warmwater springs and their outflows and surrounding land areas that provide vegetation for cover and habitat for insects and other invertebrates on which the species feeds.

Railroad Valley Springfish (Crenichthys nevadae)

1. Nevada, Nye County, Duckwater area. Big Warm Spring and its outflow pools, streams, and marshes and a 50 foot riparian zone around the spring, outflow pools, streams, and marshes in T13N, R56E, NE 1/4 Sec. 31, SE 1/4 Sec. 31, NW 1/4 Sec. 32. Little Warm Spring and its outflow pools, streams, and marshes, and a 50-foot riparian zone around the spring, outflow pools, streams, and marshes in T12N, R56E, Sec. 5.

Note:

Map follows:

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1. Nevada, Nye County, Lockes Area. North, Hay Corral, Big, and Reynolds Springs and their outflow pools, streams, and marshes, and a 50-foot riparian zone around the springs, outflow pools, streams, and marshes in T8N, R55E, SW 1/4 Sec. 11, NW 1/4 Sec. 14, SW 1/4 Sec. 14, SE 1/4 Sec. 15, NE 1/4 Sec. 15, SW 1/4 Sec. 15.

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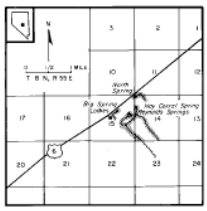

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Known constituent elements for all areas of critical habitat of the Railroad Valley springfish include clear, unpolluted thermal spring waters ranging in temperature from 29° to 36 °C in pools; flowing channels; marshy areas with aquatic plants, insects, and mollusks.

White River Springfish (Crenichthys baileyi baileyi)

Nevada, Lincoln County. Ash Springs and associated outflows plus surrounding land areas for a distance of 50 feet from the springs and outflows within the following areas: T6S, R60E, E 1/2 of E 1/2 Sec. 1 and T6S, R61E, NW 1/4 of NW 1/4 Sec. 6.

Note:

Map follows:

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Known constituent elements include warmwater springs and their outflows and surrounding land areas that provide vegetation for cover and habitat or insects and other invertebrates on which the species feeds.

Colorado Squawfish (Ptychocheilus lucius)

Description of areas taken from BLM 1:100,000 maps (available from BLM State Offices): Canyon of Lodore, CO 1990; La Sal, UT/CO 1985; Rangely, CO 1989; Delta, CO 1989; Grand Junction, CO 1990; Hite Crossing, UT 1982; Vernal, UT/CO 1990; Craig, CO 1990; Bluff, UT/CO 1985; Moab, UT/CO 1985; Hanksville, UT 1982; San Rafael Desert, UT 1985; Huntington, UT 1982; Price, UT 1989; Farmington, NM 1991; Navajo Mountain, UT/AZ 1982. The 100-year flood plain for many areas is detailed in Flood Insurance Rate Maps (FIRM) published by and available through the Federal Emergency Management Agency (FEMA). In areas where a FIRM is not available, the presence of alluvium soils or known high water marks can be used to determine the extent of the flood plain. Only areas of flood plain containing constituent elements are considered critical habitat.

Colorado: Moffat County. The Yampa River and its 100-year flood plain from the State Highway 394 bridge in T.6N., R.91W., sec. 1 (6th Principal Meridian) to the confluence with the Green River in T.7N., R.103W., sec. 28 (6th Principal Meridian).

Utah: Uintah, Carbon, Grand, Emery, Wayne, and San Juan Counties; and Colorado: Moffat County. The Green River and its 100-year flood plain from the confluence with the Yampa River in T.7N., R.103W., sec. 28 (6th Principal Meridian) to the confluence with the Colorado River in T.30S., R.19E., sec. 7 (Salt Lake Meridian).

Colorado: Rio Blanco County; and Utah: Uintah County. The White River and its 100-year flood plain from Rio Blanco Lake Dam in T.1N., R.96W., sec. 6 (6th Principal Meridian) to the confluence with the Green River in T.9S., R.20E., sec. 4 (Salt Lake Meridian).

Colorado: Delta and Mesa Counties. The Gunnison River and its 100-year flood plain from the confluence with the Uncompahgre River in T.15S., R.96W., sec. 11 (6th Principal Meridian) to the confluence with the Colorado River in T.1S., R.1W., sec. 22 (Ute Meridian).

Colorado: Mesa and Garfield Counties; and Utah: Grand, San Juan, Wayne, and Garfield Counties. The Colorado River and its 100-year flood plain from the Colorado River Bridge at exit 90 north off Interstate 70 in T.6S., R.93W., sec. 16 (6th Principal Meridian) to North Wash including the Dirty Devil arm of Lake Powell up to the full pool elevation in T.33S., R.14E., sec. 29 (Salt Lake Meridian).

New Mexico: San Juan County; and Utah: San Juan County. The San Juan River and its 100-year flood plain from the State Route 371 Bridge in T.29N., R.13W., sec. 17 (New Mexico Meridian) to Neskahai Canyon in the San Juan arm of Lake Powell in T.41S., R.11E., sec. 26 (Salt Lake Meridian) up to the full pool elevation.

Known constituent elements include water, physical habitat, and biological environment as required for each particular life stage for each species.

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Gulf Sturgeon (Acipenser oxyrinchus desotoi)

(1) Critical habitat units are depicted for Louisiana, Mississippi, Alabama, and Florida on the maps below.

(2) The primary constituent elements essential for the conservation of Gulf sturgeon are those habitat components that support feeding, resting, and sheltering, reproduction, migration, and physical features necessary for maintaining the natural processes that support these habitat components. The primary constituent elements include:

(i) Abundant prey items within riverine habitats for larval and juvenile life stages, and within estuarine and marine habitats and substrates for juvenile, subadult, and adult life stages;

(ii) Riverine spawning sites with substrates suitable for egg deposition and development, such as limestone outcrops and cut limestone banks, bedrock, large gravel or cobble beds, marl, soapstone or hard clay;

(iii) Riverine aggregation areas, also referred to as resting, holding, and staging areas, used by adult, subadult, and/or juveniles, generally, but not always, located in holes below normal riverbed depths, believed necessary for minimizing energy expenditures during fresh water residency and possibly for osmoregulatory functions;

(iv) A flow regime (*i.e*,. the magnitude, frequency, duration, seasonality, and rate-of-change of fresh water discharge over time) necessary for normal behavior, growth, and survival of all life stages in the riverine environment, including migration, breeding site selection, courtship, egg fertilization, resting, and staging; and necessary for maintaining spawning sites in suitable condition for egg attachment, egg sheltering, resting, and larvae staging;

(v) Water quality, including temperature, salinity, pH, hardness, turbidity, oxygen content, and other chemical characteristics, necessary for normal behavior, growth, and viability of all life stages;

(vi) Sediment quality, including texture and other chemical characteristics, necessary for normal behavior, growth, and viability of all life stages; and

(vii) Safe and unobstructed migratory pathways necessary for passage within and between riverine, estuarine, and marine habitats (e.g. a river unobstructed by any permanent structure, or a dammed river that still allows for passage).

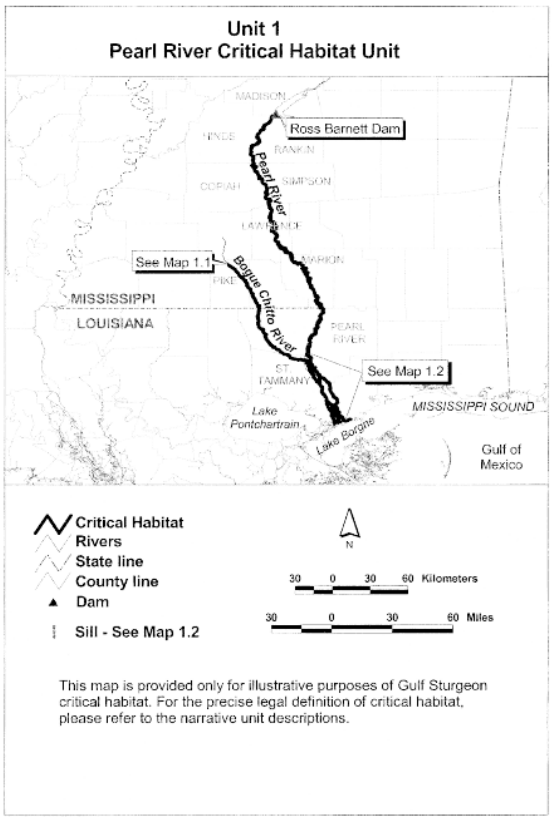
(3) Gulf sturgeon is under the joint jurisdiction of the U.S. Fish and Wildlife Service (FWS) and National Marine Fisheries Service (NMFS). The FWS will maintain primary responsibility for recovery actions and NMFS will assist in and continue to fund recovery actions pertaining to estuarine and marine habitats. In riverine units, the FWS will be responsible for all consultations regarding Gulf sturgeon and critical habitat. In estuarine units, we will divide responsibility based on the action agency involved. The FWS will consult with the Department of Transportation, the Environmental Protection Agency, the U.S. Coast Guard, and the Federal Emergency Management Agency. NMFS will consult with the Department of Defense, U.S. Army Corps of Engineers, Minerals Management Service and any other Federal agencies not mentioned here explicitly. In marine units, NMFS will be responsible for all consultations regarding Gulf sturgeon and critical habitat. Any Federal projects that extend into the jurisdiction of both the Services will be consulted on by the FWS with internal coordination with NMFS. Each agency will conduct its own intra-agency consultations as necessary.

(4) The textual unit descriptions below are the definitive source for determining the critical habitat boundaries. General location maps by unit are provided at the end of each unit description and are provided for general guidance purposes only, and not as a definitive source for determining critical habitat boundaries.

(5) *Unit 1:* Pearl River System in St. Tammany and Washington Parishes in Louisiana and Walthall, Hancock, Pearl River, Marion, Lawrence, Simpson, Copiah, Hinds, Rankin, and Pike Counties in Mississippi.

(i) Unit 1 includes the Pearl River main stem from the spillway of the Ross Barnett Dam, Hinds and Rankin Counties, Mississippi, downstream to where the main stem river drainage discharges at its mouth joining Lake Borgne, Little Lake, or The Rigolets in Hancock County, Mississippi, and St. Tammany Parish, Louisiana. It includes the main stems of the East Pearl River, West Pearl River, West Middle River, Holmes Bayou, Wilson Slough, downstream to where these main stem river drainages discharge at the mouths of Lake Borgne, Little Lake, or The Rigolets. Unit 1 also includes the Bogue Chitto River main stem, a tributary of the Pearl River, from Mississippi State Highway 570, Pike County, Mississippi, downstream to its confluence with the West Pearl River, St. Tammany Parish, Louisiana. The lateral extent of Unit 1 is the ordinary high water line on each bank of the associated rivers and shorelines.

(ii) Maps of Unit 1 follow:



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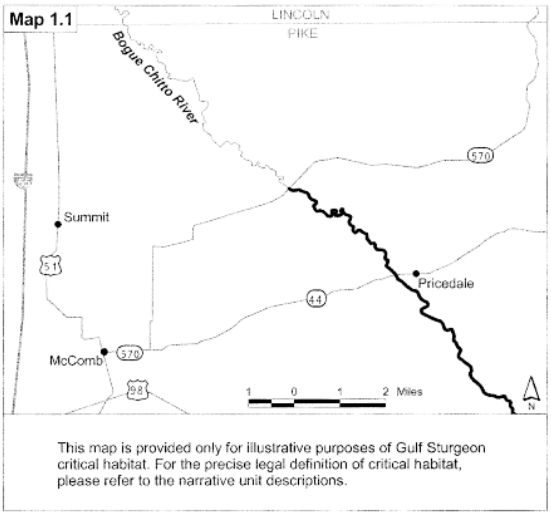

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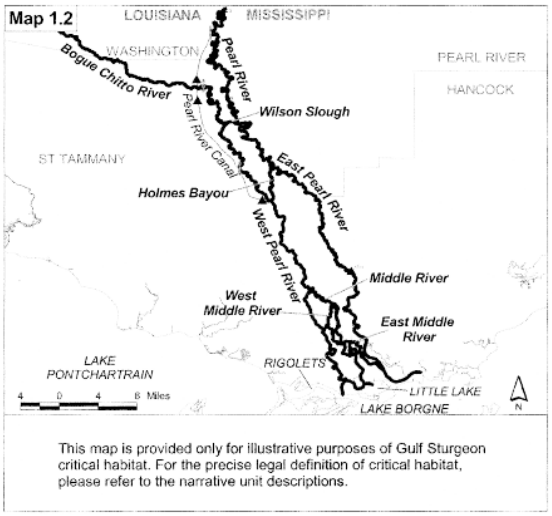

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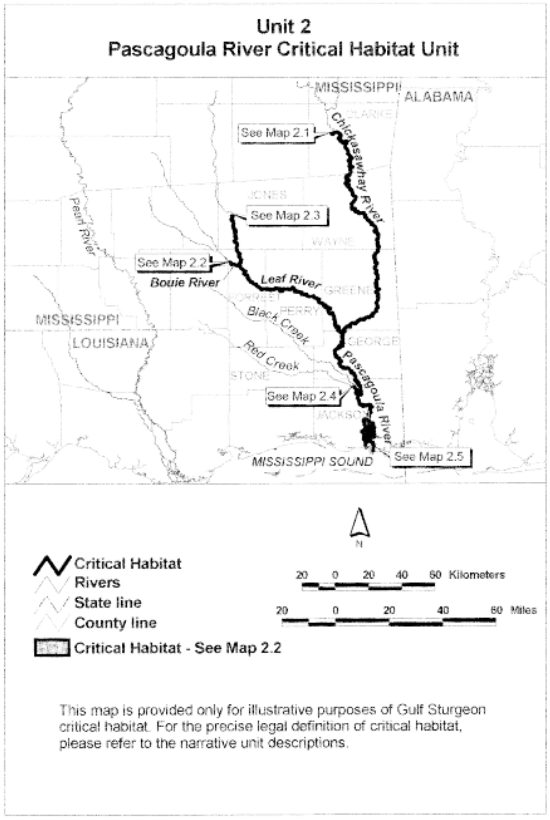
(6) *Unit 2:* Pascagoula River System in Forrest, Perry, Greene, George, Jackson, Clarke, Jones, and Wayne Counties, Mississippi.

(i) Unit 2 includes all of the Pascagoula River main stem and its distributaries, portions of the Bouie, Leaf, and Chickasawhay tributaries, and all of the Big Black Creek tributary. It includes the Bouie River main stem beginning on the southern-most road crossing of Interstate 59, Forrest County, Mississippi, downstream to its confluence with the Leaf River, Forrest County, Mississippi. The Leaf River main stem beginning from Mississippi State Highway 588, Jones County, Mississippi, downstream to its confluence with the Chickasawhay River, George County, Mississippi is included. The main stem of the Chickasawhay River from the mouth of Oaky Creek, Clarke County, Mississippi, downstream to its confluence with the Leaf River, George County, Mississippi is included. Unit 2 also includes Big Black Creek main stem from its confluence with Black and Red Creeks, Jackson County, Mississippi, to its confluence with the Pascagoula River, Jackson County, Mississippi. All of the main stem of the Pascagoula River from its confluence with the Leaf and Chickasawhay Rivers, George County, Mississippi, to the discharge of the East and West Pascagoula Rivers into Pascagoula Bay, Jackson County, Mississippi, is included. The lateral extent of Unit 2 is the ordinary high water line on each bank of the associated rivers and shorelines.

(ii) Major shipping channels in this unit are excluded under section 4(b)(2) of the Act.

(iii) Maps of Unit 2 follow:



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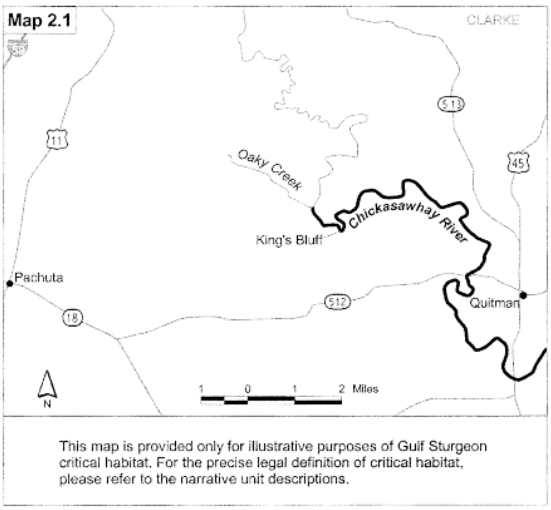

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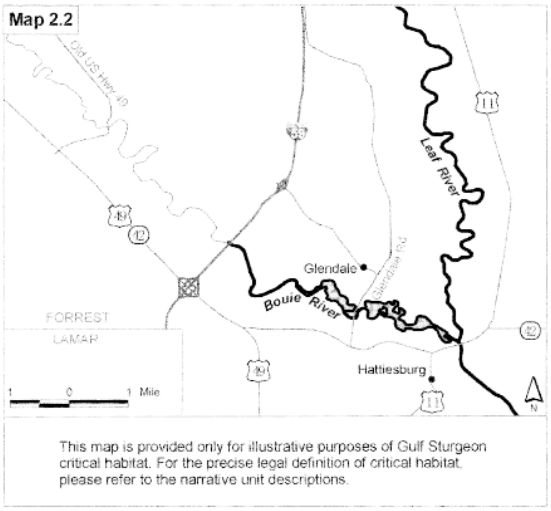

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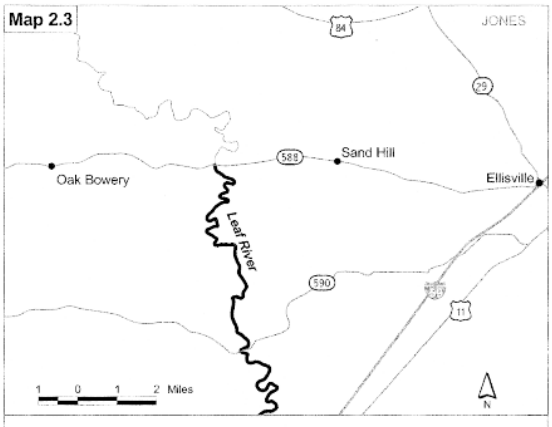

This map is provided only for illustrative purposes of Gulf Sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

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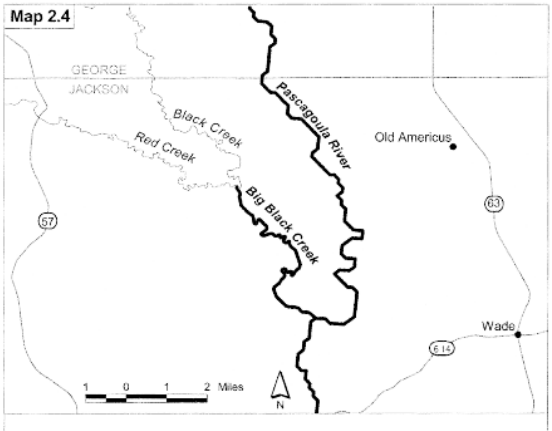

This map is provided only for illustrative purposes of Gulf Sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

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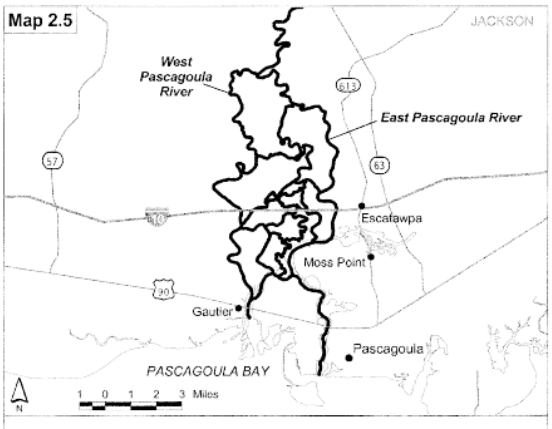

This map is provided only for illustrative purposes of Gulf Sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

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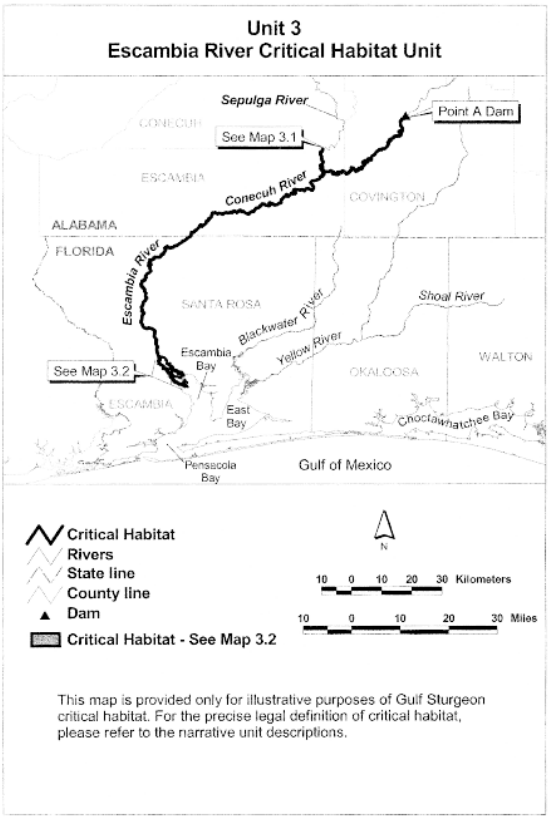
(7) *Unit 3:* Escambia River System in Santa Rosa and Escambia Counties, Florida and Escambia, Conecuh, and Covington Counties, Alabama.

(i) Unit 3 includes the Conecuh River main stem beginning just downstream of the spillway of Point A Dam, Covington County, Alabama, downstream to the Florida State line, where its name changes to the Escambia River, Escambia County, Alabama, and Escambia and Santa Rosa Counties, Florida. It includes the entire main stem of the Escambia River downstream to its discharge into Escambia Bay and Macky Bay, Escambia and Santa Rosa Counties, Florida. All of the distributaries of the Escambia River including White River, Little White River, Simpson River, and Dead River, Santa Rosa County, Florida are included. The Sepulga River main stem from Alabama County Road 42, Conecuh and Escambia Counties, Alabama, downstream to its confluence with the Conecuh River, Escambia County, Alabama, is also included. The lateral extent of Unit 3 is the ordinary high water line on each bank of the associated lakes, rivers, and shorelines.

(ii) Maps of Unit 3 follow:



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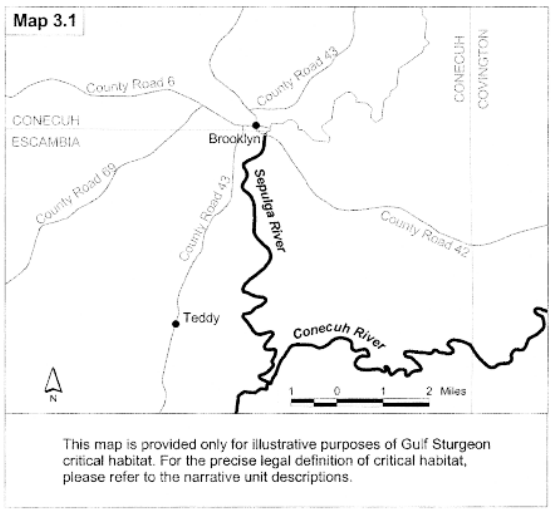

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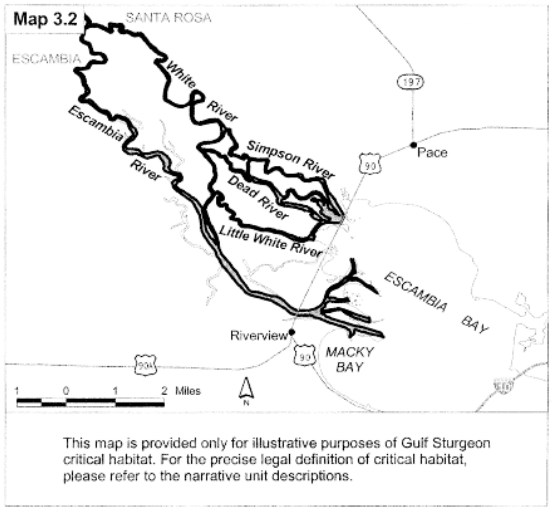

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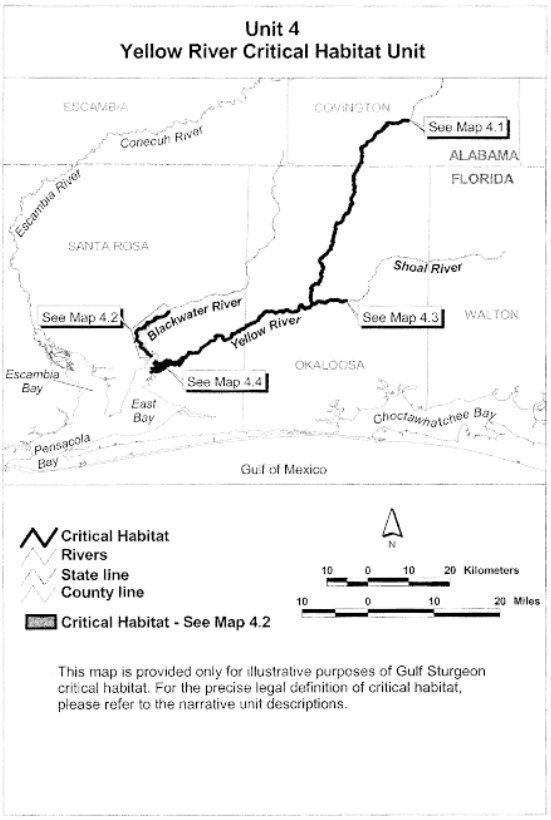
(8) *Unit 4:* Yellow River System in Santa Rosa and Okaloosa Counties, Florida and Covington County, Alabama.

(i) Unit 4 includes the Yellow River main stem from Alabama State Highway 55, Covington County, Alabama, downstream to its discharge at Blackwater Bay, Santa Rosa County, Florida. All Yellow River distributaries (including Weaver River and Skim Lake) discharging into Blackwater Bay are included. The Shoal River main stem, a Yellow River tributary, from Florida Highway 85, Okaloosa County, Florida, to its confluence with the Yellow River, is included. The Blackwater River from its confluence with Big Coldwater Creek, Santa Rosa County, Florida, downstream to its discharge into Blackwater Bay is included. Wright Basin and Cooper Basin, Santa Rosa County, on the Blackwater River are included. The lateral extent of Unit 4 is the ordinary high water line on each bank of the associated lakes, rivers, and shorelines.

(ii) Maps of Unit 4 follow:



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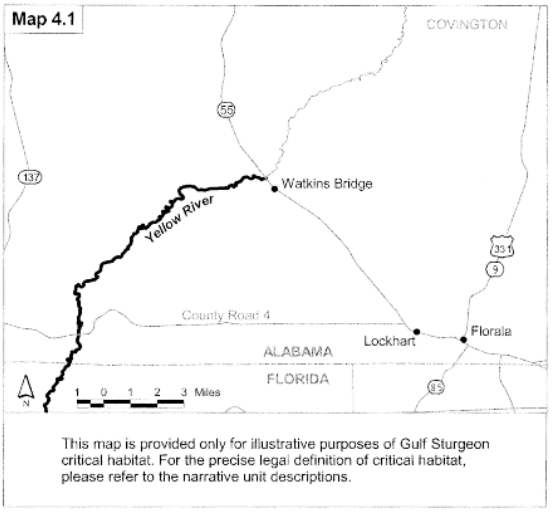

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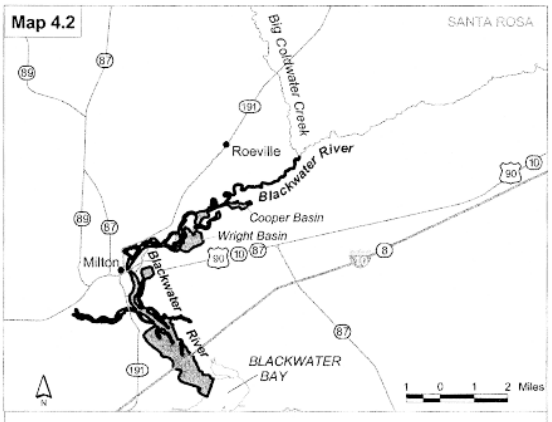

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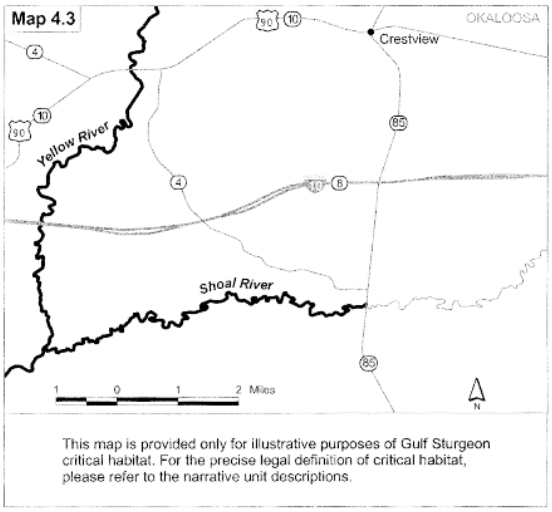

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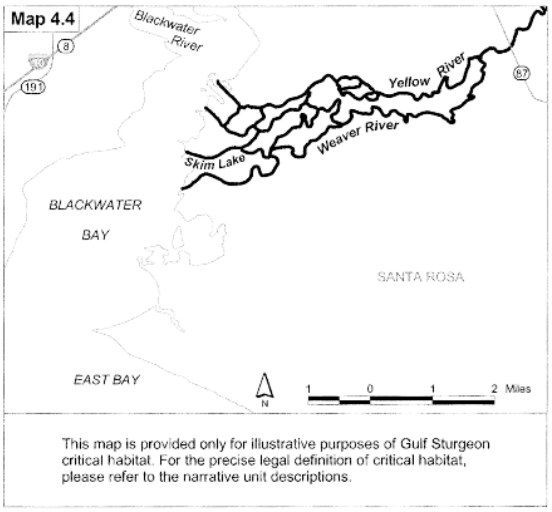

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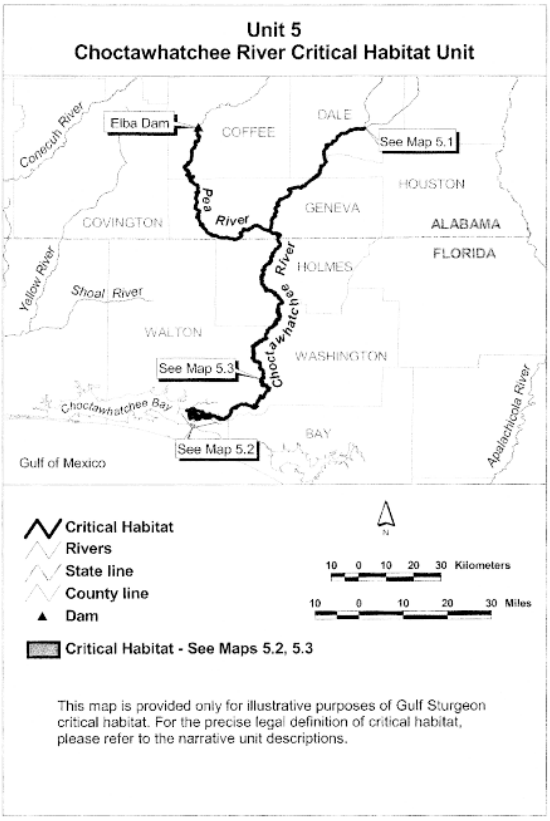
(9) *Unit 5:* Choctawhatchee River System in Holmes, Washington, and Walton Counties, Florida and Dale, Coffee, Geneva, and Houston Counties, Alabama.

(i) Unit 5 includes the Choctawhatchee River main stem from its confluence with the west and east fork of the Choctawhatchee River, Dale County, Alabama, downstream to its discharge at Choctawhatchee Bay, Walton County, Florida. The distributaries discharging into Choctawhatchee Bay known as Mitchell River, Indian River, Cypress River, and Bells Leg are included. The Boynton Cutoff, Washington County, Florida, which joins the Choctawhatchee River main stem, and Holmes Creek, Washington County, Florida, are included. The section of Holmes Creek from Boynton Cutoff to the mouth of Holmes Creek, Washington County, Florida, is included. The Pea River main stem, a Choctawhatchee River tributary, from the Elba Dam, Coffee County, Alabama, to its confluence with the Choctawhatchee River, Geneva County, Alabama, is included. The lateral extent of Unit 5 is the ordinary high water line on each bank of the associated rivers and shorelines.

(ii) Maps of Unit 5 follow:



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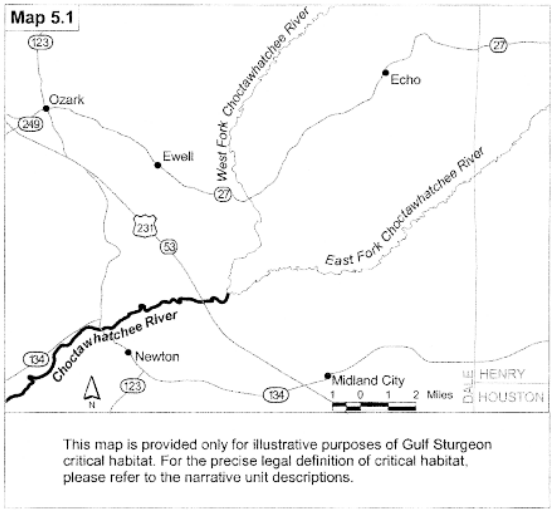

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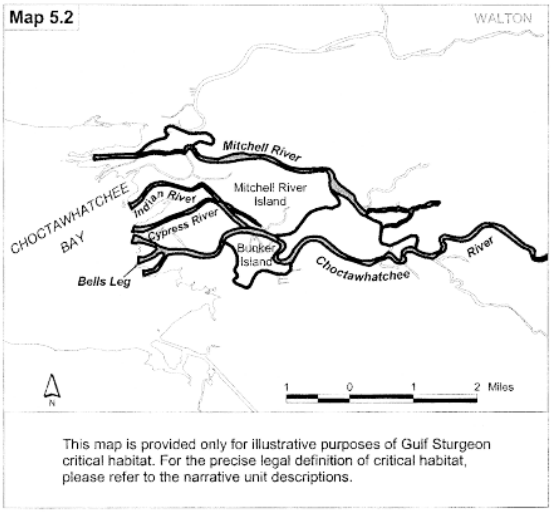

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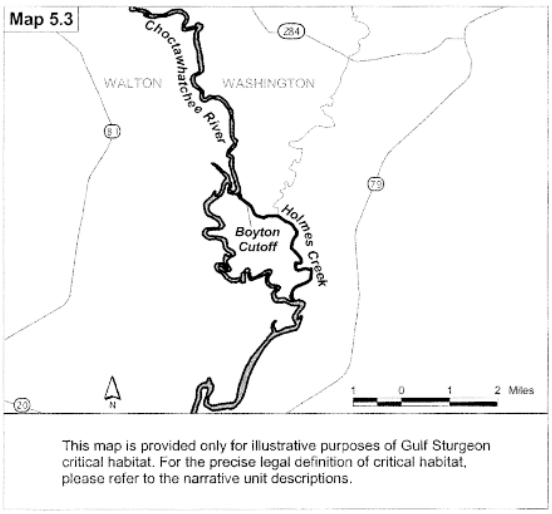

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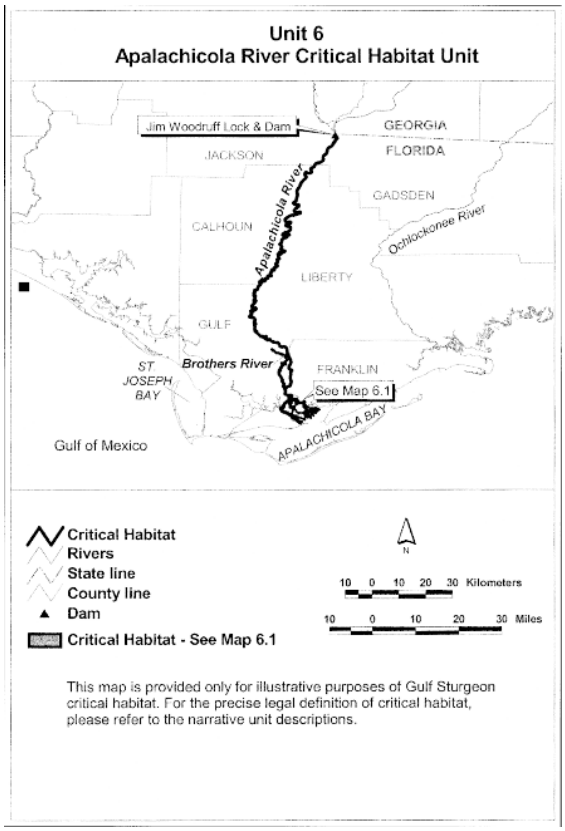
(10) *Unit 6:* Apalachicola River System in Franklin, Gulf, Liberty, Calhoun, Jackson, and Gadsen Counties, Florida.

(i) Unit 6 includes the Apalachicola River mainstem, beginning from the Jim Woodruff Lock and Dam, Gadsden and Jackson Counties, Florida, downstream to its discharge at East Bay or Apalachicola Bay, Franklin County, Florida. All Apalachicola River distributaries, including the East River, Little St. Marks River, St. Marks River, Franklin County, Florida, to their discharge into East Bay and/or Apalachicola Bay are included. The entire main stem of the Brothers River, Franklin and Gulf Counties, Florida, a tributary of the Apalachicola River, is included. The lateral extent of Unit 6 is the ordinary high water line on each bank of the associated rivers and shorelines.

(ii) Maps of Unit 6 follow:



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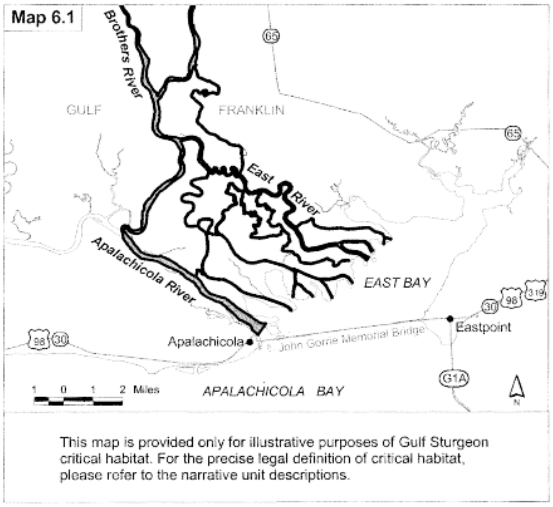

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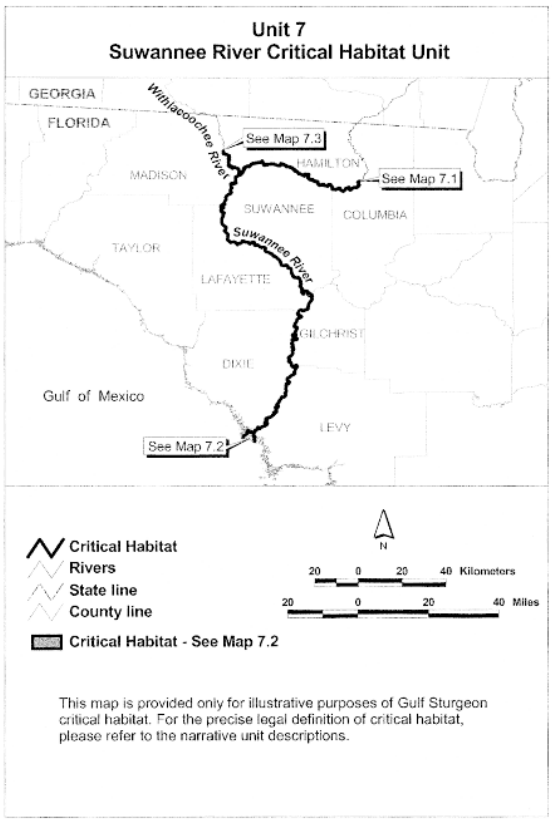
(11) *Unit 7:* Suwannee River System in Hamilton, Suwannee, Madison, Lafayette, Gilchrist, Levy, Dixie, and Columbia Counties, Florida.

(i) Unit 7 includes the Suwannee River main stem, beginning from its confluence with Long Branch Creek, Hamilton County, Florida, downstream to the mouth of the Suwannee River. It includes all the Suwannee River distributaries, including the East Pass, West Pass, Wadley Pass, and Alligator Pass, Dixie and Levy Counties, Florida, to their discharge into the Suwannee Sound or the Gulf of Mexico. The Withlacoochee River main stem from Florida State Road 6, Madison and Hamilton Counties, Florida, to its confluence with the Suwannee River is included. The lateral extent of Unit 7 is the ordinary high water line on each bank of the associated rivers and shorelines.

(ii) Maps of Unit 7 follow:



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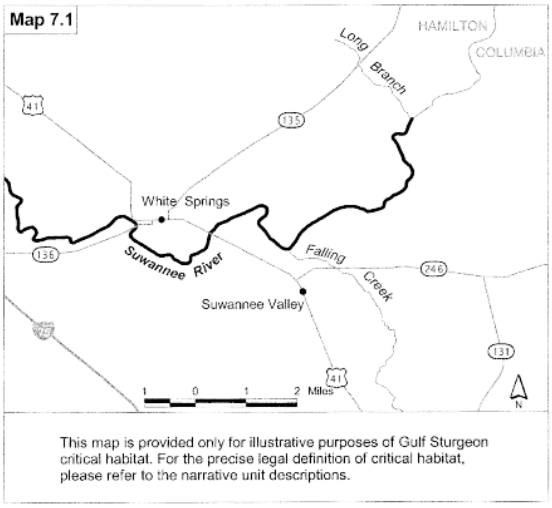

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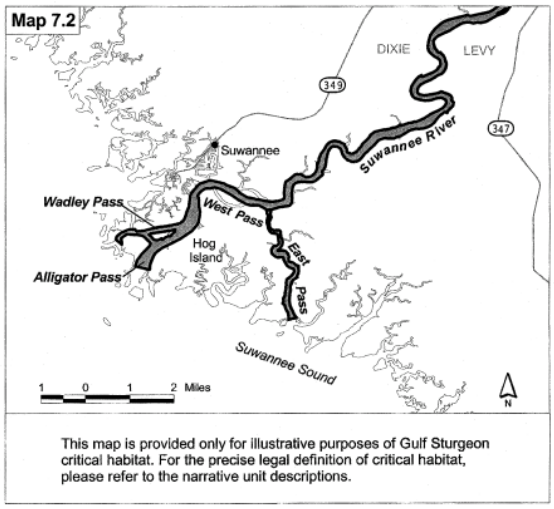

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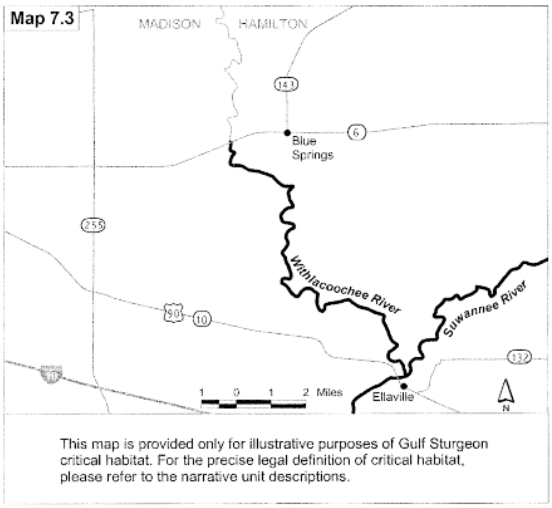

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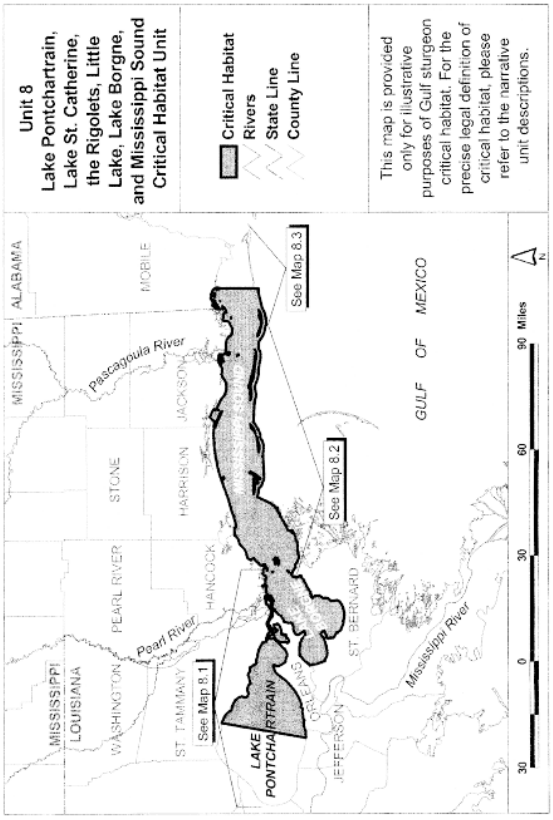
(12) *Unit 8:* Lake Pontchartrain, Lake St. Catherine, The Rigolets, Little Lake, Lake Borgne, and Mississippi Sound in Jefferson, Orleans, St. Tammany, and St. Bernard Parish, Louisiana, Hancock, Jackson, and Harrison Counties in Mississippi, and in Mobile County, Alabama.

(i) Unit 8 encompasses Lake Pontchartrain east of the Lake Pontchartrain Causeway, all of Little Lake, The Rigolets, Lake St. Catherine, Lake Borgne, including Heron Bay, and the Mississippi Sound. Critical habitat follows the shorelines around the perimeters of each included lake. The Mississippi Sound includes adjacent open bays including Pascagoula Bay, Point aux Chenes Bay, Grand Bay, Sandy Bay, and barrier island passes, including Ship Island Pass, Dog Keys Pass, Horn Island Pass, and Petit Bois Pass. The northern boundary of the Mississippi Sound is the shorelines of the mainland between Heron Bay Point, Mississippi and Point aux Pins, Alabama. Critical habitat excludes St. Louis Bay, north of the railroad bridge across its mouth; Biloxi Bay, north of the U.S. Highway 90 bridge; and Back Bay of Biloxi. The southern boundary follows along the broken shoreline of Lake Borgne created by low swampy islands from Malheureux Point to Isle au Pitre. From the northeast point of Isle au Pitre, the boundary continues in a straight north-northeast line to the point 1 nautical mile (nm) (1.9 kilometers (km)) seaward of the western most extremity of Cat

Island (30°13' N, 89°10' W). The southern boundary continues 1 nm (1.9 km) offshore of the barrier islands and offshore of the 72 COLREGS lines at barrier island passes (defined at 33 CFR 80.815 (c), (d) and (e)) to the eastern boundary. Between Cat Island and Ship Island there is no 72 COLREGS line. We therefore, have defined that section of the southern boundary as 1 nm (1.9 km) offshore of a straight line drawn from the southern tip of Cat Island to the western tip of Ship Island. The eastern boundary is the line of longitude 88° 18.8' W from its intersection with the shore (Point aux Pins) to its intersection with the southern boundary. The lateral extent of Unit 8 is the mean (average) high water (MHW) line on each shoreline of the included water bodies or the entrance to rivers, bayous, and creeks.

(ii) Major shipping channels in this unit, as identified on standard navigation charts and marked by buoys, are excluded under section 4(b)(2) of the Act.

(iii) Maps of Unit 8 follow:



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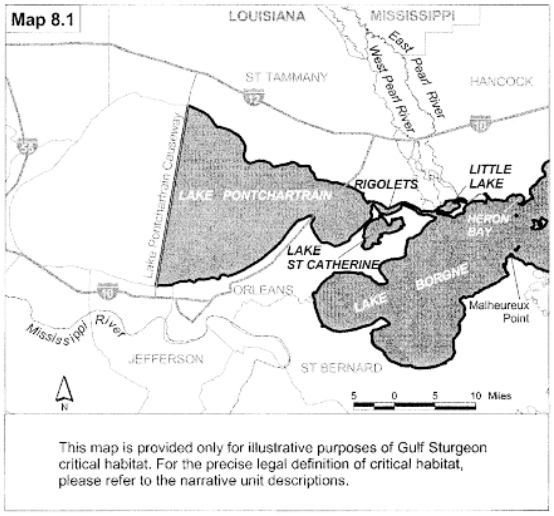

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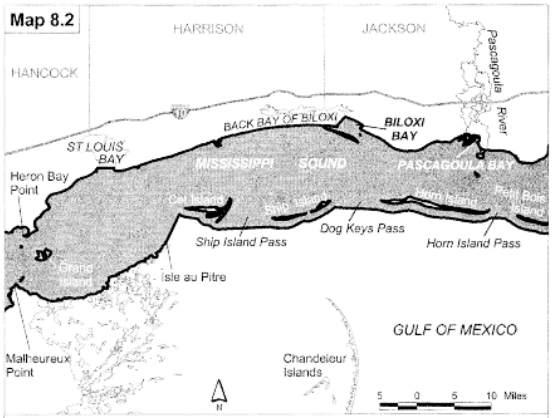

This map is provided only for illustrative purposes of Gulf Sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

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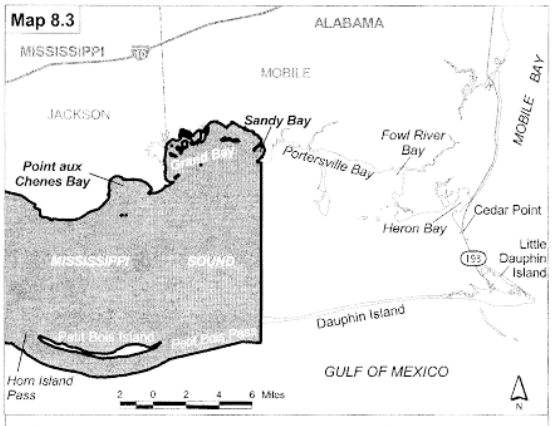

This map is provided only for illustrative purposes of Gulf Sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

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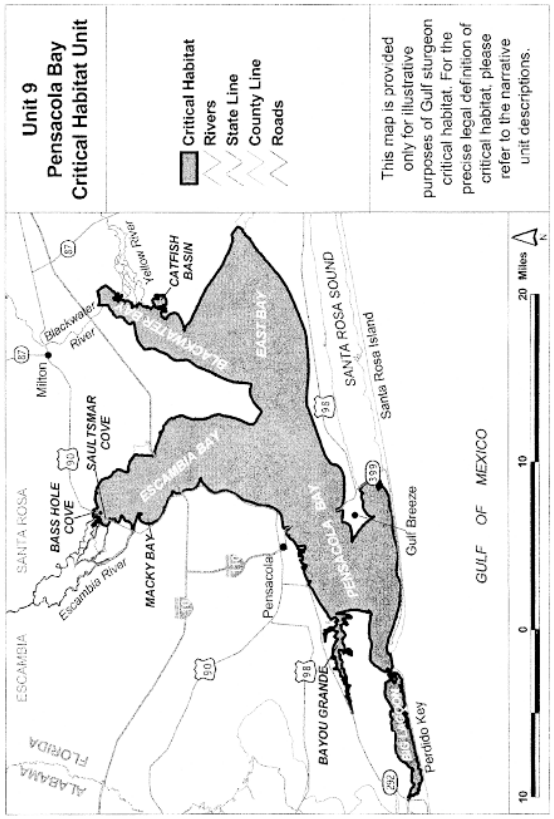
(13) *Unit 9:* Pensacola Bay System in Escambia and Santa Rosa Counties, Florida.

(i) Unit 9 includes Pensacola Bay and its adjacent main bays and coves. These include Big Lagoon, Escambia Bay, East Bay, Blackwater Bay, Bayou Grande, Macky Bay, Saultsmar Cove, Bass Hole Cove, and Catfish Basin. All other bays, bayous, creeks, and rivers are excluded at their mouths. The western boundary is the Florida State Highway 292 Bridge crossing Big Lagoon to Perdido Key. The southern boundary is the 72 COLREGS line between Perdido Key and Santa Rosa Island (defined at 33 CFR 80.810 (g)). The eastern boundary is the Florida State Highway 399 Bridge at Gulf Breeze, Florida. The lateral extent of Unit 9 is the MHW line on each included bay's shoreline.

(ii) Major shipping channels in this unit, as identified on standard navigation charts and marked by buoys, are excluded under section 4(b)(2) of the Act.

(iii) A Map of Unit 9 follows:



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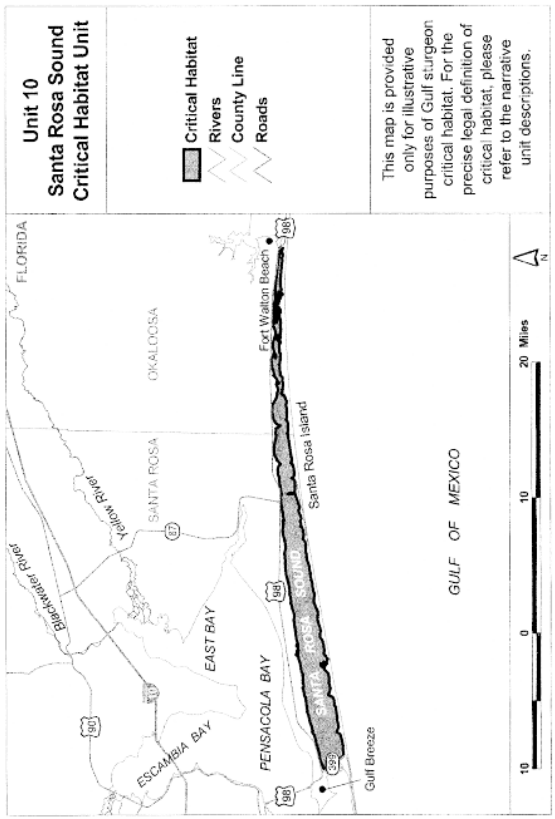
(14) *Unit 10:* Santa Rosa Sound in Escambia, Santa Rosa, and Okaloosa Counties, Florida.

(i) Unit 10 includes the Santa Rosa Sound, bounded on the west by the Florida State Highway 399 bridge in Gulf Breeze, Florida. The eastern boundary is the U.S. Highway 98 bridge in Fort Walton Beach, Florida. The northern and southern boundaries of Unit 10 are formed by the shorelines to the MHW line or by the entrance to rivers, bayous, and creeks.

(ii) A Map of Unit 10 follows:



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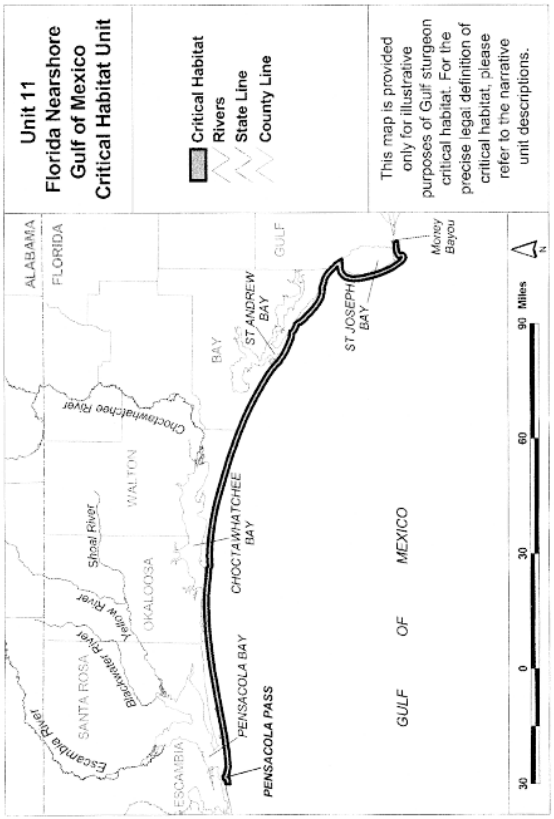
(15) *Unit 11:* Florida Nearshore Gulf of Mexico Unit in Escambia, Santa Rosa, Okaloosa, Walton, Bay, and Gulf Counties in Florida.

(i) Unit 11 includes a portion of the Gulf of Mexico as defined by the following boundaries. The western

boundary is the line of longitude 87°20.0'W (approximately 1 nm (1.9 km) west of Pensacola Pass) from its intersection with the shore to its intersection with the southern boundary. The northern boundary is the MHW of the mainland shoreline and the 72 COLREGS lines at passes as defined at 30 CFR 80.810 (a–g). The southern boundary is 1 nm (1.9 km) offshore of the northern boundary. The eastern boundary is the line of longitude 85°17.0'W from its intersection with the shore (near Money Bayou between Cape San Blas and Indian Peninsula) to its intersection with the southern boundary.

(ii) A Map of Unit 11 follows:



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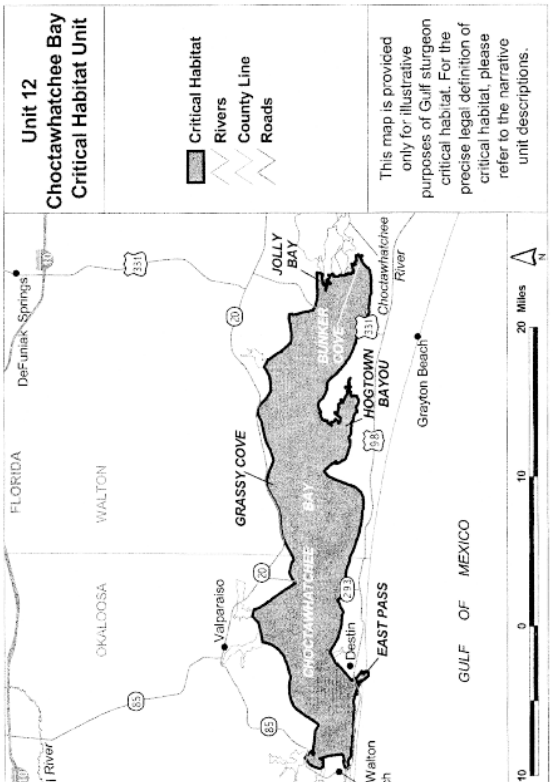
(16) *Unit 12:* Choctawhatchee Bay in Okaloosa and Walton Counties, Florida.

(i) Unit 12 includes the main body of Choctawhatchee Bay, Hogtown Bayou, Jolly Bay, Bunker Cove, and Grassy Cove. All other bayous, creeks, rivers are excluded at their mouths/entrances. The western boundary is the U.S. Highway 98 bridge at Fort Walton Beach, Florida. The southern boundary is the 72 COLREGS line across East (Destin) Pass as defined at 33 CFR 80.810 (f). The lateral extent of Unit 12 is the MHW line on each shoreline of the included water bodies.

(ii) A Map of Unit 12 follows:



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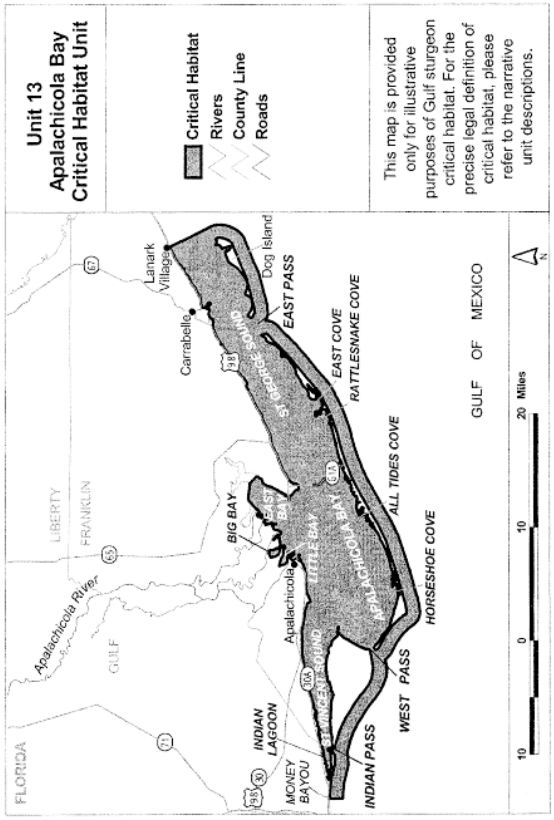
(17) *Unit 13:* Apalachicola Bay in Gulf and Franklin County, Florida.

(i) Unit 13 includes the main body of Apalachicola Bay and its adjacent sounds, bays, and the nearshore waters of the Gulf of Mexico. These consist of St. Vincent Sound, including Indian Lagoon; Apalachicola Bay including Horseshoe Cove and All Tides Cove; East Bay including Little Bay and Big Bay; and St George Sound, including Rattlesnake Cove and East Cove. Barrier Island passes (Indian Pass, West Pass, and East Pass) are also included. Sike's cut is excluded from the lighted buoys on the Gulf of Mexico side to the day boards on the bay side. The southern boundary includes water extending into the Gulf of Mexico 1 nm (1.9 km) from the MHW line of the barrier islands and from 72 COLREGS lines between the barrier islands (defined at 33 CFR 80.805 (e)–(h)). The western boundary is the line of longitude 85°17.0' W from its intersection with the shore (near Money Bayou between Cape San Blas and Indian Peninsula) to its intersection with the southern boundary. The eastern boundary is formed by a straight line drawn from the shoreline of Lanark Village at 29°53.1' N, 84°35.0' W to a point that is 1 nm (1.9 km) offshore from the northeastern extremity of Dog Island at 29°49.6' N, 84°33.2' W. The lateral extent of Unit 13 is the MHW line on each shoreline of the included water bodies or the entrance of excluded rivers, bayous, and creeks.

(ii) A Map of Unit 13 follows:



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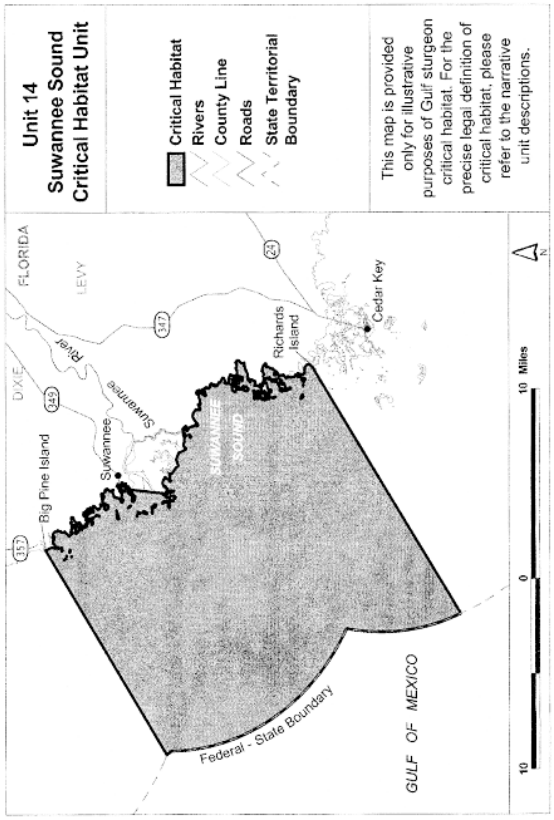
(18) *Unit 14:* Suwannee Sound in Dixie and Levy Counties, Florida.

(i) Unit 14 includes Suwannee Sound and a portion of adjacent Gulf of Mexico waters extending 9 nm from shore (16.7 km) out to the State territorial water boundary. Its northern boundary is formed by a straight line from the northern tip of Big Pine Island (at approximately 29°23' N, 83°12' W) to the Federal-State boundary at 29°17' N, 83°21' W. The southern boundary is formed by a straight line from the southern tip of Richards Island (at approximately 83°04' W, 29°11' N) to the Federal-State boundary at 83°15' W, 29°04' N. The lateral extent of Unit 14 is the MHW line along the shorelines and the mouths of the Suwannee River (East and West Pass), its distributaries, and other rivers, creeks, or water bodies.

(ii) A Map of Unit 14 follows:



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(19)(i) The river reaches within Units 1 to 7 as critical habitat lie within the ordinary high water line. As defined in 33 CFR 32.911, the ordinary high water line on non-tidal rivers is the line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank; shelving; changes in the character of soil; destruction of terrestrial vegetation; the presence of litter and debris; or other appropriate means that consider the characteristics of the surrounding areas.

(ii) The downstream limit of the riverine units is the mouth of each river. The mouth is defined as rkm 0 (rmi 0). Although the interface of fresh and saltwater, referred to as the saltwater wedge, occurs within the lower-most reach of a river, for ease in delineating critical habitat units, we are defining the boundary between the riverine and estuarine units as rkm 0 (rmi 0).

(iii) Regulatory jurisdiction in coastal areas extends to the line on the shore reached by the plane of the mean (average) high water (MHW) (33 CFR 329.12(a)(2)). All bays and estuaries within Units 8 to 14 therefore, lie below the MHW lines. Where precise determination of the actual location becomes necessary, it must be established by survey with reference to the available tidal datum, preferably averaged over a period of 18.6 years. Less precise methods, such as observation of the “apparent shoreline” which is determined by reference to physical markings, lines of vegetation, may be used only where an estimate is needed of the line reached by the mean high water.

(iv) The term 72 COLREGS is defined as demarcation lines which delineate those waters upon which mariners shall comply with the International Regulations for Preventing Collisions at Sea, 1972 and those waters upon which mariners shall comply with the Inland Navigation Rules (33 CFR 80.01). The waters inside of these lines are Inland Rules waters and the waters outside the lines are COLREGS waters. These lines are defined in 33 CFR 80, and have been used for identification purposes to delineate boundary lines of the estuarine and marine habitat Units 8, 9, 11, and 12.

(20) Critical habitat does not include existing developed sites such as dams, piers, marinas, bridges, boat ramps, exposed oil and gas pipelines, oil rigs, and similar structures or designated public swimming areas.

Kootenai River population of white sturgeon (Acipenser transmontanus)

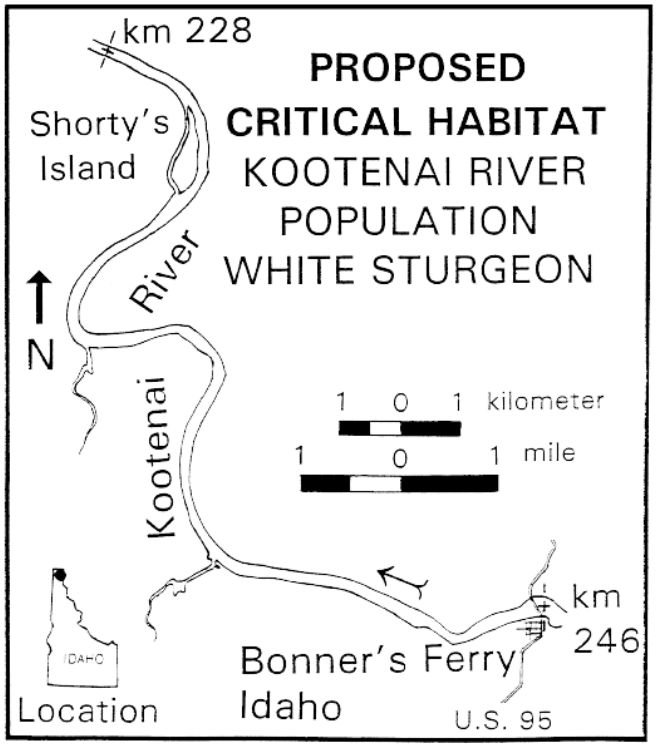
1. Idaho, Boundary County: Kootenai River from river kilometer 228 (river mile 141.4) to river kilometer 246 (river mile 152.6), as indicated on the map below, from ordinary high-water line to opposite bank ordinary high-water line as defined in 33 CFR 329.11.

2. Primary constituent elements include those that are essential for the primary biological needs of normal behavior, water requirements, cover, shelter, breeding, and rearing of offspring. These elements include the following: (1) A flow and hydrologic regime characterized by water magnitude, timing, depth, velocity, and quality (including temperatures) necessary for normal behavior involving breeding site selection, breeding and fertilization, and cover for egg incubation and yolk sac fry development; (2) a flow and hydrologic regime characterized by water of sufficient duration and magnitude to restore or maintain riverbed substrate necessary for cover and shelter for both incubating eggs and yolk sac larvae; (3) a flow and hydrologic regime characterized by flow magnitude, time, velocity, depth, and duration necessary for the normal behavior of adult and juvenile sturgeon; and (4) water and sediment quality necessary for normal behavior, including breeding behavior, and the viability of all life stages, including incubating eggs and yolk sac larvae.

3. Within this area, existing structures, such as highway and railroad bridges, are not included in the critical habitat designation.

Note:

Map follows.



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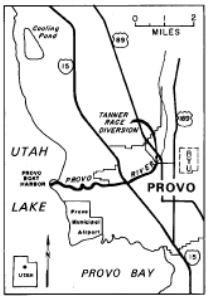
June Sucker (Chasmistes liorus)

Utah, Utah County. Provo River, Sec. 5, T7S, R2E; to Sec. 36, T6S, R2E, the lower 7.8 kilometers (4.9 miles) of the main channel of the river as measured from it confluence with Utah Lake, upstream to the Tanner Race diversion.

Note:

Map follows:



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Known constituent elements of the critical habitat include one to three feet of high quality water constantly flowing over a clean, unsilted gravel substrate. Larval June suckers require shallow areas with low velocities connected to the main channel of the river.

Modoc Sucker (Catostomus microps)

California, Modoc County.

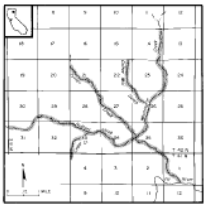
1. Turner Creek. Approximately 4.5 stream miles and 50 feet on either side of the stream channel from the juncture of Turner Creek with the Pit River upstream to T42N, R8E, Section 20; including those areas of the stream channel in T41N, R8E, Sections 1 and 2; and in T42N, R8E, Sections 21, 27, 28, 34, and 35.

2. Washington Creek. Approximately 4 stream miles and 50 feet on either side of the stream channel from the juncture of Washington Creek with Turner Creek to T42N, R8E, Section 11; including those areas of the stream channel in T42N, R8E, Sections 14, 23, 24, 25, 26, and 35. Also Coffee Mill Gulch, a tributary of Washington Creek, for approximately 1.5 miles and 50 feet on either side of the stream channel from the juncture of this tributary with Washington Creek upstream to T42N, R8E, Section 22; including those areas of the stream channel in T42N, R8E, Sections 22, 23, and 26.

3. Hulbert Creek. Approximately 3.5 stream miles and 50 feet on either side of the stream channel from the juncture of Hulbert Creek with Turner Creek upstream to T42N, R8E, Section 31; including those areas of the stream channel in T42N, R8E, Sections 29, 30, 32, 33, 34, and 35; and Cedar Creek, a tributary of Hulbert Creek, for approximately 1.5 stream miles and 50 feet on either side of the stream channel from the juncture of Cedar Creek with Hulbert Creek upstream to Cedar Spring; including those areas of the stream channel in T41N, R8E, Section 4; and in T42N, R8E, Section 33.

Note:

Map follows:



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4. Johnson Creek. Approximately 4 stream miles and 50 feet on either side of the stream channel from the juncture of Johnson Creek with Rush Creek upstream to T40N, R10E, Section 6; including those areas of the stream channel in T40N, R9E, Sections 1, 11, 12, 14, 23, and 24. Also in unnamed tributary of Johnson Creek in Rice Flat, for approximately 1 stream mile and 50 feet on either side of the stream channel from the juncture of this tributary with Johnson Creek upstream to T40N, R9E, Section 10; including those areas of the stream channel in T40N, R9E, Sections 11 and 14. Also in unnamed tributary of Johnson Creek in Higgins Flat, for approximately 1 stream mile and 50 feet on either side of the stream channel from the juncture of this tributary with Johnson Creek upstream to T40N, R9E, Section 10; including those areas of the stream channel in T40N, R9E, Sections 14 and 15.

5. Rush Creek. Approximately 5 stream miles and 50 feet on either side of the stream channel from the gauging station at the State Route 299 crossing upstream to T40N, R10E, Section 16; including those areas of the stream channel in T40N, R9E, Sections 24, 25, 26, 35, and 36; and in T40N, R10E, Sections 17, 18, and 19.

Note:

Map follows:

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Known constituent elements include intermittent and permanent-water creeks, and adjacent land areas that provide vegetation for cover and protection from soil erosion.

Razorback Sucker (Xyrauchen texanus)

Description of areas taken from BLM 1:100,000 scale maps (available from BLM State Offices): Rangely, CO 1989; Canyon of Lodore, CO 1990; Seep Ridge, UT/CO 1982; La Sal, UT/CO 1985; Westwater, UT/CO 1981; Hite Crossing, UT 1982; Glenwood Springs, CO 1988; Grand Junction, CO 1990; Delta, CO 1989; Navajo Mountain, UT/AZ 1982; Vernal, UT/CO 1990; Craig, CO 1990; Bluff, UT/CO 1985; Moab, UT/CO 1985; Hanksville, UT 1982; San Rafael Desert, UT 1985; Huntington, UT 1982; Price, UT 1989; Tuba City, AZ 1983; Lake Mead, NV/AZ 1981; Davis Dam, AZ/NV/CA 1982; Parker, AZ/CA 1980; Yuma, AZ/CA 1988; Safford, AZ 1991; Globe, AZ 1980; Clifton, AZ/NM 1975; Prescott, AZ 1982; Theodore Roosevelt Lake, AZ 1982; Grand Canyon, AZ 1980; Mt. Trumbull, AZ 1979; Boulder City, NV/AZ 1978; Blythe, CA/AZ 1976; Trigo Mountains, AZ/CA 1988; Sedona, AZ 1982; Payson, AZ 1988; and U.S. Forest Service map: Tonto National Forest, Phoenix, AZ. The 100-year flood plain for many areas is detailed in Flood Insurance Rate Maps (FIRM) published by and available through the FEMA. In areas where a FIRM is not available, the presence of alluvium soils or known high water marks can be used to determine the extent of the flood plain. Only areas of flood plain containing constituent elements are considered critical habitat.

Colorado: Moffat County. The Yampa River and its 100-year flood plain from the mouth of Cross Mountain Canyon in T.6N., R.98W., sec. 23 (6th Principal Meridian) to the confluence with the Green River in T.7N., R.103W., sec. 28 (6th Principal Meridian).

Utah: Uintah County; and Colorado: Moffat County. The Green River and its 100-year flood plain from the confluence with the Yampa River in T.7N., R.103W., sec. 28 (6th Principal Meridian) to Sand Wash in T.11S., R.18E., sec. 20 (6th Principal Meridian).

Utah: Uintah, Carbon, Grand, Emery, Wayne, and San Juan Counties. The Green River and its 100-year flood plain from Sand Wash at T.11S., R.18E., sec. 20 (6th Principal Meridian) to the confluence with the Colorado River in T.30S., R.19E., sec. 7 (6th Principal Meridian).

Utah: Uintah County. The White River and its 100-year flood plain from the boundary of the Uintah and Ouray Indian Reservation at river mile 18 in T.9S., R.22E., sec. 21 (Salt Lake Meridian) to the confluence with the Green River in T.9S., R.20E., sec. 4 (Salt Lake Meridian).

Utah: Uintah County. The Duchesne River and its 100-year flood plain from river mile 2.5 in T.4S., R.3E., sec. 30 (Salt Lake Meridian) to the confluence with the Green River in T.5S., R.3E., sec. 5 (Uintah Meridian).

Colorado: Delta and Mesa Counties. The Gunnison River and its 100-year flood plain from the confluence with the Uncompahgre River in T.15S., R.96W., sec. 11 (6th Principal Meridian) to Redlands Diversion Dam in T.1S., R.1W., sec. 27 (Ute Meridian).

Colorado: Mesa and Garfield Counties. The Colorado River and its 100-year flood plain from Colorado River Bridge at exit 90 north off Interstate 70 in T.6S., R.93W., sec. 16 (6th Principal Meridian) to Westwater Canyon in T.20S., R.25E., sec. 12 (Salt Lake Meridian) including the Gunnison River and its 100-year flood plain from the Redlands Diversion Dam in T.1S., R.1W., sec. 27 (Ute Meridian) to the confluence with the Colorado River in T.1S., R.1W., sec. 22 (Ute Meridian).

Utah: Grand, San Juan, Wayne, and Garfield Counties. The Colorado River and its 100-year flood plain from Westwater Canyon in T.20S., R.25E., sec. 12 (Salt Lake Meridian) to full pool elevation, upstream of

North Wash and including the Dirty Devil arm of Lake Powell in T.33S., R.14E., sec. 29 (Salt Lake Meridian).

New Mexico: San Juan County; and Utah: San Juan County. The San Juan River and its 100-year flood plain from the Hogback Diversion in T.29N., R.16W., sec. 9 (New Mexico Meridian) to the full pool elevation at the mouth of Neskahai Canyon on the San Juan arm of Lake Powell in T.41S., R.11E., sec. 26 (Salt Lake Meridian).

Arizona: Coconino and Mohave Counties; and Nevada: Clark County. The Colorado River and its 100-year flood plain from the confluence with the Paria River in T.40N., R.7E., sec. 24 (Gila and Salt River Meridian) to Hoover Dam in T.30N., R.23W., sec. 3 (Gila and Salt River Meridian) including Lake Mead to the full pool elevation.

Arizona: Mohave County; and Nevada: Clark County. The Colorado River and its 100-year flood plain from Hoover Dam in T.30N., R.23W., sec. 1 (Gila and Salt River Meridian) to Davis Dam in T.21N., R.21W., sec. 18 (Gila and Salt River Meridian) including Lake Mohave to the full pool elevation.

Arizona: La Paz and Yuma Counties; and California: San Bernardino, Riverside, and Imperial Counties. The Colorado River and its 100-year flood plain from Parker Dam in T.11N., R.18W., sec. 16 (Gila and Salt River Meridian) to Imperial Dam in T.6S., R.22W., sec. 25 (Gila and Salt River Meridian) including Imperial Reservoir to the full pool elevation or 100-year flood plain, whichever is greater.

Arizona: Graham, Greenlee, Gila, and Pinal Counties. The Gila River and its 100-year flood plain from the Arizona-New Mexico border in T.8S., R.32E., sec. 34 (Gila and Salt River Meridian) to Coolidge Dam in T.3S., R.18E., sec. 17 (Gila and Salt River Meridian), including San Carlos Reservoir to the full pool elevation.

Arizona: Gila County. The Salt River and its 100-year flood plain from the old U.S. Highway 60/State Route 77 bridge (unsurveyed) to Roosevelt Diversion Dam in T.3N., R.14E., sec. 4 (Gila and Salt River Meridian).

Arizona: Yavapai County. The Verde River and its 100-year flood plain from the U.S. Forest Service boundary (Prescott National Forest) in T.18N., R.2E., sec. 31 to Horseshoe Dam in T.7N., R.6E., sec. 2 (Gila and Salt River Meridian), including Horseshoe Lake to the full pool elevation.

Known constituent elements include water, physical habitat, and biological environment as required for each particular life stage for each species.

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Santa Ana Sucker (Catostomus santaanae)

(1) Critical habitat units are depicted for Los Angeles and San Bernardino Counties, California, on the maps and as described below.

(2) Primary constituent elements essential for the conservation of the Santa Ana sucker are found in an ecosystem that includes a functioning hydrological system that experiences peaks and ebbs in water volume and maintains a sand, gravel, and cobble substrate in a mosaic of sandy stream margins, deep water pools, riffles (*i.e.*, well-oxygenated, shallow water over rough substrate), and runs (*i.e.*, shallow water over generally smooth substrate); sufficient water volume and quality; and complex, native floral and faunal associations. The primary constituent elements for the sucker are the following:

(i) A functioning hydrological system that experiences peaks and ebbs in the water volume throughout the year;

(ii) A mosaic of sand, gravel, cobble, and boulder substrates in a series of riffles, runs, pools and shallow sandy stream margins;

(iii) Water depths greater than 3 cm and bottom water velocities greater than 0.03 meter per second;

(iv) Non-turbid conditions or only seasonally turbid conditions;

(v) Water temperatures less than 30 °C; and

(vi) Stream habitat that includes algae, aquatic emergent vegetation, macroinvertebrates, and riparian vegetation.

(3) The textual unit descriptions below are the definitive source for determining critical habitat boundaries. General location maps by unit are provided at the end of each unit description and are provided for general guidance purposes only, and not as a definitive source for determining critical habitat boundaries.

(4) *Unit 1:* Santa Ana River system in San Bernardino County, California

(i) Unit 1 includes two subunits: Unit 1A, Northern Prado Basin and Unit 1B, Santa Ana Wash. Unit 1A, Northern Prado Basin includes Chino Creek and Cucamonga Creek. Unit 1B, Santa Ana Wash includes portions of the mainstem of the Santa Ana River from La Cadena Avenue Bridge to the downstream edge of Seven Oaks Dam and the tributaries of City Creek and Mill Creek. The lateral extent of Unit 1 is defined by the UTM coordinates described in the legal description.

Unit 1: Santa Ana River, San Bernardino County, California.

Unit 1A: Northern Prado Basin. From USGS 1:24,000 quadrangle maps Corona North and Prado Dam, California, land bounded by the following UTM 11 NAD 27 coordinates (E, N): 436200, 3759600; 436300, 3759600; 436300, 3759500; 436400, 3759500; 436400, 3759400; 436500, 3759400; 436500, 3759300; 436600, 3759300; 436600, 3759200; 436700, 3759200; 436700, 3759100; 436800, 3759100; 436800,

3759000; 436900, 3759000; 436900, 3758800; 437000, 3758800; 437000, 3758700; 437100, 3758700; 437100, 3758600; 437200, 3758600; 437200, 3758400; 437300, 3758400; 437300, 3758300; 437600, 3758300; 437600, 3758200; 437700, 3758200; 437700, 3758000; 437800, 3758000; 437800, 3757900; 437900, 3757900; 437900, 3757700; 438400, 3757700; 438400, 3757500; 438300, 3757500; 438300, 3757400; 438200, 3757400; 438200, 3757300; 438300, 3757300; 438300, 3757200; 438200, 3757200; 438200, 3757000; 438300, 3757000; 438300, 3756900; 438400, 3756900; 438400, 3756800; 438500, 3756800; 438500, 3756700; 438600, 3756700; 438600, 3756600; 438700, 3756600; 438700, 3756500; 438600, 3756500; 438600, 3756400; 438700, 3756400; 438700, 3756300; 439000, 3756300; 439000, 3756200; 439100, 3756200; 439100, 3756100; 439200, 3756100; 439200, 3756200; 439600, 3756200; 439600, 3755800; 439700, 3755800; 439700, 3756100; 439800, 3756100; 439800, 3756200; 440000, 3756200; 440000, 3756400; 440100, 3756400; 440100, 3756500; 440300, 3756500; 440300, 3756400; 440200, 3756400; 440200, 3756200; 440300, 3756200; 440300, 3755900; 440400, 3755900; 440400, 3756100; 440600, 3756100; 440600, 3756000; 440700, 3756000; 440700, 3755900; 440800, 3755900; 440800, 3755600; 440700, 3755600; 440700, 3755500; 440800, 3755500; 440800, 3755400; 441000, 3755400; 441000, 3755500; 441500, 3755500; 441500, 3755800; 442500, 3755800; 442500, 3755900; 442700, 3755900; 442700, 3756200; 442900, 3756200; 442900, 3756300; 443000, 3756300; 443000, 3756400; 443500, 3756400; 443500, 3756500; thence east to the San Bernardino/Riverside County boundary at y-coordinate 3756500; thence south along the San Bernardino/Riverside County boundary to y-coordinate 3756200; thence west following coordinates: 443500, 3756200; 443500, 3756100; 443300, 3756100; 443300, 3756000; 443200, 3756000; 443200, 3755800; 443100, 3755800; 443100, 3755700; 443000, 3755700; 443000, 3755600; 442900, 3755600; 442900, 3755500; 442800, 3755500; 442800, 3755400; 442900, 3755400; 442900, 3755100; 443000, 3755100; 443000, 3755000; 442900, 3755000; 442900, 3754800; 442800, 3754800; 442800, 3754600; 443100, 3754600; 443100, 3754900; 443200, 3754900; 443200, 3755000; 443600, 3755000; 443600, 3755300; thence east to the San Bernardino/Riverside County boundary at y-coordinate 3755300; thence south along the San Bernardino/Riverside County boundary to y-coordinate 3754500; thence west following coordinates: 443300, 3754500; 443300, 3754400; 442900, 3754400; 442900, 3754300; 442800, 3754300; 442800, 3754000; 442700, 3754000; 442700, 3753900; 442600, 3753900; 442600, 3754000; 442500, 3754000; 442500, 3753800; 442400, 3753800; thence south to the San Bernardino/Riverside County boundary at x-coordinate 442400; thence west and south along the San Bernardino/Riverside County boundary to y-coordinate 3753600; thence west following coordinates: 439500, 3753600; 439500, 3753800; 439400, 3753800; 439400, 3754000; 439300, 3754000; 439300, 3754200; 439200, 3754200; 439200, 3754400; 439100, 3754400; 439100, 3754500; 439000, 3754500; 439000, 3754700; 438900, 3754700; 438900, 3754800; 438800, 3754800; 438800, 3754900; 438700, 3754900; 438700, 3755100; 438600, 3755100; 438600, 3755200; 438500, 3755200; 438500, 3755300; 438400, 3755300; 438400, 3755400; 438300, 3755400; 438300, 3755600; 438200, 3755600; 438200, 3755700; 438100, 3755700; 438100, 3755800; 438000, 3755800; 438000, 3756000; 437900, 3756000; 437900, 3756100; 437800, 3756100; 437800, 3756300; 437700, 3756300; 437700, 3756500; 437600, 3756500; 437600, 3756700; 437500, 3756700; 437500, 3756800; 437400, 3756800; 437400, 3757000; 437300, 3757000; 437300, 3757200; 437200, 3757200; 437200, 3757300; 437100, 3757300; 437100, 3757500; 437400, 3757500; 437400, 3757400; 437500, 3757400; 437500, 3757500; 437600, 3757500; 437600, 3757600; 437500, 3757600; 437500, 3757800; 437400, 3757800; 437400, 3757900; 437300, 3757900; 437300, 3758000; 437200, 3758000; 437200, 3758100; 437100, 3758100; 437100, 3758200; 437000, 3758200; 437000, 3758400; 436900, 3758400; 436900, 3758500; 436800, 3758500; 436800, 3758700; 436700, 3758700; 436700, 3758800; 436600, 3758800; 436600, 3758900; 436500, 3758900; 436500, 3759100; 436400, 3759100; 436400, 3759200; 436300, 3759200; 436300, 3759400; 436200, 3759400; returning to 436200, 3759600.

Unit 1B: Santa Ana Wash. From USGS 1:24,000 quadrangle maps Forest Falls, Harrison Mountain, Redlands, San Bernardino South, and Yucaipa, California, land bounded by the following UTM 11 NAD 27 coordinates (E, N): 482700, 3783600; 482700, 3783500; 482900, 3783500; 482900, 3783400; 483100, 3783400; 483100, 3783300; 483300, 3783300; 483300, 3783200; 483400, 3783200; 483400, 3782700; 483100, 3782700; 483100, 3782600; 483200, 3782600; 483200, 3782500; 483100, 3782500; 483100, 3782100; 483200, 3782100; 483200, 3782000; 483600, 3782000; 483600, 3781800; 483400, 3781800; 483400, 3781200; 483500, 3781200; 483500, 3781000; 483600, 3781000; 483600, 3780900; 483500, 3780900; 483500, 3780600; 483400, 3780600; 483400, 3780500; 483500, 3780500; 483500, 3780200; 483400, 3780200; 483400, 3780000; 483300, 3780000; 483300, 3779800; 483400, 3779800; 483400, 3779600; 483300, 3779600; 483300, 3779000; 483100, 3779000; 483100, 3778900; 483000, 3778900; 483000, 3778700; 482900, 3778700; 482900, 3778000; 482800, 3778000; 482800, 3777800; 482900, 3777800; 482900, 3777600; 482800, 3777600; 482800, 3777400; 482700, 3777400; 482700, 3777000; 482600, 3777000; 482600, 3776500; 482700, 3776500; 482700, 3775500; 482600, 3775500; 482600, 3775300; 482500, 3775300; 482500, 3774800; 482600, 3774800; 482600, 3774600; 482700, 3774600; 482700, 3774500; 482800, 3774500; 482800, 3774300; 482900, 3774300; 482900, 3774200; 483000, 3774200; 483000, 3774100; 483100, 3774100; 483100, 3773900; 483200, 3773900; 483200, 3773800; 484700, 3773800; 484700, 3774200; 486300, 3774200; 486300, 3774300; 486600, 3774300; 486600, 3774400; 486800, 3774400; 486800, 3774500; 487100, 3774500; 487100, 3774600; 487200, 3774600; 487200, 3774400; 487100, 3774400; 487100, 3774000; 487200, 3774000; 487200, 3773900; 487300, 3773900; 487300, 3772700; 488100, 3772700; 488100, 3772600; 488200, 3772600; 488200, 3772700; 488500, 3772700; 488500, 3772500; 489000, 3772500; 489000, 3772700; 489100, 3772700; 489100, 3772800; 489200, 3772800; 489200, 3773000; 489400, 3773000; 489400, 3773100; 489800, 3773100; 489800, 3773200; 490400, 3773200; 490400, 3773000; 490300, 3773000; 490300, 3772800; 490200, 3772800; 490200, 3772700; 490100, 3772700; 490100, 3772500; 490000, 3772500; 490000, 3772300; 489900, 3772300; 489900, 3772200; 489800, 3772200; 489800, 3772000; 489700, 3772000; 489700, 3771600; 489800, 3771600; 489800, 3771500; 489900, 3771500; 489900, 3771400; 490000, 3771400; 490000, 3771300; 490200, 3771300; 490200, 3771200; 490300, 3771200; 490300, 3771100; 490500, 3771100; 490500, 3771000; 490700, 3771000; 490700, 3770900; 490900, 3770900; 490900, 3770800; 491000, 3770800; 491000, 3770700; 491100, 3770700; 491100, 3770600; 493200, 3770600; 493200, 3770700; 493400, 3770700; 493400, 3770800; 493500, 3770800; 493500, 3770900; 493800, 3770900; 493800, 3771000; 494200, 3771000; 494200, 3771100; 494500, 3771100; 494500, 3771200; 494600, 3771200; 494600, 3771300; 494700, 3771300; 494700, 3771400; 494900, 3771400; 494900, 3771500; 495000, 3771500; 495000, 3771600; 495200, 3771600; 495200, 3771700; 495500, 3771700; 495500, 3771800; 495800, 3771800; 495800, 3771900; 496200, 3771900; 496200, 3772000; 496400, 3772000; 496400, 3772100; 496700, 3772100; 496700, 3772200; 496800, 3772200; 496800, 3772300; 496900, 3772300; 496900, 3772500; 497000, 3772500; 497000, 3772600; 497100, 3772600; 497100, 3772700; 497400, 3772700; 497400, 3772800; 497500, 3772800; 497500, 3773000; 497600, 3773000; 497600, 3773100; 497700, 3773100; 497700, 3773200; 497900, 3773200; 497900, 3773300; 498200, 3773300; 498200, 3773400; 498400, 3773400; 498400, 3773500; 498700, 3773500; 498700, 3773600; 498800, 3773600; 498800, 3773500; 499300, 3773500; 499300, 3773300; 499500, 3773300; 499500, 3773200; 499900, 3773200; 499900, 3773100; 500200, 3773100; 500200, 3773000; 501000, 3773000; 501000, 3773100; 501200, 3773100; 501200, 3773000; 501600, 3773000; 501600, 3772900; 502400, 3772900; 502400, 3772800; 503100, 3772800; 503100, 3772700; 503700, 3772700; 503700, 3772600; 504100, 3772600; 504100, 3772700; 504600, 3772700; 504600, 3772600; 505100, 3772600; 505100, 3772500; 505400, 3772500; 505400, 3772400; 505500, 3772400; 505500, 3772300; 505700, 3772300; 505700, 3772200; 505800, 3772200; 505800, 3772100; 505900, 3772100; 505900, 3771900; 505500, 3771900; 505500, 3772000; 505300, 3772000; 505300, 3772100; 505100, 3772100; 505100, 3772200; 504800, 3772200; 504800, 3772300; 504000, 3772300; 504000, 3772400; 503800, 3772400; 503800, 3772300; 503700, 3772300; 503700, 3772400; 503500, 3772400; 503500, 3772300; 503300, 3772300; 503300, 3772200; 502600, 3772200; 502600, 3772300; 502300, 3772300; 502300, 3772400; 501400, 3772400;

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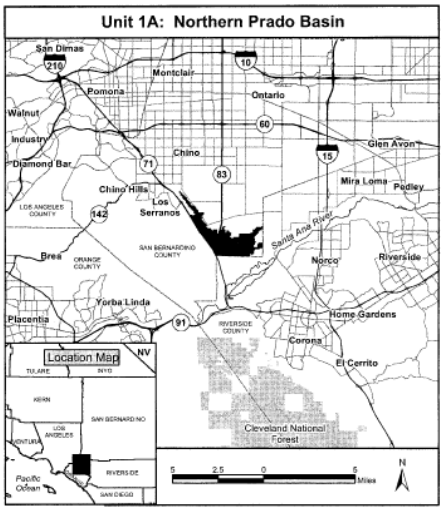
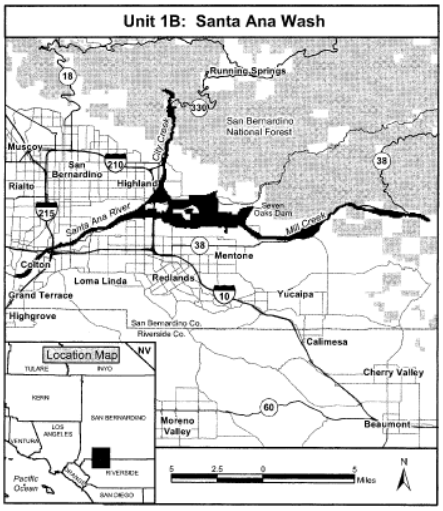
483300, 3772900.

(ii) Maps of Unit 1 follow:



View or download PDF



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(5) *Unit 2:* San Gabriel River system in Los Angeles County, California.

(i) Unit 2 includes the West, North and East Forks of the San Gabriel River and the following tributaries from source to confluence: Cattle Canyon Creek, Bear Creek, and Big Mermaids Canyon Creek. The San Gabriel River portion of the unit extends from the Cogswell Dam on the West Fork to the Bridge-of-No Return on the East Fork, and portions of the North Fork. The lateral extent of Unit 2 is defined by the UTM coordinates described in the legal description.

Unit 2: San Gabriel River. Los Angeles County, California. From USGS 1:24,000 quadrangle maps Azusa, Crystal Lake, Glendora, Mount Baldy, Mount San Antonio, and Waterman Mountain, California, land bounded by the following UTM 11 NAD 27 coordinates (E, N): 422700, 3795100; 423300, 3795100; 423300, 3795000; 423400, 3795000; 423400, 3794400; 423300, 3794400; 423300, 3794300; 423200, 3794300; 423200, 3794200; 423100, 3794200; 423100, 3794000; 423000, 3794000; 423000, 3793400; 422900, 3793400; 422900, 3793300; 422800, 3793300; 422800, 3793200; 422700, 3793200; 422700, 3793100; 422600, 3793100; 422600, 3792900; 422500, 3792900; 422500, 3792800; 422400, 3792800; 422400, 3792100; 422500, 3792100; 422500, 3791800; 422700, 3791800; 422700, 3791900; 422900, 3791900; 422900, 3792000; 423100, 3792000; 423100, 3792100; 423800, 3792100; 423800, 3792200; 424500, 3792200; 424500, 3791900; 424300, 3791900; 424300, 3791800; 424000, 3791800; 424000, 3791700; 423900, 3791700; 423900, 3791600; 423400, 3791600; 423400, 3791700; 423200, 3791700; 423200, 3791600; 423000, 3791600; 423000, 3791500; 422900, 3791500; 422900, 3791400; 422700, 3791400; 422700, 3791300; 422600, 3791300; 422600, 3791200; 422500, 3791200; 422500, 3791100; 422400, 3791100; 422400, 3791000; 421700, 3791000; 421700, 3790900; 421600, 3790900; 421600, 3790800; 421500, 3790800; 421500, 3790700; 421400, 3790700; 421400, 3790600; 421300, 3790600; 421300, 3790200; 421200, 3790200; 421200, 3790100; 421100, 3790100; 421100, 3789900; 420800, 3789900; 420800, 3789800; 420700, 3789800; 420700, 3789700; 420600, 3789700; 420600, 3789600; 420500, 3789600; 420500, 3789500; 420700, 3789500; 420700, 3789400; 420800, 3789400; 420800, 3789000; 420900, 3789000; 420900, 3789100; 421100, 3789100; 421100, 3789200; 421200, 3789200; 421200, 3789300; 421700, 3789300; 421700, 3789200; 421800, 3789200; 421800, 3789100; 421900, 3789100; 421900, 3788900; 422000, 3788900; 422000, 3788800; 422200, 3788800; 422200, 3788700; 422400, 3788700; 422400, 3788500; 422500, 3788500; 422500, 3788600; 422600, 3788600; 422600, 3788700; 422500, 3788700; 422500, 3789400; 422600, 3789400; 422600, 3789600; 422800, 3789600; 422800, 3789400; 422900, 3789400; 422900, 3789300; 422800, 3789300; 422800, 3789200; 422700, 3789200; 422700, 3788800; 422800, 3788800; 422800, 3788700; 422900, 3788700; 422900, 3788800; 423100, 3788800; 423100, 3788900; 423300, 3788900; 423300, 3788800; 424000, 3788800; 424000, 3788900; 424100, 3788900; 424100, 3789000; 424600, 3789000; 424600, 3788900; 424700, 3788900; 424700, 3788700; 424800, 3788700; 424800, 3788600; 425000, 3788600; 425000, 3788700; 425500, 3788700; 425500, 3788600; 425800, 3788600; 425800, 3788500; 426100, 3788500; 426100, 3788300; 426400, 3788300; 426400, 3788200; 426800, 3788200; 426800, 3788300; 427000, 3788300; 427000,

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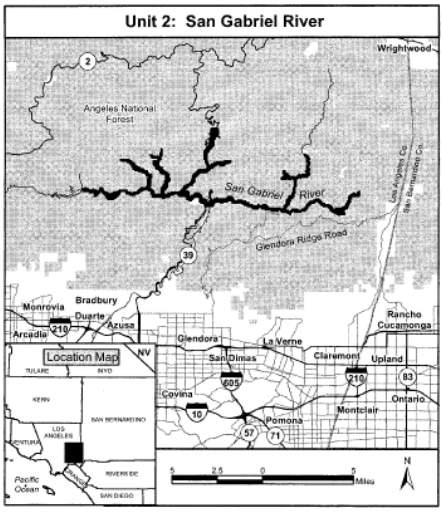
(ii) The map of Unit 2 follows:



View or download PDF

(6) *Unit 3:* Big Tujunga Creek system in Los Angeles County, California

(i) Unit 3 includes the stretch of Big Tujunga Creek between the Big Tujunga Dam and Hansen Dam and the following tributaries: Stone Canyon Creek, Delta Canyon Creek, Gold Canyon Creek, and Little Tujunga Creek. The lateral extent of Unit 3 is defined by the UTM coordinates described in the legal description.

Unit 3: Big Tujunga Creek. Los Angeles County, California. From USGS 1:24,000 quagrangle maps Condor Peak, San Fernando, and Sunland, California, land bounded by the following UTM 11 NAD 27 coordinates (E, N): 381800, 3797700; 382100, 3797700; 382100, 3797600; 382300, 3797600; 382300, 3797500; 382400, 3797500; 382400, 3797400; 382700, 3797400; 382700, 3797300; 382800, 3797300; 382800, 3797200; 383000, 3797200; 383000, 3797100; 383100, 3797100; 383100, 3797000; 383300, 3797000; 383300, 3796500; 383400, 3796500; 383400, 3796300; 383300, 3796300; 383300, 3796200; 383200, 3796200; 383200, 3796100; 383600, 3796100; 383600, 3796300; 383700, 3796300; 383700, 3796500; 384300, 3796500; 384300, 3796400; 384400, 3796400; 384400, 3796300; 384600, 3796300; 384600, 3796200; 384900, 3796200; 384900, 3796100; 385000, 3796100; 385000, 3796000; 385100, 3796000; 385100, 3795900; 385200, 3795900; 385200, 3795800; 385300, 3795800; 385300, 3795700; 385900, 3795700; 385900, 3795600; 386100, 3795600; 386100, 3795500; 386200, 3795500; 386200, 3795400; 386300, 3795400; 386300, 3795300; 386500, 3795300; 386500, 3795200; 386600, 3795200; 386600, 3795100; 386700, 3795100; 386700, 3794900; 386800, 3794900; 386800, 3794800; 386900, 3794800; 386900, 3794700; 387000, 3794700; 387000, 3794600; 387100, 3794600; 387100, 3794500; 387200, 3794500; 387200, 3794400; 387600, 3794400; 387600, 3794300; 387700, 3794300; 387700, 3794200; 387800, 3794200; 387800, 3793800; 387900, 3793800; 387900, 3793900; 388000, 3793900; 388000, 3793800; 388100, 3793800; 388100, 3793600; 388600, 3793600; 388600, 3793700; 388800, 3793700; 388800, 3793800; 389100, 3793800; 389100, 3793700; 389300, 3793700; 389300, 3793800; 389400, 3793800; 389400, 3793900; 389600, 3793900; 389600, 3794000; 389700, 3794000; 389700, 3794100; 389800, 3794100; 389800, 3794200; 389900, 3794200; 389900, 3794300; 390000, 3794300; 390000, 3794700; 390100, 3794700; 390100, 3794900; 390200, 3794900; 390200, 3795000; 390400, 3795000; 390400, 3795100; 390500, 3795100; 390500, 3795200; 390700, 3795200; 390700, 3795300; 390800, 3795300; 390800, 3795200; 390900, 3795200; 390900, 3795100; 390800, 3795100; 390800, 3795000; 390700, 3795000; 390700, 3794800; 390600, 3794800; 390600, 3794700; 390400, 3794700; 390400, 3794600; 390300, 3794600; 390300, 3794300; 390200, 3794300; 390200, 3794200; 390100, 3794200; 390100, 3794100; 390000, 3794100; 390000, 3793900; 389900, 3793900; 389900, 3793800; 389800, 3793800; 389800, 3793700; 389600, 3793700; 389600, 3793600; 389500, 3793600; 389500, 3793500; 389400, 3793500; 389400, 3793400; 389200, 3793400; 389200, 3793300; 389000, 3793300; 389000, 3793500; 388900, 3793500; 388900, 3793400; 388800, 3793400; 388800, 3793300; 388700, 3793300; 388700, 3793200; 388300, 3793200; 388300, 3793100; 388000, 3793100; 388000, 3793200; 387900, 3793200; 387900, 3793500; 387800, 3793500; 387800, 3793400; 387600, 3793400; 387600, 3793700; 387500, 3793700; 387500, 3794000; 387200, 3794000; 387200, 3794100; 387100, 3794100; 387100, 3794200; 387000, 3794200; 387000, 3794300; 386800, 3794300; 386800, 3794500; 386500, 3794500; 386500, 3794600; 386400, 3794600; 386400, 3794800; 386300, 3794800; 386300, 3794700; 386200, 3794700; 386200, 3794400; 386100, 3794400; 386100, 3794300; 385900, 3794300; 385900, 3794200; 385800, 3794200; 385800, 3794000; 385600, 3794000; 385600, 3794300; 385700, 3794300; 385700, 3794400; 385800, 3794400; 385800, 3794500; 386000, 3794500; 386000, 3795000; 385800, 3795000; 385800, 3795100; 385700, 3795100; 385700, 3795200; 385600, 3795200; 385600, 3795300; 385500, 3795300; 385500, 3795500; 385100, 3795500; 385100, 3795600; 385000, 3795600; 385000, 3795700;

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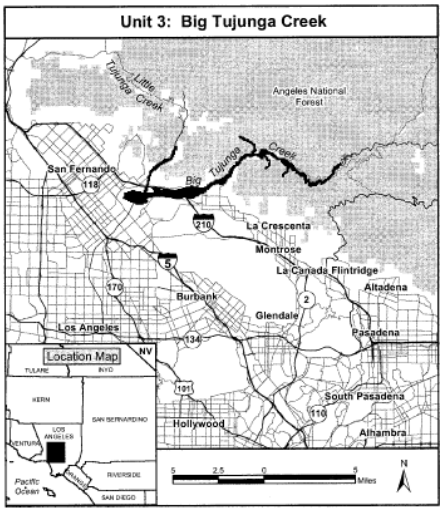
(ii) The map of Unit 3 follows:



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(7) Lands located within the exterior boundaries of the critical habitat designation that are not considered critical habitat and are therefore excluded by definition include: existing paved roads; bridges; parking lots; railroad tracks; railroad trestles; and residential, commercial, and industrial developments.

Warner Sucker (Catostomus warnerensis)

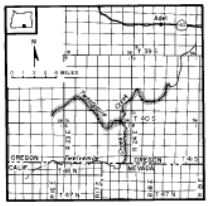
Oregon: Lake County.

1. *Twelvemile Creek*—Approximately 4 stream miles and 50 feet on either side of the stream commencing at the confluence of Twelvemile Creek and Twentymile Creek and extending upstream, and including those portions of Twelvemile Creek in T40S, R23E, Section 35; and T41S, R23E, Sections 1, 2, 12, 13, 23, and 24.

2. *Twentymile Creek*—Approximately 18 stream miles and 50 feet on either side of the stream commencing about 9 miles upstream of the junction of Twelvemile and Twentymile Creeks and extending to a point about 9 miles downstream of the junction, and including those portions of Twentymile Creek in T40S, R22E, Sections 25, 35, and 36; T40S, R23E, Sections 19, 20, 24, 25, 28, 29, 30, 33, 34, 35 and 36; T40S, R24E, Sections 15, 16, 19, 20, 21, 22, 28, 29, 30; and T41S, R23E, Sections 2 and 3.

Note:

Map follows:



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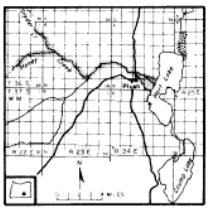
3. *Spillway Canal north of Hart Lake*—Approximately 2 stream miles and 50 feet on either side of the waterway commencing at its confluence with Hart Lake and extending to a point about 2 miles downstream, and including those portions of the waterway in T36S, R24E, Sections 7, 18, and 19.

4. *Snyder Creek*—Approximately 3 stream miles and 50 feet on either side of the stream commencing at the confluence of Snyder Creek and Honey Creek and extending to a point about 3 miles upstream on Snyder Creek, and including those portions of Snyder Creek in T36S, R22E, Sections 1 and 12; and T36S, R23E, Sections 7, 17, and 18.

5. *Honey Creek*—Approximately 16 stream miles and 50 feet on either side of the stream commencing at the confluence of Honey Creek with Hart Lake and extending to a point about 16 miles upstream on Honey Creek, and including those portions of Honey Creek in T36S, R24E, Sections 19, 20, 27, 28, 29, 30, 33, 34, and 35; T36S, R23E, Sections 17, 18, 20, 21, 22, 23, 24, 26, 27, and 28; and T36S, R22E, Sections 13, 14, 22, and 23.

Note:

Map follows:



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Constituent elements of all areas proposed as critical habitat include streams 15 feet to 60 feet wide with gravel-bottom shoal and riffle areas with intervening pools. Streams should have clean, unpolluted flowing water and a stable riparian zone. The streams should support a variety of aquatic insects, crustaceans, and other small invertebrates for food.

Little Kern Golden Trout (Salmo aguabonita whitei)

California, Tulare County. Little Kern River, main channel and all streams tributary to the Little Kern River above barrier falls located on the Little Kern River one mile below the mouth of Trout Meadows Creek.

Note:

Map follows:

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Woundfin (Plagopterus argentissimus)

Legal descriptions for St. George (Utah–Arizona) and Littlefield (Arizona) were obtained from the 1987 BLM maps (Surface Management Status 30×60 Minute Quadrangles). Legal descriptions for Overton (Nevada–Arizona) were obtained from the 1989 BLM maps (Surface Management Status 30×60 Minute Quadrangles). The 100-year floodplain for many areas is detailed in Flood Insurance Rate Maps (FIRM)

published by and available through the Federal Emergency Management Agency (FEMA). In areas where a FIRM is not available, the presence of alluvium soils or known high water marks can be used to determine the extent of the floodplain. Only areas of floodplain containing at least one of the constituent elements are considered critical habitat. Critical habitat designated for the woundfin is as follows:

Utah, Washington County; Arizona, Mohave County; Nevada, Clark County. The Virgin River and its 100-year floodplain from its confluence with La Verkin Creek, Utah in T.41S., R.13W., sec.23 (Salt Lake Base and Meridian) to Halfway Wash, Nevada T.15S., R.69E., sec.6 (Salt Lake Base and Meridian).

The primary constituent elements of critical habitat determined necessary for the survival and recovery of these Virgin River fishes are water, physical habitat, and biological environment. The desired conditions for each of these elements are further discussed below.

Water—A sufficient quantity and quality of water (*i.e.*, temperature, dissolved oxygen, contaminants, nutrients, turbidity, etc.) that is delivered to a specific location in accordance with a hydrologic regime that is identified for the particular life stage for each species. This includes the following:

1. Water quality characterized by natural seasonally variable temperature, turbidity, and conductivity;

2. hydrologic regime characterized by the duration, magnitude, and frequency of flow events capable of forming and maintaining channel and instream habitat necessary for particular life stages at certain times of the year; and

3. flood events inundating the floodplain necessary to provide the organic matter that provides or supports the nutrient and food sources for the listed fishes.

Physical Habitat—Areas of the Virgin River that are inhabited or potentially habitable by a particular life stage for each species, for use in spawning, nursing, feeding, and rearing, or corridors between such areas:

1. River channels, side channels, secondary channels, backwaters, and springs, and other areas which provide access to these habitats;

2. areas inhabited by adult and juvenile woundfin include runs and pools adjacent to riffles that have sand and sand/gravel substrates;

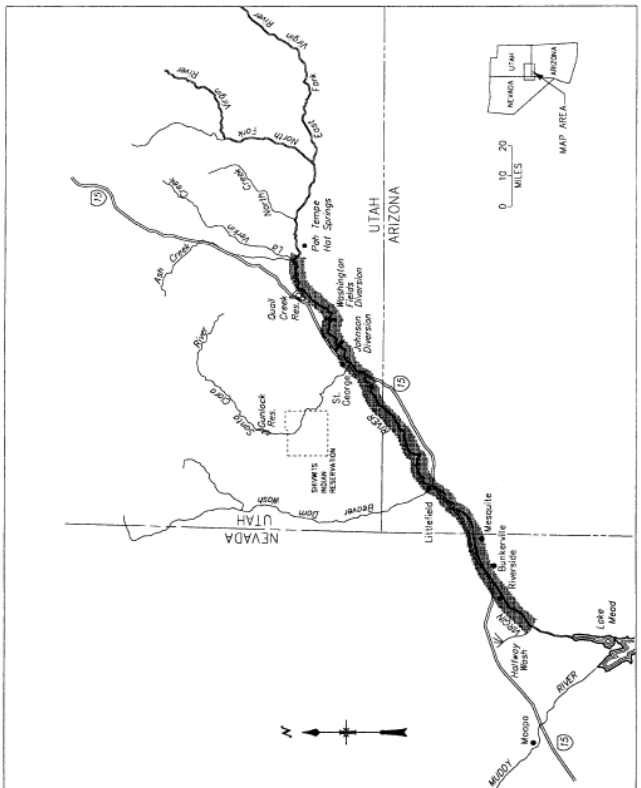
3. areas inhabited by juvenile woundfin are generally deeper and slower. When turbidity is low, adults also tend to occupy deeper and slower habitats;

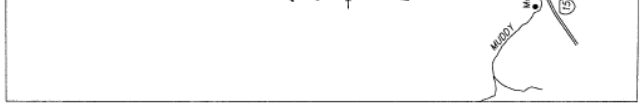
4. areas inhabited by woundfin larvae include shoreline margins and backwater habitats associated with growths of filamentous algae.

Biological Environment—Food supply, predation, and competition are important elements of the biological environment and are considered components of this constituent element. Food supply is a function of nutrient supply, productivity, and availability to each life stage of the species. Predation and competition, although considered normal components of this environment, are out of balance due to nonnative fish species in many areas. Fourteen introduced species, including red shiner (*Cyprinella lutrensis*), black bullhead (*Ameiurus melas*), channel catfish (*Ictalurus punctatus*), and largemouth bass (*Micropterus salmoides*), compete with or prey upon the listed fishes. Of these, the red shiner is the most numerous and has been the most problematic for the listed fishes. Red shiners compete for food and available habitats and are known to prey on the eggs and early life stages of the listed fishes. Components of this constituent element include the following:

1. Seasonally flooded areas that contribute to the biological productivity of the river system by producing allochthonous (humus, silt, organic detritus, colloidal matter, and plants and animals produced outside the river and brought into the river) organic matter which provides and supports much of the food base of the listed fishes; and

2. few or no predatory or competitive nonnative species in occupied Virgin River fishes' habitats or potential reestablishment sites.





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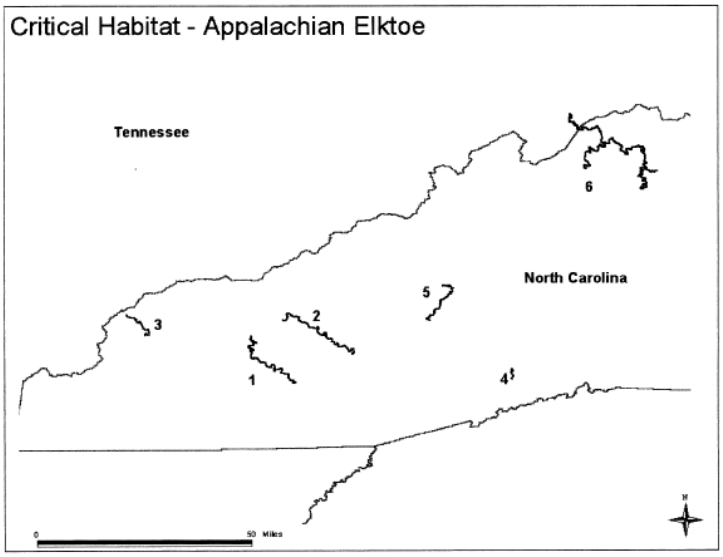
(f) *Clams and Snails.*

Appalachian elktoe (Alasmidonta raveneliana)

(1) Critical habitat units are described below and depicted in the maps that follow, with the lateral extent of each designated unit bounded by the ordinary high-water line.

(i) Index map follows:



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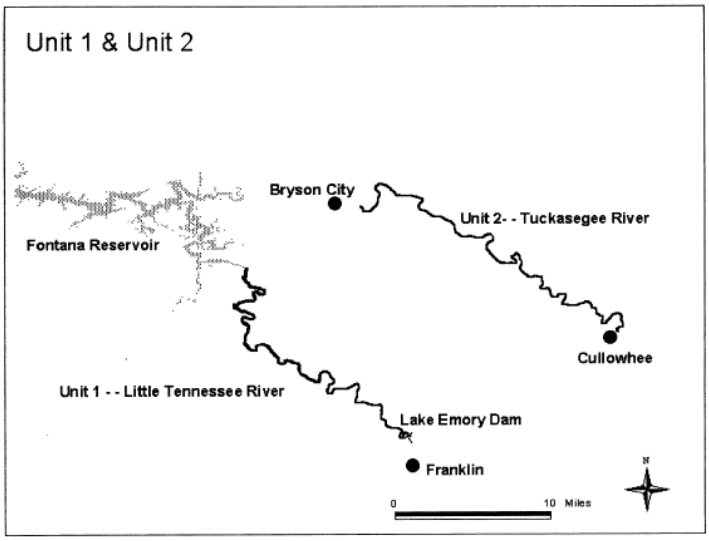
(2) Unit 1.

(i) Macon County and Swain County, NC—the main stem of the Little Tennessee River (Tennessee River system), from the Lake Emory Dam at Franklin, Macon County, NC, downstream to the backwaters of Fontana Reservoir in Swain County, NC.

(3) Unit 2.

(i) Jackson County and Swain County, NC—the main stem of the Tuckasegee River (Little Tennessee River system), from the N.C. State Route 1002 Bridge in Cullowhee, Jackson County, NC, downstream to the N.C. Highway 19 Bridge, north of Bryson City, Swain County, NC.

(ii) Map of Unit 1 and Unit 2 follows:



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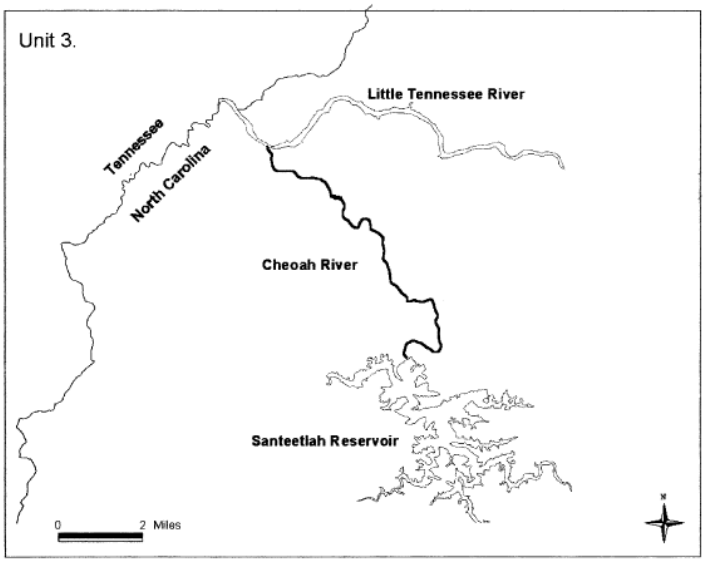
(4) Unit 3.

(i) Graham County, NC—the main stem of the Cheoah River (Little Tennessee River system), from the Santeetlah Dam, downstream to its confluence with the Little Tennessee River.

(ii) Map of Unit 3 follows:



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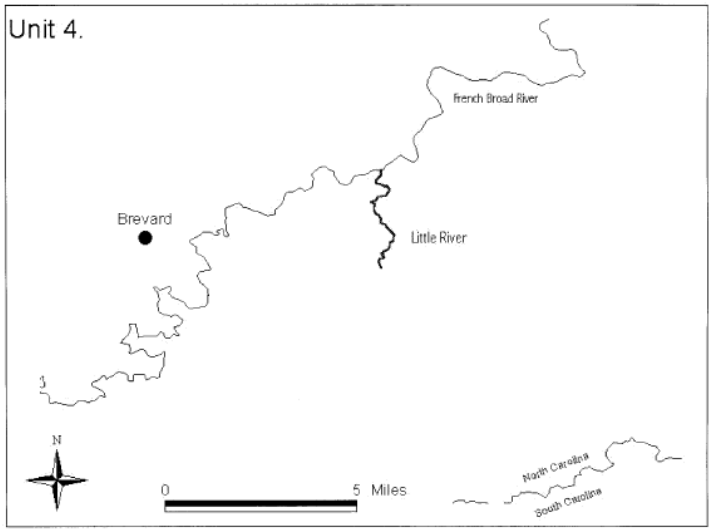
(5) Unit 4.

(i) Transylvania County, NC—the main stem of the Little River (French Broad River system), from the Cascade Lake Power Plant, downstream to its confluence with the French Broad River.

(ii) Map of Unit 4 follows:



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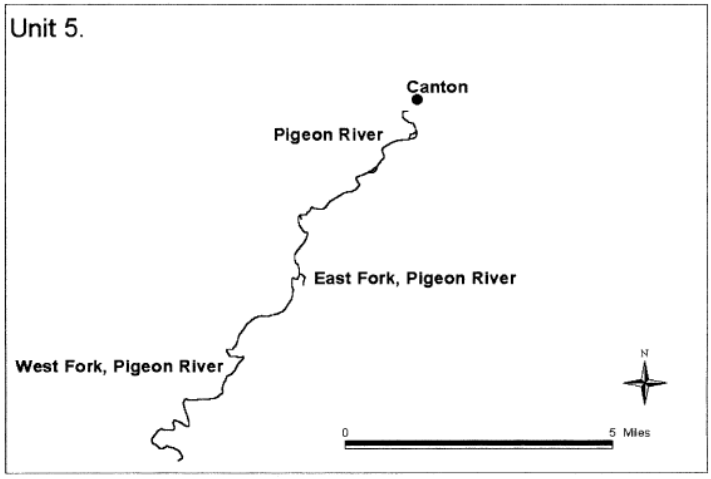
(6) Unit 5.

(i) Haywood County, NC—the main stem of the West Fork Pigeon River (French Broad River system), from the confluence of the Little East Fork Pigeon River, downstream to the confluence of the East Fork Pigeon River, and the main stem of the Pigeon River, from the confluence of the West Fork Pigeon River and the East Fork Pigeon River, downstream to the N.C. Highway 215 Bridge crossing, south of Canton, NC.

(ii) Map of Unit 5 follows:



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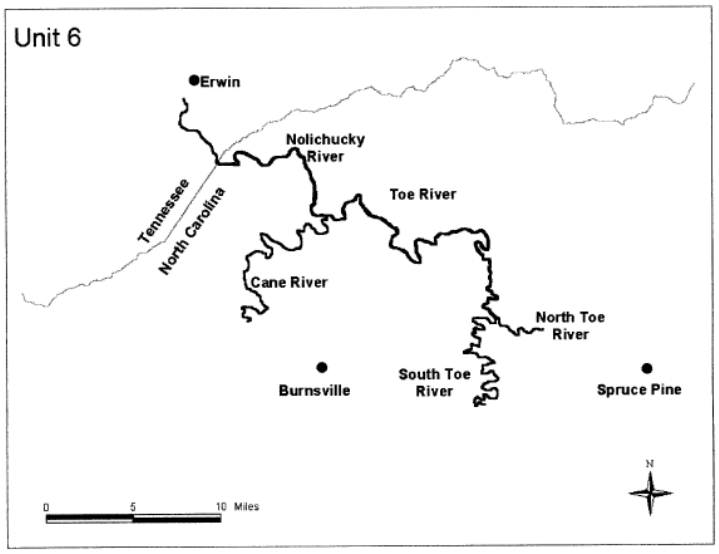
(7) Unit 6.

(i) Yancey County and Mitchell County, NC, and Unicoi County, TN—the main stem of the North Toe River, Yancey and Mitchell Counties, NC, from the confluence of Big Crabtree Creek, downstream to the confluence of the South Toe River; the main stem of the South Toe River, Yancey County, NC, from the N. C. State Route 1152 Bridge, downstream to its confluence with the North Toe River; the main stem of the Toe River, Yancey and Mitchell Counties, NC, from the confluence of the North Toe River and the South Toe River, downstream to the confluence of the Cane River; the main stem of the Cane River, Yancey County, NC, from the N.C. State Route 1381 Bridge, downstream to its confluence with the Toe River; and the main stem of the Nolichucky River from the confluence of the Toe River and the Cane River in Yancey County and Mitchell County, NC, downstream to the U.S. Highway 23/19W Bridge southwest of Erwin, Unicoi County, TN.

(ii) Map of Unit 6 follows:



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(8) Within these areas, the primary constituent elements include:

(i) Permanent, flowing, cool, clean water;

(ii) Geomorphically stable stream channels and banks;

(iii) Pool, riffle, and run sequences within the channel;

(iv) Stable sand, gravel, cobble, boulder, and bedrock substrates with no more than low amounts of fine sediment;

(v) Moderate to high stream gradient;

(vi) Periodic natural flooding; and

(vii) Fish hosts, with adequate living, foraging, and spawning areas for them.

Carolina heelsplitter (Lasmigona decorata)

(1) Critical habitat units are described below and depicted in the maps that follow, with the lateral extent of each designated unit bounded by the ordinary high-water line.

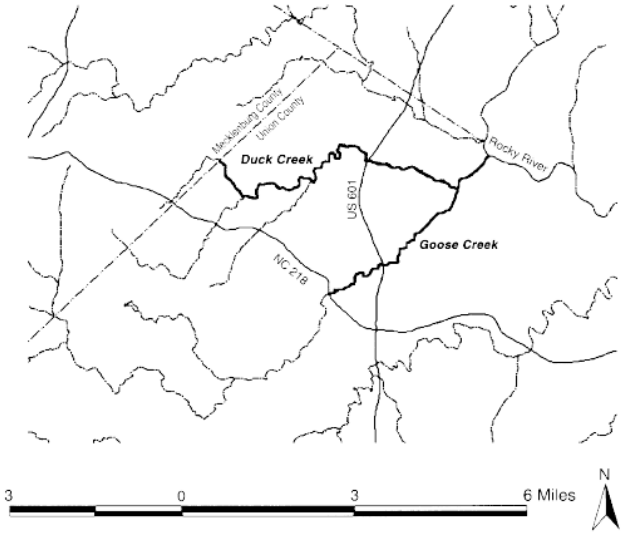
(2) Unit 1.

(i) Union County, NC—main stem of Goose Creek (Pee Dee River system) from the N.C. Highway 218

Bridge, downstream to its confluence with the Rocky River, and the main stem of Duck Creek, from the Mecklenburg/Union County line, downstream to its confluence with Goose Creek.

(ii) Map of Unit 1 follows:

Unit 1. Goose Creek and Duck Creek (Pee Dee River System), Union County, North Carolina.



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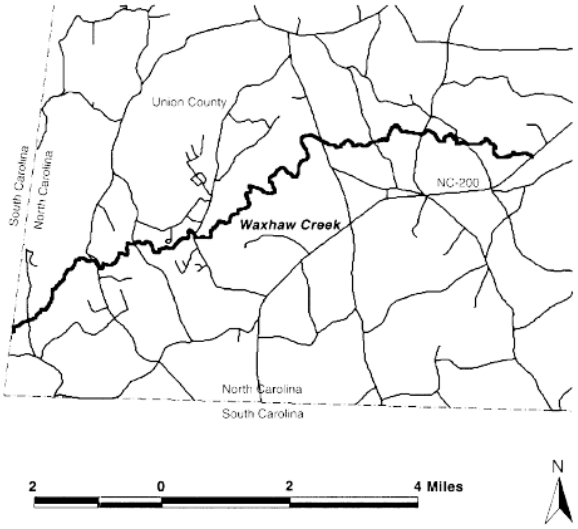
(3) Unit 2.

(i) Union County, NC—main stem of Waxhaw Creek (Catawba River system) from the N.C. Highway 200 Bridge, downstream to the North Carolina/South Carolina State line.

(ii) Map of Unit 2 follows:

Unit 2. Waxhaw Creek (Catawba River System), Union County, North Carolina.



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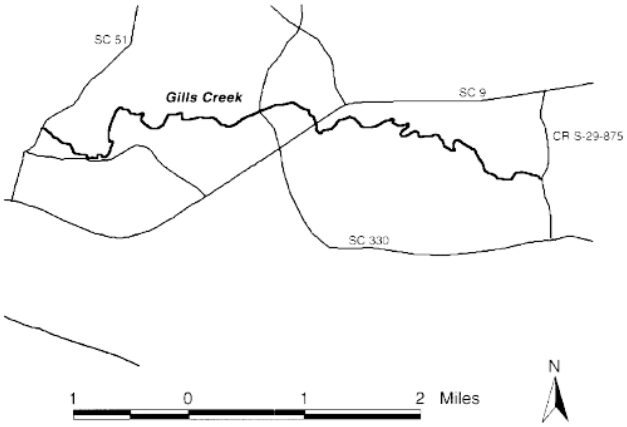
(4) Unit 3.

(i) Lancaster County, SC—main stem of Gills Creek (Catawba River system) from the County Route S–29–875, downstream to the S.C. Route 51 Bridge, east of the city of Lancaster.

(ii) Map of Unit 3 follows:

Unit 3. Gills Creek (Catawba River System), Lancaster County, South Carolina.



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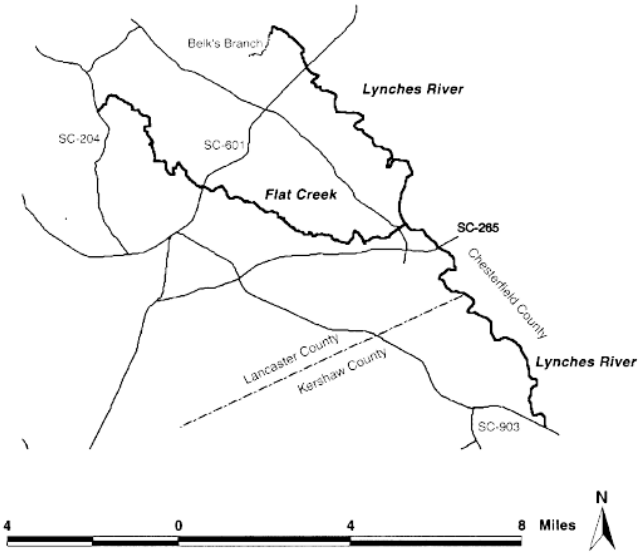
(5) Unit 4.

(i) Lancaster, Chesterfield, and Kershaw Counties, SC—main stem of Flat Creek (Pee Dee River system), Lancaster County, from the S.C. Route 204 Bridge, downstream to its confluence with Lynches River, and the main stem of the Lynches River, Lancaster and Chesterfield Counties, from the confluence of Belk Branch, Lancaster County, northeast (upstream) of the U.S. Highway 601 Bridge, downstream to the S.C. Highway 903 Bridge in Kershaw County.

(ii) Map of Unit 4 follows:

Unit 4. Flat Creek and Lynches River (Pee Dee River System), Lancaster and Kershaw Counties, South Carolina.



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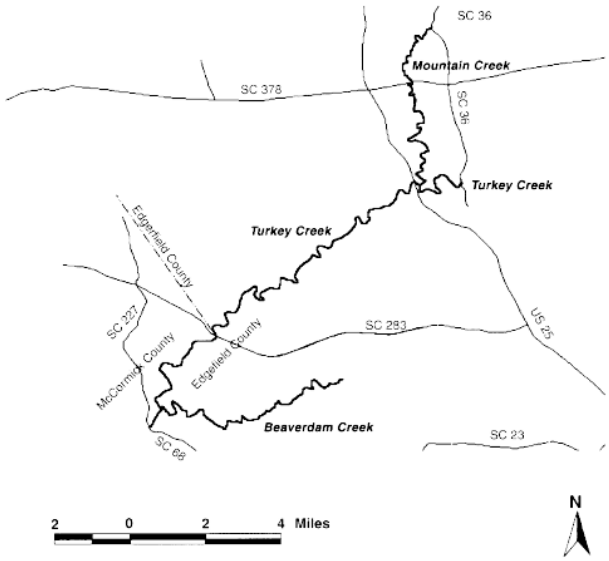
(6) Unit 5.

(i) Edgefield and McCormick Counties, SC—main stem of Mountain Creek (Savannah River system), Edgefield County, SC, from the S.C. Route 36 Bridge, downstream to its confluence with Turkey Creek; Beaverdam Creek, Edgefield County, from the S.C. Route 51 Bridge, downstream to its confluence with Turkey Creek; and Turkey Creek, from the S.C. Route 36 Bridge, Edgefield County, downstream to the S.C. Route 68 Bridge, Edgefield and McCormick Counties.

(ii) Map of Unit 5 follows:

Unit 5. Mountain and Beaverdam Creeks (Savannah River System), Edgefield County, South Carolina, and Turkey Creek (Savannah River System), Edgefield and McCormick Counties, South Carolina.



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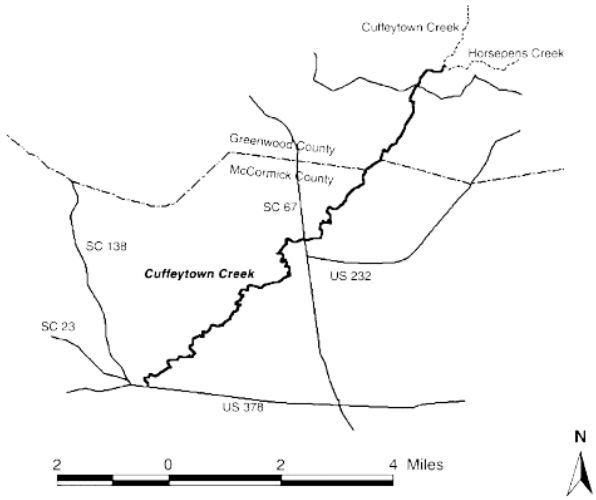
(7) Unit 6.

(i) Greenwood and McCormick Counties, SC—main stem of Cuffytown Creek (Savannah River system), from the confluence of Horsepen Creek, northeast (upstream) of the S.C. Route 62 Bridge in Greenwood County, downstream to the U.S. Highway 378 Bridge in McCormick County.

(ii) Map of Unit 6 follows:

Unit 6. Cuffeytown Creek (Savannah River System), Greenwood and McCormick Counties, South Carolina.



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(8) Within these areas, the primary constituent elements include:

(i) Permanent, flowing, cool, clean water;

(ii) Geomorphically stable stream and river channels and banks;

(iii) Pool, riffle, and run sequences within the channel;

(iv) Stable substrates with no more than low amounts of fine sediment;

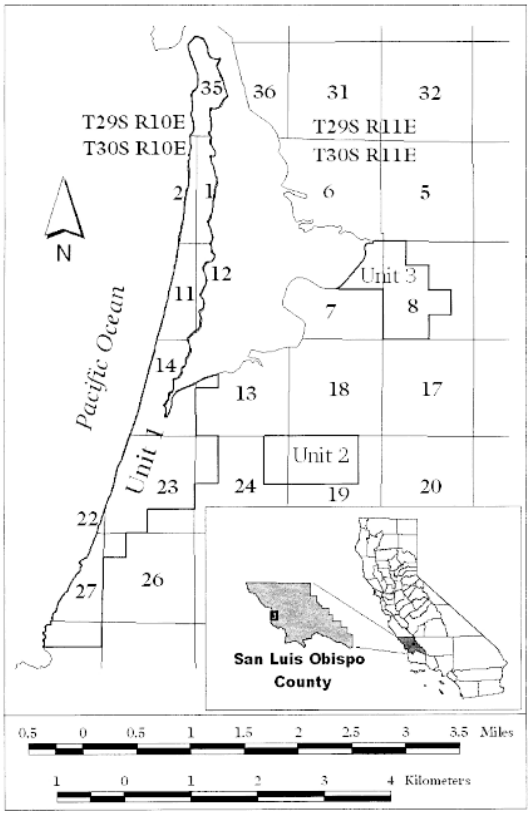
(v) Moderate stream gradient;

(vi) Periodic natural flooding; and

(vii) Fish hosts, with adequate living, foraging, and spawning areas for them.

Morro Shoulderband Snail (Helminthoglypta walkeriana)

1. Critical habitat units are depicted for San Luis Obispo County, California, on the map below.



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Map Units 1 to 3: All located in San Luis Obispo County, California. Coastline boundaries are based upon the U.S. Geological Survey Morro Bay South 7.5 minute topographic quadrangle. Other boundaries are based upon the Public Land Survey System. Within the historical boundaries of the Canada De Los Osos Y Pecho Y Islay Mexican Land Grant, boundaries are based upon section lines that are extensions to the Public Land Survey System developed by the California Department of Forestry and obtained by us from the State of California's Stephen P. Teale Data Center. Township and Range numbering is derived from the Mount Diablo Base and Meridian.

Map Unit 1: T. 29 S., R. 10 E., all of section 35 above mean sea level (MSL); T. 30 S., R. 10 E. All portions of sections 1, 2, 11, 12, 14, 22, and 27 above MSL, SW 1/4NW 1/4 section 13 above MSL, W 1/2NW 1/4 section 24, all of section 23 above MSL except S 1/2SE 1/4, NW 1/4NW 1/4 section 26, N 1/2N 1/2 section 34.

Map Unit 2: T. 30 S., R. 10 E., E 1/2NE 1/4 section 24; T. 30 S., R, 11 E., E 3/4N 1/2 section 19.

Map Unit 3: T. 30 S., R. 11 E., All of NE 1/4 section 7 above MSL; in section 8, NW 1/4NW 1/4, S 1/2NW 1/4, SW 1/4, and NW 1/4SE 1/4.

2. Within these areas, the primary constituent elements include, but are not limited to, those habitat components that are essential for the primary biological needs of foraging, sheltering, reproduction, and dispersal. The primary constituent elements for the Morro shoulderband snail are the following: sand or sandy soils; a slope not greater than 10 percent; and the presence of, or the capacity to develop, coastal dune scrub vegetation.

3. Critical habitat does not include existing developed sites consisting of buildings, roads, aqueducts, railroads, airports, paved areas, and similar features and structures.

Newcomb's Snail (Erinna newcombi)

(1) Critical Habitat Units are depicted for the County of Kauai, Hawaii, on the maps below.

(2) Within these areas, the primary constituent elements required by the Newcomb's snail are those habitat components that are essential for the biological needs of foraging, sheltering, reproduction, and dispersal. The primary constituent elements are: cool, clean, moderate-to fast-flowing water in streams, springs, and seeps; their adjacent riparian areas and hydrogeologic features that capture and direct water flow to these spring and stream systems; a perennial flow of water throughout even the most severe drought conditions; and stream channel morphology that provides protection from channel scour by having overhanging waterfalls, protected tributaries, or similar refugia.

(3) Existing human-made features and structures within the boundaries of the mapped units, such as dams, ditches, tunnels, flumes, and other human-made features that do not contain the primary constituent elements, are not included as critical habitat.

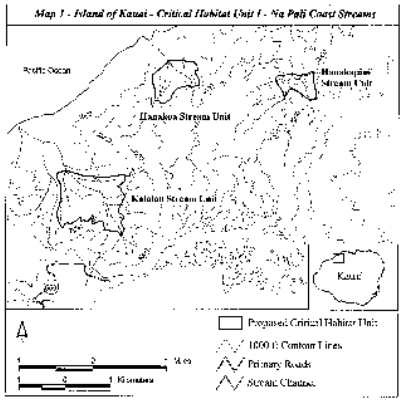
(4) Critical Habitat Unit I—Na Pali Coast Streams—(i) Unit I(a): Kalalau Stream (149 ha; 368 ac). The Kalalau Stream Newcomb's snail critical habitat location consists of all flowing surface waters within 63 boundary points with the following coordinates in UTM Zone 4 with the units in meters using North American Datum of 1983 (NAD83): 435010, 2450871; 434991, 2450828; 435008, 2450782; 435112, 2450715; 435107, 2450681; 435044, 2450591; 435058, 2450537; 435120, 2450441; 435078, 2450308; 435048, 2450279; 435017, 2450341; 434968, 2450375; 434678, 2450406; 434682, 2450441; 434678, 2450551; 434618, 2450603; 434578, 2450602; 434518, 2450564; 434418, 2450540; 434444, 2450711; 434428, 2450733; 434388, 2450657; 434338, 2450612; 434278, 2450596; 434228, 2450621; 434188, 2450596; 434166, 2450621; 434159, 2450691; 434148, 2450691; 434058, 2450599; 433995, 2450571; 433968, 2450540; 433878, 2450559; 433825, 2450544; 433767, 2450451; 433738, 2450478; 433700,

2450581; 433670, 2450611; 433670, 2450671; 433633, 2450738; 433715, 2450996; 433732, 2451168; 433740, 2451380; 433642, 2451551; 433633, 2451598; 433688, 2451664; 433842, 2451694; 434206, 2451592; 434680, 2451547; 435053, 2451609; 435129, 2451611; 435147, 2451590; 435114, 2451460; 435048, 2451400; 434973, 2451360; 435041, 2451320; 435043, 2451250; 435134, 2451170; 435126, 2451120; 435089, 2451069; 435075, 2451013; 435018, 2450933; 435010, 2450871;

(ii) Unit I(b): Hanakoa Stream (63 ha; 156 ac). The Hanakoa Stream Newcomb's snail critical habitat location consists of all flowing surface waters within 24 boundary points with the following coordinates in UTM Zone 4 with the units in meters using North American Datum of 1983 (NAD83): 435729, 2453628; 435717, 2453789; 436111, 2454127; 436637, 2454087; 436700, 2454008; 436719, 2453907; 436658, 2453889; 436654, 2453857; 436735, 2453697; 436744, 2453577; 436558, 2453527; 436518, 2453555; 436478, 2453559; 436250, 2453496; 436152, 2453358; 436123, 2453263; 436068, 2453238; 435998, 2453171; 435918, 2453168; 435869, 2453229; 435799, 2453248; 435780, 2453320; 435770, 2453490; 435729, 2453628.

(iii) Unit I(c): Hanakapiai Stream (35 ha; 86 ac). The Hanakapiai Stream Newcomb's snail critical habitat location consists of all flowing surface waters within 25 boundary points with the following coordinates in UTM Zone 4 with the units in meters using North American Datum of 1983 (NAD83): 438438, 2453772; 438785, 2453827; 438899, 2453794; 438961, 2453796; 439113, 2453829; 439216, 2453871; 439257, 2453846; 439234, 2453666; 439263, 2453606; 439310, 2453377; 439299, 2453306; 439258, 2453253; 439158, 2453265; 439098, 2453290; 438949, 2453407; 438769, 2453508; 438692, 2453457; 438674, 2453387; 438618, 2453307; 438591, 2453347; 438578, 2453417; 438525, 2453507; 438443, 2453622; 438429, 2453677; 438438, 2453772.

(iv) Map 1—Unit I—Na Pali Coast Streams follows:



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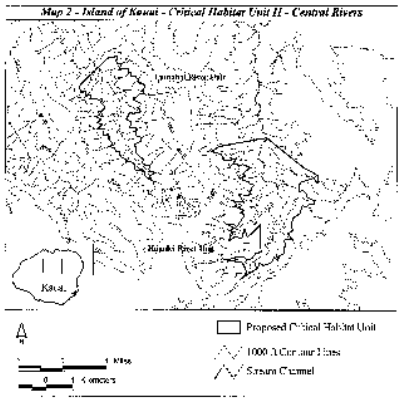
(5) Critical Habitat Unit II—Central Rivers—(i) Unit II(a): Lumahai River (492 ha; 1,216 ac). The Lumahai River Newcomb's snail critical habitat location consists of all flowing surface waters within 89 boundary points with the following coordinates in UTM Zone 4 with the units in meters using North American Datum of 1983 (NAD83): 447598, 2445954; 447344, 2446136; 447298, 2446352; 447248, 2446290; 447178, 2446384; 447088, 2446327; 446972, 2446364; 446950, 2446572; 446787, 2446678; 446648, 2446627; 446648, 2446739; 446445, 2446836; 446409, 2447000; 446278, 2447034; 446208, 2447169; 446097, 2447178; 446141, 2447349; 446024, 2447449; 446014, 2447649; 445808, 2447618; 445809, 2447680; 445839, 2447840; 445616, 2447859; 445773, 2448009; 445589, 2448069; 445728, 2448189; 445531, 2448299; 445685, 2448359; 445605, 2448469; 445728, 2448478; 445854, 2448578; 445858, 2448680; 445728, 2448778; 445759, 2448939; 445618, 2448896; 445548, 2448954; 445318, 2448932; 445338, 2449080; 445164, 2449034; 445171, 2449211; 444998, 2449168; 444932, 2449348; 445008, 2449493; 445936, 2450417; 446309, 2450498; 446262, 2450317; 446309, 2450238; 446476, 2450245; 446385, 2450007; 446688, 2450060; 446714, 2449913; 446811, 2449890; 446799, 2449758; 446998, 2449747; 447028, 2449643; 447101, 2449690; 447098, 2449525; 447228, 2449509; 447343, 2449387; 447229, 2449247; 447298, 2449117; 447128, 2449116; 446901, 2448918; 447174, 2448778; 447144, 2448668; 447066, 2448628; 447190, 2448478; 446898, 2448400; 446778, 2448451; 446649, 2448198; 446831, 2448108; 446782, 2447899; 447064, 2447862; 446986, 2447707; 447038, 2447583; 447225, 2447529; 447162, 2447395; 446973, 2447289; 447008, 2446969; 447288, 2446719; 447234, 2446659; 447268, 2446571; 447448, 2446499; 447548, 2446559; 447484, 2446393; 447518, 2446304; 447739, 2446259; 447507, 2446131; 447598, 2445954;

(ii) Unit II(b): Hanalei River (876 ha; 2,165 ac). The Hanalei River Newcomb's snail critical habitat location consists of all flowing surface waters within 91 boundary points with the following coordinates in UTM Zone 4 with the units in meters using North American Datum of 1983 (NAD83): 450038, 2447210; 451786, 2447529; 453099, 2446469; 453648, 2446167; 453691, 2445925; 453614, 2445904; 453508, 2446074; 453044, 2445908; 452961, 2445785; 452974, 2445578; 453125, 2445605; 453267, 2445468; 453258, 2445377; 453550, 2445238; 453508, 2445111; 453318, 2445096; 453238, 2444991; 453098, 2445064; 453010, 2444769; 452768, 2444606; 452680, 2444349; 452760, 2444169; 452581, 2444039; 452723, 2443844; 452429, 2443810; 452486, 2443680; 452419, 2443309; 452280, 2443240; 452198, 2443073; 452088, 2443185; 451948, 2442960; 451678, 2442885; 451549, 2442979; 451471, 2442787; 450955, 2442448; 451082, 2442651; 450916, 2442988; 450337, 2443081; 450718, 2443188; 450968, 2443197; 451068, 2443077; 451255, 2443133; 451414, 2443330; 451612, 2443370; 451552, 2443666; 451549, 2444330; 451107, 2443911; 450988, 2444210; 450894, 2443874; 450638, 2443920; 450431, 2443773; 450492, 2444026; 450614, 2444100; 450468, 2444134; 450592, 2444250; 450389, 2444360; 450621, 2444363; 450698, 2444275; 450967, 2444669; 450939, 2444770; 450803, 2444769; 450978, 2444899; 450611, 2445032; 450698, 2445101; 450573, 2445219; 450969, 2445168; 450768, 2445479; 451068, 2445422; 451226, 2445489; 451158, 2445584; 451251, 2445606; 451216, 2445692; 451335, 2445819; 451188, 2445824; 451124, 2445925; 450928, 2445983; 450904, 2446088; 451017, 2446148; 450940, 2446208; 451031, 2446325; 451208, 2446428; 450928, 2446552; 450788, 2446490; 450688, 2446603; 450538, 2446560; 450668, 2446774; 450418, 2446700; 450199, 2446739; 450133, 2446913; 449784, 2447034; 450038, 2447210.

(iii) Map 2—Unit II—Central Rivers—follows:



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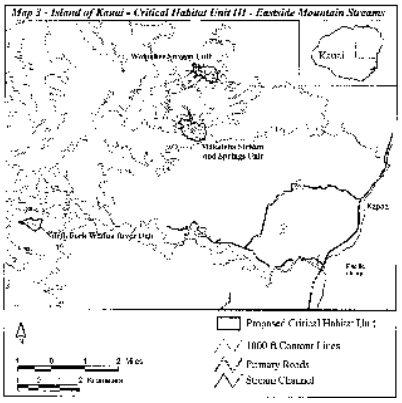
(6) Critical Habitat Unit III—Eastside Mountain Streams—(i) Unit III(a): Waipahee Stream (66 ha; 163 ac). The Waipahee Stream Newcomb's snail critical habitat location consists of all flowing surface waters within 78 boundary points with the following coordinates in UTM Zone 4 with the units in meters using North American Datum of 1983 (NAD83): 458921, 2447414; 458943, 2447424; 458998, 2447420; 459102, 2447444; 459044, 2447534; 459104, 2447563; 459108, 2447613; 459085, 2447643; 459100, 2447671; 459118, 2447693; 459108, 2447714; 459078, 2447703; 459048, 2447661; 459028, 2447663; 459017, 2447694; 459045, 2447696; 459054, 2447727; 459118, 2447770; 459164, 2447749; 459191, 2447646; 459231, 2447596; 459309, 2447603; 459321, 2447623; 459306, 2447685; 459351, 2447663; 459398, 2447531; 459478, 2447584; 459518, 2447553; 459568, 2447656; 459586, 2447613; 459648, 2447556; 459738, 2447649; 459918, 2447569; 459998, 2447569; 460018, 2447584; 460048, 2447572; 460055, 2447576; 460261, 2447303; 460229, 2447182; 460178, 2446882; 460172, 2446875; 460058, 2446836; 459978, 2446834; 459906, 2446782; 459887, 2446803; 459902, 2446878; 459848, 2446946; 459818, 2446933; 459778, 2446940; 459694, 2446904; 459702, 2447004; 459648, 2447020; 459638, 2447098; 459608, 2447104; 459508, 2447031; 459502, 2447068; 459448, 2447061; 459500, 2447134; 459467, 2447203; 459445, 2447214; 459408, 2447183; 459388, 2447194; 459318, 2447163; 459268, 2447169; 459248, 2447139; 459218, 2447136; 459182, 2447074; 459148, 2447057; 459078, 2447076; 459083, 2447094; 459148, 2447124; 459185, 2447224; 459166, 2447274; 459178, 2447334; 459118, 2447345; 458948, 2447313; 459001, 2447384; 458928, 2447407.

(ii) Unit III(b): Makaleha Stream (95 ha; 235 ac). The Makaleha Stream Newcomb's snail critical habitat location consists of all flowing surface waters within 68 boundary points with the following coordinates in UTM Zone 4 with the units in meters using North American Datum of 1983 (NAD83): 459368, 2444730; 459372, 2444732; 459414, 2444830; 459438, 2444851; 459498, 2444854; 459528, 2444873; 459588, 2444828; 459601, 2444832; 459689, 2444388; 459662, 2444260; 459604, 2444112; 459455, 2444044; 459279, 2444030; 459064, 2444037; 459008, 2444069; 459002, 2444101; 458968, 2444099; 458944, 2444123; 458878, 2444096; 458808, 2444142; 458803, 2444197; 458748, 2444245; 458658, 2444279; 458633, 2444322; 458576, 2444325; 458582, 2444377; 458552, 2444407; 458568, 2444467; 458478, 2444527; 458474, 2444587; 458537, 2444607; 458492, 2444667; 458608, 2444684; 458633, 2444746; 458545, 2444763; 458495, 2444803; 458485, 2444833; 458418, 2444844; 458347, 2444897; 458418, 2444925; 458411, 2444963; 458504, 2444960; 458503, 2444991; 458458, 2445046; 458458, 2445076; 458528, 2445084; 458582, 2445036; 458678, 2444990; 458718, 2445049; 458798, 2444992; 458818, 2444992; 458868, 2445050; 458908, 2445056; 458933, 2445106; 458927, 2445176; 458854, 2445276; 458808, 2445463; 458960, 2445258; 459033, 2445116; 459033, 2445066; 458978, 2444969; 458983, 2444831; 459038, 2444842; 459088, 2444900; 459158, 2444877; 459218, 2444913; 459331, 2444816; 459368, 2444730.

(iii) Unit III(c): North Fork Wailua River (36 ha; 90 ac). The North Fork Wailua River Newcomb's snail critical habitat location consists of all flowing surface waters within 23 boundary points with the following coordinates in UTM Zone 4 with the units in meters using North American Datum of 1983 (NAD83): 450656, 2440137; 450861, 2440154; 450920, 2440206; 450968, 2440196; 451045, 2440217; 451079, 2440286; 451145, 2440241; 451197, 2440262; 451211, 2440324; 451291, 2440314; 451291, 2440244; 451426, 2440217; 451589, 2440237; 451616, 2440286; 451811, 2440230; 451801, 2440139; 451748, 2440049; 451717, 2439976; 451701, 2439841; 451455, 2439688; 451343, 2439745; 450968, 2440043; 450840, 2440040.

(iv) Map 3—Unit III—Eastside Mountain Streams follows:



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Eleven Mobile River Basin mussel species: Southern acornshell (Epioblasma othcaloogensis), ovate clubshell (Pleurobema perovatum), southern clubshell (Pleurobema decisum), upland combshell (Epioblasma metastriata), triangular kidneyshell (Ptychobranchus greenii), Alabama moccasinshell (Medionidus acutissimus), Coosa moccasinshell (Medionidus parvulus), orange-nacre mucket (Lampsilis perovalis), dark pigtoe (Pleurobema furvum), southern pigtoe (Pleurobema georgianum), and fine-lined

pocketbook (Lampsilis altilis)

(1) The primary constituent elements essential for the conservation of the southern acornshell (*Epioblasma othcaloogensis*), ovate clubshell (*Pleurobema perovatum*), southern clubshell (*Pleurobema decisum*), upland combshell (*Epioblasma metastriata*); triangular kidneyshell (*Ptychobranchus greenii*), Alabama moccasinshell (*Medionidus acutissimus*), Coosa moccasinshell (*Medionidus parvulus*), orange-nacre mucket (*Lampsilis perovalis*), dark pigtoe (*Pleurobema furvum*), southern pigtoe (*Pleurobema georgianum*), and fine-lined pocketbook (*Lampsilis altilis*) are those habitat components that support feeding, sheltering, reproduction, and physical features for maintaining the natural processes that support these habitat components. The primary constituent elements include:

(i) Geomorphically stable stream and river channels and banks;

(ii) A flow regime (*i.e.*, the magnitude, frequency, duration, and seasonality of discharge over time) necessary for normal behavior, growth, and survival of all life stages of mussels and their fish hosts in the river environment;

(iii) Water quality, including temperature, pH, hardness, turbidity, oxygen content, and other chemical characteristics, necessary for normal behavior, growth, and viability of all life stages;

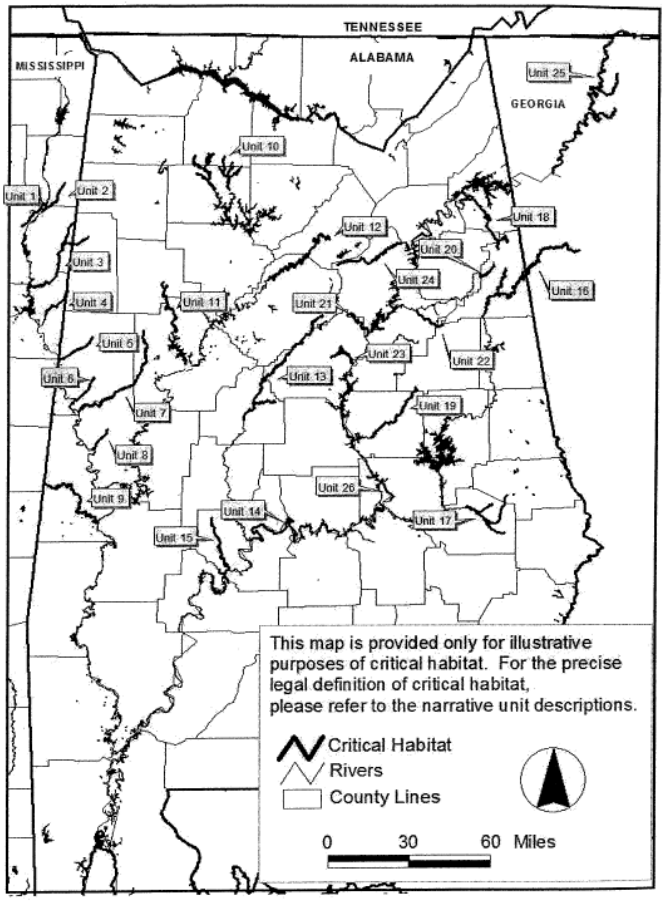
(iv) Sand, gravel, and/or cobble substrates with low to moderate amounts of fine sediment, low amounts of attached filamentous algae, and other physical and chemical characteristics necessary for normal behavior, growth, and viability of all life stages;

(v) Fish hosts, with adequate living, foraging, and spawning areas for them; and

(vi) Few or no competitive nonnative species present.

(2) Critical habitat unit descriptions and maps.

(i) Index map. The index map showing critical habitat units in the States of Mississippi, Alabama, Georgia, and Tennessee for the 11 Mobile River Basin mussel species follows:



General locations of designated critical habitat in the Mobile River Basin

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(ii) *Protected species and critical habitat units.* A table listing the protected species, their respective critical habitat units, and the States that contain those habitat units follows. Detailed critical habitat unit descriptions and maps appear below the table.

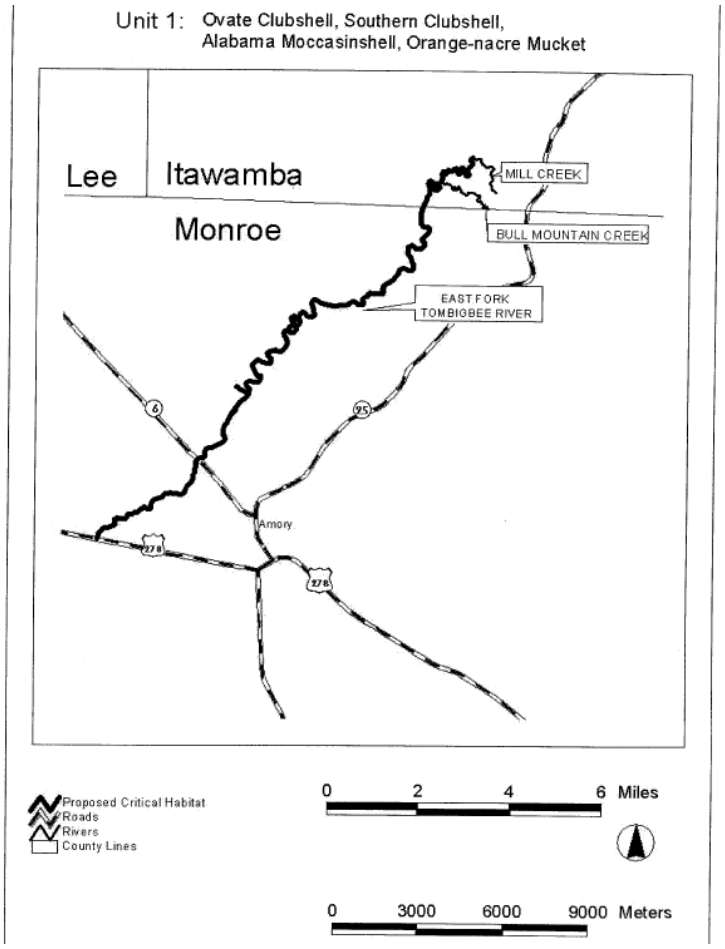
Species	Critical habitat units	States
Southern acornshell (Epioblasma othcaloogensis).	Units 13, 18, 19, 21, 24, 25, 26.	AL, GA, TN
Ovate clubshell (Pleurobema perovatum).	Units 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,	AL, GA, MS, TN

	17, 18, 19, 21, 24, 25, 26.	
Southern clubshell (Pleurobema decisum).	Units 1, 2, 3, 4, 5, 6, 7, 8, 9, 13, 14, 15, 17, 18, 19, 21, 24, 25, 26.	AL, GA, MS, TN
Upland combshell (Epioblasma metastriata).	Units 12, 13, 18, 19, 21, 24, 25, 26.	AL, GA, TN
Triangular kidneyshell (Ptychobranchus greenii).	Units 10, 11, 12, 13, 18, 19, 20, 21, 22, 23, 24, 25, 26.	AL, GA, TN
Alabama moccasinshell (Medionidus acutissimus).	Units 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 25, 26.	AL, GA, MS, TN
Coosa moccasinshell (Medionidus parvulus).	Units 18, 19, 20, 21, 22, 23, 24, 25, 26.	AL, GA, TN
Orange-nacre mucket (Lampsilis perovalis).	Units 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15.	AL, MS
Dark pigtoe (Pleurobema furvum).	Units 10, 11, 12.	AL
Southern pigtoe (Pleurobema georgianum).	Units 18, 19, 20, 21, 22, 23, 24, 25, 26.	AL, GA, TN
Fine-lined pocketbook (Lampsilis altilis).	Units 13, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26.	AL, GA, TN

(iii) Unit 1. East Fork Tombigbee River, Monroe, Itawamba County, Mississippi. This is a critical habitat unit for the ovate clubshell, southern clubshell, Alabama moccasinshell, and orange-nacre mucket.

(A) Unit 1 includes the East Fork Tombigbee River main stem from Mississippi Highway 278 (T13S R7E S3), Monroe County, upstream to the confluence of Mill Creek (T11S R8E S24), Itawamba County, Mississippi.

(B) Map of Unit 1 follows:



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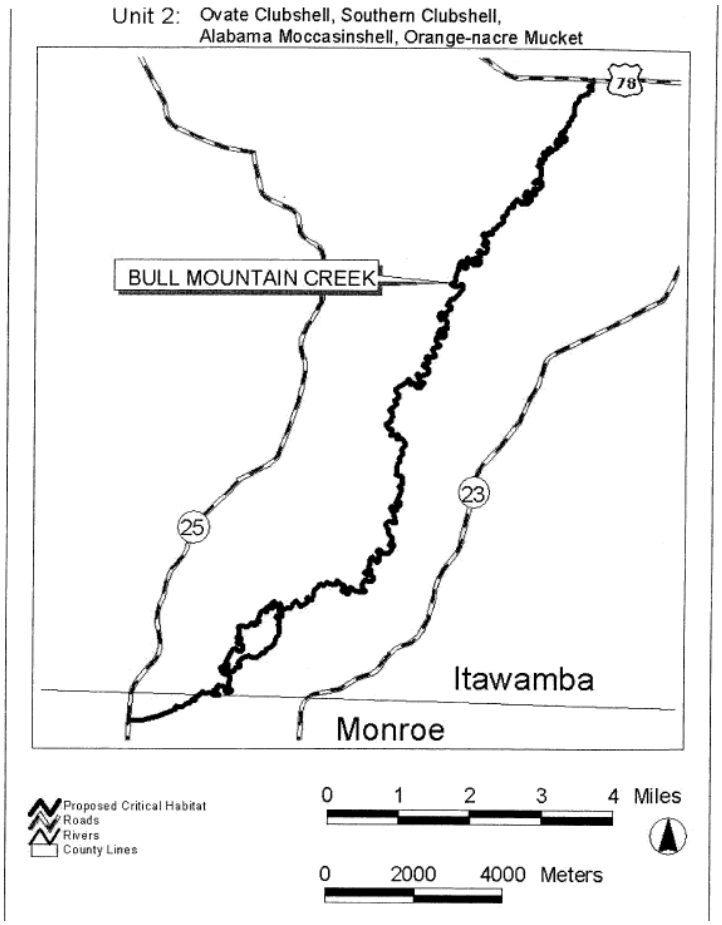
(iv) Unit 2. Bull Mountain Creek, Itawamba County, Mississippi. This is a critical habitat unit for the

ovate clubshell, southern clubshell, Alabama moccasinshell, and orange-nacre mucket.

(A) Unit 2 includes the main stem of Bull Mountain Creek from Mississippi Highway 25 (T11S R9E S30), upstream to U.S. Highway 78 (T10S R10E S6), Itawamba County, Mississippi.

(B) Map of Unit 2 follows:



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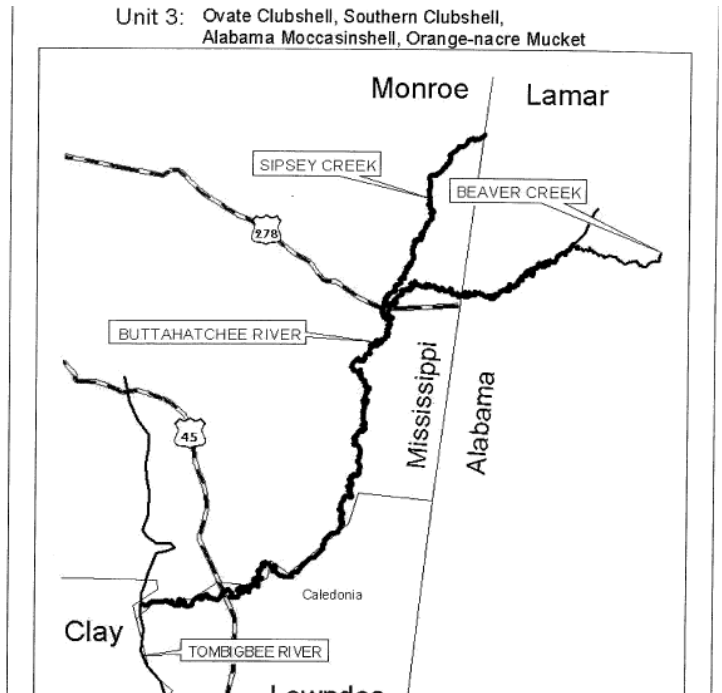
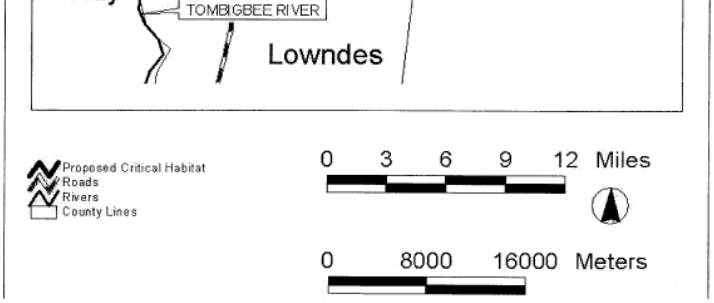
(v) Unit 3. Buttahatchee River and Sipsey Creek, Lowndes/Monroe County, Mississippi; Lamar County, Alabama. This is a critical habitat unit for the ovate clubshell, southern clubshell, Alabama moccasinshell, and orange-nacre mucket.

(A) Unit 3 includes the Buttahatchee River main stem from its confluence with the impounded waters of Columbus Lake (Tombigbee River, T16S R19W S23), Lowndes/Monroe County, Mississippi, upstream to the confluence of Beaver Creek (T13S R15W S17), Lamar County, Alabama; and Sipsey Creek, from its confluence with the Buttahatchee River (T14S R17W S2), upstream to the Mississippi/ Alabama State Line (T12S R10E S21), Monroe County, Mississippi.

(B) Map of Unit 3 follows:





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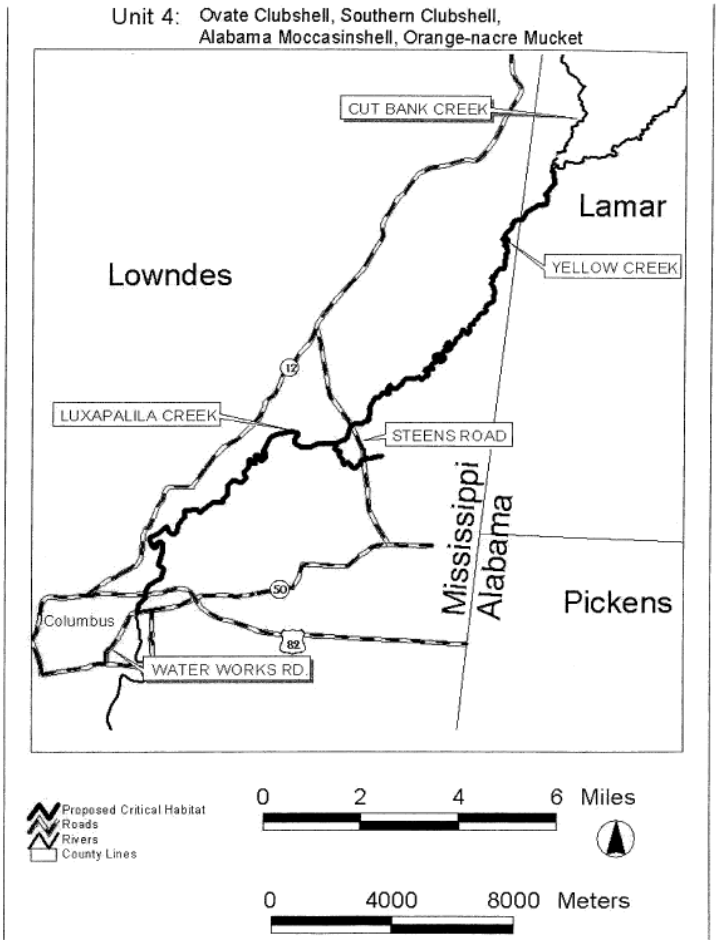
(vi) Unit 4. Luxapalila Creek and Yellow Creek, Lowndes County, Mississippi; Lamar County, Alabama. This is a critical habitat unit for the ovate clubshell, southern clubshell, Alabama moccasinshell, and orange-nacre mucket.

(A) Unit 4 includes the Luxapalila Creek main stem from Waterworks Road (T18S R18W S11), Columbus, Mississippi, upstream to approximately 1.0 km (0.6 mi) above Steens Road (T17S R17W S27), Lowndes County, Mississippi; and the Yellow Creek main stem from its confluence with Luxapalila Creek (T17S R17W S21), Lowndes County, Mississippi, upstream to the confluence of Cut Bank Creek (T16S R16W S30), Lamar County, Alabama.

(B) Map of Unit 4 follows:



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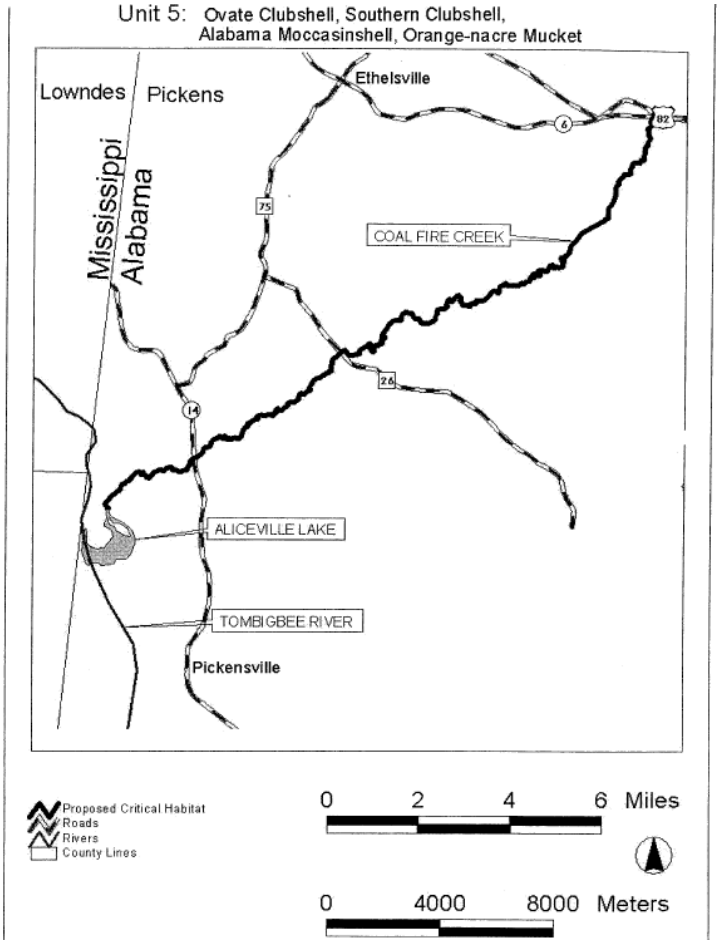
(vii) Unit 5. Coalfire Creek, Pickens County, Alabama. This is a critical habitat unit for the ovate clubshell, southern clubshell, Alabama moccasinshell, and orange-nacre mucket.

(A) Unit 5 includes the Coalfire Creek main stem from its confluence with the impounded waters of Aliceville Lake (Tombigbee River, T20S R17W S26), upstream to U.S. Highway 82 (T19S R15W S15), Pickens County, Alabama.

(B) Map of Unit 5 follows:



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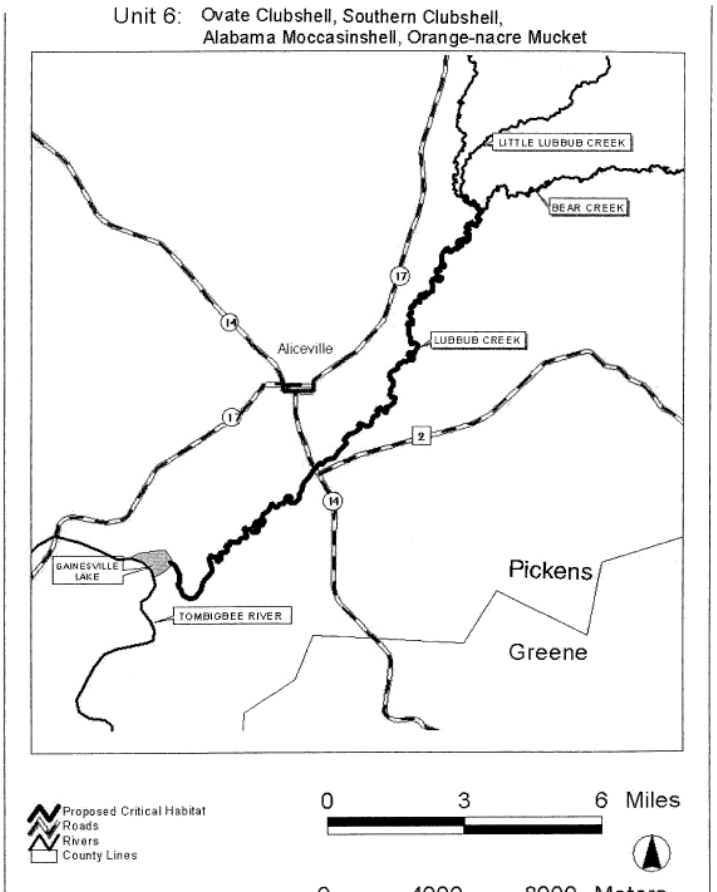
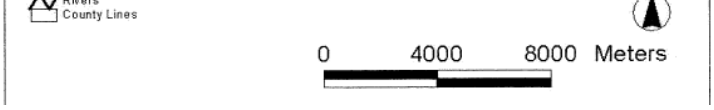
(viii) Unit 6. Lubbub Creek, Pickens County, Alabama. This is a critical habitat unit for the ovate clubshell, southern clubshell, Alabama moccasinshell, and orange-nacre mucket.

(A) Unit 6 includes the main stem of Lubbub Creek from its confluence with the impounded waters of Gainesville Lake (Tombigbee River, T24N R2W S11), upstream to the confluence of Little Lubbub Creek (T21S R1W S34), Pickens County, Alabama.

(B) Map of Unit 6 follows:





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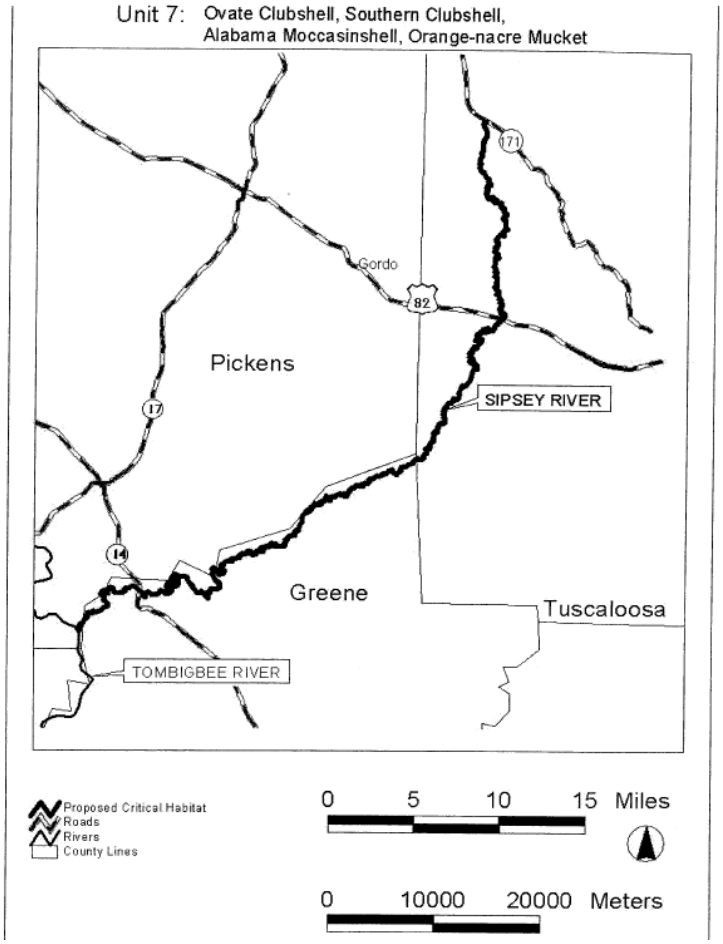
(ix) Unit 7. Sipsey River, Greene/Pickens, Tuscaloosa Counties, Alabama. This is a critical habitat unit for the ovate clubshell, southern clubshell, Alabama moccasinshell, and orange-nacre mucket.

(A) Unit 7 includes the Sipsey River main stem from its confluence with impounded waters of Gainesville Lake (Tombigbee River, T24N R1W S30), Greene/Pickens County, upstream to Alabama Highway 171 crossing (T18S R12W S34), Tuscaloosa County, Alabama.

(B) Map of Unit 7 follows:



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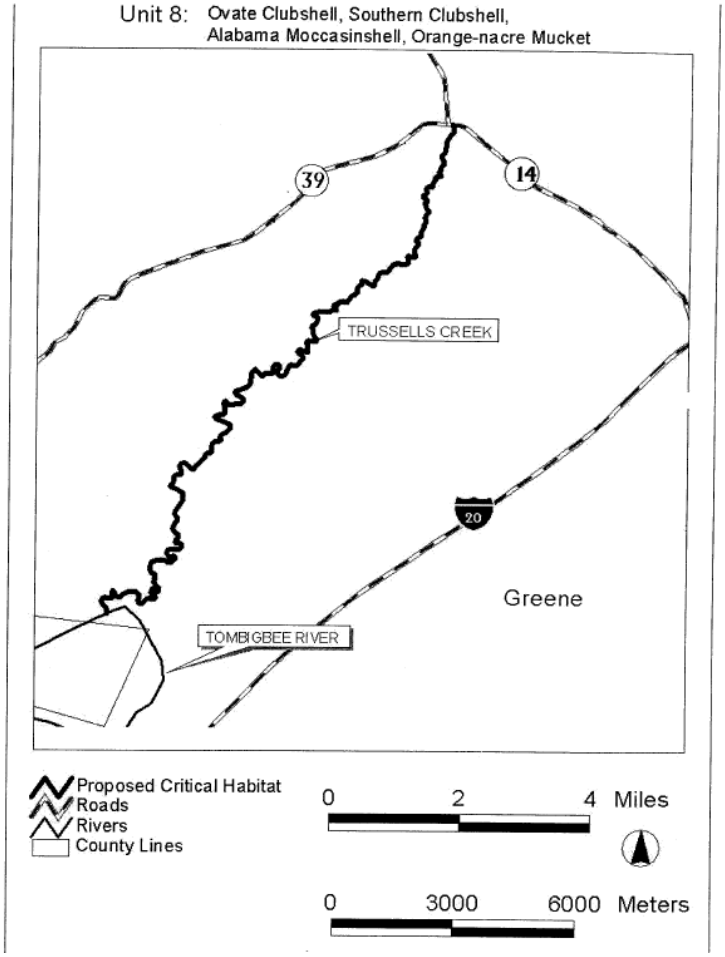
(x) Unit 8. Trussels Creek, Greene County, Alabama. This is a critical habitat unit for the ovate clubshell, southern clubshell, Alabama moccasinshell, and orange-nacre mucket.

(A) Unit 8 includes the Trussels Creek main stem from its confluence with the impounded waters of Demopolis Lake (Tombigbee River, T21N R2W S15), upstream to Alabama Highway 14 (T22N R1E S4), Greene County, Alabama.

(B) Map of Unit 8 follows:



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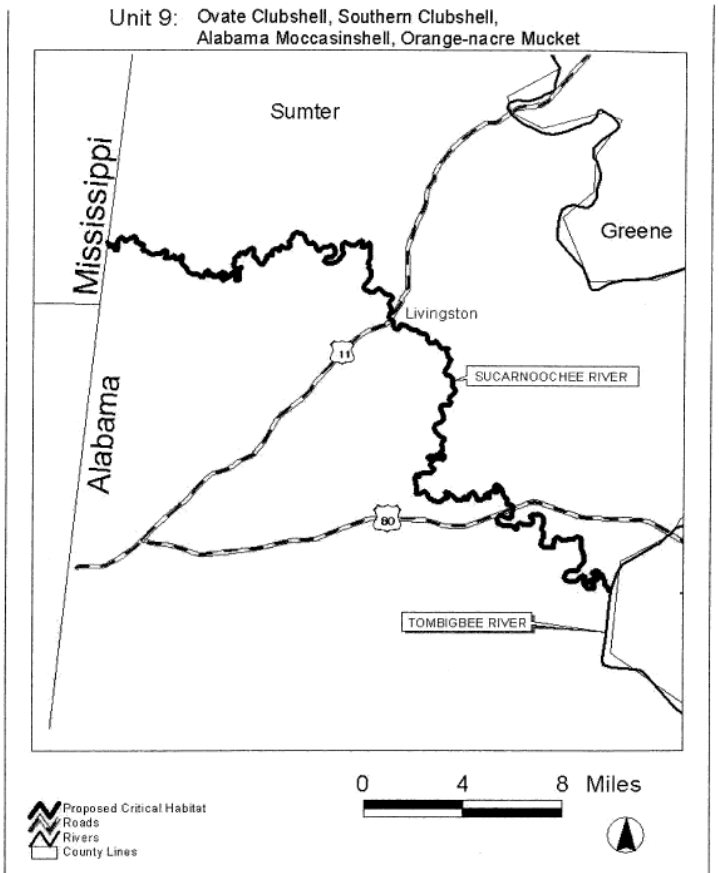
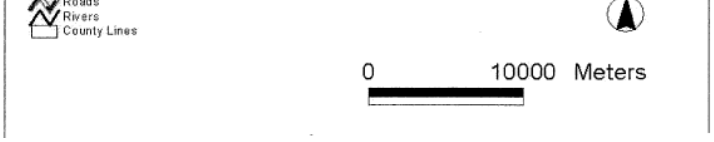
(xi) Unit 9. Sucarnoochee River, Sumter County, Alabama. This is a critical habitat unit for the ovate clubshell, southern clubshell, Alabama moccasinshell, and orange-nacre mucket.

(A) Unit 9 includes the Sucarnoochee River main stem from its confluence with the Tombigbee River (T17N R1W S26), upstream to the Mississippi/Alabama State Line (T19N R4W S15), Sumter County, Alabama.

(B) Map of Unit 9 follows:





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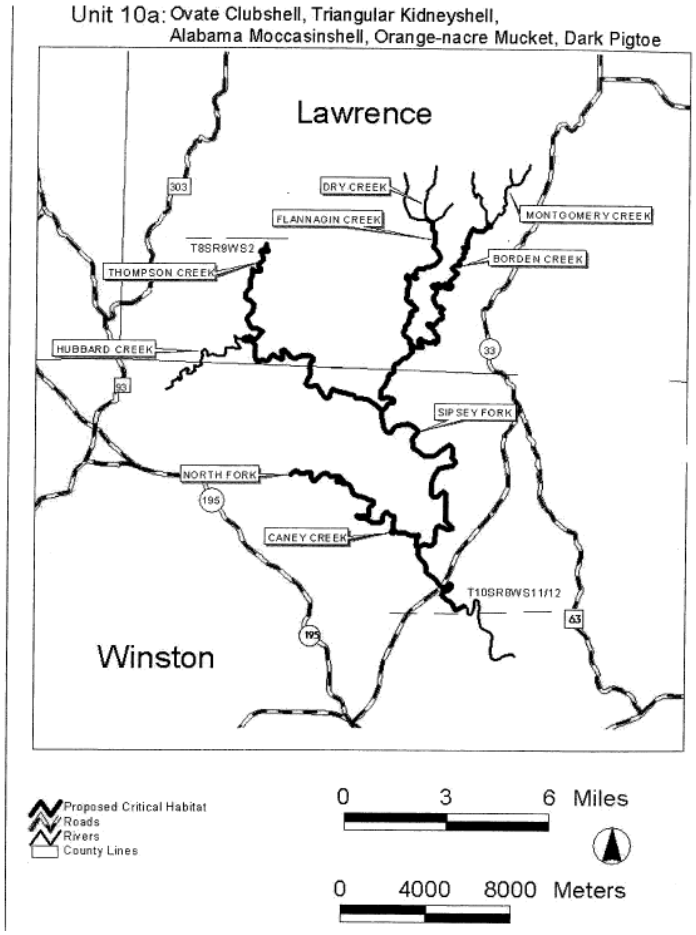
(xii) Unit 10. Sipsey Fork and tributaries, Winston, Lawrence Counties, Alabama. This is a critical habitat unit for the ovate clubshell, triangular kidneyshell, Alabama moccasinshell, orange-nacre mucket, and dark pigtoe.

(A) Unit 10 includes the Sipsey Fork main stem from the section 11/12 line (T10S R8W), Winston County, Alabama, upstream to the confluence of Hubbard Creek (T8S R9W S27), Lawrence County, Alabama; Thompson Creek, from its confluence with Hubbard Creek (T8S R9W S27), upstream to section 2 line (T8S R9W) Lawrence County; Brushy Creek, from the confluence of Glover Creek (T10S R7W S11), Winston County, upstream to section 9 (T8S R7W), Lawrence County; Capsey Creek, from confluence with Brushy Creek (T9S R7W S23), Winston County, upstream to the confluence of Turkey Creek (T8S R6W S33), Lawrence County; Rush Creek, from confluence with Brushy Creek (T9S R7W S15), upstream to Winston/Lawrence County Line (T9S R7W S1), Winston County; Brown Creek, from confluence with Rush Creek (T9S R7W S2), Winston County, upstream to section 24 line (T8S R7W), Lawrence County; Beech Creek, from confluence with Brushy Creek (T9S R7W S8), to confluence of East and West Forks (T9S R7W S6), Winston County; Caney Creek and North Fork Caney Creek, from confluence with Sipsey Fork (T9S R8W S28), upstream to section 14 line (T9S R9W), Winston County; Borden Creek, from confluence with Sipsey Fork (T8S R8W S5), Winston County, upstream to the confluence of Montgomery Creek (T8S R8W S10), Lawrence County; and Flannagin Creek, from confluence with Borden Creek (T8S R8W S28), upstream to confluence of Dry Creek (T8S R8W S4), Lawrence County.



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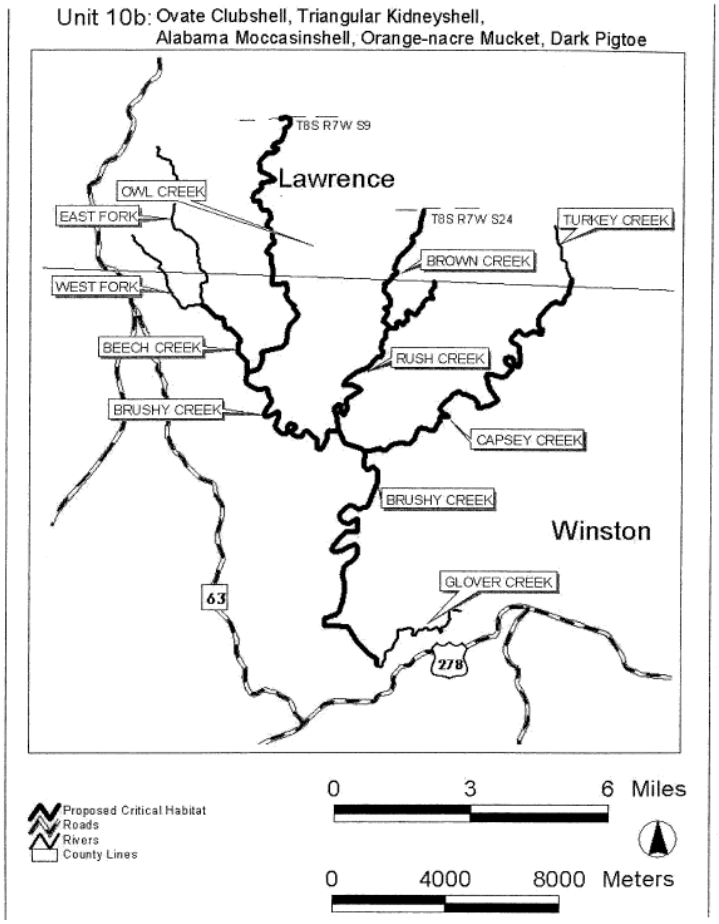

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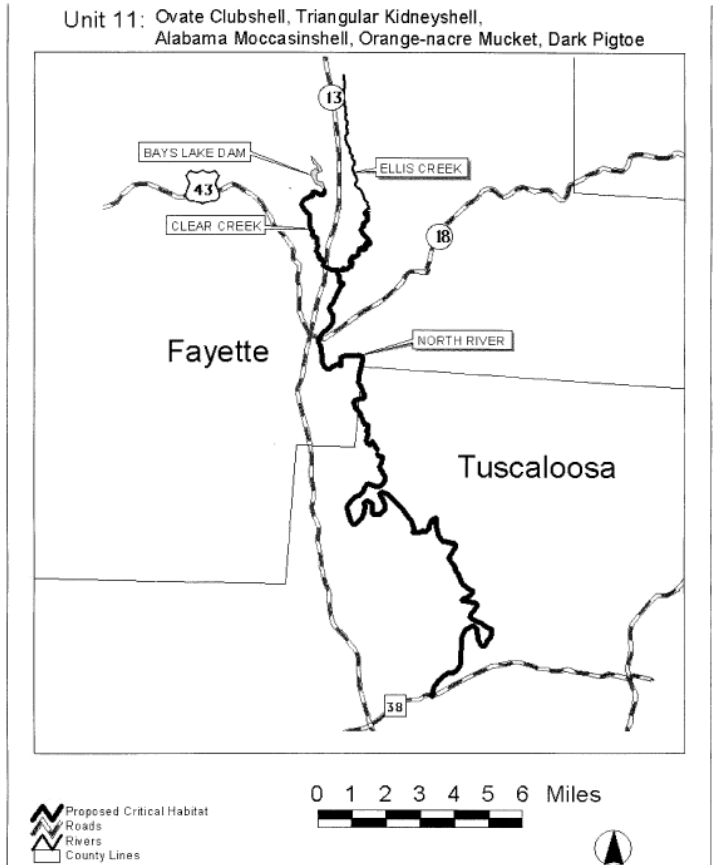
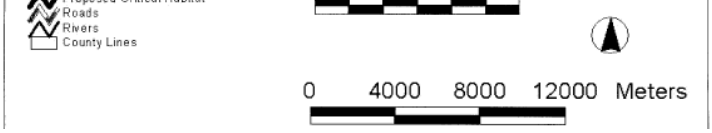
(xiii) Unit 11. North River and Clear Creek, Tuscaloosa, Fayette Counties, Alabama. This is a critical habitat unit for the ovate clubshell, triangular kidneyshell, Alabama moccasinshell, orange-nacre mucket, and dark pigtoe.

(A) Unit 11 includes the main stem of the North River from Tuscaloosa County Road 38 (T18S R10W S16), Tuscaloosa County, upstream to confluence of Ellis Creek (T16S R10W S6), Fayette County, Alabama; and Clear Creek from its confluence with North River (T16S R11W S13) to Bays Lake Dam (T16S R11W S2), Fayette County, Alabama.

(B) Map of Unit 11 follows:





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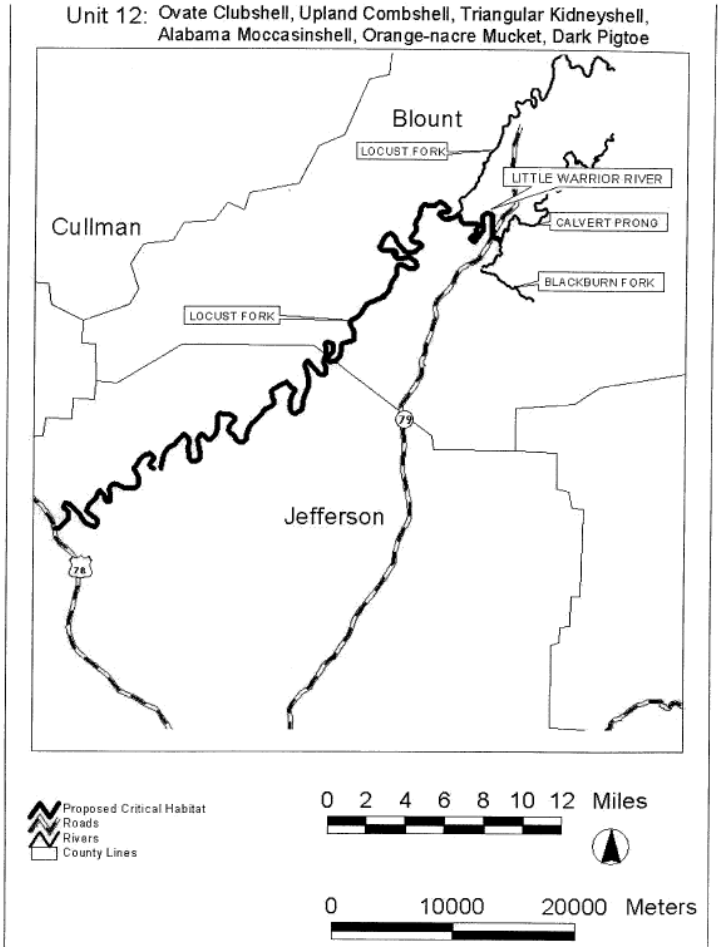
(xiv) Unit 12. Locust Fork and Little Warrior Rivers, Jefferson, Blount Counties, Alabama. This is a critical habitat unit for the ovate clubshell, upland combshell, triangular kidneyshell, Alabama moccasinshell, orange-nacre mucket, and dark pigtoe.

(A) Unit 12 includes the Locust Fork main stem from U.S. Highway 78 (T15S R4W S30), Jefferson County, upstream to the confluence of Little Warrior River (T13S R1W S3), Blount County, Alabama; and Little Warrior River from its confluence with the Locust Fork (T13S R1W S3), upstream to the confluence of Calvert Prong and Blackburn Fork (T13S R1W S12), Blount County, Alabama.

(B) Map of Unit 12 follows:



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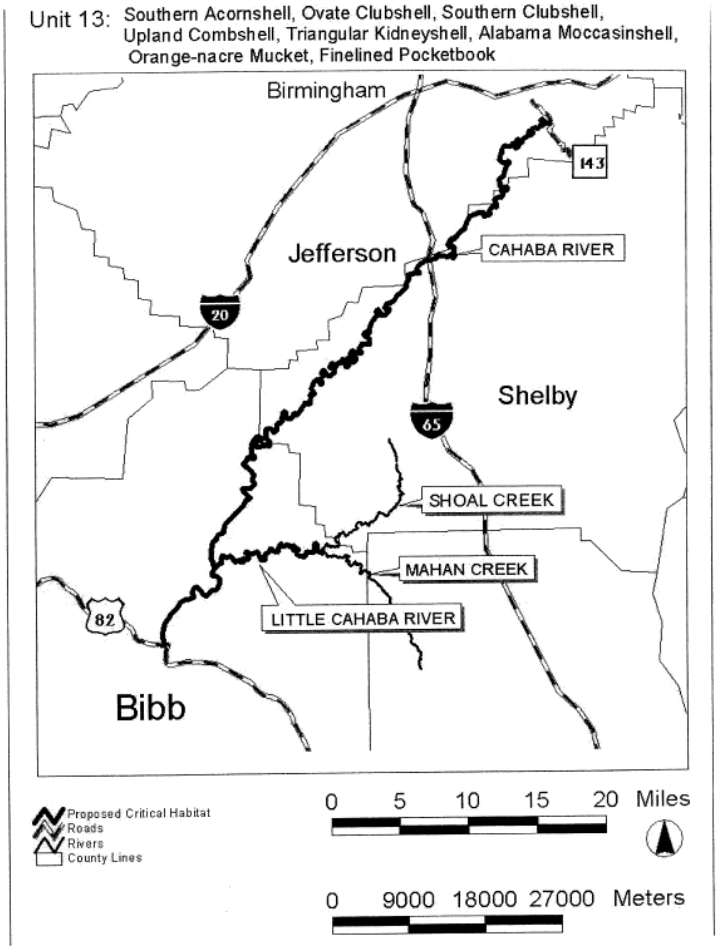
(xv) Unit 13. Cahaba River and Little Cahaba River, Jefferson, Shelby, Bibb Counties, Alabama. This is a critical habitat unit for the southern acornshell, ovate clubshell, southern clubshell, upland combshell, triangular kidneyshell, Alabama moccasinshell, orange-nacre mucket, and fine-lined pocketbook.

(A) Unit 13 includes the Cahaba River from U.S. Highway 82 (T23N R9E S26), Centerville, Bibb County, upstream to Jefferson County Road 143 (T18S R1E S33), Jefferson County, Alabama; and the Little Cahaba River from its confluence with the Cahaba River (T24N R10E S21), upstream to the confluence of Mahan and Shoal Creeks (T24N R11E S14), Bibb County, Alabama.

(B) Map of Unit 13 follows:



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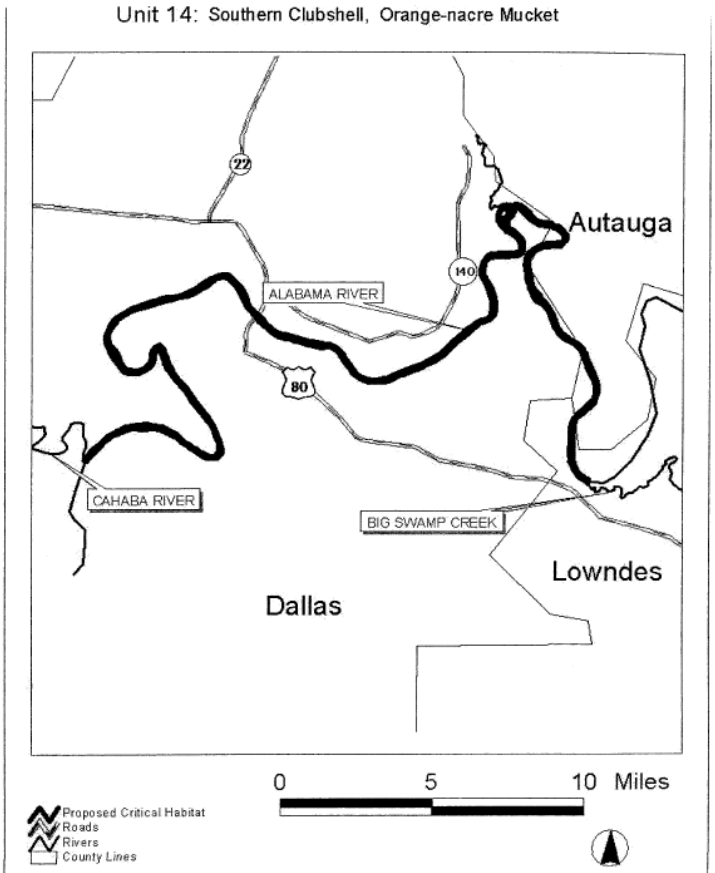
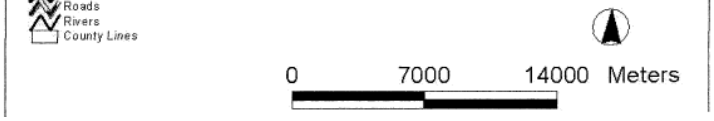
(xvi) Unit 14. Alabama River, Autauga, Lowndes, Dallas Counties, Alabama. This is a critical habitat unit for the southern clubshell and orange-nacre mucket.

(A) Unit 14 includes the Alabama River from the confluence of the Cahaba River (T16N R10E S32), Dallas County, upstream to the confluence of Big Swamp Creek (T15N R12E S1), Lowndes County, Alabama.

(B) Map of Unit 14 follows:





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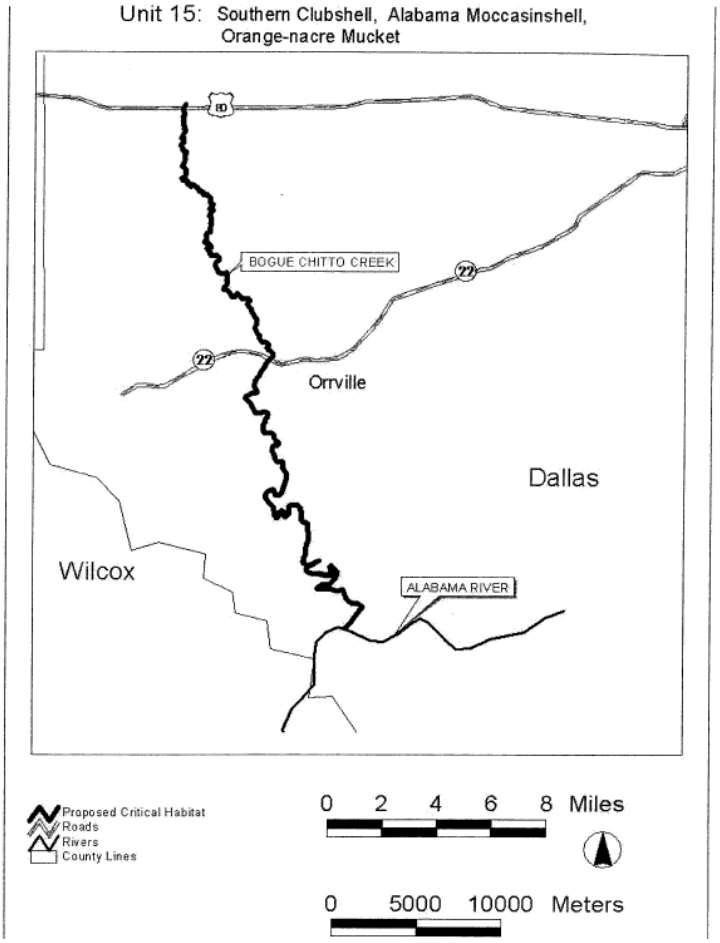
(xvii) Unit 15. Bogue Chitto Creek, Dallas County, Alabama. This is a critical habitat unit for the southern clubshell, Alabama moccasinshell, and orange-nacre mucket.

(A) Unit 15 includes the Bogue Chitto Creek main stem from its confluence with the Alabama River (T14N R8E S24), Dallas County, upstream to U.S. Highway 80 (T17N R7E S24), Dallas County, Alabama.

(B) Map of Unit 15 follows:



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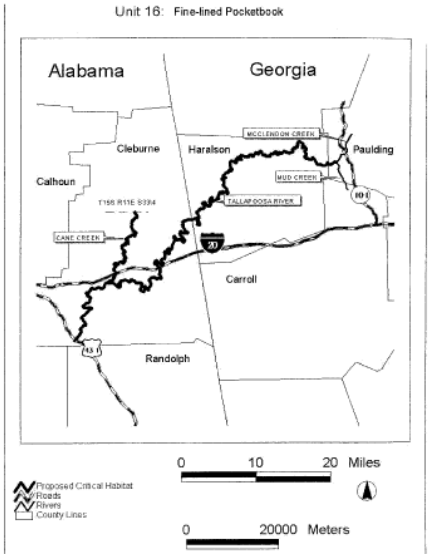
(xviii) Unit 16. Tallapoosa River, Cleburne County, Alabama, and Paulding, Haralson Counties, Georgia; Cane Creek, Cleburne County, Alabama. This is a critical habitat unit for the fine-lined pocketbook.

(A) Unit 16 includes the main stem Tallapoosa River from U.S. Highway 431 (T17S R10E S31), Cleburne County, Alabama, upstream to the confluence of McClendon and Mud Creeks (33°50'43" N 85°00'45" W), Paulding County, Georgia; and Cane Creek from its confluence with Tallapoosa River (T16S R10E S24), upstream to section 33/4 Line (T15S, R11E), Cleburne County, Alabama.

(B) Map of Unit 16 follows:



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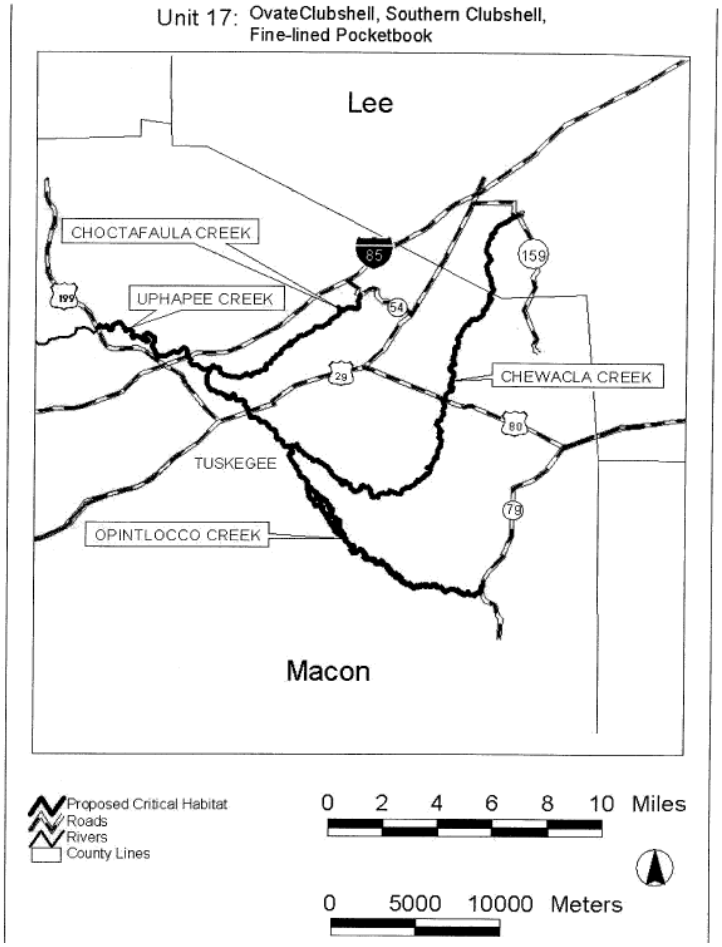
(xix) Unit 17. Uphapee, Choctafaula, and Chewacla Creeks, Macon, Lee Counties, Alabama. This is a critical habitat unit for the ovate clubshell, southern clubshell, and fine-lined pocketbook.

(A) Unit 17 includes the mainstem of Uphapee Creek from Alabama Highway 199 (T17N R23E S3), upstream to the confluence of Opintlocco and Chewacla Creeks (T17N R24E S26), Macon County, Alabama; Choctafaula Creek, from confluence with Uphapee Creek (T17N R24E S8), upstream to Macon County Road 54 (T18N R 25E S31), Macon County, Alabama; Chewacla Creek, from confluence with Opintlocco Creek (T17N R24E S26), Macon County, Alabama, upstream to Lee County Road 159 (T18N R26E S18), Lee County, Alabama; Opintlocco Creek, from confluence with Chewacla Creek (T17N R24E S26), upstream to Macon County Road 79 (T16N R25E S25) Macon County, Alabama.

(B) Map of Unit 17 follows:



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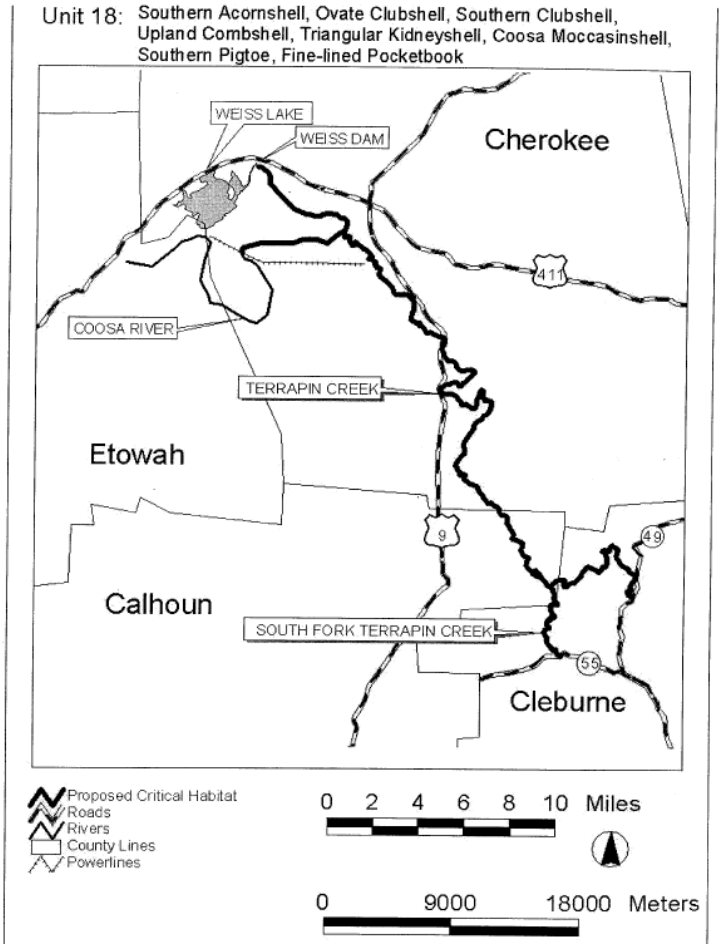
(xx) Unit 18. Coosa River (Old River Channel) and Terrapin Creek, Cherokee, Calhoun, Cleburne Counties, Alabama. This is a critical habitat unit for the southern acornshell, ovate clubshell, southern clubshell, upland combshell, triangular kidneyshell, Coosa moccasinshell, southern pigtoe, and fine-lined pocketbook.

(A) Unit 18 includes the Coosa River main stem from the power line crossing southeast of Maple Grove, Alabama (T10S R8E S35), upstream to Weiss Dam (T10S R8E S13), Cherokee County, Alabama; Terrapin Creek, 53 km (33 mi) extending from its confluence with the Old Coosa River channel (T10S R9E S28), Cherokee County, upstream to Cleburne County Road 49 (T13S R11E S15), Cleburne County, Alabama; South Fork Terrapin Creek, 7 km (4 mi), from its confluence with Terrapin Creek (T13S R11E S18), upstream to Cleburne County Road 55 (T13S R11E S30), Cleburne County, Alabama.

(B) Map of Unit 18 follows:



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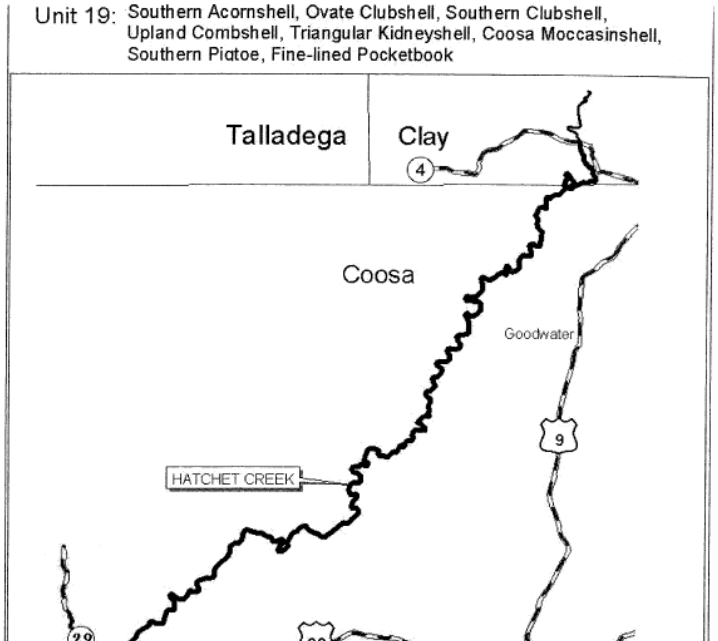
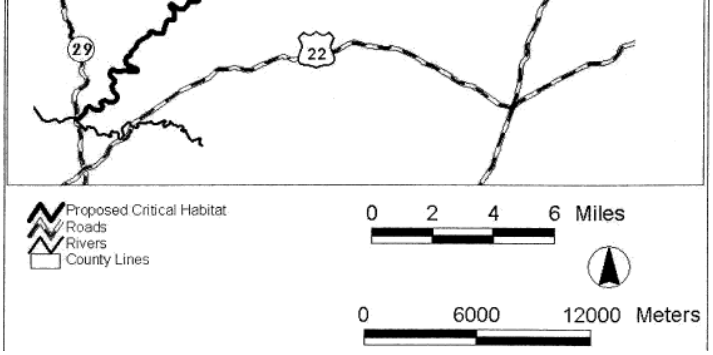
(xxi) Unit 19. Hatchet Creek, Coosa, Clay Counties, Alabama. This is a critical habitat unit for the southern acornshell, ovate clubshell, southern clubshell, upland combshell, triangular kidneyshell, Coosa moccasinshell, southern pigtoe, and fine-lined pocketbook.

(A) Unit 19 includes the main stem of Hatchet Creek from the confluence of Swamp Creek at Coosa County Road 29 (T22N R17E S26), Coosa County, Alabama, upstream to Clay County Road 4 (T22S R6E S17) Clay County, Alabama.

(B) Map of Unit 19 follows:





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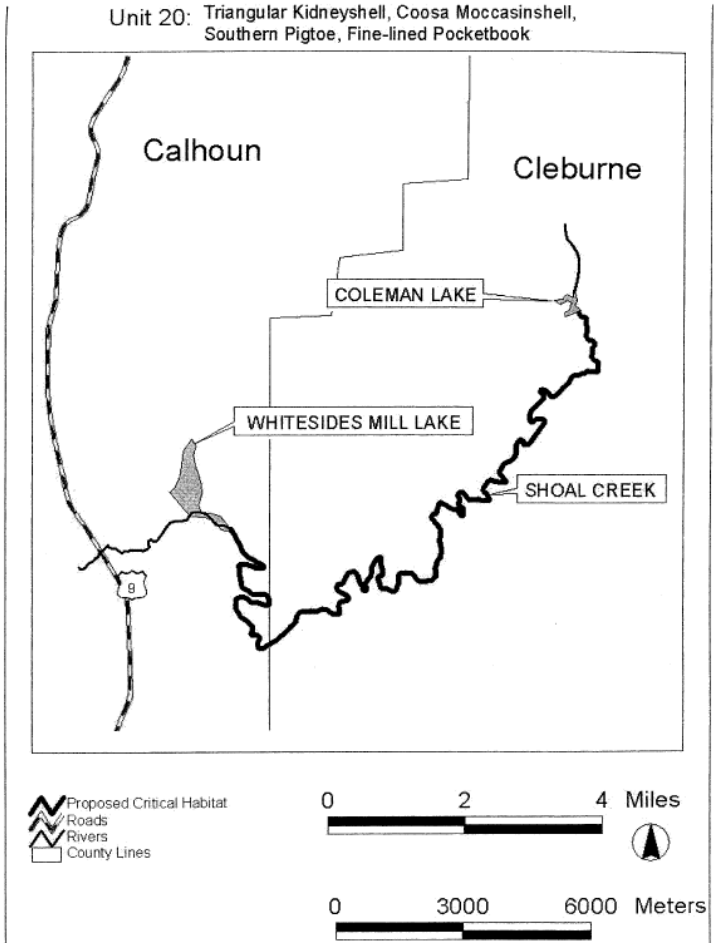
(xxii) Unit 20. Shoal Creek, Calhoun, Cleburne Counties, Alabama. This is a critical habitat unit for the triangular kidneyshell, Coosa moccasinshell, southern pigtoe, and fine-lined pocketbook.

(A) Unit 20 includes the main stem of Shoal Creek from the headwater of Whitesides Mill Lake (T15S R9E S12), Calhoun County, Alabama, upstream to the tailwater of Coleman Lake Dam (T14S R10E S26), Cleburne County, Alabama.

(B) Map of Unit 20 follows:



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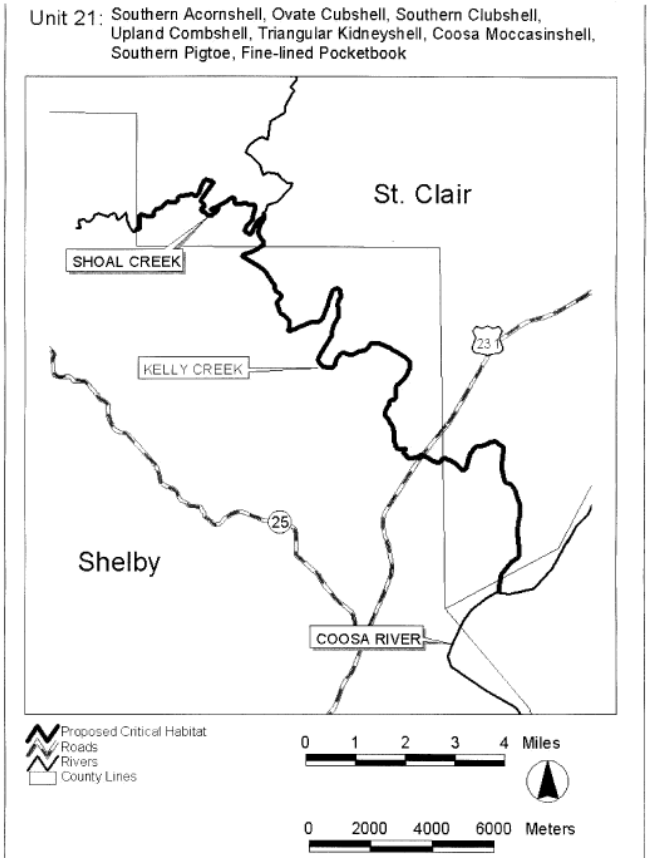
(xxiii) Unit 21. Kelly Creek and Shoal Creek, Shelby, St. Clair Counties, Alabama. This is a critical habitat unit for the southern acornshell, ovate clubshell, southern clubshell, upland combshell, triangular kidneyshell, Coosa moccasinshell, southern pigtoe, and fine-lined pocketbook.

(A) Unit 21 includes the Kelly Creek main stem extending from the confluence with the Coosa River (T19S R3E S5), upstream to the confluence of Shoal Creek (T17S R2E S28), St. Clair County, Alabama; and the main stem of Shoal Creek from the confluence with Kelly Creek (T17S R2E S28), St. Clair County, Alabama, upstream to the St. Clair/Shelby County Line (T17S R2E S30), St. Clair County, Alabama.

(B) Map of Unit 21 follows:



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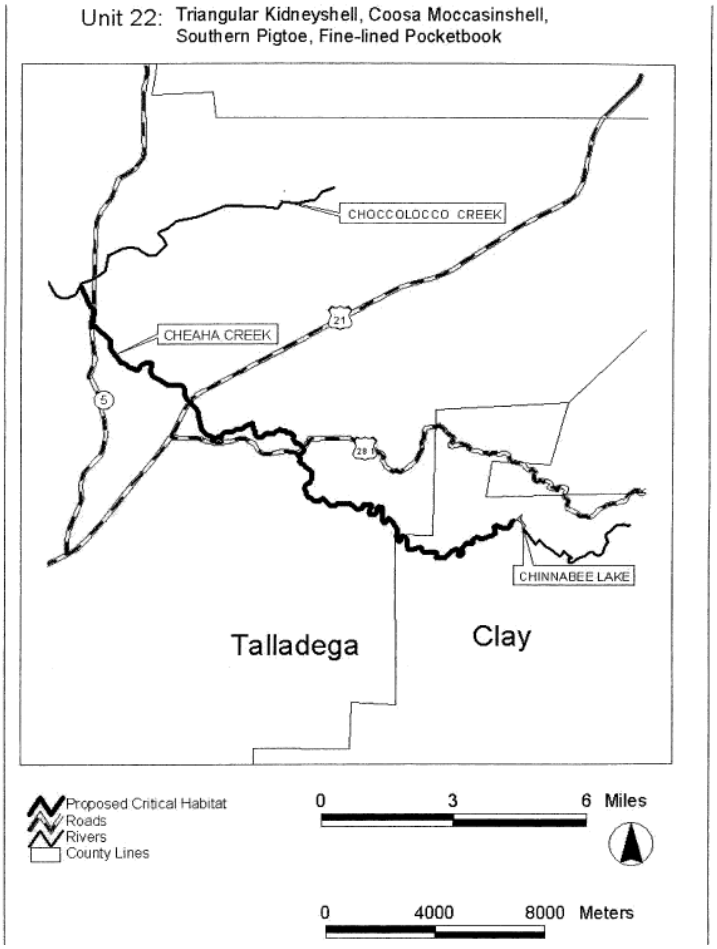
(xxiv) Unit 22. Cheaha Creek, Talladega, Clay Counties, Alabama. This is a critical habitat unit for the triangular kidneyshell, Coosa moccasinshell, southern pigtoe, and fine-lined pocketbook.

(A) Unit 22 includes the main stem of Cheaha Creek from its confluence with Choccolocco Creek (T17S R6E S19), Talladega County, Alabama, upstream to the tailwater of Chinnabee Lake Dam (T18S R7E S14), Clay County, Alabama.

(B) Map of Unit 22 follows:



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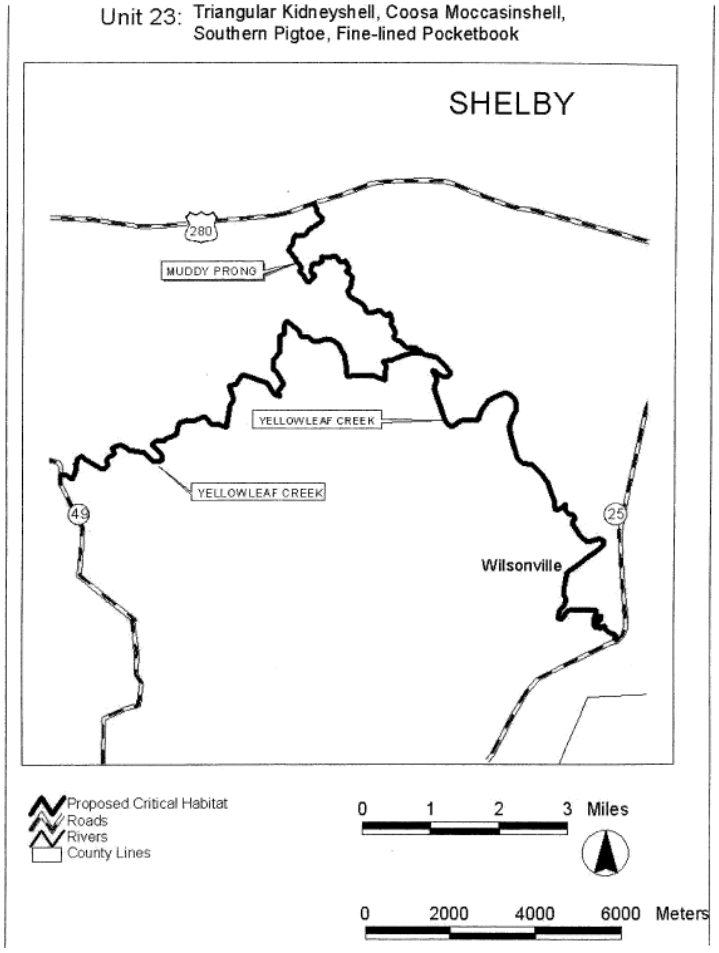
(xxv) Unit 23. Yellowleaf Creek and Mud Creek, Shelby County, Alabama. This is a critical habitat unit for the triangular kidneyshell, Coosa moccasinshell, southern pigtoe, and fine-lined pocketbook.

(A) Unit 23 includes the Yellowleaf Creek main stem from Alabama Highway 25 (T20S R2E S29), upstream to Shelby County Road 49 (T20S R1W S13); and the Muddy Prong main stem extending from its confluence with Yellowleaf Creek (T20S R1E S1), upstream to U.S. Highway 280 (T19S R1E S28), Shelby County, Alabama.

(B) Map of Unit 23 follows:



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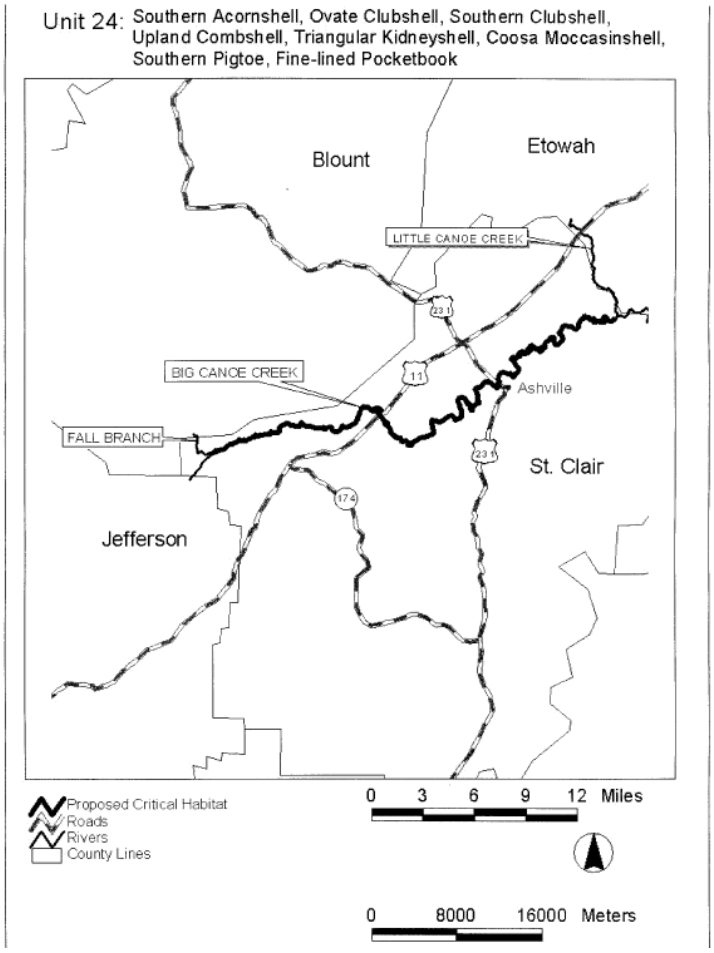
(xxvi) Unit 24. Big Canoe Creek, St. Clair County, Alabama. This is a critical habitat unit for the southern acornshell, ovate clubshell, southern clubshell, upland combshell, triangular kidneyshell, Coosa moccasinshell, southern pigtoe, and fine-lined pocketbook.

(A) Unit 24 includes the main stem of Big Canoe Creek from its confluence with Little Canoe Creek at the St. Clair/Etowah County line (T13S R5E S17), St. Clair County, upstream to the confluence of Fall Branch (T14S R1E S28) St. Clair County, Alabama.

(B) Map of Unit 24 follows:



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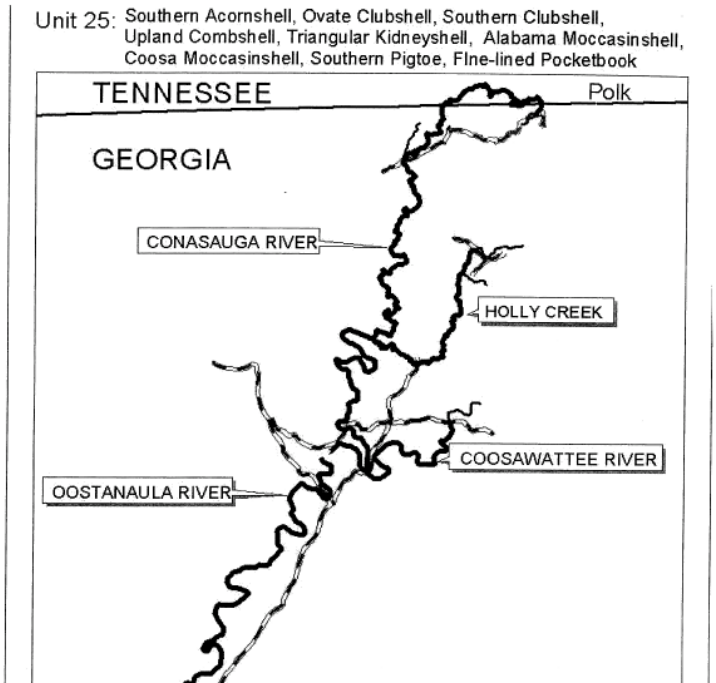
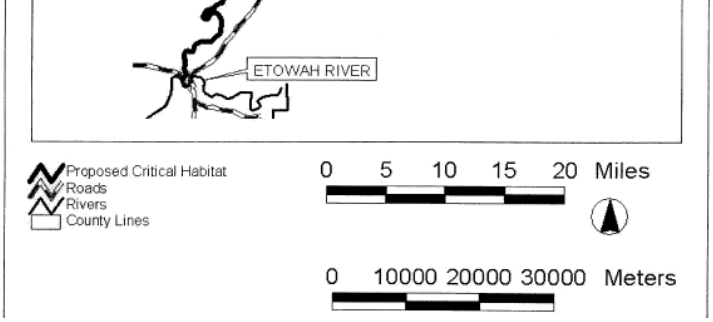
(xxvii) Unit 25. Oostanaula, Coosawattee, and Conasauga Rivers, and Holly Creek, Floyd, Gordon, Whitfield, Murray Counties, Georgia; Bradley, Polk Counties, Tennessee. This is a critical habitat unit for the southern acornshell, ovate clubshell, southern clubshell, upland combshell, triangular kidneyshell, Alabama moccasinshell, Coosa moccasinshell, southern pigtoe, and fine-lined pocketbook.

(A) Unit 25 includes the Oostanaula River main stem from its confluence with the Etowah River, Floyd County, Georgia (34°15'13" N, 85°10'35" W), upstream to the confluence of the Conasauga and Coosawattee River, Gordon County, Georgia (34°32'32" N, 84°54'12 " W); the Coosawattee River main stem from its confluence with the Conasauga River (34°32'32 " N, 84°54'12 " W), upstream to Georgia State Highway 136, Gordon County, Georgia (34°36'49 " N, 84°46'43 " W); the Conasauga River main stem from confluence with the Coosawattee River (34°32'32 " N, 84°54'13 " W), Gordon County, Georgia, upstream through Bradley and Polk Counties, Tennessee, to Murray County Road 2 (34°58'27 " N, 84°38'43 " W), Murray County, Georgia; and the mainstem of Holly Creek from its confluence with the Conasauga River (34°42'12 " N, 84°53'29 " W), upstream to its confluence with Rock Creek, Murray County, Georgia (34°46'59 " N, 84°45'25 " W).

(B) Map of Unit 25 follows:





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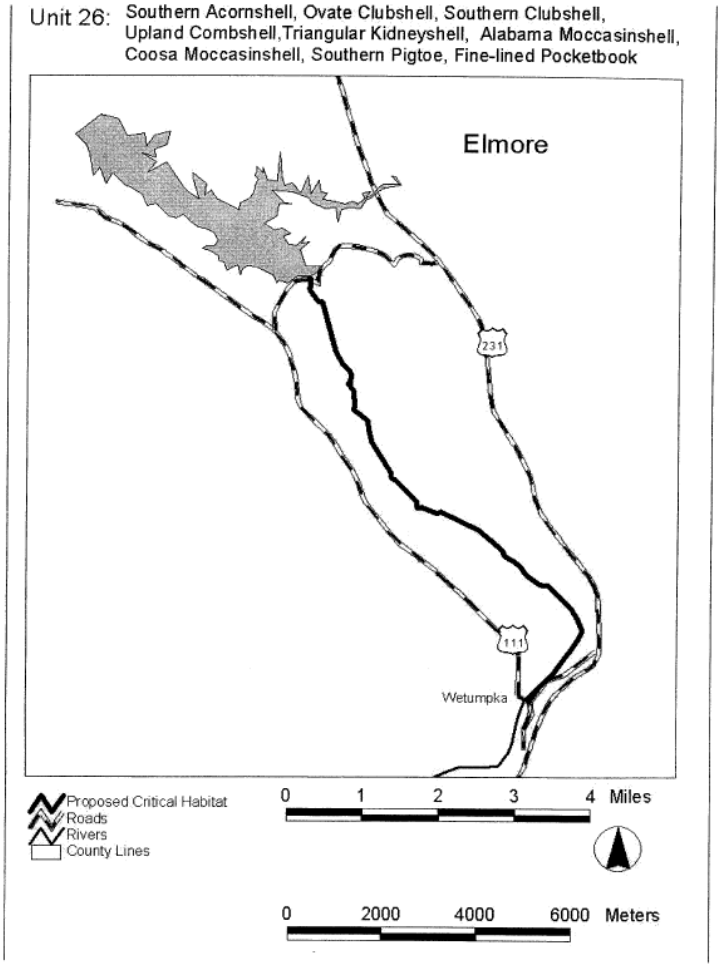
(xxviii) Unit 26. Lower Coosa River, Elmore County, Alabama. This is a critical habitat unit for the southern acornshell, ovate clubshell, southern clubshell, upland combshell, triangular kidneyshell, Alabama moccasinshell, Coosa moccasinshell, southern pigtoe, and fine-lined pocketbook.

(A) Unit 26 includes the Coosa River main stem from Alabama State Highway 111 bridge (T18N R18/19E S24/19), upstream to Jordan Dam (T19N R18E S22), Elmore County, Alabama.

(B) Map of Unit 26 follows:



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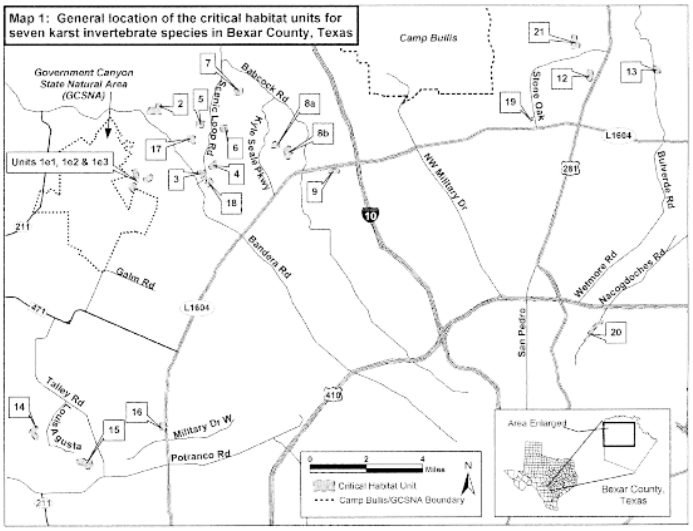
(g) *Arachnids.*

Cokendolpher cave harvestman (Texella cokendolpheri)

(1) Critical habitat for the Cokendolpher cave harvestman occurs in Unit 20 as described below and depicted on Map 1 (index map) and Map 2 below. All coordinates are geographic longitude and latitude, decimal degree coordinate pairs, referenced to North American Horizontal Datum 1983. Coordinates were derived from 2001 digital orthophotographs.

(2) Map 1—Index map of critical habitat units for karst invertebrate species in Bexar County, Texas—follows:



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(3) The primary constituent elements include:

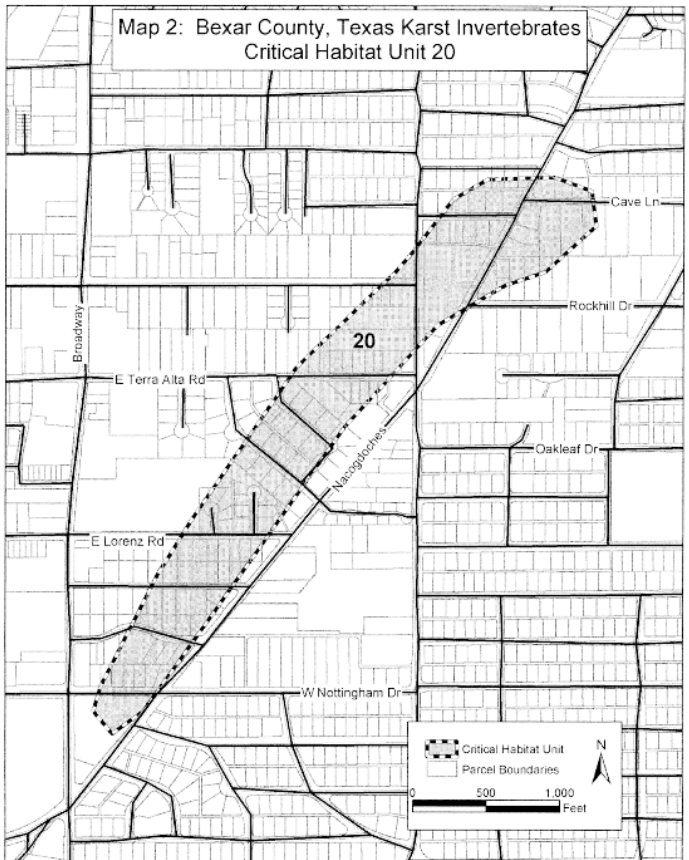
(i) The physical features of karst-forming rock containing subterranean spaces with stable temperatures, high humidities (near saturation), and suitable substrates (for example, spaces between and underneath rocks suitable for foraging and sheltering); and

(ii) The biological features of a healthy surface community of native plants (for example, juniper-oak woodland) and animals (for example, cave crickets) surrounding the karst feature that provide nutrient input and buffer the karst ecosystem from adverse effects (from, for example, nonnative species invasions, contaminants, and fluctuations in temperature and humidity).

(4) Existing human-constructed, above-ground, impervious structures do not contain the primary constituent elements and are not considered to be critical habitat. Such features and structures include, but are not limited to, buildings and paved roads. However, subsurface areas under these structures are considered to be critical habitat since subterranean spaces containing these species and/or transmitting moisture and nutrients through the karst ecosystem extend, in some cases, underneath these existing human-constructed structures. Landscaped areas associated with existing human-constructed structures also are not considered critical habitat.

(5) Unit 20 (23 ha (57 ac)) is an area bounded by points with the following coordinates: –98.4582897, 29.5087489; –98.4575517, 29.5091199; –98.4561171, 29.5091615; –98.4553228, 29.5088978; –98.4552343, 29.5082394; –98.4563160, 29.5073726; –98.4571671, 29.5071204; –98.4586325, 29.5063688; –98.4606616, 29.5044311; –98.4637341, 29.5006275; –98.4649997, 29.4990919; –98.4656642, 29.4986719; –98.4660631, 29.4991019; –98.4658881, 29.4995898; –98.4646589, 29.5017013; –98.4639396, 29.5027162; –98.4616730, 29.5055952; –98.4595256, 29.5073856; –98.4591719, 29.5077488; –98.4582897, 29.5087489.

(6) Map 2—Unit 20 follows:



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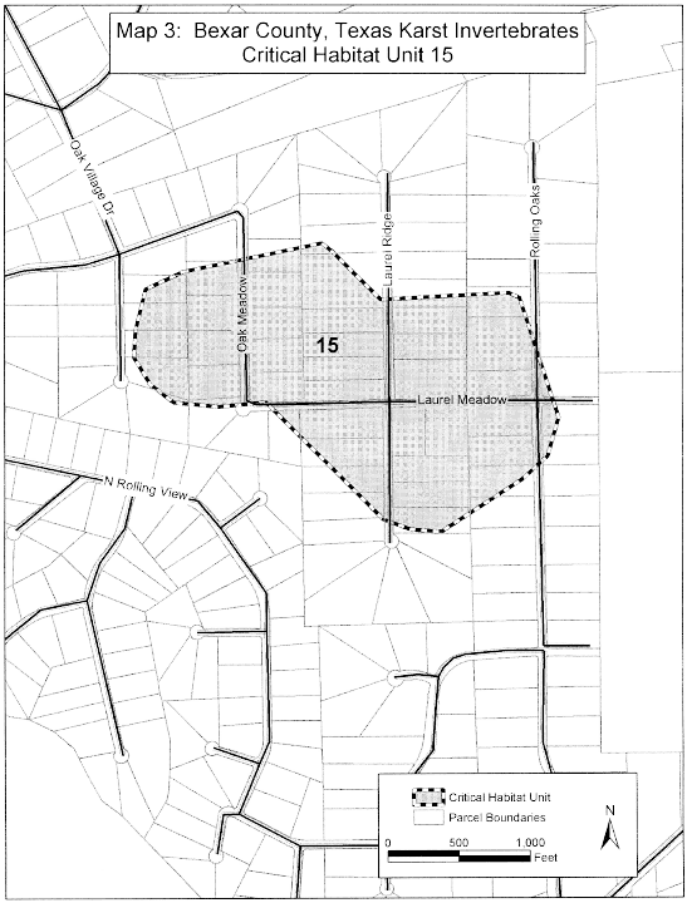
Braken Bat Cave meshweaver (Cicurina venii)

(1) Critical habitat for the Braken Bat Cave meshweaver in Bexar County, Texas, occurs in Unit 15 as described below and depicted on Map 3 below. Unit 15 also is depicted on Map 1 (index map) provided in the entry for Cokendolpher cave harvestman in this paragraph (g). The primary constituent elements and statements regarding existing structures and associated landscaping, as described in the entry for Cokendolpher cave harvestman in this paragraph (g), are identical for this species.

(2) Unit 15 (34 ha (85 ac)) is an area bounded by points with the following coordinates: –98.7631005, 29.4388531; –98.7600316, 29.4394009; –98.7598094, 29.4392533; –98.7587180, 29.4382984; –98.7558932, 29.4384257; –98.7556537, 29.4383265; –98.7547983, 29.4359982; –98.7550418, 29.4352415; –98.7555963, 29.4347910; –98.7573878, 29.4337784; –98.7580646, 29.4338220; –98.7586605, 29.4340159; –98.7612682, 29.4363049; –98.7623440, 29.4362183; –98.7633120, 29.4363085; –98.7638206, 29.4366668; –98.7641806, 29.4371861; –98.7641397, 29.4377268; –98.7639175, 29.4385170; –98.7631005, 29.4388531.

(3) Map 3—Unit 15 follows:



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Kauai cave wolf spider (Adelocosa anops).

(1) Critical habitat units are depicted for the island of Kauai, Hawaii, on the maps below.

(2) The primary constituent elements for the Kauai cave wolf spider are:

(i) The presence of subterranean spaces from 5 mm to 25 cm (0.2 in to 10 in) at their narrowest point (collectively termed “mesocaverns”) and/or cave passages greater than 25 cm (>10 in);

(ii) Dark and/or stagnant air zones that maintain relative humidity at saturation levels (≥100 percent); and

(iii) The presence in these types of mesocaverns or caves of roots from living, nontoxic plants such as, but not limited to, ohia (*Metrosideros polymorpha*), maiapilo (*Capparis sandwichiana*), and aalii (*Dodonea viscosa*).

(3) All critical habitat areas contain one or more of the primary constituent elements for the Kauai cave wolf spider.

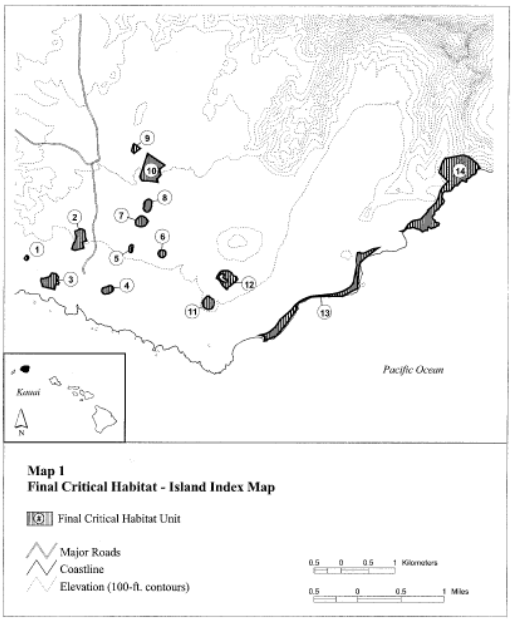
(4)(i) Existing human-constructed features and structures within the boundaries of mapped units that involved trenching, filling, or excavation resulting in below-surface modification or alteration would not contain either of the primary constituent elements and are excluded from critical habitat designation. Such features and structures include but are not limited to: Homes and buildings for which the underlying bedrock has been altered for their construction or through incorporation of or connection to buried structural foundations, septic tanks, city sewage and drainage systems, or water or

underground electrical supply corridors; paved roads; and areas previously or currently used as a quarry.

(ii) Areas that have been modified on the surface but without trenching, filling, or excavation resulting in below-surface modification or alteration are included in the critical habitat designation, even if they are adjacent to areas that have undergone below-surface modification.

(5) Critical habitat units are described below. Coordinates in UTM Zone 4 with units in meters using North American Datum of 1983 (NAD83). The following map shows the general locations of the 14 critical habitat units designated on the island of Kauai.

(i) Note: Map 1—Index map follows:



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(6) Unit 1—(<1 ha (1 ac)):

(i) Unit 1 consists of the following 10 boundary points with the following coordinates in UTM Zone 4, with the units in meters, using North American Datum of 1983 (NAD83): Start at 450554, 2420457; 450546, 2420468; 450576, 2420510; 450586, 2420518; 450607, 2420516; 450624, 2420502; 450625, 2420480; 450618, 2420452; 450600, 2420437; 450574, 2420434; return to starting point.

(ii) Note: Unit 1 is depicted on Map 2—Units 1, 2, 3, and 4—below.

(7) Unit 2—(7 ha (16 ac)):

(i) Unit 2 consists of the following 16 boundary points with the following coordinates in UTM Zone 4, with the units in meters, using North American Datum of 1983 (NAD83): Start at 451483, 2420974; 451539, 2420991; 451583, 2421015; 451622, 2421014; 451667, 2420984; 451677, 2420926; 451680, 2420869; 451705, 2420799; 451622, 2420769; 451650, 2420664; 451488, 2420620; 451468, 2420624; 451433, 2420642; 451470, 2420758; 451501, 2420801; 451510, 2420870; return to starting point.

(ii) Note: Unit 2 is depicted on Map 2—Units 1, 2, 3, and 4—below.

(8) Unit 3—(6 ha (16 ac)):

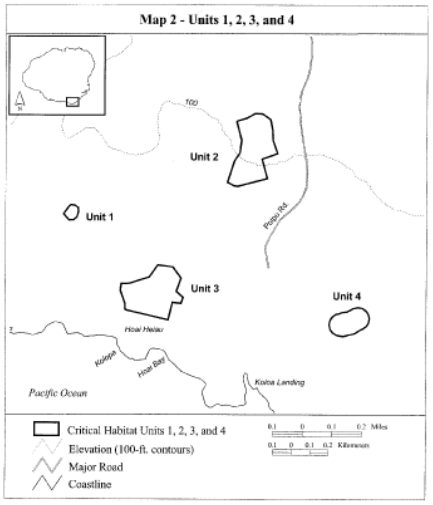
(i) Unit 3 consists of the following 14 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 450881, 2419947; 450879, 2419981; 450855, 2420053; 450859, 2420089; 450903, 2420089; 451012, 2420125; 451058, 2420191; 451138, 2420180; 451184, 2420119; 451159, 2420048; 451194, 2420014; 451183, 2419982; 451136, 2419987; 451114, 2419892; return to starting point.

(ii) Note: Unit 3 is depicted on Map 2—Units 1, 2, 3, and 4—below.

(9) Unit 4—(2 ha (6 ac)):

(i) Unit 4 consists of the following 33 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 452087, 2419809; 452063, 2419804; 452053, 2419805; 452040, 2419807; 452027, 2419811; 452007, 2419824; 451994, 2419844; 451989, 2419867; 451994, 2419890; 452007, 2419910; 452027, 2419923; 452045, 2419927; 452053, 2419932; 452076, 2419936; 452082, 2419936; 452084, 2419936; 452090, 2419939; 452095, 2419942; 452096, 2419943; 452118, 2419954; 452145, 2419960; 452168, 2419955; 452188, 2419942; 452201, 2419922; 452206, 2419899; 452201, 2419876; 452188, 2419856; 452172, 2419844; 452153, 2419835; 452132, 2419822; 452123, 2419817; 452099, 2419812; 452093, 2419812; return to starting point.

(ii) Note: Unit 4 is depicted on Map 2—Units 1, 2, 3, and 4—which follows:



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(10) Unit 5—(1 ha (2 ac)):

(i) Unit 5 consists of the following 35 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 452493, 2420608; 452493, 2420613; 452493, 2420616; 452496, 2420639; 452492, 2420652; 452491, 2420660; 452492, 2420669; 452497, 2420683; 452498, 2420686; 452502, 2420694; 452516, 2420711; 452518, 2420713; 452528, 2420720; 452540, 2420722; 452552, 2420720; 452561, 2420713; 452568, 2420704; 452570, 2420692; 452568, 2420680; 452564, 2420673; 452553, 2420660; 452556, 2420649; 452557, 2420641; 452557, 2420637; 452554, 2420613; 452555, 2420611; 452555, 2420607; 452553, 2420595; 452546, 2420585; 452536, 2420579; 452525, 2420576; 452513, 2420579; 452503, 2420585; 452496, 2420595; 452494, 2420602; return to starting point.

(ii) Unit 5 is depicted on Map 3—Units 5, 6, 7, and 8—below.

(11) Unit 6—(2 ha (4 ac)):

(i) Unit 6 consists of the following 21 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 453052, 2420607; 453065, 2420616; 453078, 2420622; 453101, 2420626; 453126, 2420621; 453139, 2420616; 453154, 2420606; 453164, 2420591; 453167, 2420579; 453169, 2420551; 453165, 2420533; 453156, 2420517; 453141, 2420500; 453127, 2420490; 453109, 2420486; 453078, 2420490; 453053, 2420505; 453042, 2420522; 453034, 2420543; 453032, 2420559; 453036, 2420585; return to starting point.

(ii) Unit 6 is depicted on Map 3—Units 5, 6, 7, and 8—below.

(12) Unit 7—(3 ha (9 ac)):

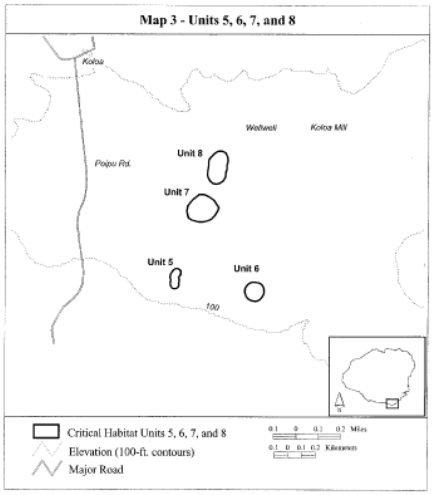
(i) Unit 7 consists of the following 7 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 452623, 2421100; 452812, 2421077; 452831, 2421041; 452816, 2421016; 452786, 2420896; 452590, 2420946; 452608, 2421015; return to starting point.

(ii) Unit 7 is depicted on Map 3—Units 5, 6, 7, and 8—below.

(13) Unit 8—(2 ha (7 ac)):

(i) Unit 8 consists of the following 33 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 452763, 2421383; 452759, 2421402; 452760, 2421421; 452767, 2421462; 452766, 2421477; 452768, 2421497; 452771, 2421510; 452780, 2421523; 452812, 2421556; 452824, 2421564; 452831, 2421567; 452848, 2421571; 452857, 2421571; 452875, 2421567; 452890, 2421557; 452899, 2421542; 452904, 2421531; 452907, 2421514; 452908, 2421497; 452904, 2421480; 452899, 2421471; 452902, 2421454; 452900, 2421439; 452894, 2421422; 452891, 2421412; 452891, 2421402; 452888, 2421385; 452880, 2421368; 452871, 2421355; 452844, 2421338; 452822, 2421335; 452799, 2421339; 452778, 2421357; return to starting point.

(ii) Unit 8 is depicted on Map 3—Units 5, 6, 7, and 8—which follows:



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(14) Unit 9—(1 ha (4 ac)):

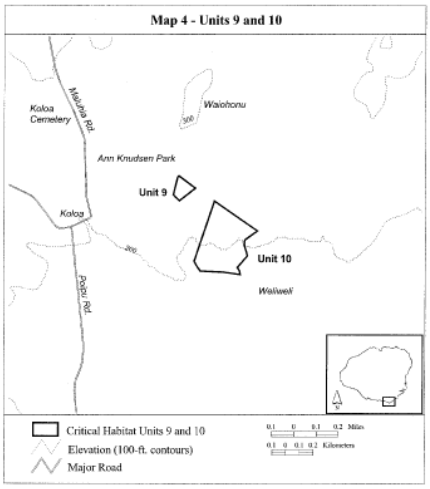
(i) Unit 9 consists of the following 5 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 452568, 2422604; 452577, 2422610; 452696, 2422521; 452580, 2422429; 452537, 2422471; return to starting point.

(ii) Note: Unit 9 is depicted on Map 4—Units 9 and 10—below.

(15) Unit 10—(14 ha (35 ac)):

(i) Unit 10 consists of the following 14 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 452688, 2421988; 452834, 2422427; 453145, 2422210; 453061, 2422147; 453053, 2422133; 453053, 2422102; 453061, 2422078; 453074, 2422029; 453002, 2421944; 453015, 2421922; 453022, 2421892; 452896, 2421910; 452733, 2421917; 452705, 2421959; return to starting point.

(ii) Note: Unit 10 is depicted on Map 4—Units 9 and 10—which follows:



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(16) Unit 11—(4 ha (10 ac)):

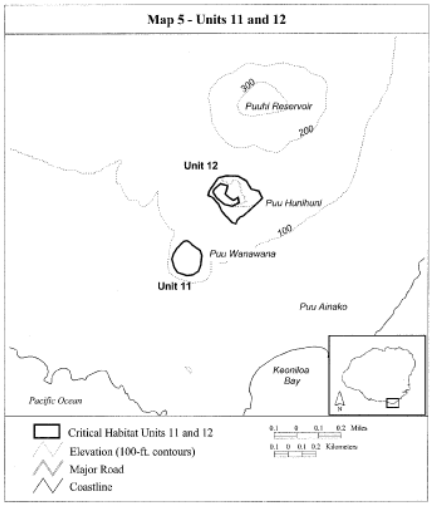
(i) Unit 11 consists of the following 17 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 453958, 2419773; 453976, 2419766; 453999, 2419741; 454054, 2419702; 454068, 2419667; 454060, 2419596; 454042, 2419553; 454005, 2419528; 453962, 2419521; 453894, 2419545; 453872, 2419573; 453862, 2419600; 453852, 2419642; 453862, 2419676; 453887, 2419718; 453912, 2419742; 453936, 2419768; return to starting point.

(ii) Note: Unit 11 is depicted on Map 5—Units 11 and 12—below.

(17) Unit 12 (6 ha (16 ac)):

(i) Unit 12 consists of the following 21 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 454185, 2420229; 454242, 2420243; 454326, 2420241; 454387, 2420207; 454420, 2420147; 454475, 2420133; 454502, 2420080; 454474, 2420055; 454366, 2419954; 454341, 2419944; 454321, 2419921; 454311, 2419895; 454286, 2419903; 454264, 2419927; 454229, 2419962; 454208, 2419993; 454186, 2420038; 454169, 2420058; 454145, 2420086; 454112, 2420103; 454120, 2420133; return to starting point.

(ii) Note: Unit 12 is depicted on Map 5—Units 11 and 12—which follows:



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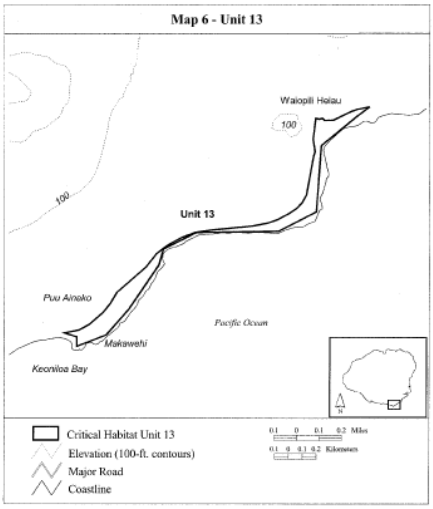
(18) Unit 13—(21 ha (52 ac)):

(i) Unit 13 consists of the following 43 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 457108, 2420666; 457027, 2420606; 456763, 2420391; 456727, 2419912; 456456, 2419772; 455868, 2419764; 455633, 2419645; 455601, 2419531; 455389, 2419219; 455225, 2419029; 455014, 2418947; 455014, 2419015; 454926, 2419043; 455027, 2419064; 455102, 2419103; 455202, 2419192; 455255, 2419258; 455300, 2419334; 455508, 2419515; 455586, 2419614; 455664, 2419674; 455767, 2419730; 455859, 2419764; 455969, 2419780; 456212, 2419805; 456272, 2419811; 456376, 2419831; 456451, 2419859; 456531, 2419900; 456583, 2419935; 456627, 2419981; 456656, 2420036; 456682, 2420173; 456709, 2420316; 456718, 2420343; 456704, 2420433; 456723, 2420583; 456747, 2420580; 456771, 2420584; 456786, 2420569; 456848, 2420572; 456979, 2420634; 457022, 2420649; return to starting point.

(ii) Note: Unit 13 is depicted on Map 6—Unit 13—which follows:



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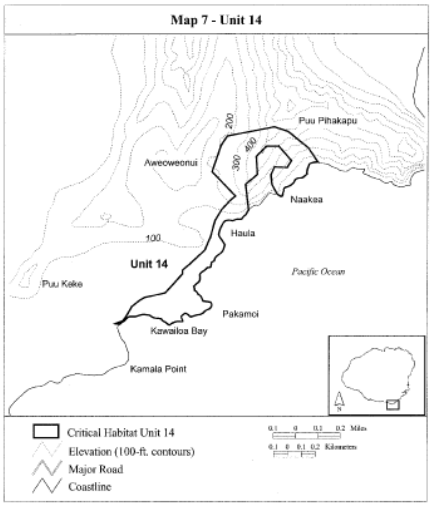
(19) Unit 14—(39 ha (96 ac)):

(i) Unit 14 consists of the following 47 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Coastline. 457575, 2420977; 457548, 2420981; 457598, 2421002; 457624, 2421039; 457624, 2421039; 457624, 2421039; 457664, 2421105; 457715, 2421146; 457755, 2421170; 457901, 2421204; 458025, 2421342; 458025, 2421367; 458078, 2421412; 458078, 2421413; 458078, 2421413; 458184, 2421510; 458226, 2421607; 458226, 2421607; 458226, 2421607; 458259, 2421727; 458308, 2421809; 458371, 2421876; 458405, 2421905; 458237, 2422080; 458301, 2422271; 458346, 2422339; 458686, 2422403; 458785, 2422371; 458932, 2422252; 458997, 2422153; Coastline. 458706, 2421920; 458670, 2421988; 458662, 2422059; 458688, 2422116; 458778, 2422112; 458809, 2422160; 458719, 2422266; 458630, 2422266; 458556, 2422191; 458563, 2422061; 458479, 2421989; 458500, 2421803.

(ii) Note: Unit 14 is depicted on Map 7—Unit 14—which follows:



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Madla Cave meshweaver (Cicurina madla)

(1) Critical habitat for the Madla Cave meshweaver in Bexar County, Texas, occurs in Units 2, 3, 5, 8b, and 17 as described below and depicted on Maps 4 through 7 below. These units also are depicted on Map 1 (index map) provided in the entry for Cokendolpher cave harvestman in this paragraph (g). The primary constituent elements and statements regarding existing structures and associated landscaping, as described in the entry for Cokendolpher cave harvestman in this paragraph (g), are identical for this species.

(2) Four caves and their associated karst management areas established under the La Cantera section 10 (a)(1)(B) permit are within the boundaries of units but are not designated as critical habitat. These include Helotes Blowhole and Helotes Hilltop caves and the surrounding approximately 10 ha (25 ac) (within Unit 3); Hills and Dales Pit and the surrounding approximately 28 ha (70 ac) (within Unit 8b); and Madla Cave and the surrounding 2 ha (5 ac) (within Unit 17).

(3) Unit 2 (37 ha (92 ac)) is an area bounded by points with the following coordinates: –98.7233687, 29.6171088; –98.7232109, 29.6176729; –98.7226506, 29.6187073; –98.7223227, 29.6191855; –98.7219946, 29.6195016; –98.7215653, 29.6198980; –98.7214108, 29.6206847; –98.7175298, 29.6206847; –98.7174011, 29.6219810; –98.7170539, 29.6225993; –98.7162170, 29.6229506; –98.7153881, 29.6229101; –98.7147133, 29.6225995; –98.7143375, 29.6220053; –98.7142667, 29.6214953; –98.7144462, 29.6206782; –98.7144750, 29.6170924; –98.7145361, 29.6170162; –98.7165027, 29.6170258; –98.7163850, 29.6174867; –98.7177246, 29.6172351; –98.7177252, 29.6170317; –98.7211420, 29.6170764; –98.7233687, 29.6171088.

(4) Map 4—Unit 2 follows:

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(5) Unit 3 (17 ha (41 ac)) is an area bounded by points with the following coordinates: –98.6924522, 29.5880654; –98.6884953, 29.5878232; –98.6883750, 29.5869448; –98.6879295, 29.5850798; –98.6894469, 29.5850833; –98.6906186, 29.5841182; –98.6929315, 29.5855036; –98.6936461, 29.5865268; –98.6931713, 29.5875652; –98.6924522, 29.5880654.

(6) Map 5—Unit 3 follows:

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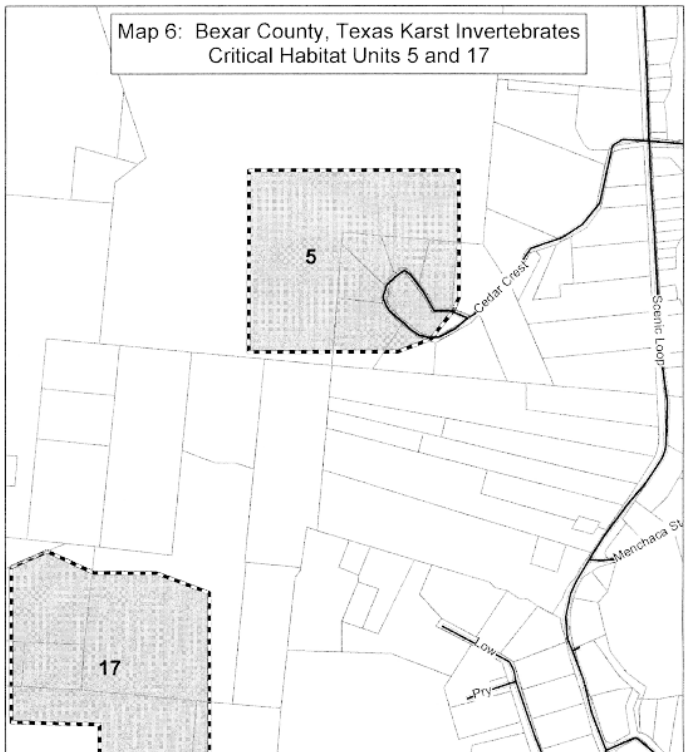
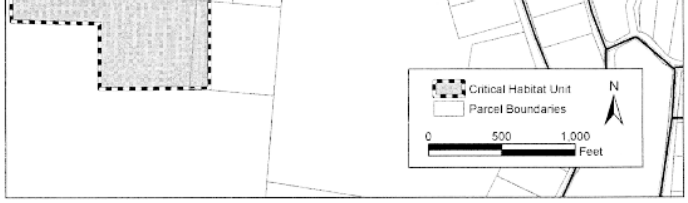
(7) Unit 5 (16 ha (40 ac)) is an area bounded by points with the following coordinates: –98.6935478, 29.6136095; –98.6890212, 29.6135990; –98.6890205, 29.6111931; –98.6891305, 29.6109546; –98.6896239, 29.6104067; –98.6903350, 29.6101696; –98.6935582, 29.6101663; –98.6935478, 29.6136095.

(8) Map 6—Unit 5 (which also depicts Unit 17) follows:





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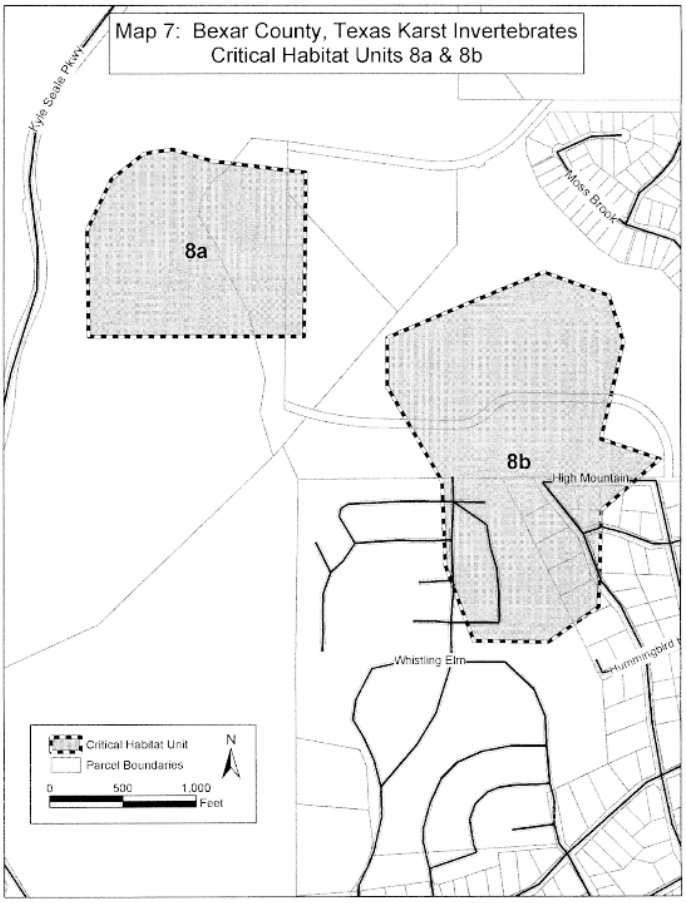
(9) Unit 8b (28 ha (69 ac)) is an area bounded by points with the following coordinates: –98.6429582, 29.5992695; –98.6395799, 29.6005152; –98.6381868, 29.6000556; –98.6378758, 29.5991778; –98.6383595, 29.5973398; –98.6370868, 29.5969511; –98.6383585, 29.5959854; –98.6384179, 29.5941526; –98.6395017, 29.5934820; –98.6411044, 29.5935108; –98.6417193, 29.5949384; –98.6417849, 29.5965421; –98.6429721, 29.5983417; –98.6429582, 29.5992695.

(10) Map 7—Unit 8b (which also depicts Unit 8a) follows:



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(11) Unit 17 (16 ha (40 ac)) is an area bounded by points with the following coordinates: –98.6986633, 29.6061189; –98.6978901, 29.6064178; –98.6968967, 29.6060042; –98.6955470, 29.6059909; –98.6944214, 29.6056088; –98.6944325, 29.6018959; –98.6967798, 29.6018910; –98.6967762, 29.6031320; –98.6986774, 29.6031773; –98.6986633, 29.6061189.

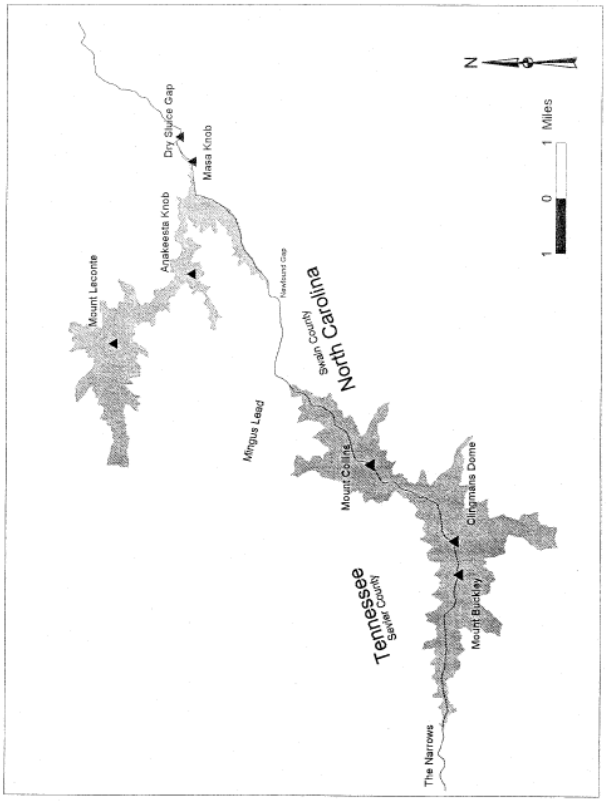
(12) For a map of unit 17, refer to Map 6—Unit 5 in paragraph (8) of this entry.

Robber Baron Cave meshweaver (Cicurina baronia)

(1) Critical habitat for the Robber Baron Cave meshweaver in Bexar County, Texas, occurs in Unit 20 as provided in the critical habitat unit description and depicted on Map 1 and Map 2 in the entry for Cokendolpher cave harvestman in this paragraph (g). The primary constituent elements and statements regarding existing structures and associated landscaping, as described in the entry for Cokendolpher cave harvestman in this paragraph (g), are identical for this species.

Spruce-Fir Moss Spider (Microhexura montivaga)

1. Critical habitat units and their ownership are described below and depicted in the following maps.



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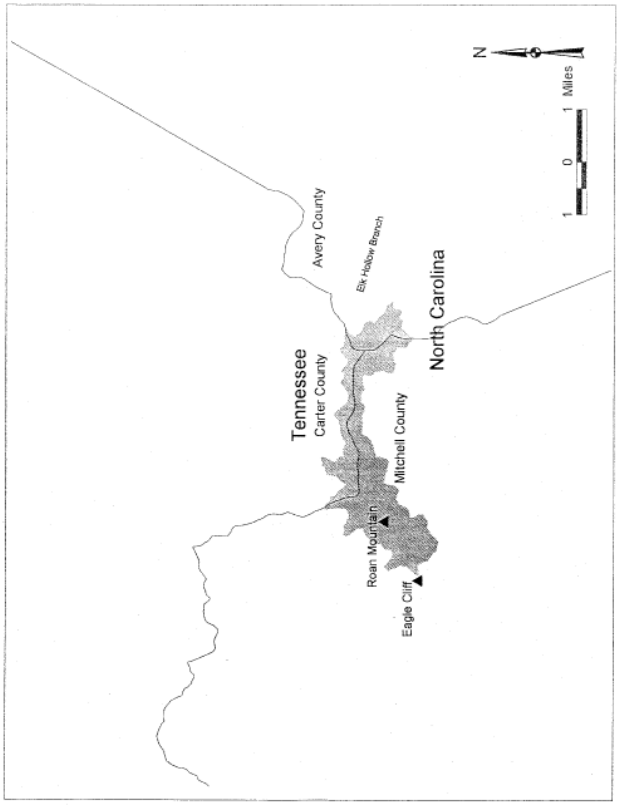
Unit 1: Swain County, North Carolina, and Sevier County, Tennessee—all portions of the GSMNP bounded to the north and to the south of the North Carolina/Tennessee State line (State line) by the 1,646-m (5,400-ft) contour, from the intersection of the 1,646-m (5,400-ft) contour with the State line, south of Mingus Lead, Tennessee, southwest and then west to the intersection of the 1,646-m (5,400-ft) contour with the State line, east of The Narrows and west of Jenkins Knob, North Carolina, and Tennessee.

Unit 2: Sevier County, Tennessee—all portions of the GSMNP at and above the 1,646-m (5,400-ft) contour, bounded on the southwest side by the North Carolina/Tennessee State line from the intersection of the State line with the 1,646-m (5,400-ft) contour near Dry Sluice Gap, southeast to the intersection of the State line with the 1,646-m (5,400-ft) contour at the head of Minnie Ball Branch, North Carolina, northwest of Newfound Gap, North Carolina, and Tennessee.



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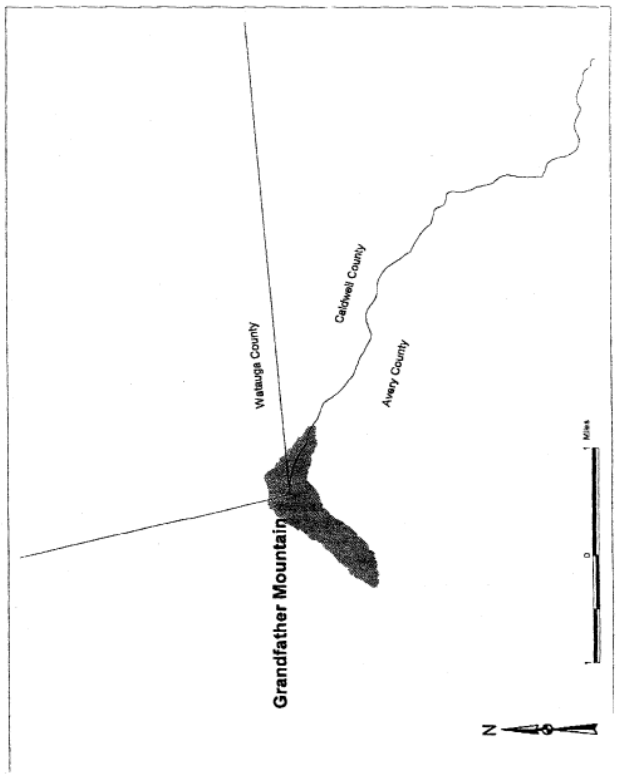
Unit 3: Avery and Mitchell Counties, North Carolina, and Carter County, Tennessee—all portions of

the Pisgah National Forest in North Carolina and the Cherokee National Forest in Tennessee, bounded to the north and to the south of the North Carolina/Tennessee State line by the 1,646-m (5,400-ft) contour, from the intersection of the 1,646-m (5,400-ft) contour with the State line north of Elk Hollow Branch, Avery County, North Carolina, and southwest of Yellow Mountain, Carter County, Tennessee, west to the 1,646-m (5,400-ft) contour at Eagle Cliff, Mitchell County, North Carolina.



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Unit 4: Avery, Caldwell, and Watauga Counties, North Carolina—all areas of Grandfather Mountain at and above the 1,646-m (5,400-ft) contour.

2. Within these areas, the primary constituent elements include:

(i) Fraser fir or fir-dominated spruce-fir forests at and above 1,646 m (5,400 ft) in elevation; and

(ii) Moderately thick and humid, but not wet, moss (species in the genus *Dicranodontium*, and possibly *Polytrichum*) and/or liverwort mats on rock surfaces that are adequately sheltered from the sun and rain (by overhang and aspect) and include a thin layer of humid soil and/or humus between the moss and rock surface.

3. Existing human structures and other features not containing all of the primary constituent elements are not considered critical habitat.

(h) *Crustaceans.*

Kauai cave amphipod (Spelaeorchestia koloana)

(1) Critical habitat units are depicted for the island of Kauai, Hawaii, on the maps below.

(2) The primary constituent elements for the Kauai cave amphipod are:

(i) The presence of subterranean spaces from 5 mm to 25 cm (0.2 in to 10 in) at their narrowest point (collectively termed “mesocaverns”) and/or cave passages greater than 25 cm (>10 in);

(ii) Dark and/or stagnant air zones that maintain relative humidity at saturation levels (≥100 percent); and

(iii) The presence in these types of mesocaverns or caves of roots from living, nontoxic plants such as, but not limited to, ohia (*Metrosideros polymorpha*), maiapilo (*Capparis sandwichiana*), and aalii (*Dodonea viscosa*).

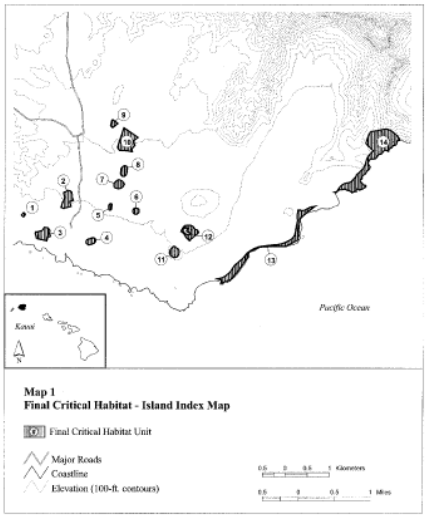
(3) All critical habitat areas contain one or more of the primary constituent elements for the Kauai cave amphipod.

(4)(i) Existing human-constructed features and structures within the boundaries of mapped units that involved trenching, filling, or excavation resulting in below-surface modification or alteration would not contain either of the primary constituent elements and are excluded from critical habitat designation. Such features and structures include but are not limited to: Homes and buildings for which the underlying bedrock has been altered for their construction or through incorporation of or connection to buried structural foundations, septic tanks, city sewage and drainage systems, or water or underground electrical supply corridors; paved roads; and areas previously or currently used as a quarry.

(ii) Areas that have been modified on the surface but without trenching, filling, or excavation resulting in below-surface modification or alteration are included in the critical habitat designation, even if they are adjacent to areas that have undergone below-surface modification.

(5) Critical habitat units are described below. Coordinates in UTM Zone 4 with units in meters using North American Datum of 1983 (NAD83). The following map shows the general locations of the 14 critical habitat units designated on the island of Kauai.

(i) Note: Map 1—Index map follows:



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(6) Unit 1—(<1 ha (1 ac)):

(i) Unit 1 consists of the following 10 boundary points with the following coordinates in UTM Zone 4, with the units in meters, using North American Datum of 1983 (NAD83): Start at 450554, 2420457; 450546, 2420468; 450576, 2420510; 450586, 2420518; 450607, 2420516; 450624, 2420502; 450625, 2420480; 450618, 2420452; 450600, 2420437; 450574, 2420434; return to starting point.

(ii) Note: Unit 1 is depicted on Map 2—Units 1, 2, 3, and 4—below.

(7) Unit 2—(7 ha (16 ac)):

(i) Unit 2 consists of the following 16 boundary points with the following coordinates in UTM Zone 4, with the units in meters, using North American Datum of 1983 (NAD83): Start at 451483, 2420974; 451539, 2420991; 451583, 2421015; 451622, 2421014; 451667, 2420984; 451677, 2420926; 451680, 2420869; 451705, 2420799; 451622, 2420769; 451650, 2420664; 451488, 2420620; 451468, 2420624; 451433, 2420642; 451470, 2420758; 451501, 2420801; 451510, 2420870; return to starting point.

(ii) Note: Unit 2 is depicted on Map 2—Units 1, 2, 3, and 4—below.

(8) Unit 3—(6 ha (16 ac)):

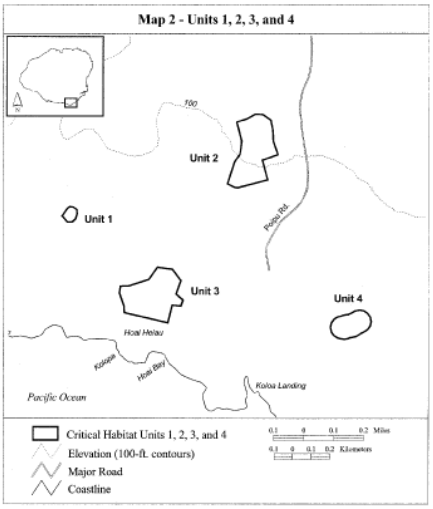
(i) Unit 3 consists of the following 14 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 450881, 2419947; 450879, 2419981; 450855, 2420053; 450859, 2420089; 450903, 2420089; 451012, 2420125; 451058, 2420191; 451138, 2420180; 451184, 2420119; 451159, 2420048; 451194, 2420014; 451183, 2419982; 451136, 2419987; 451114, 2419892; return to starting point.

(ii) Note: Unit 3 is depicted on Map 2—Units 1, 2, 3, and 4—below.

(9) Unit 4—(2 ha (6 ac)):

(i) Unit 4 consists of the following 33 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 452087, 2419809; 452063, 2419804; 452053, 2419805; 452040, 2419807; 452027, 2419811; 452007, 2419824; 451994, 2419844; 451989, 2419867; 451994, 2419890; 452007, 2419910; 452027, 2419923; 452045, 2419927; 452053, 2419932; 452076, 2419936; 452082, 2419936; 452084, 2419936; 452090, 2419939; 452095, 2419942; 452096, 2419943; 452118, 2419954; 452145, 2419960; 452168, 2419955; 452188, 2419942; 452201, 2419922; 452206, 2419899; 452201, 2419876; 452188, 2419856; 452172, 2419844; 452153, 2419835; 452132, 2419822; 452123, 2419817; 452099, 2419812; 452093, 2419812; return to starting point.

(ii) Note: Unit 4 is depicted on Map 2—Units 1, 2, 3, and 4—which follows:



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(10) Unit 5—(1 ha (2 ac)):

(i) Unit 5 consists of the following 35 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 452493, 2420608; 452493, 2420613; 452493, 2420616; 452496, 2420639; 452492, 2420652; 452491, 2420660; 452492, 2420669; 452497, 2420683; 452498, 2420686; 452502, 2420694; 452516, 2420711; 452518, 2420713; 452528, 2420720; 452540, 2420722; 452552, 2420720; 452561, 2420713; 452568, 2420704; 452570, 2420692; 452568, 2420680; 452564, 2420673; 452553, 2420660; 452556, 2420649; 452557, 2420641; 452557, 2420637; 452554, 2420613; 452555, 2420611; 452555, 2420607; 452553, 2420595; 452546, 2420585; 452536, 2420579; 452525, 2420576; 452513, 2420579; 452503, 2420585; 452496, 2420595; 452494, 2420602; return to starting point.

(ii) Unit 5 is depicted on Map 3—Units 5, 6, 7, and 8—below.

(11) Unit 6—(2 ha (4 ac)):

(i) Unit 6 consists of the following 21 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 453052, 2420607; 453065, 2420616; 453078, 2420622; 453101, 2420626; 453126, 2420621; 453139, 2420616; 453154, 2420606; 453164, 2420591; 453167, 2420579; 453169, 2420551; 453165, 2420533; 453156, 2420517; 453141, 2420500; 453127, 2420490; 453109, 2420486; 453078, 2420490; 453053, 2420505; 453042, 2420522; 453034, 2420543; 453032, 2420559; 453036, 2420585; return to starting point.

(ii) Unit 6 is depicted on Map 3—Units 5, 6, 7, and 8—below.

(12) Unit 7—(3 ha (9 ac)):

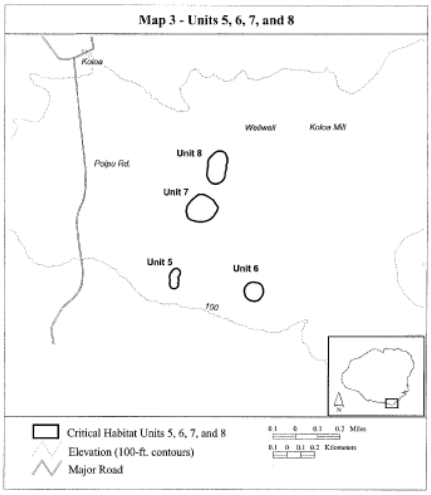
(i) Unit 7 consists of the following 7 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 452623, 2421100; 452812, 2421077; 452831, 2421041; 452816, 2421016; 452786, 2420896; 452590, 2420946; 452608, 2421015; return to starting point.

(ii) Unit 7 is depicted on Map 3—Units 5, 6, 7, and 8—below.

(13) Unit 8—(2 ha (7 ac)):

(i) Unit 8 consists of the following 33 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 452763, 2421383; 452759, 2421402; 452760, 2421421; 452767, 2421462; 452766, 2421477; 452768, 2421497; 452771, 2421510; 452780, 2421523; 452812, 2421556; 452824, 2421564; 452831, 2421567; 452848, 2421571; 452857, 2421571; 452875, 2421567; 452890, 2421557; 452899, 2421542; 452904, 2421531; 452907, 2421514; 452908, 2421497; 452904, 2421480; 452899, 2421471; 452902, 2421454; 452900, 2421439; 452894, 2421422; 452891, 2421412; 452891, 2421402; 452888, 2421385; 452880, 2421368; 452871, 2421355; 452844, 2421338; 452822, 2421335; 452799, 2421339; 452778, 2421357; return to starting point.

(ii) Unit 8 is depicted on Map 3—Units 5, 6, 7, and 8—which follows:



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(14) Unit 9—(1 ha (4 ac)):

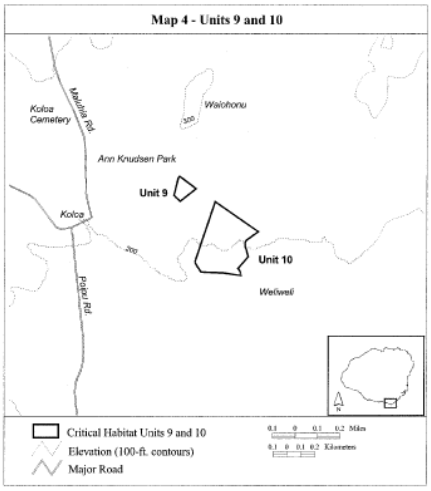
(i) Unit 9 consists of the following 5 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 452568, 2422604; 452577, 2422610; 452696, 2422521; 452580, 2422429; 452537, 2422471; return to starting point.

(ii) Note: Unit 9 is depicted on Map 4—Units 9 and 10—below.

(15) Unit 10—(14 ha (35 ac)):

(i) Unit 10 consists of the following 14 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 452688, 2421988; 452834, 2422427; 453145, 2422210; 453061, 2422147; 453053, 2422133; 453053, 2422102; 453061, 2422078; 453074, 2422029; 453002, 2421944; 453015, 2421922; 453022, 2421892; 452896, 2421910; 452733, 2421917; 452705, 2421959; return to starting point.

(ii) Note: Unit 10 is depicted on Map 4—Units 9 and 10—which follows:



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(16) Unit 11—(4 ha (10 ac)):

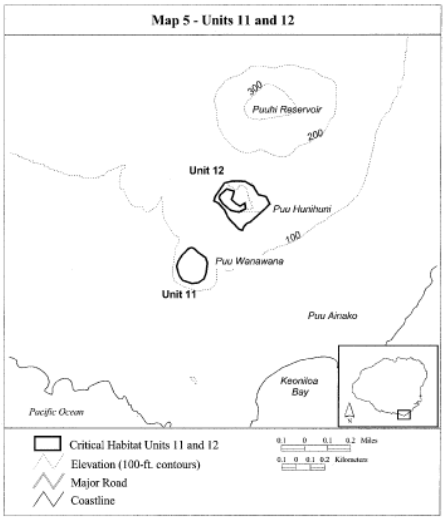
(i) Unit 11 consists of the following 17 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 453958, 2419773; 453976, 2419766; 453999, 2419741; 454054, 2419702; 454068, 2419667; 454060, 2419596; 454042, 2419553; 454005, 2419528; 453962, 2419521; 453894, 2419545; 453872, 2419573; 453862, 2419600; 453852, 2419642; 453862, 2419676; 453887, 2419718; 453912, 2419742; 453936, 2419768; return to starting point.

(ii) Note: Unit 11 is depicted on Map 5—Units 11 and 12—below.

(17) Unit 12 (6 ha (16 ac)):

(i) Unit 12 consists of the following 21 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 454185, 2420229; 454242, 2420243; 454326, 2420241; 454387, 2420207; 454420, 2420147; 454475, 2420133; 454502, 2420080; 454474, 2420055; 454366, 2419954; 454341, 2419944; 454321, 2419921; 454311, 2419895; 454286, 2419903; 454264, 2419927; 454229, 2419962; 454208, 2419993; 454186, 2420038; 454169, 2420058; 454145, 2420086; 454112, 2420103; 454120, 2420133; return to starting point.

(ii) Note: Unit 12 is depicted on Map 5—Units 11 and 12—which follows:



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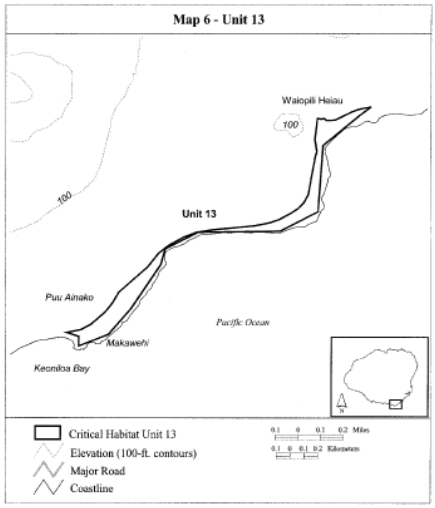
(18) Unit 13—(21 ha (52 ac)):

(i) Unit 13 consists of the following 43 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 457108, 2420666; 457027, 2420606; 456763, 2420391; 456727, 2419912; 456456, 2419772; 455868, 2419764; 455633, 2419645; 455601, 2419531; 455389, 2419219; 455225, 2419029; 455014, 2418947; 455014, 2419015; 454926, 2419043; 455027, 2419064; 455102, 2419103; 455202, 2419192; 455255, 2419258; 455300, 2419334; 455508, 2419515; 455586, 2419614; 455664, 2419674; 455767, 2419730; 455859, 2419764; 455969, 2419780; 456212, 2419805; 456272, 2419811; 456376, 2419831; 456451, 2419859; 456531, 2419900; 456583, 2419935; 456627, 2419981; 456656, 2420036; 456682, 2420173; 456709, 2420316; 456718, 2420343; 456704, 2420433; 456723, 2420583; 456747, 2420580; 456771, 2420584; 456786, 2420569; 456848, 2420572; 456979, 2420634; 457022, 2420649; return to starting point.

(ii) Note: Unit 13 is depicted on Map 6—Unit 13—which follows:



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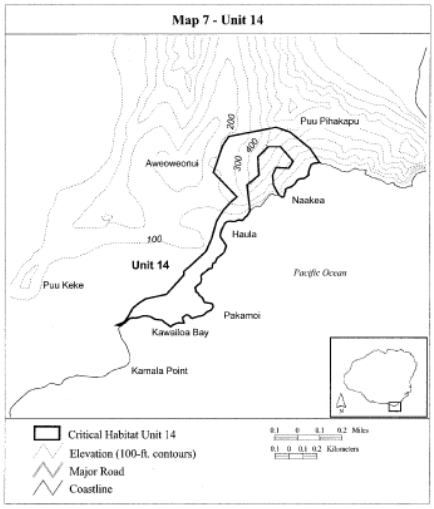
(19) Unit 14—(39 ha (96 ac)):

(i) Unit 14 consists of the following 47 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Coastline. 457575, 2420977; 457548, 2420981; 457598, 2421002; 457624, 2421039; 457624, 2421039; 457624, 2421039; 457664, 2421105; 457715, 2421146; 457755, 2421170; 457901, 2421204; 458025, 2421342; 458025, 2421367; 458078, 2421412; 458078, 2421413; 458078, 2421413; 458184, 2421510; 458226, 2421607; 458226, 2421607; 458226, 2421607; 458259, 2421727; 458308, 2421809; 458371, 2421876; 458405, 2421905; 458237, 2422080; 458301, 2422271; 458346, 2422339; 458686, 2422403; 458785, 2422371; 458932, 2422252; 458997, 2422153; Coastline. 458706, 2421920; 458670, 2421988; 458662, 2422059; 458688, 2422116; 458778, 2422112; 458809, 2422160; 458719, 2422266; 458630, 2422266; 458556, 2422191; 458563, 2422061; 458479, 2421989; 458500, 2421803.

(ii) Note: Unit 14 is depicted on Map 7—Unit 14—which follows:



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Conservancy fairy shrimp (Branchinecta conservatio)

(1) Critical habitat units are depicted for Tehama, Glenn, Colusa, Stanislaus, Mariposa and Ventura Counties, California, on the map below.

(2) The primary constituent elements of critical habitat for Conservancy fairy shrimp are the habitat components that provide:

(i) Vernal pools, swales, and other ephemeral wetlands and depressions of appropriate sizes and depths that typically become inundated during winter rains and hold water for sufficient lengths of time necessary for Conservancy fairy shrimp incubation, reproduction, dispersal, feeding, and sheltering, including but not limited to large, playa vernal pools often on basin rim landforms and alkaline soils, but which are dry during the summer and do not necessarily fill with water every year; and

(ii) The geographic, topographic, and edaphic features that support aggregations or systems of hydrologically interconnected pools, swales, and other ephemeral wetlands and depressions within a matrix of surrounding uplands that together form hydrologically and ecologically functional units called vernal pool complexes. These features contribute to the filling and drying of the vernal pool, and maintain suitable periods of pool inundation, water quality, and soil moisture for vernal pool crustacean hatching, growth and reproduction, and dispersal, but not necessarily every year.

(3) Existing manmade features and structures, such as buildings, roads, railroads, airports, runways, other paved areas, lawns, and other urban landscaped areas do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Critical habitat does not include the following lands although they may fall within the legal descriptions below:

(i) Lands within the following California counties: Butte, Madera, Merced, Sacramento, and Solano;

(ii) Federally-owned lands within the boundaries of the Kern, Sacramento, San Francisco Bay, and San Luis National Wildlife Refuges and National Wildlife Refuge Complexes, and the Coleman National Fish Hatchery;

(iii) State-owned lands within the boundaries of the Allensworth, Boggs Lake, Butte Creek Canyon, Calhoun Cut, Carrizo Plains, Dales Lake, Fagan Marsh, Phoenix Field, San Joaquin River, Stone Corral, and Thomes Creek Ecological Reserves;

(iv) State-owned lands within the boundaries of the Battle Creek, Big Sandy, Grizzly Island, Hill Slough, North Grasslands, and Oroville Wildlife Areas.

(5) Unit 1: Butte and Tehama Counties, California. From USGS 1:24,000 quadrangle maps Acorn Hollow, Campbell Mound, Foster Island, Nord, Richardson Springs, Richardson Springs NW, and Vina, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 592400, 4416700; 592500, 4416600; 592500, 4416000; 592000, 4416000; 592000, 4415800; 592500, 4415800; 593800, 4416300; 594100, 4416300; 594400, 4416300; 594400, 4415800; 594900, 4415800; 594900, 4416300; 595500, 4416300; 595500, 4416400; 595900, 4416500; 596000, 4416500; 596100, 4416400; 596200, 4416500; 596300, 4416600; 596400, 4416700; 596500, 4416700; 596500, 4416800; 596600, 4416800; 597100, 4416400; 597100, 4415600; 596800, 4415200; 597100, 4415000; 597800, 4415500; 598100, 4415200; 597600, 4414600; 597600, 4414400; 597300, 4413800; 597300, 4413300; 598200, 4413900; 598400, 4413900; 598400, 4413600; 597400, 4411900; 597600, 4411900; 598300, 4412700; 598500, 4413300; 598900, 4413300; 598900, 4411800; 599400, 4411700; 599800, 4411700; 599800, 4411000; 599300, 4410700; 599100, 4410800; 599000, 4410800; 598800, 4410600; 598500, 4410400; 598300, 4410100; 598100, 4410000; 598000, 4409900; 597700, 4409800; 597600, 4409600; 597500, 4409500; 597300, 4409500; 597100, 4409400; 596900, 4409200; 596800, 4409200; 596700, 4409100; 596200, 4409100; 596000, 4408900; 595900, 4408800; 595700, 4408800; 595500, 4408200; 594300, 4408200; 594100, 4408300; 594000, 4408400; 593600, 4408500; 593400, 4408200; 593300, 4408200; 593300, 4408500; 592900, 4408500; 592900, 4408600; 593000, 4408600; 593100, 4409200; 593200, 4409200; 593200, 4409300; 592900, 4409300; 592900, 4409500; 593100, 4409600; 593100, 4409500; 593200, 4409500; 593200, 4409800; 593300, 4409900; 593300, 4410400; 593100, 4410400; 592900, 4410200; 592600, 4410200; 592600, 4410000; 592500, 4409900; 592500, 4409700; 591700, 4409400; 591500, 4409400; 591700, 4409100; 591700, 4409000; 591500, 4409000; 591500, 4408600; 590900, 4408600; 590900, 4408900; 590700, 4409000; 590800, 4409400; 591000, 4409500; 591200, 4409500; 591100, 4409800; 590500, 4409800; 590300, 4409600; 590300, 4409500; 590100, 4409500; 590000, 4409400; 590300, 4409400; 590400, 4409000; 590500, 4408600; 590100, 4408600; 590100, 4408800; 589900, 4409000; 589500, 4408900; 589300, 4408900; 589300, 4409200; 589400, 4409200; 589400,

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(6) Unit 2: Colusa and Glen Counties, California. [Reserved]

(7) Unit 3: Solano County, California. [Reserved]

(8) Unit 4: Solano County, California. [Reserved]

(9) Unit 5: Stanislaus County, California. [Reserved]

(10) Unit 6: Mariposa and Merced Counties, California. From USGS 1:24,000 quadrangle maps Haystack Mtn., Illinois Hill, Indian Gulch, Le Grand, Merced, Merced Falls, Owens Reservoir, Plainsburg, Planada, Raynor Creek, Snelling, Winton, and Yosemite Lake, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 745500, 4140300; 746100, 4139500; 746800, 4138500; 747700, 4137700; 748500, 4135800; 748700, 4135100; 749500, 4134000; 750700, 4131700; 751600, 4130500; 752000, 4130200; 752100, 4130200; 752200, 4130200; 752800, 4130100; 753300, 4130400; 753500, 4130400; 753900, 4130200; 754000, 4129300; 753400, 4128400; 753900, 4127700; 754400, 4127700; 754600, 4127400; 755300, 4128400; 755400, 4128400; 755600, 4127700; 756900, 4126400; 757800, 4125800; 758400, 4126300; 758500, 4126300; 758600, 4126000; 757900, 4125100; 757400, 4125100; 757200, 4124700; 756500, 4123700; 753500, 4122400; 750200, 4122400; 750200, 4121400; 748600, 4121400; 748600, 4121900; 747800, 4121900; 747800, 4123300; 748300, 4123300; 748300, 4123500; 748500, 4123500; 748600, 4123500; 748600, 4123900; 747800, 4123900; 747800, 4124600; 747400, 4125100; 747400, 4125500; 746900, 4125500; 746900, 4125800; 747000, 4125900; 746900, 4125900; 746600, 4125800; 746300, 4125700; 746200, 4125600; 746200, 4125500; 745700, 4125500; 745700, 4125100; 744500, 4125100; 744500, 4125300; 744400, 4125300; 744400, 4125200; 743700, 4125200; 743700, 4125800; 744500, 4125800; 744500, 4126200; 743700, 4126200; 743700, 4127000; 742400, 4127000; 742000, 4127200; 742000, 4128600; 742800, 4128600; 742800, 4129100; 742900, 4129100; 743000, 4129100; 743000, 4129200; 743400, 4129300; 743600, 4129500; 743600, 4130700; 743500, 4130700; 743500, 4130900; 743100, 4130900; 743000, 4130800; 743000, 4130600; 742400, 4130600; 742400, 4130800; 742000, 4130800; 742000, 4131100; 741200, 4131100; 741300, 4131000; 741500, 4131000; 741600, 4130900; 741600, 4130700; 741400, 4130400; 741300, 4130200; 740400, 4130200; 740400, 4130300; 740300, 4130300; 740300, 4131100; 740500, 4131100; 740500, 4131200; 740700, 4131200; 740700, 4131300; 740800, 4131400; 741000, 4131400; 741000, 4131500; 741100, 4131500; 741100, 4131600; 741000, 4131900; 741000, 4132100; 740800, 4132200; 740700, 4132200; 740500, 4132100; 740400, 4132100; 740400, 4132200; 740300, 4132200; 740200, 4132200; 740200, 4132300; 739900, 4132600; 740000, 4132600; 740300, 4132800; 740300, 4133500; 738800, 4133500; 738300, 4133600; 738100, 4133600; 737100, 4133400; 737100, 4134200; 736600, 4134200; 733900, 4134200; 733900, 4134800; 733800, 4134900; 733800, 4135000; 733000, 4135000; 733000, 4135800; 732500, 4135800; 730300, 4135700; 730200, 4135600; 730100, 4135600; 729900, 4135700; 729900, 4136500; 729900, 4136700; 730000, 4136700; 730100, 4136600; 730200, 4136600; 730300, 4136600; 730400, 4136700; 730500, 4136800; 730600, 4136900; 730600, 4137000; 730600, 4137200; 730600, 4137300; 730500, 4137400; 730400, 4137500; 730300, 4137500; 729900, 4137700; 729800, 4137700; 729700, 4137600; 729400, 4137600; 729300, 4137800; 729300, 4138400; 729200, 4138500; 729000, 4138400; 728800, 4138700; 728400, 4138800; 728200, 4138800; 727900, 4138600; 727700, 4138500; 727600, 4138400; 727400, 4138300; 727400, 4137800; 727300, 4137800; 727300, 4137600; 727400, 4137600; 727400, 4137500; 727300, 4137500; 727300, 4137400; 727400, 4137400; 727400, 4137200; 726500, 4137200; 726500, 4136500; 726400, 4136400; 725800, 4136400; 725800, 4137200; 725000, 4137200; 724900, 4138800; 725500, 4138800; 725500, 4138700; 725800, 4138700; 725800, 4138800; 725900, 4138800; 725900, 4139500; 726500, 4139500; 726500, 4139600; 725900, 4139600; 725800, 4139600; 725800, 4140200; 725900, 4140200; 725900, 4140900; 725400, 4140900; 725400, 4140800; 725100, 4140800; 725100, 4141000; 724900, 4141000; 724900, 4141200; 724100, 4141200; 724100, 4141600; 723400, 4141600; 723400, 4141100; 723200, 4141100; 723200, 4140600; 723400, 4140500; 723400, 4139500; 724000, 4139500; 724000, 4139400; 723900, 4138900; 723900, 4138700; 723500, 4138200; 723400, 4138200; 723400, 4138300; 723000, 4138300; 723000, 4138700; 723000, 4138900; 723100, 4139100; 723200, 4139400; 723300, 4139500; 722100, 4139500; 722000, 4140500; 721900, 4141100; 721900, 4141900; 721900, 4143400; 720800, 4143400; 720900, 4141800; 721000, 4141500; 721000, 4141200; 721100, 4141100; 721000, 4141000; 717800, 4140900; 717700, 4142500; 714500, 4142400; 714500, 4144900; 715500, 4144900; 715500, 4145000; 715800, 4145000; 715900, 4145000; 716000, 4145000; 716100, 4145100; 716100, 4145200; 716000, 4145200; 715900, 4145300; 715900, 4145400; 716000, 4145500; 716000, 4145600; 716100, 4145700; 717000, 4145700; 717700, 4145300; 717800, 4145300; 717800, 4145200; 717800, 4145100; 717600, 4144900; 717600, 4144800; 717600, 4144700; 717800, 4144500; 717900, 4144600; 718200, 4144600; 718400, 4144500; 718700, 4144500; 718700, 4144800; 718600, 4145000; 718700, 4145100; 718700, 4145600; 718600, 4145600;

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(11) Subunit 7A: Merced County, California. [Reserved]

(12) Subunit 7B: Merced County, California. [Reserved]

(13) Subunit 7C: Merced County, California. [Reserved]

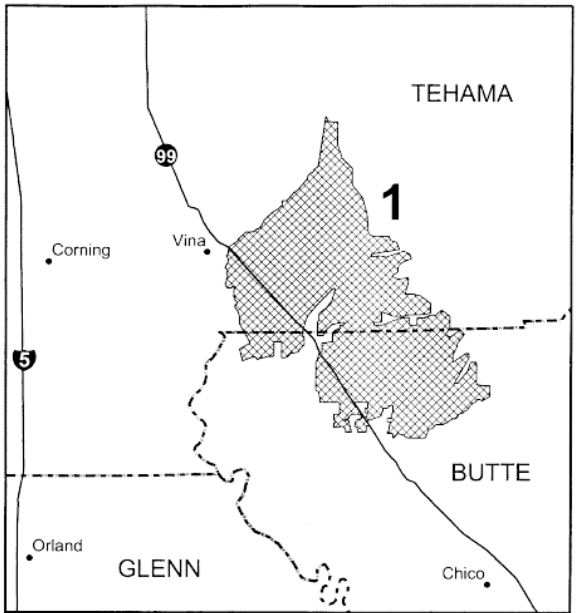
(14) Subunit 7D: Merced County, California. [Reserved]

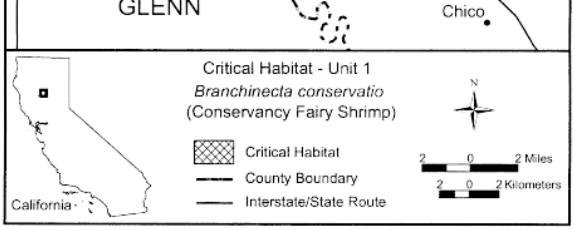
(15) Subunit 7E: Merced County, California. [Reserved]

(16) Subunit 7F: Merced County, California. [Reserved]

(17) Unit 8: Ventura County, California. From USGS 1:24,000 quadrangle maps Alamo Mountain, Lion Canyon, Lockwood Valley, San Guillermo, Topatopa Mountain, California, land bounded by the following UTM 11 NAD 83 coordinates (E, N): 310100, 3830500; 309400, 3831000; 308400, 3830900; 307200, 3830600; 306000, 3831200; 304700, 3831300; 303400, 3832100; 302100, 3832600; 301600, 3833600; 300400, 3833600; 299200, 3834000; 298200, 3834400; 297700, 3835300; 297900, 3837300; 299500, 3837500; 301200, 3838400; 301500, 3839300; 303400, 3841000; 303800, 3842700; 304900, 3843600; 305800, 3843600; 307700, 3843400; 309500, 3843400; 310500, 3844200; 311900, 3844600; 313400, 3845400; 314500, 3844100; 315200, 3843800; 315700, 3842400; 316500, 3841100; 317200, 3838100; 317200, 3837000; 316500, 3833900; 315700, 3833300; 315200, 3834100; 314000, 3834100; 313100, 3832200; 311500, 3830800; returning to 310100, 3830500.

(18) Maps follow of critical habitat units 1, 5 through 7, and 8 (respectively) for Conservancy fairy shrimp.





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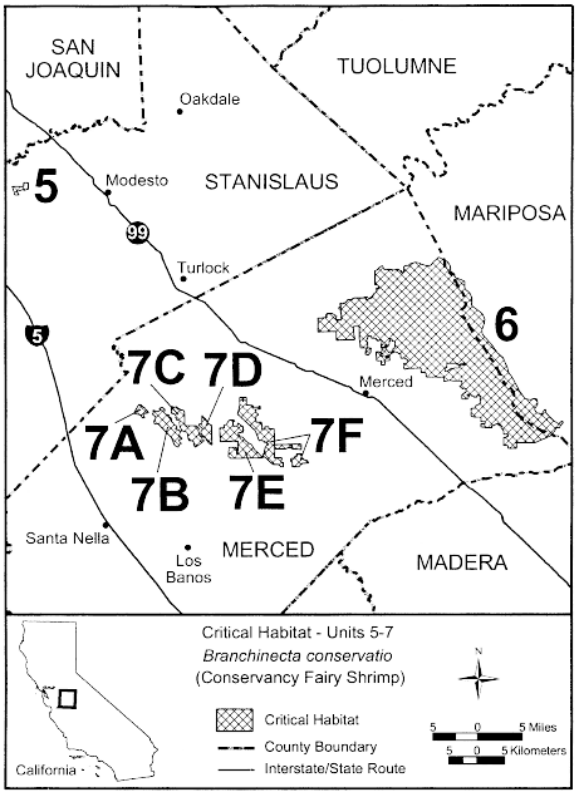

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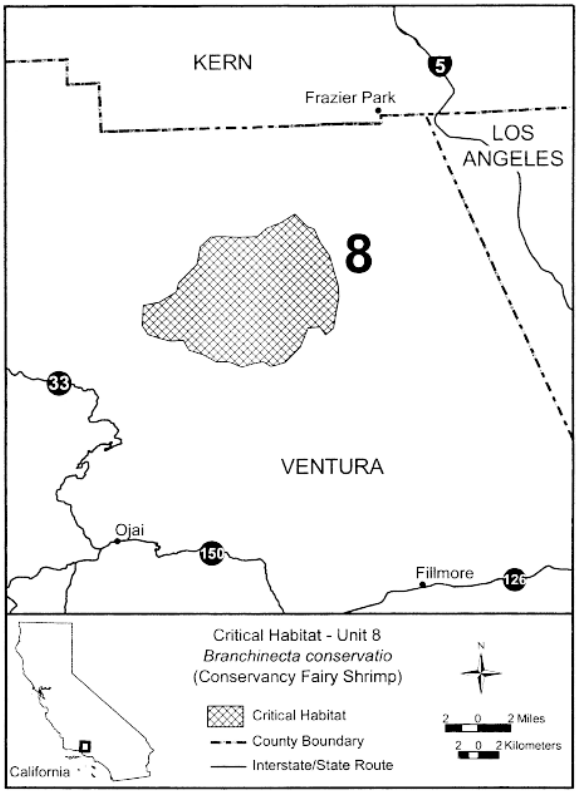

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Longhorn Fairy Shrimp (Branchinecta longiantenna)

(1) Critical habitat units are depicted for Alameda, Contra Costa, and San Luis Obispo Counties, California, on the map below.

(2) The primary constituent elements of critical habitat for longhorn fairy shrimp are the habitat components that provide:

(i) Vernal pools, swales, and other ephemeral wetlands and depressions of appropriate sizes and depths that typically become inundated during winter rains and hold water for sufficient lengths of time necessary for longhorn fairy shrimp incubation, reproduction, dispersal, feeding, and sheltering, including but not limited to, large, playa vernal pools often on basin rim landforms and alkaline soils, but which are dry during the summer and do not necessarily fill with water every year; and

(ii) The geographic, topographic, and edaphic features that support aggregations or systems of hydrologically interconnected pools, swales, and other ephemeral wetlands and depressions within a matrix of surrounding uplands that together form hydrologically and ecologically functional units called vernal pool complexes. These features contribute to the filling and drying of the vernal pool, and maintain suitable periods of pool inundation, water quality, and soil moisture for vernal pool crustacean hatching, growth and reproduction, and dispersal, but not necessarily every year.

(3) Existing manmade features and structures, such as buildings, roads, railroads, airports, runways, other paved areas, lawns, and other urban landscaped areas do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Critical habitat does not include the following lands although they may fall within the legal descriptions below:

(i) Lands within the following California counties: Butte, Madera, Merced, Sacramento, and Solano;

(ii) Federally-owned lands within the boundaries of the Kern, Sacramento, San Francisco Bay, and San Luis National Wildlife Refuges and National Wildlife Refuge Complexes, and the Coleman National Fish Hatchery;

(iii) State-owned lands within the boundaries of the Allensworth, Boggs Lake, Butte Creek Canyon, Calhoun Cut, Carrizo Plains, Dales Lake, Fagan Marsh, Phoenix Field, San Joaquin River, Stone Corral, and Thomes Creek Ecological Reserves;

(iv) State-owned lands within the boundaries of the Battle Creek, Big Sandy, Grizzly Island, Hill Slough, North Grasslands, and Oroville Wildlife Areas.

(5) Subunit 1A: Contra Costa County, California. From USGS 1:24,000 quadrangle map Byron Hot Springs, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 614700, 4184000; 614600, 4184000; 614600, 4184500; 614900, 4185000; 614600, 4185300; 614600, 4185900; 614700, 4185900; 614800, 4185400; 615100, 4185200; 615100, 4185500; 615300, 4185500; 615400, 4185200; 615600, 4184900; 615800, 4184900; 616000, 4184800; 616000, 4184700; 615800, 4184500; 615700, 4184500; 615500, 4184200; 615100, 4184200; 614800, 4184200; returning to 614700, 4184000.

(6) Subunit 1B: Alameda County, California. From USGS 1:24,000 quadrangle map Byron Hot Springs, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 616200, 4179000; 616100, 4179000; 615900, 4179200; 615900, 4179400; 615700, 4179600; 615500, 4180100; 615100, 4180500; 614800, 4180800; 614400, 4180900; 614100, 4181100; 614600, 4181500; 614700, 4181500; 614700, 4181700; 614900, 4181700; 615200, 4181400; 615400, 4181300; 615500, 4181200; 615500, 4181100; 615600, 4181100; 615700, 4181300; 615800, 4181200; 616000, 4180600; 616000, 4180500; 616200, 4180200; 616200, 4179900; 615900, 4179900; 615900, 4179700; 616200, 4179500; returning to 616200, 4179000.

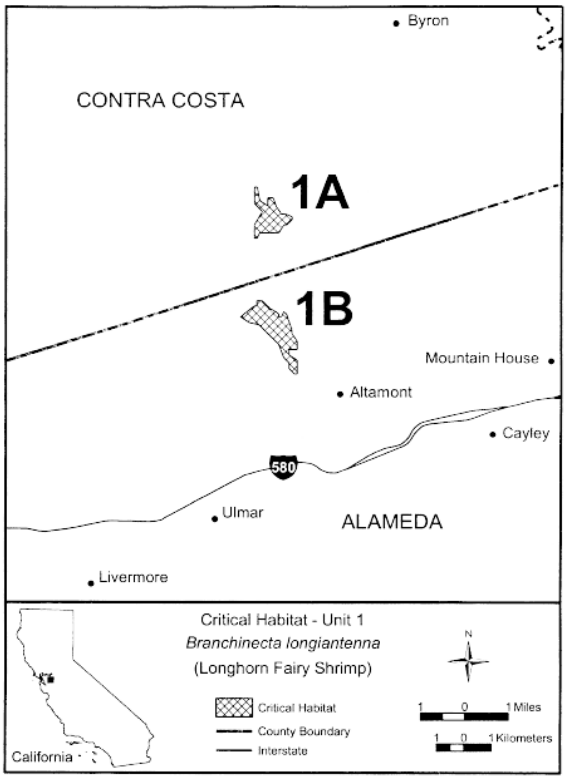
(7) Subunit 2A: Merced, California. [Reserved]

(8) Subunit 2B: Merced, California. [Reserved]

(9) Subunit 2C: Merced, California. [Reserved]

(10) Unit 3: San Luis Obispo County, California. From USGS 1:24,000 quadrangle maps Chimineas Ranch, McKittrick Summit, Painted Rock, and Simmler, California, land bounded by the following UTM 11 NAD 83 coordinates (E, N): 247900, 3894600; 245800, 3895500; 243500, 3896000; 242700, 3896400; 242200, 3897600; 240100, 3898900; 239500, 3899300; 239300, 3899600; 238300, 3900400; 237900, 3900300; 236100, 3901000; 235800, 3901300; 235800, 3902300; 235500, 3903500; 234800, 3904400; 233000, 3904900; 231800, 3905800; 231600, 3907000; 231900, 3908800; 231800, 3909400; 229400, 3910200; 227200, 3911200; 227300, 3913400; 228100, 3913800; 229000, 3913900; 231900, 3913200; 233300, 3913200; 234300, 3912900; 235100, 3912100; 235300, 3911200; 233900, 3910100; 233700, 3909700; 235300, 3909000; 235700, 3908500; 237200, 3907500; 237700, 3906300; 238200, 3905800; 239100, 3905200; 239100, 3904900; 242800, 3902600; 244400, 3901300; 244400, 3901000; 244700, 3900700; 244800, 3899100; 245400, 3898800; 247200, 3896600; 248200, 3895000; returning to 247900, 3894600.

(11) Maps follow of critical habitat units 1 and 3 (respectively) for longhorn fairy shrimp.



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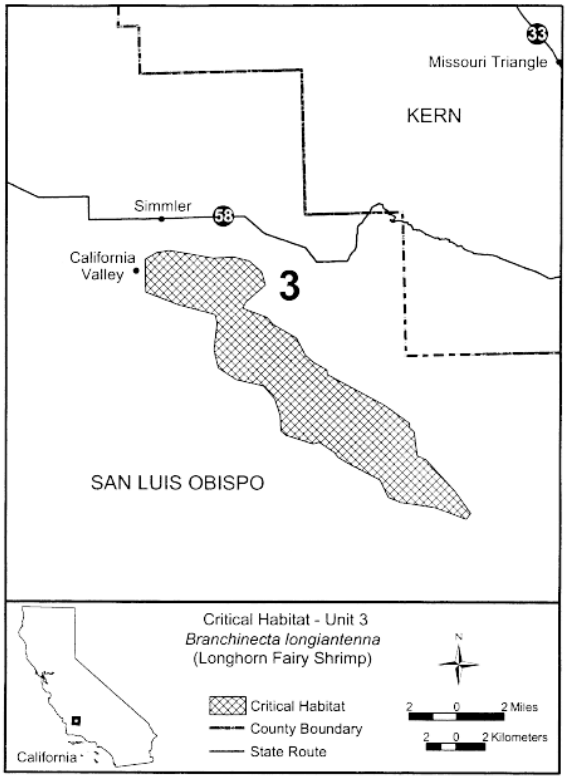

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Riverside Fairy Shrimp (Streptocephalus woottoni)

1. Critical habitat units are depicted for Los Angeles, Orange, Riverside, San Diego, and Ventura counties, California, on the maps below.

2. Critical habitat includes vernal pools, vernal pool complexes, and ephemeral ponds and depressions and their associated watersheds and hydrologic regime indicated on the maps below and in the legal descriptions.

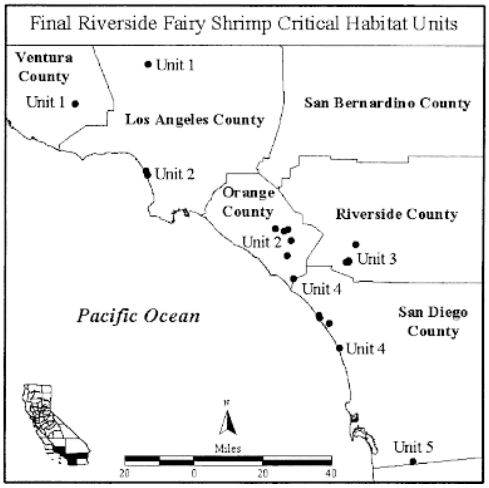
3. Within these areas, the primary constituent elements for the Riverside fairy shrimp are those habitat components that are essential for the primary biological needs of foraging, sheltering, reproduction, and dispersal. The primary constituent elements are found in those areas that support vernal pools or other ephemeral ponds and depressions, and their associated watersheds. The primary constituent elements are: small to large pools with moderate to deep depths that hold water for sufficient lengths of time necessary for incubation and reproduction, but not necessarily every year; entire watershed(s) and other hydrologic features that support pool basins and their related pool complexes; flat or gently sloping

topography; and any soil type with a clay component and/or an impermeable surface or subsurface layer known to support vernal pool habitat. All designated critical habitat areas contain one or more of the primary constituent elements for Riverside fairy shrimp.

4. Existing features and structures, such as buildings, roads, railroads, urban development, and other such developed features not containing primary constituent elements, are not considered critical habitat. Federal actions limited to these areas would not trigger a section 7 consultation, unless they affect the species and/or the primary constituent elements in adjacent critical habitat.

Note:

Map follows:



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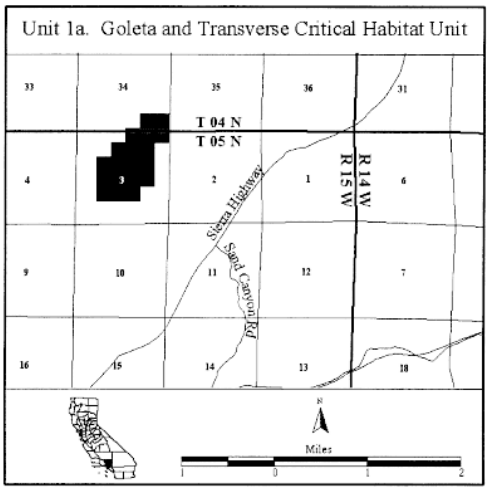
Map Unit 1: Goleta and Transverse Management Area, Ventura and Los Angeles counties, California

Unit 1a: From USGS 1:24,000 quadrangle map Mint Canyon, the lands bounded by the following UTM coordinates (E,N): 368000,3815000; 368500,3815000; 368500,3814500; 368250,3814500; 368250,3813750; 368000,3813750; 368000,3813500; 367250,3813500; 367250,3814250; 367500,3814250; 367500,3814500; 367750,3814500; 367750,3814750; 368000,3814750; 368000,3815000.

Unit 1b: From USGS 1:24,000 quadrangle map Simi Valley West, the lands bounded by the following UTM coordinates (E,N): 329000,3793250: 329500,3793250; 329500,3792750; 329000,3792750; 329000,3793250.

Note:

Maps follow:



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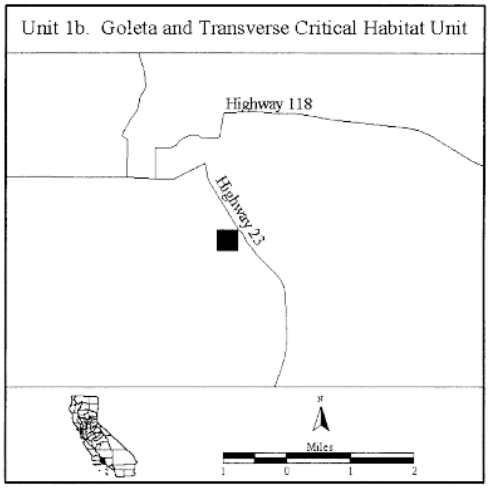

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Map Unit 2: Los Angeles Basin-Orange Management Area, Los Angeles and Orange counties, California

Unit 2A: From USGS 1:24,000 quadrangle map Venice, the lands bounded by the following UTM coordinates (E,N): 366750,3757750; 367250,3757750; 367250,3757250; 367500,3757250; 367500,3756250; 367250,3756250; 367250,3756500; 367000,3756500; 367000,3757250; 366750,3757250; 366750,3757750.

Unit 2B: From USGS 1:24,000 quadrangle map Venice, the lands bounded by the following UTM coordinates (E,N): 367750,3755500; 368000,3755500; 368000,3755250; 367750,3755250; 367750, 3755500.

Unit 2C: From USGS 1:24,000 quadrangle map El Toro, the lands bounded by the following UTM coordinates (E,N): 435750,3726750; 436750,3726750; 436750,3726500; 436500,3726500; 436500,3726250; 435750,3726250; 435750,3726750.

Unit 2D: From USGS 1:24,000 quadrangle map El Toro, the lands bounded by the following UTM coordinates (E,N): 440500,3725750; 441000,3725750; 441000,3725000; 440500,3725000; 440500,3725750.

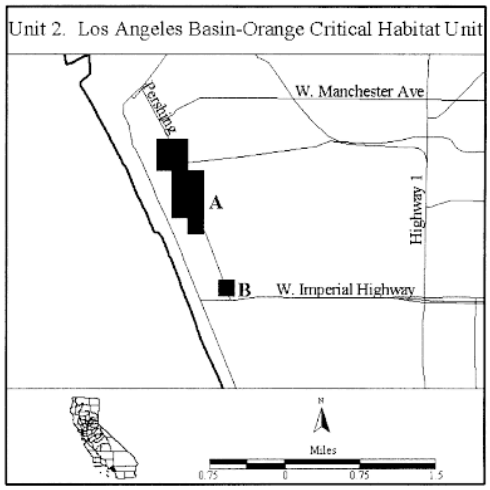
Unit 2E: From USGS 1:24,000 quadrangle map Santiago Peak, the lands bounded by the following UTM coordinates (E,N): 442500,3727000; 443750,3727000; 443750,3726000; 442250,3726000; 442250,3726500; 442500,3726500; 442500,3727000.

Unit 2F: From USGS 1:24,000 quadrangle maps Santiago Peak and Canada Gobernadora, the lands bounded by the following UTM coordinates (E,N): 444500,3721000; 445000,3721000; 445000,3720000; 444000,3720000; 444000,3720500; 444250,3720500; 444250,3720750; 444500,3720750; 444500,3721000.

Unit 2G: From USGS 1:24,000 quadrangle map Canada Gobernadora, the lands bounded by the following UTM coordinates (E,N): 442000,3713000; 442500,3713000; 442500,3712500; 442750,3712500; 442750,3712000; 442000,3712000; 442000,3713000.

Note:

Maps for Units 2A through 2G follow:



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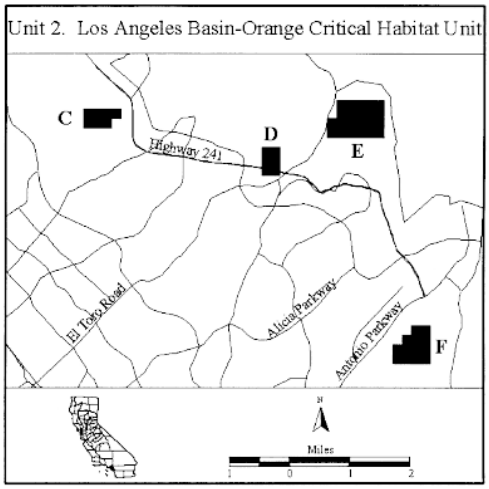

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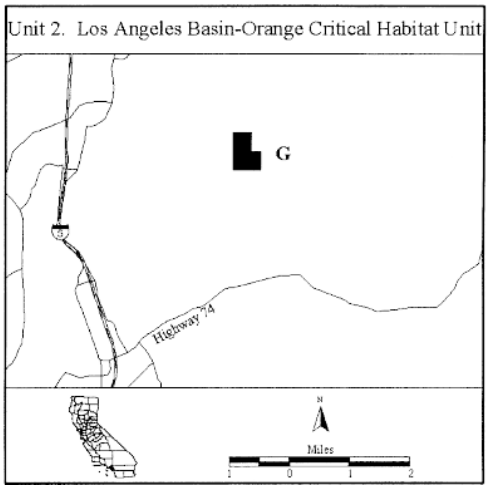

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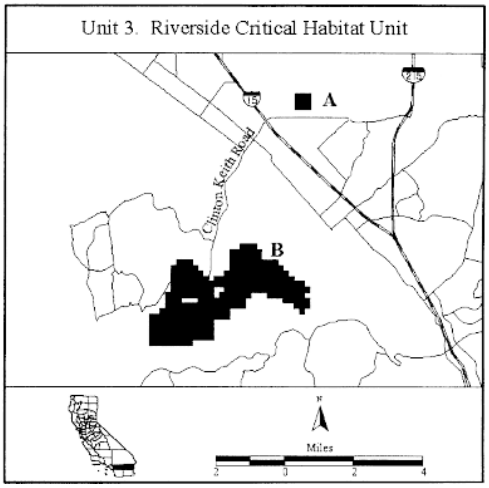
Map Unit 3: Riverside Management Area, Riverside County, California

Unit 3A: From USGS 1:24,000 quadrangle map Murrieta, the lands bounded by the following UTM coordinates (E,N): 478750,3718500; 479500,3718500; 479500,3717750; 478750,3717750; 478750,3718500.

Unit 3B: From USGS 1:24,000 quadrangle maps Wildomar and Murrieta, the lands bounded by the following UTM coordinates (E,N): 476250,3711500; 477000,3711500; 477000,3711250; 477250,3711250; 477250,3710750; 478000,3710750; 478000,3710500; 478250,3710500; 478250,3710250; 478500,3710250; 478500,3710000; 478750,3710000; 478750,3709750; 479250,3709750; 479250,3709500; 479500,3709500; 479500,3709250; 479250,3709250; 479250,3709000; 479500,3709000; 479500,3708500; 479250,3708500; 479250,3708250; 479000,3708250; 479000,3708500; 478750,3708500; 478750,3708750; 478250,3708750; 478250,3709000; 477500,3709000; 477500,3709250; 476750,3709250; 476750,3709000; 476500,3709000; 476500,3708500; 475750,3708500; 475750,3708000; 475000,3708000; 475000,3707000; 474000,3707000; 474000,3706750; 472000,3706750; 472000,3708250; 472500,3708250; 472500,3708500; 472750,3708500; 472750,3709250; 473000,3709250; 473000,3710500; 473250,3710500; 473250,3710750; 474000,3710750; 474000,3710500; 474250,3710500; 474250,3710250; 474500,3710250; 474500,3710000; 474750,3710000; 474750,3709750; 475000,3709750; 475000,3710000; 475500,3710000; 475500,3710250; 475750,3710250; 475750,3711250; 476250,3711250; 476250,3711500. Excluding lands bounded by the following UTM coordinates (E,N): 475000,3709500; 475000,3709000; 475250,3709000; 475250,3709250; 475500,3709250; 475500,3709500; 475000,3709500 and lands bounded by the following UTM coordinates (E,N): 473500,3709000; 473500,3708750; 474250,3708750; 474250,3709000; 473500,3709000.

Note:

Map follows:



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Map Unit 4: San Diego: North Coastal Mesa Management Area, San Diego, California

Unit 4A: From USGS 1:24,000 quadrangle map San Clemente, the lands bounded by the following UTM coordinates (E,N): 446250,3701000; 446500,3701000; 446500,3699500; 445750,3699500; 445750,3700000; 446000,3700000; 446000,3700750; 446250,3700750; 446250,3701000.

Unit 4B: From USGS 1:24,000 quadrangle map Las Pulgas Canyon, the lands bounded by the following UTM coordinates (E,N): 446250,3701000; 446500,3701000; 446500,3699500; 445750,3699500; 445750, 3700000; 446000,3700000; 446000,3700750; 446250,3700750; 446250,3701000, excluding the Pacific Ocean.

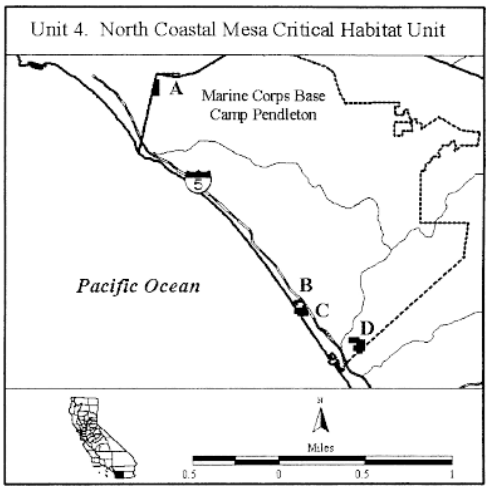
Unit 4C: From USGS 1:24,000 quadrangle map Las Pulgas Canyon, the lands bounded by the following UTM coordinates (E,N): 460000,3680000; 460250,3680000; 460250,3679750; 460500,3679750; 460500,3679000; 459500,3679000; 459500,3679250; 459250,3679250; 459250,3679750; 460000,3679750; 460000,3680000, excluding the Pacific Ocean.

Unit 4D: From USGS 1:24,000 quadrangle maps Oceanside and San Luis Rey, the lands bounded by the following UTM coordinates (E,N): 464250,3677000; 465250,3677000; 465250,3676750; 465750,3676750; 465750,3675750; 465500,3675750; 465500,3675500; 465000,3675500; 465000,3675750; 464750,3675750; 464750,3676250; 465000,3676250; 465000,3676500; 464250,3676500; 464250,3677000.

Unit 4E: From USGS 1:24,000 quadrangle maps Encinitas, the lands bounded by the following UTM coordinates (E,N): 470250,3663500; 470750,3663500; 470750,3662500; 470500,3662500; 470500,3662750; 470250,3662750; 470250,3663500.

Note:

Maps for Units 4A through 4E follow:



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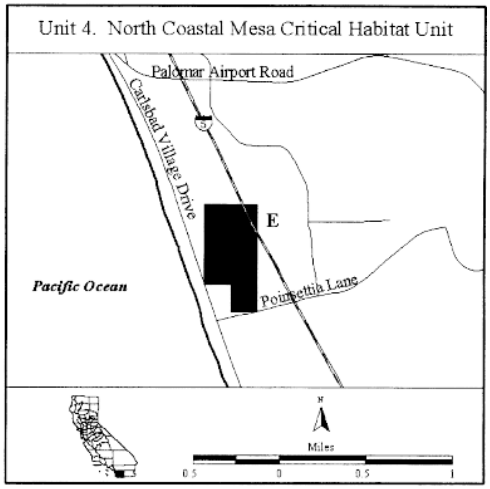

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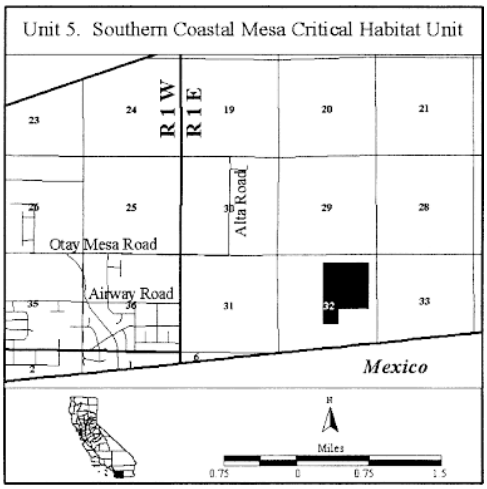
Map Unit 5: San Diego: South Coastal Management Area, San Diego County, California. From USGS 1:24,000 quadrangle maps Otay Mesa, the lands bounded by the following UTM coordinates (E,N): 509250,3603000; 510000,3603000; 510000,3602250; 509500,3602250; 509500,3602000; 509250,3602000; 509250,3603000.

Note:

Map follows:



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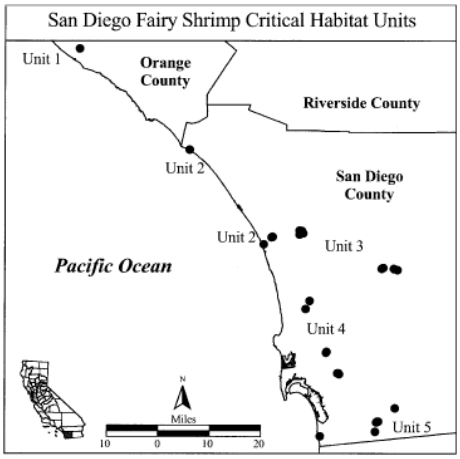
San Diego Fairy Shrimp (Branchinecta sandiegonensis)

1. Critical habitat units are depicted for Orange and San Diego counties, California, on the maps below.



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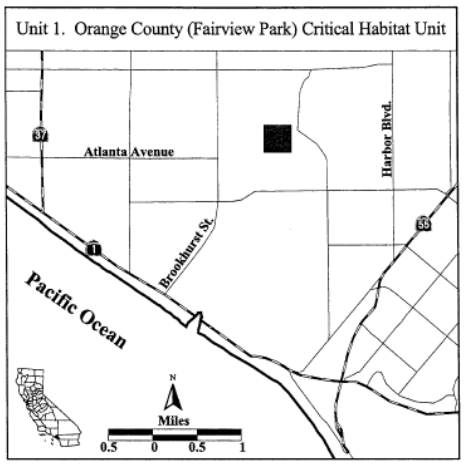
2. Critical habitat includes vernal pool basins and vernal pool complexes indicated on the maps below and their associated watersheds and hydrologic regime.

3. Within these areas, the primary constituent elements include, but are not limited to, those habitat components that are essential for the primary biological needs of foraging, sheltering, reproduction, and dispersal. The primary constituent elements are found in those areas that support vernal pools or other

ephemeral depressional wetlands. Within these seasonal wetlands, specific associations that are essential to the primary biological needs of the San Diego fairy shrimp include, but are not limited to: small to large vernal pools with shallow to moderate depths that hold water for sufficient lengths of time necessary for San Diego fairy shrimp incubation and reproduction, but not necessarily every year; entire watershed(s) and hydrology for vernal pool basins and their associated vernal pool complexes, ephemeral depressional wetlands, flat or gently sloping topography, and any soil type with a clay component and/or an impermeable surface or subsurface layer known to support vernal pool habitat.

4. Existing features and structures, such as buildings, roads, railroads, urban development, and other features not containing primary constituent elements, are not considered critical habitat. In addition, critical habitat does not include non-Federal lands covered by a legally operative incidental take permit for the San Diego fairy shrimp issued under section 10(a)(1)(B) of the Act on or before October 23, 2000.



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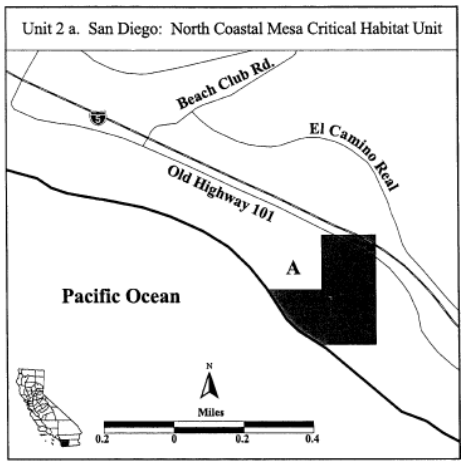
Map Unit 1: Orange County (Fairview Park) Critical Habitat Unit, Orange County, California

From USGS 1:24,000 quadrangle map Newport Beach (1981), California, the lands bounded by the following UTM, North American Datum 1927 (NAD 27) coordinates (E,N): 412500,3725000; 413000,3725000; 413000,3724500; 412500,3724500; 412500,3725000.



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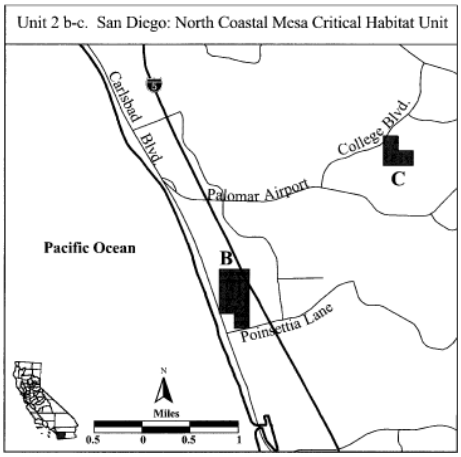

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Map Unit 2: San Diego: North Coastal Mesa Critical Habitat Unit, San Diego, County, California

Unit 2a: From USGS 1:24000 quadrangle maps San Clemente (1968) and San Onofre Bluff (1975), California, the lands bounded by the following UTM NAD 27 coordinates (E,N): 447250,3693250; 447500,3693250; 447500,3692750; 447000,3692750; 447000,3693000; 447250,3693000; 447250,3693250, excluding the Pacific Ocean.

Unit 2b: From USGS 1:24000 quadrangle map San Luis Rey (1975), California, the lands bounded by the following UTM NAD 27 coordinates (E,N): 473000,3665750; 473250,3665750; 473250,3665500; 473500,3665500; 473500,3665250; 473000,3665250; 473000,3665750.

Unit 2c: From USGS 1:24000 quadrangle maps Encinitas (1968), California, the lands bounded by the following UTM NAD 27 coordinates (E,N): 470250,3663500; 470750,3663500; 470750,3662500; 470500,3662500; 470500,3662750; 470250,3662750; 470250,3663500.

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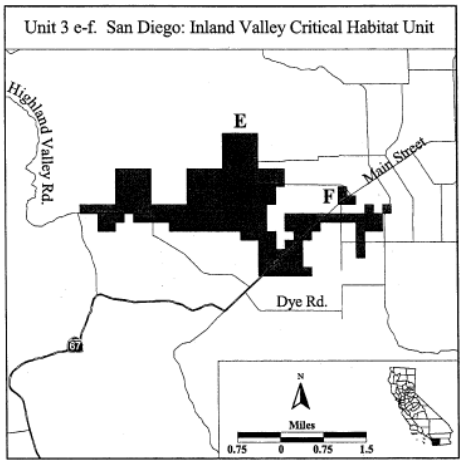

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Map Unit 3: San Diego: Inland Valley Critical Habitat Unit, San Diego, County, California

Unit 3a: From USGS 1:24000 quadrangle map San Marcos (1983), California, the lands bounded by the following UTM NAD 27 coordinates (E,N): 481750,3667500; 482000,3667500; 482000,3667000; 481750,3667000; 481750,3667500.

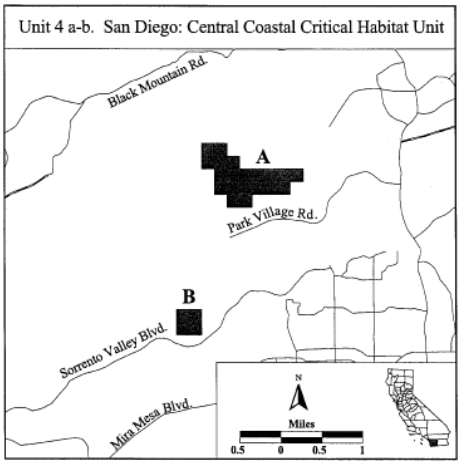
Unit 3b: From USGS 1:24000 quadrangle map San Marcos (1983), California, the lands bounded by the following UTM NAD 27 coordinates (E,N): 482250,3667500; 482750,3667500; 482750,3667000; 482250,3667000; 482250,3667500.

Unit 3c: From USGS 1:24000 quadrangle map San Marcos (1983), California, the lands bounded by the following UTM NAD 27 coordinates (E,N): 481500,3666750; 482000,3666750; 482000,3666250; 482250,3666250; 482250,3665750; 481500,3665750; 481500,3666000; 481250,3666000; 481250,3666250; 481500,3666250; 481500,3666750.

Unit 3d: From USGS 1:24000 quadrangle map San Marcos (1983), California, the lands bounded by the following UTM NAD 27 coordinates (E,N): 482750,3666750; 483000,3666750; 483000,3666250; 482750,3666250; 482750,3666750.

Unit 3e: From USGS 1:24000 quadrangle maps San Pasqual (1971) and Ramona (1988), California, the lands bounded by the following UTM NAD 27 coordinates (E,N): 508000,3657000; 509000,3657000; 509000,3656000; 509750,3656000; 509750,3655500; 509500,3655500; 509500,3655000; 509250,3655000; 509250,3654250; 509500,3654250; 509500,3653750; 509750,3653750; 509750,3654000; 510000,3654000; 510000,3654250; 509750,3654250; 509750,3654750; 512000,3654750; 512000,3655000; 512250,3655000; 512250,3654750; 512500,3655000; 512750,3655000; 512750,3654750; 512500,3654750; 512500,3654250; 512000,3654250; 512000,3653500; 511750,3653500; 511750,3654500; 510750,3654500; 510750,3654250; 510500,3654250; 510500,3654000; 510250,3654000; 510250,3653250; 510500,3653250; 510500,3653000; 509000,3653000; 509000,3654000; 508500,3654000; 508500,3654250; 506500,3654250; 506500,3654500; 505500,3654500; 505500,3654750; 505250,3654750; 505250,3654500; 505000,3654500; 505000,3654250; 504500,3654250; 504500,3654750; 504000,3654750; 504000,3655000; 505000,3655000; 505000,3656000; 506000,3656000; 506000,3655000; 507000,3655000; 507000,3656000; 508000,3656000; 508000,3657000.

Unit 3f: From USGS 1:24000 quadrangle map San Pasqual (1971) and Ramona (1988), California, the lands bounded by the following UTM NAD 27 coordinates (E,N): 511250,3655500; 511500,3655500; 511500,3655250; 511750,3655250; 511750,3655000; 511250,3655000; 511250,3655500.



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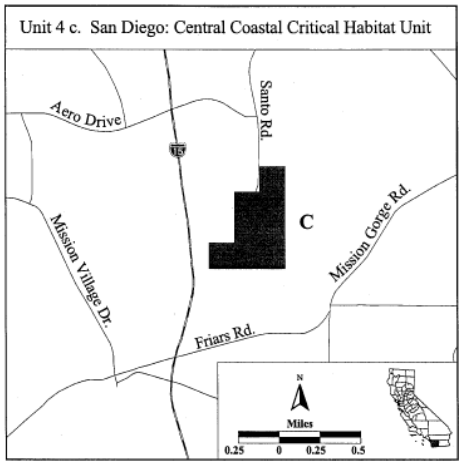

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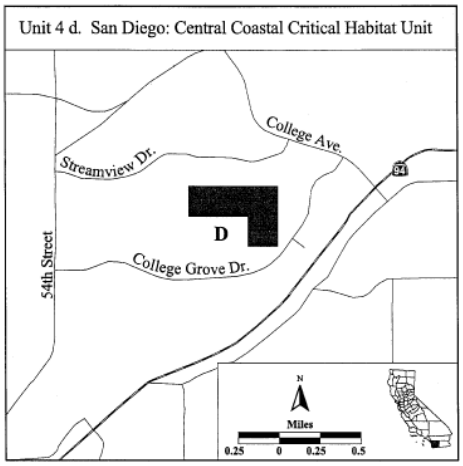

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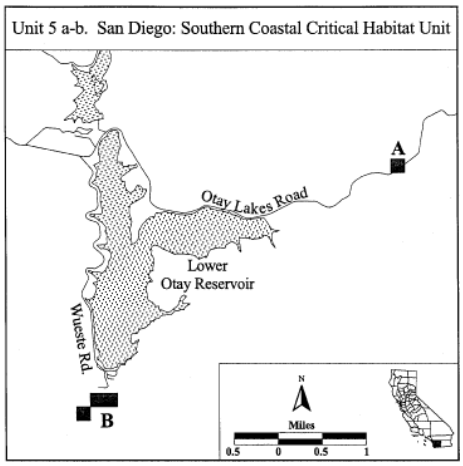
Map Unit 4: San Diego: Central Coastal Mesa Critical Habitat Unit, San Diego, County, California

Unit 4a: From USGS 1:24000 quadrangle map Del Mar (1975), California, the lands bounded by the following UTM NAD 27 coordinates (E,N): 484000,3646000; 484500,3646000; 484500,3645750; 484750,3645750; 484750,3645500; 486000,3645500; 486000,3645250; 485750,3645250; 485750,3645000; 485000,3645000; 485000,3644750; 484500,3644750; 484500,3645000; 484250,3645000; 484250,3645500; 484000,3645500; 484000,3646000.

Unit 4b: From USGS 1:24000 quadrangle map Del Mar (1975), California, the lands bounded by the following UTM NAD 27 coordinates (E,N): 483500,3642750; 484000,3642750; 484000,3642250; 483500,3642250; 483500,3642750.

Unit 4c: From USGS 1:24000 quadrangle map La Mesa (1975), California, the lands bounded by the following UTM NAD 27 coordinates (E,N): 490250,3629500; 490500,3629500; 490500,3628500; 489750,3628500; 489750,3628750; 490000,3628750; 490000,3629250; 490250,3629250; 490250,3629500.

Unit 4d: From USGS 1:24000 quadrangle map National City (1975), California, the lands bounded by the following UTM NAD 27 coordinates (E,N): 493750,3622500; 494500,3622500; 494500,3622000; 494250,3622000; 494250,3622250; 493750,3622250; 493750,3622500.



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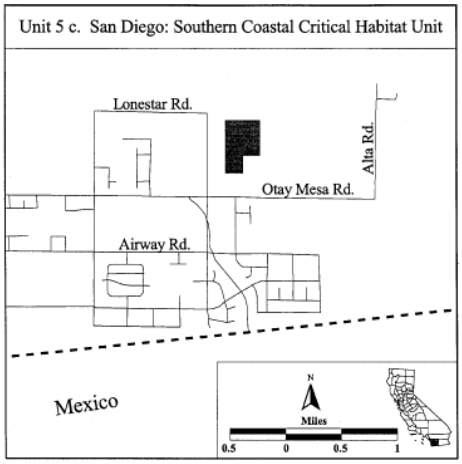

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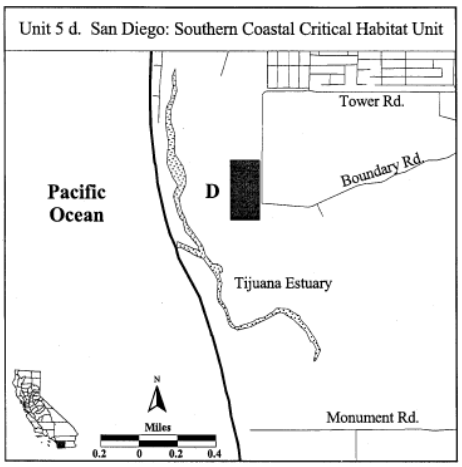

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Map Unit 5: San Diego: Southern Coastal Mesa Critical Habitat Unit, San Diego, County, California

Unit 5a: From USGS 1:24000 quadrangle map Dulzura (1988), California, the lands bounded by the following UTM NAD 27 coordinates (E,N): 511750,3611500; 512000,3611500; 512000,3611250; 511750,3611250; 511750,3611500.

Unit 5b: From USGS 1:24000 quadrangle map Otay Mesa (1988), California, the lands bounded by the following UTM NAD 27 coordinates (E,N): 506250,3607250; 506750,3607250; 506750,3607000; 506250,3607000; 506250,3606750; 506000,3606750; 506000,3607000; 506250,3607000; 506250,3607250.

Unit 5c: From USGS 1:24000 quadrangle map Otay Mesa (1988), California, the lands bounded by the following UTM NAD 27 coordinates (E,N): 505500,3604250; 506000,3604250; 506000,3603750; 505750,3603750; 505750,3603500; 505500,3603500; 505500,3604250.

Unit 5d: From USGS 1:24000 quadrangle map Imperial Beach (1975), California, the lands bounded by the following UTM NAD 27 coordinates (E,N): 488250,3602750; 488500,3602750; 488500,3602250; 488250,3602250; 488250,3602750.

Vernal Pool Fairy Shrimp (Branchinecta lynchi)

(1) Critical habitat units are depicted for Jackson County, Oregon; Shasta, Tehama, Glenn, Colusa, Placer, Napa, Contra Costa, Alameda, Amador, San Joaquin, Stanislaus, Mariposa, Fresno, Tulare, Kings, San Benito, Monterey, San Luis Obispo, Santa Barbara, and Ventura Counties, California on the map below:

(2) The primary constituent elements of critical habitat for vernal pool fairy shrimp are the habitat components that provide:

(i) Vernal pools, swales, and other ephemeral wetlands and depressions of appropriate sizes and depths that typically become inundated during winter rains and hold water for sufficient lengths of time necessary for vernal pool fairy shrimp incubation, reproduction, dispersal, feeding, and sheltering, including but not limited to, Northern Hardpan, Northern Claypan, Northern Volcanic Mud Flow, and Northern Basalt Flow vernal pools formed on a variety of geologic formations and soil types, but which are dry during the summer and do not necessarily fill with water every year; and

(ii) The geographic, topographic, and edaphic features that support aggregations or systems of hydrologically interconnected pools, swales, and other ephemeral wetlands and depressions within a matrix of surrounding uplands that together form hydrologically and ecologically functional units called vernal pool complexes. These features contribute to the filling and drying of the vernal pool, and maintain suitable periods of pool inundation, water quality, and soil moisture for vernal pool crustacean hatching, growth and reproduction, and dispersal, but not necessarily every year.

(3) Existing manmade features and structures, such as buildings, roads, railroads, airports, runways, other paved areas, lawns, and other urban landscaped areas do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Critical habitat does not include the following lands although they may fall within the legal descriptions below:

(i) Lands within the following California counties: Butte, Madera, Merced, Sacramento, and Solano;

(ii) Federally-owned lands within the boundaries of the Kern, Sacramento, San Francisco Bay, and San Luis National Wildlife Refuges and National Wildlife Refuge Complexes, and the Coleman National Fish Hatchery;

(iii) State-owned lands within the boundaries of the Allensworth, Boggs Lake, Butte Creek Canyon, Calhoun Cut, Carrizo Plains, Dales Lake, Fagan Marsh, Phoenix Field, San Joaquin River, Stone Corral, and Thomes Creek Ecological Reserves;

(iv) State-owned lands within the boundaries of the Battle Creek, Big Sandy, Grizzly Island, Hill Slough, North Grasslands, and Oroville Wildlife Areas.

(5) Subunit 1A: Jackson County, Oregon. From USGS 1:24,000 quadrangle map Shady Cove, Oregon, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 513900, 4709700; 513600, 4709700; 513600, 4709800; 513500, 4709800; 513500, 4710000; 513700, 4710000; 513700, 4710300; 513200, 4710300; 513200, 4710600; 513100, 4710600; 513100, 4710800; 514300, 4710800; 514300, 4710300; 514100, 4710300; 514100, 4709900; 513900, 4709900; returning to 513900, 4709700.

(6) Subunit 1B: Jackson County, Oregon. From USGS 1:24,000 quadrangle map Shady Cove, Oregon, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 513900, 4707000; 513600, 4707000; 513600, 4707300; 513700, 4707300; 513700, 4707400; 513800, 4707400; 513800, 4707500; 513400, 4707500; 513400, 4708000; 514700, 4708000; 514700, 4707700; 514600, 4707700; 514600, 4707600; 514200, 4707600; 514200, 4707500; 514100, 4707500; 514100, 4707300; 514000, 4707300; 514000, 4707200; 513900, 4707200; returning to 513900, 4707000.

(7) Subunit 1C: Jackson County, Oregon. From USGS 1:24,000 quadrangle map Shady Cove, Oregon, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 512000, 4706600; 511800, 4706600; 511800, 4706700; 511300, 4706700; 511300, 4706800; 511200, 4706800; 511200, 4706900; 511100, 4706900; 511100, 4707000; 511000, 4707000; 511000, 4707200; 511100, 4707200; 511100, 4707300; 511200, 4707300; 511200, 4707400; 511100, 4707400; 511100, 4707500; 511200, 4707500; 511200, 4707600; 511400, 4707600; 511400, 4707700; 511600, 4707700; 511600, 4707800; 511800, 4707800; 511800, 4707300; 511900, 4707300; 511900, 4706800; 512000, 4706800; returning to 512000, 4706600.

(8) Subunit 1D: Jackson County, Oregon. From USGS 1:24,000 quadrangle maps Eagle Point and Shady Cove, Oregon, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 515900, 4706700; 515900, 4707000; 516200, 4707000; 516200, 4706900; 516300, 4706900; 516300, 4706700; 516400, 4706700; 516400, 4706800; 516500, 4706800; 516500, 4707000; 516700, 4707000; 516700, 4706900; 516900, 4706900; 516900, 4707000; 517000, 4707000; 517000, 4707100; 517100, 4707100; 517100, 4706900; 517400, 4706900; 517400, 4706700; 517300, 4706700; 517300, 4706500; 517200, 4706500; 517200, 4706400; 517100, 4706400; 517100, 4706300; 516700, 4706300; 516700, 4705600; 516500, 4705600; 516500, 4705500; 516600, 4705500; 516600, 4705400; 516700, 4705400; 516700, 4704800; 516600, 4704800; 516600, 4704600; 516300, 4704600; 516300, 4704500; 516400, 4704500; 516400, 4704400; 516500, 4704400; 516500, 4704300; 515800, 4704300; 515800, 4704600; 516000, 4704600; 516000, 4704700; 515500, 4704700; 515500, 4704800; 515400, 4704800; 515400, 4705100; 515500, 4705100; 515500, 4705200; 515700, 4705200; 515700, 4705300; 515800, 4705300; 515800, 4705900; 515700, 4705900; 515700, 4706200; 515600, 4706200; 515600, 4706400; 515500, 4706400; 515500, 4706500; 515100, 4706500; 515100, 4706700; 515000, 4706700; 515000, 4706900; 514700, 4706900; 514700, 4707000; 514600, 4707000; 514600, 4707200; 514700, 4707200; 514700, 4707300; 515000, 4707300; 515000, 4707200; 515100, 4707200; 515100, 4707100; 515200, 4707100; 515200, 4707000; 515300, 4707000; 515300, 4706800; 515400, 4706800; 515400, 4706700; 515500, 4706700; 515500, 4706600; 515600, 4706600; 515600, 4706700; returning to 515900, 4706700; excluding land bound by 515900, 4706700; 515900, 4706500; 516000, 4706500; 516000, 4706400; 516100, 4706400; 516100, 4706600; 516000, 4706600; 516000, 4706700; returning to 515900, 4706700.

(9) Subunit 1E: Jackson County, Oregon. From USGS 1:24,000 quadrangle maps Boswell Mountain and Shady Cove, Oregon, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 510500, 4706000; 510400, 4706000; 510400, 4706100; 510300, 4706100; 510300, 4706300; 510100, 4706300; 510100, 4706400; 510000, 4706400; 510000, 4706500; 509800, 4706500; 509800, 4706700; 510000, 4706700; 510000, 4706900; 510100, 4706900; 510100, 4707000; 510200, 4707000; 510200, 4706900; 510500, 4706900; 510500, 4707000; 510600, 4707000; 510600, 4707100; 510800, 4707100; 510800,

4706900; 511000, 4706900; 511000, 4706500; 510700, 4706500; 510700, 4706300; 510500, 4706300; returning to 510500, 4706000.

(10) Subunit 1F: Jackson County, Oregon. From USGS 1:24,000 quadrangle maps Eagle Point and Shady Cove, Oregon, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 511400, 4704800; 511200, 4704800; 511200, 4705000; 511000, 4705000; 511000, 4705200; 510900, 4705200; 510900, 4705300; 510800, 4705300; 510800, 4705900; 511000, 4705900; 511000, 4706000; 511300, 4706000; 511300, 4705900; 511500, 4705900; 511500, 4705100; 511400, 4705100; returning to 511400, 4704800; excluding land bound by 511300, 4705300; 511300, 4705500; 511200, 4705500; 511200, 4705300; returning to 511300, 4705300.

(11) Subunit 1G: Jackson County, Oregon. From USGS 1:24,000 quadrangle map Eagle Point, Oregon, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 517700, 4704000; 517200, 4704000; 517200, 4704100; 517100, 4704100; 517100, 4704300; 517000, 4704300; 517000, 4704700; 516900, 4704700; 516900, 4704900; 517000, 4704900; 517000, 4705000; 517100, 4705000; 517100, 4705100; 517600, 4705100; 517600, 4705000; 517800, 4705000; 517800, 4704900; 517900, 4704900; 517900, 4704800; 519100, 4704800; 519100, 4704700; 519300, 4704700; 519300, 4704600; 519400, 4704600; 519400, 4704300; 519100, 4704300; 519100, 4704200; 518600, 4704200; 518600, 4704100; 517900, 4704100; 517900, 4704200; 517700, 4704200; returning to 517700, 4704000.

(12) Subunit 2A: Jackson County, Oregon. From USGS 1:24,000 quadrangle map Eagle Point, Oregon, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 514300, 4698400; 513400, 4698400; 513400, 4698500; 513300, 4698500; 513300, 4698600; 513400, 4698600; 513400, 4698700; 513500, 4698700; 513500, 4698800; 513700, 4698800; 513700, 4699000; 513800, 4699000; 513800, 4699100; 513900, 4699100; 513900, 4699200; 514200, 4699200; 514200, 4698800; 514300, 4698800; 514300, 4698900; 514400, 4698900; 514400, 4699000; 514900, 4699000; 514900, 4698900; 515100, 4698900; 515100, 4699100; 515200, 4699100; 515200, 4699000; 515500, 4699000; 515500, 4698800; 515600, 4698800; 515600, 4699000; 515700, 4699000; 515700, 4698900; 515800, 4698900; 515800, 4698500; 515500, 4698500; 515500, 4698700; 515400, 4698700; 515400, 4698600; 515300, 4698600; 515300, 4698500; 515100, 4698500; 515100, 4698600; 514900, 4698600; 514900, 4698500; 514400, 4698500; 514400, 4698600; 514300, 4698600; returning to 514300, 4698400.

(13) Subunit 2B: Jackson County, Oregon. From USGS 1:24,000 quadrangle maps Brownsboro and Eagle Point, Oregon, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 520800, 4694400; 520700, 4694400; 520700, 4694500; 520500, 4694500; 520500, 4694600; 520400, 4694600; 520400, 4694700; 520300, 4694700; 520300, 4694800; 519900, 4694800; 519900, 4694900; 519500, 4694900; 519500, 4695200; 519400, 4695200; 519400, 4695600; 519300, 4695600; 519300, 4695800; 519200, 4695800; 519200, 4695900; 519100, 4695900; 519100, 4696000; 519000, 4696000; 519000, 4696200; 519300, 4696200; 519300, 4696300; 519100, 4696300; 519100, 4696400; 518900, 4696400; 518900, 4696500; 518800, 4696500; 518800, 4696400; 518600, 4696400; 518600, 4696700; 518500, 4696700; 518500, 4696800; 518400, 4696800; 518400, 4696900; 518300, 4696900; 518300, 4697000; 518200, 4697000; 518200, 4697100; 518100, 4697100; 518100, 4697200; 517600, 4697200; 517600, 4697300; 517300, 4697300; 517300, 4697400; 517100, 4697400; 517100, 4697600; 517000, 4697600; 517000, 4697800; 516900, 4697800; 516900, 4698400; 517300, 4698400; 517300, 4698300; 517500, 4698300; 517500, 4698200; 517600, 4698200; 517600, 4698300; 517900, 4698300; 517900, 4697800; 518500, 4697800; 518500, 4697700; 518600, 4697700; 518600, 4697600; 518800, 4697600; 518800, 4697700; 519100, 4697700; 519100, 4697600; 519300, 4697600; 519300, 4697500; 519400, 4697500; 519400, 4697400; 519500, 4697400; 519500, 4697300; 519700, 4697300; 519700, 4697200; 519800, 4697200; 519800, 4697100; 520000, 4697100; 520000, 4696800; 519900, 4696800; 519900, 4696700; 520400, 4696700; 520400, 4696600; 520500, 4696600; 520500, 4696300; 520400, 4696300; 520400, 4696100; 520500, 4696100; 520500, 4696200; 520600, 4696200; 520600, 4696100; 520700, 4696100; 520700, 4695900; 520600, 4695900; 520600, 4695800; 520500, 4695800; 520500, 4695500; 520700, 4695500; 520700, 4695400; 520800, 4695400; returning to 520800, 4694400.

(14) Subunit 2C: Jackson County, Oregon. From USGS 1:24,000 quadrangle map Eagle Point, Oregon, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 516100, 4697400; 515000, 4697400; 515000, 4697800; 515200, 4697800; 515200, 4697700; 515300, 4697700; 515300, 4697800; 516100, 4697800; returning to 516100, 4697400.

(15) Subunit 2D: Jackson County, Oregon. From USGS 1:24,000 quadrangle map Eagle Point, Oregon, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 516200, 4696200; 515900, 4696200; 515900, 4696900; 516100, 4696900; 516100, 4697000; 516500, 4697000; 516500, 4697100; 516800, 4697100; 516800, 4697200; 517000, 4697200; 517000, 4697100; 517200, 4697100; 517200, 4697000; 517300, 4697000; 517300, 4696900; 517400, 4696900; 517400, 4696600; 517200, 4696600; 517200, 4696700; 516800, 4696700; 516800, 4696600; 516300, 4696600; 516300, 4696500; 516200, 4696500; returning to 516200, 4696200.

(16) Subunit 2E: Jackson County, Oregon. From USGS 1:24,000 quadrangle map Eagle Point, Oregon, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 515200, 4695800; 515000, 4695800; 515000, 4695900; 514500, 4695900; 514500, 4695800; 514300, 4695800; 514300, 4695900; 514200, 4695900; 514200, 4696000; 514100, 4696000; 514100, 4695900; 514000, 4695900; 514000, 4695800; 513900, 4695800; 513900, 4695900; 513800, 4695900; 513800, 4696600; 513500, 4696600; 513500, 4696800; 515600, 4696800; 515600, 4696600; 515500, 4696600; 515500, 4696400; 515100, 4696400; 515100, 4696300; 515200, 4696300; 515200, 4695800; excluding land bound by 514700, 4696300; 514700, 4696500; 514500, 4696500; 514500, 4696400; 514300, 4696400; 514300, 4696500; 514200, 4696500; 514200, 4696400; 514100, 4696400; 514100, 4696300; returning to 514700, 4696300.

(17) Subunit 3A: Jackson County, Oregon. From USGS 1:24,000 quadrangle map Eagle Point, Oregon, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 511600, 4698900; 511600, 4699000; 511400, 4699000; 511400, 4699100; 511100, 4699100; 511100, 4699200; 510700, 4699200; 510700, 4699300; 510600, 4699300; 510600, 4699500; 510900, 4699500; 510900, 4699600; 511200, 4699600; 511200, 4699700; 511300, 4699700; 511300, 4699900; 511400, 4699900; 511400, 4700000; 511500, 4700000; 511500, 4699900; 511600, 4699900; 511600, 4699800; 511700, 4699800; 511700, 4699900; 511900, 4699900; 511900, 4698900; returning to 511600, 4698900.

(18) Subunit 3B: Jackson County, Oregon. From USGS 1:24,000 quadrangle maps Eagle Point and Sams Valley, Oregon, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 511600, 4698900; 511600, 4698600; 511300, 4698600; 511300, 4698700; 511200, 4698700; 511200, 4698600; 511000, 4698600; 511000, 4698500; 510700, 4698500; 510700, 4698600; 510500, 4698600; 510500, 4698500; 509600, 4698500; 509600, 4698100; 509400, 4698100; 509400, 4698000; 509200, 4698000; 509200, 4697800; 509300, 4697800; 509300, 4697600; 509400, 4697600; 509400, 4697200; 509500, 4697200; 509500, 4697000; 510100, 4697000; 510100, 4697100; 511700, 4697100; 511700, 4697000; 511900, 4697000; 511900, 4696400; 510800, 4696400; 510800, 4696300; 510600, 4696300; 510600, 4696400; 510300, 4696400; 510300, 4696500; 509700, 4696500; 509700, 4696600; 509600, 4696600; 509600, 4696500; 508900, 4696500; 508900, 4696600; 508600, 4696600; 508600, 4696700; 508400,

4696700; 508400, 4696800; 508300, 4696800; 508300, 4696900; 508200, 4696900; 508200, 4697000; 508100, 4697000; 508100, 4697100; 508000, 4697100; 508000, 4697300; 508100, 4697300; 508100, 4697600; 508400, 4697600; 508400, 4697700; 508600, 4697700; 508600, 4697800; 508500, 4697800; 508500, 4698000; 508400, 4698000; 508400, 4698400; 508500, 4698400; 508500, 4698500; 508800, 4698500; 508800, 4698600; 508900, 4698600; 508900, 4698300; 509000, 4698300; 509000, 4698400; 509100, 4698400; 509100, 4698600; 509200, 4698600; 509200, 4698700; 509500, 4698700; 509500, 4698900; 509800, 4698900; 509800, 4699000; 510100, 4699000; 510100, 4699100; 511000, 4699100; 511000, 4699000; 511300, 4699000; 511300, 4698900; 511600, 4698900; excluding land bound by 508600, 4697100; 508600, 4697300, 508500, 4697300; 508500, 4697100; returning to 508600, 4697100; and excluding land bound by 509100, 469700; 509100, 4697800; 508800, 4697800; 508800, 4697700; returning to 509100, 469700.

(19) Subunit 3C: Jackson County, Oregon. From USGS 1:24,000 quadrangle map Sams Valley, Oregon, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 508300, 4695000; 507800, 4695000; 507800, 4695200; 507400, 4695200; 507400, 4695400; 506900, 4695400; 506900, 4695800; 506800, 4695800; 506800, 4695900; 506400, 4695900; 506400, 4695800; 505600, 4695800; 505600, 4696000; 505800, 4696000; 505800, 4696700; 506200, 4696700; 506200, 4696800; 506100, 4696800; 506100, 4697300; 506200, 4697300; 506200, 4697600; 506800, 4697600; 506800, 4697500; 506900, 4697500; 506900, 4697300; 506800, 4697300; 506800, 4697200; 506700, 4697200; 506700, 4696700; 507000, 4696700; 507000, 4697000; 506900, 4697000; 506900, 4697200; 507000, 4697200; 507000, 4697400; 507100, 4697400; 507100, 4697500; 507200, 4697500; 507200, 4697400; 507300, 4697400; 507300, 4697300; 507400, 4697300; 507400, 4697100; 507500, 4697100; 507500, 4697000; 507600, 4697000; 507600, 4696900; 507700, 4696900; 507700, 4696700; 507900, 4696700; 507900, 4696000; 508300, 4696000; returning to 508300, 4695000.

(20) Subunit 4A: Jackson County, Oregon. From USGS 1:24,000 quadrangle map Sams Valley, Oregon, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 508600, 4701300; 508400, 4701300; 508400, 4701500; 508300, 4701500; 508300, 4701900; 508200, 4701900; 508200, 4702000; 508100, 4702000; 508100, 4702100; 508000, 4702100; 508000, 4702200; 507900, 4702200; 507900, 4702300; 507800, 4702300; 507800, 4702400; 507700, 4702400; 507700, 4702500; 507600, 4702500; 507600, 4702400; 507500, 4702400; 507500, 4702300; 507300, 4702300; 507300, 4702200; 507400, 4702200; 507400, 4702100; 507600, 4702100; 507600, 4702000; 507700, 4702000; 507700, 4701800; 507800, 4701800; 507800, 4701700; 507900, 4701700; 507900, 4701400; 507700, 4701400; 507700, 4701500; 507600, 4701500; 507600, 4701600; 507300, 4701600; 507300, 4701700; 507100, 4701700; 507100, 4701800; 507000, 4701800; 507000, 4701900; 506900, 4701900; 506900, 4702000; 506800, 4702000; 506800, 4702200; 506700, 4702200; 506700, 4702400; 506600, 4702400; 506600, 4702500; 506500, 4702500; 506500, 4702700; 506600, 4702700; 506600, 4702900; 506700, 4702900; 506700, 4703100; 506800, 4703100; 506800, 4703400; 507000, 4703400; 507000, 4703500; 507200, 4703500; 507200, 4703400; 507300, 4703400; 507300, 4703300; 507800, 4703300; 507800, 4703200; 507900, 4703200; 507900, 4703100; 508000, 4703100; 508000, 4703000; 508100, 4703000; 508100, 4702900; 508200, 4702900; 508200, 4702800; 508300, 4702800; 508300, 4702700; 508400, 4702700; 508400, 4702500; 508500, 4702500; 508500, 4702300; 508600, 4702300; 508600, 4701900; 508800, 4701900; 508800, 4701500; 508700, 4701500; 508700, 4701400; 508600, 4701400; returning to 508600, 4701300.

(21) Subunit 4B: Jackson County, Oregon. From USGS 1:24,000 quadrangle map Sams Valley, Oregon, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 504000, 4698900; 503800, 4698900; 503800, 4699000; 503700, 4699000; 503700, 4699400; 503800, 4699400; 503800, 4699800; 503700, 4699800; 503700, 4700900; 503800, 4700900; 503800, 4700800; 503900, 4700800; 503900, 4700700; 504000, 4700700; 504000, 4700600; 504300, 4700600; 504300, 4700500; 504400, 4700500; 504400, 4699500; 504200, 4699500; 504200, 4699200; 504100, 4699200; 504100, 4699100; 504000, 4699100; returning to 504000, 4698900.

(22) Unit 5: Shasta County, California. From USGS 1:24,000 quadrangle maps Balls Ferry, Cottonwood, Enterprise, and Palo Cedro, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 564200, 4480900; 563600, 4480900; 563300, 4481000; 563100, 4480900; 562900, 4480900; 562500, 4481200; 562400, 4481500; 562400, 4481700; 562300, 4482400; 562000, 4482500; 561900, 4482800; 561800, 4483300; 561500, 4483700; 561000, 4484000; 560700, 4485400; 560700, 4486500; 560800, 4486700; 561000, 4486900; 561200, 4487000; 561300, 4487600; 561600, 4487900; 562000, 4487900; 562500, 4487400; 562700, 4487100; 562900, 4487200; 563200, 4487200; 563300, 4487000; 563300, 4486700; 563800, 4486400; 564300, 4484700; 564300, 4484400; 564500, 4484100; 564500, 4483800; 564600, 4483700; 564600, 4483400; 564400, 4483100; 564100, 4482800; 564100, 4482600; 564300, 4482600; 564300, 4482400; 564300, 4482300; 564200, 4482200; 564100, 4482100; 564000, 4482100; 564200, 4481800; 564200, 4480900; excluding land bound by 562900, 4482600; 562900, 4485000; 562100, 4485000; 562100, 4485372; 562100, 4485400; 561700, 4485400; 561700, 4485400; 561700, 4485779; 561700, 4485800; 561300, 4485800; 561300, 4484100; 562100, 4484100; 562300, 4484010; 562300, 4484000; 562300, 4483803; 562300, 4483800; 562304, 4483794; 562500, 4483500; 562500, 4483500; 562400, 4483500; 562400, 4483500; 562400, 4482600; returning to 562900, 4482600.

(23) Unit 6: Tehama County, California. From USGS 1:24,000 quadrangle maps Corning, Gerber, Henleyville, Red Bluff East, Red Bluff West, West of Gerber, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 555200, 4423600; 555100, 4423600; 555000, 4423600; 554600, 4424900; 555100, 4425600; 557200, 4426300; 557800, 4426800; 558300, 4426500; 559500, 4428300; 558200, 4428200; 557800, 4428500; 557400, 4429300; 558000, 4429900; 558600, 4430000; 558600, 4431100; 560000, 4431600; 559200, 4431900; 558300, 4432000; 557400, 4432200; 557400, 4432600; 558400, 4433100; 558400, 4433600; 557800, 4433600; 557500, 4433800; 557300, 4434400; 555100, 4434800; 555100, 4435400; 557000, 4436200; 557900, 4439000; 557000, 4439000; 554600, 4437400; 553200, 4437000; 553200, 4437600; 554500, 4438100; 555400, 4439700; 556500, 4439800; 556500, 4441800; 558500, 4442600; 558500, 4443000; 557400, 4442900; 557000, 4443000; 556800, 4443400; 557500, 4444300; 558000, 4443700; 558400, 4443700; 559800, 4443900; 559800, 4443700; 559700, 4443500; 559700, 4443200; 559900, 4443400; 560000, 4443500; 560500, 4443500; 560700, 4443600; 561000, 4443700; 561700, 4443900; 562400, 4444000; 562500, 4444100; 562600, 4444100; 562600, 4444500; 562900, 4444500; 563400, 4444500; 563400, 4444400; 563500, 4444400; 563700, 4444400; 563800, 4443800; 564200, 4443800; 564300, 4443600; 564200, 4443400; 564100, 4443200; 564000, 4443200; 564000, 4443000; 564100, 4443000; 564100, 4442800; 564100, 4442700; 564100, 4442600; 564200, 4442600; 564300, 4442900; 564400, 4443100; 564400, 4443400; 564700, 4443400; 565200, 4443400; 565500, 4443300; 565800, 4442900; 566100, 4442900; 566200, 4442500; 566100, 4442400; 566100, 4442100; 565800, 4441900; 566000, 4441600; 566000, 4441500; 565400, 4441200; 565500, 4441000; 565400, 4440800; 565400, 4440200; 565400, 4439000; 566100, 4439000; 566100, 4439300; 566500, 4439900; 566400, 4440400; 566000, 4440600; 567500, 4441200; 567900, 4441200; 568700, 4440600; 568400, 4440400; 568300, 4439900; 568700, 4439100; 569500, 4439400; 570200, 4438100; 569400, 4438200; 569000, 4438300; 568600, 4438400; 567800, 4438400; 567600, 4438400; 567400, 4438200; 567000, 4438100; 567000, 4438000; 566800, 4437700; 566800, 4437400; 566200, 4437400; 566200, 4438200; 565900, 4438400; 565400, 4438000; 564200, 4438000; 564200, 4437800; 563900, 4437800;

563600, 4437600; 563400, 4437400; 563400, 4436900; 563400, 4436600; 563200, 4436600; 563200, 4436200; 563200, 4435800; 563500, 4435800; 563700, 4436100; 564200, 4436400; 564500, 4436500; 564700, 4436500; 564900, 4436400; 564900, 4436200; 564800, 4435800; 565100, 4435800; 564800, 4435500; 564500, 4435500; 564400, 4435400; 564200, 4435200; 564100, 4435000; 563800, 4434900; 563600, 4434700; 563500, 4434500; 563400, 4434500; 563200, 4434200; 563600, 4434200; 563600, 4432600; 563700, 4432600; 563500, 4432100; 564500, 4432000; 564500, 4431500; 565400, 4431500; 565400, 4431400; 567000, 4431300; 567000, 4430700; 566800, 4430500; 567400, 4430500; 567500, 4429600; 566800, 4429600; 566300, 4429600; 566100, 4429700; 566100, 4429100; 566000, 4429200; 565800, 4429300; 565500, 4429200; 565300, 4429200; 565100, 4429000; 564600, 4429000; 564300, 4428700; 564000, 4428700; 563700, 4428500; 563700, 4428200; 564100, 4428200; 564600, 4428200; 565500, 4428300; 566600, 4428100; 566600, 4428000; 567000, 4428000; 567100, 4427900; 567300, 4427200; 566900, 4427200; 566100, 4426900; 566000, 4426700; 565500, 4426700; 565400, 4426600; 564800, 4426600; 564800, 4426200; 564800, 4425900; 563700, 4425800; 562600, 4425100; 562300, 4425000; 562100, 4425000; 562000, 4425000; 561800, 4424900; 561700, 4424800; 561600, 4424800; 561500, 4424800; 561300, 4424800; 561200, 4424800; 560900, 4424900; 560700, 4424900; 560400, 4425000; 560100, 4424900; 559800, 4424800; 559800, 4424500; 559700, 4424400; 559400, 4424300; 559300, 4424400; 559200, 4424500; 559100, 4424500; 558900, 4424700; 558700, 4424800; 558300, 4424800; 558100, 4424800; 557900, 4424600; 557700, 4424500; 557300, 4424300; 557000, 4424200; 556800, 4424100; 556600, 4424100; 556100, 4424000; 555900, 4424000; 555800, 4423900; 555900, 4423800; 555800, 4423800; 555500, 4423800; 555400, 4423800; 555300, 4423700; returning to 555200, 4423600.

(24) Unit 7: Butte and Tehama Counties, California. From USGS 1:24,000 quadrangle maps Acorn Hollow, Campbell Mound, Foster Island, Nord, Richardson Springs, Richardson Springs NW, and Vina, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N):

(i) Start at 592400, 4416700; 592500, 4416600; 592500, 4416000; 592000, 4416000; 592000, 4415800; 592500, 4415800; 593800, 4416300; 594100, 4416300; 594400, 4416300; 594400, 4415800; 594900, 4415800; 594900, 4416300; 595500, 4416300; 595500, 4416400; 595900, 4416500; 596000, 4416500; 596100, 4416400; 596200, 4416500; 596300, 4416600; 596400, 4416700; 596500, 4416700; 596500, 4416800; 596600, 4416800; 597100, 4416400; 597100, 4415600; 596800, 4415200; 597100, 4415000; 597800, 4415500; 598100, 4415200; 597600, 4414600; 597600, 4414400; 597300, 4413800; 597300, 4413300; 598200, 4413900; 598400, 4413900; 598400, 4413600; 597400, 4411900; 597600, 4411900; 598300, 4412700; 598500, 4413300; 598900, 4413300; 598900, 4411800; 599400, 4411700; 599800, 4411700; 599800, 4411000; 599300, 4410700; 599100, 4410800; 599000, 4410800; 598800, 4410600; 598500, 4410400; 598300, 4410100; 598100, 4410000; 598000, 4409900; 597700, 4409800; 597600, 4409600; 597500, 4409500; 597300, 4409500; 597100, 4409400; 596900, 4409200; 596800, 4409200; 596700, 4409100; 596200, 4409100; 596000, 4408900; 595900, 4408800; 595700, 4408800; 595500, 4408200; 594300, 4408200; 594100, 4408300; 594000, 4408400; 593600, 4408500; 593400, 4408200; 593300, 4408200; 593300, 4408500; 592900, 4408500; 592900, 4408600; 593000, 4408600; 593100, 4409200; 593200, 4409200; 593200, 4409300; 592900, 4409300; 592900, 4409500; 593100, 4409600; 593100, 4409500; 593200, 4409500; 593200, 4409800; 593300, 4409900; 593300, 4410400; 593100, 4410400; 592900, 4410200; 592600, 4410200; 592600, 4410000; 592500, 4409900; 592500, 4409700; 591700, 4409400; 591500, 4409400; 591700, 4409100; 591700, 4409000; 591500, 4409000; 591500, 4408600; 590900, 4408600; 590900, 4408900; 590700, 4409000; 590800, 4409400; 591000, 4409500; 591200, 4409500; 591100, 4409800; 590500, 4409800; 590300, 4409600; 590300, 4409500; 590100, 4409500; 590000, 4409400; 590300, 4409400; 590400, 4409000; 590500, 4408600; 590100, 4408600; 590100, 4408800; 589900, 4409000; 589500, 4408900; 589300, 4408900; 589300, 4409200; 589400, 4409200; 589400, 4409400; 589300, 4409400; 589300, 4409800; 589700, 4409800; 589700, 4410600; 588400, 4410600; 588300, 4411300; 588100, 4411400; 588100, 4412000; 588100, 4413300; 588200, 4413500; 588300, 4413900; 588500, 4414000; 588500, 4414600; 589200, 4414700; 589200, 4415000; 589200, 4415300; 589400, 4415500; 589700, 4415600; 589700, 4415800; 589900, 4415800; 590000, 4415900; 590000, 4416000; 589900, 4416000; 589400, 4415900; 589100, 4415800; 589000, 4415700; 588800, 4415500; 588700, 4415400; 588600, 4415100; 588200, 4415100; 588200, 4416000; 588300, 4416200; 588300, 4416600; 588800, 4417000; 589100, 4417400; 589200, 4417600; 589200, 4417700; 589300, 4417900; 589300, 4418100; 589400, 4418200; 589300, 4418300; 590700, 4419800; 588000, 4417000; 587500, 4416400; 587200, 4415500; 587200, 4415100; 587300, 4415000; 587300, 4414500; 587200, 4414400; 587100, 4414300; 586900, 4414000; 586400, 4413900; 586200, 4413700; 586000, 4413600; 585800, 4413600; 585800, 4414700; 585300, 4414700; 585300, 4413800; 585200, 4413700; 584800, 4413700; 584600, 4413600; 584400, 4413600; 584200, 4413500; 584000, 4413700; 583200, 4413400; 583000, 4414200; 583700, 4414600; 583500, 4415000; 583000, 4415900; 583000, 4416400; 582900, 4416700; 582800, 4416900; 582700, 4417000; 582700, 4417200; 582900, 4417300; 582800, 4417400; 582700, 4417500; 582700, 4417600; 582600, 4417700; 582600,

4418000; 582600, 4418100; 582600, 4418200; 582700, 4418300; 582500, 4418400; 582400, 4418300; 582200, 4418300; 582100, 4418400; 582100, 4418500; 582000, 4418600; 582100, 4418700; 582100, 4418900; 582200, 4419100; 582100, 4419300; 582200, 4419500; 582100, 4419600; 582000, 4419700; 582100, 4419800; 582100, 4419900; 582200, 4420000; 582200, 4420300; 582100, 4420500; 582200, 4420600; 582200, 4420800; 582300, 4421100; 582900, 4421500; 582900, 4421600; 583300, 4422000; 583400, 4422100; 583900, 4422100; 584100, 4422300; 584200, 4422300; 584300, 4422400; 584400, 4422500; 584600, 4422900; 585100, 4423400; 585600, 4423700; 585800, 4423900; 585800, 4424200; 586100, 4424200; 586600, 4424800; 586800, 4424900; 587300, 4425500; 587400, 4425600; 587500, 4425800; 587500, 4425900; 587600, 4426000; 587700, 4426100; 587800, 4426100; 587900, 4426200; 587900, 4426300; 588200, 4426500; 588700, 4429900; 588900, 4429500; 589500, 4429500; 589500, 4428600; 589500, 4428000; 589800, 4427100; 590500, 4426400; 590500, 4425300; 591200, 4424400; 591500, 4423300; 591600, 4422100; 591700, 4421900; 591900, 4421800; 593000, 4421800; 593100, 4421500; 593500, 4421400; 593700, 4420900; 591800, 4420600; 591800, 4420400; 592300, 4420500; 592800, 4420400; 593100, 4420500; 594000, 4420800; 594400, 4420600; 594500, 4420300; 593800, 4420000; 593600, 4419700; 593600, 4419400; 593200, 4419100; 593600, 4418900; 594300, 4419000; 594300, 4418800; 594300, 4418700; 594200, 4418300; 594100, 4418000; 594100, 4417900; 594700, 4417900; 595100, 4417800; 595800, 4417300; 595800, 4416600; 595100, 4416500; 594400, 4416500; 594000, 4416400; 593300, 4416400; 592800, 4416600; returning to 592400, 4416700; excluding land bound by 591500, 4409600; 591600, 4409900; 591400, 4409900; 591400, 4410200; 591600, 4410200; 591600, 4410600; 590700, 4410600; 591400, 4409600; returning to 591500, 4409600.

(ii) Start at 602900, 4402100; 602700, 4402100; 602300, 4402600; 602300, 4402700; 601800, 4403300; 601200, 4403300; 601000, 4403400; 601000, 4403200; 601100, 4403100; 601100, 4402700; 600300, 4402700; 600300, 4403000; 600200, 4403200; 600200, 4403600; 599700, 4403600; 599600, 4403700; 599400, 4403700; 599200, 4403600; 598100, 4403600; 597900, 4403800; 597800, 4403800; 597000, 4404000; 596600, 4404400; 596600, 4404700; 596900, 4404700; 596900, 4404800; 596600, 4404800; 596600, 4405100; 596700, 4405200; 596500, 4405200; 596200, 4405000; 596100, 4405000; 596100, 4405400; 596500, 4405400; 596500, 4405900; 595600, 4405900; 595400, 4405900; 595400, 4406600; 595800, 4406600; 595800, 4407400; 596100, 4407400; 596300, 4407700; 596400, 4407800; 596800, 4407800; 596800, 4407500; 597300, 4407500; 597300, 4407700; 597600, 4407700; 597900, 4407500; 598100, 4407500; 598100, 4407100; 597700, 4406800; 597800, 4406700; 597500, 4406500; 597300, 4406700; 597100, 4406600; 597500, 4406100; 597100, 4405900; 597600, 4405100; 598000, 4405300; 598400, 4404700; 598500, 4404800; 598200, 4405300; 598400, 4405300; 598500, 4405400;

598600, 4405500; 598700, 4405400; 598800, 4405600; 598900, 4405600; 598900, 4404800; 598900, 4404400; 599000, 4404400; 599200, 4404000; 599300, 4404000; 599500, 4404200; 599700, 4404100; 600100, 4404200; 600400, 4404200; 600400, 4404400; 599800, 4404400; 599800, 4405200; 599600, 4405200; 599500, 4405100; 599600, 4405000; 599600, 4404800; 599100, 4404800; 599100, 4405700; 599000, 4405800; 598900, 4406100; 598700, 4406000; 598500, 4406300; 598500, 4407200; 598300, 4407200; 598300, 4407500; 598300, 4407700; 598800, 4407900; 598900, 4408100; 599200, 4408400; 600200, 4408900; 600300, 4408800; 600300, 4408400; 600000, 4408100; 600400, 4407600; 599500, 4406700; 599500, 4406200; 600300, 4406000; 601200, 4405600; 601800, 4405600; 602000, 4405500; 602200, 4405200; 602500, 4405200; 602700, 4404900; 603300, 4404700; 604500, 4404200; 605200, 4404200; 605600, 4404000; 605600, 4403600; 605100, 4403300; 604700, 4403400; 604500, 4403300; 604475, 4403175; 604400, 4403100; 604300, 4403100; 604200, 4403000; 604100, 4402900; 604000, 4402900; 603800, 4402800; 603800, 4402600; 603600, 4402400; 603400, 4402400; 603200, 4402500; 603100, 4402400; 602900, 4402400; returning to 602900, 4402100.

(25) Unit 8: Glenn and Tehama Counties, California. From USGS 1:24,000 quadrangle maps Black Butte Dam and Kirkwood, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 563400, 4405400; 563200, 4405700; 562800, 4405800; 561400, 4406200; 560900, 4406200; 560600, 4406300; 560500, 4406400; 560400, 4406600; 560400, 4406900; 560800, 4406900; 560800, 4407300; 561200, 4407300; 561200, 4411300; 565500, 4411300; 565500, 4410500; 568400, 4410500; 568400, 4411400; 570500, 4411400; 570800, 4411700; 571400, 4411500; 571500, 4411000; 572100, 4410900; 572100, 4410100; 571800, 4409600; 570500, 4409000; 570200, 4409000; 570200, 4409300; 569700, 4409300; 569700, 4409000; 569800, 4407700; 569900, 4407000; 569800, 4406100; 569800, 4405500; 569400, 4405500; 568600, 4405900; 568300, 4405900; 567500, 4405500; 567200, 4405500; 565000, 4405500; 564600, 4405800; 564100, 4405800; 563700, 4405600; returning to 563400, 4405400.

(26) Unit 9: Butte County, California. [Reserved]

(27) Unit 10: Colusa and Glenn Counties, California. [Reserved]

(28) Unit 11: Yuba County, California. From USGS 1:24,000 quadrangle maps Browns Valley and Wheatland, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 632400, 4329000; 631300, 4329000; 631300, 4329200; 631600, 4329200; 631600, 4329800; 631900, 4329800; 631900, 4330600; 632800, 4330600; 633000, 4330900; 633000, 4331300; 633100, 4331500; 633500, 4331700; 633800, 4331500; 633800, 4332200; 635000, 4332200; 635000, 4329900; 633800, 4329900; 633600, 4330100; 633300, 4330100; 633300, 4330300; 632700, 4330100; 632400, 4329900; returning to 632400, 4329000.

(29) Unit 12: Placer and Sacramento Counties, California. From USGS 1:24,000 quadrangle maps Citrus Heights, Lincoln, Pleasant Grove, Rio Linda, Roseville, and Sheridan, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N):

(i) Start at 4309600; 640200, 4306200; 640100, 4306200; 640200, 4306700; 640000, 4306800; 639900, 4306700; 639600, 4306700; 639500, 4306900; 639200, 4306900; 639200, 4306800; 639000, 4306800; 638700, 4306600; 638300, 4306600; 638300, 4307400; 637500, 4307400; 637500, 4308200; 639000, 4308300; 639000, 4309600; 639400, 4309600; 639400, 4309300; 639800, 4309300; 639800, 4309800; 639400, 4309800; 639400, 4310400; 639700, 4310300; 639900, 4310300; 640500, 4310700; 640500, 4311000; 640900, 4311000; 641000, 4311200; 641200, 4311200; 641200, 4311500; 641900, 4311500; 642100, 4311000; 642000, 4310900; 642000, 4310800; 642100, 4310800; 642100, 4310300; 642900, 4310500; 642900, 4310600; 643300, 4310700; 643700, 4310500; 644000, 4310900; 644300, 4310400; 645400, 4310400; 645800, 4310200; 646100, 4310200; 646300, 4310000; 647500, 4310000; 647500, 4310200; 646800, 4310200; 646500, 4310300; 646500, 4310600; 646600, 4310700; 646100, 4310700; 645900, 4310800; 645900, 4311200; 646100, 4311100; 646500, 4311100; 646500, 4311200; 646300, 4311200; 646300, 4311400; 646400, 4311700; 646800, 4311700; 646800, 4312000; 646900, 4312100; 646800, 4312500; 647000, 4312600; 647100, 4312800; 647300, 4312800; 647400, 4312700; 647400, 4312800; 647300, 4312900; 647100, 4312900; 646800, 4312698; 646800, 4313000; 646900, 4313400; 647100, 4313800; 647300, 4314200; 648300, 4314200; 648300, 4313900; 647900, 4313400; 647900, 4312700; 648000, 4312500; 647900, 4311500; 647700, 4311500; 647600, 4311300; 647300, 4311400; 646900, 4311400; 646900, 4311300; 647200, 4311300; 647500, 4311200; 647800, 4311200; 647900, 4311100; 647800, 4311000; 646900, 4311000; 646800, 4310900; 646800, 4310800; 647400, 4310800; 647500, 4310900; 647600, 4310800; 647800, 4310700; 648000, 4310700; 648000, 4309700; 647200, 4309700; 647200, 4309200; 646700, 4309100; 646700, 4308800; 646600, 4308800; 646100, 4309100; 646100, 4308200; 646400, 4307900; 646400, 4307100; 646400, 4306700; 645600, 4306700; 645600, 4307100; 645600, 4308400; 644400, 4308400; 644400, 4308300; 643900, 4308300; 643900, 4307400; 643700, 4307400; 643300, 4308900; 643100, 4308500; 643000, 4308900; 642700, 4308900; 642900, 4308200; 642800, 4308100; 642600, 4307500; 642300, 4307400; 642100, 4307200; 641500, 4307200; 641500, 4307500; 642000, 4307500; 642000, 4307600; 642300, 4307600; 642300, 4308900; 642200, 4308900; 642200, 4308300; 641500, 4308300; 641400, 4310500; 640900, 4310500; 640700, 4310400; 640500, 4310400; 640500, 4309800; 640300, 4309800; 640300, 4309700; 640500, 4309700; 640600, 4306700; 640500, 4306300; returning to 640200, 4306200.

(ii) Start at 644400, 4306700; 644400, 4307000; 644500, 4307000; 644600, 4306900; 644600, 4306700; returning to 644400, 4306700.

(iii) Start at 647700, 4301800; 647700, 4301300; 648100, 4301200; 648300, 4301300; 648400, 4301300; 648500, 4301200; 648300, 4301100; 648200, 4301000; 648200, 4300300; 648400, 4300300; 648400, 4299000; 648600, 4299000; 648900, 4298800; 649200, 4298100; 649600, 4298100; 649700, 4297900; 649200, 4297400; 649100, 4297600; 648900, 4297500; 649000, 4297200; 649000, 4297100; 647900, 4297100; 647900, 4297300; 648500, 4297700; 648500, 4297900; 648300, 4297900; 648300, 4298100; 648400, 4298200; 648400, 4298300; 648300, 4298400; 648200, 4298400; 648100, 4298300; 648000, 4298200; 648200, 4298100; 648200, 4297900; 647600, 4297900; 647600, 4299300; 646800, 4299300; 646800, 4299700; 646900, 4299700; 646900, 4300300; 646800, 4300500; 645800, 4300500; 645800, 4300200; 646600, 4300300; 646500, 4300200; 646500, 4299700; 646300, 4299700; 646300, 4299400; 646400, 4299400; 646400, 4299300; 646400, 4297200; 645800, 4297200; 645800, 4296435; 645800, 4296300; 645800, 4296100; 645700, 4296100; 645600, 4296000; 645500, 4296100; 645300, 4296000; 645200, 4296000; 645200, 4296100; 645100, 4296100; 645000, 4296200; 645200, 4296200; 645400, 4296300; 645600, 4296400; 645700, 4296700; 645700, 4297000; 643300, 4297000; 643300, 4295300; 643800, 4295400; 643200, 4295000; 642500, 4295000; 642600, 4290000; 642400, 4289800; 641600, 4289500; 640500, 4289500; 640500, 4289400; 640200, 4289400; 640200, 4289900; 639700, 4289900; 639700, 4289400; 639500, 4289400; 639400, 4289500; 637300, 4289500; 637300, 4288400; 636700, 4288400; 636700, 4288000; 636600, 4288000; 636500, 4287700; 635700, 4287700; 635600, 4288900; 634900, 4289000; 634500, 4288700; 634500, 4288300; 634100, 4288500; 634000, 4288700; 634500, 4289100; 633400, 4289100; 633300, 4288700; 632800, 4288700; 632800, 4289200; 633100, 4289200; 633500, 4289500; 633800, 4289500; 633800, 4289700; 634100, 4289900; 634100, 4290398; 634200, 4290400; 634200, 4290500; 634400, 4290600; 634100, 4290800; 633800, 4290800; 633700, 4290900; 633700, 4291300; 633800, 4291200; 634900, 4291200; 634900, 4290500; 635000, 4290400; 635700, 4290400; 636100, 4290400; 636300, 4290100; 637000, 4290100; 637200, 4290200; 637200,

4290400; 638100, 4290700; 637900, 4292300; 638300, 4292500; 638200, 4292800; 638300, 4292800; 638300, 4293000; 638800, 4293000; 638800, 4293100; 639000, 4293100; 638900, 4294300; 638600, 4294300; 638300, 4294500; 637300, 4294400; 637300, 4295500; 638100, 4295500; 638200, 4295700; 638700, 4295700; 638700, 4295300; 638300, 4295300; 638300, 4294900; 638900, 4294900; 638900, 4295300; 639500, 4295300; 639500, 4295400; 640000, 4295400; 640000, 4295800; 639500, 4296100; 639500, 4296900; 639300, 4296900; 639300, 4298500; 640000, 4298500; 640000, 4300100; 639500, 4300100; 639500, 4299800; 639300, 4299800; 639300, 4298700; 639100, 4298700; 639000, 4298500; 638800, 4298500; 638700, 4298300; 638700, 4298100; 638500, 4298000; 638500, 4297800; 638200, 4297800; 638100, 4297700; 638000, 4297800; 637800, 4297800; 637600, 4297600; 637200, 4297600; 637200, 4297300; 636900, 4297100; 636300, 4296900; 635600, 4297200; 635100, 4297200; 634300, 4297100; 634400, 4297200; 633600, 4297200; 633600, 4297800; 634200, 4297800; 634200, 4297600; 635200, 4297700; 635200, 4298400; 635500, 4298500; 635500, 4298300; 635600, 4298300; 635600, 4298500; 635800, 4298500; 635800, 4300000; 636000, 4300100; 636000, 4300900; 637700, 4300900; 637700, 4300100; 639200, 4300100; 639200, 4301000; 640000, 4301000; 640000, 4301700; 637700, 4301700; 638100, 4302100; 638600, 4302100; 639100, 4302300; 639900, 4302200; 640000, 4301800; 640800, 4301800; 640800, 4302500; 641200, 4302700; 641500, 4302700; 641600, 4302200; 641900, 4301900; 642200, 4302200; 642800, 4301900; 643400, 4301400; 643700, 4302100; 644300, 4302300; 644400, 4302400; 644400, 4302600; 644400, 4302800; 643600, 4302800; 643600, 4303000; 643200, 4303000; 643200, 4303400; 642700, 4303400; 642600, 4303500; 642800, 4304000; 643600, 4304400; 644000, 4304400; 644300, 4304600; 644300, 4304900; 644100, 4304900; 644100, 4305000; 644000, 4305000; 644000, 4306700; 642400, 4306700; 642800, 4306900; 643600, 4307100; 644100, 4307100; 644100, 4306800; 644200, 4306800; 644200, 4306700; 644400, 4306700; 644400, 4305900; 644700, 4305900; 644700, 4305400; 644800, 4305400; 644800, 4305200; 645100, 4305200; 645100, 4305100; 645200, 4305000; 645400, 4305100; 645600, 4305100; 646100, 4304500; 646100, 4305100; 646200, 4305100; 646400, 4304700; 647000, 4304700; 647200, 4304400; 647700, 4304500; 647500, 4303700; 647400, 4303500; 645400, 4303500; 645300, 4303700; 645100, 4303700; 644800, 4303600; 644900, 4303100; 644700, 4303000; 644700, 4302500; 644500, 4302300; 644500, 4301900; 644700, 4301900; 644800, 4302000; 644900, 4302100; 645100, 4302100; 645300, 4302300; 645600, 4302300; 646000, 4302600; 646200, 4302600; 646500, 4302900; 646600, 4303100; 646800, 4303100; 646800, 4303200; 647000, 4303200; 647100, 4303300; 647200, 4303300; 647300, 4303400; 647400, 4303400; 647400, 4303200; 647500, 4303200; 647500, 4303500; 648200, 4303500; 648400, 4303400; 648300, 4303300; 648500, 4303200; 648600, 4303200; 648700, 4303100; 648600, 4303000; 648200, 4303000; 648100, 4302900; 647700, 4302900; returning to 647700, 4301800; excluding land bound by 640300, 4294900; 640300, 4294200; 641000, 4294200; 641000, 4294900; returning to 640300, 4294900.

(30) Unit 13: Sacramento County, California. [Reserved]

(31) Unit 14: Amador and Sacramento Counties, California. From USGS 1:24,000 quadrangle maps Carbondale, Clay, Goose Creek, and Sloughhouse, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 668900, 4255600; 669300, 4255400; 670600, 4255800; 671500, 4256400; 671700, 4256000; 671900, 4256000; 672200, 4255600; 672400, 4255600; 672700, 4256400; 673200, 4256400; 672800, 4255100; 672800, 4254800; 673100, 4254900; 673800, 4254900; 674000, 4254600; 674000, 4254400; 674500, 4254000; 674500, 4253700; 674100, 4253500; 674100, 4252900; 674300, 4252300; 674500, 4251900; 674500, 4251600; 673400, 4251500; 673300, 4251400; 673300, 4251200; 673900, 4251000; 674000, 4250500; 674300, 4250000; 674300, 4249800; 674200, 4249700; 673900, 4249700; 673600, 4249900; 672500, 4249900; 671900, 4250200; 671300, 4250200; 671100, 4250500; 671000, 4250500; 671000, 4249800; 670700, 4249800; 670700, 4249500; 670800, 4249300; 670800, 4249000; 670900, 4248900; 670900, 4248500; 670500, 4248300; 670500, 4248125; 670400, 4248100; 670400, 4248000; 670100, 4248000; 670100, 4247800; 670500, 4247500; 671100, 4247500; 671600, 4247700; 671800, 4247600; 671900, 4247300; 671900, 4247100; 671500, 4246800; 671600, 4246600; 671800, 4246000; 671300, 4245300; 670800, 4245000; 670000, 4244200; 670000, 4244100; 670500, 4243800; 670200, 4243400; 670200, 4243300; 670300, 4243200; 670400, 4243100; 670600, 4242600; 671200, 4242900; 671600, 4243000; 671600, 4242700; 670700, 4242100; 669800, 4242100; 669300, 4241900; 668900, 4241900; 668700, 4241800; 668500, 4241600; 668400, 4241600; 668200, 4241700; 668000, 4242000; 667900, 4242000; 667400, 4241600; 667400, 4241800; 666400, 4241700; 665400, 4241700; 665400, 4242700; 665000, 4242700; 665000, 4242300; 664800, 4242300; 664800, 4242200; 664700, 4242200; 664600, 4242100; 664500, 4242100; 664500, 4241300; 664000, 4241300; 664000, 4241000; 663500, 4241000; 663500, 4240900; 663400, 4240800; 663300, 4240800; 663300, 4240600; 663100, 4240600; 663100, 4240900; 662800, 4240900; 662800, 4240500; 662700, 4240400; 662700, 4240000; 662500, 4240000; 662500, 4239600; 662100, 4239600; 662100, 4239400; 662000, 4239300; 661700, 4239300; 661700, 4239200; 661400, 4239000; 661400, 4239900; 661500, 4239900; 661500, 4241600; 661500, 4241900; 661700, 4242000; 662200, 4242000; 662200, 4241600; 662900, 4241600; 662800, 4242300; 662500, 4242300; 662600, 4243000; 662900, 4243100; 663400, 4243100; 663400, 4243800; 663000, 4243800; 663000, 4243900; 662500, 4243900; 662700, 4244700; 662850, 4244800; 663000, 4244900; 663100, 4245300; 663800, 4245300; 663900, 4245500; 664400, 4245600; 664500, 4245200; 664600, 4245200; 664900, 4245275; 665000, 4245300; 664900, 4245700; 664900, 4246500; 664400, 4246500; 663900, 4246700; 662500, 4246300; 662200, 4246300; 662100, 4246400; 661700, 4246400; 662000, 4247300; 661800, 4247500; 660900, 4247500; 660850, 4247100; 659700, 4247100; 659500, 4247300; 659500, 4248300; 660000, 4248300; 659900, 4249600; 660000, 4249900; 659900, 4250200; 659400, 4249700; 659400, 4249500; 659300, 4249200; 659100, 4249000; 659100, 4248900; 659200, 4248800; 659100, 4248700; 658900, 4248700; 658800, 4248600; 658600, 4248600; 658500, 4248800; 658400, 4248900; 658200, 4249000; 658200, 4248900; 658300, 4248700; 658500, 4248500; 658500, 4248400; 658400, 4248300; 658400, 4247900; 658100, 4247900; 658000, 4248500; 656700, 4248500; 656300, 4248900; 655900, 4248200; 656100, 4248100; 656100, 4248000; 656000, 4247800; 655200, 4247800; 655200, 4247200; 654700, 4247200; 654700, 4248750; 654700, 4249000; 655100, 4249000; 655800, 4249000; 656300, 4249700; 656600, 4249500; 657200, 4250200; 656700, 4251100; 657700, 4251100; 657700, 4251500; 656700, 4251400; 656700, 4252100; 656500, 4252300; 656500, 4252600; 657000, 4253700; 657400, 4254600; 657800, 4254300; 657800, 4254200; 658900, 4253500; 659000, 4253500; 659300, 4253300; 660000, 4254500; 660100, 4254800; 660200, 4254900; 660300, 4255200; 660600, 4255300; 660700, 4255400; 660800, 4256000; 660600, 4256200; 660300, 4256100; 660000, 4256200; 659800, 4256300; 659850, 4256450; 659900, 4256600; 660200, 4256500; 660300, 4256800; 660600, 4256700; 660800, 4256800; 660600, 4257000; 660700, 4257500; 660600, 4257600; 660600, 4258000; 659900, 4258000; 659900, 4258100; 659700, 4258300; 659700, 4258500; 659600, 4258800; 659700, 4259100; 660100, 4259300; 660300, 4259100; 660500, 4259100; 660600, 4259300; 660800, 4259300; 661300, 4259800; 661600, 4259700; 661600, 4259300; 661800, 4259300; 661800, 4259100; 662200, 4259100; 662200, 4259600; 662400, 4259600; 662700, 4259100; 662900, 4258900; 662800, 4258700; 662700, 4258500; 662000, 4258100; 661500, 4257700; 661200, 4257100; 661600, 4256700; 662000, 4256700; 661900, 4256400; 661800, 4256100; 661800, 4255800; 661600, 4255600; 662100, 4255400; 662300, 4255800; 663100, 4255800; 664100, 4256600; 664500, 4257000; 664800, 4257500; 664800, 4257800; 665100, 4258100; 665100, 4258500; 665400, 4258700; 665900, 4258800; 666500, 4258800; 666700, 4258600; 666600, 4258200; 666300, 4258000; 666100, 4257400; 666000, 4257300; 666000, 4257000; 666400, 4257000; 666500, 4257600; 666800, 4257600; 666900, 4257400; 666900, 4257100; 666700, 4256900; 666800, 4256700; 666700, 4256300; 666600, 4256100; 667200, 4256100; 667400, 4256300; 667600, 4256300; 667800, 4256100; 667900, 4256300; 668100, 4256300; 668400, 4255900; returning to 668900, 4255600.

(32) Unit 15: Solano County, California. [Reserved]

(33) Unit 16: Solano County, California. [Reserved]

(34) Unit 17: Napa County, California. From USGS 1:24,000 quadrangle map Cuttings Wharf, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 562800, 4228500; 562500, 4228500; 561500, 4228900; 561300, 4229000; 560800, 4229200; 560600, 4229600; 560400, 4230200; 560500, 4230600; 560500, 4230900; 560800, 4231200; 561400, 4231200; 561400, 4230700; 561600, 4230600; 561900, 4230600; 562100, 4230800; 562500, 4230800; 563200, 4230900; 563200, 4230600; 563800, 4229500; 564100, 4229600; 564300, 4229200; 563200, 4228900; 563000, 4228900; returning to 562800, 4228500.

(35) Unit 18: San Joaquin and Stanislaus Counties, California. From USGS 1:24,000 quadrangle maps Farmington, Linden, Peters, and Valley Springs SW, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 677400, 4201600; 675800, 4201600; 675700, 4203000; 675900, 4203000; 675900, 4203200; 675700, 4203200; 675700, 4204800; 672500, 4204700; 672500, 4205600; 672800, 4205800; 672800, 4206300; 672100, 4206300; 672100, 4206500; 671800, 4206500; 671600, 4206700; 671600, 4207100; 673200, 4207100; 673200, 4207396; 674000, 4207400; 674000, 4207700; 674700, 4207500; 674700, 4207200; 675100, 4207200; 675600, 4207400; 675600, 4208100; 675300, 4208100; 675300, 4208000; 674500, 4208000; 674400, 4208100; 674200, 4208200; 673900, 4208400; 673900, 4208700; 674800, 4208800; 674700, 4209300; 674600, 4209300; 674600, 4209600; 673900, 4209600; 673900, 4209800; 673500, 4209700; 673200, 4209600; 673200, 4209500; 673100, 4209500; 673100, 4211900; 673500, 4211800; 673900, 4211700; 673900, 4211400; 674100, 4211400; 674100, 4211500; 674300, 4211500; 674300, 4211600; 674900, 4211400; 675200, 4211500; 675200, 4211700; 675300, 4211800; 675300, 4211900; 675500, 4211900; 675500, 4212400; 676000, 4212400; 676600, 4211200; 676300, 4211200; 676400, 4211000; 676300, 4210600; 676200, 4210500; 676100, 4210500; 675800, 4210300; 675600, 4210200; 675700, 4210000; 675900, 4209700; 675900, 4209600; 676500, 4209600; 676700, 4210100; 676700, 4210800; 677200, 4211300; 678700, 4211300; 678800, 4210500; 680200, 4210400; 680200, 4209700; 681100, 4209700; 681800, 4210300; 682900, 4210100; 682900, 4209600; 681500, 4209100; 681300, 4208500; 680800, 4208400; 680800, 4206100; 680500, 4205700; 680400, 4205100; 679700, 4204600; 679700, 4203305; 679200, 4203300; 679200, 4203400; 679000, 4203400; 679000, 4203300; 678500, 4203300; 678400, 4203100; 678300, 4203100; 678300, 4203000; 678400, 4202900; 678400, 4202700; 677700, 4202200; 677700, 4202200; 677600, 4201700; 677500, 4201700; returning to 677400, 4201600.

(36) Subunit 19A: Contra Costa County, California. From USGS 1:24,000 quadrangle maps Antioch South and Brentwood, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 611400, 4193400; 610900, 4193500; 610200, 4193700; 609900, 4193900; 609700, 4194000; 609100, 4194000; 608100, 4194300; 608500, 4194900; 608400, 4195100; 608600, 4195300; 608600, 4195900; 609600, 4195900; 609500, 4195600; 609200, 4195100; 609200, 4195000; 609300, 4194900; 609900, 4194800; 610200, 4194800; 610500, 4195100; 611200, 4195900; 612100, 4196300; 612500, 4195900; 611700, 4194500; 611700, 4194300; returning to 611400, 4193400.

(37) Subunit 19B: Contra Costa County, California. From USGS 1:24,000 quadrangle maps Byron Hot Springs and Clifton Court Forebay, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 622300, 4190400; 622400, 4189900; 623000, 4189300; 622900, 4188700; 622200, 4188700; 622100, 4188800; 621900, 4189000; 621700, 4189300; 621400, 4189700; 621200, 4190000; 621200, 4190400; 621100, 4190400; 621100, 4188700; 620900, 4188700; 620600, 4188400; 620400, 4188600; 620400, 4188100; 620500, 4187900; 620600, 4187800; 620700, 4187700; 620900, 4187700; 621100, 4187500; 620500, 4187100; 620500, 4186900; 621300, 4187281; 621600, 4187400; 622000, 4187000; 622400, 4186400; 622600, 4186100; 622500, 4186000; 622500, 4185800; 622000, 4185300; 621200, 4185300; 621000, 4185500; 620800, 4185500; 620500, 4185200; 620200, 4185300; 619900, 4185600; 619600, 4185500; 618200, 4186600; 618100, 4187100; 617700, 4187400; 617800, 4187900; 618200, 4188100; 618500, 4188300; 618400, 4188600; 617700, 4188800; 617400, 4189000; 617400, 4189200; 618200, 4189500; 618100, 4189800; 618200, 4190100; 618700, 4190300; 618700, 4190700; 619000, 4191000; 619300, 4191100; 619600, 4191100; 619800, 4190700; 619900, 4190700; 620100, 4190900; 620400, 4190900; 620500, 4191200; 621800, 4191200; 622200, 4190700; returning to 622300, 4190400.

(38) Subunit 19C: Alameda County, California. From USGS 1:24,000 quadrangle maps Altamont and Livermore, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 612400, 4176300; 612100, 4176300; 612100, 4176400; 612000, 4176500; 611800, 4176500; 611600, 4176500; 611600, 4175300; 611400, 4175300; 611200, 4175400; 610900, 4175400; 610800, 4175900; 610400, 4175900; 610300, 4175200; 610200, 4175100; 610000, 4175000; 610000, 4174800; 609100, 4175400; 608600, 4175600; 608400, 4175900; 610000, 4175900; 610000, 4176500; 610400, 4176500; 610400, 4178500; 610800, 4178300; 610800, 4177500; 610800, 4177200; 611200, 4177200; 611900, 4176700; 612400, 4176700; 612400, 4177200; 613300, 4177200; 613400, 4177000; 613300, 4176900; 613300, 4176800; 613300, 4176700; 613200, 4176700; 613200, 4176300; 613400, 4176300; 613400, 4176200; 613500, 4176200; 613500, 4176300; 613600, 4176400; 613700, 4176400; 613700, 4176600; 614400, 4175500; 614300, 4175400; 614200, 4175400; 614100, 4175300; 614000, 4175300; 613900, 4175200; 613800, 4175100; 613700, 4175100; 613700, 4175200; 613600, 4175200; 613600, 4176100; 613300, 4176100; 613200, 4175900; 613100, 4175900; 612800, 4176100; 612700, 4176100; 612500, 4175900; 612400, 4175900; returning to 612400, 4176300; and excluding land bound by 612400, 4176300; 612500, 4176300; 612700, 4176300; 612700, 4176400; 612400, 4176400; returning to 612400, 4176300.

(39) Unit 20: Stanislaus County, California. [Reserved]

(40) Unit 21: Mariposa, Merced, and Stanislaus Counties, California. From USGS 1:24,000 quadrangle maps Cooperstown, La Grange, Merced Falls, Montpelier, Paulsell, Snelling, and Turlock Lake, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N):

(i) Start at 732200, 4162500; 732700, 4162700; 733000, 4162600; 733600, 4162100; 733700, 4161500; 733600, 4161000; 734600, 4160400; 734800, 4160200; 734800, 4159500; 734400, 4158700; 734300, 4158100; 734500, 4157900; 734700, 4158000; 734900, 4158300; 735000, 4158800; 735500, 4158800; 735700, 4158600; 735600, 4158100; 736200, 4157500; 736800, 4157300; 736900, 4157100; 736900, 4156500; 736300, 4156500; 736000, 4156300; 735500, 4156300; 734100, 4156900; 733400, 4157100; 731700, 4156900; 730900, 4156500; 728900, 4156600; 728700, 4156700; 728700, 4156800; 728600, 4156900; 728300, 4156900; 728100, 4156800; 727900, 4156800; 727100, 4156800; 726900, 4156600; 726700, 4156500; 726300, 4156500; 726100, 4156600; 725800, 4156500; 725600, 4156400; 725500, 4156300; 725400, 4156200; 725100, 4156100; 725000, 4156000; 724900, 4156000; 724800, 4156100; 724300, 4156100; 724300, 4155700; 723800, 4155700; 723900, 4155300; 723300, 4155400; 722700, 4155100; 722700, 4155400; 722300, 4155400; 722300, 4156800; 722900, 4156800; 722900, 4157400; 723500, 4157400; 723500, 4157000; 723700, 4157000; 723700, 4156900; 724300, 4156900; 724300, 4157400; 724200, 4157400; 724100, 4158200; 723800, 4158200; 723700, 4159000; 722500, 4159000; 722500, 4159200; 722400, 4159200; 722300, 4159300; 722200, 4159300; 721600, 4159300; 721600, 4159500; 721500, 4159600; 721500, 4159800; 721600, 4159800; 721600, 4159900; 721700, 4159900; 721700, 4160500; 721100, 4160500; 721100, 4160100; 720800, 4160100; 720800, 4160500;

719500, 4160500; 719500, 4160300; 720000, 4159600; 719600, 4159600; 719600, 4159500; 719500, 4159500; 719400, 4159500; 719300, 4159400; 719100, 4159400; 719000, 4159400; 718900, 4159300; 718700, 4159100; 718600, 4159000; 718600, 4158900; 718400, 4158900; 718200, 4158800; 718200, 4158700; 718300, 4158600; 718400, 4158500; 718500, 4158500; 718600, 4158400; 718700, 4158400; 718900, 4158300; 719000, 4158100; 719000, 4157900; 718700, 4157600; 718000, 4157700; 717800, 4157400; 717900, 4157200; 718000, 4157000; 718400, 4157300; 718700, 4156700; 718700, 4156300; 717500, 4156300; 717500, 4156700; 717100, 4156700; 717100, 4156300; 716600, 4156300; 716600, 4155800; 716300, 4155700; 716200, 4155000; 715900, 4154900; 715900, 4155100; 715800, 4155200; 715800, 4155300; 715700, 4155400; 715600, 4155700; 715500, 4155800; 715400, 4155800; 715300, 4156600; 715400, 4156600; 715400, 4157200; 715400, 4157400; 715500, 4157400; 715500, 4157600; 717600, 4157600; 717600, 4159700; 718100, 4160200; 718200, 4160500; 718400, 4160800; 718700, 4161100; 716800, 4161100; 716800, 4160400; 714900, 4160400; 714900, 4160900; 715000, 4160900; 715000, 4161000; 715200, 4161000; 715200, 4161100; 714400, 4161100; 714400, 4161200; 713700, 4161200; 713700, 4161100; 713300, 4161100; 713200, 4161200; 713100, 4161100; 713100, 4161000; 713400, 4160700; 713400, 4160600; 713600, 4160500; 713800, 4160800; 713900, 4160800; 714000, 4160700; 714000, 4160400; 711100, 4160300; 711100, 4161900; 709500, 4161900; 709500, 4163500; 707900, 4163500; 707900, 4163100; 707000, 4163100; 707000, 4165600; 707400, 4165600; 707400, 4165800; 706700, 4166100; 706500, 4165800; 706200, 4166000; 706300, 4166300; 706200, 4166400; 706200, 4166500; 706300, 4166500; 706300, 4166700; 706200, 4166700; 706200, 4167100; 706500, 4167100; 706700, 4166700; 706800, 4166700; 706800, 4166300; 707000, 4166300; 707000, 4166100; 707200, 4166100; 707200, 4166700; 707400, 4166700; 707800, 4166000; 707800, 4165600; 708000, 4165800; 708200,

4165800; 708400, 4165700; 708400, 4165500; 708200, 4165400; 708200, 4165300; 708300, 4165200; 708400, 4165200; 708500, 4165300; 708600, 4165400; 708800, 4165400; 709100, 4165100; 710200, 4165100; 710200, 4166400; 710100, 4166400; 710100, 4166500; 710000, 4166500; 709900, 4166500; 709900, 4166700; 709800, 4166700; 709800, 4167100; 710200, 4166800; 711000, 4167600; 711600, 4167800; 712400, 4167800; 712400, 4167300; 712900, 4167300; 712900, 4167200; 712600, 4166900; 711800, 4167000; 711600, 4166800; 711600, 4166600; 711800, 4166500; 711800, 4166600; 711900, 4166600; 712000, 4166300; 712100, 4166500; 712200, 4166500; 712300, 4166400; 712500, 4166400; 712500, 4166200; 712700, 4166200; 712700, 4166300; 712800, 4166300; 713000, 4166100; 712800, 4166000; 712700, 4165800; 712500, 4165800; 712500, 4165600; 712700, 4165600; 712600, 4165400; 712400, 4165500; 712300, 4165400; 712500, 4165300; 712500, 4165200; 712400, 4165100; 712600, 4165100; 712600, 4165000; 712600, 4164900; 712700, 4164800; 712600, 4164700; 712500, 4164800; 712400, 4164800; 712400, 4164300; 712800, 4164500; 713100, 4164300; 713200, 4164100; 712900, 4163800; 712900, 4163700; 713100, 4163800; 713500, 4164000; 713600, 4164000; 713600, 4164100; 713700, 4164300; 714200, 4164300; 714400, 4164500; 714500, 4164800; 714600, 4164800; 714800, 4164700; 714800, 4164200; 714400, 4164000; 714400, 4163600; 714500, 4163500; 715200, 4164000; 715300, 4164200; 715400, 4164200; 715300, 4163900; 715100, 4163700; 715000, 4163500; 714800, 4163300; 714900, 4163200; 715000, 4163200; 715700, 4163200; 715900, 4163100; 716000, 4162900; 716100, 4162800; 716200, 4162800; 716300, 4162900; 716400, 4163000; 716500, 4163100; 716600, 4163200; 716600, 4163500; 716500, 4163600; 716500, 4163800; 716600, 4164100; 716800, 4164500; 716700, 4164900; 716800, 4165300; 717200, 4165800; 717200, 4166100; 717000, 4166400; 716600, 4166400; 716400, 4166300; 716400, 4166900; 716600, 4166900; 716800, 4167100; 716800, 4167350; 717000, 4167400; 717500, 4167400; 718100, 4167300; 718500, 4167100; 718600, 4166600; 718700, 4166400; 719100, 4166700; 719300, 4166800; 719500, 4166800; 719500, 4166500; 719600, 4166400; 719600, 4166100; 719800, 4166100; 719900, 4166300; 719900, 4166200; 720700, 4166200; 720700, 4163700; 721700, 4163700; 722400, 4164100; 722400, 4165300; 722200, 4165300; 722200, 4165400; 721500, 4165400; 721500, 4166100; 721000, 4166300; 720700, 4166500; 720900, 4166600; 721000, 4166700; 721100, 4166900; 721000, 4167000; 720300, 4167000; 720100, 4166900; 720200, 4166700; 720200, 4166600; 720100, 4166500; 720000, 4166500; 719800, 4166800; 719500, 4167400; 719500, 4167600; 719700, 4167800; 720500, 4167800; 720700, 4167700; 720900, 4167500; 721100, 4167400; 721300, 4167700; 721700, 4167700; 722000, 4167600; 722500, 4167600; 722900, 4167500; 723300, 4167400; 723000, 4168400; 723000, 4169200; 723300, 4169700; 723800, 4169800; 724100, 4169800; 724600, 4169200; 724700, 4168300; 725100, 4167900; 725300, 4167200; 726200, 4167100; 726500, 4166800; 726500, 4166600; 727300, 4166000; 727700, 4165800; 729000, 4165800; 730100, 4165400; 730400, 4165100; 730500, 4164900; 730700, 4164100; 731300, 4164100; 731700, 4163800; 731800, 4163400; 732200, 4162800; returning to 732200, 4162500.

(ii) Start at 704200, 4166200; 704000, 4166200; 703800, 4166400; 703400, 4166600; 703400, 4166800; 703500, 4166800; 703600, 4166900; 703700, 4167000; 703700, 4167200; 704600, 4167600; 704700, 4167600; 704800, 4167500; 705000, 4167400; 705300, 4167400; 705300, 4166400; 705000, 4166300; 704400, 4166300; returning to 704200, 4166200.

(iii) Start at 712600, 4155200; 712600, 4156800; 712900, 4156800; 712900, 4157100; 714800, 4157200; 714800, 4156800; 714300, 4156300; 714200, 4156200; 714000, 4155500; 714000, 4155400; 713800, 4155400; returning to 712600, 4155200.

(42) Unit 22: Mariposa and Merced Counties, California. From USGS 1:24,000 quadrangle maps Haystack Mtn., Indian Gulch, Le Grand, Merced, Merced Falls, Owens Reservoir, Plainsburg, Planada, Snelling, Winton, and Yosemite Lake, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 745300, 4139300; 745500, 4139300; 745500, 4137700; 746600, 4137100; 747300, 4137300; 747200, 4135800; 747600, 4135300; 747600, 4134800; 748100, 4134400; 747800, 4133700; 748400, 4133300; 748600, 4133900; 749500, 4133400; 749600, 4132100; 750400, 4131600; 750100, 4129800; 751700, 4129800; 751400, 4129700; 751300, 4129700; 751100, 4129500; 751000, 4129400; 750900, 4129200; 750800, 4129000; 750600, 4128900; 750500, 4128800; 750300, 4128700; 750000, 4128700; 749900, 4128700; 749600, 4128800; 749400, 4128600; 749100, 4128500; 748900, 4128400; 748900, 4128100; 748800, 4128000; 748700, 4127800; 748500, 4127600; 748300, 4127500; 748300, 4127300; 748300, 4127100; 748200, 4127000; 748100, 4126800; 748000, 4126700; 747900, 4126700; 747800, 4126700; 747700, 4126400; 747500, 4126200; 747400, 4126000; 747200, 4126000; 747000, 4125900; 746900, 4125900; 746600, 4125800; 746300, 4125700; 746200, 4125600; 746200, 4125500; 745700, 4125500; 745700, 4125100; 744500, 4125100; 744500, 4125300; 744400, 4125300; 744400, 4125200; 743700, 4125200; 743700, 4125800; 744500, 4125800; 744500, 4126200; 743700, 4126200; 743700, 4127000; 742400, 4127000; 742000, 4127200; 742000, 4128600; 742800, 4128600; 742800, 4129100; 742900, 4129100; 743000, 4129100; 743000, 4129200; 743400, 4129300; 743600, 4129500; 743600, 4130700; 743500, 4130700; 743500, 4132200; 744000, 4133400; 742700, 4133400; 742600, 4133500; 741500, 4132900; 740900, 4132200; 740800, 4132600; 740300, 4132600; 740300, 4133500; 741000, 4133500; 741000, 4133900; 741900, 4133900; 741800, 4135800; 741000, 4135800; 741000, 4136400; 741100, 4136400; 741100, 4136700; 740200, 4136700; 739900, 4136400; 739400, 4136400; 739400, 4136700; 737600, 4136700; 737600, 4135900; 737300, 4135900; 737300, 4135300; 737400, 4135200; 737200, 4135000; 736800, 4134800; 736800, 4134600; 736800, 4134400; 736600, 4134200; 733900, 4134200; 733900, 4134800; 733800, 4134900; 733800, 4135000; 733000, 4135000; 733000, 4135800; 732500, 4135800; 730300, 4135700; 730200, 4135600; 730100, 4135600; 729900, 4135700; 729900, 4136500; 729900, 4136700; 730000, 4136700; 730100, 4136600; 730200, 4136600; 730300, 4136600; 730400, 4136700; 730500, 4136800; 730600, 4136900; 730600, 4137000; 730600, 4137200; 730600, 4137300; 730500, 4137400; 730400, 4137500; 730300, 4137500; 729900, 4137700; 729800, 4137700; 729700, 4137600; 729400, 4137600; 729300, 4137800; 729300, 4138400; 729200, 4138500;

729000, 4138400; 728800, 4138700; 728400, 4138800; 728200, 4138800; 727900, 4138600; 727700, 4138500; 727600, 4138400; 727400, 4138300; 727400, 4137800; 727300, 4137800; 727300, 4137600; 727400, 4137600; 727400, 4137500; 727300, 4137500; 727300, 4137400; 727400, 4137400; 727400, 4137200; 726500, 4137200; 726500, 4136500; 726400, 4136400; 725800, 4136400; 725800, 4137200; 725000, 4137200; 724900, 4138800; 725500, 4138800; 725500, 4138700; 725800, 4138700;

725800, 4138800; 725900, 4138800; 725900, 4139500; 726500, 4139500; 726500, 4139600; 725900, 4139600; 725800, 4139600; 725800, 4140200; 725900, 4140200; 725900, 4140900; 725400, 4140900; 725400, 4140800; 725100, 4140800; 725100, 4141000; 724900, 4141000; 724900, 4141200; 724100, 4141200; 724100, 4141600; 723400, 4141600; 723400, 4141100; 723200, 4141100; 723200, 4140600; 723400, 4140500; 723400, 4139500; 724000, 4139500; 724000, 4139400; 723900, 4138900; 723900, 4138700; 723500, 4138200; 723400, 4138200; 723400, 4138300; 723000, 4138300; 723000, 4138700; 723000, 4138900; 723100, 4139100; 723200, 4139400; 723300, 4139500; 722100, 4139500; 722000, 4140500; 721900, 4141100; 721900, 4141900; 721900, 4143400; 720800, 4143400; 720900, 4141800; 721000, 4141500; 721000, 4141200; 721100, 4141100; 721000, 4141000; 717800, 4140900; 717700, 4142500; 714500, 4142400; 714500, 4144900; 715500, 4144900; 715500, 4145000; 715800, 4145000; 715900, 4145000; 716000, 4145000; 716100, 4145100; 716100, 4145200; 716000, 4145200; 715900, 4145300; 715900, 4145400; 716000, 4145500; 716000, 4145600; 716100, 4145700; 717000, 4145700; 717700, 4145300; 717800, 4145300; 717800, 4145200; 717800, 4145100; 717600, 4144900; 717600, 4144800; 717600, 4144700; 717800, 4144500; 717900, 4144600; 718200, 4144600; 718400, 4144500; 718700, 4144500; 718700, 4144800; 718600, 4145000; 718700, 4145100; 718700, 4145600; 718600, 4145600; 718600, 4145700; 718700, 4145800; 718600, 4145900; 718500, 4146000; 718500, 4146100; 718600, 4146200; 718600, 4146500; 718300, 4146500; 718200, 4146600; 718200, 4146800; 718300, 4146800; 718500, 4146900; 718600, 4147000; 718600, 4147100; 718400, 4147200; 718500, 4147300; 718500, 4147600; 718700, 4147600; 718700, 4147400; 719000, 4147500; 719100, 4147700; 719300, 4147600; 719600, 4147900; 719700, 4148000; 719700, 4148100; 719800, 4148200; 720000, 4148200; 720600, 4148200; 720600, 4148300; 720700, 4148400; 720800, 4148400; 720900, 4148500; 722700, 4148500; 722700, 4148600; 722900, 4148600; 723200, 4148700; 723400, 4148700; 723200, 4148600; 723100, 4148500; 723000, 4148400; 723200, 4148200; 723400, 4148200; 723500, 4148300; 723600, 4148400; 723600, 4148500; 723800, 4148500; 723800, 4148400; 723900, 4148400; 723900, 4148500; 724000, 4148700; 724200, 4148500; 724200, 4148900; 724300, 4149000; 724300, 4149100; 724500, 4149000; 724500, 4149300; 724700, 4149400; 724900, 4149600; 725000, 4149700; 725000, 4150000; 724900, 4150100; 725000, 4150200; 725200, 4150200; 725300, 4150400; 725400, 4150500; 725400, 4150600; 725100, 4150900; 724700, 4150900; 724700, 4153400; 725000, 4153500; 725400, 4153900; 725600, 4154100; 725800, 4154200; 726000, 4154300; 726200, 4154000; 726300, 4153800; 726300, 4153700; 727800, 4153700; 727800, 4153400; 727900, 4153400; 727900, 4153500; 728400, 4153600; 728700, 4153700; 729000, 4153700; 729000, 4153600; 729100, 4153500; 729300, 4153400; 729400, 4153400; 729400, 4153300; 729300, 4153200; 729500, 4153100; 729800, 4153100; 729900, 4153200; 729900, 4154200; 730000, 4154200; 730100, 4154300; 730600, 4154300; 730700, 4154400; 731000, 4154600; 731200, 4154700; 731500, 4154700; 731800, 4154900; 732200, 4154900; 732600, 4154800; 733200, 4154500; 733400, 4154500; 733700, 4154300; 734700, 4154300; 734900, 4154600; 735100, 4154800; 735100, 4154900; 735500, 4155300; 735600, 4155300; 735800, 4155500; 736100, 4155900; 737100, 4155400; 737800, 4155000; 738200, 4154200; 738300, 4153300; 739000, 4152800; 739100, 4152200; 740200, 4151800; 740800, 4151500; 740800, 4150300; 741100, 4149900; 741700, 4149400; 742100, 4148500; 742100, 4147100; 743400, 4146100; 744000, 4145600; 744400, 4144600; 744300, 4143900; 743900, 4142700; 744000, 4142000; 744200, 4141700; 745500, 4140300; 745500, 4139600;

745500, 4139500; 745400, 4139400; returning to 745300, 4139300; excluding land bound by 727200, 4138700; 727400, 4138800; 727800, 4138800; 727900, 4139000; 727900, 4139300; 728300, 4139600; 728300, 4140700; 727800, 4140700; 727800, 4141100; 727400, 4141100; 727500, 4140800; 727400, 4140700; 727200, 4140700; 727300, 4140500; 727200, 4140000; 727000, 4139700; 726800, 4139600; 726600, 4139600; 726600, 4139500; returning to 727200, 4138700; and excluding land bound by 726200, 4138000; 726200, 4138400; 725800, 4138400; 725800, 4138500; 725700, 4138500; 725700, 4138200; 725800, 4138200; 725800, 4138000; returning to 726200, 4138000; and excluding land bound by 727000, 4137600; 727000, 4137800; 727200, 4137900; 727300, 4138000; 727300, 4138100; 726500, 4138000; 726500, 4137800; 726800, 4137800; 726800, 4137600; returning to 727000, 4137600; and excluding land bound by 726700, 4139700; 726800, 4139800; 726900, 4140000; 726900, 4140100; 726800, 4140200; 726600, 4140000; 726400, 4140000; returning to 726700, 4139700.

(43) Subunit 23A: Merced County, California. [Reserved]

(44) Subunit 23B: Merced County, California. [Reserved]

(45) Subunit 23C: Merced County, California. [Reserved]

(46) Subunit 23D: Merced County, California. [Reserved]

(47) Subunit 23E: Merced County, California. [Reserved]

(48) Subunit 23F: Merced County, California. [Reserved]

(49) Subunit 23G: Merced County, California. [Reserved]

(50) Subunit 24A: Madera County, California. [Reserved]

(51) Subunit 24B: Fresno County, California. From USGS 1:24,000 quadrangle map Friant, California, land bounded by the following UTM 11 NAD 83 coordinates (E, N): 263200, 4089800; 263100, 4089400; 261700, 4088800; 261700, 4089200; 261700, 4089400; 261600, 4089400; 261500, 4089400; 261300, 4089400; 261300, 4088200; 261100, 4088200; 261100, 4087400; 260400, 4087400; 260400, 4087500; 260100, 4087500; 260100, 4086900; 259800, 4086900; 259800, 4086700; 259300, 4086700; 259300, 4087600; 259600, 4087500; 260000, 4087500; 260100, 4087900; 260000, 4088100; 259700, 4088300; 258500, 4088300; 258000, 4088300; 258000, 4089100; 258200, 4089200; 258200, 4089100; 258500, 4089100; 258700, 4089200; 258700, 4089600; 258800, 4089600; 258900, 4089700; 258900, 4089800; 258600, 4089800; 258600, 4089900; 258200, 4089900; 258200, 4089700; 258100, 4089600; 257700, 4089600; 257700, 4089200; 257400, 4089200; 257400, 4089900; 257200, 4089900; 257200, 4089200; 256600, 4089200; 256600, 4089700; 256800, 4089700; 256800, 4090000; 256600, 4090000; 256600, 4090200; 256800, 4090800; 257000, 4091500; 257100, 4092700; 257100, 4092900; 257200, 4093100; 257300, 4094300; 257300, 4095400; 257400, 4095500; 258200, 4096300; 258900, 4096300; 258900, 4096700; 259100, 4097500; 259500, 4097700; 259600, 4097700; 259800, 4097600; 259800, 4097400; 260000, 4097200; 260200, 4097200; 260300, 4097000; 260600, 4096800; 260800, 4096600; 261500, 4096600; 261800, 4096500; 262200, 4096600; 262400, 4097000; 263100, 4097200; 263300, 4097200; 263600, 4097200; 264900, 4096500; 264700, 4096300; 264200, 4096300; 263800, 4096500; 263800, 4096000; 263600, 4095900; 263500, 4095800; 263500, 4095700; 263500, 4095600; 263900, 4095600; 263900, 4095300; 263600, 4095300; 263600, 4095100; 263800, 4095100; 263800, 4095000; 263300, 4094700; 262300, 4094200; 261800, 4093600; 260700, 4093400; 259900, 4092300; 259900,

4092100; 260200, 4092100; 261200, 4092400; 262200, 4091500; 262900, 4091800; 263400, 4091300; 263400, 4089900; returning to 263200, 4089800.

(52) Unit 25: Madera County, California. [Reserved]

(53) Subunit 26A: Kings and Tulare Counties, California. From USGS 1:24,000 quadrangle maps Burris Park, Monson, Remnoy, and Traver, California, land bounded by the following UTM 11 NAD 83 coordinates (E, N): 287000, 4034600; 287000, 4034300; 285000, 4034400; 285000, 4033800; 283100, 4033800; 283100, 4033100; 282600, 4033100; 282600, 4032600; 282200, 4032600; 282100, 4031800; 282100, 4031100; 280100, 4031100; 280100, 4030800; 279000, 4030600; 278700, 4030500; 278500, 4030100; 278100, 4030000; 276400, 4030100; 275700, 4029600; 275500, 4029200; 275300, 4028600; 275000, 4028300; 274700, 4028100; 274700, 4029800; 275600, 4029800; 276100, 4030400; 276400, 4030600; 276800, 4031400; 277500, 4031500; 278200, 4031900; 279500, 4031800; 279000, 4032900; 280500, 4032900; 281400, 4033300; 281800, 4033200; 283000, 4034300; 283800, 4034400; 284700, 4035200; 286800, 4035100; 287000, 4035100; 288500, 4035100; 288500, 4035600; 287700, 4035700; 287700, 4036700; 289300, 4036700; 289400, 4037400; 291100, 4037400; 291100, 4037200; 291800, 4037200; 291900, 4036800; 291900, 4035600; 292700, 4035800; 292700, 4036500; 293500, 4036400; 293500, 4036000; 294300, 4036000; 294300, 4035600; 293500, 4035600; 293400, 4034000; 292600, 4034000; 292600, 4035400; 291900, 4035400; 291700, 4035400; 291700, 4035600; 290500, 4035700; 290500, 4036100; 289800, 4036100; 289800, 4035700; 289400, 4035700; 289400, 4034500; 288500, 4034500; 288500, 4034200; 287700, 4034200; 287700, 4034500; returning to 287000, 4034600.

(54) Subunit 26B: Tulare County, California. From USGS 1:24,000 quadrangle map Monson, California, land bounded by the following UTM 11 NAD 83 coordinates (E, N): 297500, 4035500; 296700, 4035500; 296700, 4036300; 297500, 4036300; returning to 297500, 4035500.

(55) Subunit 27A: Tulare County, California. From USGS 1:24,000 quadrangle maps Alpaugh, Corcoran, and Taylor Weir, California, land bounded by the following UTM 11 NAD 83 coordinates (E, N): 279200, 3986500; 278900, 3986500; 278900, 3986700; 278600, 3987200; 278500, 3987400; 278300, 3987500; 277100, 3987600; 276900, 3988500; 276900, 3989000; 276500, 3989000; 276000, 3989900; 275900, 3990800; 276100, 3991000; 276100, 3991500; 276400, 3991500; 276400, 3992300; 276400, 3992500; 274400, 3992500; 274400, 3994100; 274800, 3994100; 274800, 3994700; 274900, 3994900; 275700, 3994900; 273700, 3997300; 276500, 3997300; 276700, 3997200; 278100, 3997200; 278100, 3995600; 279600, 3995600; 279600, 3994000; 278000, 3994000; 278000, 3992400; 278800, 3992400; 278800, 3991600; 279600, 3991600; 279600, 3990800; 279600, 3990000; 279600, 3989200; 278700, 3989200; 278700, 3987600; 279200, 3987600; returning to 279200, 3986500.

(56) Subunit 27B: Tulare County, California. From USGS 1:24,000 quadrangle maps Alpaugh, , Delano West, and Kern, California, land bounded by the following UTM 11 NAD 83 coordinates (E, N):

(i) Start at 288000, 3974500; 288000, 3974900; 288400, 3974900; 288400, 3975200; 288800, 3975200; 288800, 3976100; 285400, 3976100; 285100, 3976300; 285000, 3976800; 284900, 3977300; 284600, 3977500; 284600, 3977700; 283200, 3977700; 282900, 3977400; 284000, 3976400; 284000, 3976200; 283900, 3976200; 282000, 3976200; 281000, 3977900; 282200, 3977900; 282600, 3977600; 282800, 3977700; 282800, 3977900; 283100, 3978100; 283100, 3978200; 283200, 3978200; 283200, 3979400; 286500, 3979400; 286500, 3980200; 287300, 3980200; 287300, 3979300; 287700, 3979300; 287700, 3977800; 289000, 3977800; 288900, 3976200; 290500, 3976100; 290400, 3976000; 290400, 3975200; 291400, 3975200; 291400, 3975300; 291500, 3975300; 291400, 3974400; 291300, 3974400; 291200, 3973600; 292200, 3973600; 292200, 3973200; 292000, 3973200; 292000, 3972800; 292800, 3972800; 292800, 3972000; 292000, 3972000; 292000, 3971200; 289500, 3971200; 289500, 3972500; 290400, 3972500; 290400, 3974500; 288400, 3974500; returning to 288000, 3974500.

(ii) Start at 288000, 3974500; 288000, 3973700; 287200, 3973700; 287200, 3973000; 285800, 3973000; 285800, 3973600; 285500, 3973600; 285500, 3973700; 285000, 3973700; 285000, 3972800; 283900, 3972800; 283000, 3974500; returning to 288000, 3974500.

(57) Unit 28: Monerey and San Benito Counties, California. From USGS 1:24,000 quadrangle maps Hepsedam Peak, Hernandez Reservoir, Llanda, Lonoak Monarch Peak, Pinalito Canyon, Rock Spring Peak, San Benito, and Topo Valley, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 691600, 4008600; 690800, 4008600; 689500, 4009400; 689000, 4010100; 688900, 4010700; 687800, 4011000; 687100, 4011000; 685400, 4012100; 684900, 4013300; 683600, 4014100; 683400, 4014900; 682700, 4015200; 682500, 4016200; 683100, 4016600; 683100, 4017700; 684200, 4019500; 684200, 4020500; 683400, 4022200; 681700, 4023500; 681100, 4023600; 680700, 4024400; 680600, 4025500; 679800, 4025700; 679300, 4026900; 678700, 4027300; 678100, 4026600; 677400, 4026400; 676000, 4025600; 676000, 4025000; 676600, 4024500; 676800, 4023700; 675800, 4022500; 675600, 4021200; 675000, 4020200; 674200, 4019900; 672200, 4016700; 670800, 4015700; 670000, 4015700; 669500, 4016000; 669100, 4016700; 669600, 4017400; 669500, 4018600; 670100, 4019300; 670300, 4022200; 671000, 4023000; 672700, 4024100; 673500, 4024300; 674800, 4026200; 674500, 4026500; 674600, 4027000; 674100, 4027300; 673000, 4026800; 672400, 4027000; 671600, 4028700; 670700, 4028700; 669700, 4028900; 669700, 4030100; 669800, 4030700; 670300, 4032100; 670700, 4035100; 671300, 4037100; 669100, 4037700; 669200, 4038600; 668700, 4040300; 669800, 4042700; 671900, 4043300; 674100, 4043500; 676000, 4045600; 677300, 4046700; 683000, 4043300; 683800, 4042200; 683700, 4040600; 682300, 4039700; 681300, 4038600; 681600, 4037000; 681700, 4035800; 680800, 4034500; 678800, 4035200; 678000, 4036000; 677600, 4037100; 677200, 4037800; 676800, 4037900; 676100, 4038500; 675800, 4039000; 675000, 4038500; 675100, 4038000; 674700, 4037600; 673100, 4037000; 673800, 4036500; 674000, 4035500; 674700, 4035000; 675500, 4034700; 676000, 4033600; 676800, 4033300; 677600, 4032700; 678100, 4032100; 679000, 4031400; 679600, 4031200; 679900, 4031700; 679900, 4032700; 680500, 4033000; 681000, 4032500; 681500, 4031500; 682600, 4031200; 684400, 4028700; 685200, 4028700; 685500, 4028200; 687400, 4029500; 688000, 4030700; 688800, 4031100; 689700, 4031200; 691200, 4032600; 692000, 4032300; 692500, 4031600; 693200, 4031300; 693700, 4031300; 694300, 4030900; 693800, 4029500; 692600, 4028500; 693500, 4028500; 694300, 4027800; 694300, 4027200; 695100, 4026100; 696600, 4024900; 696600, 4023700; 697200, 4022600; 697900, 4022600; 698300, 4021500; 699200, 4020500; 699100, 4019400; 698500, 4019300; 698000, 4018700; 697100, 4018800; 695700, 4017900; 695400, 4016900; 695100, 4016500; 694900, 4015900; 694900, 4015000; 694400, 4013700; 693800, 4013100; 693600, 4012100; 692400, 4010900; 692000, 4009100; returning to 691600, 4008600.

(58) Subunit 29A: Monterey County, California. From USGS 1:24,000 quadrangle maps Jolon and Williams Hill, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 674900, 3975500; 674700, 3975500; 674600, 3976300; 673400, 3976300; 673400, 3976700; 673000, 3976700; 673000, 3977900; 670600, 3977800; 670600, 3977600; 668400, 3979200; 668300, 3979300; 667100, 3980200; 667700, 3980200; 667700, 3981800; 667300, 3981800; 667300, 3982100; 668000, 3982100; 668500, 3981900; 668700, 3981600; 668500, 3981100; 668700, 3980600; 669400, 3980100; 669800, 3980500; 670600, 3980700; 671400, 3980600; 671400, 3979500; 671900, 3979500; 672700, 3978600;

674700, 3978600; 675400, 3978200; 674600, 3976900; 674800, 3975700; 674900, 3975600; returning to 674900, 3975500.

(59) Subunit 29B: Monterey and San Luis Obispo Counties, California. From USGS 1:24,000 quadrangle maps Adelaida, Bradley Paso Robles, San Miguel, Valleton, and Wunpost, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N):

(i) Start at 705500, 3965500; 705400, 3965500; 705200, 3974500; 704000, 3974500; 703700, 3973800; 703700, 3973400; 703200, 3972500; 702900, 3972300; 702600, 3972000; 702500, 3971900; 701900, 3971200; 701600, 3971200; 701300, 3971000; 700800, 3971000; 700000, 3971000; 700000, 3970400; 699000, 3970400; 699000, 3970500; 699200, 3970700; 699800, 3972200; 700200, 3972800; 700400, 3973600; 700800, 3974300; 701300, 3974700; 701700, 3975500; 702900, 3976300; 703200, 3976900; 704200, 3977800; 704800, 3977900; 705400, 3977900; 706100, 3978300; 706700, 3978700; 706700, 3978300; 706200, 3976700; 706100, 3975500; 706300, 3975100; 706500, 3974400; 706400, 3971900; 706600, 3970800; 707000, 3970100; 707000, 3969400; 706800, 3969200; 706800, 3968200; 706600, 3967400; returning to 705500, 3965500.

(ii) Start at 707500, 3961300; 706900, 3961300; 706900, 3961400; 706500, 3961700; 705700, 3962200; 704900, 3963400; 705500, 3964000; 705400, 3964400; 705500, 3964400; 705800, 3963600; 705700, 3963000; 706000, 3962800; 706800, 3963500; 707600, 3963500; 707500, 3962800; 707900, 3962500; 708100, 3962000; returning to 707500, 3961300.

(iii) Start at 694300, 3961200; 694200, 3961400; 694800, 3961800; 694900, 3962400; 694700, 3962800; 694800, 3963500; 695400, 3963500; 695700, 3963400; 695800, 3963100; 695500, 3963100; 695500, 3961400; 694300, 3961400; returning to 694300, 3961200. 705700, 3957100; 705300, 3957100; 705300, 3961100; 706200, 3961200; 706200, 3961100; 706000, 3961000; 705600, 3959800; 705900, 3959400; 706000, 3958800; 706600, 3958600; 706900, 3958000; 706900, 3957600; 706400, 3957200; returning to 705700, 3957100.

(iv) Start at 703200, 3952200; 703000, 3952200; 703000, 3953500; 702200, 3953500; 702100, 3954300; 702900, 3955100; 705400, 3955100; 705300, 3956700; 705400, 3956700; 705800, 3956500; 706300, 3956000; 707900, 3956100; 707900, 3955400; 708100, 3955100; 707600, 3954000; 707300, 3953600; 705700, 3952600; 705000, 3952800; returning to 703200, 3952200.

(60) Subunit 29C: Monterey and San Luis Obispo Counties, California. From USGS 1:24,000 quadrangle maps Cholame Hills, Creston, Estrella, Pasa Robles, and Ranchito Canyon, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 717700, 3941700; 717400, 3941700; 717000, 3941900; 717200, 3942500; 715100, 3944900; 715300, 3945200; 714500, 3945900; 714800, 3946200; 714600, 3946400; 714000, 3946400; 713200, 3947000; 713200, 3947200; 713600, 3947800; 713500, 3948400; 713200, 3948700; 712800, 3947900; 712600, 3947900; 712500, 3948000; 712500, 3948800; 711600, 3949100; 711300, 3949300; 711200, 3949800; 710600, 3949900; 710500, 3950000; 710500, 3950200; 710900, 3950400; 710900, 3950600; 710600, 3950700; 709400, 3950500; 709300, 3952100; 709800, 3952800; 709800, 3954800; 709500, 3955200; 709500, 3955600; 710200, 3955600; 710400, 3955500; 711000, 3955300; 711500, 3954600; 711600, 3953600; 713900, 3953600; 714200, 3954000; 714500, 3953800; 715000, 3953700; 715300, 3953500; 715500, 3953400; 715700, 3953400; 716000, 3953700; 716500, 3953700; 716800, 3953600; 717600, 3953700; 717900, 3954200; 718500, 3954600; 718900, 3954800; 719300, 3954900; 720400, 3955600; 721400, 3956700; 722200, 3958400; 722500, 3960400; 723300, 3962100; 724200, 3962500; 724400, 3963300; 725100, 3964000; 725100, 3963300; 725000, 3962100; 725600, 3961700; 726100, 3961700; 726100, 3961300; 725200, 3960400; 725100, 3959200; 724700, 3958300; 724300, 3956700; 724700, 3956500; 725200, 3955000; 724100, 3953600; 723800, 3952700; 723400, 3952000; 723100, 3950600; 723500, 3949700; 723500, 3949000; 724100, 3948500; 723500, 3948400; 722300, 3948900; 719200, 3948900; 719200, 3949700; 718300, 3949700; 718300, 3948900; 718900, 3948900; 719000, 3948700; 719200, 3948700; 719200, 3948100; 720000, 3948100; 720000, 3946500; 720200, 3946400; 720800, 3945700; 721000, 3945200; 721100, 3944900; 721100, 3943400; 720100, 3943400; 718700, 3942200; returning to 717700, 3941700.

(61) Unit 30: San Luis Obispo County, California. From USGS 1:24,000 quadrangle maps Chimneas Ranch, McKittrick Summit, Painted Rock, and Simmler, California, land bounded by the following UTM 11 NAD 83 coordinates (E, N): 247900, 3894600; 245800, 3895500; 243500, 3896000; 242700, 3896400; 242200, 3897600; 240100, 3898900; 239500, 3899300; 239300, 3899600; 238300, 3900400; 237900, 3900300; 236100, 3901000; 235800, 3901300; 235800, 3902300; 235500, 3903500; 234800, 3904400; 233000, 3904900; 231800, 3905800; 231600, 3907000; 231900, 3908800; 231800, 3909400; 229400, 3910200; 227200, 3911200; 227300, 3913400; 228100, 3913800; 229000, 3913900; 231900, 3913200; 233300, 3913200; 234300, 3912900; 235100, 3912100; 235300, 3911200; 233900, 3910100; 233700, 3909700; 235300, 3909000; 235700, 3908500; 237200, 3907500; 237700, 3906300; 238200, 3905800; 239100, 3905200; 239100, 3904900; 242800, 3902600; 244400, 3901300; 244400, 3901000; 244700, 3900700; 244800, 3899100; 245400, 3898800; 247200, 3896600; 248200, 3895000; returning to 247900, 3894600.

(62) Unit 31: Santa Barbara County, California. From USGS 1:24,000 quadrangle maps Figueroa Mtn., Lake Cachuma, Los Olivos, and Santa Ynez, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 775000, 3831900; 774200, 3831800; 773600, 3831900; 772500, 3831800; 772100, 3831400; 771400, 3831500; 770400, 3831000; 769800, 3830900; 769300, 3831100; 769100, 3831300; 768500, 3832600; 768500, 3833300; 768700, 3833700; 769900, 3834700; 770200, 3834700; 771900, 3835200; 772300, 3835300; 772800, 3835000; 773100, 3835000; 773100, 3835300; 773700, 3835300; 773700, 3835700; 773600, 3836100; 773200, 3836900; 773800, 3837100; 774300, 3836500; 774900, 3836300; thence east to UTM zone 11, land bounded by the following UTM 11 NAD 83 coordinates (E, N): 224900, 3836300; 225100, 3836200; 225300, 3836400; 225600, 3837000; 226600, 3838500; 228200, 3839300; 229800, 3839000; 232200, 3840500; 232400, 3841700; 232300, 3842700; 231600, 3843100; 230300, 3844900; 230000, 3846200; 230800, 3846400; 231200, 3846200; 231700, 3846200; 232000, 3846500; 232800, 3847000; 233800, 3847000; 234500, 3846400; 234700, 3845600; 235200, 3845600; 235900, 3844500; 236400, 3844200; 236400, 3843800; 235900, 3843600; 235700, 3843300; 235500, 3843000; 235200, 3842900; 235100, 3842800; 235100, 3842000; 235300, 3841300; 235200, 3840700; 234700, 3840000; 234900, 3839700; 234600, 3839500; 234600, 3839300; 234300, 3839300; 233800, 3839300; 233100, 3838200; 232900, 3838000; 232300, 3837900; 232100, 3838200; 231800, 3838400; 231400, 3838500; 230700, 3837700; 230800, 3837200; 230300, 3836600; 230100, 3836100; 230000, 3835700; 229100, 3835300; 228900, 3834900; 228800, 3833800; 228000, 3833300; 227400, 3833200; 227000, 3832800; 226700, 3832400; 226100, 3832400; 225800, 3832500; 225200, 3832000; 225000, 3831900; 224800, 3831900 thence west to UTM zone 10 to the point of beginning at UTM 10 NAD 83 coordinates 775000, 3831900.

(63) Unit 32: Ventura County, California. From USGS 1:24,000 quadrangle maps Alamo Mountain, Lion Canyon, Lockwood Valley, San Guillermo, and Topatopa Mountains, California, land bounded by the following UTM 11 NAD 83 coordinates (E, N): 310100, 3830500; 309400, 3831000; 308400, 3830900; 307200, 3830600; 306000, 3831200; 304700, 3831300; 303400, 3832100; 302100, 3832600; 301600, 3833600; 300400, 3833600; 299200, 3834000; 298200, 3834400; 297700, 3835300; 297900,

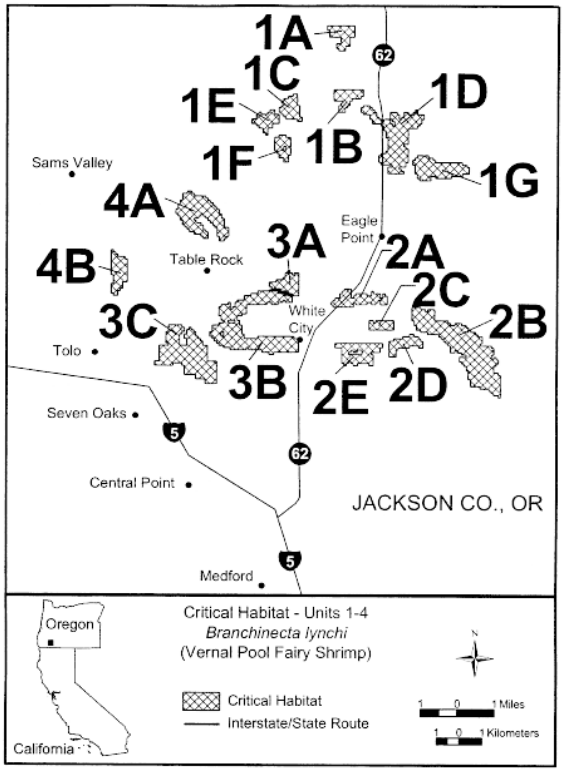
3837300; 299500, 3837500; 301200, 3838400; 301500, 3839300; 303400, 3841000; 303800, 3842700; 304900, 3843600; 305800, 3843600; 307700, 3843400; 309500, 3843400; 310500, 3844200; 311900, 3844600; 313400, 3845400; 314500, 3844100; 315200, 3843800; 315700, 3842400; 316500, 3841100; 317200, 3838100; 317200, 3837000; 316500, 3833900; 315700, 3833300; 315200, 3834100; 314000, 3834100; 313100, 3832200; 311500, 3830800; returning to 310100, 3830500.

(64) Subunit 33A: Riverside County, California. [Reserved]

(65) Subunit 33B: Riverside County, California. [Reserved]

(66) Subunit 33C: Riverside County, California. [Reserved]

(67) Maps follow of critical habitat units 1 through 4, 5, 6 through 9, 11 and 12, 13 and 14, 15 through 17, 18, 19, 20, 21 through 23, 24 and 25, 26, 27, 28, 29, 30, 31, and 32 (respectively) for vernal pool fairy shrimp.



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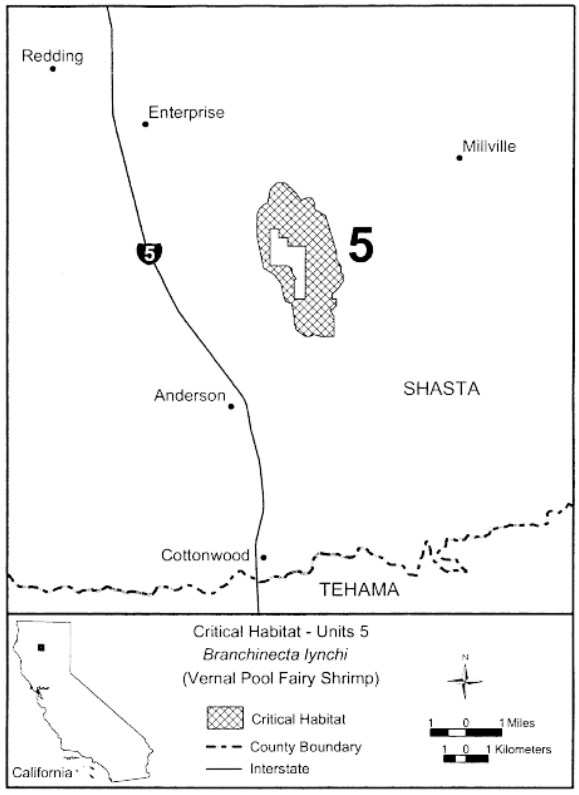

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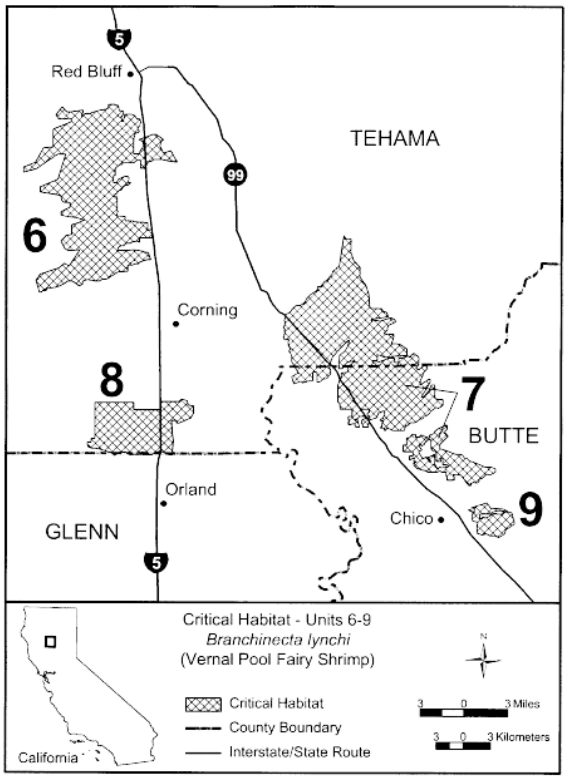

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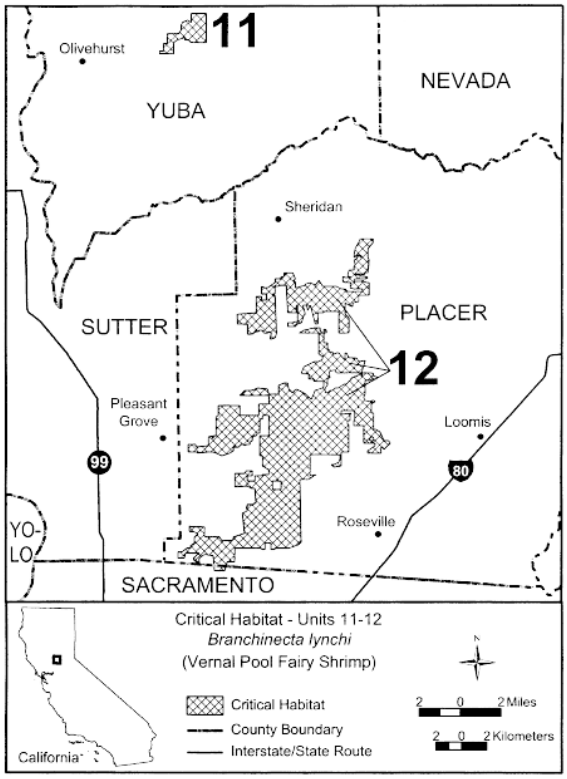

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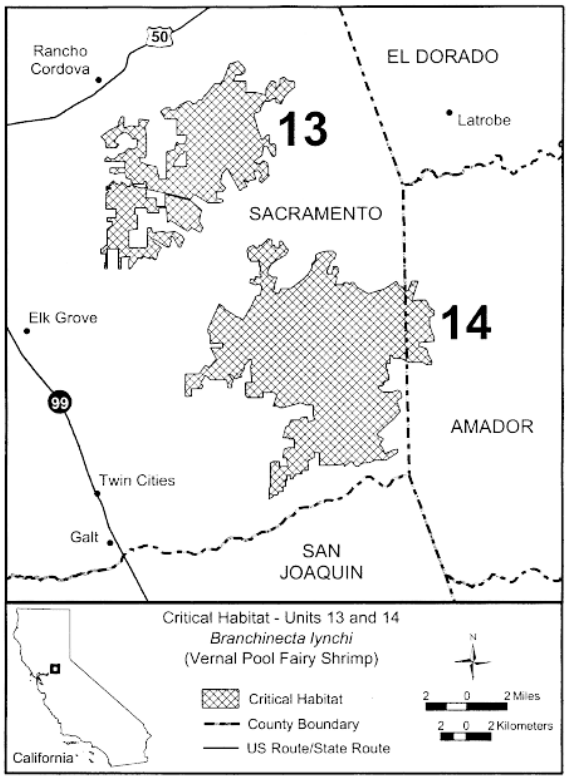

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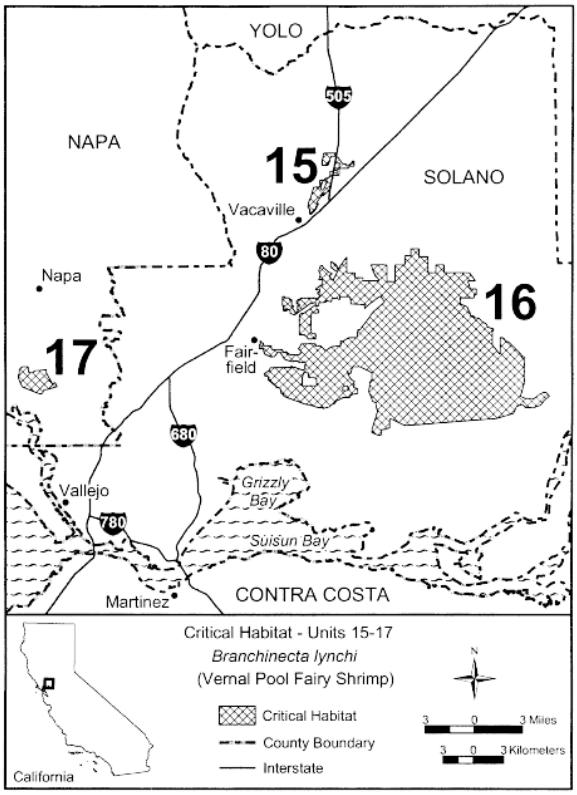

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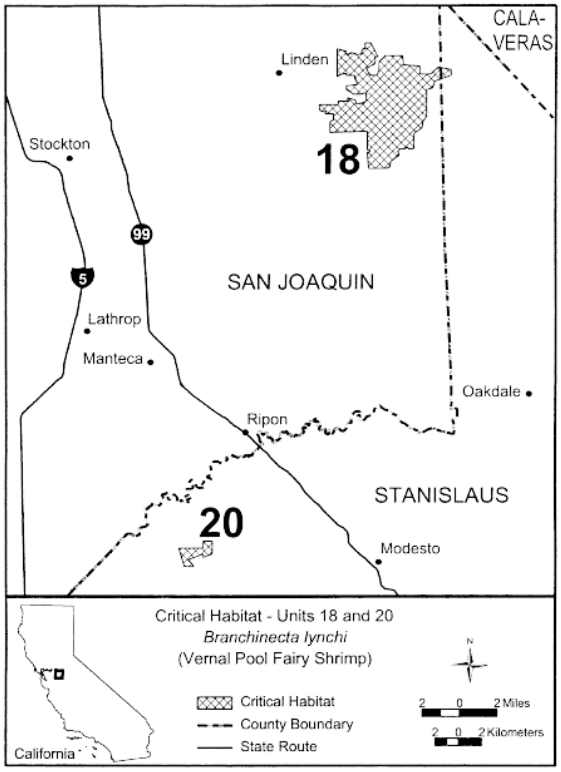

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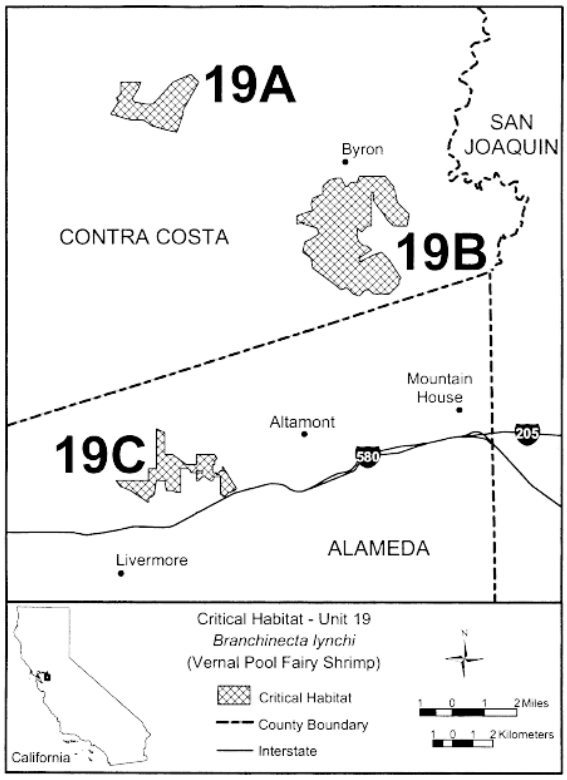

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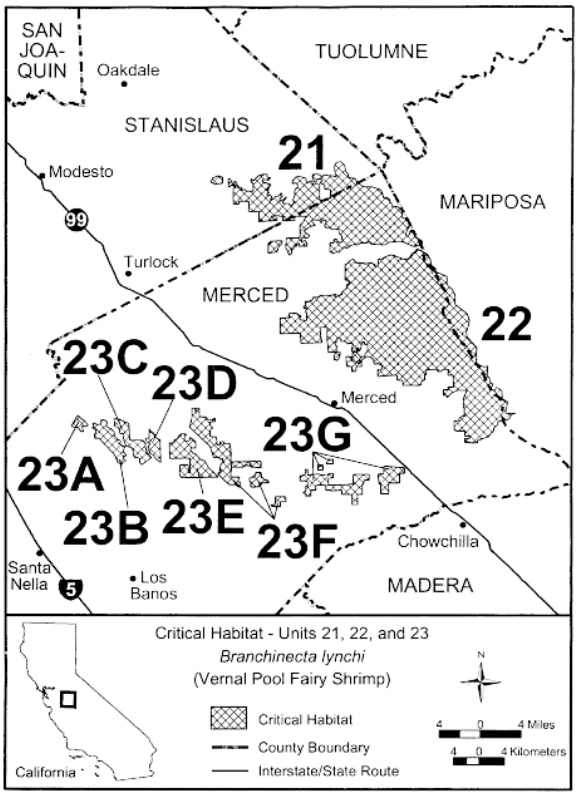

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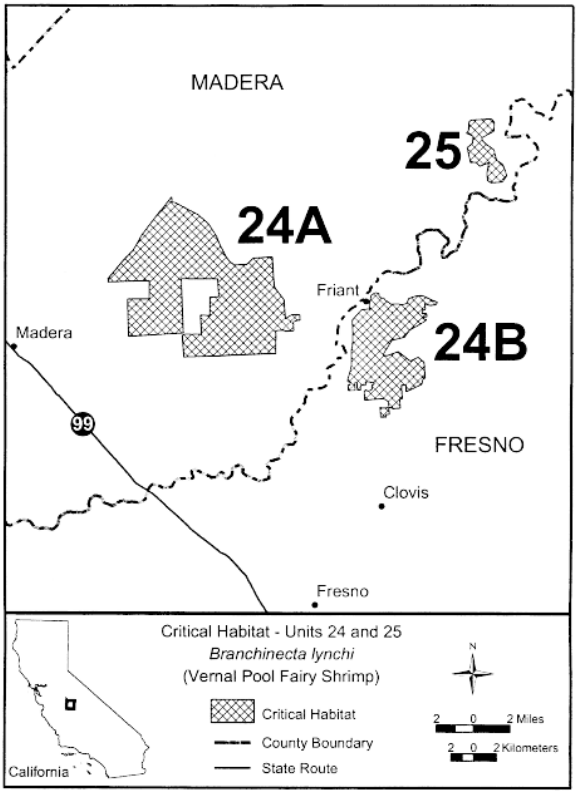

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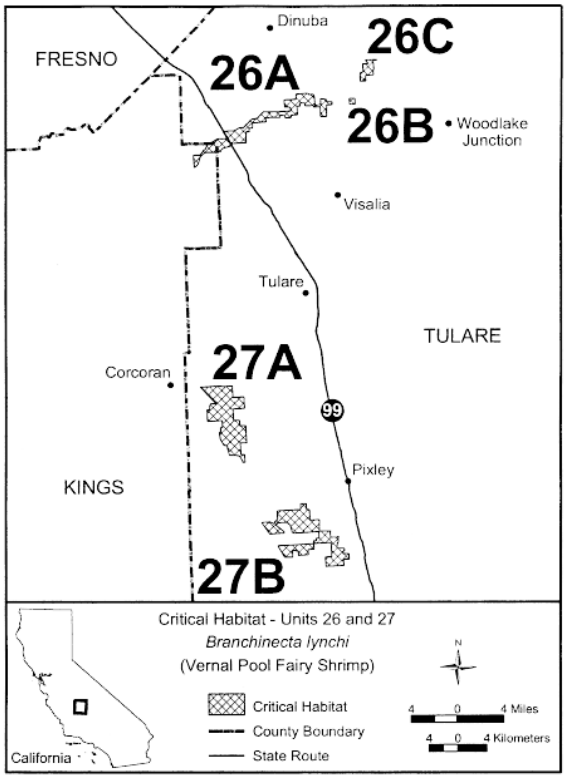

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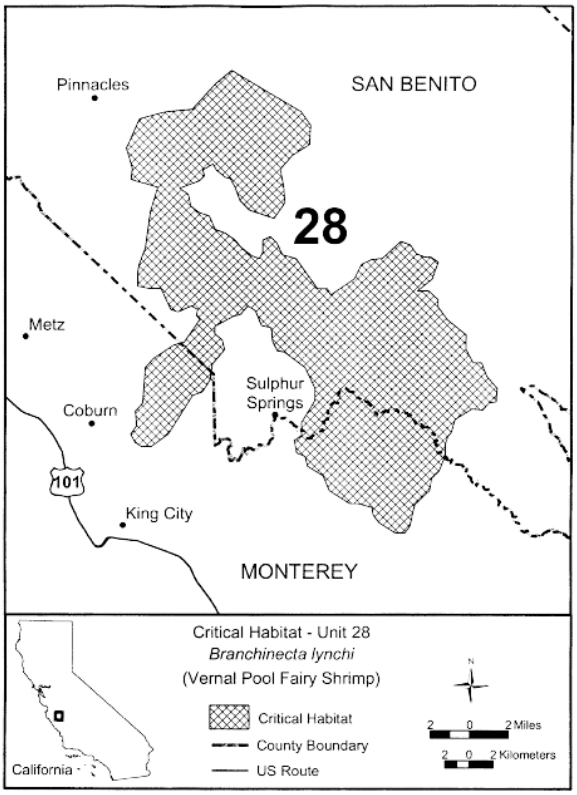

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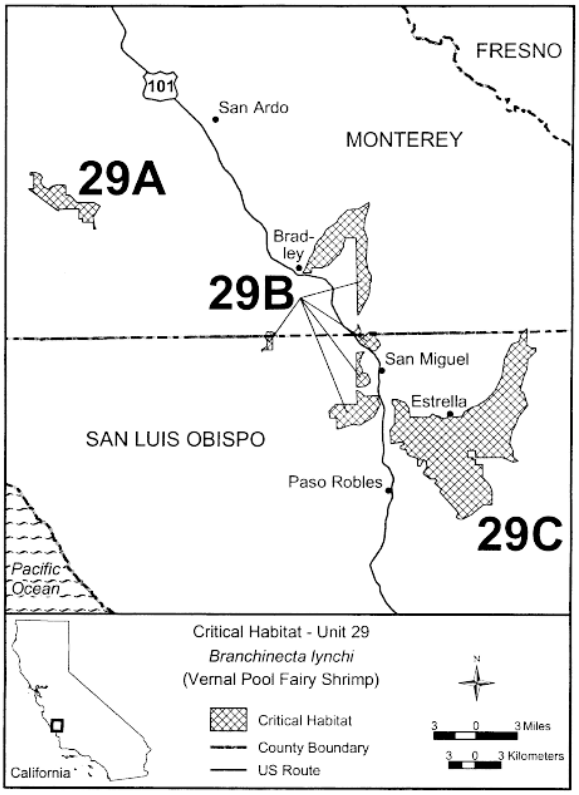

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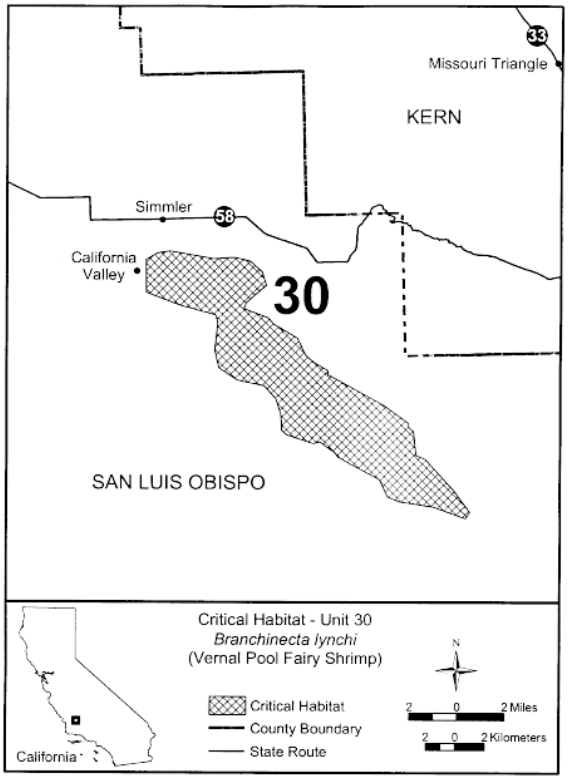

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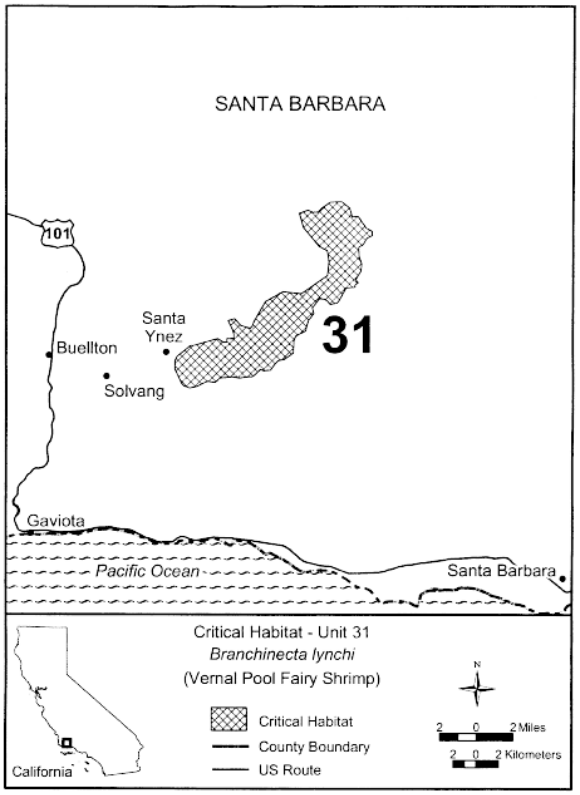

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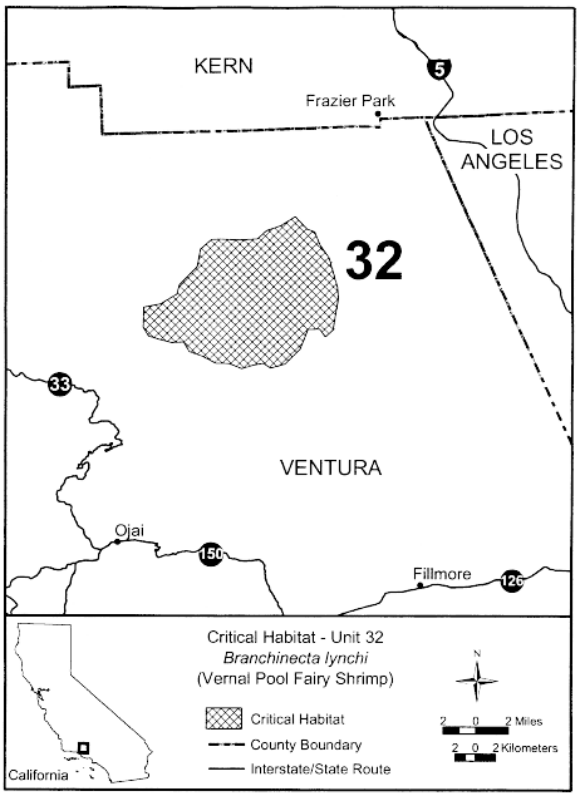

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Kentucky Cave Shrimp (Palaemonias ganteri)

Kentucky, Edmonson County: The Roaring River passage of the Flint-Mammoth Cave System in Mammoth Cave National Park.

Note:

Map follows:

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Known constituent elements include a stream in a base level cave passage with abundant organic material and sediments consisting of coarse silt and very coarse to very fine sand.

Vernal Pool Tadpole Shrimp (Lepidurus packardi)

(1) Critical habitat units are depicted for Shasta, Tehama, Glenn, Colusa, Alameda, Amador, Stanislaus, Mariposa, Fresno, Tulare and Kings Counties, California on the map below.

(2) The primary constituent elements of critical habitat for vernal pool tadpole shrimp are the habitat components that provide:

(i) Vernal pools, swales, and other ephemeral wetlands and depressions of appropriate sizes and depths that typically become inundated during winter rains and hold water for sufficient lengths of time necessary for vernal pool tadpole shrimp incubation, reproduction, dispersal, feeding, and sheltering, but which are dry during the summer and do not necessarily fill with water every year, including but not limited to, vernal pools on Redding and Corning soils on high terrace landforms, and

(ii) The geographic, topographic, and edaphic features that support aggregations or systems of hydrologically interconnected pools, swales, and other ephemeral wetlands and depressions within a matrix of surrounding uplands that together form hydrologically and ecologically functional units called vernal pool complexes. These features contribute to the filling and drying of the vernal pool, and maintain suitable periods of pool inundation, water quality, and soil moisture for vernal pool crustacean hatching, growth and reproduction, and dispersal, but not necessarily every year.

(3) Existing manmade features and structures, such as buildings, roads, railroads, airports, runways, other paved areas, lawns, and other urban landscaped areas do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Critical habitat does not include the following lands although they may fall within the legal descriptions below:

(i) Lands within the following California counties: Butte, Madera, Merced, Sacramento, and Solano;

(ii) Federally-owned lands within the boundaries of the Kern, Sacramento, San Francisco Bay, and San Luis National Wildlife Refuges and National Wildlife Refuge Complexes, and the Coleman National Fish Hatchery;

(iii) State-owned lands within the boundaries of the Allensworth, Boggs Lake, Butte Creek Canyon, Calhoun Cut, Carrizo Plains, Dales Lake, Fagan Marsh, Phoenix Field, San Joaquin River, Stone Corral, and Thomes Creek Ecological Reserves;

(iv) State-owned lands within the boundaries of the Battle Creek, Big Sandy, Grizzly Island, Hill Slough, North Grasslands, and Oroville Wildlife Areas.

(5) Unit 1: Shasta County, California. From USGS 1:24,000 quadrangle maps Cottonwood, Enterprise and Palo Cedro, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 564200, 4480900; 563600, 4480900; 563300, 4481000; 563100, 4480900; 562900, 4480900; 562500, 4481200; 562400, 4481500; 562400, 4481700; 562300, 4482400; 562000, 4482500; 561900, 4482800; 561800, 4483300; 561500, 4483700; 561000, 4484000; 560700, 4485400; 560700, 4486500; 560800, 4486700; 561000, 4486900; 561200, 4487000; 561300, 4487600; 561600, 4487900; 562000, 4487900; 562500, 4487400; 562700, 4487100; 562900, 4487200; 563200, 4487200; 563300, 4487000; 563300, 4486700; 563800, 4486400; 564300, 4484700; 564300, 4484400; 564500, 4484100; 564500, 4483800; 564600, 4483700; 564600, 4483400; 564400, 4483100; 564100, 4482800; 564100, 4482600; 564300, 4482600; 564300, 4482400; 564300, 4482300; 564200, 4482200; 564100, 4482100; 564000, 4482100; 564200, 4481800; returning to 564200, 4480900; and excluding land bounded by 562900, 4482600; 562400, 4482600; 562400, 4483500; 562400, 4483500; 562500, 4483500; 562500, 4483500; 562304, 4483794; 562300, 4483800; 562300, 4483803; 562300, 4484000; 562300, 4484010; 562100, 4484100; 561300, 4484100; 561300, 4485800; 561700, 4485800; 561700, 4485779; 561700, 4485400; 561700, 4485400; 562100, 4485400; 562100, 4485372; 562100, 4485000; 562900, 4485000; returning to 562900, 4482600.

(6) Unit 2: Shasta and Tehama Counties, California. From USGS 1:24,000 quadrangle maps Balls Ferry, Bend, Dales, Red Bluff East, Shingletown and Tuscan Buttes NE, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 570200, 4454800; 570200, 4455000; 570600, 4455900; 570000, 4456100; 569500, 4456300; 569300, 4456500; 568900, 4456500; 568600, 4456500; 568000, 4456800; 567900, 4457100; 567900, 4458000; 568400, 4458800; 569100, 4459800; 569600, 4460500; 569500, 4460800; 569000, 4460600; 568300, 4460700; 567500, 4460700; 566800, 4460000; 566400, 4460000; 565900, 4461100; 565800, 4461400; 565800, 4461700; 566000, 4462000; 565800, 4462300; 565900, 4462400; 565800, 4462500; 565900, 4462600; 565800, 4462800; 565900, 4462900; 565900, 4463000; 566000, 4463100; 566300, 4463100; 566500, 4463300; 566500, 4463600; 566700, 4463700; 566800, 4463700; 566900, 4463600; 567100, 4463500; 567200, 4463600; 567600, 4463400; 568300, 4463200; 569800, 4463200; 570600, 4463900; 570800, 4464300; 572000, 4465200; 572000, 4466300; 572100, 4466600; 572800, 4467300; 573500, 4468600; 573400, 4469000; 573100, 4469400; 572900, 4469600; 572600, 4469600; 571800, 4468800; 571400, 4468100; 571000, 4467900; 571000, 4468700; 571200, 4468700; 571100, 4469200; 571200, 4469500; 571200, 4470500; 570500, 4470900; 570300, 4471000; 570100, 4471000; 569800, 4470900; 569600, 4471000; 569400, 4471400; 569400, 4471800; 569700, 4471900; 569600, 4472000; 569900, 4472200; 570200, 4472100; 570500, 4472000; 570800, 4472200; 570900, 4472100; 571000, 4472100; 571300, 4472200; 571700, 4472200; 571900, 4472200; 572200, 4472300; 572500, 4472100; 573900, 4472100; 574300, 4473200; 575100, 4473200; 575600, 4473500; 576000, 4473900; 576600, 4473900; 577300, 4473900; 577700, 4474200; 578600,

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(7) Unit 3: Butte and Tehama Counties, California. From USGS 1:24,000 quadrangle maps Acorn Hollow, Campbell Mound, Foster Island, Nord, Richardson Springs, Richardson Springs NW and Vina, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N):

(i) Start at 592400, 4416700; 592500, 4416600; 592500, 4416000; 592000, 4416000; 592000, 4415800; 592500, 4415800; 593800, 4416300; 594100, 4416300; 594400, 4416300; 594400, 4415800; 594900, 4415800; 594900, 4416300; 595500, 4416300; 595500, 4416400; 595900, 4416500; 596000, 4416500; 596100, 4416400; 596200, 4416500; 596300, 4416600; 596400, 4416700; 596500, 4416700; 596500, 4416800; 596600, 4416800; 597100, 4416400; 597100, 4415600; 596800, 4415200; 597100, 4415000; 597800, 4415500; 598100, 4415200; 597600, 4414600; 597600, 4414400; 597300, 4413800; 597300, 4413300; 598200, 4413900; 598400, 4413900; 598400, 4413600; 597400, 4411900; 597600, 4411900; 598300, 4412700; 598500, 4413300; 598900, 4413300; 598900, 4411800; 599400, 4411700; 599800, 4411700; 599800, 4411000; 599300, 4410700; 599100, 4410800; 599000, 4410800; 598800, 4410600; 598500, 4410400; 598300, 4410100; 598100, 4410000; 598000, 4409900; 597700, 4409800; 597600, 4409600; 597500, 4409500; 597300, 4409500; 597100, 4409400; 596900, 4409200; 596800, 4409200; 596700, 4409100; 596200, 4409100; 596000, 4408900; 595900, 4408800; 595700, 4408800; 595500, 4408200; 594300, 4408200; 594100, 4408300; 594000, 4408400; 593600, 4408500; 593400, 4408200; 593300, 4408200; 593300, 4408500; 592900, 4408500; 592900, 4408600; 593000, 4408600; 593100, 4409200; 593200, 4409200; 593200, 4409300; 592900, 4409300; 592900, 4409500; 593100, 4409600; 593100, 4409500; 593200, 4409500; 593200, 4409800; 593300, 4409900; 593300, 4410400; 593100, 4410400; 592900, 4410200; 592600, 4410200; 592600, 4410000; 592500, 4409900; 592500, 4409700; 591700, 4409400; 591500, 4409400; 591700, 4409100; 591700, 4409000; 591500, 4409000; 591500, 4408600; 590900, 4408600; 590900, 4408900; 590700, 4409000; 590800, 4409400; 591000, 4409500; 591200, 4409500; 591100, 4409800; 590500, 4409800; 590300, 4409600; 590300, 4409500; 590100, 4409500; 590000, 4409400; 590300, 4409400; 590400, 4409000; 590500, 4408600; 590100, 4408600; 590100, 4408800; 589900, 4409000; 589500, 4408900; 589300, 4408900; 589300, 4409200; 589400, 4409200; 589400, 4409400; 589300, 4409400; 589300, 4409800; 589700, 4409800; 589700, 4410600; 588400, 4410600; 588300, 4411300; 588100, 4411400; 588100, 4412000; 588100, 4413300; 588200, 4413500; 588300, 4413900; 588500, 4414000; 588500, 4414600; 589200, 4414700; 589200, 4415000; 589200, 4415300; 589400, 4415500; 589700, 4415600; 589700, 4415800; 589900, 4415800; 590000, 4415900; 590000, 4416000; 589900, 4416000; 589400, 4415900; 589100, 4415800; 589000, 4415700; 588800, 4415500; 588700, 4415400; 588600, 4415100; 588200, 4415100; 588200, 4416000; 588300, 4416200; 588300, 4416600; 588800, 4417000; 589100, 4417400; 589200, 4417600; 589200, 4417700; 589300, 4417900; 589300, 4418100; 589400, 4418200; 589300, 4418300; 590700, 4419800; 588000, 4417000; 587500, 4416400; 587200, 4415500; 587200, 4415100; 587300, 4415000; 587300, 4414500; 587200, 4414400; 587100, 4414300; 586900, 4414000; 586400, 4413900; 586200, 4413700; 586000, 4413600; 585800, 4413600; 585800, 4414700; 585300, 4414700; 585300, 4413800; 585200, 4413700; 584800, 4413700; 584600, 4413600; 584400, 4413600; 584200, 4413500; 584000, 4413700; 583200, 4413400; 583000, 4414200; 583700, 4414600; 583500, 4415000; 583000, 4415900; 583000, 4416400; 582900, 4416700; 582800, 4416900; 582700, 4417000; 582700, 4417200; 582900, 4417300; 582800, 4417400; 582700, 4417500; 582700, 4417600; 582600, 4417700; 582600, 4418000; 582600, 4418100; 582600, 4418200; 582700, 4418300; 582500, 4418400; 582400, 4418300; 582200, 4418300; 582100, 4418400; 582100, 4418500; 582000, 4418600; 582100, 4418700; 582100, 4418900; 582200, 4419100; 582100, 4419300; 582200, 4419500; 582100, 4419600; 582000, 4419700; 582100, 4419800; 582100, 4419900; 582200, 4420000; 582200, 4420300; 582100, 4420500; 582200, 4420600; 582200, 4420800; 582300, 4421100; 582900, 4421500; 582900, 4421600; 583300, 4422000; 583400, 4422100; 583900, 4422100; 584100, 4422300; 584200, 4422300; 584300, 4422400; 584400, 4422500; 584600, 4422900; 585100, 4423400; 585600, 4423700; 585800, 4423900; 585800, 4424200; 586100, 4424200; 586600, 4424800; 586800, 4424900; 587300, 4425500; 587400, 4425600; 587500, 4425800; 587500, 4425900; 587600, 4426000; 587700, 4426100; 587800, 4426100; 587900, 4426200; 587900, 4426300; 588200, 4426500; 588700, 4429900; 588900, 4429500; 589500, 4429500; 589500, 4428600; 589500, 4428000; 589800, 4427100; 590500, 4426400; 590500, 4425300; 591200, 4424400; 591500, 4423300; 591600, 4422100; 591700, 4421900; 591900, 4421800; 593000, 4421800; 593100, 4421500; 593500, 4421400; 593700, 4420900; 591800, 4420600; 591800, 4420400; 592300, 4420500; 592800, 4420400; 593100, 4420500; 594000, 4420800; 594400, 4420600; 594500, 4420300; 593800, 4420000; 593600, 4419700; 593600, 4419400; 593200, 4419100; 593600, 4418900; 594300, 4419000; 594300, 4418800; 594300, 4418700; 594200, 4418300; 594100, 4418000; 594100, 4417900; 594700, 4417900; 595100, 4417800; 595800, 4417300; 595800, 4416600; 595100, 4416500; 594400, 4416500; 594000, 4416400; 593300, 4416400; 592800, 4416600; returning to 592400, 4416700; and excluding land bounded by 591500, 4409600; 591400, 4409600; 590700, 4410600; 591600, 4410600; 591600, 4410200; 591400, 4410200; 591400, 4409900; 591600, 4409900; returning to 591500, 4409600.

(ii) Start at 602900, 4402100; 602700, 4402100; 602300, 4402600; 602300, 4402700; 601800, 4403300; 601200, 4403300; 601000, 4403400; 601000, 4403200; 601100, 4403100; 601100, 4402700; 600300, 4402700; 600300, 4403000; 600200, 4403200; 600200, 4403600; 599700, 4403600; 599600, 4403700; 599400, 4403700; 599200, 4403600; 598100, 4403600; 597900, 4403800; 597800, 4403800; 597000, 4404000; 596600, 4404400; 596600, 4404700; 596900, 4404700; 596900, 4404800; 596600, 4404800; 596600, 4405100; 596700, 4405200; 596500, 4405200; 596200, 4405000; 596100, 4405000; 596100, 4405400; 596500, 4405400; 596500, 4405900; 595600, 4405900; 595400, 4405900; 595400, 4406600; 595800, 4406600; 595800, 4407400; 596100, 4407400; 596300, 4407700; 596400, 4407800; 596800, 4407800; 596800, 4407500; 597300, 4407500; 597300, 4407700; 597600, 4407700; 597900, 4407500; 598100, 4407500; 598100, 4407100; 597700, 4406800; 597800, 4406700; 597500, 4406500; 597300, 4406700; 597100, 4406600; 597500, 4406100; 597100, 4405900; 597600, 4405100; 598000, 4405300; 598400, 4404700; 598500, 4404800; 598200, 4405300; 598400, 4405300; 598500, 4405400; 598600, 4405500; 598700, 4405400; 598800, 4405600; 598900, 4405600; 598900, 4404800; 598900, 4404400; 599000, 4404400; 599200, 4404000; 599300, 4404000; 599500, 4404200; 599700, 4404100; 600100, 4404200; 600400, 4404200; 600400, 4404400; 599800, 4404400; 599800, 4405200; 599600, 4405200; 599500, 4405100; 599600, 4405000; 599600, 4404800; 599100, 4404800; 599100, 4405700; 599000, 4405800; 598900, 4406100; 598700, 4406000; 598500, 4406300; 598500, 4407200; 598300, 4407200; 598300, 4407500; 598300, 4407700; 598800, 4407900; 598900, 4408100; 599200, 4408400; 600200, 4408900; 600300, 4408800; 600300, 4408400; 600000, 4408100; 600400, 4407600; 599500, 4406700; 599500, 4406200; 600300, 4406000; 601200, 4405600; 601800, 4405600; 602000, 4405500; 602200, 4405200; 602500, 4405200; 602700, 4404900; 603300, 4404700; 604500, 4404200; 605200, 4404200; 605600, 4404000; 605600, 4403600; 605100, 4403300; 604700, 4403400; 604500, 4403300; 604475, 4403175; 604400, 4403100; 604300, 4403100; 604200, 4403000; 604100, 4402900; 604000, 4402900; 603800, 4402800; 603800, 4402600; 603600, 4402400; 603400, 4402400; 603200, 4402500;

603100, 4402400; 602900, 4402400; returning to 602900, 4402100.

(8) Unit 4: Butte County, California. [Reserved]

(9) Unit 5: Colusa and Glen Counties, California. [Reserved]

(10) Unit 6: Colusa County, California. From USGS 1:24,000 quadrangle maps Colusa and Meridian, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 589200, 4335900; 587900, 4335900; 587900, 4336000; 587400, 4336600; 587300, 4336800; 586900, 4337800; 586700, 4337800; 586700, 4337700; 586400, 4337700; 586400, 4336800; 586300, 4336600; 586000, 4336600; 585800, 4336900; 585800, 4337200; 585900, 4337200; 585900, 4338200; 586100, 4338200; 586100, 4338400; 586800, 4338900; 587000, 4338500; 587000, 4338400; 586800, 4338200; 587000, 4338100; 587500, 4337600; 587700, 4337800; 588800, 4336700; 588900, 4336700; 589100, 4336500; 589100, 4336900; 589200, 4336900; returning to 589200, 4335900

(11) Unit 7: Yuba County, California. From USGS 1:24,000 quadrangle maps Browns Valley and Wheatland, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 632400, 4329000; 631300, 4329000; 631300, 4329200; 631600, 4329200; 631600, 4329800; 631900, 4329800; 631900, 4330600; 632800, 4330600; 633000, 4330900; 633000, 4331300; 633100, 4331500; 633500, 4331700; 633800, 4331500; 633800, 4332200; 635000, 4332200; 635000, 4329900; 633800, 4329900; 633600, 4330100; 633300, 4330100; 633300, 4330300; 632700, 4330100; 632400, 4329900; returning to 632400, 4329000.

(12) Unit 8: Sacramento, California. [Reserved]

(13) Unit 9: Amador and Sacramento Counties, California. From USGS 1:24,000 quadrangle maps Carbondale, Clay, Goose Creek and Sloughhouse, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 668900, 4255600; 669300, 4255400; 670600, 4255800; 671500, 4256400; 671700, 4256000; 671900, 4256000; 672200, 4255600; 672400, 4255600; 672700, 4256400; 673200, 4256400; 672800, 4255100; 672800, 4254800; 673100, 4254900; 673800, 4254900; 674000, 4254600; 674000, 4254400; 674500, 4254000; 674500, 4253700; 674100, 4253500; 674100, 4252900; 674300, 4252300; 674500, 4251900; 674500, 4251600; 673400, 4251500; 673300, 4251400; 673300, 4251200; 673900, 4251000; 674000, 4250500; 674300, 4250000; 674300, 4249800; 674200, 4249700; 673900, 4249700; 673600, 4249900; 672500, 4249900; 671900, 4250200; 671300, 4250200; 671100, 4250500; 671000, 4250500; 671000, 4249800; 670700, 4249800; 670700, 4249500; 670800, 4249300; 670800, 4249000; 670900, 4248930; 670900, 4248500; 670500, 4248300; 670500, 4248125; 670400, 4248100; 670400, 4248000; 670100, 4248000; 670100, 4247800; 670500, 4247500; 671100, 4247500; 671600, 4247700; 671800, 4247600; 671900, 4247300; 671900, 4247100; 671500, 4246800; 671600, 4246600; 671800, 4246000; 671250, 4245360; 670800, 4245000; 670000, 4244200; 670000, 4244100; 670500, 4243800; 670200, 4243400; 670200, 4243300; 670300, 4243200; 670400, 4243100; 670600, 4242600; 671200, 4242900; 671600, 4243000; 671600, 4242700; 670700, 4242100; 669800, 4242100; 669300, 4241900; 668900, 4241900; 668700, 4241800; 668500, 4241600; 668400, 4241600; 668200, 4241700; 668000, 4242000; 667900, 4242000; 667400, 4241600; 667400, 4241800; 666400, 4241700; 665400, 4241700; 665400, 4242700; 665000, 4242700; 665000, 4242300; 664800, 4242300; 664800, 4242200; 664700, 4242200; 664600, 4242100; 664500, 4242100; 664500, 4241300; 664000, 4241300; 664000, 4241000; 663500, 4241000; 663500, 4240900; 663400, 4240800; 663300, 4240800; 663300, 4240600; 663100, 4240600; 663100, 4240900; 662800, 4240900; 662800, 4240500; 662700, 4240400; 662700, 4240000; 662500, 4240000; 662500, 4239600; 662100, 4239600; 662100, 4239400; 662000, 4239300; 661700, 4239300; 661700, 4239200; 661400, 4239000; 661400, 4239900; 661500, 4239900; 661500, 4241600; 661500, 4241900; 661700, 4242000; 662200, 4242000; 662200, 4241600; 662900, 4241600; 662800, 4242300; 662500, 4242300; 662600, 4243000; 662900, 4243100; 663400, 4243100; 663400, 4243800; 663000, 4243800; 663000, 4243900; 662500, 4243900; 662700, 4244700; 662850, 4244800; 663000, 4244900; 663100, 4245300; 663800, 4245300; 663900, 4245500; 664400, 4245600; 664500, 4245200; 664600, 4245200; 664900, 4245275; 665000, 4245300; 664900, 4245700; 664900, 4246500; 664400, 4246500; 663900, 4246700; 662500, 4246300; 662230, 4246300; 662100, 4246400; 661700, 4246400; 662000, 4247300; 661800, 4247500; 660900, 4247500; 660850, 4247100; 659700, 4247100; 659500, 4247300; 659500, 4248300; 660000, 4248300; 659900, 4249600; 660000, 4249900; 659900, 4250200; 659400, 4249700; 659400, 4249500; 659300, 4249200; 659100, 4249000; 659100, 4248900; 659200, 4248800; 659100, 4248700; 658900, 4248700; 658800, 4248600; 658600, 4248600; 658500, 4248800; 658400, 4248900; 658200, 4249000; 658200, 4248900; 658300, 4248700; 658500, 4248500; 658500, 4248400; 658400, 4248300; 658400, 4247900; 658100, 4247900; 658000, 4248500; 656700, 4248500; 656300, 4248900; 655900, 4248200; 656100, 4248100; 656100, 4248000; 656000, 4247800; 655200, 4247800; 655200, 4247200; 654700, 4247200; 654700, 4248750; 654700, 4249000; 655100, 4249000; 655800, 4249000; 656300, 4249700; 656600, 4249500; 657200, 4250200; 656700, 4251100; 657700, 4251100; 657700,

4251500; 656700, 4251400; 656700, 4252100; 656500, 4252300; 656500, 4252600; 657000, 4253700; 657400, 4254600; 657800, 4254300; 657800, 4254200; 658900, 4253500; 659000, 4253500; 659300, 4253300; 660000, 4254500; 660100, 4254800; 660200, 4254900; 660300, 4255200; 660600, 4255300; 660700, 4255400; 660800, 4256000; 660600, 4256200; 660300, 4256100; 660000, 4256200; 659800, 4256300; 659850, 4256450; 659900, 4256600; 660200, 4256500; 660300, 4256800; 660600, 4256700; 660800, 4256800; 660600, 4257000; 660700, 4257500; 660600, 4257600; 660600, 4258000; 659900, 4258000; 659900, 4258100; 659700, 4258300; 659700, 4258500; 659600, 4258800; 659700, 4259100; 660100, 4259300; 660300, 4259100; 660500, 4259100; 660600, 4259300; 660800, 4259300; 661300, 4259800; 661600, 4259700; 661600, 4259300; 661800, 4259300; 661800, 4259100; 662200, 4259100; 662200, 4259600; 662400, 4259600; 662700, 4259100; 662900, 4258900; 662800, 4258700; 662700, 4258500; 662000, 4258100; 661500, 4257700; 661200, 4257100; 661600, 4256700; 662000, 4256700; 661900, 4256400; 661800, 4256100; 661800, 4255800; 661600, 4255600; 662100, 4255400; 662300, 4255800; 663100, 4255800; 664100, 4256600; 664500, 4257000; 664800, 4257500; 664800, 4257800; 665100, 4258100; 665100, 4258500; 665400, 4258700; 665900, 4258800; 666500, 4258800; 666700, 4258600; 666600, 4258200; 666300, 4258000; 666100, 4257400; 666000, 4257300; 666000, 4257000; 666400, 4257000; 666500, 4257600; 666800, 4257600; 666900, 4257400; 666900, 4257100; 666700, 4256900; 666800, 4256700; 666700, 4256300; 666600, 4256100; 667200, 4256100; 667400, 4256300; 667600, 4256300; 667800, 4256100; 667900, 4256300; 668100, 4256300; 668400, 4255900; returning to 668900, 4255600.

(14) Unit 10: Yolo County, California. From USGS 1:24,000 quadrangle maps Davis and Saxon, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 615400, 4260700; 614500, 4260700; 614500, 4261500; 614200, 4261500; 614200, 4261800; 614000, 4261800; 614000, 4262300; 615400, 4262300; returning to 615400, 4260700.

(15) Unit 11: Solano County, California. [Reserved]

(16) Unit 12: Solano County, California. [Reserved]

(17) Unit 13: Stanislaus County, California. From USGS 1:24,000 quadrangle maps Knights Ferry,

Oakdale, Paulsell and Waterford California, land bounded by the following UTM 10 NAD 83 coordinates (E, N):

(i) Start at 698400, 4172400; 698100, 4172800; 698200, 4173000; 697400, 4174300; 697300, 4174300; 697300, 4174500; 697800, 4174500; 697800, 4176300; 697700, 4176300; 697700, 4179300; 696800, 4179300; 696600, 4180000; 696600, 4180200; 697100, 4179900; 697700, 4180200; 697700, 4180400; 697600, 4180400; 697600, 4182200; 698700, 4182200; 699000, 4182600; 700300, 4182600; 700300, 4183400; 699400, 4183400; 699400, 4184100; 700800, 4185100; 704100, 4186300; 705300, 4187700; 705700, 4187700; 706500, 4187700; 706200, 4186800; 705600, 4185900; 706800, 4184600; 705500, 4183800; 705000, 4183100; 704800, 4181800; 701800, 4181800; 701800, 4181500; 701500, 4181100; 702000, 4179500; 703200, 4179500; 703000, 4178800; 702900, 4178800; 702600, 4178900; 702400, 4178900; 702400, 4178500; 702800, 4178300; 702900, 4178300; 703100, 4177800; 703100, 4177500; 703000, 4177300; 702700, 4177500; 702600, 4177500; 702500, 4177400; 702700, 4177200; 702700, 4177000; 702600, 4177100; 702400, 4177100; 702400, 4177000; 702400, 4176800; 702300, 4176800; 702300, 4177100; 702200, 4177200; 702000, 4177100; 702100, 4176900; 702000, 4176800; 701800, 4176800; 701600, 4176700; 701600, 4176500; 701600, 4176200; 701700, 4175900; 701800, 4175800; 702000, 4175800; 702000, 4175100; 701600, 4175100; 701600, 4174200; 701900, 4173700; 701800, 4173600; 701700, 4173500; 701700, 4173300; 701700, 4173200; 701600, 4173200; 701500, 4173100; 701500, 4173000; 701600, 4173000; 701600, 4172800; 701500, 4172600; 701300, 4172500; 701100, 4172600; 700700, 4172600; 700600, 4172600; 700500, 4172700; 700500, 4172900; 700400, 4172900; 700400, 4172800; 700100, 4172700; 699600, 4172700; 699500, 4172800; 699300, 4172800; 699100, 4172500; 698800, 4172500; 698700, 4172600; returning to 698400, 4172400; and excluding land bound by 700700, 4176200; 699400, 4176200; 699300, 4176200; 699300, 4177800; 701000, 4177800; 701000, 4177000; 700500, 4177000; 700500, 4176600; 700700, 4176400; returning to 700700, 4176200; and excluding land bound by 699400, 4179400; 698100, 4179400; 698400, 4179500; 698400, 4180200; 699800, 4180200; 699800, 4180000; 699600, 4179800; returning to 699400, 4179400.

(ii) Start at 702000, 4169700; 701000, 4169700; 700700, 4169700; 700700, 4170500; 700500, 4170500; 700500, 4170900; 700300, 4170900; 700300, 4171100; 700300, 4171800; 701200, 4171800; 702000, 4171800; 702000, 4169800; returning to 702000, 4169700.

(18) Unit 14: Alameda County, California. From USGS 1:24,000 quadrangle maps Milpitas and Niles, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 591200, 4148600; 590700, 4148600; 590700, 4148700; 590300, 4149200; 589400, 4150300; 589500, 4150200; 589900, 4150100; 590100, 4150400; 590900, 4150000; 591500, 4150800; 591600, 4150700; 591800, 4150700; 592000, 4150900; 592300, 4150600; 592300, 4150400; 592200, 4150000; 592100, 4149600; 592000, 4149500; 591600, 4149500; 591600, 4148800; returning to 591200, 4148600.

(19) Unit 15: Madera, Mariposa and Merced, California. From USGS 1:24,000 quadrangle maps Haystack Mtn., Illinois Hill, Indian Gulch, Le Grand, Merced, Merced Falls, Owens Reservoir, Plainsburg, Planada, Raynor Creek, Snelling, Winton, and Yosemite Lake, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N):

(i) Start at 736600, 4134200; 733900, 4134200; 733900, 4134800; 733800, 4134900; 733800, 4135000; 733000, 4135000; 733000, 4135800; 732500, 4135800; 730300, 4135700; 730200, 4135600; 730100, 4135600; 729900, 4135700; 729900, 4136500; 729900, 4136700; 730000, 4136700; 730100, 4136600; 730200, 4136600; 730300, 4136600; 730400, 4136700; 730500, 4136800; 730600, 4136900; 730600, 4137000; 730600, 4137200; 730600, 4137300; 730500, 4137400; 730400, 4137500; 730300, 4137500; 729900, 4137700; 729800, 4137700; 729700, 4137600; 729400, 4137600; 729300, 4137800; 729300, 4138400; 729200, 4138500; 729000, 4138400; 728800, 4138700; 728400, 4138800; 728200, 4138800; 727900, 4138600; 727700, 4138500; 727600, 4138400; 727400, 4138300; 727400, 4137800; 727300, 4137800; 727300, 4137600; 727400, 4137600; 727400, 4137500; 727300, 4137500; 727300, 4137400; 727400, 4137400; 727400, 4137200; 726500, 4137200; 726500, 4136500; 726400, 4136400; 725800, 4136400; 725800, 4137200; 725000, 4137200; 724900, 4138800; 725500, 4138800; 725500, 4138700; 725800, 4138700; 725800, 4138800; 725900, 4138800; 725900, 4139500; 726500, 4139500; 726500, 4139600; 725900, 4139600; 725800, 4139600; 725800, 4140200; 725900, 4140200; 725900, 4140900; 725400, 4140900; 725400, 4140800; 725100, 4140800; 725100, 4141000; 724900, 4141000; 724900, 4141200; 724100, 4141200; 724100, 4141600; 723400, 4141600; 723400, 4141100; 723200, 4141100; 723200, 4140600; 723400, 4140500; 723400, 4139500; 724000, 4139500; 724000, 4139400; 723900, 4138900; 723900, 4138700; 723500, 4138200; 723400, 4138200; 723400, 4138300; 723000, 4138300; 723000, 4138700; 723000, 4138900; 723100, 4139100; 723200, 4139400; 723300, 4139500; 722100, 4139500; 722000, 4140500; 721900, 4141100; 721900, 4141900; 721900, 4143400; 720800, 4143400; 720900, 4141800; 721000, 4141500; 721000, 4141200; 721100, 4141100; 721000, 4141000; 717800, 4140900; 717700, 4142500; 714500, 4142400; 714500, 4144900; 715500, 4144900; 715500, 4145000; 715800, 4145000; 715900, 4145000; 716000, 4145000; 716100, 4145100; 716100, 4145200; 716000, 4145200; 715900, 4145300; 715900, 4145400; 716000, 4145500; 716000, 4145600; 716100, 4145700; 717000, 4145700; 717700, 4145300; 717800, 4145300; 717800, 4145200; 717800, 4145100; 717600, 4144900; 717600, 4144800; 717600, 4144700; 717800, 4144500; 717900, 4144600; 718200, 4144600; 718400, 4144500; 718700, 4144500; 718700, 4144800; 718600, 4145000; 718700, 4145100; 718700, 4145600; 718600, 4145600; 718600, 4145700; 718700, 4145800; 718600, 4145900; 718500, 4146000; 718500, 4146100; 718600, 4146200; 718600, 4146500; 718300, 4146500; 718200, 4146600; 718200, 4146800; 718300, 4146800; 718500, 4146900; 718600, 4147000; 718600, 4147100; 718400, 4147200; 718500, 4147300; 718500, 4147600; 718700, 4147600; 718700, 4147400; 719000, 4147500; 719100, 4147700; 719300, 4147600; 719600, 4147900; 719700, 4148000; 719700, 4148100; 719800, 4148200; 720000, 4148200; 720600, 4148200; 720600, 4148300; 720700, 4148400; 720800, 4148400; 720900, 4148500; 722700, 4148500; 722700, 4148600; 722900, 4148600; 723200, 4148700; 723400, 4148700; 723200, 4148600; 723100, 4148500; 723000, 4148400; 723200, 4148200; 723400, 4148200; 723500, 4148300; 723600, 4148400; 723600, 4148500; 723800, 4148500; 723800, 4148400; 723900, 4148400; 723900, 4148500; 724000, 4148700; 724200, 4148500; 724200, 4148900; 724300, 4149000; 724300, 4149100; 724500, 4149000; 724500,

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(20) Subunit 16A: Merced County, California. [Reserved]

(21) Subunit 16B: Merced County, California. [Reserved]

(22) Subunit 16C: Gustine, San Luis Ranch, Stevinson, California. [Reserved]

(23) Subunit 16D: Merced County, California. [Reserved]

(24) Subunit 16E: Merced County, California. [Reserved]

(25) Subunit 16F: Merced County, California. [Reserved]

(26) Subunit 16G: Merced County, California. [Reserved]

(27) Unit 17: Fresno County, California. From USGS 1:24,000 quadrangle maps Academy and Millerton Lake East, California, land bounded by the following UTM 11 NAD 83 coordinates (E, N): 267300, 4097300; 266900, 4097300; 267000, 4097600; 267800, 4098300; 268100, 4098700; 268100, 4098900; 268000, 4099100; 267400, 4099800; 267400, 4100300; 267700, 4100800; 268100, 4101400; 268600, 4101400; 269100, 4101100; 269600, 4101100; 269800, 4101300; 269900, 4101500; 269600, 4102200; 269200, 4102400; 268600, 4102800; 268700, 4103800; 269100, 4103800; 269600, 4103100; 270200, 4103500; 270300, 4103500; 270700, 4102500; 270500, 4102400; 270300, 4102200; 270300, 4101900; 270500, 4101500; 270600, 4101100; 270500, 4101000; 270200, 4100700; 269400, 4100500; 268300, 4100500; 268100, 4100300; 268100, 4100100; 268400, 4099800; 268600, 4099500; 268700, 4099200; 268700, 4098900; 268600, 4098300; 268500, 4098100; 268400, 4097800; 268100, 4097600; 267800, 4097400; returning to 267300, 4097300.

(28) Subunit 18A: Kings and Tulare County, California. From USGS 1:24,000 quadrangle maps Burris Park, Monson, Remnoy and Traver, California, land bounded by the following UTM 11 NAD 83 coordinates (E, N): 287000, 4034600; 287000, 4035100; 288500, 4035100; 288500, 4035600; 287700, 4035700; 287700, 4036700; 289300, 4036700; 289400, 4037400; 291100, 4037400; 291100, 4037200;

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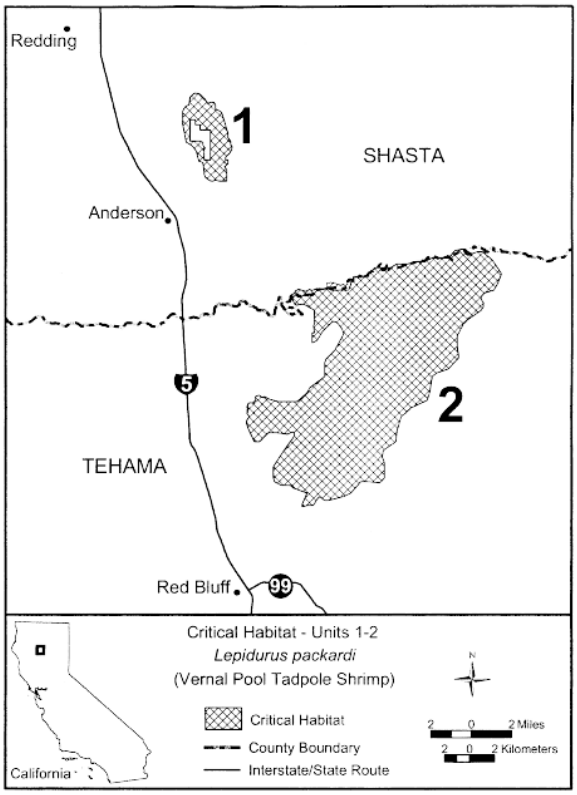
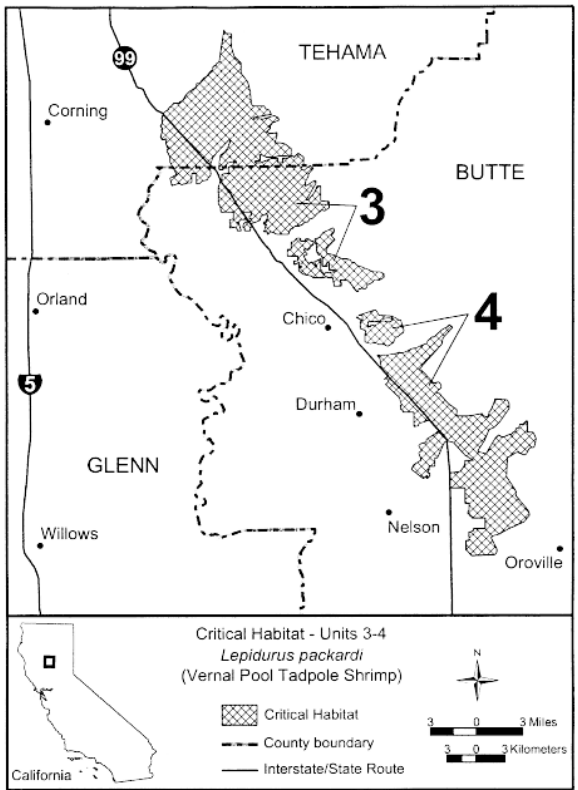
(29) Subunit 18B: Tulare County, California. From USGS 1:24,000 quadrangle map Monson, California, land bounded by the following UTM 11 NAD 83 coordinates (E, N): 297500, 4035500; 296700, 4035500; 296700, 4036300; 297500, 4036300; returning to 297500, 4035500.

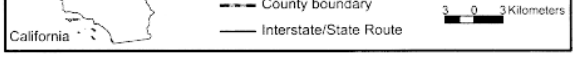
(30) Subunit 18C: Tulare County, California. From USGS 1:24,000 quadrangle map Ivanhoe , California, land bounded by the following UTM 11 NAD 83 coordinates (E, N): 299200, 4038600; 298400, 4038600; 298400, 4039500; 298500, 4039800; 298900, 4039900; 298900, 4041000; 299700, 4041000; 299300, 4041500; 300900, 4041500; 300900, 4041400; 300400, 4041400; 300400, 4040100; 300300, 4040100; 300300, 4039400; 299200, 4039400; returning to 299200, 4038600.

(31) Maps follow of critical habitat units 1 and 2, 3 and 4, 6 and 7, 8 through 10, 13, 14, 15, 16, 17, and 18 (respectively) for vernal pool tadpole shrimp.



View or download PDF





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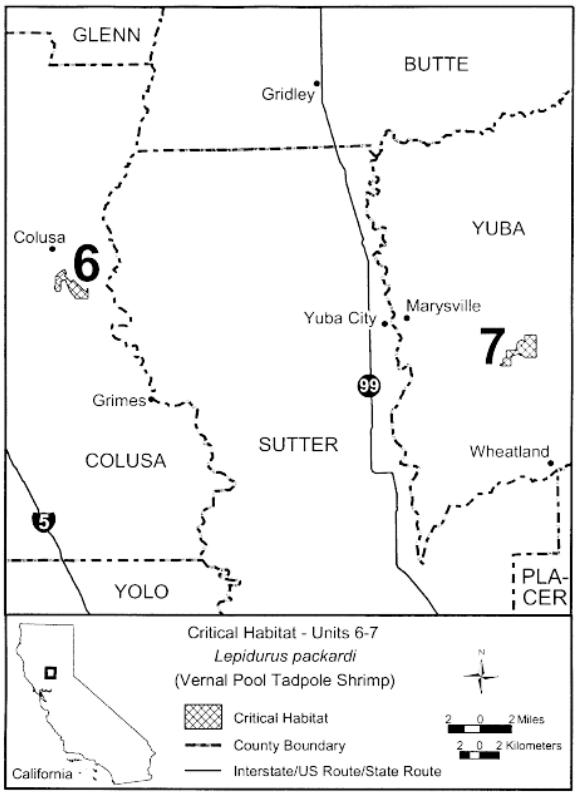

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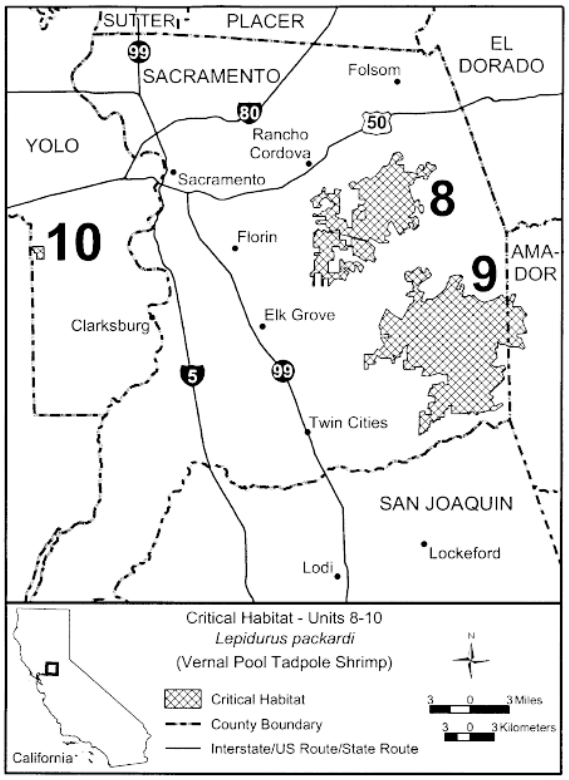

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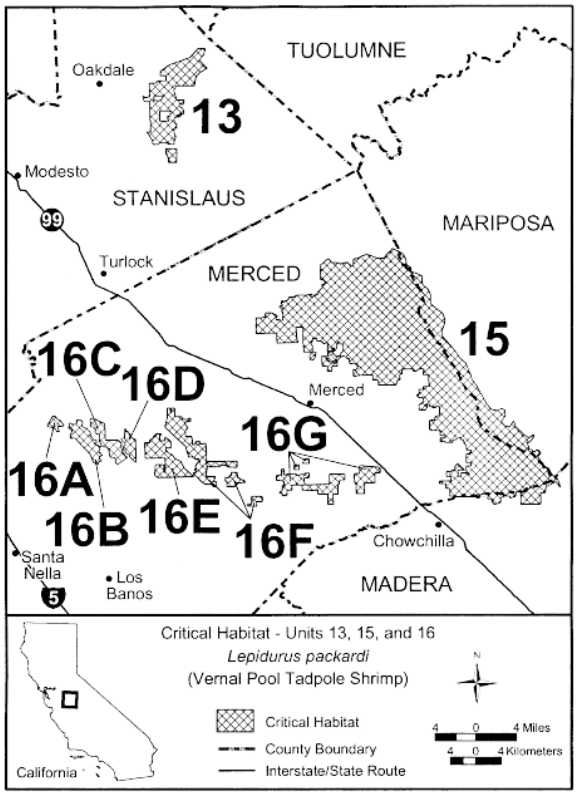

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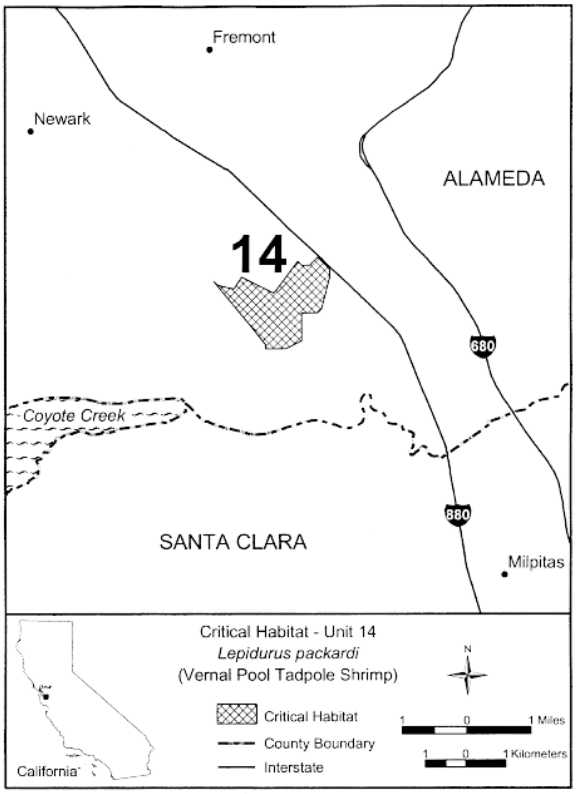

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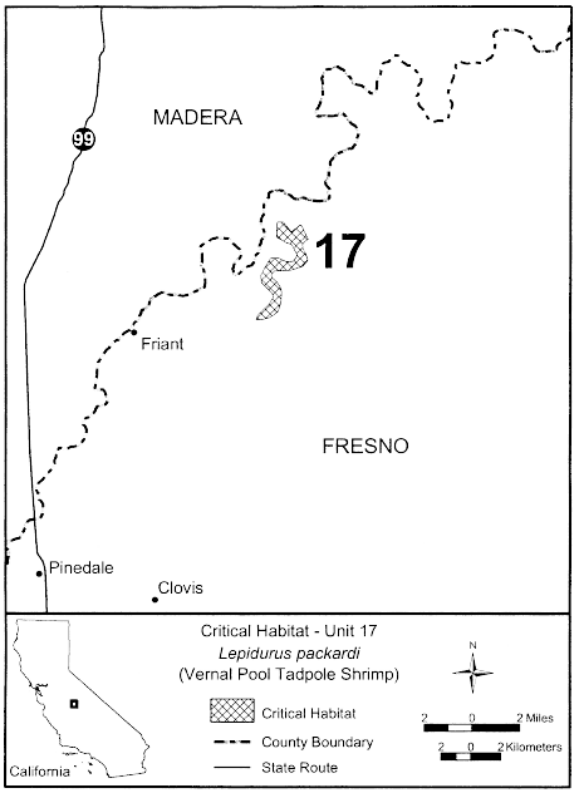

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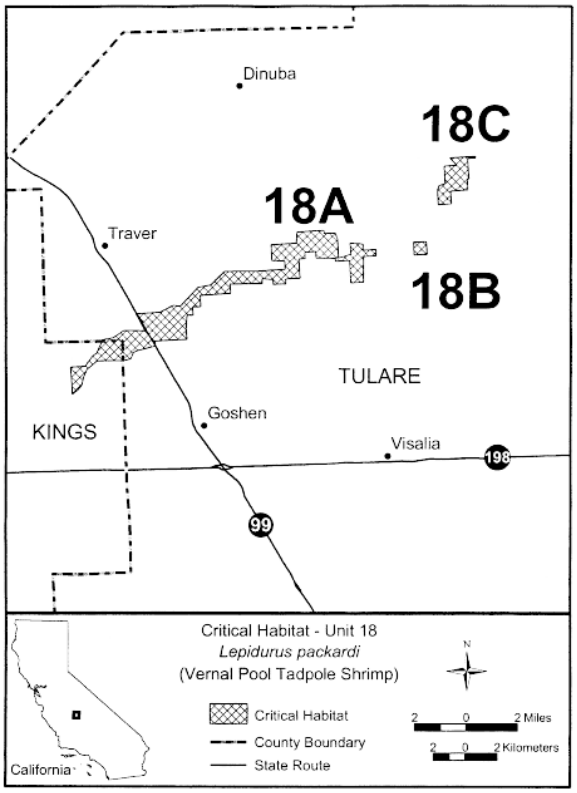

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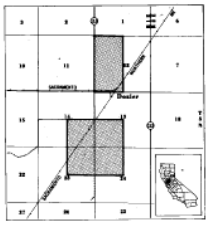
(i) *Insects.*

Delta Green Ground Beetle (Elaphrus viridis)

California. Solano County. T.5N. R.1E. West 1/2 Sec. 12, southwest 1/4 Sec. 13, southeast 1/4 Sec. 14, northeast 1/4 Sec. 23, northwest 1/4 Sec. 24.

Note:

Map follows:



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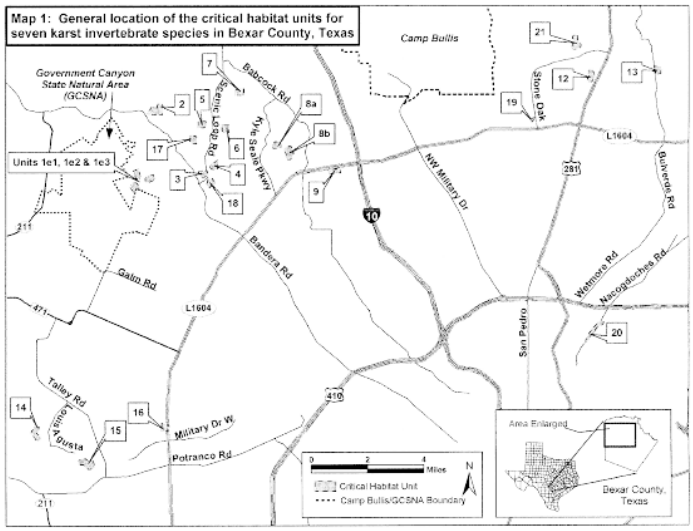
Helotes mold beetle (Batrisodes venyivi)

(1) Critical habitat for the Helotes mold beetle occurs in Units 1e1, 3, and 5 as described below and depicted on Map 1 (index map) and Maps 2 through 4 below. All coordinates are geographic longitude and latitude, decimal degree coordinate pairs, referenced to North American Horizontal Datum 1983. Coordinates were derived from 2001 digital orthophotographs.

(2) Map 1—Index map of critical habitat units for karst invertebrate species in Bexar County, Texas—follows:



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(3) The primary constituent elements include:

(i) The physical features of karst-forming rock containing subterranean spaces with stable temperatures, high humidities (near saturation), and suitable substrates (for example, spaces between and underneath rocks suitable for foraging and sheltering); and

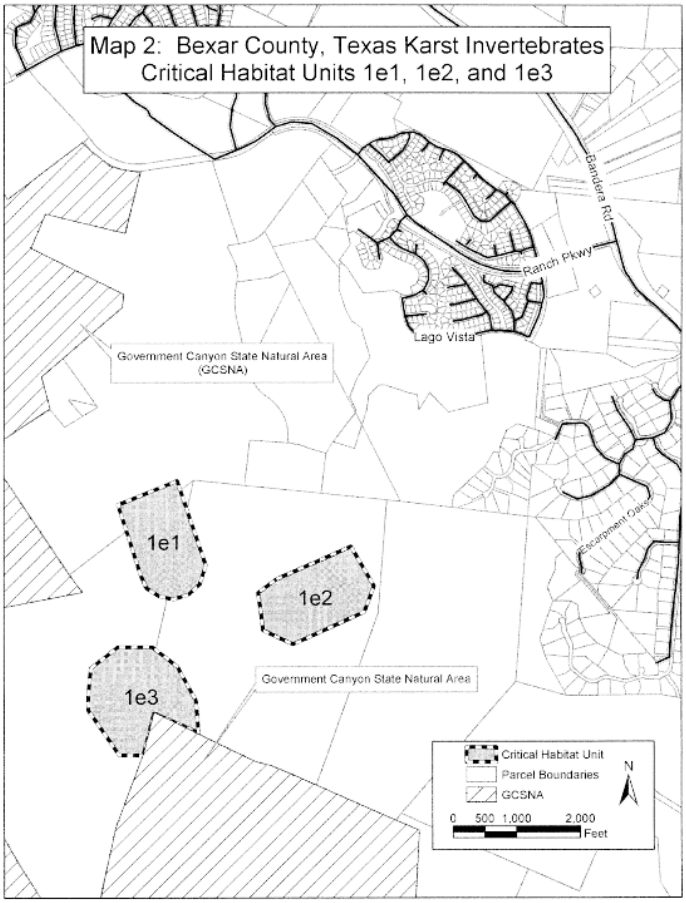
(ii) The biological features of a healthy surface community of native plants (for example, juniper-oak woodland) and animals (for example, cave crickets) surrounding the karst feature that provide nutrient input and buffer the karst ecosystem from adverse effects (from, for example, nonnative species invasions, contaminants, and fluctuations in temperature and humidity).

(4) Existing human-constructed, above ground, impervious structures do not contain the primary constituent elements and are not considered to be critical habitat. Such features and structures include, but are not limited to, buildings and paved roads. However, subsurface areas under these structures are considered to be critical habitat since subterranean spaces containing these species and/or transmitting moisture and nutrients through the karst ecosystem extend, in some cases, underneath these existing human-constructed structures. Landscaped areas associated with existing human-constructed structures are also not considered critical habitat.

(5) Two caves, Helotes Blowhole and Helotes Hilltop caves, and their associated approximately 10 ha (25 ac) karst management area established under the La Cantera section 10 permit, are within the boundaries of Unit 3 but are not designated as critical habitat.

(6) Unit 1e1 (15 ha (38 ac)) is an area bounded by points with the following coordinates: –98.7273522, 29.5853221; –98.7276682, 29.5844887; –98.7282285, 29.5840393; –98.7289978, 29.5838347; –98.7296876, 29.5839736; –98.7302983, 29.5843184; –98.7305603, 29.5848409; –98.7317069, 29.5879827; –98.7287776, 29.5890153; –98.7285230, 29.5883695; –98.7273522, 29.5853221.

(7) Map 2—Unit 1e1 (which also depicts Units 1e2 and 1e3) follows:



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(8) Unit 3 (17 ha (41 ac)) is an area bounded by points with the following coordinates: –98.6924522, 29.5880654; –98.6884953, 29.5878232; –98.6883750, 29.5869448; –98.6879295, 29.5850798; –98.6894469, 29.5850833; –98.6906186, 29.5841182; –98.6929315, 29.5855036; –98.6936461, 29.5865268; –98.6931713, 29.5875652; –98.6924522, 29.5880654.

(9) Map 3—Unit 3 (which also depicts Units 4 and 18) follows:

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(10) Unit 5 (16 ha (40 ac)) is an area bounded by points with the following coordinates: –98.6935478, 29.6136095; –98.6890212, 29.6135990; –98.6890205, 29.6111931; –98.6891305, 29.6109546; –98.6896239, 29.6104067; –98.6903350, 29.6101696; –98.6935582, 29.6101663; –98.6935478, 29.6136095.

(11) Map 4—Unit 5 (which also depicts Unit 17) follows:

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Beetle (no common name) (Rhadine exilis)

(1) Critical habitat for the beetle *Rhadine exilis* in Bexar County, Texas, occurs in Units 1e1, 3, and 5 as provided in the critical habitat unit descriptions and depicted on Maps 1 through 4 in the entry for Helotes mold beetle in this paragraph (i). Critical habitat for this species also occurs in Units 1e3 and 4 as described below and depicted on Maps 2 and 3 in the entry for Helotes mold beetle in this paragraph (i). In addition, critical habitat for this species occurs in Units 2, 6, 7, 8a, 8b, 9, 12, 13, and 21 as described below and depicted on Maps 5 through 12 below. The primary constituent elements and statements regarding existing structures and associated landscaping, as described in the entry for Helotes mold beetle in this paragraph (i), are identical for this species.

(2) Four caves and their associated karst management areas established under the La Cantera section 10 (a)(1)(B) permit are within the boundaries of units but are not designated as critical habitat. These include Helotes Blowhole and Helotes Hilltop caves and the surrounding approximately 10 ha (25 ac) (within Unit 3); John Wagner Ranch Cave No. 3 and the surrounding approximately 1.6 ha (4 ac) (within Unit 6); and Hills and Dales Pit and the surrounding approximately 28 ha (70 ac) (within Unit 8b).

(3) Unit 1e3 (19 ha (46 ac)) is an area bounded by points with the following coordinates: –98.7330644, 29.5808303; –98.7317429, 29.5817323; –98.7300245, 29.5817484; –98.7287834, 29.5808858; –98.7278797, 29.5794152; –98.7277522, 29.5779929; –98.7299554, 29.5788393; –98.7305067, 29.5770049; –98.7316838, 29.5770266; –98.7331986, 29.5789722; –98.7332119, 29.5796238; –98.7330644, 29.5808303.

(4) A map of Unit 1e3 is provided in Map 2 of the entry for Helotes mold beetle in this paragraph (i).

(5) Unit 2 (37 ha (92 ac)) is an area bounded by points with the following coordinates: –98.7233687, 29.6171088; –98.7232109, 29.6176729; –98.7226506, 29.6187073; –98.7223227, 29.6191855; –98.7219946, 29.6195016; –98.7215653, 29.6198980; –98.7214108, 29.6206847; –98.7175298, 29.6206847; –98.7174011, 29.6219810; –98.7170539, 29.6225993; –98.7162170, 29.6229506; –98.7153881, 29.6229101; –98.7147133, 29.6225995; –98.7143375, 29.6220053; –98.7142667, 29.6214953; –98.7144462, 29.6206782; –98.7144750, 29.6170924; –98.7145361, 29.6170162; –98.7165027, 29.6170258; –98.7163850, 29.6174867; –98.7177246, 29.6172351; –98.7177252, 29.6170317; –98.7211420, 29.6170764; –98.7233687, 29.6171088.

(6) Map 5—Unit 2 follows:

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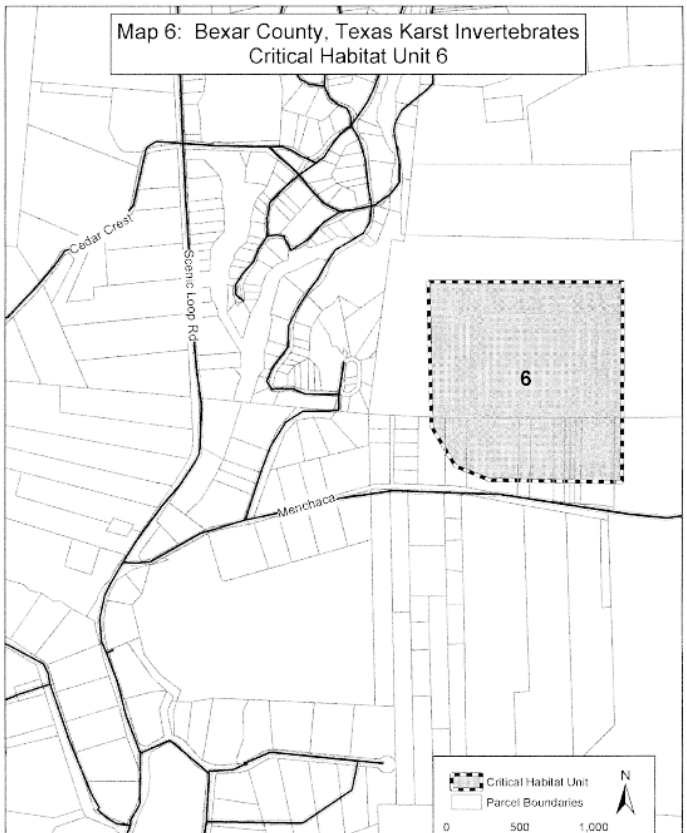
(7) Unit 4 (16 ha (40 ac)) is an area bounded by points with the following coordinates: –98.6867019, 29.5907363; –98.6858306, 29.5913949; –98.6821967, 29.5933020; –98.6821915, 29.5888925; –98.6838368, 29.5884340; –98.6861597, 29.5888524; –98.6867424, 29.5898281; –98.6867019, 29.5907363.

(8) A map of Unit 4 is provided in Map 3 of the entry for Helotes mold beetle in this paragraph (i).

(9) Unit 6 (16 ha (40 ac)) is an area bounded by points with the following coordinates: –98.6754738, 29.6114940; –98.6754991, 29.6076989; –98.6783407, 29.6077443; –98.6790700, 29.6080113; –98.6795845, 29.6087581; –98.6796498, 29.6115041; –98.6754738, 29.6114940.

(10) Map 6—Unit 6 follows:



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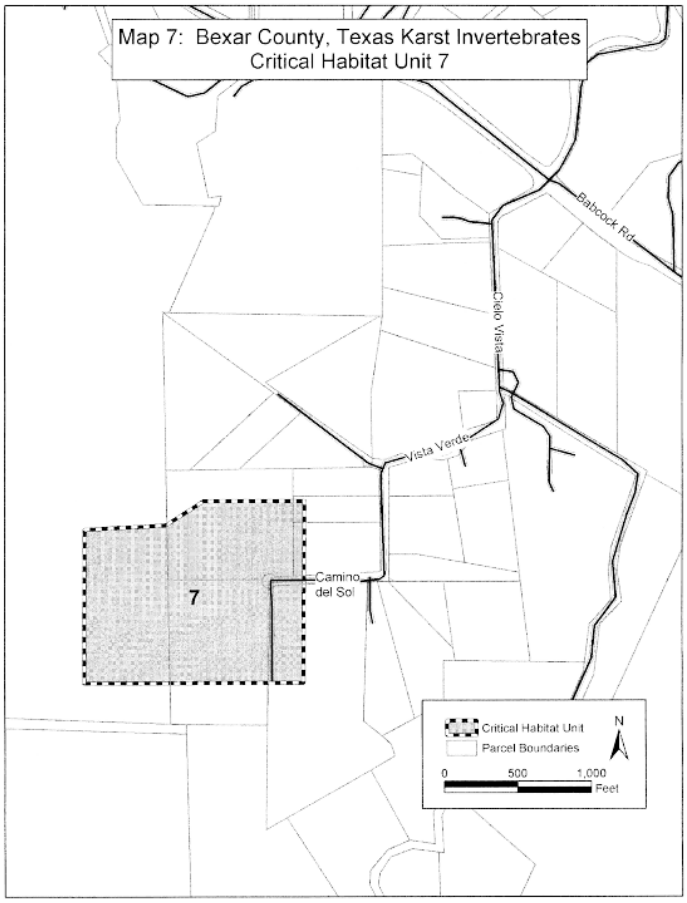
(11) Unit 7 (16 ha (40 ac)) is an area bounded by points with the following coordinates: –98.6713696, 29.6269338; –98.6713466, 29.6298459; –98.6696115, 29.6299251; –98.6688040, 29.6303752; –98.6666183, 29.6303712; –98.6666569, 29.6269341; –98.6713696, 29.6269338.

(12) Map 7—Unit 7 follows:



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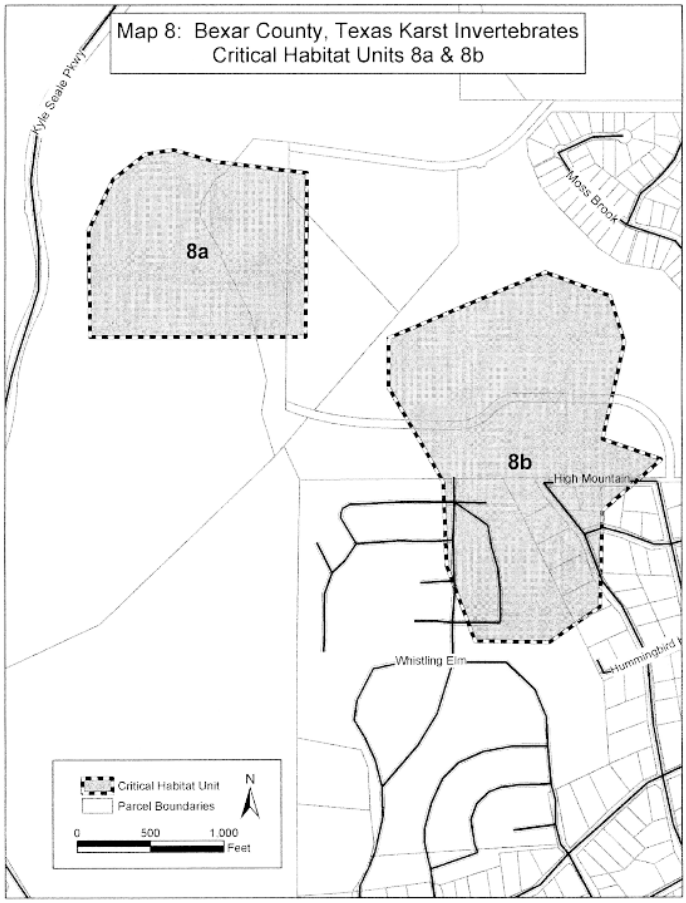
(13) Unit 8a (16 ha (40 ac)) is an area bounded by points with the following coordinates: –98.6467402, 29.6026321; –98.6447253, 29.6024097; –98.6447648, 29.5992959; –98.6494110, 29.5993090; –98.6494384, 29.6013452; –98.6489127, 29.6023010; –98.6482203, 29.6027779; –98.6476087, 29.6028598; –98.6467402, 29.6026321.

(14) Unit 8b (28 ha (69 ac)) is an area bounded by points with the following coordinates: –98.6429582, 29.5992695; –98.6395799, 29.6005152; –98.6381868, 29.6000556; –98.6378758, 29.5991778; –98.6383595, 29.5973398; –98.6370868, 29.5969511; –98.6383585, 29.5959854; –98.6384179, 29.5941526; –98.6395017, 29.5934820; –98.6411044, 29.5935108; –98.6417193, 29.5949384; –98.6417849, 29.5965421; –98.6429721, 29.5983417; –98.6429582, 29.5992695.

(15) Map 8—Units 8a and 8b follows:



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(16) Unit 9 (16 ha (40 ac)) is an area bounded by points with the following coordinates: –98.6166421, 29.5881679; –98.6097995, 29.5889549; –98.6094772, 29.5865751; –98.6141408, 29.5862370; –98.6158210, 29.5862418; –98.6165749, 29.5871541; –98.6166421, 29.5881679.

(17) Map 9—Unit 9 follows:

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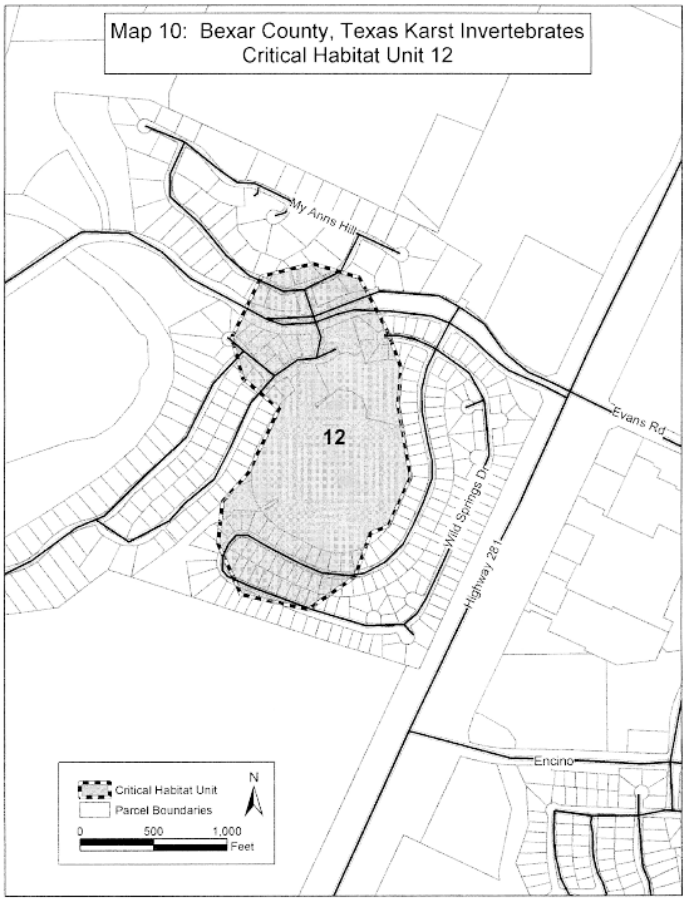
(18) Unit 12 (21 ha (51 ac)) is an area bounded by points with the following coordinates: –98.4631439, 29.6393535; –98.4620337, 29.6395912; –98.4610270, 29.6393230; –98.4604275, 29.6383078; –98.4601340, 29.6376003; –98.4602053, 29.6369053; –98.4599272, 29.6355399; –98.4604201, 29.6346170; –98.4608048, 29.6344781; –98.4611518, 29.6336481; –98.4621637, 29.6330425; –98.4636173, 29.6333332; –98.4641049, 29.6342973; –98.4640055, 29.6350951; –98.4634444, 29.6356360; –98.4627791, 29.6368420; –98.4635574, 29.6374176; –98.4637899, 29.6381796; –98.4637898, 29.6382043; –98.4631439, 29.6393535.

(19) Map 10—Unit 12 follows:



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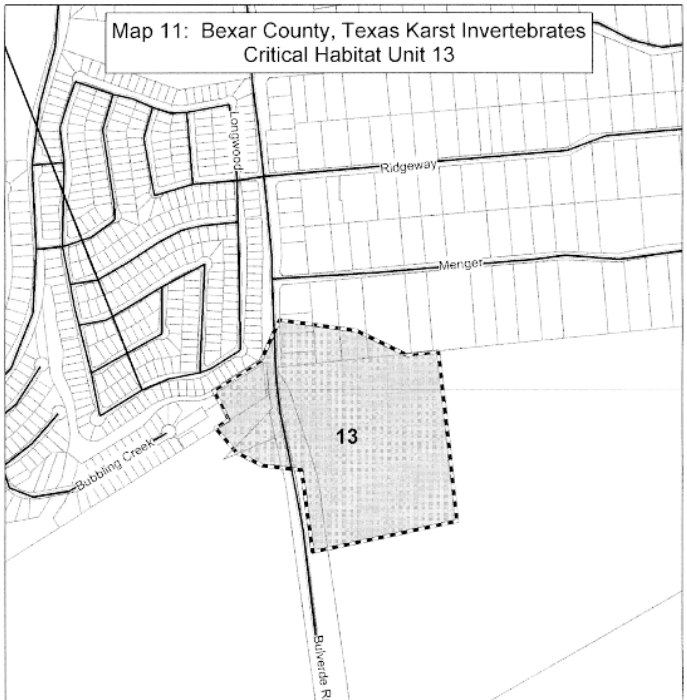
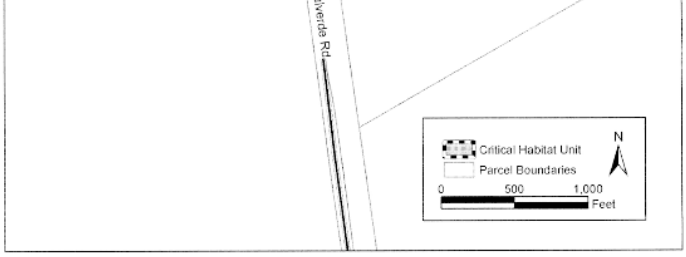
(20) Unit 13 (16 ha (40 ac)) is an area bounded by points with the following coordinates: –98.4218888, 29.6404393; –98.4212080, 29.6405040; –98.4208242, 29.6372953; –98.4239377, 29.6367357; –98.4241724, 29.6382709; –98.4250182, 29.6383670; –98.4255670, 29.6386096; –98.4260182, 29.6390832; –98.4257350, 29.6392361; –98.4260492, 29.6397945; –98.4250314, 29.6403527; –98.4246243, 29.6411168; –98.4229768, 29.6409069; –98.4218888, 29.6404393.

(21) Map 11—Unit 13 follows:





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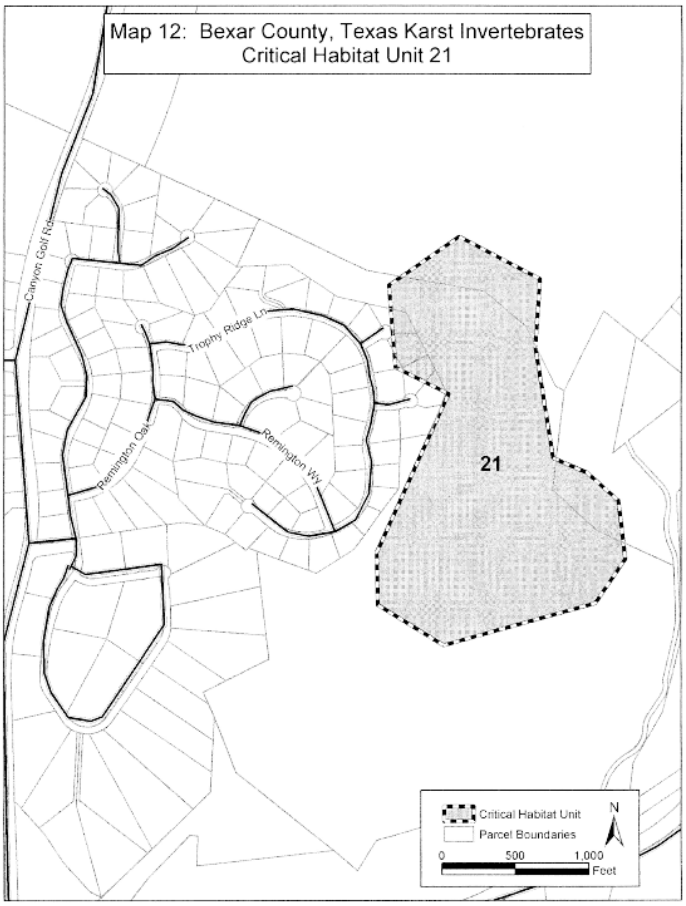
(22) Unit 21 (27 ha (68 ac)) is an area bounded by points with the following coordinates: –98.4716469, 29.6499842; –98.4730641, 29.6507507; –98.4730857, 29.6517491; –98.4715209, 29.6547384; –98.4726672, 29.6552447; –98.4728036, 29.6567962; –98.4712860, 29.6577112; –98.4695532, 29.6569100; –98.4696535, 29.6556282; –98.4692815, 29.6535131; –98.4685518, 29.6532365; –98.4678845, 29.6527093; –98.4677417, 29.6516106; –98.4683879, 29.6507722; –98.4716469, 29.6499842.

(23) Map 12—Unit 21 follows:



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Beetle (no common name) (Rhadine infernalis)

(1) Critical habitat for the beetle *Rhadine infernalis* in Bexar County, Texas, occurs in Units 1e1, 3 and 5 as provided in the critical habitat unit descriptions and depicted on Maps 1 through 4 in the entry for Helotes mold beetle in this paragraph (i). This species also occurs in the following units: Unit 1e2 as described below and depicted on Map 2 in the entry for Helotes mold beetle in this paragraph (i); Units 2, 6, 8a, and 8b as described in the text and depicted on Maps 5, 6, and 8 in the entry for beetle (*Rhadine exilis*) in this paragraph (i); Unit 4 as provided in the critical habitat descriptions for beetle (*Rhadine exilis*) and depicted on Map 3 in the entry for Helotes mold beetle in this paragraph (i); Units 17 and 18 described below and depicted on Maps 3 and 4 found in the entry for Helotes mold beetle in this paragraph (i); and Units 14, 15, 16, and 19 as described below and depicted on Maps 13 through 16 below. The primary constituent elements and statements regarding existing structures and associated landscaping, as described in the entry for Helotes mold beetle in this paragraph (i), are identical for this species.

(2) Five caves and their associated karst management areas established under the La Cantera section 10 (a)(1)(B) permit are within the boundaries of units but are not designated as critical habitat designation. These include Helotes Blowhole and Helotes Hilltop caves and the surrounding approximately 10 ha (25 ac) (within Unit 3); John Wagner Ranch Cave No. 3 and the surrounding approximately 1.6 ha (4 ac) (within Unit 6); and Hills and Dales Pit and the surrounding approximately 28 ha (70 ac) (within Unit 8b); and Madla Cave and the surrounding 2 ha (5 ac) (within Unit 17).

(3) Unit 1e2 (16 ha (40 ac)) is an area bounded by points with the following coordinates: –98.7238284, 29.5847161; –98.7201061, 29.5861352; –98.7189558, 29.5844029; –98.7194474, 29.5832652; –98.7230107, 29.5818492; –98.7245095, 29.5824623; –98.7247550, 29.5841155; –98.7238284, 29.5847161.

(4) A map of unit 1e2 is provided in Map 2 of the entry for Helotes mold beetle in this paragraph (i).

(5) Unit 14 (26 ha (64 ac)) is an area bounded by points with the following coordinates: –98.7863612, 29.4495294; –98.7869725, 29.4489471; –98.7875551, 29.4486522; –98.7883435, 29.4486781; –98.7889905, 29.4489913; –98.7918932, 29.4524710; –98.7918632, 29.4533747; –98.7904052, 29.4548676; –98.7899060, 29.4556966; –98.7887880, 29.4561713; –98.7872743, 29.4556964; –98.7870331, 29.4543351; –98.7888385, 29.4523567; –98.7868531, 29.4511085; –98.7863591, 29.4505317; –98.7863612, 29.4495294.

(6) Map 13—Unit 14 follows:

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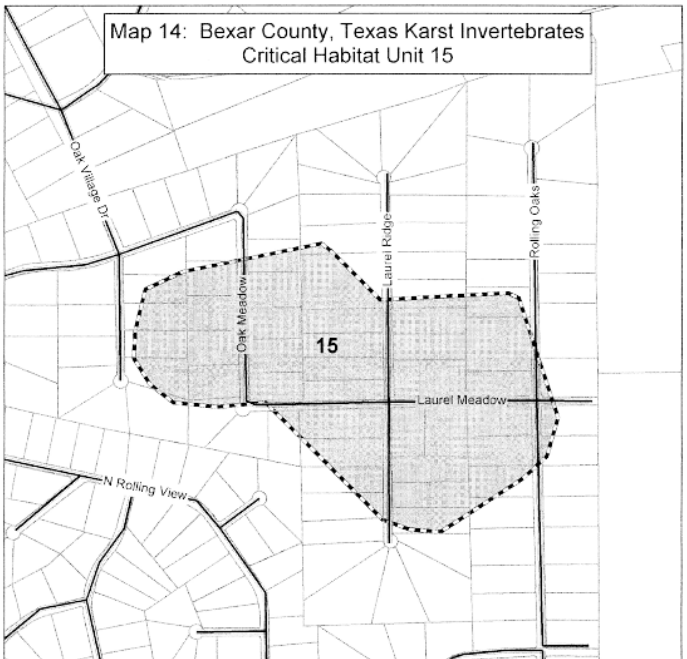
(7) Unit 15 (34 ha (85 ac)) is an area bounded by points with the following coordinates: –98.7631005, 29.4388531; –98.7600316, 29.4394009; –98.7598094, 29.4392533; –98.7587180, 29.4382984; –98.7558932, 29.4384257; –98.7556537, 29.4383265; –98.7547983, 29.4359982; –98.7550418, 29.4352415; –98.7555963, 29.4347910; –98.7573878, 29.4337784; –98.7580646, 29.4338220; –98.7586605, 29.4340159; –98.7612682, 29.4363049; –98.7623440, 29.4362183; –98.7633120, 29.4363085; –98.7638206, 29.4366668; –98.7641806, 29.4371861; –98.7641397, 29.4377268; –98.7639175, 29.4385170; –98.7631005, 29.4388531.

(8) Map 14—Unit 15 follows:



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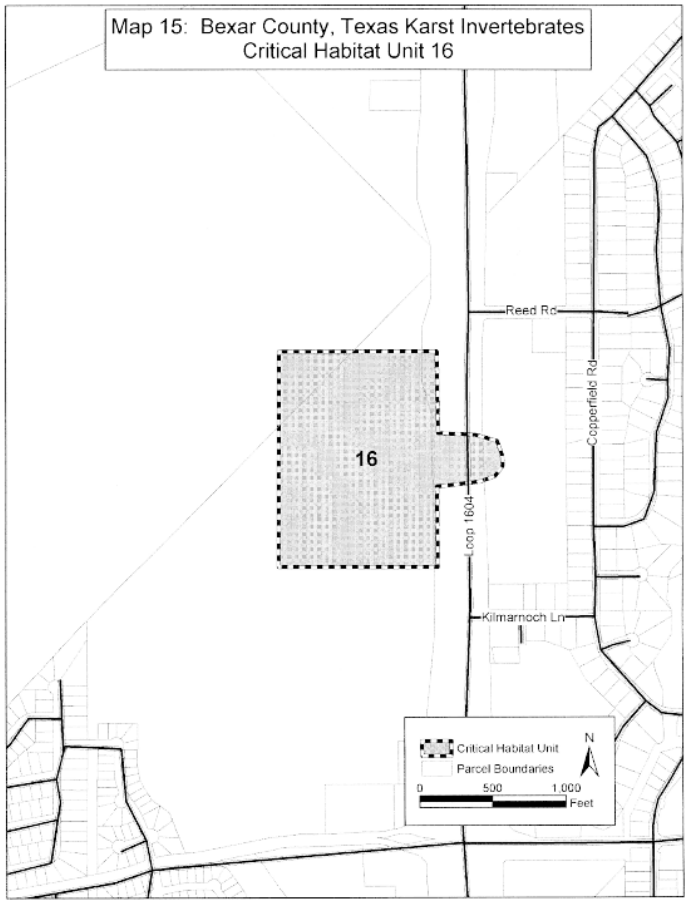
(9) Unit 16 (16 ha (40 ac)) is an area bounded by points with the following coordinates: –98.7154218, 29.4533018; –98.7153995, 29.4573801; –98.7119857, 29.4573751; –98.7119610, 29.4558232; –98.7111540, 29.4557860; –98.7106973, 29.4556731; –98.7105899, 29.4554235; –98.7105693, 29.4552002; –98.7107385, 29.4550044; –98.7110558, 29.4549040; –98.7119873, 29.4548136; –98.7119764, 29.4532848; –98.7154218, 29.4533018.

(10) Map 15—Unit 16 follows:



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(11) Unit 17 (16 ha (40 ac)) is an area bounded by points with the following coordinates: —98.6986633, 29.6061189; —98.6978901, 29.6064178; —98.6968967, 29.6060042; —98.6955470, 29.6059909; —98.6944214, 29.6056088; —98.6944325, 29.6018959; —98.6967798, 29.6018910; —98.6967762, 29.6031320; —98.6986774, 29.6031773; —98.6986633, 29.6061189.

(12) A map of Unit 17 is provided in Map 4 in the entry for Helotes mold beetle in this paragraph (i).

(13) Unit 18 (16 ha (40 ac)) is an area bounded by points with the following coordinates: —98.6879353, 29.5840278; —98.6871403, 29.5838597; —98.6859450, 29.5845069; —98.6838609, 29.5817508; —98.6870156, 29.5791593; —98.6889591, 29.5810380; —98.6883743, 29.5818521; —98.6879353, 29.5840278.

(14) A map of Unit 18 is provided in Map 3 in the entry for Helotes mold beetle in this paragraph (i).

(15) Unit 19 (5 ha (12 ac)) is an area bounded by points with the following coordinates: —98.4945129, 29.6147150; —98.4940750, 29.6145674; —98.4938755, 29.6141954; —98.4939880, 29.6138063; —98.4942787, 29.6135970; —98.4952809, 29.6135500; —98.4956056, 29.6133414; —98.4963069, 29.6130155; —98.4967699, 29.6130881; —98.4966492, 29.6123219; —98.4973783, 29.6125657; —98.4978516, 29.6131158; —98.4974600, 29.6135445; —98.4971077, 29.6136897; —98.4970745, 29.6140495; —98.4968571, 29.6142911; —98.4962556, 29.6145285; —98.4954870, 29.6146791; —98.4945129, 29.6147150.

(16) Map 16—Unit 19 follows:

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Valley Elderberry Longhorn Beetle (Desmocerus californicus dimorphus) California. Sacramento County.

(1) *Sacramento Zone.* An area in the city of Sacramento enclosed on the north by the Route 160 Freeway, on the west and southwest by the Western Pacific railroad tracks, and on the east by Commerce Circle and its extension southward to the railroad tracks.

Note:

Map follows:

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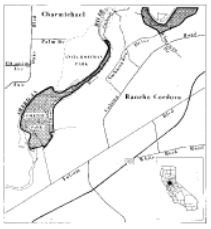
(2) *American River Parkway Zone.* An area of the American River Parkway on the south bank of the American River, bounded on the north by latitude 30°37'30" N, on the west and southwest by Elmanto Drive from its junction with Ambassador Drive to its extension to latitute 38°37'30" N, and on the south and east by Ambassador Drive and its extension north to latitude 38°37'30" N. Goethe Park, and that portion of the American River Parkway northeast of Goethe Park, west of the Jedediah Smith Memorial Bicycle Trail, and north to a line extended eastward from Palm Drive.

Note:

Map follows:



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Bay Checkerspot Butterfly (Euphydryas editha bayensis)

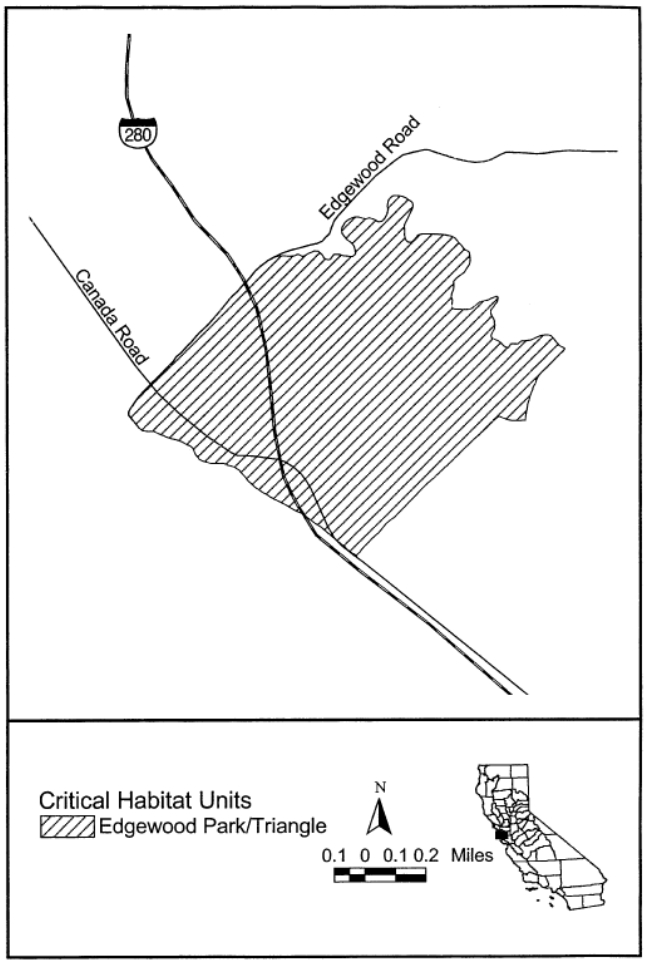
1. Critical habitat units are depicted for San Mateo and Santa Clara Counties, California, on the maps below.

2. Within these areas, the primary constituent elements are those habitat components that are essential for the primary biological needs of foraging, sheltering, breeding, maturation, and dispersal. The primary constituent elements are one or more of the following: stands of *Plantago erecta, Castilleja exserta,* or *Castilleja densiflora;* spring flowers providing nectar; pollinators of the bay checkerspot's food and nectar plants; soils derived from serpentinic rock; and space for dispersal between habitable areas. In addition, the following are each primary constituent elements to be conserved when present in combination with one or more of the primary constituent elements above: areas of open grassland, topography with varied slopes and aspects providing surface conditions with warm and moderate to cool temperatures during sunny spring days, stable holes or cracks in the soil and surface rocks or rock outcrops, wetlands providing moisture during times of spring drought.

3. Within these areas, existing human-constructed features and structures, such as buildings, roads, railroads, urban development, and other human-constructed features not containing any primary constituent elements, are not considered critical habitat and are not included in the designation.

Unit 1 (Edgewood Park/Triangle Unit): San Mateo County, California. Bounded as follows: beginning at the intersection of Edgewood Road and Canada Road; southwesterly, south, and southeasterly along the light-duty extension of Edgewood Road southwest of Canada Road to its intersection with an unnamed intermittent drainage tributary to Upper Crystal Springs Reservoir as shown on the USGS Woodside 7.5 minute quadrangle (1961, photorevised 1968 and 1973); then southwesterly along this drainage to its intersection with I–280; then southeasterly along the eastern edge of pavement of I–280 to a point due southwest of the southernmost corner of Edgewood Natural Preserve (this just south of a substation shown on the Woodside quadrangle, where the State Fish and Game Refuge boundary meets Canada Road and an elevation of 161 m (528 ft) is marked); then due northeast to the southernmost corner of Edgewood Natural Preserve; then northeast along the southeast boundary of Edgewood Natural Preserve to the 159 m (520 ft) elevation contour as shown on the Woodside quadrangle; then northwesterly along this contour to its intersection with Edgewood Road; then southwesterly along the south edge of pavement of Edgewood Road to the starting point.

Unit 2 (Jasper Ridge Unit): San Mateo County, California. Bounded as follows: to the east, north, and west by the 110 m (360 ft) elevation contour around Jasper Ridge (USGS Palo Alto 7.5 minute quadrangle, 1991); and to the south by the current boundary of the Jasper Ridge Biological Reserve, which is largely coincident with the northern boundary of the town of Portola Valley.



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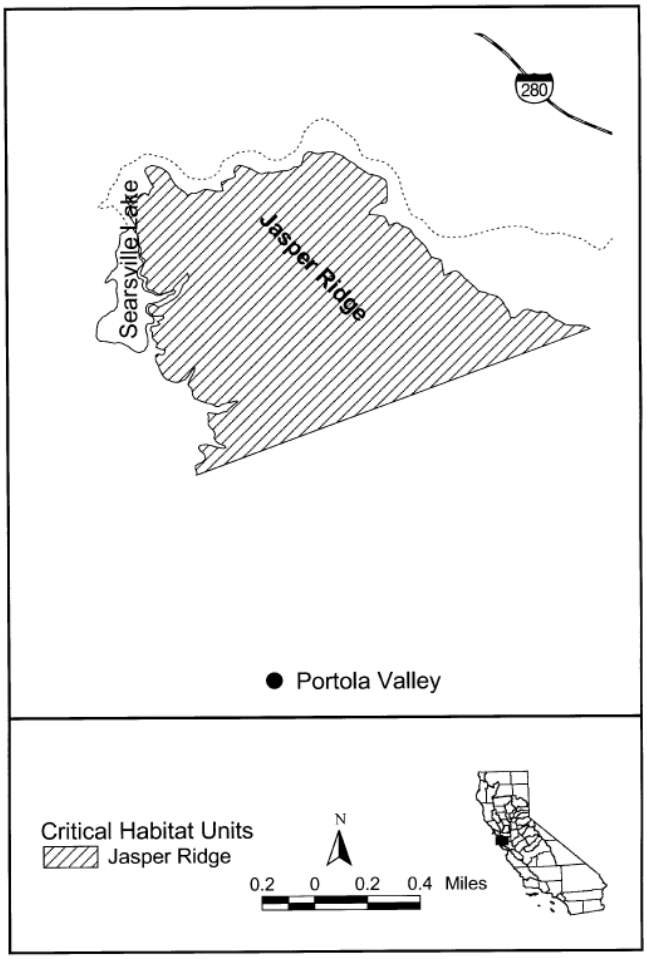

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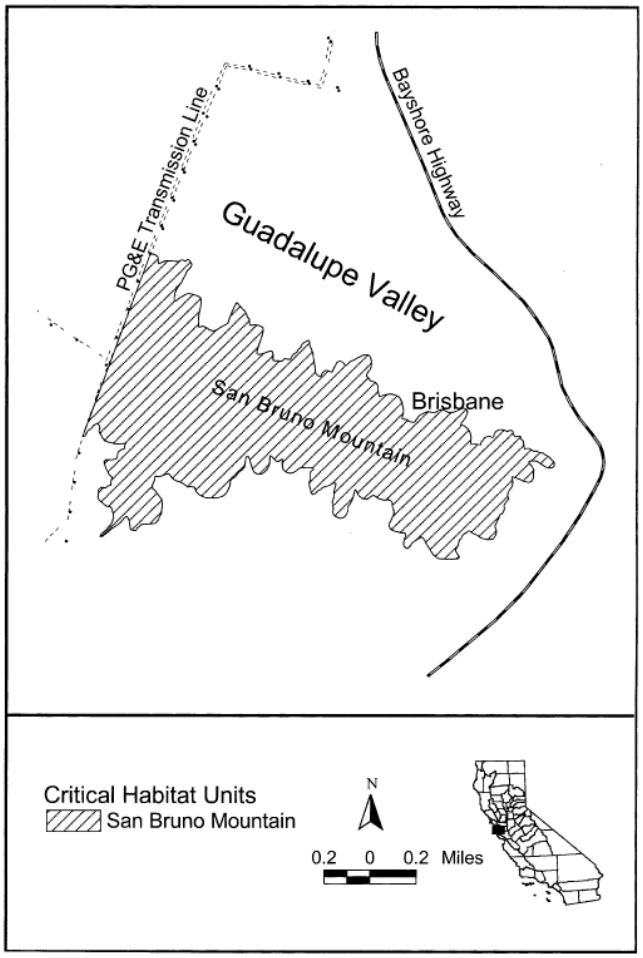
Unit 3 (San Bruno Mountain Unit): San Mateo County, California. All area on San Bruno Mountain above the 152 m (500 ft) elevation contour and east of the western Pacific Gas and Electric transmission corridor (this transmission corridor runs south to southwesterly from the west end of Guadalupe Valley to the South San Francisco/Colma City border) as shown on the USGS San Francisco South 7.5 minute quadrangle, 1956).

Unit 4 (Bear Ranch Unit): Santa Clara County, California. Those portions of section 32, T.9 S., R.4 E. and section 5, T.10 S., R.4 E., westerly of Coyote Reservoir Road—a light-duty road shown but not named on the USGS Gilroy 7.5 minute quadrangle (1955, photorevised 1968 and 1973).

Unit 5 (San Martin Unit): Santa Clara County, California. Bounded on the north by a line running due east-west through a point 305 m (1000 ft) due north of a hilltop marked 239 m (785 ft) in elevation on the USGS Mt. Madonna 7.5 minute quadrangle (1955, photorevised 1968). This hilltop is near latitude 37 degrees 4 minutes 42 seconds north, longitude 121 degrees 38 minutes 19 seconds west (Hayes Lane, not shown on the Mt. Madonna quadrangle, also runs in the vicinity of this hilltop). The north boundary runs as far east as its intersection with the 97 m (320 ft) elevation contour west of Coolidge Avenue as shown on the Mt. Madonna quadrangle. From this point the boundary runs southeasterly, southerly, and westerly following this contour, continuing onto the USGS Gilroy 7.5 minute quadrangle (1955, photorevised 1968 and 1973) and back to its intersection with longitude 121 degrees 37 minutes 30 seconds west (the junction between the two quadrangles). The unit is bounded on the south-southwest by a straight line running from this latter point for a distance of about 2,228 m (7,310 ft) slightly south of west-northwest (bearing 291.5 degrees) to a hilltop labeled 151 m (495 ft) in elevation on the Mt. Madonna quadrangle. The west boundary of the unit runs from this hilltop due north-northeast (bearing 22.5 degrees) to the north boundary.



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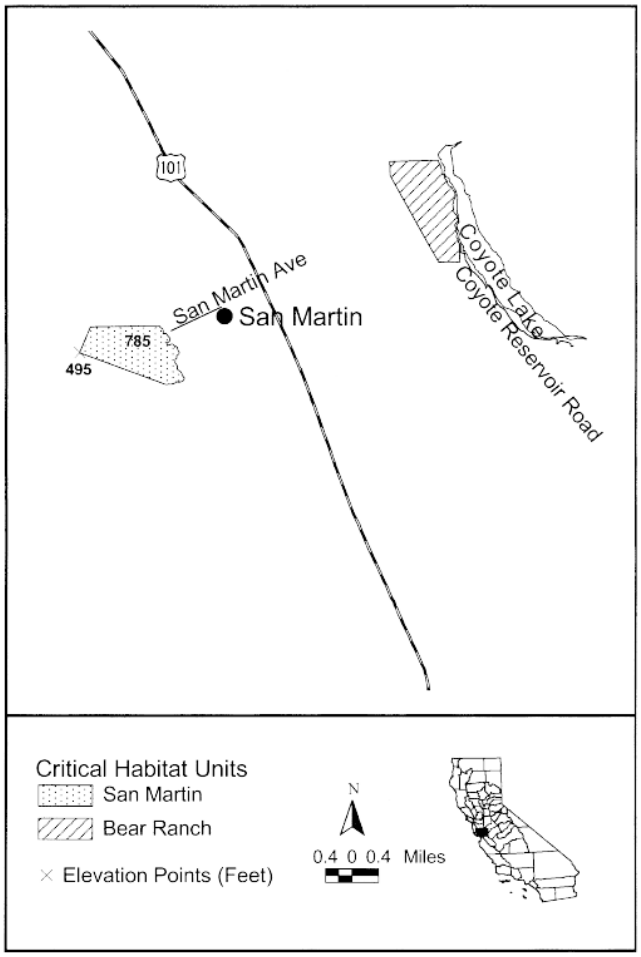

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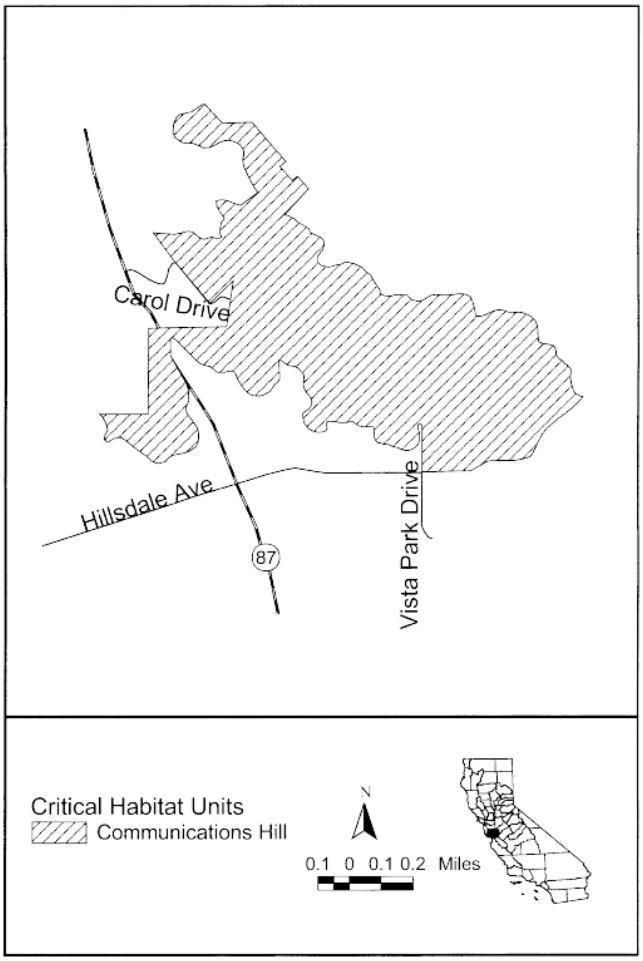
Unit 6 (Communications Hill Unit): Santa Clara County, California. Starting at a point on the 73 m (240 ft) elevation contour due south of the 133 m (435 ft) summit of Communications Hill, the Communications Hill unit is bounded to the south by the 73 m (240 ft) elevation contour as shown on the USGS San Jose East 7.5 minute quadrangle map (1961, photorevised 1980; the hill is not named on this map but the county communications center is shown), as far west as its intersection with Highway 87 (this highway is not shown on the San Jose East quadrangle); then south along Highway 87 (west edge of pavement) to the 55 m (180 ft) elevation contour (all contours in this description are as shown on the San Jose East quadrangle); then south, west, and north along this contour to a point due west of the southernmost point of the southern of the two water tanks on the top of the hill west of Highway 87; then due east for a distance of about 238 m (780 ft) to a point due south of the easternmost point of the eastern of the two water tanks; then due north for about 439 m (1,440 ft) to the intersection with the 85 m (280 ft) elevation contour; then slightly north of east on a straight line to the southern corner of the property of the county communications facility; then on a line to the northern corner of this property; then due southwest to Carol Drive (not named on the San Jose East quadrangle); then slightly north of northwest (bearing 322 degrees) to the 55 m (180 ft) elevation contour; then along this contour easterly and northeasterly until it reaches the second dirt road as shown on the San Jose East quadrangle; then due northeast across the Southern Pacific railroad tracks to the 55 m (180 ft) elevation contour; then northwesterly and northeasterly along this contour to the boundary of Oak Hill Memorial Park cemetery; then following the cemetery boundary southeasterly, skirting a hill summit marked 98 m (323 ft) on the San Jose East quadrangle, to the first 67 m (220 ft) elevation contour southeast of this summit; then due southwest to the 49 m (160 ft) elevation contour immediately west of the railroad tracks; then southeasterly along this contour as shown on the 1961 San Jose East quadrangle to its intersection with Hillsdale Avenue; then southwesterly along Hillsdale Avenue (north edge of pavement) to its intersection with Vista Park Drive (not shown on the San Jose East quadrangle); then due north to the 73 m (240 ft) elevation contour; then westerly along this contour to the starting point.



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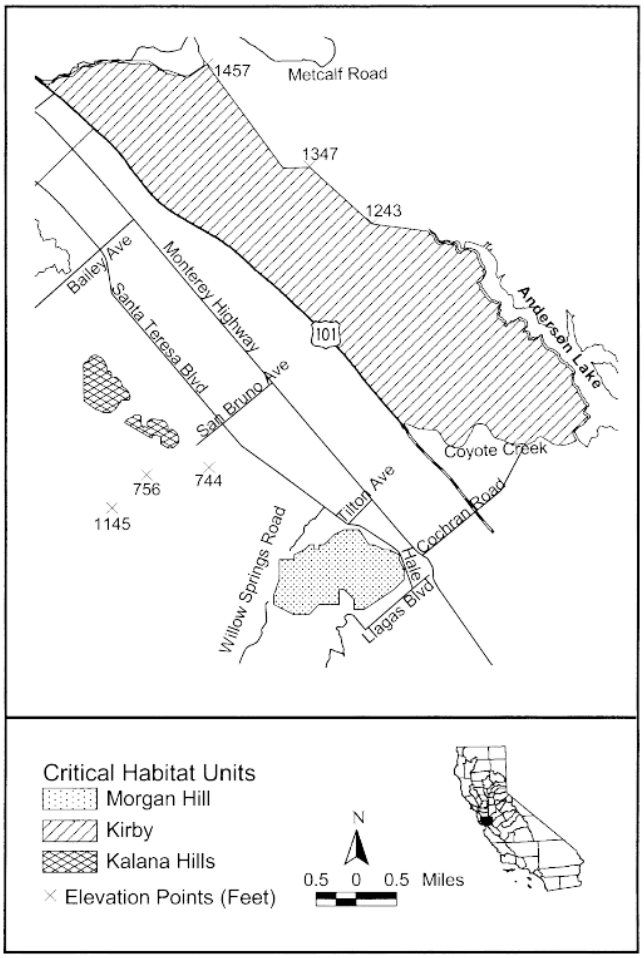
Unit 7 (Kalana Hills Unit): Santa Clara County, California. From USGS 1:24,000 quadrangle map Morgan Hill, lands bounded by the following UTM Zone 10 NAD83 Coordinates (E,N): 612000, 4115810; 612070, 4115810; 612090, 4115790; 612170, 4115750; 612210, 4115700; 612240, 4115640; 612270, 4115590; 612270, 4115490; 612330, 4115490; 612360, 4115460; 612360, 4115370; 612430, 4115370; 612470, 4115360; 612550, 4115280; 612580, 4115190; 612630, 4115150; 612670, 4115110; 612710, 4115060; 612710, 4115050; 612730, 4115000; 612730, 4114960; 612710, 4114910; 612550, 4114910; 612550, 4114880; 612510, 4114840; 612510, 4114820; 612480, 4114790; 612450, 4114740; 612400, 4114700; 612350, 4114660; 612180, 4114660; 612130, 4114700; 612110, 4114700; 612080, 4114720; 612060, 4114720; 611960, 4114790; 611810, 4114900; 611800, 4115630; 611850, 4115680; 611880, 4115680; 611900, 4115700; 611940, 4115770; 612000, 4115810 Including lands bounded by: 612830, 4114610; 612900, 4114610; 612950, 4114590; 612950, 4114520; 612940, 4114510; 612940, 4114500; 612950, 4114490; 612950, 4114470; 612960, 4114460; 612960, 4114410; 612970, 4114410; 612970, 4114380; 612990, 4114360; 613000, 4114360; 613000, 4114370; 613040, 4114370; 613080, 4114360; 613090, 4114360; 613090, 4114410; 613080, 4114410; 613080, 4114480; 613150, 4114530; 613230, 4114530; 613280, 4114510; 613290, 4114510; 613370, 4114510; 613440, 4114470; 613460, 4114440; 613490, 4114400; 613490, 4114340; 613460, 4114300; 613460, 4114290; 613500, 4114290; 613530, 4114320; 613580, 4114320; 613610, 4114300; 613660, 4114260; 613710, 4114160; 613710, 4114090; 613700, 4114040; 613590, 4113950; 613500, 4113940; 613350, 4114030; 613350, 4114160; 613270, 4114210; 613200, 4114200; 613160, 4114140; 612630, 4114460; 612630, 4114470; 612680, 4114530; 612770, 4114560; 612830, 4114610.

Unit 8 (Kirby Unit): Santa Clara County, California. Beginning at the intersection of the intermittent creek draining Metcalf Canyon (Metcalf Canyon on the USGS Morgan Hill 7.5 minute quadrangle,

1955, photorevised 1980) with Highway 101 (current alignment, not shown on Morgan Hill quadrangle), the unit is bounded on the east, southeast, and south by Highway 101 (east edge of pavement, current alignment, not shown on the Morgan Hill quadrangle), south to where it crosses Coyote Creek. From there the boundary runs southeasterly up along Coyote Creek to the Anderson Lake dam; then east-northeasterly up the face of the dam to Anderson Lake (Anderson Reservoir). The unit is bounded on the southeast by Anderson Lake. From the northernmost tip of Anderson Lake (at latitude 37 degrees 12 minutes 15 seconds north) the boundary runs slightly north of west for a distance of about 1,097 m (3,600 ft) to a hilltop marked 379 m (1,243 ft) in elevation on the Morgan Hill quadrangle; then slightly west of northwest for a distance of about 1,707 m (5,600 ft) to a hilltop marked 411 m (1,347 ft) in elevation on the Morgan Hill quadrangle; then nearly due west for a distance of about 500 m (1,640 ft) to a hilltop marked 430 m (1,412 ft) in elevation on the Morgan Hill quadrangle; then north of northwest (bearing 325 degrees) for a distance of about 2,551 m (8,370 ft) to a hilltop marked 444 m (1,457 ft) in elevation on the Morgan Hill quadrangle; then on a line running from this hilltop south of west-southwest (bearing 237 degrees) to the intersection of the Metcalf Canyon drainage with the 354 m (1,160 ft) elevation contour as shown on the Morgan Hill quadrangle. The north boundary of the unit then continues westerly down the Metcalf Canyon drainage to the starting point.

Unit 9 (Morgan Hill Unit): Santa Clara County, California. From USGS 1:24,000 quadrangle map Morgan Hill, lands bounded by the following UTM Zone 10 NAD83 Coordinates (E,N): 617000, 4112300; 617300, 4112300; 617500, 4112000; 617600, 4112000; 617800, 4111900; 617900, 4111900; 618100, 4111800; 618100, 4111700; 618200, 4111500; 618200, 4111300; 618000, 4111100; 617700, 4110900; 617400, 4110700; 617200, 4110700; 617200, 4110900; 617000, 4111100; 616900, 4111100; 616900, 4110800; 616500, 4110800; 616300, 4110600; 616000, 4110600; 615600, 4110800; 615600, 4111000; 615700, 4111300; 615700, 4111700; 616000, 4111700; 616000, 4111800; 616200, 4111900; 616300, 4112000; 616400, 4112000; 616400, 4111900; 616500, 4111900; 616500, 4112000; 616600, 4112000; 616800, 4112200; 617000, 4112300.



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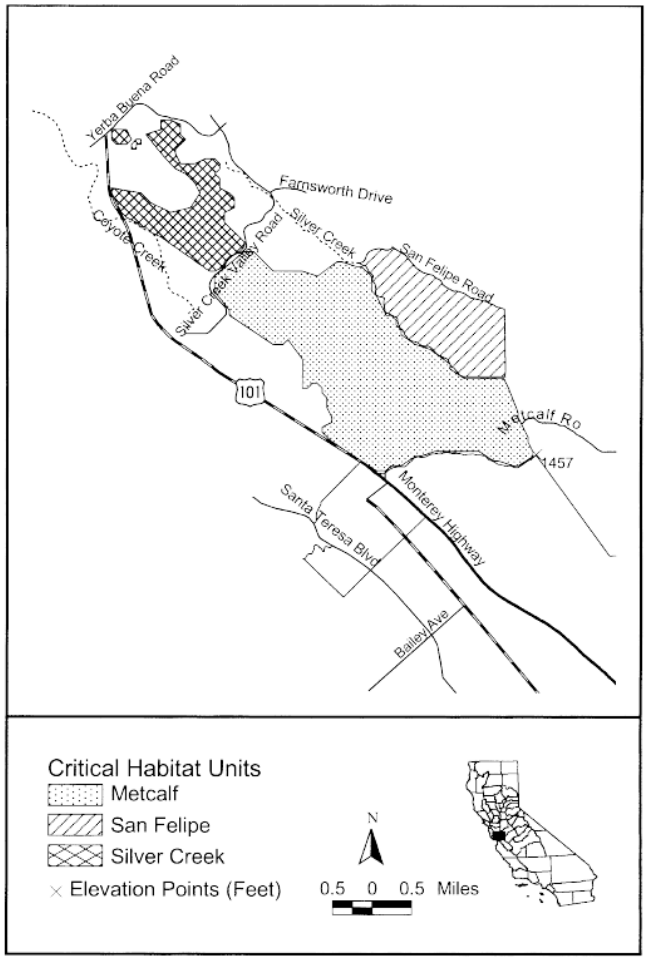
Unit 10 (Metcalf Unit): Santa Clara County, California. From USGS 1:24,000 quadrangle maps Lick Observatory, Morgan Hill, San Jose East, and Santa Teresa Hills, lands bounded by the following zone 10 NAD83 Coordinates (E,N): 608300, 4125800; 608500, 4125800; 608900, 4125400; 609500, 4125400; 609800, 4125300; 610200, 4125600; 610300, 4125600; 610600, 4125500; 610700, 4125500; 610900, 4125300; 610900, 4125000; 611000, 4124900; 611200, 4124500; 611300, 4124500; 611400, 4124400; 611400, 4124300; 611500, 4124200; 611500, 4124100; 611800, 4123900; 612100, 4123800; 612500, 4123500; 612500, 4123400; 612800, 4123200; 613600, 4123200; 613700, 4123000; 613900, 4122500; 613900, 4122400; 614100, 4122000; 614100, 4121900; 614200, 4121700; 614200, 4121600; 613900, 4121400; 613800, 4121400; 613500, 4121500; 613400, 4121500; 613100, 4121700; 612200, 4121700; 611900, 4121600; 611800, 4121600; 611500, 4121400; 611300, 4121400; 611200, 4121300; 611000, 4121300; 610700, 4121500; 610400, 4121700; 610100, 4121900; 609900, 4122100; 609900, 4122200; 610100, 4122300; 610100, 4122400; 610000, 4122600; 610000, 4122800; 609900, 4122900; 609900, 4123000; 609800, 4123100; 609700, 4123100; 609600, 4123000; 609500, 4123000; 609500, 4123600; 609200, 4124000; 609100, 4123900; 608900, 4123900; 608000, 4124500; 608000, 4124600; 607700, 4125000; 607700, 4125300; 608300, 4125800.

Unit 11 (San Felipe Unit): Santa Clara County, California. The east boundary of the San Felipe critical habitat unit begins at the 440 m (1,445 ft) hilltop identified in the northeast boundary of the Metcalf unit (this peak is labeled on the USGS Morgan Hill 7.5 minute quadrangle (1955, photorevised 1980), near latitude 37 degrees 15 minutes north, longitude 121 degrees 43 minutes west); and proceeds from

that hilltop due north to San Felipe Road at an elevation of about 296 m (970 ft) (USGS Lick Observatory 7.5 minute quadrangle, 1955, photorevised 1968); then west-northwesterly along San Felipe Road (southwest edge of pavement) for a distance of about 2.7 km (1.7 mi) to Silver Creek Road (sic). The north boundary is formed by Silver Creek Road (south edge of pavement) from San Felipe Road to Silver Creek (the creek crossing is on the USGS San Jose East 7.5 minute quadrangle, 1961, photorevised 1980). The west boundary, which abuts the Metcalf unit, runs from Silver Creek Road southeasterly along Silver Creek (mostly on Lick Observatory quadrangle). The south boundary also abuts the Metcalf unit, and runs from Silver Creek (Morgan Hill quadrangle) due east to the starting point.

Unit 12 (Silver Creek Hills Unit): Santa Clara County, California. From USGS 1:24,000 quadrangle maps San Jose East, lands bounded by the following UTM Zone 10 NAD83 Coordinates (E,N): 606600, 4128500; 606800, 4128500; 607000, 4128400; 607000, 4128200; 607100, 4128100; 606900, 4127900; 606900, 4127800; 607000, 4127600; 607300, 4127600; 607500, 4127700; 607700, 4127700; 607800, 4127600; 607800, 4127500; 607700, 4127400; 607800, 4127300; 607800, 4127100; 608000, 4127000; 608100, 4126900; 608100, 4126700; 607900, 4126600; 607900, 4126400; 608300, 4126000; 608300, 4125900; 608200, 4125800; 608000, 4125700; 607900, 4125600; 607900, 4125500; 607700, 4125400; 607600, 4125400; 606600, 4126100; 606400, 4126200; 606300, 4126300; 606200, 4126300; 606100, 4126400; 605900, 4126500; 605800, 4126600; 605600, 4127000; 605600, 4127100; 606200, 4127000; 606400, 4126800; 606800, 4126600; 607200, 4126700; 607400, 4127000; 607300, 4127200; 607100, 4127400; 606900, 4127500; 606700, 4127700; 606300, 4128200; 606600, 4128300; 606600, 4128500, including lands bounded by: 605600, 4128300; 605900, 4128300; 606000, 4128100; 605900, 4128000; 605700, 4128000; 605600, 4128100; 605600, 4128300 and lands bounded by: 606200, 4128100; 606200, 4128000; 606100, 4128000; 606100, 4127900; 606000, 4127900; 606000, 4128000; 606100, 4128100; 606200, 4128100.



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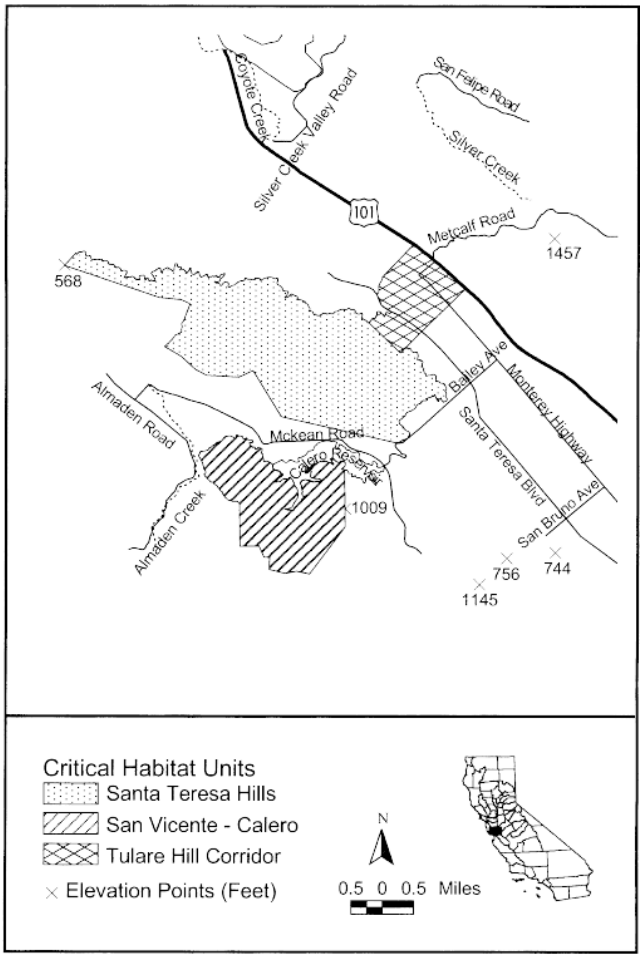
Unit 13 (San Vicente-Calero Unit): Santa Clara County, California. Bounded on the north and northwest by Calero Reservoir, by the canal and siphon running westerly of the main reservoir dam (dam on the Arroyo Calero), and by the city boundary of the City of San Jose, which follows the canal at an elevation of roughly 152 m (500 ft), as far as its intersection with Chilanian Gulch. The boundary then runs generally southeast following Chilanian Gulch to its intersection with the R.1 E./R.2 E. (Mount Diablo meridian/base line) dividing line, then due south to the Calero County Park border. The park boundary forms the rest of the western, southern, and southeastern border of the unit. The eastern border of the unit is formed by a line running due north from the southern Calero County Park boundary through a hilltop elevation labeled 307 m (1,009 ft) on the USGS Santa Teresa Hills 7.5 minute quadrangle (1953, photorevised 1980) to Calero Reservoir. This hilltop is near latitude 37 degrees 10 minutes 15 seconds north, longitude 121 degrees 46 minutes 15 seconds west.

Unit 14 (Santa Teresa Hills Unit): Santa Clara County, California. The east and southeast boundary runs as follows, beginning at the westernmost corner of the Tulare Hill Corridor unit: due southeast and then northeast along the Tulare Hill Corridor unit boundary, to the 85 m (280 ft) elevation contour (USGS Santa Teresa Hills 7.5 minute quadrangle, 1953, photorevised 1980); then southeasterly, south, and southwesterly along this elevation contour (continues onto USGS Morgan Hill 7.5 minute quadrangle, 1955, photorevised 1980, and back) to its intersection with Bailey Avenue. The south, southwest, and western border of the unit then continues from this point, along a line running west-southwesterly (bearing 248 degrees) for a distance of about 325 m (1,065 ft) to a bench mark north of Bailey Avenue labeled 108 m (354 ft) in elevation on the Santa Teresa Hills quadrangle; then north of east (bearing 284 degrees) for a distance of about 3,030 m (9,940 ft) to the intersection of a land grant

boundary with a transmission line shown on the 1980 photorevised Santa Teresa Hills quadrangle at an elevation of about 152 m (500 ft); then north-northwesterly along this land grant line to the intersection with Fortini Road; then generally west-southwest and west along Fortini Road to the intersection with San Vicente Avenue (these road names do not appear on the Santa Teresa quadrangle); then westerly along San Vicente Avenue to where it turns south south-west; then continuing westerly and northwesterly from this point along a land grant boundary shown on the Santa Teresa Hills quadrangle to its intersection with both Henwood Drive (road name does not appear on the Santa Teresa quadrangle) and an unnamed intermittent drainage (tributary to Arroyo Calero); then northeasterly and northerly up this drainage as marked on the Santa Teresa Hills quadrangle to the 183 m (600 ft) elevation contour; then due north-northeast for a distance of about 424 m (1,390 ft) to the first intersection with the 280 m (920 ft) elevation contour; then west-northwest for a distance of about 265 m (870 ft) to a hilltop over 280 m (920 ft) in elevation, then slightly north of west (bearing 276 degrees) for a distance of about 543 m (1,780 ft) to the end of a dirt road as marked on the 1980 photorevised Santa Teresa Hills quadrangle; then slightly south of west-northwest (bearing 290 degrees) for a distance of about 2,551 m (8,370 ft) to a hilltop marked 173 m (568 ft) in elevation on the Santa Teresa Hills quadrangle; then due northeast to the 73 m (240 ft) elevation contour as shown on the Santa Teresa Hills quadrangle. The northern boundary of the unit is formed by the 73 m (240 ft) elevation contour as shown on the Santa Teresa Hills quadrangle.

Unit 15 (Tulare Hill Corridor Unit): Santa Clara County, California. Bounded on the northeast by the most northeasterly edge of pavement of Highway 101 (i.e., the highway itself is included, and the unit abuts the Kirby and Metcalf units). Bounded on the northwest, west, and southwest by a line extending due southwest from the northeast boundary to the corner of Cheltenham Way and Coburn Court, then southwesterly along Cheltenham Way from Coburn Court to the intersection with Santa Teresa Boulevard, then southeasterly along Santa Teresa Boulevard to the 73 m (240 ft) elevation contour as shown on the USGS Santa Teresa Hills 7.5 minute quadrangle (1953, photorevised 1980), then southwesterly along this contour to the border of Santa Teresa County Park, then along a line due southeast to the southeast border of the unit. Bounded on the southeast by a line running due northeast-southwest through the southeastern-most point of the 85 m (280 ft) contour of Tulare Hill, as shown on the Morgan Hill quadrangle.



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Oregon Silverspot Butterfly (Speyeria zerene hippolyta)

Oregon. Lane County T. 16 S., R. 12 W. Those portions of section 15 and of the south half of section 10 which are west of a line parallel to, and 1500 feet west of, the eastern section boundaries of sections 10 and 15.

Note:

Map follows:

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Constituent biological elements essential to the continued existence of the Oregon silverspot butterfly within the Critical Habitat include the larval foodplant (*Viola adunca*), grasses and forbs in which the larvae find shelter, the composite plants from which the adults obtain nectar, and the spruce woods in which the adults find shelter.

Palos Verdes Blue Butterfly (Glaucopsyche lygdamus palosverdesensis)

California. Los Angeles County.

1. Agua Amarga Canyon Zone. Palos Verdes Estates. A square area of land 0.4×0.4 kilometers located at the southeast corner of the southernmost corporate boundary of Palos Verdes Estates.

2. Frank Hesse Park Zone. Rancho Palos Verdes. An area enclosed by Hawthorne Boulevard, Locklenna Lane, and Verde Drive.

Note:

Map follows:

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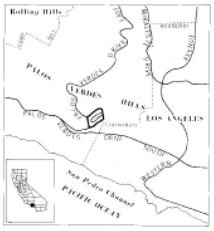
3. Palos Verdes Drive Zone. Rancho Palos Verdes. The Switchback area of Palos Verdes Drive East, bounded by a line connecting the two eastern curves, a line parallel to and 0.3 kilometers southwest of this line, and the upper and lower portions of Palos Verdes Drive East.

Note:

Map follows:



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Within these Critical Habitat areas, the known biological constituent elements essential to the conservation of this species are colonies of the larval foodplant, *Astragalus trichopodus leucopsis.*

Quino Checkerspot Butterfly (Euphydryas editha quino).

(1) Critical habitat units are depicted for Riverside and San Diego Counties, California, on the maps below.

(2) Primary constituent elements occur in undeveloped areas that support various types of open-canopy woody and herbaceous plant communities. They include, but are not limited to, plant communities that provide populations of host plant and nectar sources for the Quino checkerspot butterfly. The primary constituent elements for the Quino checkerspot butterfly consist of:

(i) Grassland and open-canopy woody plant communities, such as coastal sage scrub, open red shank chaparral, and open juniper woodland, with host plants or nectar plants;

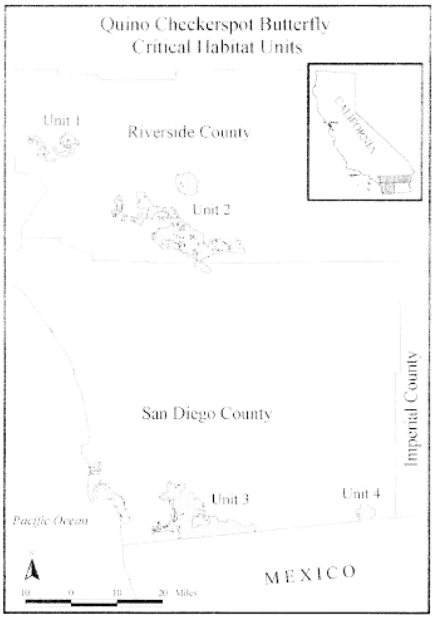
(ii) Undeveloped areas containing grassland or open-canopy woody plant communities, within and between habitat patches, utilized for Quino checkerspot butterfly mating, basking, and movement; or

(iii) Prominent topographic features, such as hills and/or ridges, with an open woody or herbaceous canopy at the top. Prominence should be determined relative to other local topographic features.

(3) Critical habitat does not include non-Federal lands covered by a legally operative incidental take permit for which the Quino checkerspot butterfly is a covered species and has take authorization, issued under section 10(a)(1)(B) of the Act on or before April 15, 2002.

(4) Existing features and structures within the boundaries of mapped critical habitat units, such as buildings, paved or improved roads, aqueducts, railroads, airports, other paved areas, lawns, large areas of closed canopy woody vegetation such as chaparral and cypress, active agricultural fields, and other urban landscaped areas are not and do not contain constituent elements. Federal actions limited to those areas, therefore, would not trigger a section 7 consultation, unless they affect the species and/or primary constituent elements in adjacent critical habitat.

(5) Critical Habitat Map Units—Index Map follows:



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(6) Map Unit 1: Lake Mathews, Riverside County, California.

(i) Lake Mathews/Estelle Mountain Reserve Subunit. From 1:24,000 USGS quadrangle maps Alberhill and Lake Mathews, California, lands bounded by the following Universal Transverse Mercator (UTM) North American Datum of 1927 (NAD27) coordinates (E, N): 461000, 3738300; 461000, 3738100; 461100, 3738100; 461100, 3737900; 461200, 3737900; 461200, 3737700; 461300, 3737700; 461300, 3737500; 461500, 3737500; 461500, 3737400; 461600, 3737400; 461600, 3737200; 462000, 3737200; 462000, 3737100; 462100, 3737100; 462100, 3737000; 462300, 3737000; 462300, 3737100; 462400, 3737100; 462400, 3737000; 462600, 3737000; 462600, 3736900; 462500, 3736900; 462500, 3736800; 462300, 3736800; 462300, 3736600; 462400, 3736600; 462400, 3736300; 461500, 3736300; 461500, 3735500; 461200, 3735500; 461200, 3735300; 461100, 3735300; 461100, 3735400; 460800, 3735400; 460800, 3735300; 460700, 3735300; 460700, 3735000; 463100, 3735000; 463100, 3734400; 464000, 3734400; 464000, 3735000; 464700, 3735000; 464700, 3733500; 461600, 3733500; 461600, 3734300; 460000, 3734300; 460000, 3734700; 459200, 3734700; 459200, 3735500; 458400, 3735500; 458400, 3736600; 460100, 3736600; 460100, 3738200; 460300, 3738200; 460300, 3738700; 460400, 3738700; 460400, 3739100; 460100, 3739100; 460100, 3738700; 459800, 3738700; 459800, 3739100; 458400, 3739100; 458400, 3740500; 458500, 3740500; 458500, 3740700; 458200, 3740700; 458200, 3740300; 457700, 3740300; 457700, 3740600; 458100, 3740600; 458100, 3741100; 457300, 3741100; 457300, 3741500; 457000, 3741500; 457000, 3741600; 456800, 3741600; 456800, 3740800; 456700, 3740800; 456700, 3740900; 456600, 3740900; 456600, 3741000; 456500, 3741000; 456500, 3741100; 456400, 3741100; 456400, 3741200; 456300, 3741200; 456300, 3741300; 456200, 3741300; 456200, 3741400; 456100, 3741400; 456100, 3741500; 456000, 3741500; 456000, 3741600; 455900, 3741600; 455900, 3741700; 455800, 3741700; 455800, 3741800; 455700, 3741800; 455700, 3741900; 455600, 3741900; 455600, 3742000; 455500, 3742000; 455500, 3742100; 455400, 3742100; 455400, 3742200; 455300, 3742200; 455300, 3743100; 456800, 3743100; 456800, 3742300; 457300, 3742300; 457300, 3742700; 458000, 3742700; 458000, 3742500; 458400, 3742500; 458400, 3742200; 458600, 3742200; 458600, 3742000; 459300, 3742000; 459300, 3740600; 459800, 3740600; 459800, 3740200; 460100, 3740200; 460100, 3740600; 460800, 3740600; 460800, 3739000; 461400, 3739000; 461400, 3738800; 461200, 3738800; 461200, 3738600; 461300, 3738600; 461300, 3738400; 461400, 3738400; 461400, 3738300; returning to 461000, 3738300; land bounded by 455300, 3741800; 455400, 3741800; 455400, 3741700; 455500, 3741700; 455500, 3741600; 455600, 3741600; 455600, 3741500; 455700, 3741500; 455700, 3741400; 455800, 3741400; 455800, 3741300; 455900, 3741300; 455900, 3741200; 456000, 3741200; 456000, 3741100; 456100, 3741100; 456100, 3741000; 456200, 3741000; 456200, 3740900; 456300, 3740900; 456300, 3740800; 456400, 3740800; 456400, 3740700; 456500, 3740700; 456500, 3740600; 456600, 3740600; 456600, 3740500; 456700, 3740500; 456700, 3740100; 456200, 3740100; 456200, 3740000; 455600, 3740000; 455600, 3740200; 455500, 3740200; 455500, 3740400; 455400, 3740400; 455400, 3740700; 455300, 3740700; 455300, 3741100; 455200, 3741100; 455200, 3741500; 455300, 3741500; returning to 455300, 3741800; and land bounded by 458400, 3738200; 459300, 3738200; 459300, 3737500; 458400, 3737500; 458400, 3738200; excluding land bounded by 461000, 3738300; 461000, 3738400; 461100, 3738400; 461100, 3738600; 460700, 3738600; 460700, 3738500; 460600, 3738500; 460600, 3738200; 460900, 3738200; 460900, 3738300; 461000, 3738300; land bounded by 456400, 3741900; 456400, 3741800; 456600, 3741800; 456600, 3741900; 456400, 3741900; land bounded by 460300, 3736600; 460300, 3736400; 460500, 3736400; 460500, 3736200; 460800, 3736200; 460800, 3736600; 460300, 3736600; and land bounded by 460200, 3736100; 460200, 3736000; 460100, 3736000; 460100, 3735800; 460300, 3735800; 460300, 3735700; 460600, 3735700; 460600, 3736100; 460200, 3736100.

(ii) Harford Springs Subunit. From 1:24,000 USGS quadrangle maps Steele Peak and Lake Mathews, California, lands bounded by the following UTM NAD27 coordinates (E, N): 468200, 3743800; 469400, 3743800; 469400, 3743200; 469500, 3743200; 469500, 3743100; 469700, 3743100; 469700, 3743000; 470000, 3743000; 470000, 3743100; 470100, 3743100; 470100, 3743000; 470300, 3743000; 470300, 3742800; 470400, 3742800; 470400, 3742600; 470700, 3742600; 470700, 3742500; 470900, 3742500; 470900, 3742400; 471000, 3742400; 471000, 3742300; 471100, 3742300; 471100, 3742200; 471200, 3742200; 471200, 3741800; 471400, 3741800; 471400, 3741700; 471600, 3741700; 471600, 3741600; 471700, 3741600; 471700, 3741500; 471800, 3741500; 471800, 3741400; 471900, 3741400; 471900, 3740900; 472100, 3740900; 472100, 3740800; 472200, 3740800; 472200, 3740700; 472400,

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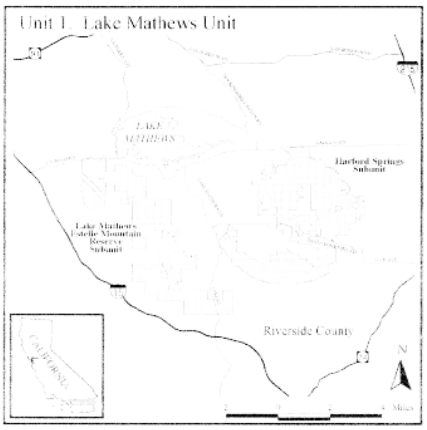
(iii) Map Unit 1 follows:



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(7) Unit 2: Southwest Riverside County, California.

(i) From USGS 1:24,000 quadrangle maps Romoland, Winchester, Hemet, Blackburn Canyon, Murrieta, Bachelor Mountain, Sage, Cahuilla Mountain, Anza, Pechanga, Vail Lake, Aguanga, and Beauty Mountain, California.

(ii) Brown Canyon Subunit: In the vicinity of Hemet and Brown Canyon, land bounded by the following UTM NAD27 coordinates (E, N): 511000, 3730000; 511100, 3730000; 511100, 3729900; 511300, 3729900; 511300, 3729800; 511400, 3729800; 511400, 3729700; 511500, 3729700; 511500, 3729600; 511900, 3729600; 511900, 3729500; 512200, 3729500; 512200, 3729400; 512400, 3729400; 512400, 3729300; 512500, 3729300; 512500, 3729200; 512600, 3729200; 512600, 3729100; 512800, 3729100; 512800, 3729000; 512900, 3729000; 512900, 3728900; 513100, 3728900; 513100, 3728800; 513200, 3728800; 513200, 3728700; 513400, 3728700; 513400, 3728600; 513500, 3728600; 513500, 3728400; 513600, 3728400; 513600, 3728300; 513700, 3728300; 513700, 3728200; 513800, 3728200; 513800, 3728000; 513900, 3728000; 513900, 3727600; 514000, 3727600; 514000, 3727400; 514100, 3727400; 514100, 3727500; 514200, 3727500; 514200, 3727400; 514300, 3727400; 514300, 3727300; 514500, 3727300; 514500, 3727200; 514600, 3727200; 514600, 3726800; 514500, 3726800; 514500, 3726500; 514400, 3726500; 514400, 3726300; 514300, 3726300; 514300, 3726100; 514200, 3726100; 514200, 3725300; 514300, 3725300; 514300, 3725100; 514200, 3725100; 514200, 3724900; 514300, 3724900; 514300, 3724600; 514200, 3724600; 514200, 3724400; 514300, 3724400; 514300, 3724300; 514400, 3724300; 514400, 3724000; 514500, 3724000; 514500, 3723900; 514600, 3723900; 514600, 3723800; 514500, 3723800; 514500, 3723600; 514400, 3723600; 514400, 3723400; 514300, 3723400; 514300, 3723300; 514200, 3723300; 514200, 3723100; 514300, 3723100; 514300, 3722800; 514100, 3722800; 514100, 3722700; 514000, 3722700; 514000, 3722600; 513800, 3722600; 513800, 3722500; 513700, 3722500; 513700, 3722400; 513400, 3722400; 513400, 3722300; 513200, 3722300; 513200, 3722200; 513000, 3722200; 513000, 3722100; 512600, 3722100; 512600, 3722000; 512300, 3722000; 512300, 3721900; 510500, 3721900; 510500, 3722000; 510200, 3722000; 510200, 3722100; 509900, 3722100; 509900, 3722400; 509800, 3722400; 509800, 3722500; 509600, 3722500; 509600, 3722300; 509400, 3722300; 509400, 3722400; 509200, 3722400; 509200, 3722500; 509000, 3722500; 509000, 3722600; 508900, 3722600; 508900, 3722700; 508700, 3722700; 508700, 3722800; 508600, 3722800; 508600, 3722900; 508400, 3722900; 508400, 3723000; 508300, 3723000; 508300, 3723100; 508200, 3723100; 508200, 3723200; 508100, 3723200; 508100, 3723300; 508000, 3723300; 508000, 3723400; 507900, 3723400; 507900, 3723500; 507800, 3723500; 507800, 3723600; 507700, 3723600; 507700, 3723800; 507600, 3723800; 507600, 3723900; 507500, 3723900; 507500, 3724000; 507800, 3724000; 507800, 3724300; 507400, 3724300; 507400, 3724200; 507300, 3724200; 507300, 3724400; 507200, 3724400; 507200, 3724600; 507100, 3724600; 507100, 3724800; 507000, 3724800; 507000, 3725000; 506900, 3725000; 506900, 3725400; 506800, 3725400; 506800, 3726000; 506700, 3726000; 506700, 3728000; 506800, 3728000; 506800, 3728300; 506900, 3728300; 506900, 3728700; 507000, 3728700; 507000, 3729000; 507100, 3729000; 507100, 3729200; 507200, 3729200; 507200, 3729400; 507500, 3729400; 507500, 3729300; 507300, 3729300; 507300, 3729100; 507400, 3729100; 507400, 3729000; 507600, 3729000; 507600, 3728900; 507700, 3728900; 507700, 3729200; 507800, 3729200; 507800, 3729300; 507900, 3729300; 507900, 3729200; 508100, 3729200; 508100, 3729100; 508500, 3729100; 508500, 3729000; 508700, 3729000; 508700, 3728900; 509200, 3728900; 509200, 3729000; 509300, 3729000; 509300, 3729200; 509400, 3729200; 509400, 3729300; 509500, 3729300; 509500, 3729400; 509600, 3729400; 509600, 3729500; 509800, 3729500; 509800, 3729600; 510000, 3729600; 510000, 3729700; 510100, 3729700; 510100, 3729800; 510400, 3729800; 510400, 3729900; 511000, 3729900; returning to 511000, 3730000; and

(iii) Temecula/Murrieta/Oak Grove Subunit: Land bounded by 507500, 3729300; 507600, 3729300; 507600, 3729200; 507500, 3729200; 507500, 3729300; excluding land bounded by 508400, 3726500; 508400, 3726400; 508300, 3726400; 508300, 3726200; 508600, 3726200; 508600, 3726500; 508400, 3726500; land bounded by 508500, 3726000; 508500, 3725900; 508300, 3725900; 508300, 3725700; 508400, 3725700; 508400, 3725600; 508800, 3725600; 508800, 3725900; 508700, 3725900; 508700, 3726000; 508500, 3726000; and land bounded by 509100, 3725100; 509100, 3724900; 509200, 3724900; 509200, 3724800; 509400, 3724800; 509400, 3725100; 509100, 3725100. In the vicinity of Lake Skinner, Wilson Valley, and Oak Grove, land bounded by the following UTM NAD27 coordinates (E, N): 513500, 3702800; 513200, 3702800; 513200, 3702700; 513000, 3702700; 513000, 3702800; 512900, 3702800; 512900, 3702700; 512700, 3702700; 512700, 3702500; 512800, 3702500; 512800, 3702400; 513000, 3702400; 513000, 3702500; 513100, 3702500; 513100, 3702400; 513300, 3702400; 513300, 3702200; 513200, 3702200; 513200, 3702100; 513100, 3702100; 513100, 3702000; 513200, 3702000; 513200, 3701800; 513100, 3701800; 513100, 3701300; 511700, 3701300; 511700, 3700500; 511000, 3700500; 511000, 3701100; 510900, 3701100; 510900, 3701200; 510800, 3701200; 510800, 3701300; 510700, 3701300; 510700, 3701400; 510500, 3701400; 510500, 3701600; 510900, 3701600; 510900, 3701800; 510700, 3701800; 510700, 3701900; 510100, 3701900; 510100, 3701800; 510000, 3701800; 510000, 3701700; 509700, 3701700; 509700, 3701600; 509600, 3701600; 509600, 3701700; 509500, 3701700; 509500, 3701800; 509400, 3701800; 509400, 3701900; 509300, 3701900; 509300, 3702300; 508700, 3702300; 508700, 3702400; 508500, 3702400; 508500, 3702500; 508400, 3702500; 508400, 3702600; 508300, 3702600; 508300, 3702900; 508400, 3702900; 508400, 3702700; 508700, 3702700; 508700, 3702800; 508800, 3702800; 508800, 3702700; 508900, 3702700; 508900, 3703000; 508700, 3703000; 508700, 3703100; 508300, 3703100; 508300, 3703200; 507900, 3703200; 507900, 3702900; 508100, 3702900; 508100, 3702800; 508000, 3702800; 508000, 3702700; 507700, 3702700; 507700, 3702900; 507600, 3702900; 507600, 3703000; 506600, 3703000; 506600, 3703100; 506400, 3703100; 506400, 3703600; 506300, 3703600; 506300, 3703800; 506100, 3703800; 506100, 3703700; 506000, 3703700; 506000, 3703800; 505500, 3703800; 505500, 3703700; 505000, 3703700; 505000, 3703800; 504900, 3703800; 504900, 3703900; 504600, 3703900; 504600, 3703800; 504400, 3703800; 504400, 3703900; 504300, 3703900; 504300, 3704200; 504200, 3704200; 504200, 3704800; 504100, 3704800; 504100, 3704900; 504200, 3704900; 504200, 3705000; 504500, 3705000; 504500, 3705100; 504600, 3705100; 504600, 3705200; 504700, 3705200; 504700, 3705400; 505100, 3705400; 505100, 3705500; 505300, 3705500; 505300, 3705600; 505400, 3705600; 505400, 3705700; 505700, 3705700; 505700, 3705500; 505800, 3705500; 505800, 3705100; 505900, 3705100; 505900, 3705000; 506400, 3705000; 506400, 3705900; 506300, 3705900; 506300, 3706000; 506100, 3706000; 506100, 3706200; 505900, 3706200; 505900, 3706300; 505800, 3706300; 505800, 3706400; 505500, 3706400; 505500, 3706300; 505400, 3706300; 505400, 3706200; 505300, 3706200; 505300, 3706100; 505200, 3706100; 505200, 3706000; 505100, 3706000; 505100, 3705900; 504900, 3705900; 504900, 3706000; 504800, 3706000; 504800, 3706400; 504600, 3706400; 504600, 3706300; 504500, 3706300; 504500, 3706200; 504400, 3706200; 504400, 3706100; 504300, 3706100; 504300, 3706000; 504200, 3706000; 504200, 3705900; 504000, 3705900; 504000, 3706000; 503800, 3706000; 503800, 3705900; 503500, 3705900; 503500, 3706000; 503400, 3706000; 503400, 3706100; 503000, 3706100; 503000, 3706200; 503100, 3706200; 503100, 3706400; 502300, 3706400; 502300, 3706300; 502100, 3706300; 502100, 3705900; 502000, 3705900; 502000, 3705600; 501900, 3705600; 501900, 3705300; 501800, 3705300; 501800, 3704800; 501900, 3704800; 501900, 3704700; 501700, 3704700; 501700, 3704500; 502300, 3704500; 502300, 3704700; 502400, 3704700; 502400, 3705000; 502500, 3705000; 502500, 3705100; 502600, 3705100; 502600, 3704900; 502700, 3704900; 502700, 3704700; 503000, 3704700; 503000, 3704600; 503200, 3704600; 503200, 3704500; 503400, 3704500; 503400, 3704400; 503600, 3704400; 503600, 3704100; 503700, 3704100; 503700, 3703600; 503800, 3703600; 503800, 3703500; 503900, 3703500; 503900, 3703400; 504000, 3703400; 504000, 3703300; 504300, 3703300; 504300, 3703200; 504100, 3703200; 504100, 3703100; 504000, 3703100; 504000, 3703000; 503800, 3703000; 503800, 3702900; 503600, 3702900; 503600, 3702800; 503100, 3702800; 503100, 3702700; 503000, 3702700; 503000, 3702800; 502600, 3702800; 502600, 3702900; 502400, 3702900; 502400, 3703000; 502300,

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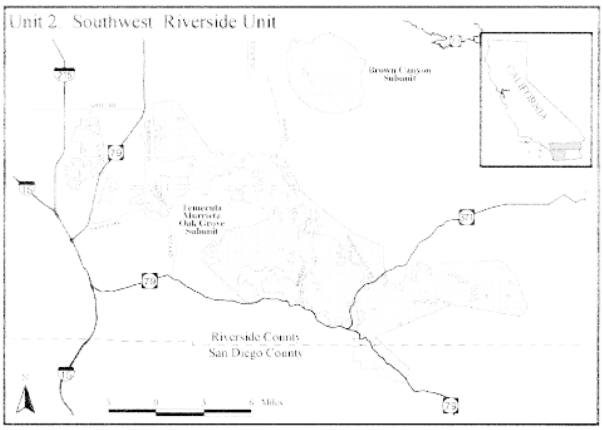
In the vicinity of Murrieta, lands bounded by the following UTM NAD27 coordinates (E, N): 486700, 3722000; 487000, 3722000; 487000, 3721700; 486900, 3721700; 486900, 3721800; 486800, 3721800; 486800, 3721900; 486700, 3721900; 486700, 3722000; land bounded by 484200, 3716600; 484300, 3716600; 484300, 3716500; 484500, 3716500; 484500, 3716400; 484800, 3716400; 484800, 3715900; 484600, 3715900; 484600, 3715700; 484500, 3715700; 484500, 3715600; 484400, 3715600; 484400, 3715500; 484300, 3715500; 484300, 3715400; 484200, 3715400; 484200, 3715700; 484300, 3715700; 484300, 3716000; 484400, 3716000; 484400, 3716200; 484200, 3716200; 484200, 3716600; land bounded by 484500, 3714800; 484600, 3714800; 484600, 3714700; 484900, 3714700; 484900, 3714500; 484800, 3714500; 484800, 3714600; 484500, 3714600; 484500, 3714800; land bounded by 487900, 3717400; 488200, 3717400; 488200, 3717300; 488000, 3717300; 488000, 3717100; 488200, 3717100; 488200, 3717000; 488100, 3717000; 488100, 3716800; 487900, 3716800; 487900, 3716500; 488100, 3716500; 488100, 3716300; 488000, 3716300; 488000, 3715900; 488200, 3715900; 488200, 3715800; 487400, 3715800; 487400, 3716300; 487200, 3716300; 487200, 3716200; 487000, 3716200; 487000, 3716100; 486900, 3716100; 486900, 3715800; 487000, 3715800; 487000, 3715700; 487100, 3715700; 487100, 3715600; 487200, 3715600; 487200, 3715500; 487100, 3715500; 487100, 3715400; 486600, 3715400; 486600, 3715300; 486400, 3715300; 486400, 3715200; 486300, 3715200; 486300, 3715100; 486200, 3715100; 486200, 3714900; 485900, 3714900; 485900, 3714800; 485800, 3714800; 485800, 3714700; 485700, 3714700; 485700, 3714200; 485100, 3714200; 485100, 3714300; 484900, 3714300; 484900, 3714200; 484800, 3714200; 484800, 3714400; 484900, 3714400; 484900, 3714500; 485200, 3714500; 485200, 3714400; 485300, 3714400; 485300, 3714300; 485400, 3714300; 485400, 3714400; 485500, 3714400; 485500, 3714700; 485400, 3714700; 485400, 3714900; 485800, 3714900; 485800, 3715100; 485600, 3715100; 485600, 3715000; 485200, 3715000; 485200, 3715100; 484900, 3715100; 484900, 3715000; 484800, 3715000; 484800, 3715100; 484700, 3715100; 484700, 3715300; 484800, 3715300; 484800, 3715400; 484900, 3715400; 484900, 3715200; 485200, 3715200; 485200, 3715300; 485300, 3715300; 485300, 3715400; 485500, 3715400; 485500, 3715300; 485700, 3715300; 485700, 3715700; 485800, 3715700; 485800, 3715800; 485700, 3715800; 485700, 3716200; 485400, 3716200; 485400, 3716400; 485900, 3716400; 485900, 3717000; 485300, 3717000; 485300, 3716700; 485100, 3716700; 485100, 3716600; 485000, 3716600; 485000, 3717300; 485800, 3717300; 485800, 3717200; 486000, 3717200; 486000, 3717000; 486100, 3717000; 486100, 3716900; 486200, 3716900; 486200, 3716700; 486100, 3716700; 486100, 3716400; 486300, 3716400; 486300, 3716500; 486400, 3716500; 486400, 3716600; 486500, 3716600; 486500, 3716800; 486700, 3716800; 486700, 3717000; 486800, 3717000; 486800, 3717100; 486900, 3717100; 486900, 3716500; 487400, 3716500; 487400, 3716600; 487500, 3716600; 487500, 3716700; 487600, 3716700; 487600, 3717000; 487400, 3717000; 487400, 3717100; 487600, 3717100; 487600, 3717200; 487800, 3717200; 487800, 3717100; 487900, 3717100; 487900, 3717400; land bounded by 488700, 3715400; 488900, 3715400; 488900, 3715300; 489000, 3715300; 489000, 3715000; 489100, 3715000; 489100, 3714900; 489000, 3714900; 489000, 3714800; 488700, 3714800; 488700, 3714500; 488900, 3714500; 488900, 3714300; 488700, 3714300; 488700, 3714000; 488900, 3714000; 488900, 3713900; 489000, 3713900; 489000, 3714000; 489100, 3714000; 489100, 3712900; 488900, 3712900; 488900, 3712600; 488800, 3712600; 488800, 3712700; 488700, 3712700; 488700, 3713200; 488000, 3713200; 488000, 3713000; 487900, 3713000; 487900, 3712900; 487800, 3712900; 487800, 3712800; 487600, 3712800; 487600, 3712900; 487700, 3712900; 487700, 3713000; 487800, 3713000; 487800, 3713100; 487900, 3713100; 487900, 3714100; 488200, 3714100; 488200, 3714300; 488300, 3714300; 488300, 3714800; 488400, 3714800; 488400, 3715200; 488500, 3715200; 488500, 3715300; 488700, 3715300; 488700, 3715400; land

bounded by 489200, 3714300; 489500, 3714300; 489500, 3714200; 489200, 3714200; 489200, 3714300; land bounded by 489400, 3714900; 489800, 3714900; 489800, 3714200; 489700, 3714200; 489700, 3714600; 489500, 3714600; 489500, 3714700; 489400, 3714700; 489400, 3714900; and land bounded by 487800, 3717600; 487800, 3717500; 487600, 3717500; 487600, 3717400; 487400, 3717400; 487400, 3717500; 486300, 3717500; 486300, 3717600; 486200, 3717600; 486200, 3717800; 485800, 3717800; 485800, 3718600; 486000, 3718600; 486000, 3718800; 485900, 3718800; 485900, 3718900; 485800, 3718900; 485800, 3719000; 485000, 3719000; 485000, 3719700; 485100, 3719700; 485100, 3719900; 485200, 3719900; 485200, 3720100; 485300, 3720100; 485300, 3720300; 485400, 3720300; 485400, 3720500; 485500, 3720500; 485500, 3720600; 485800, 3720600; 485800, 3721300; 485900, 3721300; 485900, 3721400; 486100, 3721400; 486100, 3721200; 486500, 3721200; 486500, 3721400; 486800, 3721400; 486800, 3721500; 486900, 3721500; 486900, 3721300; 487100, 3721300; 487100, 3721400; 487600, 3721400; 487600, 3721200; 487700, 3721200; 487700, 3720900; 487500, 3720900; 487500, 3721000; 487300, 3721000; 487300, 3720800; 487100, 3720800; 487100, 3720700; 487000, 3720700; 487000, 3720600; 486800, 3720600; 486800, 3720700; 486700, 3720700; 486700, 3720600; 486400, 3720600; 486400, 3720400; 486500, 3720400; 486500, 3720300; 486900, 3720300; 486900, 3720100; 487000, 3720100; 487000, 3719800; 487200, 3719800; 487200, 3720000; 487300, 3720000; 487300, 3720100; 487400, 3720100; 487400, 3720700; 487500, 3720700; 487500, 3720600; 487700, 3720600; 487700, 3720700; 487800, 3720700; 487800, 3720200; 487900, 3720200; 487900, 3720000; 487600, 3720000; 487600, 3719900; 487500, 3719900; 487500, 3719700; 487700, 3719700; 487700, 3719800; 488000, 3719800; 488000, 3719400; 488100, 3719400; 488100, 3719000; 488200, 3719000; 488200, 3718600; 488300, 3718600; 488300, 3718200; 488400, 3718200; 488400, 3718000; 488300, 3718000; 488300, 3717700; 488000, 3717700; 488000, 3717600; 487800, 3717600; excluding land bounded by 487800, 3717600; 487800, 3717700; 487900, 3717700; 487900, 3717900; 487500, 3717900; 487500, 3717700; 487600, 3717700; 487600, 3717600; 487800, 3717600; land bounded by 488200, 3718600; 488100, 3718600; 488100, 3718700; 487900, 3718700; 487900, 3718500; 487700, 3718500; 487700, 3718600; 487500, 3718600; 487500, 3718300; 487600, 3718300; 487600, 3718100; 487800, 3718100; 487800, 3718200; 487900, 3718200; 487900, 3718300; 488100, 3718300; 488100, 3718400; 488200, 3718400; 488200, 3718600; and land bounded by 485900, 3718400; 485900, 3718100; 486200, 3718100; 486200, 3718000; 486300, 3718000; 486300, 3718100; 486400, 3718100; 486400, 3718200; 486200, 3718200; 486200, 3718300; 486100, 3718300; 486100, 3718400; 485900, 3718400.

(iv) Map Unit 2 follows:



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(8) Unit 3: Otay, San Diego County, California.

(i) From USGS 1:24,000 quadrangle maps Dulzura, Jamul Mountains, Potrero, Tecate, Otay Mountain, Imperial Beach, and Otay Mesa. Beginning at the U.S./Mexico border at UTM NAD27 x-coordinate 507800 thence north along the following UTM NAD27 coordinates (E, N): 507800, 3601600 ; 507900, 3601600; 507900, 3602100; 508100, 3602100; 508100, 3602200; 508700, 3602200; 508700, 3602400; 508600, 3602400; 508600, 3602700; 508200, 3602700; 508200, 3603200; 508100, 3603200; 508100, 3603400; 508000, 3603400; 508000, 3603600; 508100, 3603600; 508100, 3603700; 508200, 3603700; 508200, 3603800; 508400, 3603800; thence north to the County of San Diego Major Amendment (CSDMA) boundary at UTM x-coordinate 508400; thence northwest following the CSDMA boundary to UTM x-coordinate 508300; thence south and returning north following UTM coordinates 508300, 3604000; 507900, 3604000; 507900, 3604100; 508000, 3604100; 508000, 3604600; 508100, 3604600; 508100, 3604700; thence east to the CSDMA boundary at UTM y-coordinate 3604700; thence north along the CSDMA boundary to the Multiple Habitat Planning Area (MHPA) boundary; thence northwestward along the

MHPA boundary to CSDMA boundary; thence around the CSDMA boundary to the MHPA boundary; thence northward along the MHPA boundary to UTM y-coordinate 3606500; thence west to UTM coordinates (E, N): 506700, 3606500; thence north to the City of Chula Vista Preserve Design (CCVPD) boundary at UTM x-coordinate 506700; thence southwestward along the CCVPD boundary to the MHPA, thence south to the CSDMA boundary; thence around the CSDMA boundary to the MHPA boundary; thence along the MHPA boundary to UTM y-coordinate 3604500; thence east following UTM coordinates 504600, 3604500; 504600, 3604600; 503700, 3604600; thence north to the MHPA boundary at UTM x-coordinate 503700; thence west along the MHPA boundary and continuing along Federal lands boundaries; thence west and north along the Federal lands boundaries to the MHPA boundary; thence westward along the MHPA boundary to Otay Mesa Road; thence west along Otay Mesa Road to the MHPA boundary; thence northward along the MHPA

boundary to UTM x-coordinate 498900; thence south and following UTM coordinates 498900, 3603400; 498800, 3603400; 498800, 3603500; 498700, 3603500; 498700, 3603700; 498800, 3603700; thence south to the MHPA boundary at UTM x-coordinate 498800; thence northward along the MHPA boundary to UTM y-coordinate 3604200; thence east and following UTM coordinates 498600, 3604200; 498600, 3604700; 498500, 3604700; 498500, 3605400; 498700, 3605400; thence to the MHPA boundary at UTM x-coordinate 498700; thence east and back west along the CCVPD boundary to UTM x-coordinate 489700; thence south and following UTM coordinates 498700, 3605700; 498600, 3605700; 498600, 3606100; 498700, 3606100; thence south to the CCVPD boundary at UTM x-coordinate 498700; thence eastward along the CCVPD boundary to the MHPA boundary; thence northward along the MHPA boundary to UTM x-coordinate 506400; thence west and following UTM coordinates 506400, 3607900; 506300, 3607900; 506300, 3608100; thence east to the MHPA boundary

at UTM y-coordinate 3608100; thence northward along the MHPA to UTM x-coordinate 505900; thence north along UTM x-coordinate 505900 to the CCVPD; thence north and east along the CCVPD boundary to

UTM x-coordinate 506200; thence north to UTM coordinates (E,N) 506200, 3614200, thence east to the CCVPD boundary at UTM y-coordinate 3614200; thence north and east along the CCVPD boundary to the MHPA boundary; thence north along the MHPA boundary to UTM x-coordinate 503800; thence south and following UTM coordinates 503800, 3614900; 503000, 3614900; thence north to the SDNWR boundary at UTM x-coordinate 503000; thence around the SDNWR boundary to the MHPA boundary; thence southeastward along the MHPA boundary to the SDNWR boundary; thence northeastward and returning southwestward along the SDNWR boundary to the MHPA boundary; thence south along the MHPA boundary to the CSDMA boundary; thence south along the CSDMA boundary to the MHPA boundary; thence north along the MHPA boundary to UTM y-coordinate 3620200; thence west and following UTM coordinates 507300, 3620200; 507300, 3620300; thence east to the MHPA boundary at UTM y-coordinate 3620300; thence north along the MHPA boundary to Highway 94; thence east along Highway 94 to the MHPA boundary; thence southeastward along the MHPA boundary to the SDNWR boundary; thence north along the SDNWR boundary to Highway 94; thence east along Highway 94 to the SDNWR boundary; thence south the SDNWR boundary to UTM y-coordinate 3619400; thence east and following UTM coordinates 510000, 3619400; 510000,

3618800; 509900, 3618800; thence north to the MHPA boundary at UTM x-coordinate 509900; thence west along the MHPA boundary to UTM x-coordinate 509800; thence south and following UTM coordinates 509800, 3618800; 509400, 3618800; thence north to the MHPA boundary at UTM x-coordinate 509400; thence west along the MHPA boundary to UTM x-coordinate 508800; thence south and following UTM coordinates 508800, 3617800; 509500, 3617800; 509500, 3617700; 510200, 3617700; 510200, 3617600; 510300, 3617600; 510300, 3617700; thence east to California Department of Fish and Game (CDFG) lands at UTM y-coordinate 3617700; thence north and east along the CDFG lands to Highway 94; thence southeastward along Highway 94 to the MHPA boundary; thence west along the MHPA boundary to CDFG lands; thence south and west along the CDFG lands to the MHPA boundary; thence around the MHPA boundary to CDFG lands; thence along the CDFG lands to UTM x-coordinate 514900; thence south and following UTM coordinates 514900, 3612300; 515400, 3612300; 515400, 3612200; 515300, 3612200; 515300, 3612100; 515100, 3612100; 515100, 3612000; 515000, 3612000; 515000, 3611900; 515200, 3611900; 515200, 3611700; 515400, 3611700; 515400, 3611600; 515600, 3611600; 515600, 3611700; 515700, 3611700; 515700,

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following UTM coordinates 521200, 3609600; 521200, 3609300; 521100, 3609300; 521100, 3609200; 521400, 3609200; 521400, 3609100; 521500, 3609100; 521500, 3608600; 521600, 3608600; 521600, 3608400; 521700, 3608400; 521700, 3608300; 521800, 3608300; 521800, 3608200; 521900, 3608200; 521900, 3608000; 522000, 3608000; 522000, 3607900; 522600, 3607900; 522600, 3607800; 522900, 3607800; 522900, 3607700; 523000, 3607700; 523000, 3607600; 523100, 3607600; 523100, 3607700; 523300, 3607700; 523300, 3607600; 523400, 3607600; 523400, 3607700; 523600, 3607700; 523600, 3607600; 524100, 3607600; 524100, 3607500; 524200, 3607500; 524200, 3607300; 524300, 3607300; 524300, 3607400; 524500, 3607400; 524500, 3607500; 524600, 3607500; 524600, 3607600; 524800, 3607600; 524800, 3607700; 524900, 3607700; 524900, 3607600; 525100, 3607600; 525100, 3607900; 524900, 3607900; 524900, 3608000; 524700, 3608000; 524700, 3608200; 524600, 3608200; 524600, 3608400; 524700, 3608400; 524700, 3608600; thence east to Highway 94 at UTM y-coordinate 3608600; thence southeastward along Highway 94 to UTM x-coordinate 534000; thence south and following UTM

coordinates (E, N) 534000, 3606900; 534000, 3606600; 534100, 3606600; 534100, 3606500; 534500, 3606500; 534500, 3606400; 534700, 3606400; 534700, 3606300; 534800, 3606300; 534800, 3606200; 534900, 3606200; 534900, 3606100; 535000, 3606100; 535000, 3606000; 535100, 3606000; 535100, 3605600; 535200, 3605600; 535200, 3605300; 535100, 3605300; 535100, 3605000; 535000, 3605000; 535000, 3604800; 534900, 3604800; 534900, 3604700; 534800, 3604700; 534800, 3604600; 534700, 3604600; 534700, 3604500; 534800, 3604500; 534800, 3604400; 534600, 3604400; 534600, 3604300; 534700, 3604300; 534700, 3604200; thence south to the U.S./ Mexico border at UTM x-coordinate 534700; returning to the point of beginning on the U.S./Mexico border at UTM x-coordinate 507800; excluding the Otay landfill; the planned recreational areas in the Otay River Valley and the university site as illustrated in the City of Chula Vista's subarea plan; land bounded by the following UTM coordinates (E, N) 508700, 3602200; 508700, 3602100; 508800, 3602100; 508800, 3602200; 508700, 3602200; and land bounded by the following UTM coordinates (E, N) 514700, 3610400; 515200, 3610400; 515200, 3610200; 515100, 3610200; 515100, 3610100; 515300, 3610100; 515300, 3610200; 515500, 3610200; 515500, 3610300; 515700, 3610300; 515700, 3610400; 516000, 3610400; 516000, 3610300; 516100, 3610300; 516100, 3610000; 516200, 3610000; 516200, 3609800;

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(ii) Map Unit 3 follows:

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(9) Unit 4: Jacumba, San Diego County, California.

(i) From USGS 1:24,000 quadrangle maps Jacumba, Jacumba OE S, and Live Oak Springs. Beginning at the U.S./Mexico border at UTM NAD27 x-coordinate 575300, lands bounded by the following UTM NAD27 coordinates (E, N): 575300, 3608400; 575300, 3608700; 575400, 3608700; 575400, 3608800; 575500, 3608800; 575500, 3608900; 575600, 3608900; 575600, 3609100; 575700, 3609100; 575700, 3609300; 575800, 3609300; 575800, 3609500; 576200, 3609500; 576200, 3609600; 576500, 3609600; 576500, 3609700; 576800, 3609700; 576800, 3609800; 576900, 3609800; 576900, 3610000; 577000, 3610000; 577000, 3610400; 576900, 3610400; 576900, 3610700; 576800, 3610700; 576800, 3611200; 576900, 3611200; 576900, 3611300; 577000, 3611300; 577000, 3611400; 576900, 3611400; 576900, 3611600; 576800, 3611600; 576800, 3611700; 576700, 3611700; 576700, 3611900; 576600, 3611900; thence north to Interstate 8 at UTM x-coordinate 576600; thence west along Interstate 8 to UTM x-coordinate 571500, thence southward following UTM coordinates (E, N) 571500, 3613800; 571400, 3613800; 571400, 3613600; 571500, 3613600; 571500, 3613500; 571600, 3613500; 571600, 3613400; 571700, 3613400; 571700, 3613000; 571500, 3613000; 571500, 3612800; 571400, 3612800; 571400, 3612400; 571500, 3612400; 571500, 3612200; 571400, 3612200; 571400, 3612100; 570800, 3612100; 570800, 3612000; 570600, 3612000; 570600, 3611700; 570500, 3611700; 570500, 3611600; 570400, 3611600; 570400, 3611400; 570100, 3611400; 570100, 3611000; 570200, 3611000; 570200, 3610600; 570300, 3610600; 570300, 3610400; 570600, 3610400; 570600, 3610500; 570800, 3610500; 570800, 3610600; 571000, 3610600; 571000, 3610700; 571200, 3610700; 571200, 3610800; 571400, 3610800; 571400, 3610500; 571300, 3610500; 571300, 3610400; 571100, 3610400; 571100, 3610300; 570900, 3610300; 570900, 3610200; 570800, 3610200; 570800, 3610100; 570700, 3610100; 570700, 3609900; 570400, 3609900; 570400, 3609500; 570700, 3609500; 570700, 3609600; 571000, 3609600; 571000, 3609700; 571100, 3609700; 571100, 3609800; 571400, 3609800; 571400, 3609600; 571300, 3609600; 571300, 3609400; 571600, 3609400; 571600, 3609000; 571500, 3609000; 571500, 3608900; 571200, 3608900; 571200, 3608800; 571000, 3608800; 571000, 3608600; 571100, 3608600; 571100, 3608500; 571200, 3608500; 571200, 3608300; 571400, 3608300; 571400, 3608200; 571500, 3608200; 571500, 3608100; 571600, 3608100; thence south to the U.S./Mexico border at UTM x-coordinate 571600; returning to the point of beginning on the U.S./Mexico border at UTM x-coordinate 575300.

(ii) Map Unit 4 follows:

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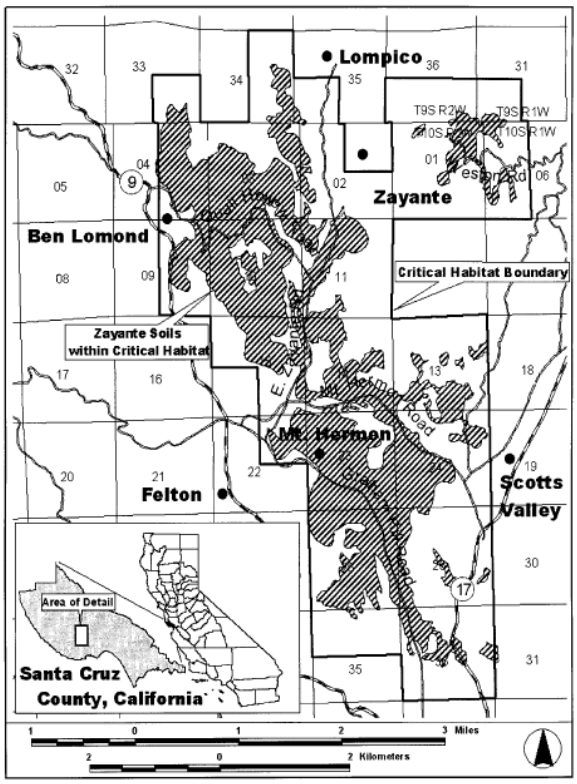
Zayante Band-Winged Grasshopper (Trimerotropis infantilis)

1. The unit of critical habitat is depicted for Santa Cruz County, California, on the map below.



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2. Within this area, the primary constituent elements for the Zayante band-winged grasshopper are those physical and biological elements that provide conditions that are essential for the primary biological needs of thermoregulation, foraging, sheltering, reproduction, and dispersal. The primary constituent elements are—(a) the presence of Zayante soils, (b) the occurrence of Zayante sand hills habitat and the associated plant species, and (c) certain microhabitat conditions, including areas that receive large amounts of sunlight, widely scattered tree and shrub cover, bare or sparsely vegetated ground, and loose sand. Zayante sand hills habitat is characterized by plant species associated with ponderosa pine sand parkland and/or silverleaf manzanita mixed chaparral. Plant species that may occur within the boundaries include, but are not limited to—ponderosa pine (*Pinus ponderosa*), silver-leafed manzanita (*Arctostaphylos silvicola*), California lilac (*Ceonothus* sp.), *Adenostoma* sp., yerba santa (*Eriodictyon* sp.), sandwort (*Minuartia* sp.), pussypaws (*Calyptridium umbellatum*), Ben Lomond spineflower (*Erysimum teretifolium*), monkeyflower (*Mimulus rattanii*), miniature lupine (*Lupinis bicolor*), gilia (*Gilia tenuiflora*), California aster (*Lessingia filaginifolia*), Ben Lomond buckwheat (*Eriogonum nudum* ssp. *decurrens*), and Ben Lomond spineflower (*Chorizanthe pungens* var. *hartwegiana*).

3. Critical habitat does not include existing developed sites consisting of buildings, roads, aquaducts, railroads, airports, paved areas, and similar features and structures.

Santa Cruz County, California. Boundaries are based upon the Public Land Survey System. Within the historical boundaries of the Land Grants of Zayanta, San Augustin, La Carbonera, and Canada Del Rincon En El Rio San Lorenzo De Santa Cruz, boundaries are based upon section lines that are extensions to the Public Land Survey System developed by the California Department of Forestry and obtained by the Service from the State of California's Stephen P. Teale Data Center. Township and Range numbering is derived from the Mount Diablo Base and Meridian. The following lands located within Santa Cruz County are being proposed for critical habitat: T.9 S., R.1 W., SE 1/4 sec. 31; T.9 S., R.2 W., SE 1/4 sec. 33, E 1/2 sec. 34, SW 1/4 sec. 35, S 1/2 sec. 3; T.10 S., R1 W., W 1/2 sec. 6; T.10 S., R.2 W., sec. 1, S 1/2 NW 1/4 sec. 2, sec. 3, W 1/2 sec. 4, W 1/2 sec. 9, sec. 10, sec. 11, sec. 13, sec. 14, N 1/2 SE 1/4 sec. 15, NE 1/4 sec. 22, secs. 23–26, N 1/2 sec. 35, sec. 36, excluding all lands covered under the Revised Habitat Conservation Plan for the Quail Hollow Quarry and the Habitat Conservation Plan for the Hanson Aggregates' Felton Plant.

Blackburn's Sphinx Moth (Manduca blackburni)

(1) Critical habitat units are depicted for the Hawaiian islands of Maui, Kahoolawe, Hawaii, and Molokai on the maps below.

(2) The primary constituent elements of critical habitat for Blackburn's sphinx moth include specific habitat components identified as essential for the primary biological needs of foraging, sheltering, maturation, dispersal, breeding, and egg-laying.

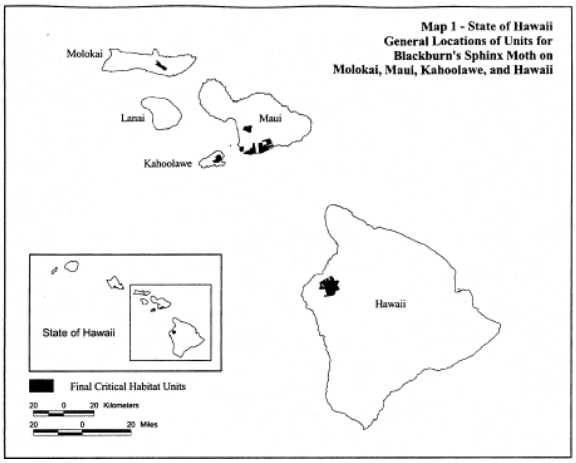
(i) Based on our current knowledge of the species, the primary constituent elements required by Blackburn's sphinx moth larvae for foraging and maturation are two larval host plant species in the endemic genus *Nothocestrum* (*N. breviflorum* and *N. latifolium*) and the habitats that support these plants, *i.e.*, dry and mesic habitats between the elevations of sea level and 1,525 m (5,000 ft) that receive between 25 and 250 cm (10 and 100 in) of annual precipitation.

(ii) Based on our current knowledge of the species, the primary constituent elements required by Blackburn's sphinx moth adults for foraging, sheltering, dispersal, breeding, and egg production are native nectar-supplying plants, including, but not limited to, *Ipomoea* spp., *Capparis sandwichiana*, and *Plumbago zeylanica*, and the habitats that support these plants, *i.e.*, dry and mesic habitats between the elevations of sea level and 1,525 m (5,000 ft) that receive between 25 and 250 cm (10 and 100 in) of annual precipitation.

(3) Existing manmade features and structures within the boundaries of the mapped areas do not contain one or more of the primary constituent elements described for the species in paragraph (2) of this section, and therefore, are not included in the critical habitat designations. These features include, but are not limited to: buildings; roads; aqueducts and other water system features such as pumping stations, irrigation ditches, pipelines, siphons, tunnels, water tanks, gauging stations (section in a stream channel equipped with facilities for obtaining streamflow data), intakes, and wells; telecommunications towers and associated structures and equipment; electrical power transmission lines and associated rights-of-way; radars; telemetry antennas; missile launch sites; arboreta and gardens; heiau (indigenous places of worship or shrines); airports; other paved areas; lawns; and other rural residential landscaped areas.

(4) Critical habitat units are described below. Coordinates are in UTM Zone 4 with units in meters using North American Datum of 1983 (NAD83). The following index map shows the general locations of the 9 critical habitat units designated on the islands of Hawaii, Kahoolawe, Maui, and Molokai.

(i) Note:Map 1—State of Hawaii General Locations of Units for Blackburn's Sphinx Moth on Molokai, Maui, Kahoolawe, and Hawaii follows:



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(ii) Unit 1: Island of Maui, Puu O Kali (1,604 ha; 3,965 ac):

(A) Unit 1 consists of the following 38 boundary points: Start at 770230, 2293671; 769969, 2293640; 769876, 2293794; 769523, 2293779; 769444, 2293784; 769146, 2293904; 769358, 2294451; 769492, 2294471; 769569, 2294563; 770123, 2294379; 770384, 2294317; 770707, 2294517; 770169, 2294794; 769629, 2295149; 769732, 2295410; 770032, 2295219; 769985, 2295371; 770360, 2295328; 769892, 2295671; 770362, 2295705; 770578, 2295954; 771492, 2296086; 772138, 2296102; 772522, 2296179; 772876, 2295933; 773384, 2295733; 773324, 2296764; 775265, 2296040; 775041, 2295484; 774484, 2295757; 774033, 2294844; 774654, 2294538; 774448, 2294006; 774392, 2292779; 773825, 2291760; 772032, 2292639; 770772, 2293255; 770524, 2293353; return to starting point.

(B) Note: Unit 1 is depicted below on Map 2—Units 1, 2, 3, and 4—Island of Maui.

(iii) Unit 2: Island of Maui, Cape Kinau (603 ha; 1,490 ac):

(A) Unit 2 consists of the following 36 boundary points: 769419, 2281688; 769716, 2281856; 769854, 2281648; 769726, 2281351; 769548, 2281173; 769433, 2280683; 769312, 2280406; 769251, 2280342; 769175, 2280353; 769073, 2280442; 768954, 2280466; 768791, 2280406; 768658, 2280329; 768621, 2280282; 768645, 2279874; 768737, 2279820; 767046, 2281800; 767136, 2281768; 767208, 2281837; 767139, 2281940; 767151, 2281994; 767136, 2282020; 767607, 2282308; 767710, 2282266; 767837, 2282318; 767857, 2282291; 768160, 2282410; 769380, 2282944; 769746, 2282588; 769429, 2282400; 769103, 2282123; 768598, 2281510; 768687, 2281391; 768737, 2281399; 768836, 2281460. 768738, 2279820. Coast.

(B) Note: Unit 2 is depicted below on Map 2—Units 1, 2, 3, and 4—Island of Maui.

(iv) Unit 3: Island of Maui, Kanaio (2,420 ha; 5,981 ac):

(A) Unit 3 consists of the following 45 boundary points: 777366, 2282219; 777421, 2281595; 777453, 2281235; 777531, 2280334; 777588, 2279661; 777719, 2278166; 770402, 2278173; 770445, 2278268; 770936, 2279194; 771208, 2279714; 771289, 2279691; 771211, 2279314; 771211, 2278906; 771368, 2278922; 771525, 2279173; 771854, 2279424; 772011, 2279707; 772231, 2279974; 772357, 2280335; 772451, 2280445; 772514, 2280351; 772561, 2280068; 772687, 2279848; 772938, 2279801; 773221, 2279817; 773425, 2280021; 773676, 2280335; 773676, 2280665; 773888, 2280993; 773606, 2281355; 774253, 2281430; 774897, 2280433; 775340, 2281119; 774662, 2281499; 775105, 2281701; 775435, 2282376; 775590, 2284264; 776004, 2284678; 776020, 2285055; 776484, 2284998; 776553, 2285169; 776691, 2285141; 776878, 2283402; 777021, 2282206; 777227, 2278017. Coast.

(B) Unit excludes an area (1 ha; 2 ac) consisting of the following 6 boundary points: 771887, 2277914; 771944, 2277910; 771986, 2277995; 771948, 2277989; 771909, 2277980; 771870, 2277975.

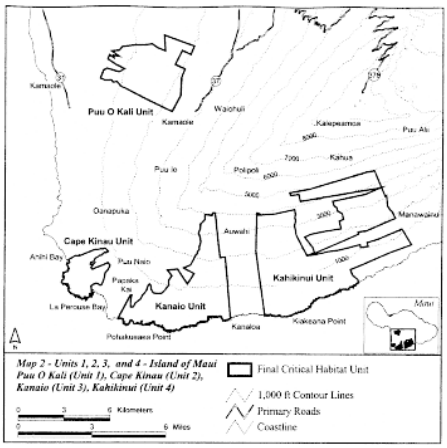
(C) Note: Unit 3 is depicted below on Map 2—Units 1, 2, 3, and 4—Island of Maui.

(v) Unit 4: Island of Maui, Kahikinui (4,799 ha; 11,859 ac):

(A) Unit 4 consists of the following 79 boundary points: 786068, 2283893; 786089, 2283760; 782956, 2282353; 783312, 2282399; 784167, 2282606; 784764, 2282682; 785521, 2282878; 786198, 2283068; 786227, 2282882; 786706, 2282953; 786657, 2283206; 787388, 2283424; 787555, 2283500; 788907, 2284087; 789388, 2283321; 789534, 2283053; 788185, 2282559; 786399, 2281761; 785563, 2281400; 785715, 2281039; 786057, 2280754; 786112, 2280548; 779950, 2278500; 779720, 2280135; 779703, 2280237; 779617, 2280887; 779412, 2282307; 779402, 2282377; 779372, 2282585; 779368, 2282602; 779376, 2282933; 779427, 2285142; 779549, 2285133; 779550, 2285007; 780604, 2285092; 781898,

2285373; 781956, 2285061; 781923, 2284848; 781966, 2284607; 781902, 2284320; 782032, 2283672; 782491, 2282783; 782731, 2282340; 783230, 2282514; 783112, 2282850; 782587, 2283565; 782996, 2283744; 783721, 2283912; 784941, 2284106; 784823, 2284611; 785088, 2284724; 785012, 2285109; 784719, 2285271; 784639, 2285526; 784482, 2285613; 784385, 2285910; 786498, 2286367; 787288, 2286710; 787415, 2286765; 787506, 2286804; 787311, 2286772; 782285, 2285909; 782162, 2286366; 781651, 2286291; 781569, 2286457; 782827, 2286695; 786589, 2287817; 787091, 2287913; 787800, 2286248; 787893, 2286297; 787957, 2285636; 788105, 2285388; 788261, 2285257; 788481, 2284803; 788363, 2284742; 786517, 2283943; 786510, 2283966; 786068, 2283893; 779965, 2278394. Coast.

(B) Note: Unit 4 is depicted on Map 2—Units 1, 2, 3, and 4—Island of Maui, which follows:



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(vi) Unit 5: Island of Maui, Kanaha Pond (56 ha; 139 ac):

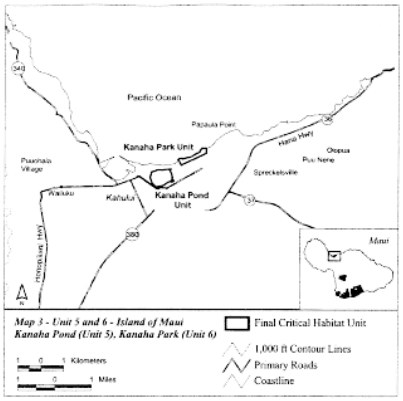
(A) Unit 5 consists of the following 35 boundary points: Start at 764695, 2312624; 764849, 2312615; 765062, 2312636; 765174, 2312639; 765226, 2312636; 765201, 2312573; 765221, 2312534; 765223, 2312502; 765259, 2312452; 765291, 2312304; 765287, 2312260; 765291, 2312223; 765281, 2312190; 765356, 2312144; 765352, 2312121; 765325, 2312090; 765284, 2312093; 765213, 2312118; 765183, 2312109; 765157, 2312091; 765106, 2312075; 765069, 2312044; 765036, 2312036; 764954, 2311971; 764872, 2311927; 764845, 2311912; 764588, 2311880; 764530, 2311946; 764474, 2311988; 764424, 2312038; 764390, 2312140; 764336, 2312293; 764397, 2312539; 764542, 2312565; 764615, 2312613; return to starting point.

(B) Note: Unit 5 is depicted below on Map 3—Units 5 and 6—Island of Maui.

(vii) Unit 6: Island of Maui, Kanaha Park (25 ha; 62 ac):

(A) Unit 6 consists of the following 7 boundary points: 766783, 2313583; 766781, 2313351; 766330, 2313141; 765776, 2312874; 765717, 2312838; 765689, 2312823; 765557, 2313073. Coast.

(B) Note: Unit 6 is depicted on Map 3—Units 5 and 6—Island of Maui, which follows:



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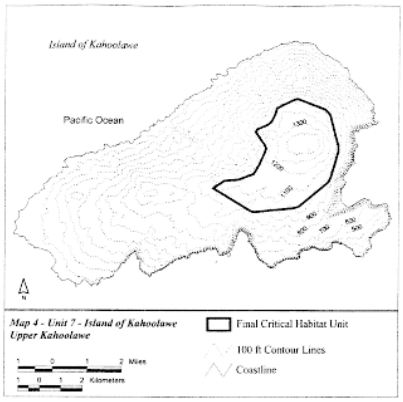
(viii) Unit 7: Island of Kahoolawe, Upper Kahoolawe (1,721 ha; 4,252 ac):

(A) Unit 7 consists of the following 39 boundary points: Start at 751848, 2276600; 751944, 2276801; 752021, 2277051; 752708, 2277402; 752817, 2277444; 752922, 2277482; 753039, 2277468; 754266, 2276996; 754390, 2276868; 754486, 2276715; 754758, 2275711; 754871, 2275319; 754880, 2275141; 754868, 2275021; 754822, 2274844; 754523, 2273789; 754438, 2273635; 754364, 2273546; 754213, 2273418; 753057, 2272446; 752825, 2272362; 750995, 2272184; 750869, 2272206; 750787, 2272247; 749069, 2273302; 749575, 2273659; 750287, 2273729; 750943, 2273970; 751205, 2274403; 751431, 2274927; 751475, 2275037; 751531, 2275180; 751447, 2275330; 751428, 2275366; 751291, 2275543; 751032, 2275938; 751109, 2276062; 751570, 2276254; 751752, 2276408; return to starting point.

(B) Note: Unit 7 is depicted on Map 4—Unit 7—Island of Kahoolawe, which follows:



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(ix) Unit 8: Island of Hawaii, Puuwaawaa—Hualalai (9,954 ha; 24,598 ac):

(A) Unit 8 consists of the following 449 boundary points: Start at 193748, 2193379; 193979, 2193518; 194022, 2193428; 194091, 2193386; 194109, 2193303; 194145, 2193281; 194185, 2193225; 194212, 2193188; 194225, 2193213; 194201, 2193260; 194232, 2193325; 194227, 2193356; 194266, 2193381; 194290, 2193366; 194306, 2193379; 194301, 2193431; 194281, 2193478; 194292, 2193504; 194286, 2193538; 194291, 2193598; 194328, 2193648; 194331, 2193666; 194320, 2193710; 194969, 2194077; 195027, 2194069; 195065, 2194098; 195121, 2194107; 195172, 2194152; 195231, 2194087; 195235, 2194013; 195256, 2193957; 195324, 2193909; 195378, 2193840; 195441, 2193804; 195564, 2193455; 195558, 2193407; 195590, 2193322; 195588, 2193245; 195641, 2193182; 195659, 2193134; 195645, 2193064; 195682, 2192983; 195722, 2192963; 195793, 2192836; 195838, 2192773; 195829, 2192664; 195844, 2192499; 195907, 2192445; 196009, 2192213; 196079, 2192144; 196061, 2192063; 196077, 2191999; 196121, 2191888; 196184, 2191891; 196196, 2191837; 196250, 2191837; 196287, 2191749; 196280, 2191681; 196331, 2191672; 196361, 2191560; 196379, 2191428; 196414, 2191446; 196473, 2191524; 196497, 2191624; 196494, 2191708; 196593, 2191768; 196656, 2191837; 196644, 2191885; 196593, 2192093; 196576, 2192195; 196596, 2192288; 196581, 2192409; 196566, 2192451; 196506, 2192484; 196397, 2192655; 196367, 2192770; 196427, 2192764; 196452, 2192703; 196581, 2192577; 196614, 2192547; 196623, 2192577; 196605, 2192634; 196608, 2192685; 196679, 2192667; 196749, 2192610; 196804, 2192476; 196831, 2192436; 196879, 2192403; 196885, 2192466; 196815, 2192586; 196717, 2192687; 196614, 2192809; 196241, 2193037; 196094, 2193227; 196003, 2193494; 195985, 2193759; 196088, 2193858; 195949, 2194099; 195958, 2194379; 195865, 2194469; 195811, 2194559; 196050, 2194687; 196076, 2194653; 196055, 2194610; 196109, 2194511; 196184, 2194505; 196223, 2194361; 196256, 2194337; 196322, 2194285; 196334, 2194171; 196370, 2194174; 196348, 2194291; 196379, 2194331; 196367, 2194427; 196363, 2194508; 196372, 2194578; 196427, 2194610; 196385, 2194670; 196314, 2194718; 196304, 2194841; 196831, 2195161; 196944, 2195021; 196930, 2194959; 197092, 2194830; 197104, 2194773; 197179, 2194752; 197273, 2194622; 197279, 2194550; 197361, 2194467; 197477, 2194325; 197573, 2194252; 197613, 2194177; 197654, 2194115; 197640, 2194033; 197654, 2193943; 197697, 2193753; 197750, 2193692; 197778, 2193488; 197871, 2193374; 197922, 2193401; 197995, 2193392; 198304, 2193109; 198362, 2193103; 198518, 2192944; 198584, 2192854; 198620, 2192761; 198680, 2192715; 198716, 2192658; 198731, 2192586; 198801, 2192589; 198879, 2192547; 198921, 2192493; 199051, 2192352; 199101, 2192412; 199177, 2192324; 199171, 2192201; 199246, 2192141; 199252, 2192243; 199294, 2192252; 199303, 2192291; 199225, 2192348; 199243, 2192397; 199186, 2192439; 199156, 2192529; 199084, 2192566; 199047, 2192643; 198948, 2192736; 198956, 2192786; 198949, 2192835; 198931, 2192888; 198913, 2192924; 198819, 2192954; 198760, 2192979; 198741, 2193028; 198777, 2193070; 198746, 2193098; 198718, 2193126; 198730, 2193180; 198683, 2193290; 198609, 2193325; 198679, 2193472; 198648, 2193542; 198669, 2193598; 198623, 2193633; 198602, 2193685; 198553, 2193675; 198480, 2193748; 198442, 2193839; 198494, 2193857; 198550, 2193860; 198819, 2193594; 198819, 2193514; 198882, 2193479; 198872, 2193388; 198872, 2193252; 198861, 2193199; 198844, 2193143; 198935, 2193063; 198981, 2193027; 199010, 2192968; 199103, 2193492; 199103, 2193552; 199015, 2193608; 198931, 2193619; 198910, 2193717; 198753, 2193867; 198735, 2193951; 198805, 2193972; 198889, 2193941; 198942, 2193853; 199005, 2193794; 199050, 2193829; 199001, 2193880; 199029, 2193930; 199092, 2193962; 199110, 2194004; 199025, 2194133; 199012, 2194241; 198896, 2194308; 198861, 2194399; 198799, 2194485; 198862, 2194479; 198938, 2194378; 199015, 2194329; 198987, 2194392; 198934, 2194434; 198931, 2194472; 198798, 2194560; 198795, 2194672; 198749, 2194749; 198623, 2194860; 198553, 2194937; 198550, 2195004; 198637, 2195060; 198683, 2195074; 198746, 2195175; 198714, 2195256; 198707, 2195340; 198588, 2195399; 198497, 2195417; 198402, 2195429; 198344, 2195490; 198302, 2195511; 198274, 2195563; 198179, 2195584; 198172, 2195658; 198127, 2195703; 198641, 2195878; 198662, 2195829; 198714, 2195780; 198732, 2195665; 198809, 2195633; 198970, 2195626; 199047, 2195549; 199075, 2195469; 199141, 2195427; 199087, 2195235; 199101, 2195127; 199124, 2194955; 199208, 2194840; 199267, 2194675; 199270, 2194567; 199260, 2194504; 199263, 2194437; 199310, 2194460; 199347, 2194479; 199306, 2194541; 199326, 2194591; 199424, 2194595; 199508, 2194525; 199522, 2194441; 199582, 2194392; 199598, 2194329; 199643, 2194295; 199662, 2194406; 199599, 2194462; 199596, 2194588; 199515, 2194853; 199368, 2195011; 199260, 2195319; 199312, 2195434; 199235, 2195476; 199274, 2195696; 199169, 2195847; 199138, 2195938; 199071, 2196039; 199663, 2196234; 199977, 2195921; 200985, 2194989; 201320, 2194454; 201268, 2194305; 201289, 2194176; 201150, 2193708; 201809, 2193212; 202487, 2192751; 202713, 2192557; 202794, 2192559; 203007, 2192869; 203088, 2192979; 203136, 2192967; 203139, 2192921; 203197, 2192911; 203224, 2192943; 203218, 2192991; 203264, 2193014; 203275, 2193130; 203278, 2193165; 203253, 2193224; 203277, 2193250; 203296, 2193248; 203321, 2193200; 203355, 2193261; 203340, 2193353; 203398, 2193434; 203487, 2193372; 203534, 2193296; 203580, 2193267; 203611, 2193247; 203631, 2193197; 203661, 2193126; 203650, 2193032; 203644, 2192994; 203649, 2192943; 203665, 2192930; 203692, 2192935; 203681, 2193005; 203695, 2193038; 203743, 2193045; 203751, 2193024; 203738, 2192991; 203747, 2192970; 203800, 2192948; 203810, 2192905; 203819, 2192867; 203833, 2192838; 203878, 2192830; 203916, 2192790; 203944, 2192724; 203935, 2192680; 203951, 2192655; 203968, 2192628; 203952, 2192587; 203978, 2192535; 203975, 2192477; 203992, 2192466; 204025, 2192444; 204044, 2192404; 204086, 2192392; 204133, 2192395; 204170, 2192417; 204186, 2192474; 204162, 2192528; 204130, 2192602; 204129, 2192641; 204081, 2192714; 204046, 2192717; 204022, 2192755; 204021, 2192835; 204057, 2192840; 204076, 2192827; 204105, 2192829; 204151, 2192846; 204218, 2192835; 204283, 2192808; 204311, 2192754; 204327, 2192655; 204350, 2192684; 204434, 2192709; 204459, 2192700; 204478, 2192684; 204469, 2192614; 204482, 2192593; 204485, 2192570; 204478, 2192547; 204485, 2192512; 204523, 2192529; 204540, 2192511; 204553, 2192479; 204294, 2191977; 203325, 2189871; 203670, 2189403; 203884, 2188867; 203876, 2188804; 204461, 2186966; 204241, 2186814; 203491, 2186573; 202905, 2186615; 201914, 2186332; 201935, 2186229; 201876, 2186192; 201969, 2186029; 201914, 2185947; 201962, 2185871; 201921, 2185754; 201866, 2185830; 201776, 2185816; 201838, 2185534; 201270, 2183971;

200424, 2183478; 194641, 2182859; 194391, 2182952; 194378, 2183030; 194326, 2183157; 194456, 2183246; 194375, 2183319; 194389, 2183392; 194641, 2183400; 195006, 2183522; 195441, 2183574; 195719, 2183591; 196066, 2183591; 196362, 2183670; 196372, 2183812; 195923, 2185051; 195805, 2185370; 195527, 2186175; 195324, 2186794; 195333, 2187189; 195544, 2187388; 195515, 2187690; 195450, 2187775; 193517, 2187814; 192035, 2187735; 191436, 2188145; 191395, 2188201; 191330, 2188228; 191183, 2188413; 191053, 2188549; 192020, 2188888; 192202, 2189030; 192137, 2189101; 192046, 2189432; 191945, 2189652; 191926, 2189817; 192000, 2189918; 191994, 2190055; 192009, 2190194; 191926, 2190322; 191954, 2190387; 191972, 2190616; 191961, 2190800; 191953, 2190938; 191917, 2191094; 191981, 2191296; 191943, 2191461; 191923, 2191548; 191871, 2191672; 191850, 2191864; 191834, 2192269; return to starting point.

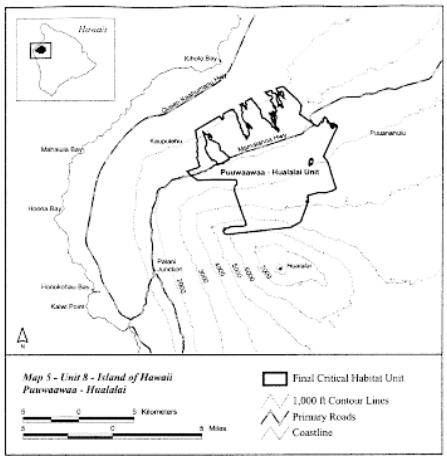
(B) This unit excludes three areas:

(*1*) Unit excludes an area (292 ha; 723 ac) consisting of the following 53 boundary points: Start at 194866, 2189663; 194567, 2189462; 194355, 2189326; 194325, 2189306; 194187, 2189261; 193786, 2189183; 193790, 2189211; 193677, 2189413; 193430, 2189605; 193325, 2189528; 192941, 2190012; 192773, 2190361; 192668, 2190673; 192763, 2190854; 192807, 2191149; 192721, 2191436; 192600, 2191671; 192527, 2191928; 192513, 2192089; 192642, 2191999; 192658, 2191915; 192697, 2191881; 192913, 2191886; 193004, 2191923; 193133, 2191855; 193180, 2191784; 193280, 2191621; 193278, 2191563; 193175, 2191653; 193109, 2191763; 193075, 2191789; 192949, 2191779; 192960, 2191622; 193028, 2191556; 193012, 2191490; 193102, 2191393; 193291, 2191346; 193364, 2191272; 193540, 2191230; 193782, 2191099; 193918, 2190994; 193958, 2190933; 193989, 2190799; 193984, 2190718; 194048, 2190643; 194008, 2190547; 194039, 2190466; 194149, 2190358; 194304, 2190298; 194449, 2190177; 194695, 2189967; 194808, 2189833; 194848, 2189683; return to starting point.

(*2*) Unit excludes an area (15 ha; 38 ac) consisting of the following 12 boundary points: Start at 202034, 2189562; 202141, 2189566; 202153, 2189649; 202308, 2189645; 202298, 2189564; 202339, 2189548; 202329, 2189219; 202193, 2189187; 202230, 2189088; 202042, 2189024; 202020, 2189151; 202024, 2189554; return to starting point.

(*3*) Unit excludes an area (11 ha; 28 ac) consisting of the following 23 boundary points: Start at 199447, 2195793; 199533, 2195796; 199635, 2195736; 199639, 2195696; 199701, 2195643; 199708, 2195591; 199713, 2195537; 199743, 2195499; 199737, 2195444; 199746, 2195368; 199725, 2195312; 199732, 2195273; 199753, 2195207; 199772, 2195162; 199732, 2195181; 199706, 2195245; 199646, 2195283; 199615, 2195345; 199573, 2195368; 199509, 2195416; 199449, 2195478; 199437, 2195611; 199430, 2195734; return to starting point.

(C) Note: Unit 8 is depicted on Map 5–Unit 8—Island of Hawaii, which follows:



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(x) Unit 9: Island of Molokai, Kamoko Flats—Puukolekole (1,256 ha; 3,105 ac):

(A) Unit 9 consists of the following 170 boundary points: Start at 713960, 2337883; 713787, 2337815; 713641, 2337737; 713587, 2337686; 713542, 2337635; 713525, 2337608; 713514, 2337604; 713488, 2337574; 713275, 2337497; 713260, 2337442; 713302, 2337415; 713444, 2337400; 713651, 2337482; 713677, 2337507; 713828, 2337580; 713834, 2337585; 713841, 2337587; 713989, 2337659; 714006, 2337664; 714030, 2337681; 714036, 2337674; 714090, 2337691; 714150, 2337601; 714065, 2337490; 714169, 2337531; 714182, 2337553; 714217, 2337500; 714313, 2337356; 714267, 2337327; 713658, 2336950; 713641, 2336937; 713639, 2336938; 713638, 2336937; 713592, 2336909; 713171, 2337020; 713128, 2337025; 713101, 2337039; 712948, 2337083; 712768, 2337134; 712739, 2337127; 712714, 2337150; 712707, 2337152; 712647, 2337156; 711929, 2337023; 712115, 2336844; 712527, 2336930; 712811, 2336772; 712314, 2336653; 712783, 2336203; 712700, 2336108; 712785, 2336093; 712927, 2336085; 713147, 2336184; 713257, 2336224; 713265, 2336238; 712778, 2336365; 712783, 2336372; 712923, 2336457; 713217, 2336633; 714333, 2337309; 714341, 2337313; 715056, 2336242; 715073, 2336232; 716805, 2335668; 717490, 2335146; 717565, 2335112; 718350, 2334490; 718276, 2333666; 717554, 2332806; 717447, 2332851; 717080, 2333001; 716796, 2333195; 715114, 2334345; 715139, 2334491; 715684, 2334688; 716000, 2334857; 715980, 2334880; 715849, 2335177; 715914, 2335254; 715842, 2335306; 715274, 2335635; 715213, 2335636; 715076, 2335749; 715046, 2335773; 714377, 2335948; 714372, 2335938; 714373, 2335938; 714280, 2335711; 714494, 2335653; 714617, 2335594; 714901, 2335519; 715544, 2335359; 715547, 2335358; 715174, 2335053; 715005, 2334932; 714716, 2334982; 714205, 2335078; 714040, 2335127; 714024, 2335088; 711244, 2336986; 711354, 2337009; 711401, 2337037; 711322, 2337112; 711727, 2337380; 711733, 2337403; 711948, 2337483; 712220, 2337776; 712433, 2338103; 712602, 2338152; 712517, 2338265; 712284, 2338486; 711968, 2338683; 711759, 2338845; 711681, 2338900; 711900, 2338941; 711710, 2339118; 711642, 2339123; 711579, 2339096; 711465, 2339097; 711625, 2339356; 711763, 2339365; 711777, 2339323; 711817, 2339308; 711969, 2339303; 712089, 2339324; 712130, 2339297; 712272, 2339304; 712447, 2339115; 712346, 2339007; 712231, 2338953; 712098, 2338911; 712002, 2338805; 712132, 2338664; 712392, 2338783; 712579, 2338783; 712421, 2338675; 712279, 2338579; 712353, 2338489; 712568, 2338528; 712635, 2338591; 712780, 2338508; 712777, 2338472; 712895, 2338488; 713001, 2338534; 713003, 2338502; 713072, 2338512; 713177, 2338629; 713424, 2338561; 713452, 2338533; 712978, 2338207; 712867, 2337997; 712845, 2337873; 713121, 2337952; 713150, 2337771; 713181, 2337784; 713184, 2337801; 713189, 2337803; 713196, 2337826; 713191, 2337829; 713197, 2337831; 713204, 2337853; 713303, 2337864; 713482, 2338023; 713503, 2338044; 713520, 2338067; 713525, 2338081; 713557, 2338108;

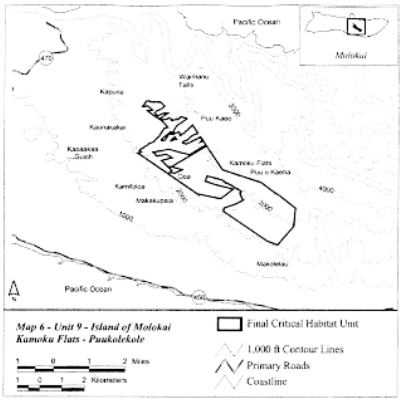
713664, 2338205; 713713, 2338254; 713731, 2338228; return to starting point.

(B) This unit excludes two areas:

(*1*) Unit excludes an area (2 ha; 4 ac) consisting of the following 5 boundary points: Start at 712804, 2337632; 712923, 2337724; 712990, 2337608; 712917, 2337600; 712748, 2337553; return to starting point.

(*2*) Unit excludes an area (5 ha; 13 ac) consisting of the following 10 boundary points: Start at 712742, 2337968; 712839, 2337857; 712748, 2337850; 712646, 2337870; 712632, 2337823; 712481, 2337590; 712425, 2337550; 712313, 2337564; 712299, 2337574; 712360, 2337661; return to starting point.

(C) Note: Unit 9 is depicted on Map 6–Unit 9–Island of Molokai, which follows:



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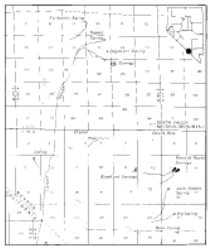
Ash Meadows Naucorid (Ambrysus amargosus)

Nevada, Nye County, Point of Rocks Springs and their immediate outflows in SE 1/4 sec. 7, T18S, R51E.

Known primary constituent elements include flowing warm water over rock and gravel substrate.

Note:

Map follows:



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[42 FR 47840, Sept. 22, 1977]

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