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Code of Federal Regulations

50

Part 17 (§ 17.95(c) to end of § 17.95)

Revised as of October 1, 2008

Wildlife and Fisheries

Containing a codification of documents of general applicability and future effect

As of October 1, 2008

With Ancillaries

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Administration

A Special Edition of the Federal Register

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Table of Contents

	Page
Explanation	v
Title 50:	
Chapter I—United States Fish and Wildlife Service, Department of the Interior (Continued)	3
Finding Aids:	
Table of CFR Titles and Chapters	831
Alphabetical List of Agencies Appearing in the CFR	851
List of CFR Sections Affected	861

Cite this Code: CFR

To cite the regulations in this volume use title, part and section number. Thus, 50 CFR 17.95 *refers to title 50, part 17, section 95.*

Explanation

The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the Federal Government. The Code is divided into 50 titles which represent broad areas subject to Federal regulation. Each title is divided into chapters which usually bear the name of the issuing agency. Each chapter is further subdivided into parts covering specific regulatory areas.

Each volume of the Code is revised at least once each calendar year and issued on a quarterly basis approximately as follows:

Title 1 through Title 16.....as of January 1
Title 17 through Title 27.....as of April 1
Title 28 through Title 41.....as of July 1
Title 42 through Title 50.....as of October 1

The appropriate revision date is printed on the cover of each volume.

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The contents of the Federal Register are required to be judicially noticed (44 U.S.C. 1507). The Code of Federal Regulations is prima facie evidence of the text of the original documents (44 U.S.C. 1510).

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The Code of Federal Regulations is kept up to date by the individual issues of the Federal Register. These two publications must be used together to determine the latest version of any given rule.

To determine whether a Code volume has been amended since its revision date (in this case, October 1, 2008), consult the ''List of CFR Sections Affected (LSA),'' which is issued monthly, and the ''Cumulative List of Parts Affected,'' which appears in the Reader Aids section of the daily Federal Register. These two lists will identify the Federal Register page number of the latest amendment of any given rule.

EFFECTIVE AND EXPIRATION DATES

Each volume of the Code contains amendments published in the Federal Register since the last revision of that volume of the Code. Source citations for the regulations are referred to by volume number and page number of the Federal Register and date of publication. Publication dates and effective dates are usually not the same and care must be exercised by the user in determining the actual effective date. In instances where the effective date is beyond the cut-off date for the Code a note has been inserted to reflect the future effective date. In those instances where a regulation published in the Federal Register states a date certain for expiration, an appropriate note will be inserted following the text.

OMB CONTROL NUMBERS

The Paperwork Reduction Act of 1980 (Pub. L. 96–511) requires Federal agencies to display an OMB control number with their information collection request.

Many agencies have begun publishing numerous OMB control numbers as amendments to existing regulations in the CFR. These OMB numbers are placed as close as possible to the applicable recordkeeping or reporting requirements.

OBSOLETE PROVISIONS

Provisions that become obsolete before the revision date stated on the cover of each volume are not carried. Code users may find the text of provisions in effect on a given date in the past by using the appropriate numerical list of sections affected. For the period before January 1, 1986, consult either the List of CFR Sections Affected, 1949–1963, 1964–1972, or 1973–1985, published in seven separate volumes. For the period beginning January 1, 1986, a ''List of CFR Sections Affected'' is published at the end of each CFR volume.

INCORPORATION BY REFERENCE

What is incorporation by reference? Incorporation by reference was established by statute and allows Federal agencies to meet the requirement to publish regulations in the Federal Register by referring to materials already published elsewhere. For an incorporation to be valid, the Director of the Federal Register must approve it. The legal effect of incorporation by reference is that the material is treated as if it were published in full in the Federal Register (5 U.S.C. 552(a)). This material, like any other properly issued regulation, has the force of law.

What is a proper incorporation by reference? The Director of the Federal Register will approve an incorporation by reference only when the requirements of 1 CFR part 51 are met. Some of the elements on which approval is based are:

(a) The incorporation will substantially reduce the volume of material published in the Federal Register.

(b) The matter incorporated is in fact available to the extent necessary to afford fairness and uniformity in the administrative process.

(c) The incorporating document is drafted and submitted for publication in accordance with 1 CFR part 51.

Properly approved incorporations by reference in this volume are listed in the Finding Aids at the end of this volume.

What if the material incorporated by reference cannot be found? If you have any problem locating or obtaining a copy of material listed in the Finding Aids of this volume as an approved incorporation by reference, please contact the agency that issued the regulation containing that incorporation. If, after contacting the agency, you find the material is not available, please notify the Director of the Federal Register, National Archives and Records Administration, Washington DC 20408, or call 202-741-6010.

CFR INDEXES AND TABULAR GUIDES

A subject index to the Code of Federal Regulations is contained in a separate volume, revised annually as of January 1, entitled CFR INDEX AND FINDING AIDS. This volume contains the Parallel Table of Statutory Authorities and Agency Rules (Table I). A list of CFR titles, chapters, and parts and an alphabetical list of agencies publishing in the CFR are also included in this volume.

An index to the text of ''Title 3—The President'' is carried within that volume.

The Federal Register Index is issued monthly in cumulative form. This index is based on a consolidation of the ''Contents'' entries in the daily Federal Register.

A List of CFR Sections Affected (LSA) is published monthly, keyed to the revision dates of the 50 CFR titles.

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There are no restrictions on the republication of material appearing in the Code of Federal Regulations.

INQUIRIES

For a legal interpretation or explanation of any regulation in this volume, contact the issuing agency. The issuing agency's name appears at the top of odd-numbered pages.

For inquiries concerning CFR reference assistance, call 202–741–6000 or write to the Director, Office of the Federal Register, National Archives and Records Administration, Washington, DC 20408 or e-mail fedreg.info@nara.gov.

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RAYMOND A. MOSLEY,
Director,
Office of the Federal Register.
October 1, 2008.

THIS TITLE

Title 50—FISH AND WILDLIFE is composed of nine volumes. The parts in these volumes are arranged in the following order: Parts 1–16; part 17 (17.1 to 17.95(b)), part 17 (17.95(c) to end of 17.95), part 17 (17.96 to 17.99(h)), part 17 (17.99(i) to end of part 17), parts 18–199, parts 200–599, parts 600–659 and part 660 to End. The first six volumes (parts 1–16, part 17 (17.1 to 17.95(b)), part 17 (17.95(c) to end of 17.95), part 17 (17.96 to 17.99(h)), part 17 (17.99(i) to end of part 17), and parts 18–199) contain the current regulations issued under chapter I—United States Fish and Wildlife Service, Department of the Interior. The seventh volume (parts 200–599) contains the current regulations issued under chapter II—National Marine Fisheries Service, National Oceanic and Atmospheric Administration, Department of Commerce; chapter III—International Fishing and Related Activities, chapter IV—Joint Regulations (United States Fish and Wildlife Service, Department of the Interior and National Marine Fisheries Service, National Oceanic and Atmospheric Administration, Department of Commerce); Endangered Species Committee regulations; and chapter V—Marine Mammal Commission. The eighth and ninth volumes (parts 600–659 and part 660 to End) contain the current regulations issued under chapter VI—Fishery Conservation and Management, National Oceanic and Atmospheric Administration, Department of Commerce. The contents of these volumes represent all current regulations codified under this title of the CFR as of October 1, 2008.

Alphabetical listings of endangered and threatened wildlife and plants appear in §§ 17.11 and 17.12.

The OMB control numbers for the National Oceanic and Atmospheric Administration appear in 15 CFR 902.1.

For this volume, Cheryl E. Sirofchuck was Chief Editor. The Code of Federal Regulations publication program is under the direction of Michael L. White, assisted by Ann Worley.

Title 50—Wildlife and Fisheries

(This book contains part 17, § 17.95(c) to end of § 17.95)

Part

CHAPTER I—United States Fish and Wildlife Service, Department of the Interior (Continued) 17

CHAPTER I—UNITED STATES FISH AND WILDLIFE SERVICE, DEPARTMENT OF THE INTERIOR (CONTINUED)

SUBCHAPTER B—TAKING, POSSESSION, TRANSPORTATION, SALE, PURCHASE, BARTER, EXPORTATION, AND IMPORTATION OF WILDLIFE AND PLANTS (CONTINUED)

Part		*Page*
17	Endangered and threatened wildlife and plants (Continued)	5

SUBCHAPTER B—TAKING, POSSESSION, TRANSPORTATION, SALE, PURCHASE, BARTER, EXPORTATION, AND IMPORTATION OF WILDLIFE AND PLANTS (CONTINUED)

PART 17—ENDANGERED AND THREATENED WILDLIFE AND PLANTS (CONTINUED)

Subpart I—Interagency Cooperation (Continued)

Sec.

17.95 Critical habitat—fish and wildlife. (Continued)

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 I—Interagency Cooperation (Continued)

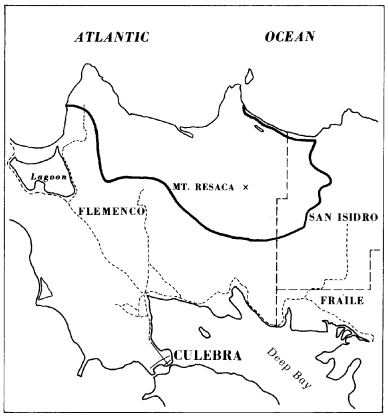
EDITORIAL NOTE: Paragraphs (a)–(b) of §17.95 appear in 50 Part 17, §§17.1 to 17.95(b).

§17.95 Critical habitat—fish and wildlife. (Continued)

(c) *Reptiles.*

CULEBRA ISLAND GIANT ANOLE (*Anolis roosevetti*)

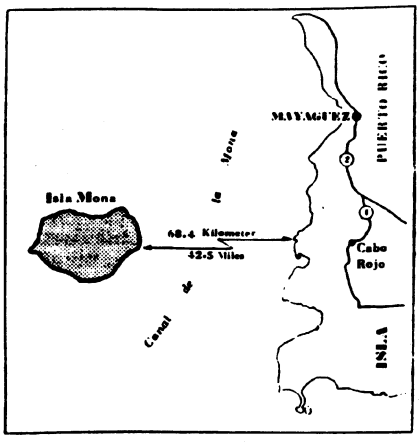
NOTE: No text. Map follows:



MONA BOA (*Epicrates monensis monensis*)

Commonwealth of Puerto Rico. Mona Island—entire island.

NOTE: Map follows:



AMERICAN CROCODILE (*Crocodylus acutus*)

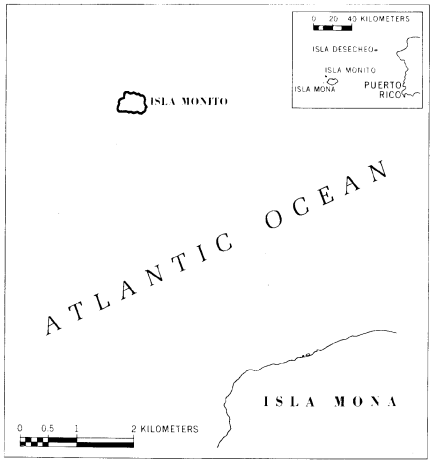
Florida. All land and water within the following boundary: Beginning at the easternmost tip of Turkey Point, Dade County, on the coast of Biscayne Bay; thence southeastward along a straight line to Christmas Point at the southernmost tip of Elliott Key; thence southwestward along a line following the 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.

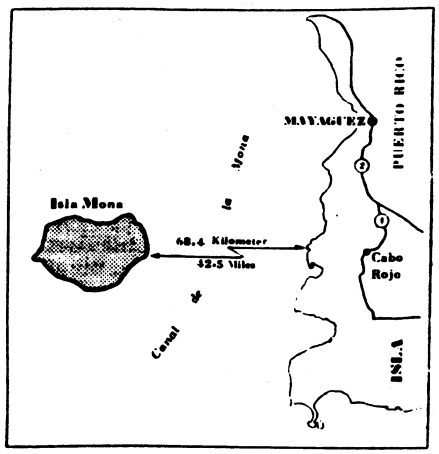
NOTE: Map follows:



MONA GROUND IGUANA (*Cyclura stejnegeri*)

Commonwealth of Puerto Rico. Mona Island—entire island.

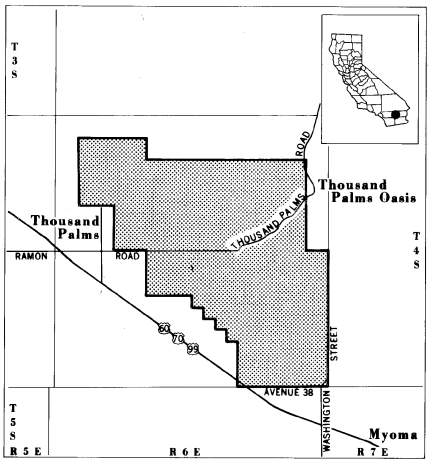
NOTE: Map follows:



COACHELLA VALLEY FRINGE-TOED LIZARD (*Uma inornata*)

California. Riverside County. S½ Section 5, SE¼ Section 6, E½ Section 7, all of sections 8 through 11, W½ Section 12, W½ Section 13, all of sections 14 through 16, E½ Section 17, E½NW¼ Section 17, E½SW¼ Section 17, all of sections 21 through 26, E½NW¼, NW¼SE¼, E½SE¼, NE¼ Section 27, all of sections 35 and 36, T4S R6E.

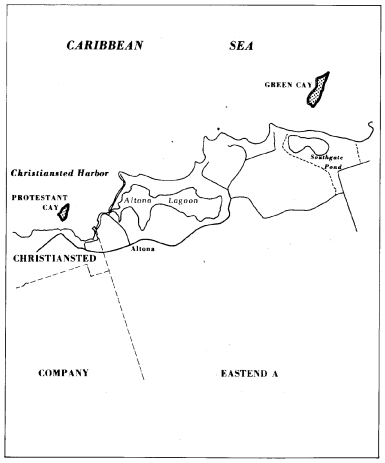
NOTE: Map follows:



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.

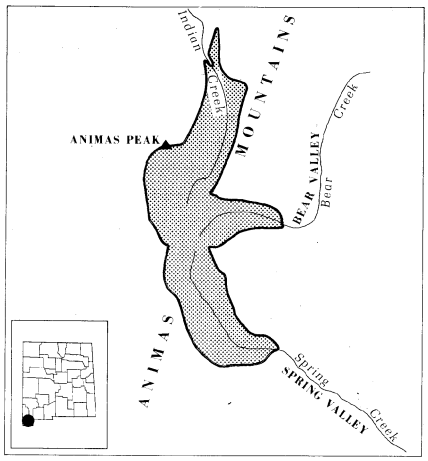
NOTE: Map follows:



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:



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 ½ 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 ½ 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 ½ 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:

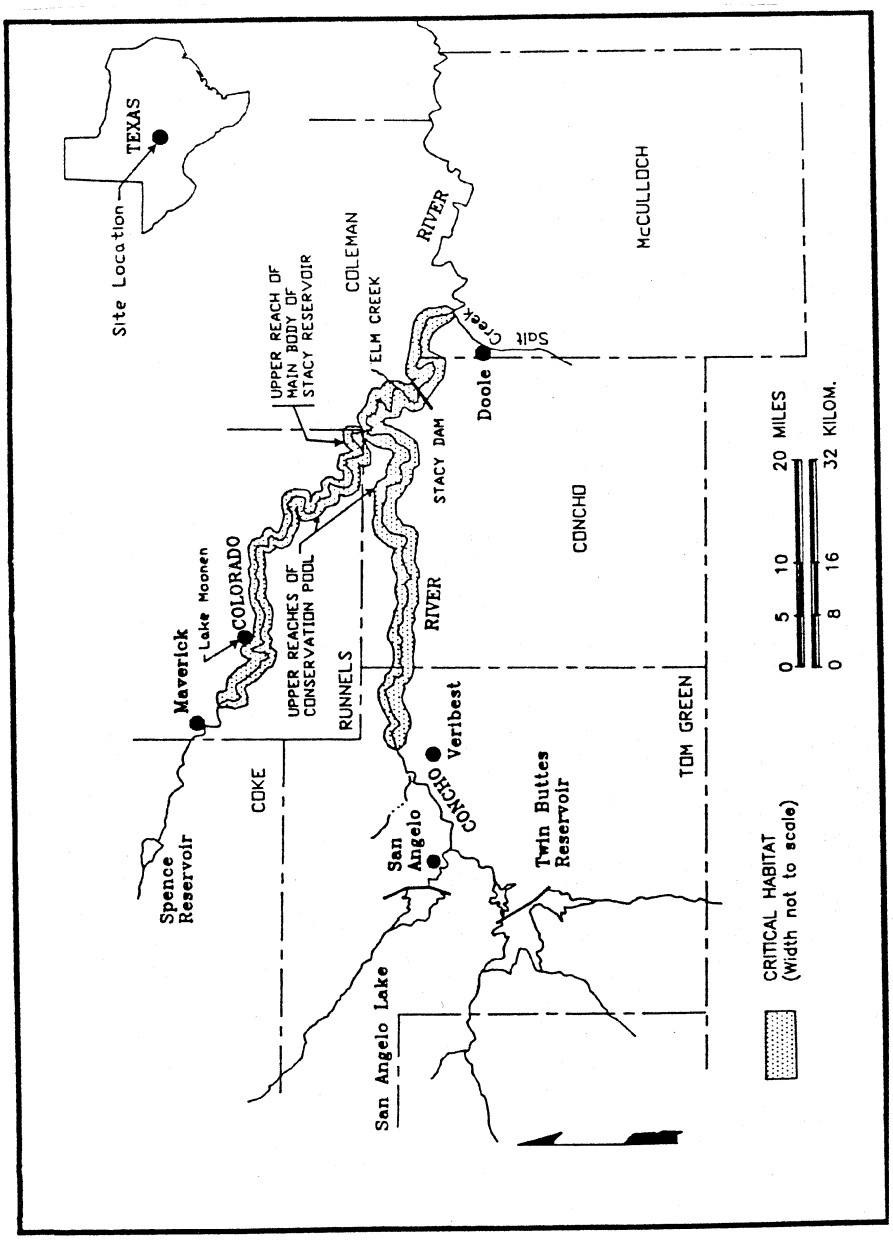
(a) A continous, daily flow of 10.0 cubic feet/second (cfs) in the Colorado River from E.V. Spence Reservoir to Ballinger, Texas.

(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.

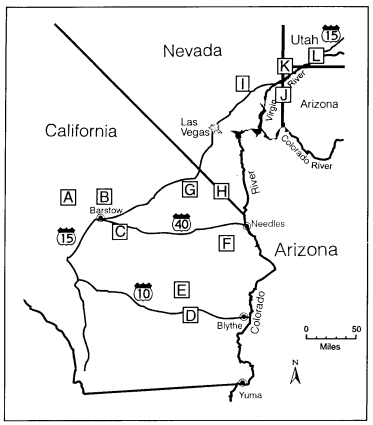
NOTE: Map follows:


Site Location
TEXAS
COLEMAN
McCULLOCH
RUNNELS
CONCHO
TOM GREEN
COKE
UPPER REACH OF MAIN BODY OF STACY RESERVOIR
ELM CREEK
RIVER
Salt Creek
Doole
STACY DAM
Maverick
Lake Moonen
COLORADO
UPPER REACHES OF CONSERVATION POOL
RIVER
Veribest
CONCHO
San Angelo
Twin Buttes Reservoir
Spence Reservoir
San Angelo Lake
0 5 10 20 MILES
0 8 16 32 KILOM.
CRITICAL HABITAT
(Width not to scale)

DESERT TORTOISE—MOJAVE POPULATION
(*Gopherus agassizii*)

Index map of approximate locations of critical habitat units follows:

MAP 1



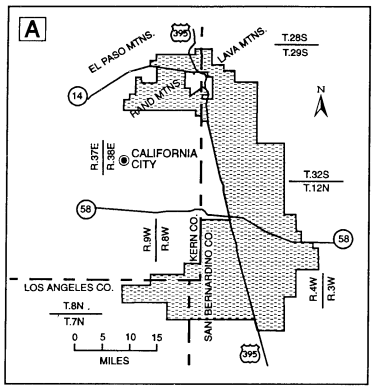
California. Areas of land as follows:

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



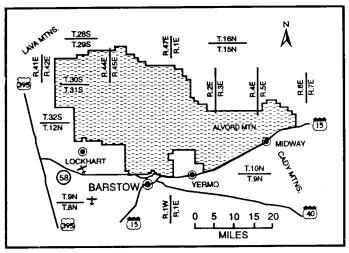
2. *Superior-Cronese Unit.* San Bernardino County. From BLM Maps: Cuddeback Lake 1978, Soda Mts. 1978, Victorville 1978, and Newberry Springs 1978. (Index map location B).

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.

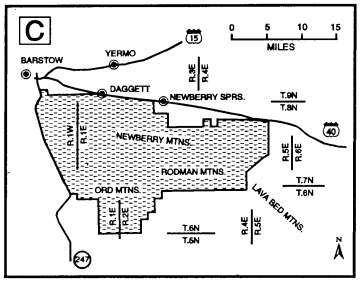
MAP 3



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

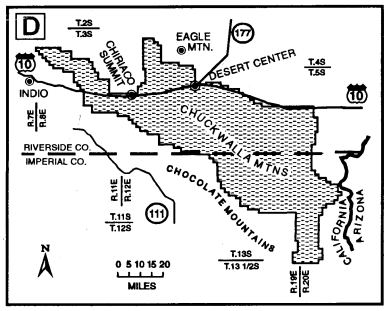


4. *Chuckwalla Unit.* Imperial and Riverside Counties. From BLM Maps: Chuckwalla #18 1978, Parker-Blythe #16 1978, Salton Sea #20 1978, and Midway Well #21 1979. (Index map location D).

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 ½ sec. 26, S ½ 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 ½ 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.

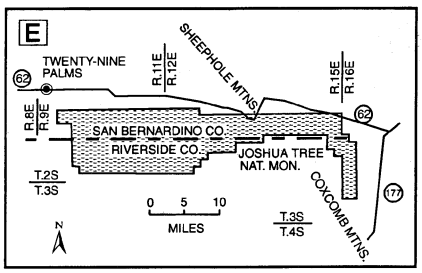
MAP 5



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

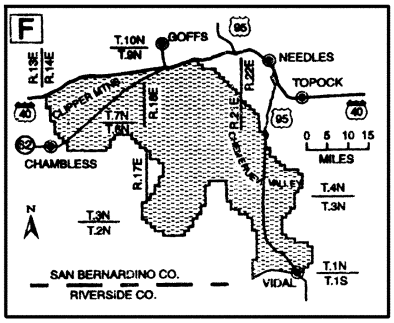


6. *Chemehuevi Unit.* San Bernardino County. From BLM Maps: Sheep Hole Mts. 1978, Parker 1979, Needles 1978, and Amboy 1991. (Index map location F).

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 S½ S½ sec. 27, SW¼ SW¼ sec. 26, and W½ W½ sec. 35.

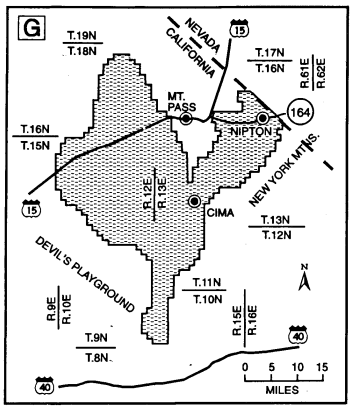
MAP 7



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. 15½ N., R. 14 E., secs. 24 and 25; T. 15½ N., R. 15 E., secs. 19–36; T. 15½ 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. 12½ 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

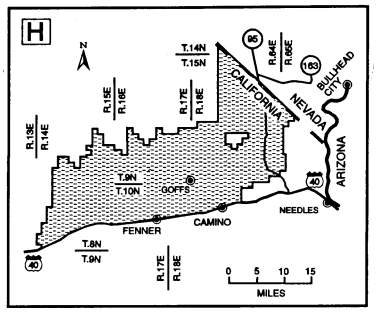


8. *Piute-Eldorado Unit.* San Bernardino County. From BLM Maps: Amboy 1991, Needles 1978, and Ivanpah 1979. (Index map location H).

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

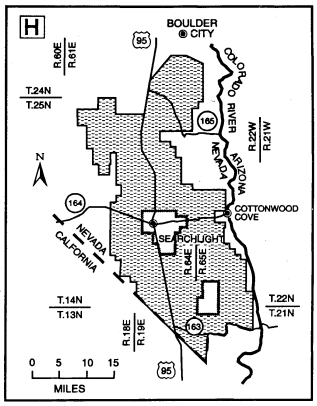


Nevada. Areas of land as follows:

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 ½ S., R. 64 E., secs. 31–36 except that portion of sec. 31 lying northwesterly of the powerline; T. 23 ½ 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 ½ sec. 16, E ½ sec. 21, secs. 22–27, E ½ 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 ½ 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

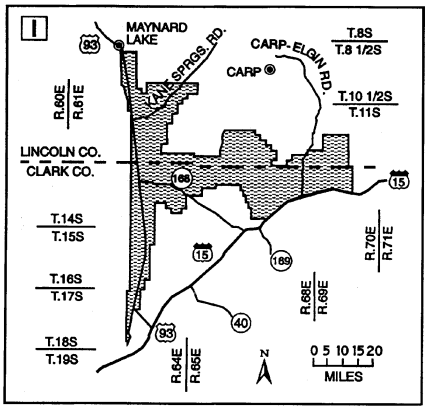


10. *Mormon Mesa Unit.* Clark and Lincoln Counties. From BLM Maps: Pahranagat 1978, Clover Mts. 1978, Overton 1978, Indian Springs 1979, Lake Mead 1979, and Las Vegas 1986. (Index map location I).

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. 12½ 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 ½ 26, N ½ 27, N ½ and SW ¼ sec. 28, 29–32, and W ½ 33; T. 13 S., R. 66 E., secs. 1–26, W ½ 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. 13½ S., R. 63 E., secs. 31–36; T. 13½ 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 ½ sec. 2, 12, E ½ sec. 13, and E ½ 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.

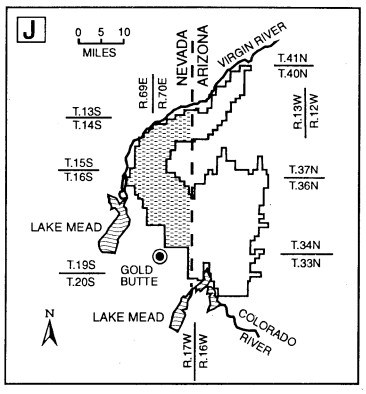
MAP 11



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.

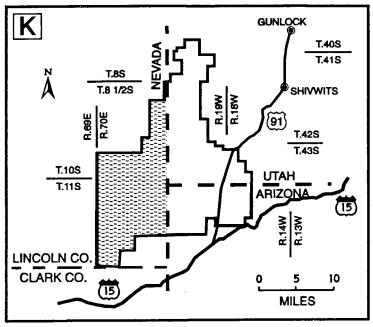
MAP 12



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

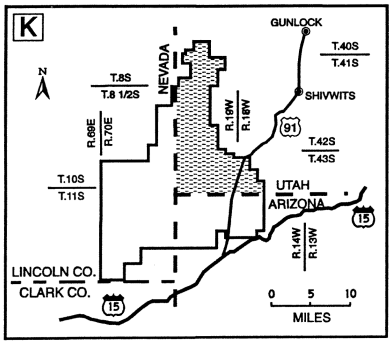


Utah. Areas of land as follows:

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.

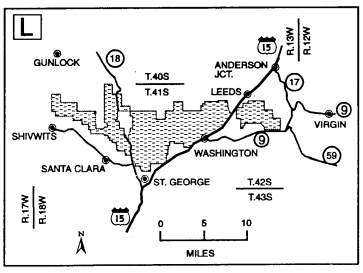
MAP 14



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

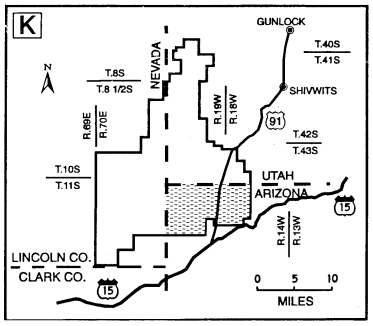


Arizona. Areas of land as follows:

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.

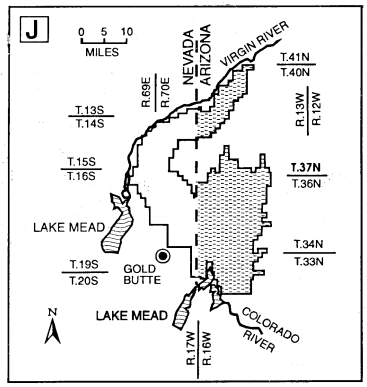
MAP 16



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

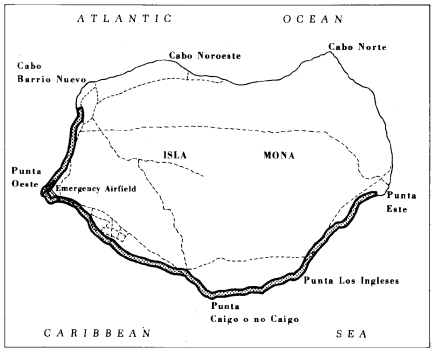


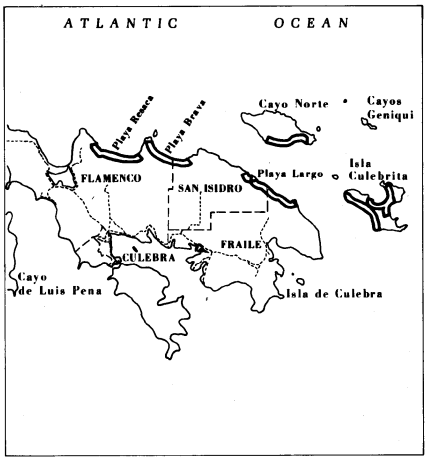
Primary constituent elements: Desert lands that are used or potentially used by the desert tortoise for nesting, sheltering, foraging, dispersal, or gene flow.

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.

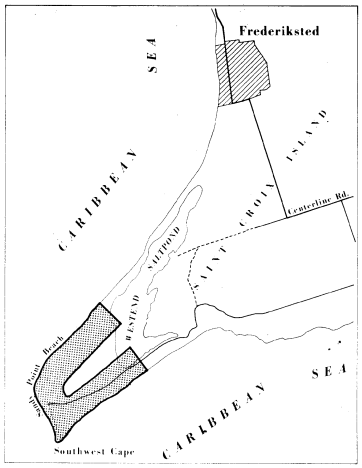




LEATHERBACK SEA TURTLE (*Dermochelys coriacea*)

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:

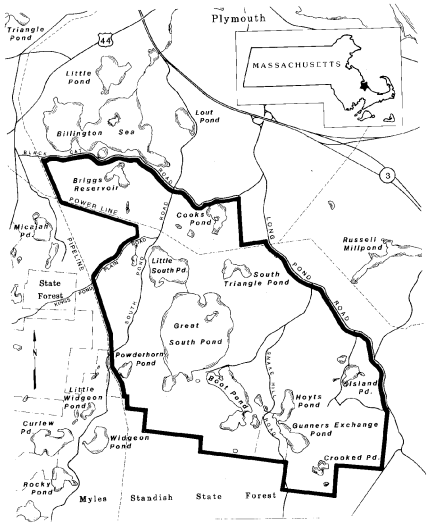


PLYMOUTH RED-BELLIED TURTLE (*Chrysemys rubriventris bangsi*)

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:



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) The primary constituent elements (PCEs) of critical habitat for the Alameda whipsnake (*Masticophis lateralis euryxanthus*) are the habitat components that provide:

(i) *Scrub/shrub communities with a mosaic of open and closed canopy:* Scrub/shrub vegetation dominated by low- to medium-stature woody shrubs with a mosaic of open and closed canopy, as characterized by the chamise, chamise-eastwood manzanita, chaparral whitethorn, and interior live oak shrub vegetation series occurring at elevations from sea level to approximately 3,850 feet (1,170 meters). Such scrub/shrub vegetation within these series form a pattern of open and closed canopy used by the Alameda whipsnake for shelter from predators; temperature regulation, because it provides sunny and shady locations; prey-viewing opportunities; and nesting habitat and substrate. These features contribute to support a prey base consisting of western fence lizards and other prey species such as skinks, frogs, snakes, and birds.

(ii) *Woodland or annual grassland plant communities contiguous to lands containing PCE 1:* Woodland or annual grassland vegetation series comprised of one or more of the following: Blue oak, coast live oak, California bay, California buckeye, and California annual grassland vegetation series. This mosaic of vegetation supports a prey base consisting of western fence lizards and other prey species such as skinks, frogs, snakes, and birds, and provides opportunities for: Foraging, by allowing snakes to come in contact with and visualize, track, and capture prey (especially western fence lizards, along with other prey such as skinks, frogs, birds); short and long distance dispersal within, between, or adjacent to areas containing essential features (*i.e.*, PCE 1 or PCE 3); and contact with other Alameda whipsnakes for mating and reproduction.

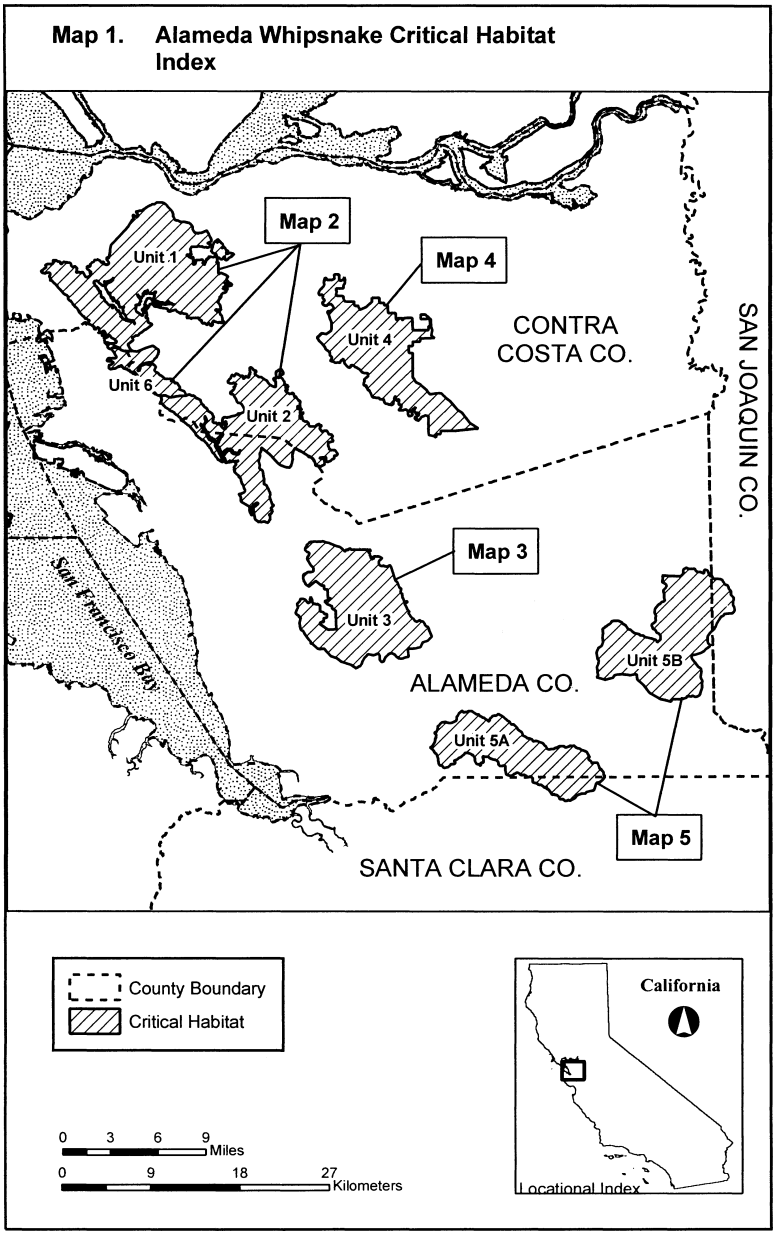
(iii) *Lands containing rock outcrops, talus, and small mammal burrows.* These areas are used for retreats (shelter), hibernacula, foraging, and dispersal, and provide additional prey population support functions.

(3) Critical habitat does not include manmade structures existing on the effective date of this rule and not containing one or more of the primary constituent elements, such as buildings, aqueducts, airports, and roads, and the land on which such structures are located.

Critical Habitat Unit Maps

(4) GIS data layers defining map units were created on a base of USGS 7.5′ quadrangles, and critical habitat units were then mapped using Universal Transverse Mercator (UTM) coordinates.

(5) Note: Index map (Map 1) follows:



(6) Unit 1: Tilden-Briones Unit, Alameda and Contra Costa Counties, California.

(i) From USGS 1:24,000 scale quadrangles Benecia, Richmond, Briones Valley, Walnut Creek. Land bounded by the following UTM Zone 10, NAD83 coordinates (E, N): 559589, 4200848; 559600, 4200866; 559610, 4200873; 559622, 4200883; 559668, 4200910; 559710, 4200940; 559715, 4200943; 559727, 4200952; 559753, 4200969; 559781, 4200994; 559806, 4201021; 559817, 4201037; 559840,

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(ii) Note: Map of Unit 1 is provided in paragraph (c)(7)(ii) of this section.

(7) Unit 2: Oakland-Las Trampas, Alameda and Contra Costa Counties, California.

(i) From USGS 1:24,000 scale quadrangles Oakland East, Las Trampas Ridge, Diablo, and Hayward. Land bounded by the following UTM Zone 10, NAD83 coordinates (E, N): 571706, 4187420; 571707, 4187421; 571716, 4187451; 571727, 4187468; 571744, 4187490; 571756, 4187508; 571757, 4187509; 571759, 4187532; 571763, 4187571; 571791, 4187646; 571825, 4187732; 571832, 4187744; 571768, 4187924; 571751, 4187967; 571760, 4187990; 571768, 4188011; 571781, 4188026; 571784, 4188027; 571801, 4188031; 571833, 4188037; 571847, 4188046; 571858, 4188064; 571875, 4188082; 571889, 4188088; 571893, 4188091; 571896, 4188095; 571896, 4188099; 571894, 4188105; 571889, 4188115; 571883, 4188127; 571882, 4188131; 571881, 4188133; 571874, 4188139; 571867, 4188142; 571869, 4188144; 571870, 4188147; 571873, 4188153; 571877, 4188157; 571881, 4188161; 571886, 4188165; 571886, 4188165; 571887, 4188165; 571887, 4188166; 571888, 4188166; 571970, 4188166; 572045, 4188160; 572146, 4188147; 572259, 4188110; 572340, 4188072; 572447, 4188022; 572560, 4187984; 572686, 4187965; 572824, 4187978; 572943, 4188003; 573050, 4188034; 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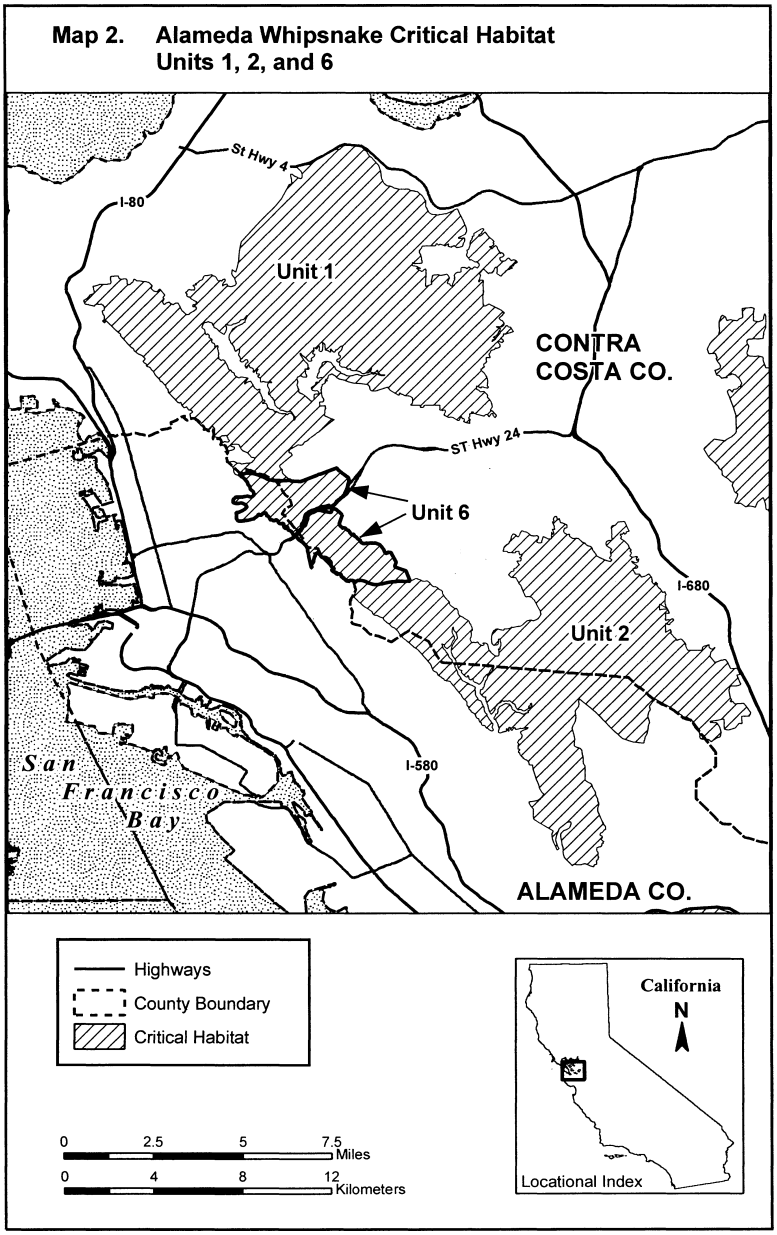
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(ii) Note: Map of Unit 2 (Unit 1, Unit 2, and Unit 6 (Map 2) follows:



(8) Unit 3: Hayward-Pleasanton Ridge, Alameda County, California.

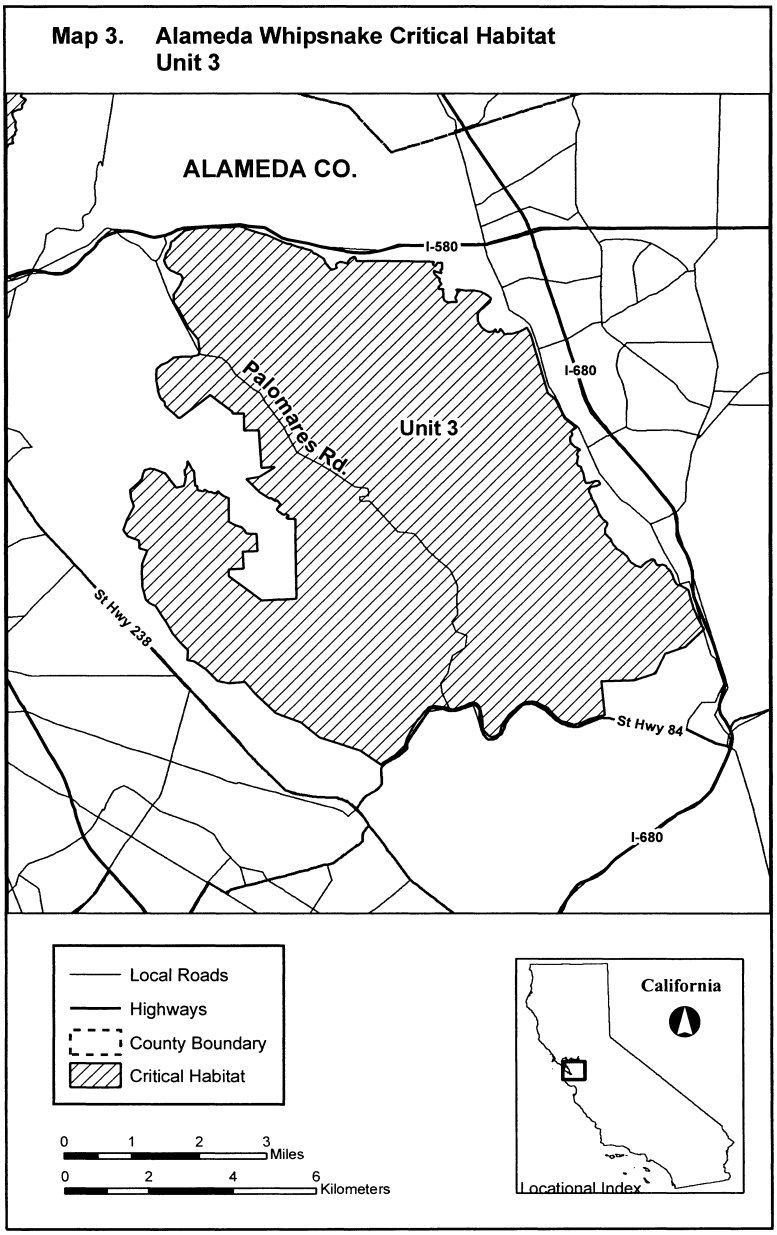
(i) From USGS 1:24,000 scale quadrangles Hayward, Newark, Dublin, and Niles. Land bounded by the following UTM Zone 10, NAD83 coordinates (E, N): 585269, 4165999; 585371, 4166270; 585519, 4166567; 585450, 4166770; 585431, 4166955; 585623, 4167122; 585713, 4167237; 585733, 4167344; 585763, 4167406; 585800, 4167440; 585819, 4167443; 585875, 4167470; 585920, 4167470;

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(ii) Note: Map of Unit 3 (Map 3) follows:



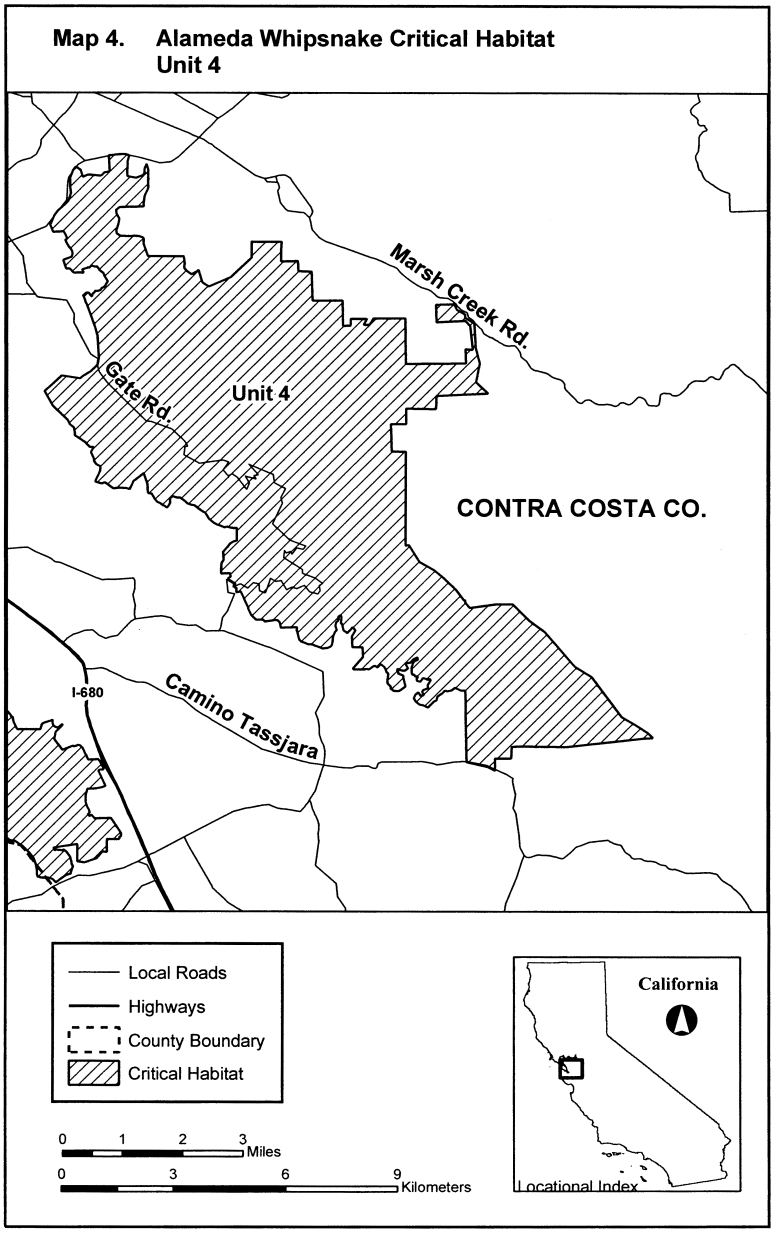
(9) Unit 4: Mount Diablo-Black Hills, Contra Costa County, California.

(i) From USGS 1:24,000 scale quadrangles Diablo, Tassajara, Walnut Creek, Clayton. Land bounded by the following UTM Zone 10, NAD83 coordinates (E, N): 587469, 4194136; 587939, 4194568; 588429, 4194484; 588517, 4194568; 588718, 4194677; 588869, 4194828; 588894, 4194853; 588913, 4194953; 588927, 4195024; 588899, 4195658; 588832, 4195885; 588601, 4196521; 588591, 4196523;

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(ii) Note: Map of Unit 4 (Map 4) follows:



(10) Unit 5A: Cedar Mountain, Alameda and San Joaquin Counties, California.

(i) From USGS 1:24,000 scale quadrangles Altamont, Midway, Mendenhall Springs, and Cedar Mtn. Land bounded by the following UTM Zone 10, NAD83 coordinates (E, N): 624962, 4170579; 625090, 4170515; 625154, 4170515; 625282, 4170515; 625474, 4170515; 625645, 4170558; 625731, 4170366; 625837, 4170216; 626179, 4170216; 626478, 4170066; 626585, 4170066; 626607, 4170195;

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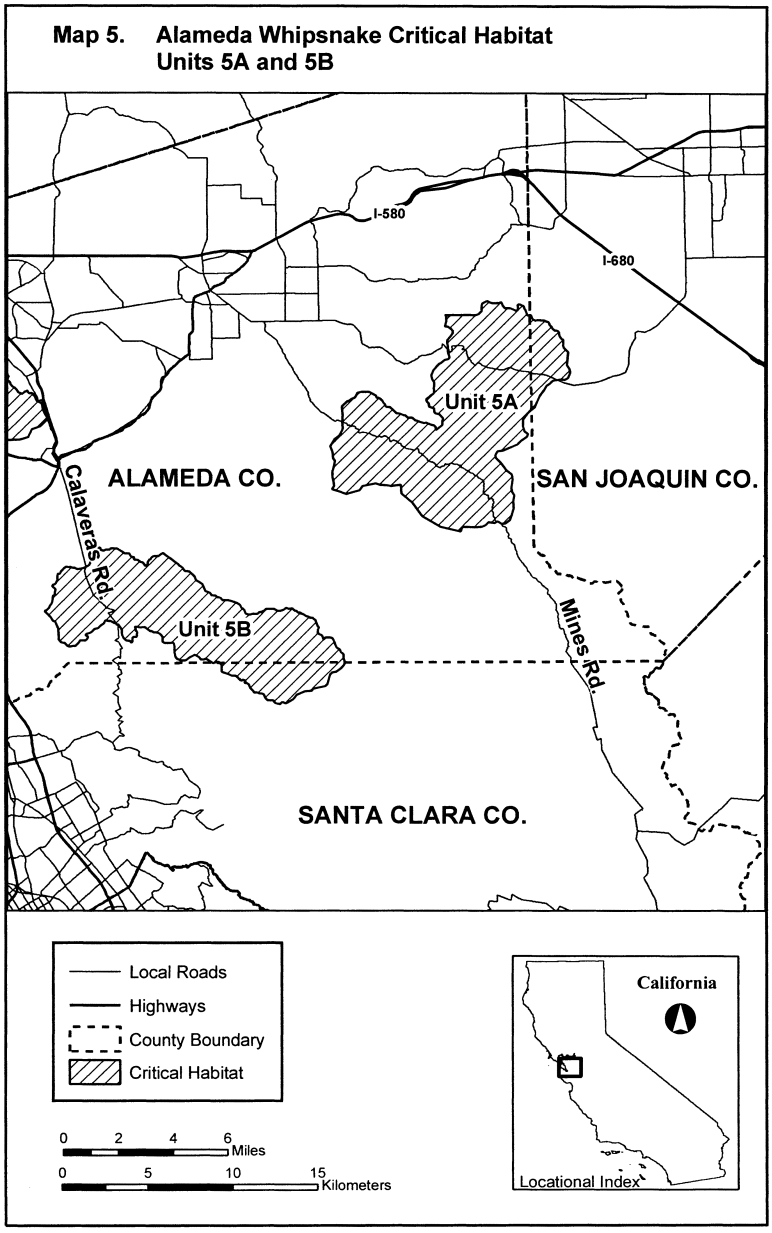
(ii) Note: Map of Unit 5A is provided in paragraph (11)(ii) of this section.

(11) Unit 5B; Alameda County and Santa Clara County, California.

(i) From USGS 1:24,000 scale quadrangles Niles, La Costa Valley, Mendenhall Springs, Calaveras Reservoir, Mt. Day. Land bounded by the following UTM Zone 10, NAD83 coordinates (E, N): 602197, 4155953; 602394, 4155892; 602698, 4155953; 602747, 4156027; 603122, 4156019; 603577, 4155710; 603854, 4155726; 603919, 4155564; 604114, 4155499; 604130, 4155353; 604634, 4155174; 604797, 4154979; 605138, 4155483; 605561, 4155580; 605805, 4155743; 606943, 4154914; 607089, 4154702; 607349, 4154670; 607658, 4154410; 607772, 4154166; 608146, 4153922; 608309, 4153499; 608585, 4153402; 608666, 4153255; 608926, 4153255; 609203, 4153125; 609284, 4152979; 609609, 4152995; 610195, 4152816; 610634, 4152394; 610699, 4152198; 611398, 4152198; 611983, 4152475; 612373, 4152475; 612650, 4152361; 613056, 4152540; 613446, 4152524; 613593, 4152361; 614487, 4151955; 614617, 4151961; 614780, 4151820; 614962, 4151397; 614905, 4151070; 615116, 4150964; 615241, 4150715; 615366, 4150801; 615750, 4150782; 616019, 4150206; 616192, 4150109; 616413, 4149812; 616499, 4149254; 616134, 4148909; 615641, 4148634; 615372, 4147941; 614624, 4147768; 614579, 4147670; 614189, 4147648; 613874, 4147530; 613683, 4147420; 613492, 4147170; 613184, 4147002; 613007, 4146920; 612824, 4147011; 612733, 4146904; 612627, 4146904; 612475, 4146920; 612323, 4147102; 611959, 4147102; 611701, 4147481; 611337, 4147588; 611185, 4147542; 610866, 4148043; 610638, 4148134; 610699, 4148241; 610623, 4148301; 610365, 4148286; 610365, 4148362; 610092, 4148575; 609849, 4148575; 609257, 4148800; 609257, 4149227; 609090, 4149379; 608771, 4149288; 608391, 4149531; 608057, 4149516; 607693, 4149789; 607161, 4149470; 606645, 4149546; 606478, 4149956; 606463, 4150457; 606387, 4150518; 605901, 4150472; 605795, 4150563; 605750, 4150913; 605628, 4151034;

605036, 4151186; 604763, 4151398; 604186, 4151429; 604292, 4151095; 604277, 4150821; 604034, 4150791; 603973, 4150472; 603867, 4150609; 603533, 4150746; 603396, 4151262; 603199, 4151565; 603108, 4151550; 603047, 4151656; 602759, 4151778; 602425, 4151793; 602377, 4151646; 602030, 4151353; 601817, 4151292; 601301, 4150943; 601438, 4150852; 601377, 4150670; 600982, 4150624; 600724, 4150320; 600239, 4150290; 600087, 4150487; 599829, 4150548; 599737, 4150700; 599707, 4151292; 599586, 4151626; 598902, 4152355; 599039, 4152385; 599191, 4152552; 599510, 4153372; 599540, 4153645; 599358, 4153827; 599555, 4153949; 599662, 4154161; 599677, 4154526; 599798, 4154541; 600056, 4154860; 600421, 4154936; 600922, 4154799; 601392, 4154966; 601514, 4155042; 601575, 4155179; 601544, 4155437; 601711, 4155558; 601833, 4155877; 602106, 4156074; returning to 602197, 4155953.

(ii) Note: Map of Unit 5A and Unit 5B (Map 5) follows:



(12) Unit 6: Caldecott Tunnel, Alameda and Contra Costa Counties, California.

(i) From USGS 1:24,000 scale quadrangles Briones Valley, and Oakland East. Land bounded by the following UTM Zone 10, NAD83 coordinates (E, N): 566273, 4191731; 566273, 4191775; 566276, 4191777; 566275, 4191780; 566294, 4191824; 566332, 4191876; 566329, 4191875; 566330, 4191877; 566390, 4191931; 566415, 4191935; 566458, 4191942; 566525, 4191942; 566600, 4191940;

566669, 4191935; 566750, 4191950; 566752, 4191952; 566839, 4191957; 566944, 4191974; 567064, 4191950; 567124, 4191941; 567186, 4191988; 567240, 4192047; 567227, 4192102; 567203, 4192172; 567156, 4192217; 567079, 4192271; 567066, 4192295; 567040, 4192363; 567037, 4192422; 567001, 4192463; 566959, 4192511; 566950, 4192542; 566937, 4192585; 566909, 4192628; 566891, 4192658; 566845, 4192729; 566798, 4192772; 566741, 4192832; 566727, 4192843; 566723, 4192842; 566687, 4192855; 566647, 4192882; 566625, 4192904; 566624, 4192905; 566624, 4192906; 566627, 4192907; 566650, 4192915; 566650, 4192915; 566776, 4192988; 566895, 4193034; 567014, 4193041; 567193, 4193015; 567365, 4192955; 567470, 4192915; 567596, 4192862; 567735, 4192796; 567874, 4192737; 568059, 4192697; 568154, 4192688; 568198, 4192684; 568350, 4192684; 568516, 4192684; 568668, 4192690; 568794, 4192710; 568816, 4192719; 568885, 4192674; 569349, 4192659; 570105, 4192947; 570104, 4192949; 570201, 4192984; 570206, 4192985; 570967, 4193256; 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(ii) Note: Map of Unit 6 provided in paragraph (7)(ii) of this section.

(d) *Amphibians.*

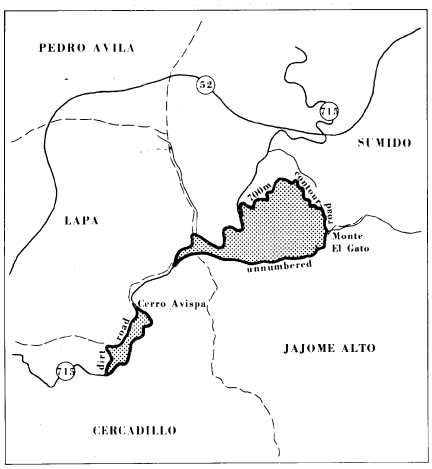
GOLDEN COQUI (*Eleutherodactylus jasperi*)

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.

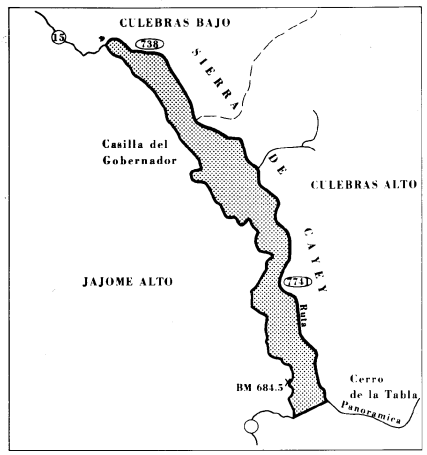
(3) Sierra de Cayey-elevations above 700 meters: southeast from the junction of Highways 738 and 15 along Highway 15 to point .5 kilometer south of Benchmark 684.5, northeast from this point in a line to a point on Highway 7741 two kilometers south of the junction of Highway 738 and 7741, north and northwest 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:



Refer to 7.5 minute U.S.G.S. Topographical Map, Cayey, Puerto Rico, 1972.

NOTE: Map follows:



CALIFORNIA RED-LEGGED FROG (*Rana aurora draytonii*)

(1) Critical habitat units are depicted for Alameda, Butte, Contra Costa, El Dorado, Kern, Los Angeles, Marin, Merced, Monterey, Napa, Nevada, San Benito, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Solano, Ventura and Yuba Counties, California, on the maps below.

(2) Within these areas, the primary constituent elements for the California red-legged frog consist of four components:

(i) *Aquatic Breeding Habitat*. Standing bodies of fresh water (with salinities less than 7.0 parts per thousand (ppt)), including: Natural and manmade (e.g., stock) ponds, slow moving streams or pools within streams, and other ephemeral or permanent water bodies that typically become inundated during winter rains and hold water for a minimum of 20 weeks in all but the driest of years.

(ii) *Non-Breeding Aquatic Habitat*. Fresh water habitats as described above, that may or may not hold water long enough for the subspecies to hatch and complete its aquatic life cycle but that do provide for shelter, foraging, predator avoidance, and aquatic dispersal for juvenile and adult California red-legged frogs. Other wetland habitats that would be considered to meet these elements include, but are not limited to: Plunge pools within intermittent creeks; seeps; quiet water refugia during high water flows; and springs of sufficient flow to withstand the summer dry period.

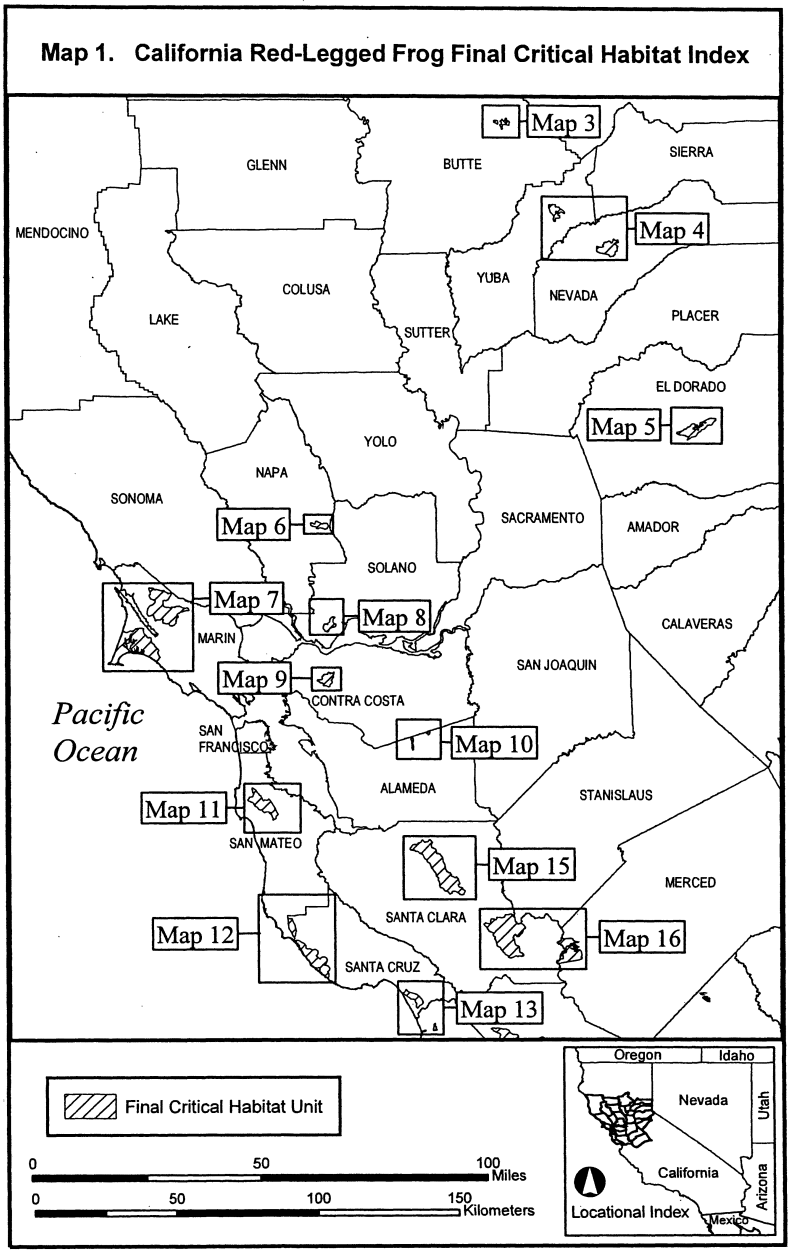
(iii) *Upland Habitat*. Upland areas within 200 ft (60 m) of the edge of the riparian vegetation or dripline surrounding aquatic and riparian habitat and comprised of various vegetational series such as grasslands, woodlands, and/or wetland/riparian plant species that provides the frog shelter, forage, and predator avoidance. Upland features are also essential in that they are needed to maintain the hydrologic, geographic, topographic, ecological, and edaphic features that support and surround the wetland or riparian habitat. These upland features contribute to the filling and drying of the wetland or riparian habitat and are responsible for maintaining suitable periods of pool inundation for larval frogs and their food sources, and provide breeding, non-breeding, feeding, and sheltering habitat for juvenile and adult frogs (e.g., shelter, shade, moisture, cooler temperatures, a prey base, foraging opportunities, and areas for predator avoidance). Upland habitat can include structural features such as boulders, rocks and organic debris (e.g., downed trees, logs), as well as small mammal burrows and moist leaf litter.

(iv) *Dispersal Habitat*. Accessible upland or riparian dispersal habitat within designated units and between occupied locations within 0.7 mi (1.2 km) of each other that allow for movement between such sites. Dispersal habitat includes various natural habitats and altered habitats such as agricultural fields, which also do not contain barriers to dispersal. (An example of a barrier to dispersal is a heavily traveled road constructed without bridges or culverts.) Dispersal habitat does not include moderate to high density urban or industrial developments with large expanses of asphalt or concrete, nor does it include large reservoirs over 50 ac (20 ha) in size, or other areas that do not contain those features identified in paragraphs 2(i), (ii), or (iii) as essential to the conservation of the subspecies.

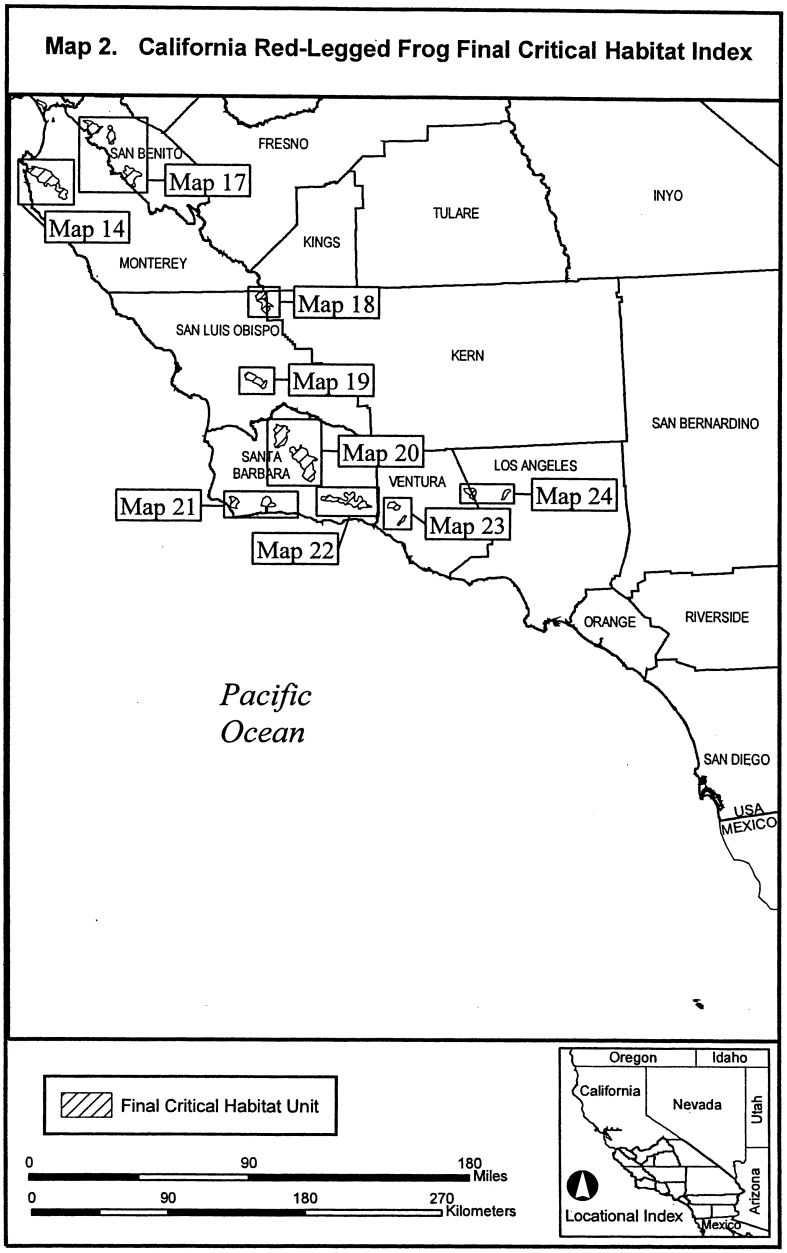
(3) Critical habitat does not include manmade structures existing on May 15, 2006, and not containing one or more of the primary constituent elements, such as buildings,

aqueducts, airports, and roads, and the land on which such structures are located.

(4) Index map of the critical habitat units in northern California for California red-legged frog, follows:



(5) Index map of the critical habitat units in southern California for the California red-legged frog, follows:

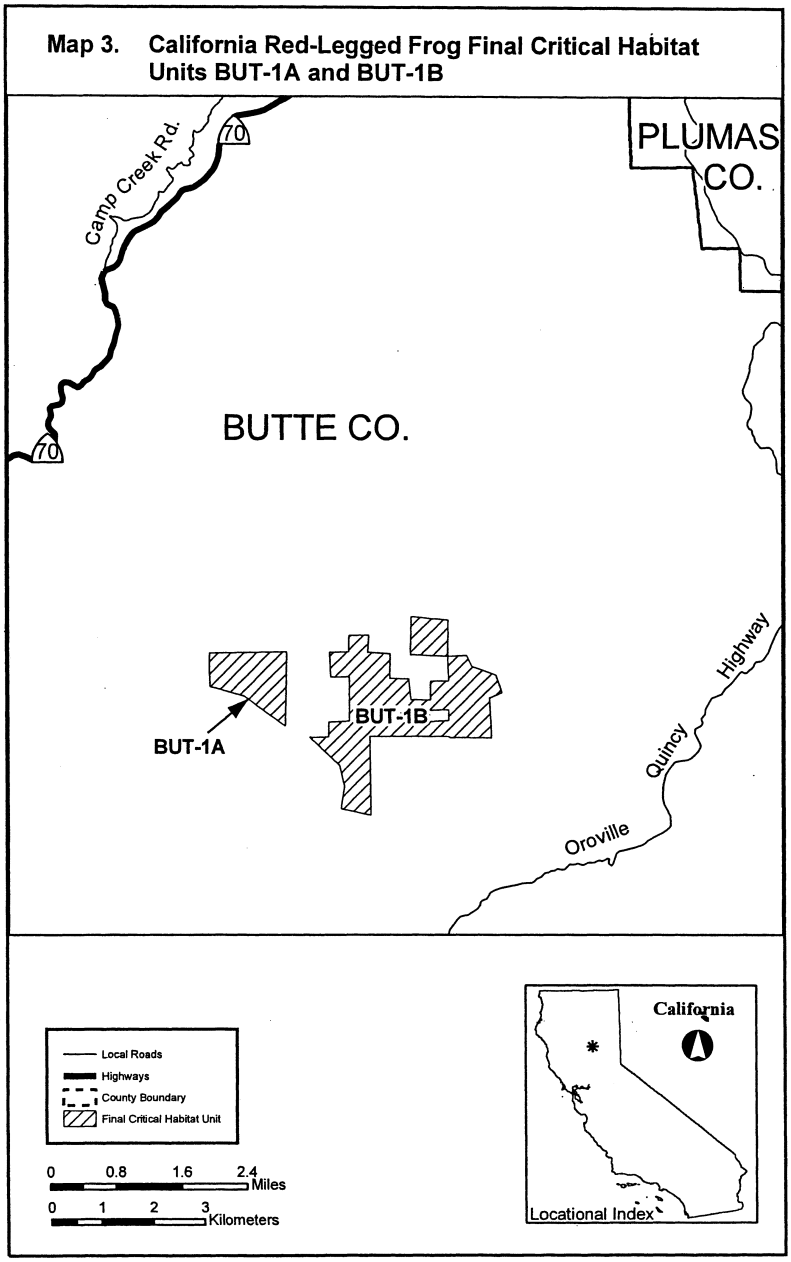


(6) Unit BUT–1: Butte County, California.

(i) Unit BUT–1A: Butte County, California. From USGS 1:24,000 scale quadrangle Berry Creek. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 636014, 4398157; 635988, 4397179; 635183, 4397763; 634514, 4397948; 634511, 4398157; 634504, 4398602; 636026, 4398626; returning to 636014, 4398157.

(ii) Unit BUT–1B: Butte County, California. From USGS 1:24,000 scale quadrangle Berry Creek and Brush Creek. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 639158, 4398542; 639158, 4398541; 639162, 4398541; 639356, 4398550; 639519, 4398557; 639628, 4398345; 640086, 4398179; 640211, 4397826; 640211, 4397826; 639961, 4397731; 640006, 4396948; 639187, 4396960; 639186, 4396974; 637634, 4396983; 637652, 4395435; 637065, 4395560; 637131, 4395999; 637040, 4396417; 636462, 4396956; 636835, 4396964; 636840, 4397249; 637236, 4397279; 637232, 4398141; 636881, 4398134; 636851, 4398620; 637230, 4398623; 637230, 4398948; 637614, 4398951; 637599, 4398614; 638035, 4398594; 638033, 4398108; 638391, 4398097; 638437, 4397694; 638816, 4397686; 638814, 4398059; 639169, 4398061; 639152, 4398538; 638426, 4398576; 638441, 4399315; 639162, 4399250; 639158, returning to 4398542; and excluding land bound by 638797, 4397490; 638801, 4397274; 639181, 4397286; 639178, 4397495; returning to 638797, 4397490.

(iii) NOTE: Unit BUT–1 (Map 3) follows:



(7) Unit YUB–1, Yuba County, California.

(i) From USGS 1:24,000 scale quadrangle Challenge. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N):656980, 4365996; 656963, 4366384; 656120, 4366359; 656148, 4365966; 656980, 4365996; 657043, 4364816; 657742, 4364812; 657772, 4364057; 657015, 4363927; 656165, 4364014; 656168, 4362832; 655836,

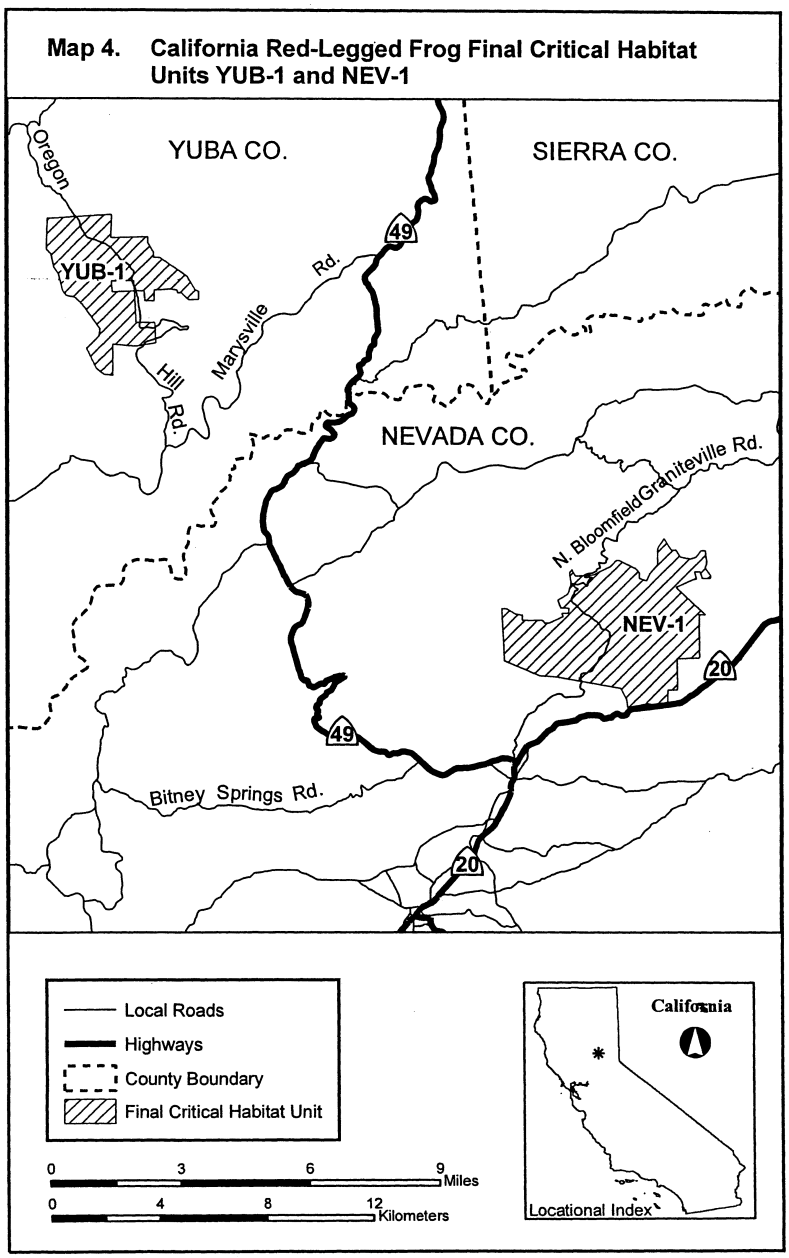
4362878; 655558, 4363109; 655202, 4363849; 655669, 4364315; 655690, 4364586; 655027, 4365526; 654779, 4365758; 654445, 4365837; 654319, 4366013; 654149, 4366639; 653990, 4366874; 653883, 4367381; 653710, 4367531; 653751, 4368687; 656133, 4368825; 656096, 4367969; 657473, 4368012; 657481, 4367769; 657690, 4367431; 657689, 4367226; 657934, 4367235; 658905, 4366554; 659222, 4366053; 659360, 4365977; 659370, 4365689; 658988, 4365675; 658726, 4365936; 658571, 4365925; 658565, 4366039; 658336, 4366076; 657704, 4366025; 657709, 4365629; 657364, 4365618; 657333, 4365997; returning to 656980, 4365996.

(ii) NOTE: Unit YUB–1 is depicted on Map 4—Unit YUB–1 and NEV–1; see paragraph (8)(ii):

(8) Unit NEV–1, Nevada County, California.

(i) From USGS 1:24,000 scale quadrangle Nevada City and North Bloomfield. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N):676693, 4356744; 676962, 4356305; 677130, 4356317; 677130, 4356317; 677306, 4356068; 677670, 4355985; 677882, 4356056; 678051, 4356296; 678231, 4356310; 678277, 4355825; 678217, 4355664; 678320, 4355521; 678448, 4355341; 678417, 4355258; 678120, 4355258; 678022, 4355505; 677872, 4355497; 677839, 4355496; 677890, 4355253; 677791, 4355212; 677142, 4354929; 678242, 4353900; 678000, 4353891; 678010, 4352268; 677172, 4352234; 677188, 4351077; 676817, 4351057; 676812, 4350531; 676440, 4350485; 676117, 4350571; 675325, 4350412; 675293, 4350711; 675063, 4351133; 672710, 4351546; 672074, 4351586; 670738, 4352158; 670705, 4352783; 670633, 4354099; 670847, 4354102; 671174, 4353907; 671425, 4353854; 671435, 4353852; 671437, 4353664; 672180, 4353672; 672195, 4353656; 672287, 4353562; 672450, 4353566; 672938, 4353818; 672900, 4353937; 672900, 4353937; 673158, 4353946; 673148, 4354137; 672855, 4354130; 672757, 4354434; 673117, 4354665; 673122, 4354681; 673144, 4354750; 673253, 4355088; 673222, 4355269; 673188, 4355465; 673229, 4355515; 673283, 4355581; 673316, 4355516; 673402, 4355344; 673475, 4355349; 674072, 4355387; 674698, 4355703; 674907, 4355945; 675027, 4355928; 675578, 4355648; 675622, 4355625; 675647, 4355612; 675763, 4355477; 675770, 4355334; 675773, 4355263; 675947, 4355197; 676036, 4355164; 676143, 4355418; 676445, 4355779; 676456, 4356381; returning to 676693, 4356744.

(ii) NOTE: Unit NEV–11 is depicted on Map 4—Unit YUB–1 and NEV–1; which follows:

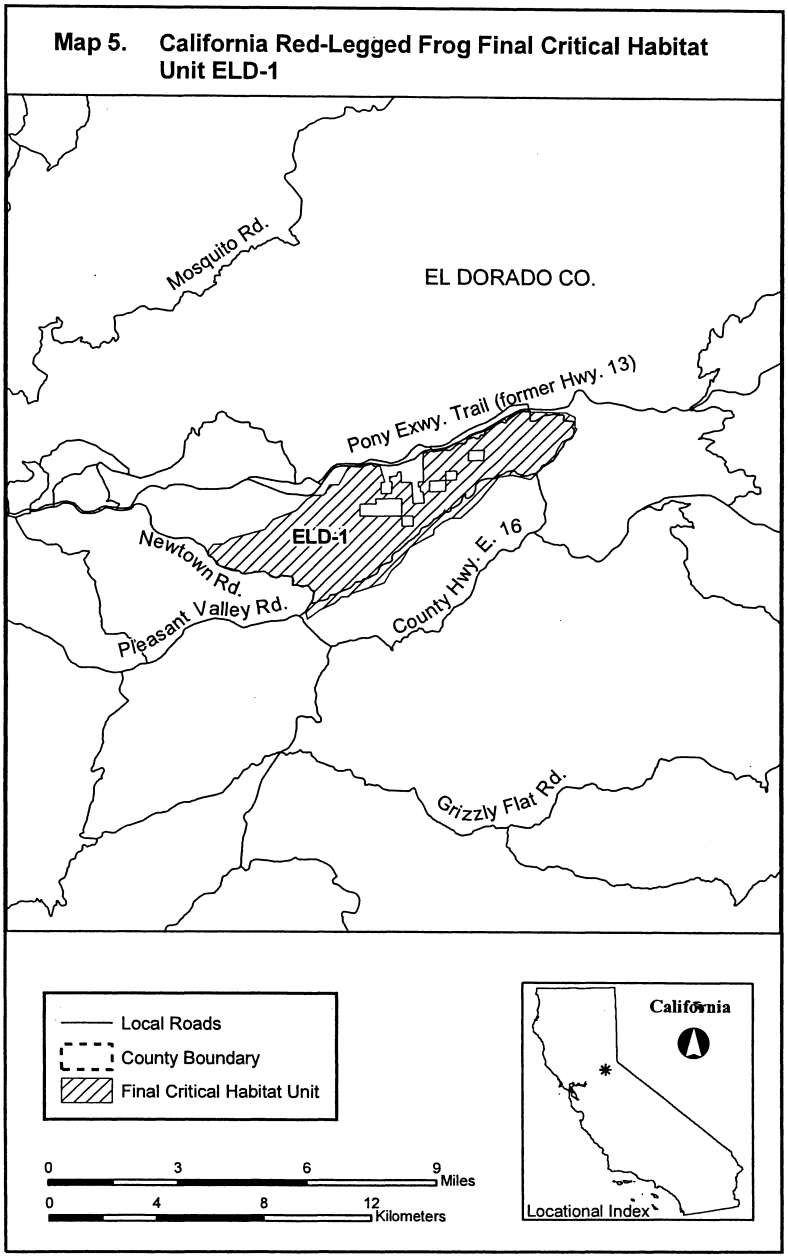


(9) Unit ELD–1: El Dorado County, California.

(i) From USGS 1:24,000 scale quadrangle Camino, Pollock Pines and Sly Park. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N):712379, 4292813; 712379, 4292406; 712447, 4292408; 712357, 4292219; 712201, 4292042; 711866, 4291905; 711680, 4291585;

711576, 4291195; 711182, 4290958; 710718, 4290490; 710054, 4290648; 709523, 4290568; 708873, 4289705; 708143, 4289015; 707771, 4289015; 707493, 4288896; 707161, 4288617; 707148, 4288404; 706245, 4287927; 705913, 4287369; 705568, 4287037; 705289, 4286586; 704068, 4286188; 703935, 4286055; 703696, 4286055; 703444, 4285816; 702900, 4285564; 702422, 4285219; 702369, 4285524; 702618, 4285934; 702683, 4286195; 702470, 4286461; 701885, 4286497; 701891, 4286789; 701757, 4286837; 701495, 4286860; 701263, 4286770; 700823, 4287009; 700042, 4286915; 699847, 4287036; 699171, 4287213; 698928, 4287502; 698765, 4287582; 698754, 4287797; 698937, 4288006; 699302, 4288030; 699587, 4288228; 700848, 4288565; 701165, 4288948; 702025, 4289287; 702406, 4289714; 702679, 4289855; 702774, 4289856; 702774, 4289849; 702848, 4289851; 703038, 4289857; 703074, 4289922; 703126, 4289926; 703129, 4290021; 703254, 4290250; 703584, 4290256; 703585, 4290257; 703590, 4290257; 703590, 4290266; 703950, 4290938; 704423, 4290921; 704803, 4291038; 704899, 4290959; 705129, 4290959; 705303, 4290355; 705172, 4290348; 705178, 4289926; 705574, 4289921; 705596, 4290371; 705522, 4290367; 705493, 4290545; 705761, 4290578; 705811, 4290733; 705924, 4290751; 705932, 4290340; 706320, 4290350; 706369, 4289576; 706803, 4289579; 706764, 4289998; 706666, 4289998; 706655, 4290187; 706578, 4290186; 706574, 4290369; 706777, 4290369; 706756, 4291450; 707659, 4291644; 708554, 4292134; 708989, 4292267; 709674, 4292706; 709766, 4292736; 709816, 4292639; 710327, 4293012; 712042, 4292979; returning to 712379, 4292813; and excluding land bound by 708426, 4291544; 708412, 4291176; 709003, 4291194; 709025, 4291561; returning to 708426, 4291544; and excluding land bound by 707590, 4290430; 707003, 4290400; 706995, 4290008; 707594, 4290027; 707590, 4290430; 707995, 4290448; 708014, 4290791; 707587, 4290776; returning to 707590, 4290430; and excluding land bound by 705960, 4289093; 705974, 4288722; 706388, 4288730; 706372, 4289105; 705960, 4289093; 705946, 4289741; 704959, 4289733; 704985, 4289548; 704386, 4289529; 704391, 4289082; returning to 705960, 4289093.

(ii) NOTE: Unit ELD–1 (Map 5) follows:

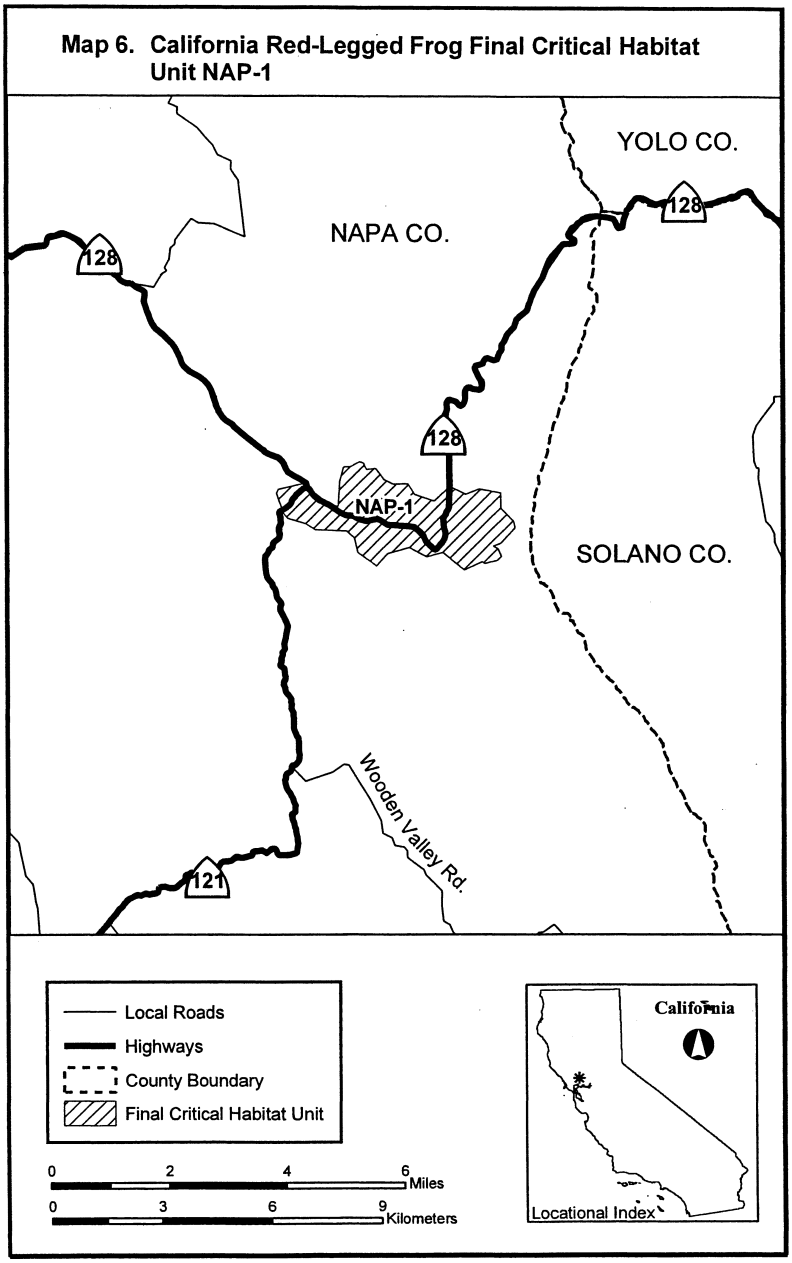


(10) Unit NAP–1: Napa County, California.

(i) From USGS 1:24,000 scale quadrangle Capell Valley. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N):571668, 4256238; 571744, 4256065; 572003, 4256097; 572230, 4255795; 572479, 4255665; 572879, 4255676; 573063, 4255384; 573603, 4255200; 573949, 4255535; 574100, 4255568; 574468, 4255395; 574835,

4255535; 575408, 4255427; 575408, 4255017; 575765, 4254649; 575808, 4254465; 575408, 4254033; 575214, 4253957; 575333, 4253892; 575419, 4253676; 575321, 4253562; 574972, 4253480; 574899, 4253535; 574411, 4253302; 573831, 4253776; 573386, 4253663; 572909, 4253921; 572328, 4253749; 572020, 4253414; 571495, 4253784; 571420, 4254184; 571204, 4254368; 570339, 4254400; 570079, 4254573; 569593, 4254725; 569474, 4254865; 569290, 4255416; 569344, 4255525; 570015, 4255676; 570207, 4255556; 570458, 4255211; 570966, 4255049; 571009, 4255752; 571117, 4256141; 571301, 4256141; 571560, 4256281; returning to 571668, 4256238.

(ii) NOTE: Unit NAP–1 (Map 6) follows:



(11) Unit MRN–1, Marin County, California.

(i) From USGS 1:24,000 scale quadrangle Inverness, Petaluma and Point Reyes NE. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 512634, 4232438; 512942, 4232244; 513362, 4232450; 513734, 4232386; 513953, 4232187; 513849, 4231832; 513876, 4231594; 513952, 4231792; 514067, 4231818; 514431, 4231744;

514514, 4231516; 514879, 4231915; 515164, 4231822; 515265, 4231703; 515682, 4231600; 515889, 4231847; 516087, 4231574; 516369, 4231437; 517058, 4231285; 517463, 4231696; 517667, 4231496; 517811, 4231094; 518083, 4230966; 518308, 4231014; 518538, 4230841; 518822, 4230448; 518810, 4230285; 519137, 4230506; 519320, 4230466; 519594, 4230608; 519999, 4230511; 520239, 4230269; 519882, 4229855; 519849, 4229396; 519476, 4228998; 519042, 4228213; 518370, 4227840; 517943, 4228049; 517694, 4228069; 517400, 4227982; 517186, 4227771; 517250, 4227548; 517183, 4226684; 517345, 4226172; 517664, 4225822; 517996, 4225774; 518119, 4225599; 518363, 4225531; 518498, 4225403; 518968, 4225411; 519190, 4225560; 519810, 4225258; 520064, 4225362; 520277, 4225592; 520630, 4225713; 520910, 4225546; 521150, 4225647; 521560, 4225362; 521576, 4225682; 521667, 4225821; 521971, 4225822; 522179, 4225963; 522417, 4225897; 522749, 4226030; 523034, 4226041; 523698, 4225705; 524366, 4225189; 524595, 4225339; 524810, 4225202; 525135, 4225139; 525269, 4225297; 525742, 4225446; 525981, 4225301; 526083, 4225122; 526307, 4225022; 526330, 4224726; 526452, 4224537; 525811, 4224326; 525534, 4224449; 525206, 4224371; 525087, 4224261; 524671, 4224229; 524230, 4223937; 523743, 4223997; 523498, 4223688; 523161, 4223685; 522965, 4223495; 522613, 4223424; 522258, 4223101; 522271, 4222843; 522555, 4222444; 522613, 4222102; 522055, 4221641; 521969, 4221349; 521990, 4221082; 521763, 4220864; 521855, 4220541; 521774, 4220127; 521924, 4219896; 521494, 4219662; 521368, 4219377; 520678, 4218787; 520378, 4218869; 519872, 4218838; 519845, 4218996; 519642, 4219152; 519519, 4219421; 519233, 4219697; 518902, 4219651; 518147, 4219746; 517653, 4219916; 517225, 4219917; 516987, 4220313; 517367, 4221065; 517036, 4221398; 516444, 4221115; 515956, 4221049; 515114, 4221102; 514867, 4220920; 514755, 4220678; 514594, 4220665; 514360, 4221329; 514397, 4221492; 513978, 4221885; 513976, 4222125; 513628, 4222855; 513416, 4222692; 513134, 4222645; 512740, 4222361; 512112, 4222334; 511866, 4222643; 511826, 4222861; 511527, 4223048; 511437, 4223216; 511547, 4223360; 511501, 4223757; 511629, 4224296; 511844, 4224569; 511904, 4225113; 512157, 4225513; 512337, 4225573; 512356, 4225792; 512529, 4226054; 512756, 4226159; 513037, 4226157; 513607, 4226528; 513769, 4226828; 514078, 4226893; 514392, 4227258; 514388, 4227874; 512822, 4228591; 512598, 4229082; 512261, 4229363; 512328, 4229507; 512245, 4229751; 512645, 4230037; 512816, 4230363; 512685, 4231053; 512208, 4231918; 512365, 4232457; 512525, 4232501; returning to 512634, 4232438.

(ii) NOTE: Unit MRN–1 is depicted on Map 7—Unit MRN–1 and MRN–2; see paragraph (12)(ii):

(12) Unit MRN–2, Marin County, California.

(i) From USGS 1:24,000 scale quadrangle Drakes Bay and Inverness. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 510133, 4216765; 510281, 4216124; 510849, 4215727; 510877, 4215571; 511057, 4215680; 511122, 4215630; 511518, 4214941; 511580, 4214681; 512054, 4214589; 512415, 4214708; 512679, 4214614; 512889, 4214540; 513012, 4214356; 513012, 4214356; 512976, 4214203; 513029, 4214231; 513021, 4213650; 513020, 4213570; 513018, 4213444; 513270, 4212875; 513483, 4212773; 513567, 4212632; 513638, 4212511; 513653, 4212486; 514053, 4212327; 514053, 4212327; 514172, 4212008; 514216, 4212003; 514243, 4212000; 514261, 4211733; 514446, 4211580; 514704, 4211012; 515314, 4210595; 515637, 4210194; 515507, 4210013; 515537, 4209798; 515379, 4209620; 515206, 4209561; 515138, 4209264; 515492, 4208446; 515871, 4208068; 516070, 4207700; 516021, 4207494; 515640, 4207206; 515590, 4206816; 515322, 4206667; 515113, 4206403; 515065, 4205839; 514924, 4205969; 514912, 4205983; 514847, 4206047; 514807, 4206091; 514807, 4206091; 514795, 4206108; 514766, 4206132; 514688, 4206208; 514619, 4206251; 514578, 4206289; 514276, 4206502; 514261, 4206517; 514212, 4206547; 514204, 4206556; 514164, 4206598; 514110, 4206623; 514098, 4206627; 513943, 4206736; 513922, 4206754; 513922, 4206760; 513907, 4206767; 513881, 4206789; 513803, 4206859; 513726, 4206889; 513726, 4206889; 513648, 4206944; 513645, 4206948; 513636, 4206953; 513082, 4207343; 513081, 4207347; 513080, 4207355; 513009, 4207394; 512782, 4207555; 512777, 4207559; 512747, 4207581; 512740, 4207585; 512595, 4207687; 512517, 4207721; 512462, 4207753; 512427, 4207773; 512239, 4207849; 512122, 4207903; 512106, 4207914; 511957, 4207983; 511835, 4208055; 511693, 4208105; 511658, 4208126; 511576, 4208150; 511438, 4208217; 511339, 4208243; 511298, 4208263; 511279, 4208268; 511111, 4208342; 510313, 4208639; 510305, 4208640; 510252, 4208659; 510049, 4208709; 509880, 4208738; 509877, 4208739; 509866, 4208740; 509787, 4208753; 509560, 4208803; 509246, 4208876; 509168, 4208889; 509159, 4208891; 509144, 4208894; 509141, 4208894; 509109, 4208900; 508815, 4208922; 508629, 4208949; 508612, 4208947; 508535, 4208957; 508381, 4208967; 507880, 4209000; 507679, 4209002; 507313, 4209005; 507122, 4208993; 507061, 4209007; 507008, 4209025; 506981, 4209029; 506928, 4209037; 506775, 4209072; 506522, 4209015; 506495, 4209017; 506487, 4209019; 506159, 4209247; 506147, 4209260; 506026, 4209510; 506065, 4209601; 506079, 4209594; 506083, 4209592; 506189, 4209495; 506192, 4209490; 506404, 4209297; 506476, 4209213; 506566, 4209137; 506592, 4209128; 506599, 4209122; 507025, 4209067; 507025, 4209070; 507029, 4209069; 507050, 4209081; 507034, 4209108; 507022, 4209113; 507021, 4209143; 507031, 4209142; 507076, 4209099; 507122, 4209102; 507162, 4209124; 507171, 4209124; 507259, 4209115; 507270, 4209117; 507283, 4209116; 507296, 4209122; 507302, 4209123; 507340, 4209138; 507346, 4209143; 507438, 4209184; 507483, 4209182; 507491, 4209180; 507616, 4209126; 507642, 4209138; 507646, 4209137; 507656, 4209127; 507659, 4209128; 507674, 4209113; 507699, 4209112; 507708, 4209118; 507788, 4209094; 507804, 4209107; 507856, 4209125; 507879, 4209126; 507898, 4209139; 507911, 4209157; 507905, 4209191; 507906, 4209195; 507937, 4209221; 507989, 4209219; 508011, 4209212; 508016, 4209208; 508021, 4209209; 508183, 4209159; 508204, 4209140; 508218, 4209125; 508225, 4209109; 508247, 4209094; 508283, 4209098; 508303, 4209088; 508333, 4209088; 508350, 4209081; 508383, 4209084; 508416, 4209079; 508418, 4209079; 508475, 4209068; 508475, 4209068; 508475, 4209068; 508475, 4209068; 508541, 4209085; 508580, 4209081; 508605, 4209086; 508633, 4209102; 508662, 4209135; 508694, 4209156; 508742, 4209175; 508751, 4209175; 509049, 4209111; 509066, 4209117; 509068, 4209117; 509069, 4209119; 509190, 4209162; 509287, 4209156; 509395, 4209114; 509405, 4209110; 509423, 4209097; 509499, 4209071; 509499, 4209071;

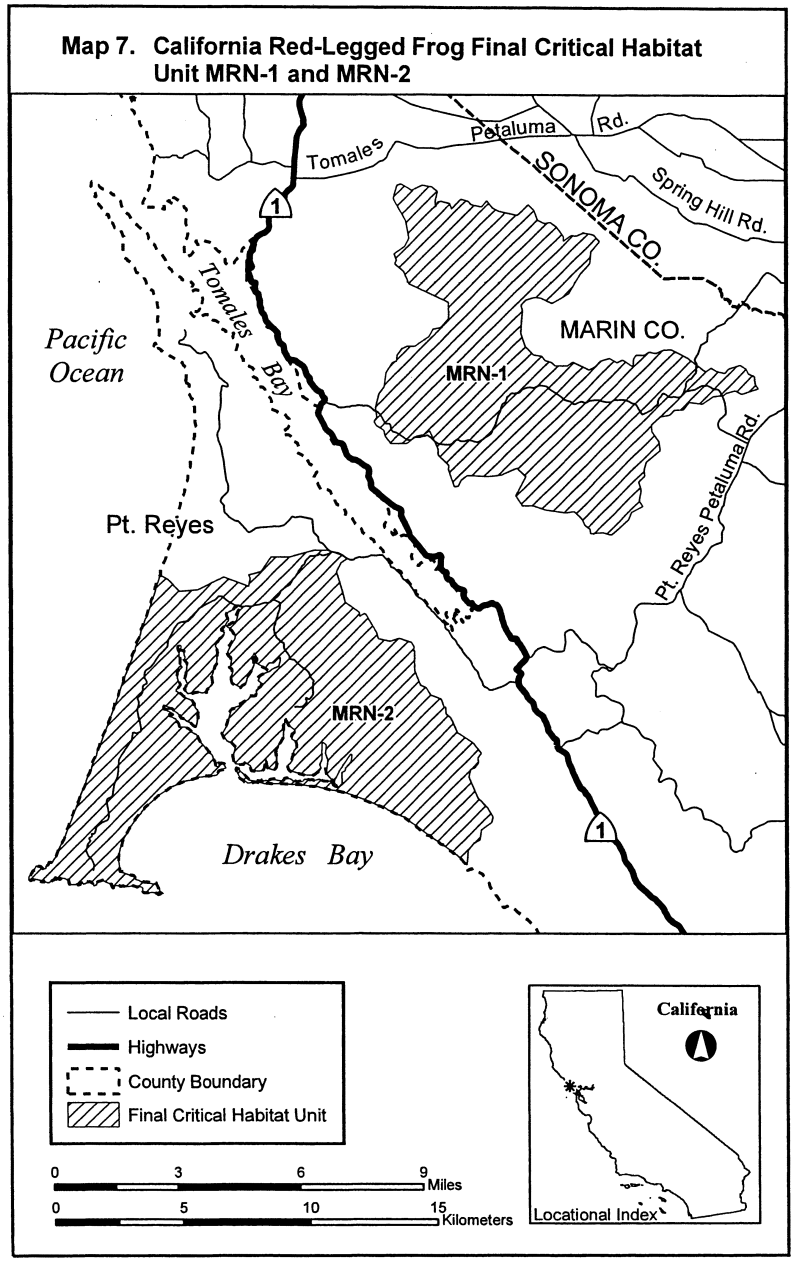
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500553, 4210120; 500561, 4210146; 500562, 4210154; 500570, 4210182; 500576, 4210224; 500635, 4210379; 500653, 4210421; 500665, 4210448; 500667, 4210464; 500894, 4211057; 500902, 4211075; 500903, 4211082; 501245, 4211976; 501245, 4211976; 501245, 4211976; 501413, 4212457; 501426, 4212483; 501435, 4212522; 501531, 4212795; 501542, 4212814; 501598, 4212910; 501626, 4213017; 501629, 4213078; 501700, 4213280; 501713, 4213301; 501731, 4213339; 501750, 4213373; 501752, 4213386; 501753, 4213388; 501764, 4213463; 501833, 4213660; 501882, 4213754; 501902, 4213806; 501940, 4213909; 501941, 4213914; 501943, 4213921; 501952, 4213973; 501952, 4214001; 501997, 4214131; 502021, 4214162; 502039, 4214201; 502042, 4214206; 502042, 4214208; 502053, 4214232; 502065, 4214292; 502065, 4214326; 502161, 4214600; 502213, 4214682; 502230, 4214728; 502242, 4214750; 502288, 4214887; 502289, 4214948; 502293, 4214978; 502328, 4215077; 502375, 4215177; 502392, 4215235; 502397, 4215274; 502467, 4215474; 502491, 4215520; 502579, 4215755; 502675, 4216062; 502677, 4216075; 502738, 4216251; 502751, 4216272; 502781, 4216349; 502807, 4216432; 502807, 4216447; 503058, 4217168; 503060, 4217170; 503345, 4217022; 503799, 4216555; 504526, 4216621; 505550, 4217104; 506541, 4216757; 506604, 4217067; 506532, 4217185; 506994, 4217323; 507410, 4217877; 508102, 4217877; 509072, 4218155; 509626, 4218155; 510135, 4217982; 510291, 4217860; 510312, 4217844; 510344, 4217819; 510140, 4217687; 509963, 4217330; returning to 510133, 4216765.

(ii) NOTE: Unit MRN–2 is depicted on Map 7—Unit MRN–1 and MRN–2; which follows:

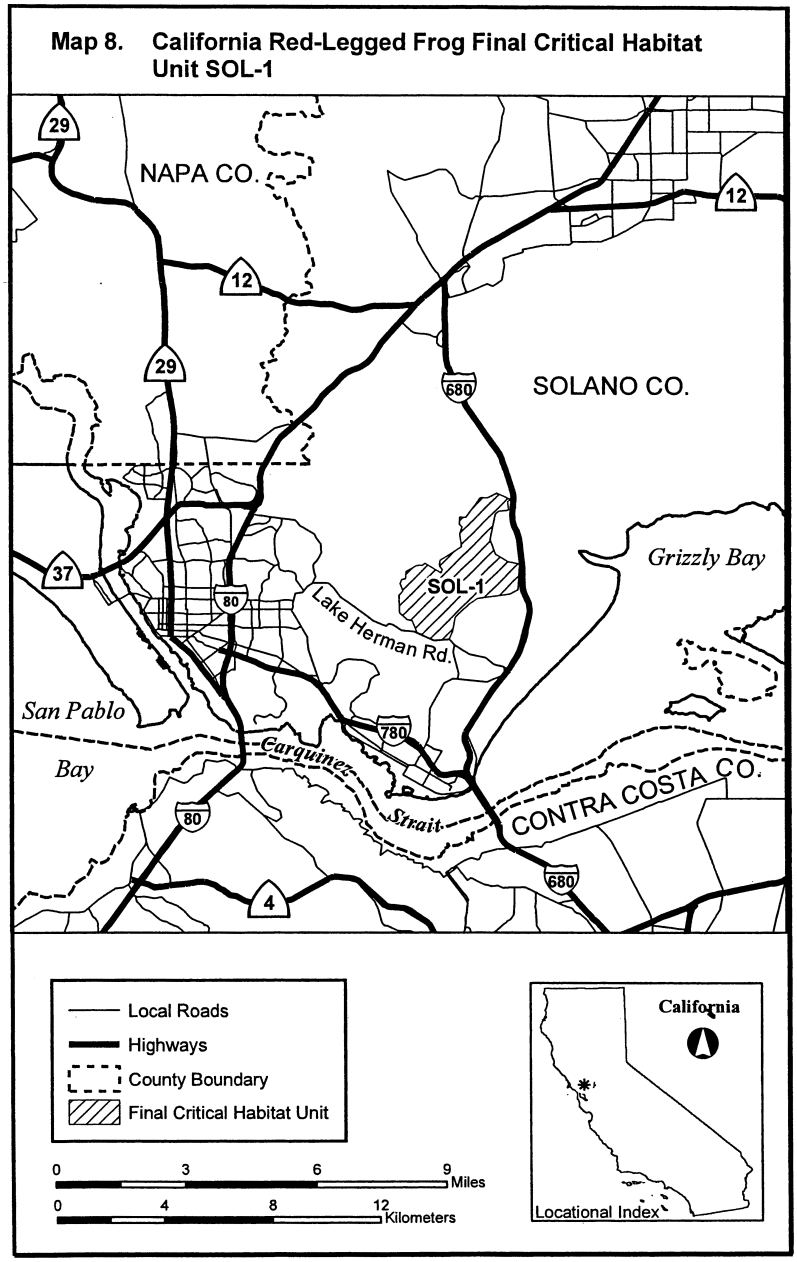


(13) Unit SOL–1: Solano County, California.

(i) From USGS 1:24,000 scale quadrangle Benecia, Cordella, Fairfield South and Vine hill. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N):577701, 4222110; 577941, 4222006; 577819, 4221920; 577847, 4221604; 577479, 4221571; 577347, 4221465; 577148, 4220519; 577340, 4219959; 577833, 4219667; 578242,

4219600; 578200, 4218615; 577917, 4218473; 576672, 4218298; 576363, 4218080; 575846, 4217579; 575754, 4217070; 575612, 4216753; 575044, 4216728; 574412, 4217019; 574245, 4217461; 574066, 4217508; 573773, 4217765; 573768, 4218399; 573898, 4218583; 573806, 4218855; 573858, 4218995; 573996, 4219035; 574013, 4219312; 574399, 4219535; 574626, 4219534; 574729, 4219611; 575326, 4219251; 575368, 4219375; 575260, 4219532; 575295, 4219728; 576090, 4220236; 576036, 4220726; 576129, 4220971; 576020, 4221093; 576034, 4221345; 576242, 4221326; 576789, 4222071; 577054, 4222051; 577390, 4222239; returning to 577701, 4222110;

(ii) NOTE: Unit SOL–1 (Map 8) follows:

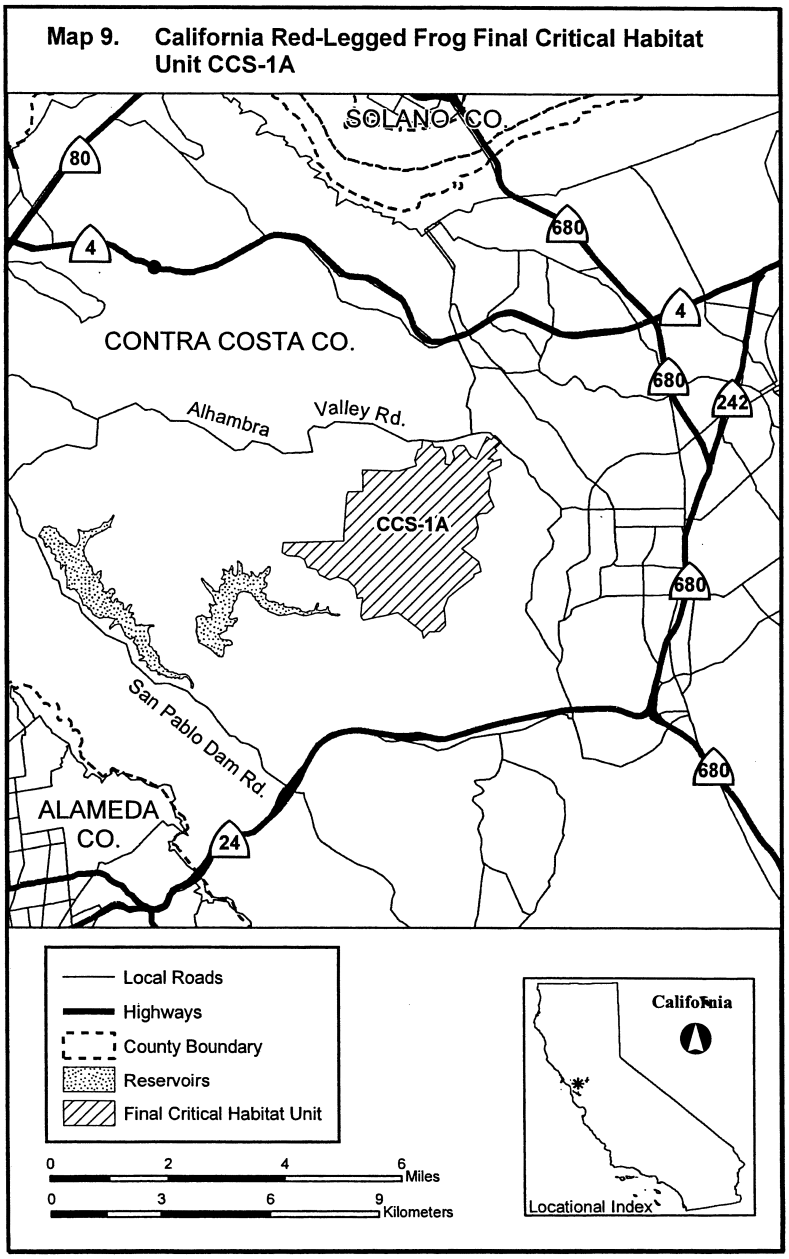


(14) Unit CCS–1: Contra Costa County, California.

(i) From USGS 1:24,000 scale quadrangle Briones Valley and Walnut Creek. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N):577415, 4202403; 577553, 4202269; 577370, 4202080; 577433, 4202019; 577181, 4201778; 577260, 4201778; 577331, 4201778;

577332, 4201711; 577529, 4201776; 577538, 4201779; 577538, 4201608; 577528, 4201603; 577180, 4201413; 577253, 4201191; 577204, 4200806; 577344, 4200493; 577350, 4200480; 577162, 4200287; 577000, 4200273; 576947, 4200268; 576858, 4200184; 576858, 4200181; 576929, 4199888; 576847, 4199627; 576755, 4199545; 576480, 4199299; 576758, 4199082; 576934, 4198944; 576998, 4198671; 576798, 4198592; 576812, 4198531; 576761, 4198489; 576106, 4197955; 575987, 4197664; 576041, 4197179; 575860, 4197013; 575587, 4196999; 575433, 4196825; 575386, 4197011; 574718, 4197534; 574372, 4197457; 574234, 4197426; 573757, 4197318; 573683, 4197437; 573707, 4197621; 573715, 4197685; 573747, 4197924; 573750, 4197950; 573599, 4197933; 573543, 4198199; 573353, 4198414; 573063, 4198504; 572836, 4198432; 572549, 4198584; 572485, 4198723; 572221, 4198785; 572141, 4198998; 572010, 4199081; 571670, 4199102; 571533, 4199186; 571566, 4199461; 573237, 4199507; 573236, 4199597; 573230, 4199612; 573309, 4200760; 573350, 4200872; 573764, 4200880; 573764, 4201156; 573763, 4201334; 573759, 4201334; 573748, 4201343; 573742, 4201477; 574752, 4201447; 575224, 4201592; 575241, 4201597; 575198, 4201759; 575276, 4202021; 575292, 4202031; 575335, 4202058; 575390, 4202092; 575413, 4202254; 575420, 4202307; 575672, 4202256; 575729, 4202104; 575955, 4202109; 576042, 4201903; 576028, 4201691; 576025, 4201654; 576171, 4201610; 576257, 4201780; 576262, 4201789; 576282, 4201829; 576264, 4201889; 576236, 4201982; 576236, 4201985; 576235, 4201988; 576289, 4202050; 576381, 4202154; 576537, 4202156; 576591, 4202063; 576682, 4201909; 576696, 4201885; 576745, 4201856; 576871, 4201782; 577165, 4202394; 577286, 4202312; 577377, 4202449; returning to 577415, 4202403.

(ii) NOTE: Unit CCS–1 (Map 9) follows:



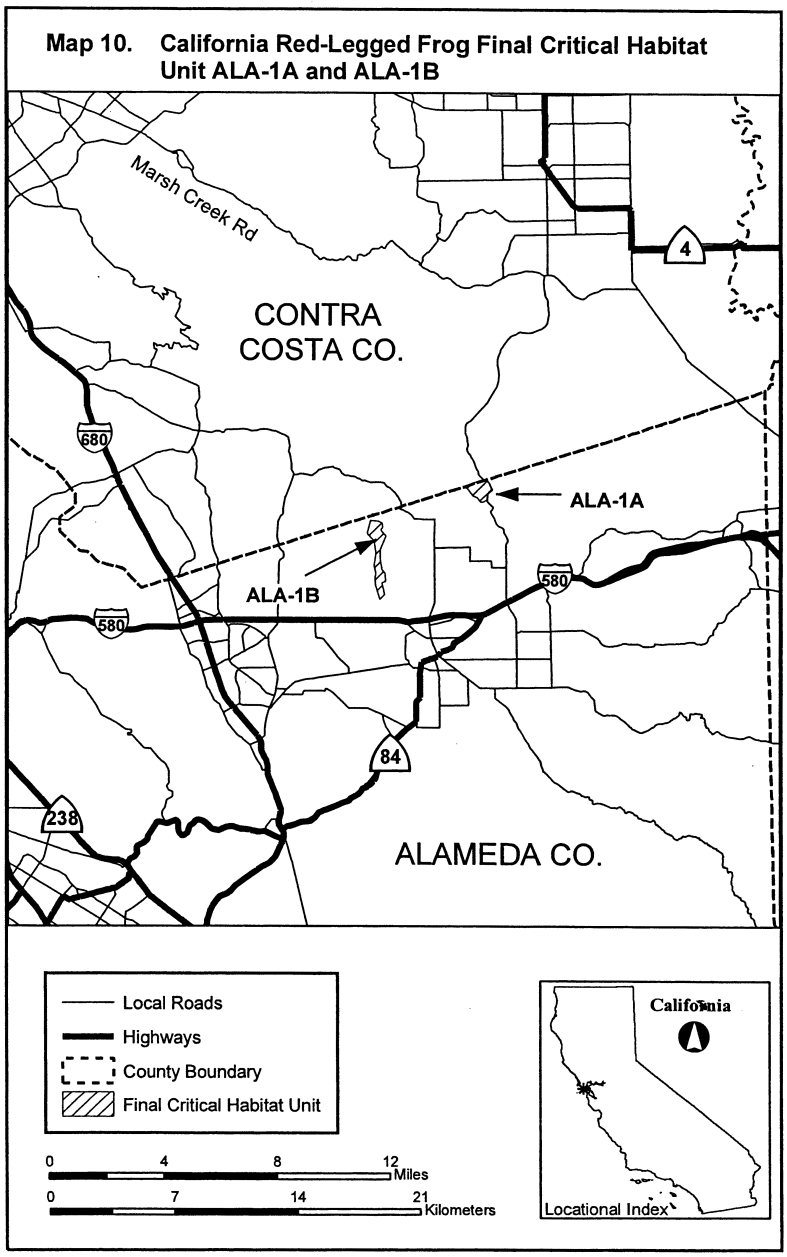
(15) Unit ALA–1: Alameda County, California.

(i) Unit ALA–1A: Alameda County, California. From USGS 1:24,000 scale quadrangle Byron Hot Springs. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N):611343, 4180152; 611148, 4180026; 610992, 4180035; 610813, 4180272; 610550, 4180400; 610267,

4180791; 610074, 4180901; 610005, 4180941; 611138, 4181316; 611241, 4181282; 611321, 4181255; 611418, 4181200; 611661, 4180732; 611386, 4180481; returning to 611343, 4180152.

(ii) Unit ALA–1B: Alameda County, California. From USGS 1:24,000 scale quadrangle Tassajara and Livermore. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 605516, 4174746; 605237, 4174452; 604995, 4175282; 604955, 4175708; 605011, 4175914; 604929, 4176374; 605014, 4177114; 604922, 4177797; 604522, 4178217; 604715, 4178963; 605183, 4178930; 605395, 4178792; 605397, 4178557; 605278, 4178437; 605371, 4178338; 605610, 4178091; 605266, 4177312; 605266, 4176726; 605364, 4176151; 605528, 4175946; 605569, 4175466; 605350, 4175393; returning to 605516, 4174746.

(iii) NOTE: Unit ALA–1 (Map 10) follows:

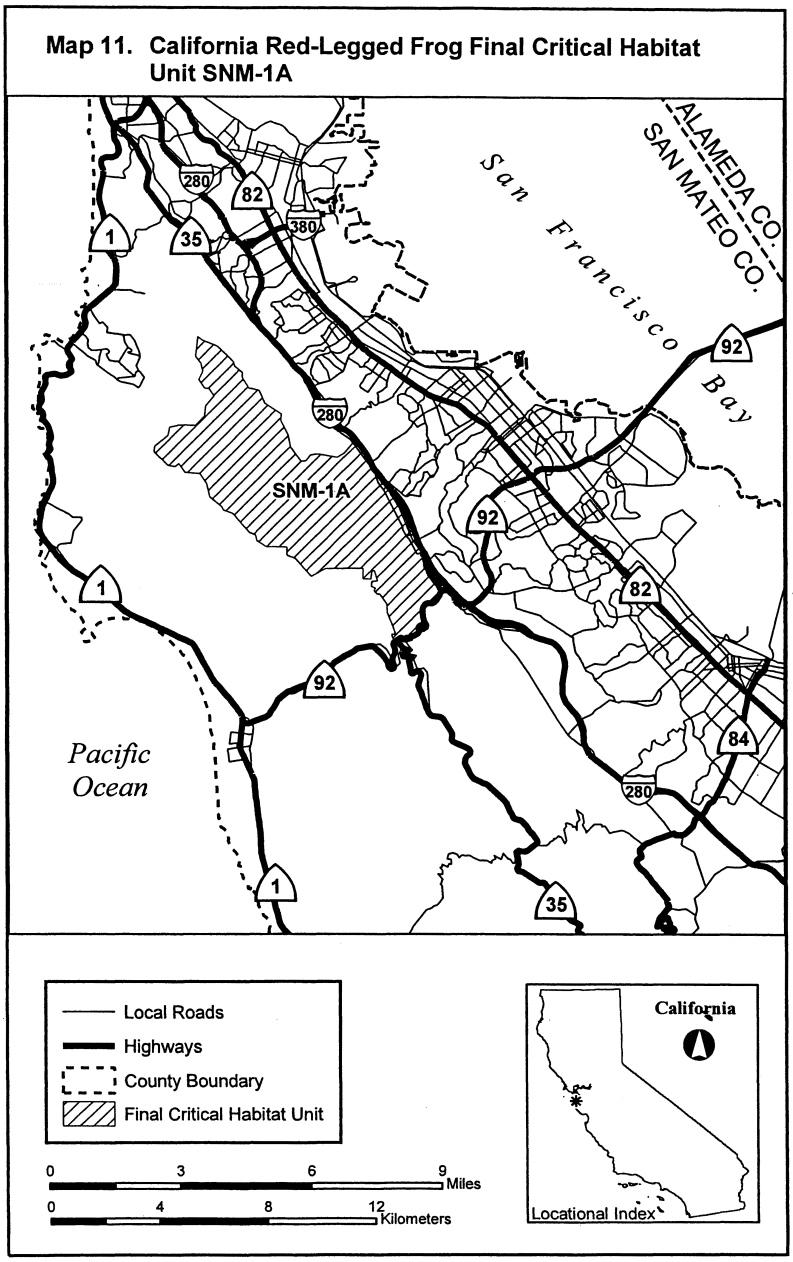


(16) Unit SNM–1: San Mateo County, California.

(i) From USGS 1:24,000 scale quadrangle Montara Mountain, San Mateo and Woodside. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N):551533, 4158189; 551784, 4157671; 551868, 4157218; 552272, 4156690; 552452, 4156693; 552617,

4156913; 552824, 4156958; 553599, 4156836; 553844, 4156973; 554208, 4157441; 554604, 4156948; 555975, 4154930; 556342, 4154266; 556618, 4153473; 557037, 4152693; 557619, 4151860; 557376, 4151775; 557087, 4151351; 556770, 4151283; 556693, 4150916; 556801, 4150517; 556747, 4150326; 556496, 4150243; 556451, 4150130; 556101, 4150168; 555956, 4150068; 555921, 4149873; 555759, 4149818; 555598, 4150134; 555585, 4150212; 555747, 4150212; 555426, 4151032; 555409, 4151357; 555135, 4151742; 555070, 4151722; 554936, 4151865; 554987, 4151957; 554843, 4152027; 554859, 4152219; 555062, 4152225; 554948, 4152608; 554865, 4152594; 554830, 4152290; 554541, 4152285; 554537, 4152688; 553155, 4152682; 552636, 4152392; 552037, 4153063; 551741, 4153172; 551730, 4153476; 550980, 4153502; 550622, 4153722; 550576, 4153934; 550351, 4154028; 549746, 4154736; 549381, 4154860; 549325, 4154994; 548878, 4155367; 548769, 4155840; 548526, 4156215; 547966, 4156268; 547737, 4156592; 547598, 4156478; 547334, 4156525; 546807, 4157023; 546841, 4157226; 547331, 4157630; 547400, 4157932; 547709, 4158010; 547720, 4158010; 547720, 4158013; 547763, 4158024; 548363, 4158007; 548694, 4158371; 548720, 4158743; 549043, 4159119; 548850, 4159394; 548699, 4159399; 548470, 4159723; 548619, 4160034; 548554, 4160344; 548424, 4160496; 548353, 4160580; 548433, 4161321; 548601, 4161211; 549116, 4160998; 549218, 4160956; 549754, 4160406; 549811, 4160220; 550088, 4160005; 550095, 4159783; 550342, 4159427; 550724, 4159325; 550929, 4158841; 551543, 4158433; returning to 551533, 4158189.

(ii) NOTE: Unit SNM–1 (Map 11) follows:



(17) Unit SNM–2, Santa Cruz County, California.

(i) From USGS 1:24,000 scale quadrangle Ano Nuevo and Franklin Point. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N):562883, 4108193; 562877, 4108189; 561117, 4111462; 560718, 4114535; 560736, 4114551; 560996, 4114768; 561669, 4114768; 562091, 4114947;

562386, 4114281; 562414, 4114216; 562761, 4113432; 562770, 4113416; 563257, 4112585; 563504, 4111460; 563520, 4111387; 563875, 4110389; 563695, 4110111; 563524, 4109846; 563566, 4109375; 563338, 4108933; 563338, 4108576; 563224, 4108504; 562883, 4108193; returning to 562883, 4108193.

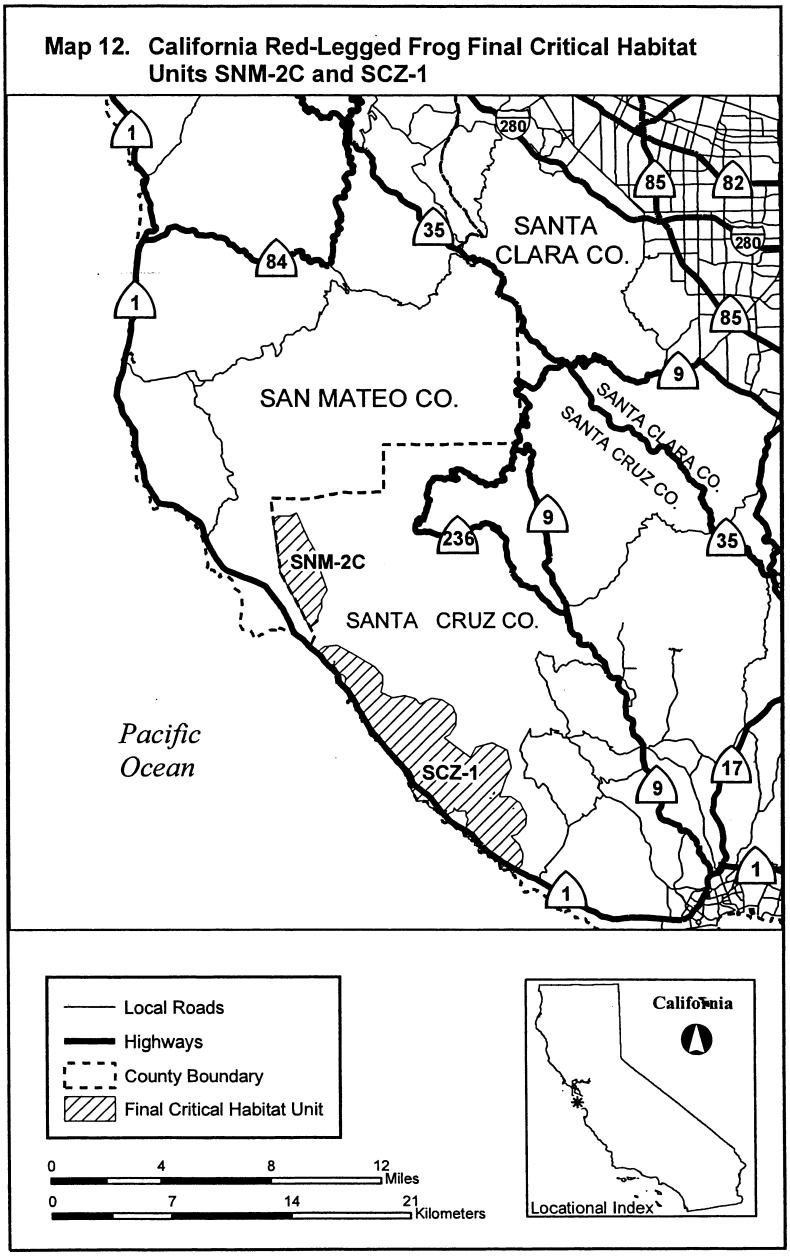
(ii) NOTE: Unit SNM–2 is depicted on Map 12—Unit SNM–2 and SCZ–1; see paragraph (18)(ii):

(18) Unit SCZ–1, Santa Cruz County, California.

(i) From USGS 1:24,000 scale quadrangle Ano Nuevo, Davenport and Santa Cruz. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N):564479, 4107160; 566634, 4105910; 567103, 4105347; 567118, 4104849; 567025, 4104348; 567712, 4104017; 568417, 4104162; 568799, 4104049; 569040, 4103968; 569287, 4103649; 570005, 4103995; 570626, 4103898; 571224, 4103498; 571428, 4102995; 571405, 4102392; 571014, 4101827; 570727, 4101666; 572239, 4100487; 572580, 4101093; 573541, 4101360; 574404, 4100932; 574656, 4099895; 574323, 4099265; 573943, 4098177; 574618, 4098204; 575136, 4097850; 575519, 4097115; 575464, 4096542; 574982, 4095962; 574626, 4095860; 575097, 4095407; 575329, 4094831; 575269, 4094227; 575005, 4093879; 574661, 4093673; 574649, 4093711; 574654, 4093718; 574647, 4093726; 574644, 4093728; 574634, 4093761; 574634, 4093761; 574634, 4093773; 574618, 4093770; 574606, 4093770; 574606, 4093770; 574606, 4093780; 574606, 4093788; 574598, 4093799; 574585, 4093828; 574581, 4093843; 574570, 4093861; 574569, 4093861; 574569, 4093861; 574548, 4093872; 574538, 4093876; 574511, 4093888; 574447, 4093911; 574447, 4093912; 574400, 4093921; 574400, 4093921; 574400, 4093921; 574388, 4093913; 574376, 4093903; 574361, 4093891; 574213, 4093862; 574186, 4093876; 574186, 4093876; 574186, 4093876; 574165, 4093867; 574148, 4093858; 574148, 4093859; 574148, 4093871; 574146, 4093882; 574145, 4093887; 574149, 4093904; 574143, 4093917; 574143, 4093918; 574143, 4093918; 574143, 4093918; 574136, 4093914; 574133, 4093912; 574088, 4093913; 574084, 4093917; 574081, 4093934; 574064, 4093936; 574064, 4093936; 574064, 4093936; 574064, 4093936; 574064, 4093936; 574016, 4093928; 574016, 4093928; 574015, 4093927; 574001, 4093913; 573987, 4093913; 573984, 4093916; 573962, 4093916; 573953, 4093926; 573956, 4093958; 573986, 4093990; 573996, 4094026; 573984, 4094063; 573984, 4094063; 573973, 4094074; 573965, 4094080; 573968, 4094122; 573982, 4094131; 573982, 4094131; 573983, 4094142; 573927, 4094255; 573927, 4094255; 573875, 4094343; 573874, 4094343; 573865, 4094349; 573859, 4094352; 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573322, 4094685; 573322, 4094685; 573312, 4094702; 573308, 4094696; 573256, 4094803; 573254, 4094835; 573254, 4094835; 573254, 4094846; 573252, 4094860; 573237, 4094865; 573237, 4094865; 573236, 4094865; 573222, 4094869; 573199, 4094872; 573199, 4094872; 573199, 4094872; 573174, 4094868; 573163, 4094862; 573135, 4094855; 573135, 4094855; 573135, 4094855; 573115, 4094862; 573085, 4094860; 573085, 4094860; 573085, 4094860; 573063, 4094842; 573063, 4094842; 573063, 4094842; 573058, 4094847; 573056, 4094849; 573049, 4094854; 573043, 4094859; 573043, 4094860; 573009, 4094872; 573008, 4094872; 572995, 4094885; 572971, 4094886; 572966, 4094887; 572934, 4094898; 572934, 4094898; 572934, 4094898; 572934, 4094898; 572903, 4094881; 572890, 4094886; 572868, 4094911; 572868, 4094911; 572872, 4094927; 572868, 4094940; 572868, 4094940; 572867, 4094940; 572867, 4094942; 572866, 4094942; 572852, 4094966; 572852, 4094966; 572852, 4094966; 572839, 4094965; 572833, 4094945; 572833, 4094945; 572798, 4094943; 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572412, 4095630; 572409, 4095626; 572367, 4095582; 572344, 4095586; 572257, 4095667; 572257, 4095667; 572257, 4095667; 572214, 4095651; 572160, 4095709; 572160, 4095709; 572160, 4095709; 572132, 4095701; 572132, 4095698; 572110, 4095690; 572101, 4095731; 572106, 4095747; 572086, 4095799; 572079, 4095831; 572073, 4095833; 572073, 4095835; 572050, 4095860; 571953, 4095880; 571935, 4095898; 571872, 4095899; 571869, 4095900; 571864, 4095959; 571868, 4096010; 572017, 4096086; 571990, 4096534; 572088, 4096879; 571997, 4097039; 571971, 4097358; 571479, 4097342; 571313, 4097557; 571286, 4097339; 570876, 4097134; 570768, 4097225; 570866, 4097358; 570755, 4097417; 570654, 4097326; 570439, 4097557; 570413, 4097433; 570508, 4097358; 570448, 4097118; 570448, 4097118; 570441, 4097140; 570430, 4097154; 570394, 4097231; 570313, 4097299; 570243, 4097400; 570199, 4097438; 570191, 4097450; 569854, 4097588; 569851, 4097590; 569810, 4097673; 569808, 4097683; 569801, 4097729; 569790, 4097763; 569790, 4097764; 569734, 4097852; 569707, 4097879; 569700, 4097892; 569693, 4097892; 569690, 4097895;

569660, 4097903; 569660, 4097903; 569660, 4097903; 569607, 4097898; 569529, 4097904; 569408, 4097944; 569334, 4097956; 569334, 4097956; 569334, 4097956; 569319, 4097953; 569293, 4097948; 569281, 4097935; 569280, 4097921; 569128, 4097932; 569123, 4097936; 569066, 4098078; 569064, 4098088; 569058, 4098098; 568951, 4098366; 568803, 4098527; 568790, 4098562; 568784, 4098672; 568740, 4098758; 568733, 4098789; 568700, 4098807; 568552, 4099214; 568548, 4099237; 568540, 4099245; 568514, 4099316; 568512, 4099351; 568494, 4099407; 568461, 4099461; 568411, 4099600; 568413, 4099607; 568413, 4099607; 568413, 4099629; 568395, 4099644; 568363, 4099730; 568185, 4099909; 568185, 4099917; 568102, 4100018; 568015, 4100096; 567955, 4100139; 567845, 4100249; 567817, 4100284; 567718, 4100446; 567639, 4100512; 567558, 4100615; 567554, 4100623; 567543, 4100635; 566920, 4101431; 566558, 4101664; 566549, 4101683; 566549, 4101683; 566544, 4101694; 566509, 4101721; 566509, 4101721; 566437, 4101741; 566379, 4101789; 566355, 4101800; 566391, 4101991; 566306, 4102128; 566302, 4102144; 566272, 4102202; 566239, 4102236; 566136, 4102401; 566118, 4102589; 566067, 4102633; 566055, 4102666; 565997, 4102692; 565991, 4102697; 565980, 4102686; 565933, 4102662; 565928, 4102634; 565918, 4102623; 565915, 4102704; 565938, 4102736; 565918, 4102813; 565918, 4102813; 565917, 4102819; 565894, 4102839; 565894, 4102840; 565894, 4102840; 565894, 4102840; 565871, 4102832; 565871, 4102809; 565889, 4102766; 565882, 4102722; 565801, 4102878; 565806, 4102897; 565835, 4102913; 565835, 4102913; 565834, 4102928; 565819, 4102948; 565819, 4102948; 565847, 4103002; 565838, 4103028; 565842, 4103042; 565738, 4103204; 565731, 4103202; 565731, 4103202; 565693, 4103201; 565693, 4103201; 565665, 4103183; 565661, 4103175; 565657, 4103172; 565637, 4103164; 565606, 4103244; 565555, 4103276; 565543, 4103296; 565578, 4103439; 565422, 4103696; 565390, 4103715; 565384, 4103722; 565218, 4103819; 565199, 4103831; 565193, 4103825; 565127, 4103809; 565110, 4103779; 565097, 4103733; 565087, 4103724; 565077, 4103722; 565155, 4103874; 565064, 4104181; 564991, 4104337; 564988, 4104370; 564920, 4104488; 564892, 4104548; 564706, 4104697; 564896, 4104779; 564952, 4105241; 564816, 4105396; 564664, 4105432; 564514, 4105388; 564385, 4105227; 564337, 4105546; 564258, 4105659; 564172, 4105782; 564241, 4105967; 564276, 4106061; 564330, 4106206; 564256, 4106176; 564277, 4106066; 564166, 4105981; 564125, 4105784; 564261, 4105601; 564288, 4105564; 564273, 4105405; 564272, 4105403; 564272, 4105402; 564272, 4105402; 564270, 4105402; 564198, 4105597; 563569, 4106326; 563523, 4106412; 563477, 4106460; 563477, 4106460; 563431, 4106492; 563420, 4106499; 563245, 4106701; 563500, 4106909; 563695, 4107069; 563721, 4107072; 564224, 4107131; returning to 564479, 4107160; and excluding land bound by 573580, 4098341; 573624, 4098338; 573660, 4098454; returning to 573580, 4098341; and excluding land bound by 573381, 4098107; 573397, 4098073; 573480, 4098118; returning to 573381, 4098107; and excluding land bound by 574744, 4097505; 574777, 4097483; 574803, 4097522; returning to 574744, 4097505.

(ii) NOTE: Unit SCZ–1 is depicted on Map 12—Unit SNM–2 and SCZ–1, which follows:



(19) Unit SCZ–2, Santa Cruz County, California.

(i) From USGS 1:24,000 scale quadrangle Watsonville West. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 607874, 4086411; 608701, 4084860; 608605, 4084937; 608520, 4084844; 608271, 4084560; 608221, 4084334; 607164, 4083847; 606471, 4082967; 606324,

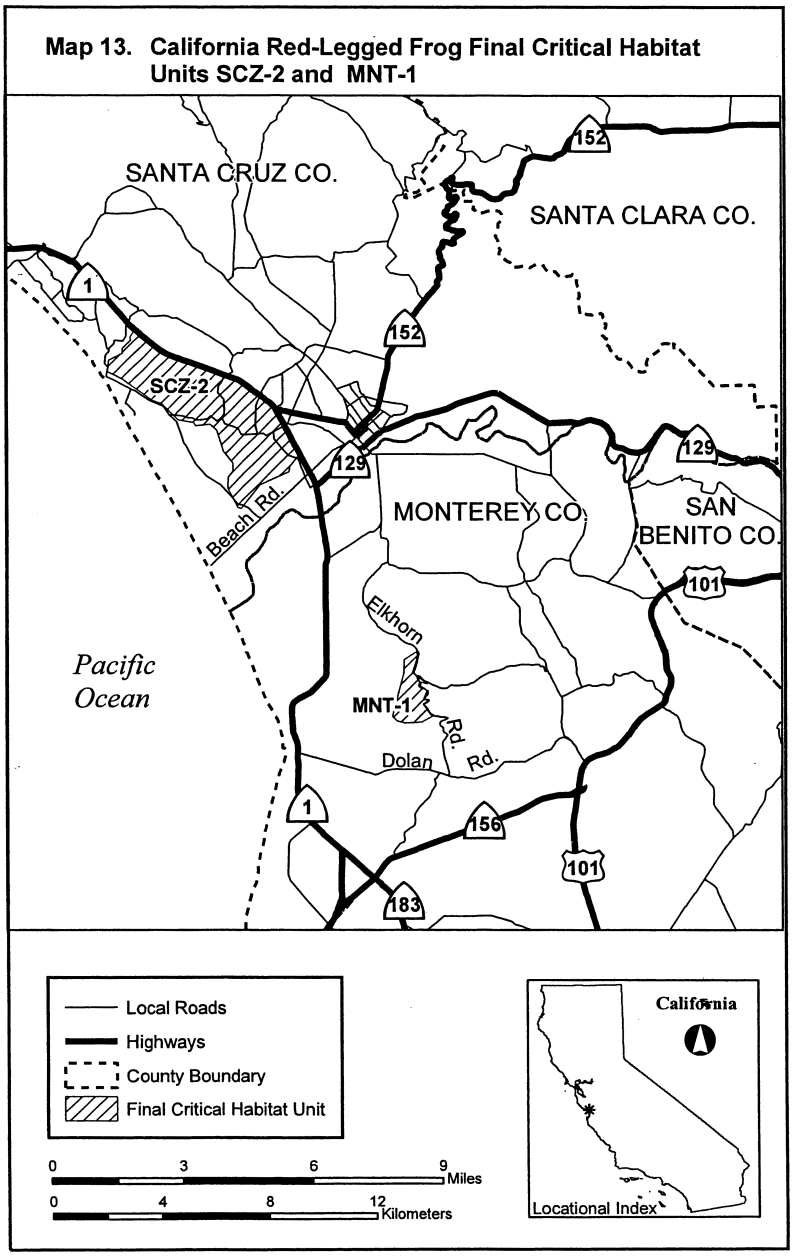
4083005; 605956, 4083724; 605973, 4084135; 606148, 4084358; 606145, 4084654; 605804, 4085090; 605562, 4085868; 605307, 4086095; 604763, 4086054; 604698, 4086167; 604132, 4086258; 603690, 4086684; 603615, 4086756; 603520, 4086848; 603133, 4087000; 602103, 4087771; 601519, 4088060; 601570, 4088484; 602074, 4088759; 602064, 4088910; 602395, 4089247; 602360, 4089344; 602512, 4089607; 603336, 4088906; 604761, 4088286; 606286, 4087760; 607611, 4086748; returning to 607874, 4086411.

(ii) NOTE: Unit SCZ–2 is depicted on Map 13—Unit SCZ–2 and MNT–1; see paragraph (20)(ii):

(20) Unit MNT–1, Monterey County, California.

(i) From USGS 1:24,000 scale quadrangle Prunedale. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 612824, 4076812; 613380, 4076378; 613142, 4076444; 613147, 4076371; 613064, 4076368; 613366, 4076130; 613249, 4075818; 613416, 4075763; 613219, 4075623; 613496, 4075230; 613600, 4075201; 613180, 4074959; 612571, 4074924; 612260, 4075009; 612080, 4075185; 612505, 4076777; 612513, 4077290; 612970, 4077581; 613035, 4077429; returning to 612824, 4076812.

(ii) NOTE: Unit MNT–1 is depicted on Map 13—Unit SCZ–2 and MNT–1, which follows:

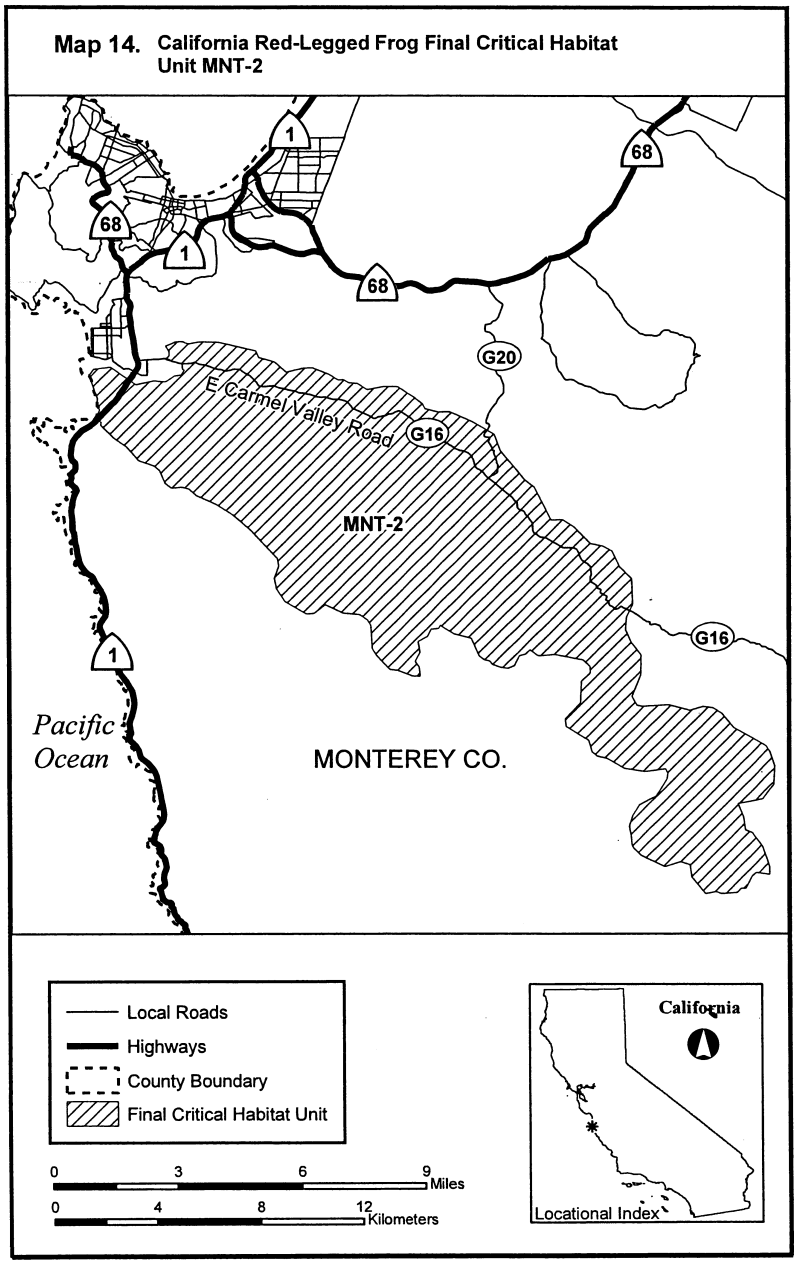


(21) Unit MNT–2: Monterey County, California.

(i) From USGS 1:24,000 scale quadrangle Carmel Valley, Monterey, Mt. Carmel, Seaside, Soberanes Point, Spreckles and Ventana Cones. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 599419, 4045578; 599642, 4045473; 600088,

4045563; 600834, 4045542; 602271, 4045215; 602387, 4044955; 602995, 4044764; 603443, 4044360; 604112, 4044534; 604453, 4044544; 605099, 4044296; 605466, 4044057; 605685, 4044068; 605887, 4043958; 606225, 4043919; 606596, 4043689; 607244, 4043808; 607797, 4043794; 608466, 4043373; 608793, 4043110; 608866, 4042937; 609413, 4042802; 609830, 4042815; 610740, 4042432; 611573, 4041944; 611814, 4041289; 612726, 4040175; 613137, 4039874; 613762, 4038586; 614228, 4038610; 614670, 4038326; 615292, 4037674; 615771, 4037572; 616123, 4037392; 616407, 4036778; 616880, 4036290; 616920, 4035275; 616678, 4034771; 616638, 4034268; 616839, 4033784; 617237, 4033276; 617217, 4032493; 616886, 4031650; 617061, 4031299; 617286, 4031246; 618297, 4031323; 619110, 4031095; 619626, 4031260; 620016, 4031198; 620351, 4030986; 620815, 4030435; 622090, 4029729; 622246, 4029496; 622413, 4028936; 622376, 4028207; 621962, 4027644; 620983, 4027465; 621194, 4026936; 621269, 4026418; 621514, 4026327; 621676, 4026123; 621725, 4026061; 621941, 4025789; 622122, 4025275; 622237, 4024946; 622230, 4024686; 621666, 4024752; 621500, 4024594; 621292, 4024148; 621076, 4024116; 620947, 4023973; 620321, 4023915; 620122, 4024004; 619689, 4023918; 619165, 4024583; 619106, 4025057; 618744, 4025179; 618124, 4024982; 617215, 4025429; 616920, 4025731; 616877, 4025775; 616865, 4025862; 616821, 4026177; 616765, 4026584; 616901, 4027004; 617157, 4027413; 617802, 4027746; 618213, 4028428; 618251, 4028652; 618171, 4028813; 617414, 4028715; 616590, 4028838; 616584, 4028841; 615937, 4029218; 615531, 4029325; 615477, 4029371; 615347, 4029482; 615199, 4029924; 614332, 4030476; 614306, 4030755; 614893, 4031381; 614938, 4032234; 615264, 4032552; 615263, 4032820; 614984, 4033076; 613899, 4033293; 613272, 4033235; 612943, 4033471; 612757, 4033306; 612519, 4033230; 612322, 4032837; 612081, 4032745; 611814, 4032778; 611483, 4032893; 611376, 4033035; 611161, 4033081; 610979, 4033234; 610671, 4033935; 609995, 4034101; 609467, 4034431; 609391, 4034316; 609094, 4034287; 608941, 4033993; 608584, 4033799; 608648, 4033376; 608456, 4033012; 608619, 4032790; 608670, 4032435; 608390, 4032418; 607772, 4032658; 607467, 4032689; 606920, 4033267; 606778, 4033515; 606720, 4034435; 606579, 4034653; 606274, 4034867; 605616, 4034921; 604950, 4035256; 604498, 4034915; 604201, 4034891; 603365, 4035385; 603037, 4035880; 602964, 4036294; 603128, 4036775; 603074, 4037070; 602039, 4038212; 601367, 4038793; 600744, 4039190; 599942, 4039551; 599666, 4039810; 599380, 4039875; 598979, 4039833; 598735, 4040019; 598525, 4040532; 598311, 4040704; 597701, 4040900; 597253, 4041444; 596744, 4041800; 596256, 4042297; 596287, 4042405; 596132, 4042505; 596122, 4042511; 596028, 4042421; 595930, 4042473; 595940, 4042476; 595977, 4042497; 595977, 4042497; 595985, 4042502; 596065, 4042584; 596066, 4042584; 596143, 4042699; 596193, 4042814; 596206, 4042818; 596213, 4042819; 596210, 4042853; 596216, 4042865; 596214, 4042869; 596225, 4042892; 596185, 4042950; 596175, 4043007; 596157, 4043037; 596119, 4043047; 596143, 4043164; 596136, 4043239; 596145, 4043305; 595921, 4043926; 595920, 4043937; 595918, 4043952; 595912, 4044008; 595910, 4044024; 595908, 4044039; 595907, 4044043; 595853, 4044154; 595824, 4044195; 595804, 4044252; 595824, 4044277; 595980, 4044472; 596641, 4044556; 597625, 4043868; 598316, 4044030; 598771, 4043986; 599109, 4044228; 599364, 4044256; 599492, 4044450; 599412, 4044472; 599400, 4044703; 598784, 4044876; 598904, 4045023; 598904, 4045172; 598777, 4045395; 599154, 4045565; returning to 599419, 4045578.

(ii) NOTE: Unit MNT–2 (Map 14) follows:

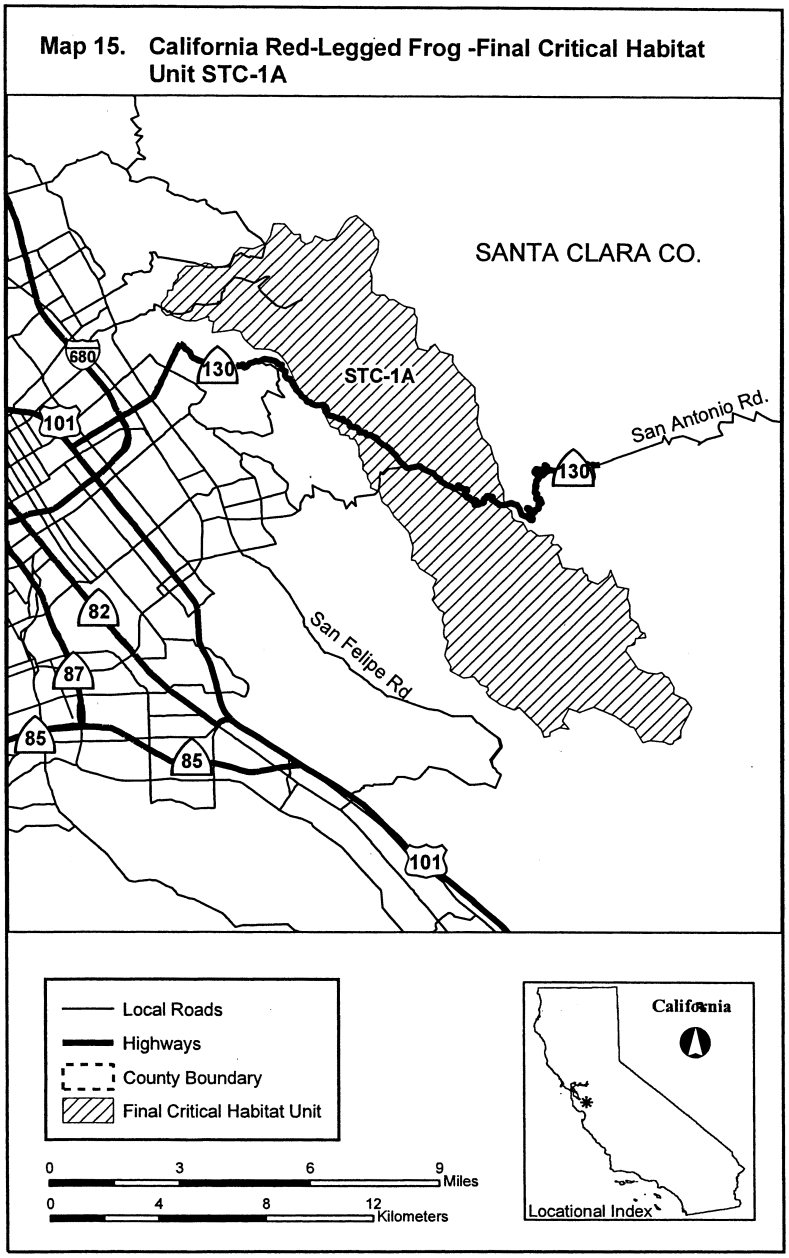


(22) Unit STC–1: Santa Clara County, California.

(i) Unit STC–1A: From USGS 1:24,000 scale quadrangle Calaveras, Isabel Valley, Lick Observatory, Mt. Day, Mt. Sizer and San Jose East. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 612237, 4141991; 612203, 4141589; 611893, 4140940;

611969, 4140675; 611962, 4140096; 612152, 4139946; 612459, 4139974; 612630, 4139772; 612795, 4139794; 613168, 4139551; 613570, 4139450; 613566, 4139244; 613666, 4139098; 613605, 4138264; 613708, 4137981; 614063, 4137873; 614140, 4138041; 614245, 4138095; 614254, 4138099; 614319, 4138132; 614482, 4137897; 614504, 4137865; 614981, 4137741; 614963, 4137477; 615187, 4137120; 615811, 4136523; 615810, 4136000; 615928, 4135865; 615873, 4135230; 616080, 4134655; 616360, 4134378; 616515, 4133842; 616638, 4133676; 616652, 4133124; 616852, 4132690; 616866, 4132313; 616973, 4132054; 617158, 4131944; 617178, 4131687; 617302, 4131573; 617591, 4131501; 617760, 4131146; 617872, 4131197; 618145, 4130995; 618693, 4131033; 618729, 4130940; 618624, 4130736; 618718, 4130655; 618878, 4130668; 619015, 4130511; 618867, 4130338; 618893, 4130253; 619031, 4129801; 619591, 4129713; 619800, 4129796; 619824, 4129621; 619976, 4129526; 619994, 4129332; 620342, 4129194; 620734, 4129474; 620830, 4129720; 621072, 4129096; 621462, 4129008; 621419, 4128672; 621515, 4128408; 621521, 4127932; 621824, 4127708; 621904, 4127423; 622072, 4127349; 622112, 4127201; 621723, 4127166; 621697, 4126941; 621435, 4126877; 621352, 4126717; 621817, 4126034; 622192, 4125876; 622527, 4125851; 622683, 4125916; 622816, 4125749; 622945, 4125721; 623173, 4125332; 623145, 4125105; 623593, 4124887; 623820, 4124576; 623432, 4123749; 623411, 4123461; 623160, 4123340; 623127, 4123235; 622990, 4123202; 622789, 4123298; 622251, 4123347; 621997, 4123271; 621663, 4123853; 621531, 4123870; 620991, 4124263; 620200, 4124592; 619688, 4124402; 619283, 4124541; 619042, 4124072; 619272, 4123773; 618944, 4123821; 618586, 4123638; 618594, 4123516; 618368, 4123456; 618252, 4123774; 617445, 4124567; 617250, 4124480; 616751, 4124670; 616302, 4124977; 616210, 4125133; 616289, 4125209; 616263, 4125318; 615978, 4125432; 615751, 4125708; 615362, 4125663; 614866, 4125945; 614911, 4126099; 614684, 4126506; 614809, 4127047; 614657, 4127186; 614631, 4127335; 614662, 4127620; 614585, 4127828; 614642, 4128130; 614464, 4128227; 614191, 4128589; 614313, 4128775; 614225, 4129047; 614367, 4129352; 614308, 4129391; 614236, 4129438; 613739, 4129766; 613576, 4130060; 613441, 4130080; 613506, 4130560; 613508, 4130573; 613344, 4131136; 612798, 4131727; 612621, 4132064; 612436, 4132202; 612358, 4132261; 612330, 4132365; 612259, 4132633; 612113, 4132698; 611912, 4132787; 611946, 4132924; 611824, 4133110; 611820, 4133148; 611802, 4133324; 611635, 4133479; 611647, 4133759; 611509, 4133949; 611493, 4134315; 611423, 4134445; 611342, 4134597; 611161, 4134610; 611121, 4134719; 610777, 4134766; 610731, 4134969; 610426, 4135080; 610042, 4135853; 609508, 4136147; 609270, 4136458; 608787, 4137441; 608491, 4137793; 608182, 4137930; 607593, 4137951; 607210, 4138322; 607091, 4138579; 606846, 4138652; 606040, 4138540; 606098, 4138947; 605923, 4138995; 605932, 4139155; 605426, 4138980; 605059, 4138971; 604471, 4139194; 604343, 4139170; 604159, 4139363; 604133, 4139623; 604367, 4139882; 604382, 4140096; 604574, 4140118; 604608, 4140376; 604783, 4140578; 604789, 4140721; 605055, 4141023; 605536, 4141023; 605764, 4141137; 605993, 4141092; 606145, 4140955; 606545, 4141045; 606686, 4141124; 606832, 4141464; 607076, 4141722; 607541, 4141680; 608014, 4141870; 608199, 4142141; 608300, 4142611; 608715, 4142602; 609083, 4142211; 609302, 4142219; 609329, 4141976; 609532, 4141860; 609743, 4141951; 609851, 4142170; 610315, 4141978; 610614, 4142075; 610999, 4142707; 611151, 4142845; 611408, 4142925; 612012, 4142381; 612059, 4142174; returning to 612237, 4141991;

(ii) NOTE: Unit STC–1A (Map 15) follows:



(iii) Unit STC–1B: From USGS 1:24,000 scale quadrangle Gilroy Hot Springs, Mississippi Creek, Mt. Sizer and Mustang Creek. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 640255, 4116331; 640334, 4116041; 640468, 4115985; 640873, 4116030; 640963, 4115792; 640948, 4115782; 640963, 4115758; 640888, 4115617; 640880, 4115611; 640838, 4115593;

640763, 4115570; 640708, 4115566; 640704, 4115552; 640691, 4115548; 640687, 4115423; 640742, 4115381; 640753, 4115369; 640787, 4115329; 640864, 4115290; 640864, 4115290; 640899, 4115264; 640991, 4115276; 641202, 4115056; 641208, 4114957; 641185, 4114861; 641176, 4114797; 641180, 4114723; 641197, 4114607; 641212, 4114587; 641230, 4114563; 641234, 4114559; 641237, 4114523; 641271, 4114030; 641270, 4114028; 641271, 4114026; 641272, 4114014; 641447, 4113651; 641786, 4113527; 641895, 4113090; 641917, 4113067; 641943, 4112993; 641992, 4112986; 642017, 4112959; 642221, 4113013; 642397, 4112815; 642598, 4112752; 642677, 4112913; 642699, 4112942; 642713, 4112980; 642726, 4113000; 642739, 4113013; 642756, 4113029; 642776, 4113030; 642824, 4113036; 642852, 4113043; 642877, 4113062; 642927, 4113086; 642966, 4113106; 642967, 4113107; 642971, 4113110; 643008, 4113133; 643030, 4113147; 643141, 4113191; 643762, 4112948; 644625, 4112180; 644755, 4111924; 644707, 4111793; 644868, 4111373; 644618, 4111095; 644303, 4111137; 644020, 4110840; 644093, 4110256; 643844, 4109750; 643838, 4109578; 643597, 4109387; 643309, 4109542; 643282, 4109149; 643268, 4108958; 643047, 4108898; 642726, 4108655; 642526, 4108288; 642405, 4108275; 642229, 4108418; 641866, 4108352; 641568, 4109095; 641544, 4109156; 641218, 4109330; 641131, 4109077; 641125, 4109057; 640693, 4108616; 640602, 4108030; 640381, 4107983; 640587, 4107620; 640919, 4107366; 640928, 4106886; 641039, 4106730; 640961, 4106402; 641107, 4106265; 641191, 4105822; 641360, 4105532; 641609, 4105444; 641740, 4105241; 641966, 4105105; 642566, 4104955; 642742, 4104186; 642907, 4103962; 642670, 4103545; 642834, 4103214; 642887, 4102821; 643785, 4102560; 643825, 4102358; 644111, 4102187; 644320, 4101481; 643798, 4101517; 643607, 4101399; 643458, 4101543; 642537, 4101612; 642343, 4101478; 642184, 4101196; 641700, 4101679; 641611, 4101688; 640727, 4101236; 640421, 4100955; 639538, 4100683; 639044, 4101048; 638772, 4101063; 638595, 4101575; 637798, 4102121; 637393, 4102637; 637080, 4102782; 636982, 4103052; 636500, 4103641; 636390, 4103954; 636189, 4104067; 636169, 4104413; 635958, 4104641; 634954, 4105208; 634610, 4106791; 634422, 4107257; 634104, 4107651; 634218, 4107977; 634332, 4108042; 634253, 4108384; 633835, 4108507; 633573, 4108820; 633465, 4108838; 633640, 4109358; 633411, 4109899; 633222, 4109873; 632855, 4109976; 632770, 4110090; 632413, 4110161; 632084, 4110384; 631923, 4110836; 631442, 4111239; 631408, 4111617; 631101, 4111955; 630676, 4112129; 630646, 4112268; 630266, 4112721; 630329, 4112914; 630725, 4113088; 630961, 4113401; 631280, 4113114; 631547, 4113040; 631870, 4113005; 632029, 4113074; 632229, 4112962; 632687, 4113061; 632784, 4113361; 632658, 4113499; 632786, 4113929; 632728, 4114292; 632799, 4114417; 632931, 4114650; 633144, 4114773; 633510, 4114766; 633754, 4114652; 634132, 4114806; 634263, 4114658; 634255, 4114449; 634576, 4114361; 634917, 4114667; 634940, 4114871; 634745, 4115132; 634807, 4115267; 635230, 4115138; 635818, 4115255; 636049, 4115136; 636255, 4115165; 636657, 4115026; 637037, 4115230; 637370, 4115130; 637574, 4115310; 637646, 4115732; 637753, 4115890; 637729, 4116086; 638838, 4116075; 639575, 4116443; 640064, 4116480; returning to 640255, 4116331;

(iv) NOTE: Unit STC–1B is depicted on Map 16—Unit STC–1B and MER–1; see paragraph (23)(iii):

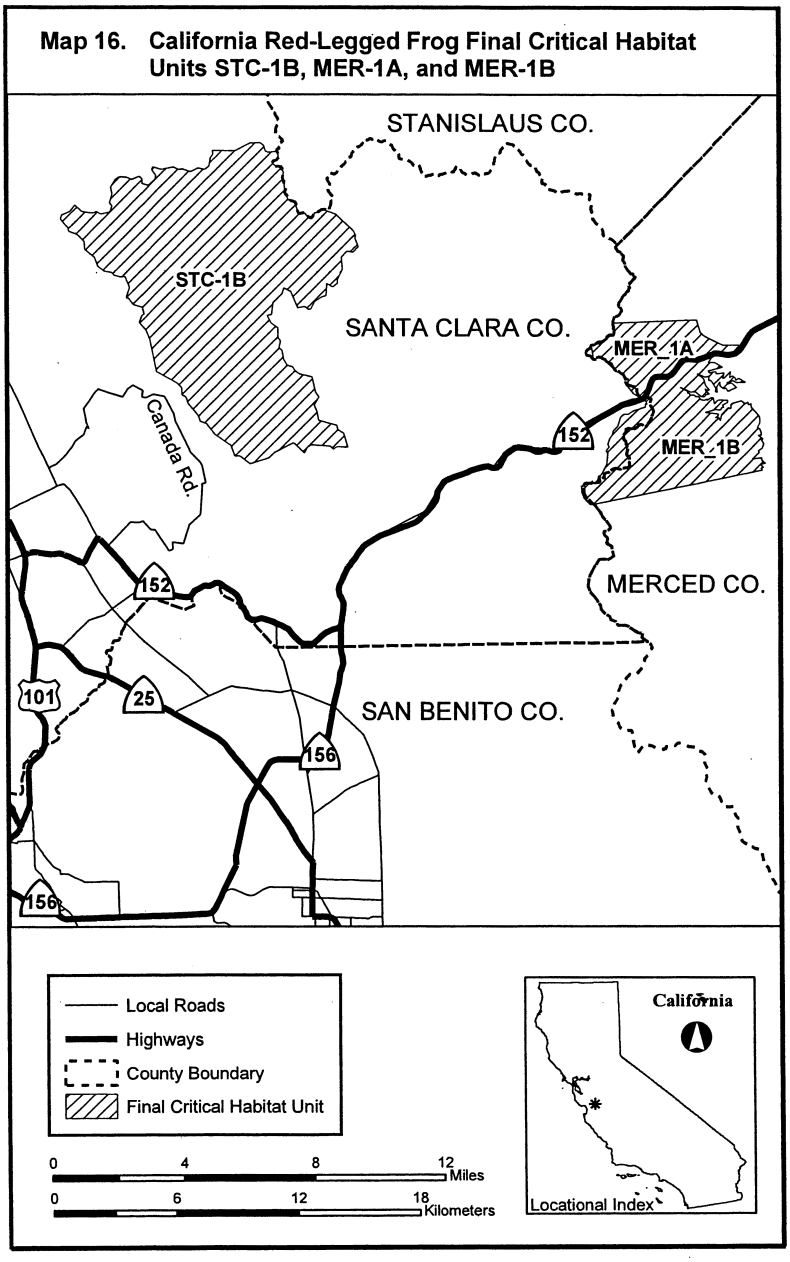
(23) Unit MER–1, Merced County, California.

(i) Unit MER–1A: Merced and Santa Clara counties, California. From USGS 1:24,000 scale quadrangle Pacheco Pass. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 663627, 4106508; 663570, 4106426; 663516, 4106355; 663436, 4106277; 663378, 4106239; 663328, 4106213; 663267, 4106189; 663227, 4106173; 663018, 4106143; 662423, 4106202; 662421, 4106202; 662416, 4106202; 662414, 4106202; 662346, 4106201; 662342, 4106200; 662337, 4106200; 662332, 4106199; 662253, 4106183; 662253, 4106183; 662248, 4106182; 662243, 4106181; 662242, 4106180; 662242, 4106180; 662118, 4106135; 662116, 4106135; 661836, 4106028; 661687, 4105970; 661685, 4105970; 661680, 4105968; 661677, 4105966; 661610, 4105928; 661528, 4105915; 661067, 4105920; 661066, 4105920; 661065, 4105920; 660974, 4105919; 660970, 4105918; 660966, 4105918; 660961, 4105917; 660959, 4105917; 660892, 4105901; 660813, 4105886; 660813, 4105886; 660808, 4105885; 660804, 4105883; 660799, 4105882; 660794, 4105880; 660793, 4105879; 660736, 4105849; 660734, 4105848; 660730, 4105846; 660640, 4105787; 660639, 4105787; 660635, 4105784; 660632, 4105780; 660629, 4105778; 660584, 4105734; 660583, 4105734; 660580, 4105730; 660577, 4105726; 660575, 4105724; 660232, 4105235; 660191, 4105182; 660138, 4105125; 660002, 4105074; 659947, 4105061; 659613, 4105055; 659610, 4105054; 659605, 4105054; 659605, 4105054; 659480, 4105037; 659475, 4105037; 659470, 4105035; 659465, 4105034; 659464, 4105034; 659339, 4104989; 659336, 4104987; 659332, 4104985; 659327, 4104983; 659323, 4104980; 659319, 4104977; 659315, 4104975; 659181, 4104858; 659181, 4104858; 659177, 4104855; 659174, 4104851; 659170, 4104847; 659168, 4104843; 659165, 4104839; 659163, 4104835; 659097, 4104706; 659097, 4104705; 659095, 4104701; 659093, 4104697; 658921, 4104214; 658850, 4104053; 658819, 4104012; 658780, 4103987; 658718, 4103984; 658717, 4103984; 658712, 4103984; 658707, 4103983; 658702, 4103982; 658697, 4103980; 658693, 4103978; 658688, 4103976; 658684, 4103974; 658680, 4103971; 658675, 4103969; 658672, 4103965; 658669, 4103963; 658668, 4103962; 658665, 4103958; 658661, 4103954; 658658, 4103950; 658656, 4103946; 658654, 4103943; 658336, 4104136; 658086, 4104436; 658011, 4104558; 658029, 4104560; 658098, 4104568; 658089, 4104860; 657953, 4104883; 657946, 4104894; 657821, 4105076; 657472, 4105243; 656855, 4105861; 656596, 4105904; 656565, 4105909; 656523, 4105837; 656491, 4105783; 656410, 4105781; 656402, 4105836; 656306, 4106493; 656436, 4106466; 656576, 4106581; 656814, 4106624; 656905, 4106742; 657051, 4106932; 657058, 4106934; 657340, 4106992; 657342, 4106998; 657397, 4107158; 657319, 4107627; 657355, 4107628; 661420, 4107769; 661596, 4107147; 661847, 4106966; 662730, 4106534; 663507, 4106525; 663573, 4106524; returning to 663627, 4106508.

(ii) Unit MER–1B: Merced and Santa Clara counties, California. From USGS 1:24,000 scale quadrangle Pacheco Pass. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 662307, 4106033; 662279, 4105978;

662270, 4105981; 662013, 4105663; 662342, 4105664; 662711, 4105446; 662009, 4105242; 662066, 4105166; 662389, 4105237; 662414, 4105130; 662796, 4105173; 662709, 4104890; 662790, 4104882; 663101, 4105220; 663074, 4104935; 663211, 4105025; 663367, 4104913; 663391, 4104802; 663558, 4104878; 663873, 4104702; 663441, 4104682; 663226, 4104792; 662938, 4104683; 662986, 4104610; 663124, 4104670; 663237, 4104619; 663418, 4104442; 662986, 4104259; 662873, 4104417; 662768, 4104372; 662606, 4104504; 662589, 4104714; 662436, 4104459; 662444, 4104221; 662366, 4104260; 662399, 4104372; 662156, 4104778; 662035, 4104796; 662040, 4105003; 661877, 4104950; 661429, 4105112; 661778, 4104857; 661865, 4104574; 662068, 4104321; 661980, 4104275; 661844, 4104383; 661873, 4104274; 662069, 4104123; 661884, 4104089; 661812, 4103968; 661678, 4103977; 661331, 4104251; 661154, 4104203; 660631, 4104454; 661016, 4104224; 660980, 4104159; 661085, 4104158; 661091, 4104071; 661287, 4104095; 661371, 4103973; 661518, 4104002; 661627, 4103844; 661792, 4103805; 661945, 4103871; 661967, 4103802; 662129, 4103938; 662259, 4103942; 662315, 4103643; 662496, 4103834; 662991, 4103814; 662950, 4103707; 662705, 4103575; 662766, 4103454; 662653, 4103456; 662613, 4103344; 662377, 4103354; 661862, 4103206; 662489, 4103154; 662519, 4103091; 662374, 4102970; 662520, 4102981; 662598, 4102816; 662660, 4103104; 662972, 4103441; 663143, 4103405; 663117, 4103569; 663196, 4103666; 663676, 4103790; 663833, 4103642; 663969, 4103734; 663996, 4103597; 664140, 4103636; 664151, 4103487; 664566, 4103031; 664581, 4102731; 664454, 4102481; 664601, 4102415; 664665, 4102120; 664499, 4102089; 664745, 4101925; 664659, 4101858; 664780, 4101690; 664698, 4101455; 664516, 4101335; 664550, 4101254; 664216, 4100934; 664672, 4100988; 664679, 4100858; 664848, 4100714; 664613, 4100658; 664753, 4100531; 664640, 4100466; 664690, 4100382; 664265, 4100296; 656384, 4098693; 656229, 4098662; 655918, 4098986; 655795, 4099251; 655791, 4099567; 655921, 4099641; 656002, 4099688; 656464, 4099730; 656477, 4099748; 656864, 4100316; 657021, 4100680; 657071, 4101195; 656999, 4101300; 657131, 4101522; 657082, 4101623; 657168, 4101900; 657327, 4102147; 657329, 4102278; 657574, 4102542; 657709, 4102978; 657871, 4103125; 658079, 4103104; 658325, 4103295; 658922, 4103499; 658904, 4103616; 659001, 4103617; 658995, 4103627; 658869, 4103858; 658913, 4103887; 658913, 4103887; 658918, 4103890; 658921, 4103893; 658925, 4103896; 658928, 4103900; 658932, 4103904; 658973, 4103957; 658976, 4103961; 658976, 4103962; 658979, 4103966; 658982, 4103970; 658984, 4103974; 658985, 4103977; 658999, 4104008; 659062, 4104149; 659062, 4104151; 659064, 4104154; 659235, 4104636; 659292, 4104747; 659404, 4104845; 659500, 4104879; 659508, 4104882; 659620, 4104897; 659957, 4104903; 659961, 4104903; 659966, 4104904; 659971, 4104905; 659973, 4104905; 660041, 4104921; 660044, 4104921; 660048, 4104923; 660051, 4104924; 660209, 4104983; 660211, 4104984; 660216, 4104986; 660220, 4104989; 660225, 4104991; 660229, 4104994; 660232, 4104997; 660236, 4105001; 660238, 4105003; 660292, 4105061; 660305, 4105075; 660306, 4105077; 660309, 4105081; 660354, 4105138; 660354, 4105138; 660356, 4105141; 660695, 4105625; 660730, 4105658; 660775, 4105687; 660810, 4105710; 660854, 4105733; 660922, 4105747; 660922, 4105747; 660924, 4105747; 660985, 4105761; 661067, 4105763; 661532, 4105757; 661533, 4105757; 661538, 4105757; 661543, 4105758; 661545, 4105758; 661647, 4105774; 661650, 4105775; 661655, 4105776; 661660, 4105777; 661665, 4105779; 661669, 4105781; 661673, 4105783; 661747, 4105825; 662170, 4105987; 662288, 4106030; returning to 662307, 4106033.

(iii) NOTE: Unit MER–1 is depicted on Map 16—Unit STC–1B and MER–1, which follows:



(24) Unit SNB–1, San Benito County, California.

(i) From USGS 1:24,000 scale quadrangle Hollister, Mt. Harlan, Tres Pinos and San Juan Bautista. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 636333, 4075764; 636809, 4075566; 637368, 4075520; 637770, 4075623; 638436, 4075288; 639151,

4074594; 639270, 4074217; 639547, 4073979; 640024, 4073740; 640877, 4073582; 641790, 4073621; 642345, 4072947; 642290, 4072223; 642286, 4072173; 642327, 4072128; 642484, 4071954; 642762, 4071855; 643099, 4071915; 643635, 4071756; 644786, 4072133; 645168, 4072165; 645297, 4072025; 645689, 4072165; 645934, 4072108; 645583, 4071554; 644771, 4071306; 644570, 4071098; 644078, 4070211; 643423, 4069300; 643207, 4069137; 642999, 4068980; 642764, 4068214; 642401, 4068048; 642285, 4067815; 641550, 4067654; 641481, 4067639; 640877, 4067786; 640417, 4067543; 640247, 4067603; 640033, 4067428; 639935, 4067174; 639778, 4067110; 639405, 4067226; 639029, 4066971; 638921, 4066756; 638947, 4066568; 638850, 4066215; 638012, 4066018; 637996, 4066098; 637982, 4066167; 637979, 4066180; 637573, 4066480; 637560, 4066490; 637527, 4066631; 637722, 4066757; 637723, 4066757; 637471, 4066841; 637471, 4066844; 637470, 4067231; 637470, 4067249; 637302, 4067389; 637261, 4067559; 637203, 4067554; 637006, 4067537; 636973, 4067534; 636959, 4067533; 636928, 4067607; 636870, 4067747; 636763, 4067690; 636753, 4067684; 636532, 4067718; 636425, 4067735; 636317, 4067811; 636317, 4067811; 636200, 4068132; 636197, 4068139; 636163, 4068138; 636073, 4068136; 635961, 4068564; 635983, 4068610; 636004, 4068655; 636092, 4068839; 636145, 4068950; 636128, 4069061; 635991, 4069270; 635918, 4069380; 635904, 4069401; 635741, 4069459; 635690, 4069477; 635637, 4069611; 635605, 4069693; 635531, 4069880; 635535, 4069893; 635762, 4070572; 635979, 4070786; 635638, 4070940; 635518, 4071208; 635534, 4071479; 635648, 4071712; 635705, 4073010; 636117, 4073620; 636042, 4073785; 635602, 4074066; 635336, 4074121; 633538, 4074975; 633270, 4075185; 633189, 4075401; 632764, 4075650; 632735, 4075795; 633860, 4075970; 634467, 4075645; 634857, 4075991; 635579, 4075824; returning to 636333, 4075764.

(ii) NOTE: Unit SNB–1 is depicted on Map 17—Unit SNB–1, SNB–2, and SNB–3; see paragraph (26)(ii):

(25) Unit SNB–2, San Benito County, California.

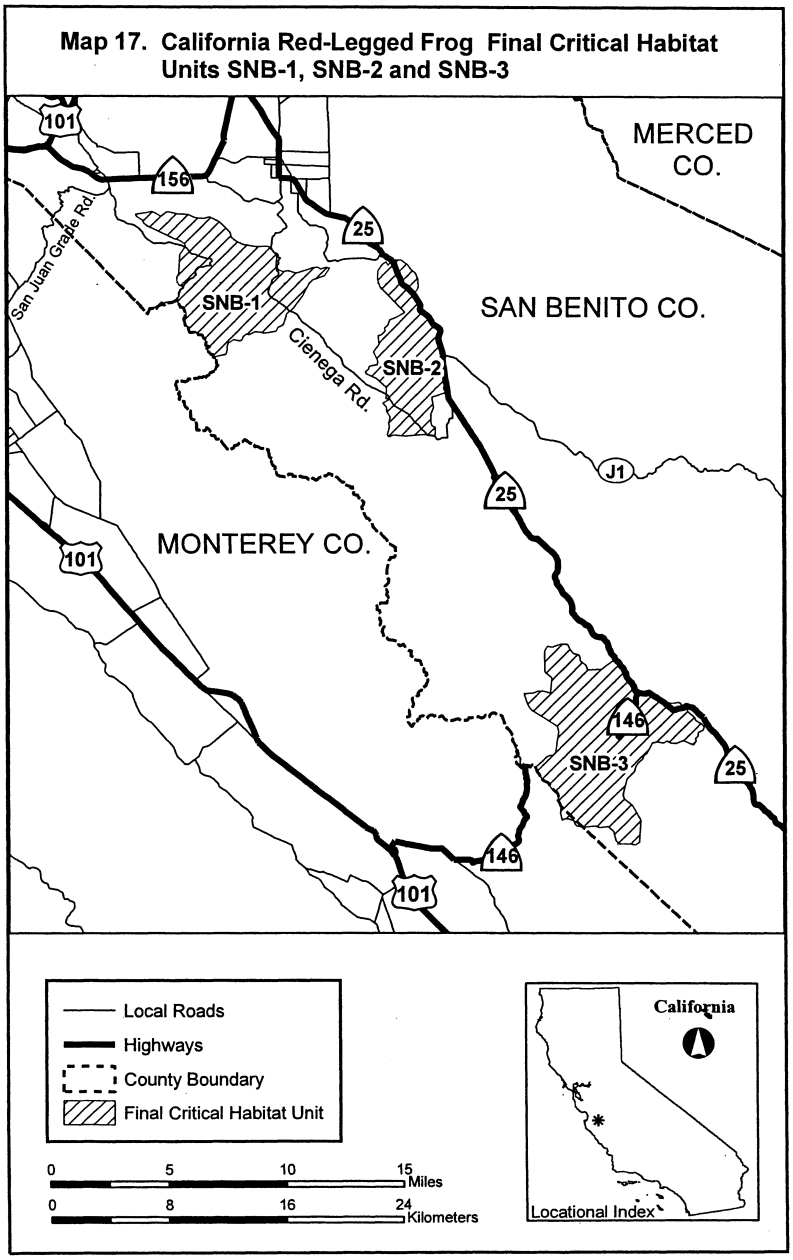
(i) From USGS 1:24,000 scale quadrangle Paicines and Tres Pinos. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 651305, 4072378; 651525, 4072011; 651845, 4071771; 652028, 4071278; 652022, 4070800; 651786, 4070356; 651865, 4070144; 651782, 4070129; 652109, 4069671; 652194, 4069177; 652713, 4068803; 653034, 4068282; 653559, 4067949; 653399, 4067163; 653668, 4066229; 653679, 4065476; 653994, 4063632; 652942, 4063283; 653061, 4062588; 652882, 4062132; 652882, 4061536; 652942, 4061338; 653180, 4061239; 653200, 4060683; 652505, 4060743; 651216, 4060624; 650263, 4060723; 649985, 4060584; 649871, 4060727; 650024, 4061281; 649952, 4061533; 650089, 4061931; 649831, 4062318; 649811, 4062612; 649587, 4062888; 649992, 4063123; 649750, 4063250; 649827, 4063402; 649827, 4063977; 649132, 4064573; 648418, 4064893; 648368, 4065024; 648595, 4065182; 648637, 4065377; 648952, 4065483; 649176, 4065456; 649211, 4065793; 648912, 4066371; 649309, 4066881; 649241, 4067470; 649486, 4067527; 649752, 4067816; 649699, 4067996; 649941, 4068182; 650059, 4068581; 650495, 4068725; 651109, 4069081; 649393, 4070835; 649209, 4071370; 649241, 4071918; 649574, 4072372; 649804, 4072538; 649950, 4072309; 650247, 4072695; 650886, 4072656; 651305, 4072378.

(ii) NOTE: Unit SNB–2 is depicted on Map 17—Unit SNB–1, SNB–2, and SNB–3; see paragraph (26)(ii):

(26) Unit SNB–3, San Benito County, California.

(i) From USGS 1:24,000 scale quadrangle Bickmore Canyon, North Chalone Peak, Topo Valley and San Benito. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 662185, 4046287; 662287, 4045981; 662560, 4045656; 662682, 4045636; 662867, 4045605; 663004, 4045486; 663021, 4045145; 663396, 4044906; 663532, 4044548; 664504, 4044599; 664848, 4044852; 665423, 4045274; 665730, 4044906; 666332, 4043701; 666667, 4043367; 666712, 4043144; 667158, 4042965; 667850, 4042965; 668162, 4042697; 668921, 4042296; 669278, 4042229; 669771, 4042313; 669964, 4042067; 670188, 4041997; 670325, 4041669; 670826, 4041221; 670822, 4041091; 671218, 4040873; 671427, 4040628; 671347, 4040394; 671047, 4040233; 671021, 4040013; 670823, 4039814; 670892, 4039645; 670684, 4039389; 670027, 4039673; 669533, 4039468; 669472, 4039474; 669158, 4039502; 668868, 4039656; 668663, 4039502; 668237, 4039588; 667896, 4039485; 667521, 4038752; 667317, 4038633; 667282, 4038411; 666942, 4038121; 666788, 4037900; 666746, 4037721; 666720, 4037610; 666297, 4037134; 666174, 4036996; 666152, 4036911; 665902, 4035939; 666004, 4035684; 666549, 4035206; 667129, 4034184; 667043, 4032692; 666753, 4032494; 666436, 4032574; 665616, 4032553; 665419, 4032791; 665323, 4033277; 665298, 4033401; 664899, 4033738; 664759, 4033726; 664319, 4033689; 664050, 4033809; 663280, 4033713; 663165, 4033734; 662763, 4033807; 662623, 4033932; 662588, 4034146; 662267, 4034294; 662008, 4034306; 661746, 4034200; 661635, 4034658; 661689, 4035154; 661690, 4035158; 661637, 4035258; 661489, 4035541; 661490, 4035552; 661492, 4035570; 661521, 4035846; 661526, 4035890; 661498, 4035935; 661410, 4036077; 661129, 4036266; 661106, 4036282; 661046, 4036370; 660789, 4036744; 660733, 4036783; 660641, 4036845; 660433, 4036988; 660395, 4037013; 660333, 4037119; 660281, 4037207; 660113, 4037493; 660033, 4037628; 659995, 4037693; 659949, 4037852; 659953, 4037855; 660089, 4037963; 660464, 4038258; 660685, 4038531; 660907, 4038650; 661145, 4038650; 661316, 4038837; 661555, 4040304; 661452, 4040644; 659679, 4041787; 659458, 4042145; 659187, 4042901; 659773, 4042943; 660108, 4043054; 660531, 4043054; 660978, 4042943; 661067, 4044014; 660601, 4044391; 660598, 4044393; 660576, 4045821; 660769, 4046171; 661080, 4046064; 661674, 4046284; 661687, 4046285; returning to 662185, 4046287.

(ii) NOTE: Unit SNB–3 is depicted on Map 17—Unit SNB–1, SNB–2, and SNB–3, which follows:



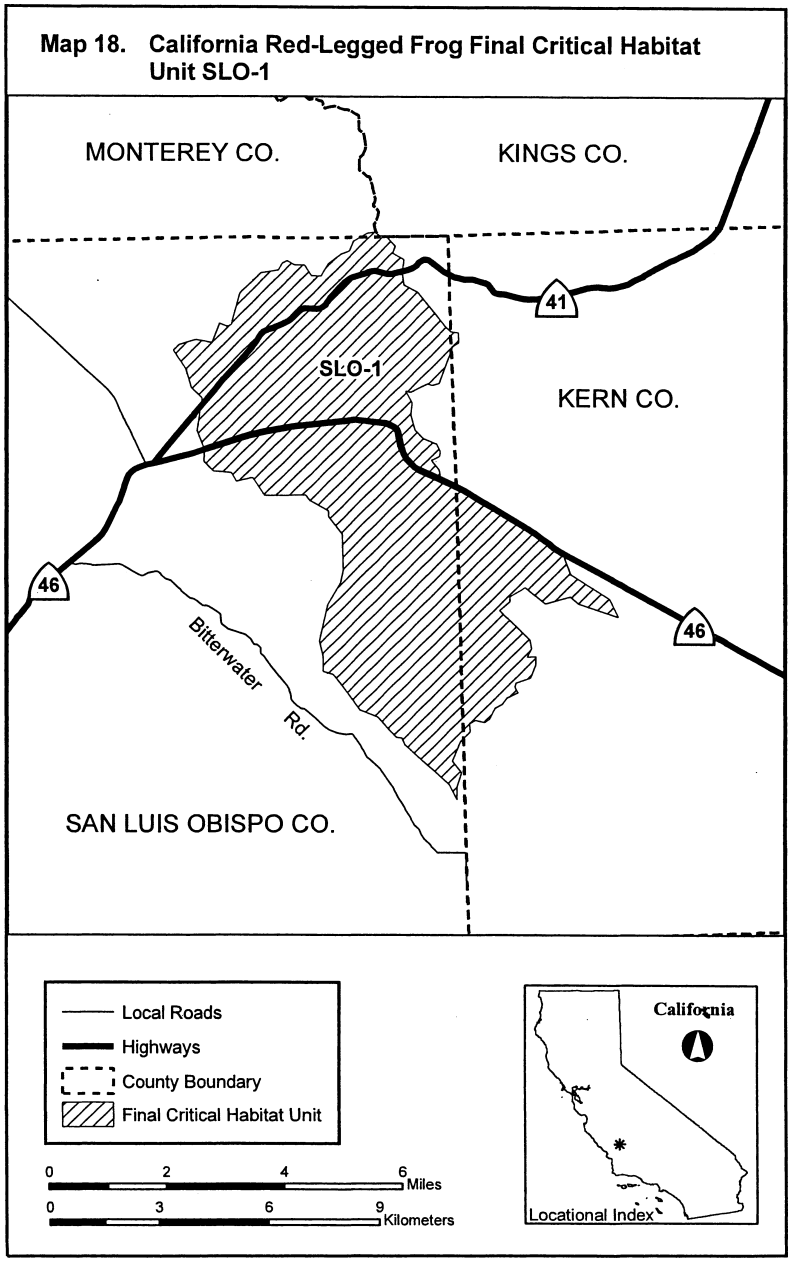
(27) Unit SLO–1, San Luis Obispo County, California.

(i) Unit SLO–1A, Monterey, Kern, and San Luis Obispo counties, California. From USGS 1:24,000 scale quadrangle Cholame, Cholame Valle, Orchard Peak and Tent Hills. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 751686, 3964133;

751712, 3964088; 751741, 3964089; 751944, 3964093; 752170, 3963839; 752089, 3963653; 752394, 3963470; 752337, 3963122; 752393, 3962782; 752775, 3962577; 753511, 3961661; 753674, 3961522; 753685, 3961512; 753876, 3961497; 753879, 3961211; 753726, 3961118; 753706, 3961064; 753688, 3961015; 753346, 3960103; 753157, 3960041; 753037, 3960096; 752584, 3959853; 752439, 3959886; 752616, 3959569; 752581, 3959240; 752698, 3958821; 752928, 3958591; 753277, 3958434; 753384, 3958236; 753360, 3958091; 753139, 3957977; 753347, 3957726; 753391, 3957540; 752811, 3957804; 752717, 3957865; 752515, 3958072; 752455, 3958187; 752455, 3958191; 752454, 3958196; 752453, 3958201; 752451, 3958205; 752451, 3958206; 752390, 3958384; 752310, 3958775; 752309, 3958779; 752307, 3958784; 752306, 3958789; 752305, 3958790; 752268, 3958874; 752266, 3958877; 752264, 3958882; 752261, 3958886; 752259, 3958890; 752255, 3958894; 752252, 3958898; 752248, 3958901; 752247, 3958902; 752164, 3958971; 752161, 3958973; 752157, 3958976; 752153, 3958978; 752153, 3958978; 752035, 3959046; 752031, 3959048; 752026, 3959050; 752022, 3959052; 752017, 3959054; 752015, 3959054; 751910, 3959080; 751907, 3959080; 751902, 3959081; 751901, 3959081; 751122, 3959173; 751118, 3959173; 751113, 3959173; 751111, 3959173; 750972, 3959169; 750969, 3959169; 750966, 3959169; 749326, 3958980; 749324, 3958980; 749319, 3958979; 749319, 3958979; 748582, 3958831; 748580, 3958831; 748212, 3958749; 748209, 3958748; 748205, 3958747; 746940, 3958338; 746939, 3958337; 746937, 3958337; 746756, 3958787; 746903, 3959687; 746602, 3959975; 746447, 3960491; 746115, 3960992; 746275, 3961146; 746729, 3961287; 747168, 3961212; 747374, 3961734; 747595, 3961650; 747697, 3961709; 747939, 3962560; 748518, 3963103; 748980, 3963178; 749087, 3963366; 749220, 3963434; 749423, 3963311; 749691, 3963318; 749862, 3963037; 750137, 3963026; 750339, 3963349; 750677, 3963620; 750913, 3963709; 751032, 3963973; 751204, 3964077; 751407, 3964200; 751633, 3964226; 751637, 3964218; returning to 751686, 3964133.

(ii) Unit SLO–1B, San Luis Obispo and Kern counties, California. From USGS 1:24,000 scale quadrangle Cholame and Orchard Peak. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 752244, 3958339; 752303, 3958167; 752303, 3958164; 752304, 3958162; 752304, 3958157; 752305, 3958152; 752306, 3958147; 752307, 3958142; 752309, 3958137; 752311, 3958133; 752312, 3958131; 752386, 3957991; 752387, 3957988; 752390, 3957984; 752393, 3957980; 752396, 3957976; 752398, 3957973; 752613, 3957752; 752614, 3957751; 752618, 3957748; 752622, 3957745; 752626, 3957742; 752627, 3957741; 752733, 3957673; 752736, 3957671; 752741, 3957669; 752743, 3957668; 753679, 3957241; 753770, 3957189; 753770, 3957189; 753774, 3957187; 753776, 3957186; 753824, 3957164; 753949, 3957107; 755936, 3955917; 756110, 3955797; 756322, 3955634; 756322, 3955634; 756324, 3955632; 756326, 3955628; 756329, 3955624; 756332, 3955620; 756335, 3955616; 756338, 3955612; 756342, 3955609; 756346, 3955606; 756350, 3955603; 756350, 3955603; 756406, 3955566; 756407, 3955564; 756409, 3955560; 756412, 3955555; 756415, 3955551; 756418, 3955547; 756421, 3955544; 756425, 3955540; 756429, 3955537; 756433, 3955534; 756434, 3955534; 756658, 3955389; 756661, 3955387; 756666, 3955385; 756670, 3955383; 756675, 3955381; 756680, 3955379; 756685, 3955378; 756690, 3955378; 756695, 3955377; 756700, 3955377; 756704, 3955377; 756709, 3955378; 756714, 3955378; 756719, 3955379; 756724, 3955381; 756729, 3955383; 756733, 3955385; 756737, 3955387; 756937, 3954849; 757985, 3954183; 758226, 3953688; 757146, 3954055; 756930, 3954253; 756254, 3954059; 755715, 3954502; 755295, 3954246; 755299, 3954110; 755014, 3953871; 755837, 3953057; 755884, 3952815; 755772, 3952588; 756007, 3952600; 756006, 3952390; 755863, 3952018; 755458, 3951873; 755424, 3951773; 755507, 3951608; 755206, 3951465; 755086, 3951288; 754878, 3951181; 754722, 3950867; 754612, 3950785; 754358, 3950847; 754180, 3950747; 754207, 3950531; 754017, 3950341; 753934, 3950258; 753718, 3949714; 753969, 3949413; 753850, 3949020; 753846, 3948668; 753637, 3949080; 752412, 3950170; 752330, 3950365; 752195, 3950371; 751675, 3950945; 751199, 3951131; 750465, 3952104; 750202, 3952182; 750202, 3952580; 750094, 3953028; 750327, 3954015; 750668, 3954626; 750740, 3954967; 750704, 3955954; 750345, 3956420; 750345, 3956582; 749825, 3956869; 749717, 3957012; 749387, 3957007; 749153, 3957003; 748622, 3956995; 748281, 3957497; 747851, 3957389; 747707, 3957623; 747223, 3957676; 746949, 3957940; 746960, 3958189; 746964, 3958189; 746969, 3958189; 746974, 3958190; 746979, 3958190; 746984, 3958192; 746987, 3958193; 748248, 3958601; 748613, 3958682; 749346, 3958829; 750980, 3959017; 751110, 3959021; 751879, 3958930; 751969, 3958909; 752071, 3958850; 752136, 3958796; 752162, 3958736; 752241, 3958349; 752242, 3958344; 752244, 3958339; returning to 752244, 3958339.

(iii) NOTE: Unit SLO–1 is depicted on Map 18—Unit SLO–1A and SLO–1B, which follows:

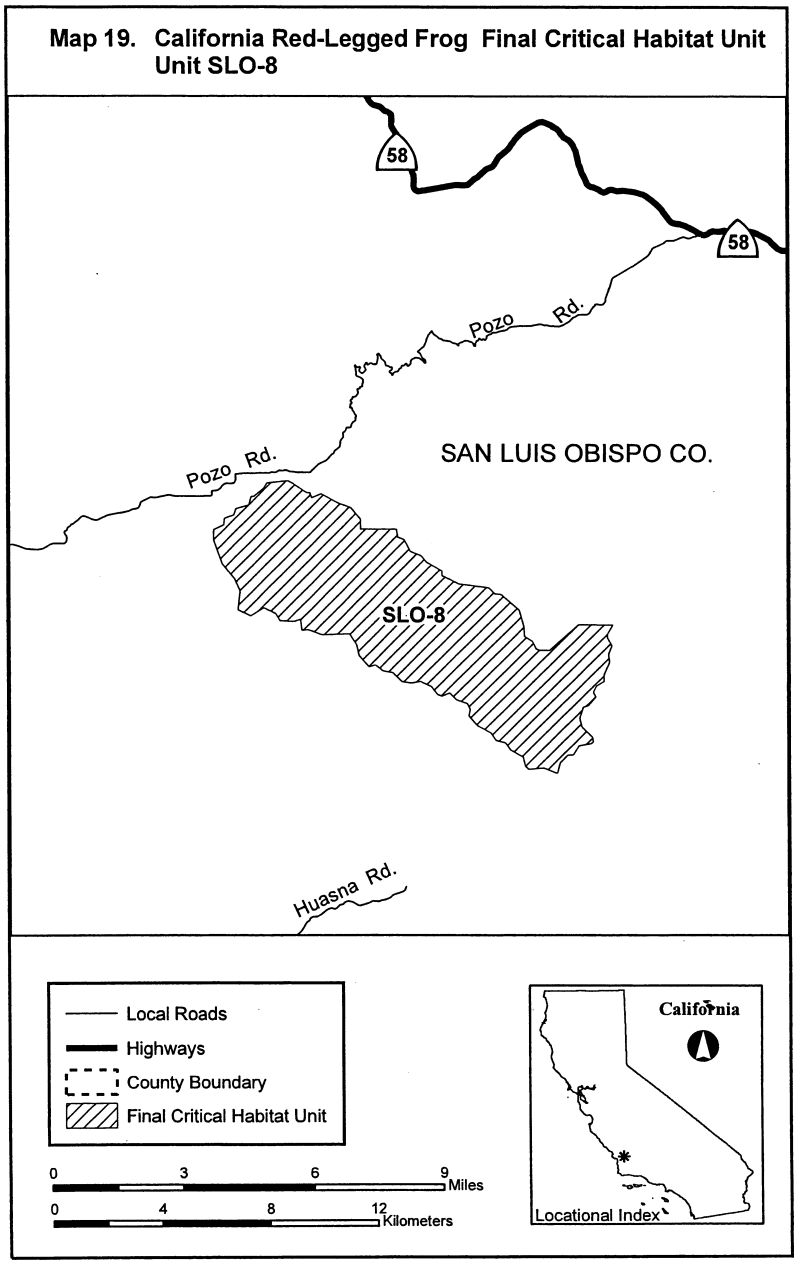


(28) Unit SLO–8, San Luis Obispo County, California.

(i) From USGS 1:24,000 scale quadrangle Caldwell Mesa, La Panza, Los Machos Hills and Poza Summit. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 742342, 3910355; 742896, 3909995; 742987, 3910011; 743049, 3909814; 743416, 3909965; 744021,

3909620; 744518, 3909447; 744885, 3909015; 744885, 3908647; 746225, 3908647; 746268, 3908345; 746506, 3908258; 746743, 3907826; 746821, 3907792; 747132, 3907653; 747345, 3907423; 747690, 3907221; 747910, 3907092; 747910, 3906919; 748119, 3906818; 748537, 3906616; 749639, 3906465; 749834, 3906249; 750071, 3906227; 750719, 3905644; 750869, 3905120; 750904, 3904999; 750913, 3904672; 751216, 3904477; 751288, 3904321; 751346, 3904196; 751475, 3904131; 751843, 3904131; 752901, 3905104; 754148, 3905082; 753954, 3904740; 753956, 3904595; 754119, 3904319; 753994, 3903997; 754040, 3903708; 753829, 3903239; 753826, 3902991; 753536, 3902799; 753435, 3902578; 753528, 3902392; 753250, 3902082; 753057, 3902009; 752924, 3901603; 753012, 3901277; 753401, 3900906; 753421, 3900721; 753352, 3900652; 752897, 3900587; 752686, 3900236; 752480, 3900225; 752269, 3900006; 752208, 3899942; 752105, 3899557; 751890, 3899641; 751610, 3899752; 751065, 3899718; 750934, 3899819; 750857, 3900160; 750382, 3900434; 750209, 3900688; 749877, 3900774; 749682, 3901061; 749177, 3901338; 748884, 3901682; 748920, 3901927; 748835, 3902149; 748448, 3902277; 748180, 3902541; 747898, 3902431; 747717, 3902498; 747516, 3902788; 747099, 3902976; 746746, 3902918; 746410, 3902963; 746081, 3903296; 745712, 3903361; 745413, 3903584; 745169, 3903525; 744798, 3903936; 744720, 3904350; 744449, 3904751; 743419, 3904715; 742926, 3904904; 742676, 3904893; 742626, 3905286; 742409, 3905213; 741878, 3905244; 741711, 3905511; 741283, 3905727; 740794, 3905414; 740339, 3905647; 740412, 3906357; 740218, 3906811; 739743, 3907372; 739722, 3907430; 739440, 3908215; 739455, 3908624; 739820, 3908802; 739831, 3909034; 740192, 3909165; 740264, 3909401; 740740, 3909546; 740811, 3909852; 740928, 3909862; 741281, 3910151; 741407, 3910358; 742175, 3910446; returning to 742342, 3910355.

(ii) NOTE: Unit SLO–8 (Map 19) follows:



(29) Unit STB–1, Santa Barbara County, California.

(i) From USGS 1:24,000 scale quadrangle Foxen Canyon, Manzanita Mtn., Tepusquet Canyon and Zaca Lake. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 760562, 3876097; 760672, 3876042; 761005, 3876093; 761484, 3875882; 761915, 3875540; 762011,

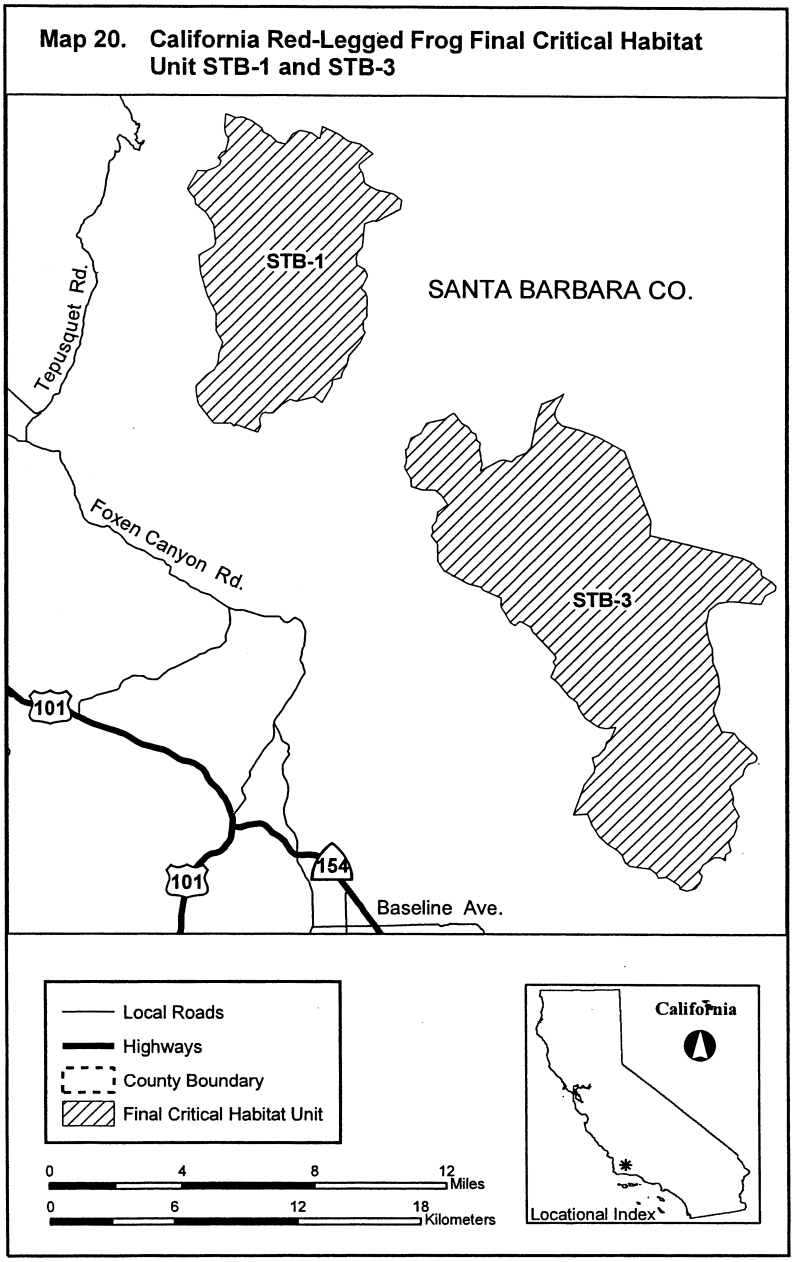
3875342; 762395, 3875163; 762670, 3874870; 763079, 3874758; 763422, 3875236; 763812, 3875437; 764363, 3875306; 764762, 3875023; 764895, 3875633; 765728, 3875247; 766130, 3874926; 766773, 3874765; 767375, 3874303; 766692, 3873794; 766680, 3873615; 766866, 3873352; 766958, 3872847; 767518, 3872546; 768333, 3872362; 768758, 3872044; 768701, 3871632; 767557, 3871024; 767339, 3871050; 766934, 3870909; 766834, 3869773; 766590, 3869471; 766520, 3869233; 766558, 3868884; 766939, 3868674; 767084, 3868355; 766763, 3867725; 766960, 3867566; 767061, 3867318; 767053, 3866343; 766871, 3866166; 766875, 3865716; 766960, 3865587; 766724, 3865095; 766178, 3864457; 766084, 3864002; 766071, 3863939; 766041, 3863893; 765862, 3863616; 765794, 3863346; 765381, 3863233; 765364, 3863228; 765331, 3862966; 765311, 3862929; 764940, 3862265; 764868, 3862136; 764482, 3862406; 763590, 3862178; 763295, 3862281; 762879, 3862024; 762469, 3861631; 762204, 3861602; 762105, 3861666; 761931, 3861582; 761788, 3861358; 761850, 3860994; 761705, 3860676; 760807, 3861013; 760636, 3861044; 760566, 3860969; 760433, 3861135; 759600, 3861135; 758845, 3862084; 758767, 3862569; 758748, 3862937; 759290, 3863518; 759639, 3863731; 759813, 3864060; 759841, 3864364; 759852, 3864486; 760046, 3865087; 759717, 3865648; 759717, 3866501; 759310, 3867372; 758961, 3868554; 758897, 3869361; 759610, 3869788; 759707, 3869963; 759591, 3870865; 759205, 3871457; 758719, 3871858; 758710, 3872086; 758624, 3872197; 758330, 3872577; 758585, 3873031; 758824, 3873459; 759241, 3873456; 759706, 3873605; 759924, 3873760; 759967, 3873943; 759819, 3874091; 760002, 3874342; 760181, 3874444; 760333, 3875007; 760185, 3875250; 760134, 3875544; 760198, 3876182; 760214, 3876232; returning to 760562, 3876097;

(ii) NOTE: Unit STB–1 is depicted on Map 20—Unit STB–1 and STB–3; see paragraph (30)(ii):

(30) Unit STB–3, Santa Barbara County, California.

(i) From USGS 1:24,000 scale quadrangle Bald Mountain, Figueroa Mtn., Hurricane Deck and Zaca Lake. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 774262, 3851242; 774038, 3851378; 773599, 3852194; 773610, 3852585; 772721, 3852969; 772605, 3853117; 772049, 3853270; 770806, 3853935; 770526, 3854367; 770502, 3855237; 770473, 3855275; 770208, 3855631; 770277, 3855831; 770248, 3856093; 770455, 3856359; 770525, 3856800; 771005, 3857165; 770696, 3857635; 770372, 3857882; 769786, 3857861; 769225, 3858043; 769214, 3858418; 768882, 3858990; 768993, 3859243; 768942, 3859847; 769055, 3859907; 769200, 3860391; 769683, 3860633; 769973, 3861140; 770820, 3861334; 771313, 3861655; 771327, 3861637; 771705, 3861144; 771971, 3860990; 772182, 3860704; 772385, 3860618; 772427, 3860315; 772595, 3860173; 772560, 3859857; 772675, 3859142; 772587, 3858807; 773540, 3859330; 773731, 3859358; 774108, 3859260; thence east to UTM zone 11, land bounded by the following UTM 11 NAD 83 coordinates (E, N): 225709, 3859505; 226191, 3859671; 226446, 3859945; 226779, 3861260; 227069, 3862025; 227901, 3862297; 228180, 3862460; 227736, 3861694; 227674, 3861404; 227811, 3861121; 228015, 3860908; 228771, 3860676; 229717, 3860243; 230921, 3859474; 231976, 3855997; 231890, 3855313; 236301, 3853942; 236842, 3853657; 236927, 3853500; 237181, 3853315; 237180, 3853032; 237675, 3852714; 237864, 3852491; 237820, 3852284; 237295, 3852044; 237085, 3851654; 235563, 3851863; 234961, 3851815; 234496, 3851477; 234322, 3850773; 234404, 3850093; 234556, 3849573; 234532, 3848910; 234739, 3848334; 234781, 3847688; 234766, 3847430; 234422, 3846606; 234430, 3846444; 234732, 3845518; 235368, 3845399; 235556, 3845096; 236410, 3844198; 236413, 3844054; 236297, 3843925; 235968, 3843843; 235779, 3843622; 235662, 3843307; 234986, 3842797; 235154, 3842214; 235086, 3841955; 235333, 3841405; 235375, 3841313; 235220, 3841130; 235232, 3840799; 235079, 3840429; 234758, 3840083; 234863, 3839626; 234569, 3839466; 234551, 3839186; 234319, 3839348; 234045, 3839362; 233445, 3839043; 233229, 3838675; 233359, 3838487; 233241, 3838166; 233011, 3837900; 232617, 3837779; 232272, 3837921; 232254, 3838087; 231644, 3838529; 231264, 3838496; 231181, 3838751; 230923, 3838980; 229978, 3839158; 229754, 3839349; 229620, 3839728; 229455, 3839945; 228963, 3840302; 228573, 3840711; 228264, 3841264; 228105, 3841830; 227767, 3841828; 227388, 3841827; 227527, 3842150; 227858, 3842917; 228003, 3843254; 228529, 3843869; 228576, 3844116; 228496, 3844558; 228766, 3844658; 229104, 3845002; 229223, 3845301; 229404, 3845439; 229698, 3845994; 229240, 3845960; 228868, 3846057; 228239, 3846540; 227986, 3846998; 227904, 3847345; 227540, 3847621; 227052, 3848344; 226719, 3848644; 226976, 3849159; 226861, 3849365; 227014, 3849486; 227022, 3849580; 226902, 3849798; 225971, 3850915; 225899, 3851125; 225373, 3851455; thence west to UTM zone 10 to the point of beginning at UTM 10 NAD 83 coordinates 774262, 3851242.

(ii) NOTE: Unit STB–3 is depicted on Map 20—Unit STB–1 and STB–3, which follows:



(31) Unit STB–4, Santa Barbara County, California.

(i) From USGS 1:24,000 scale quadrangle Lompoc Hills and Tranquillon Mtn. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 731548, 3828414; 731725, 3828302; 732482, 3828211; 733060, 3827929; 733373, 3827572; 733774, 3827615; 734461, 3827273;

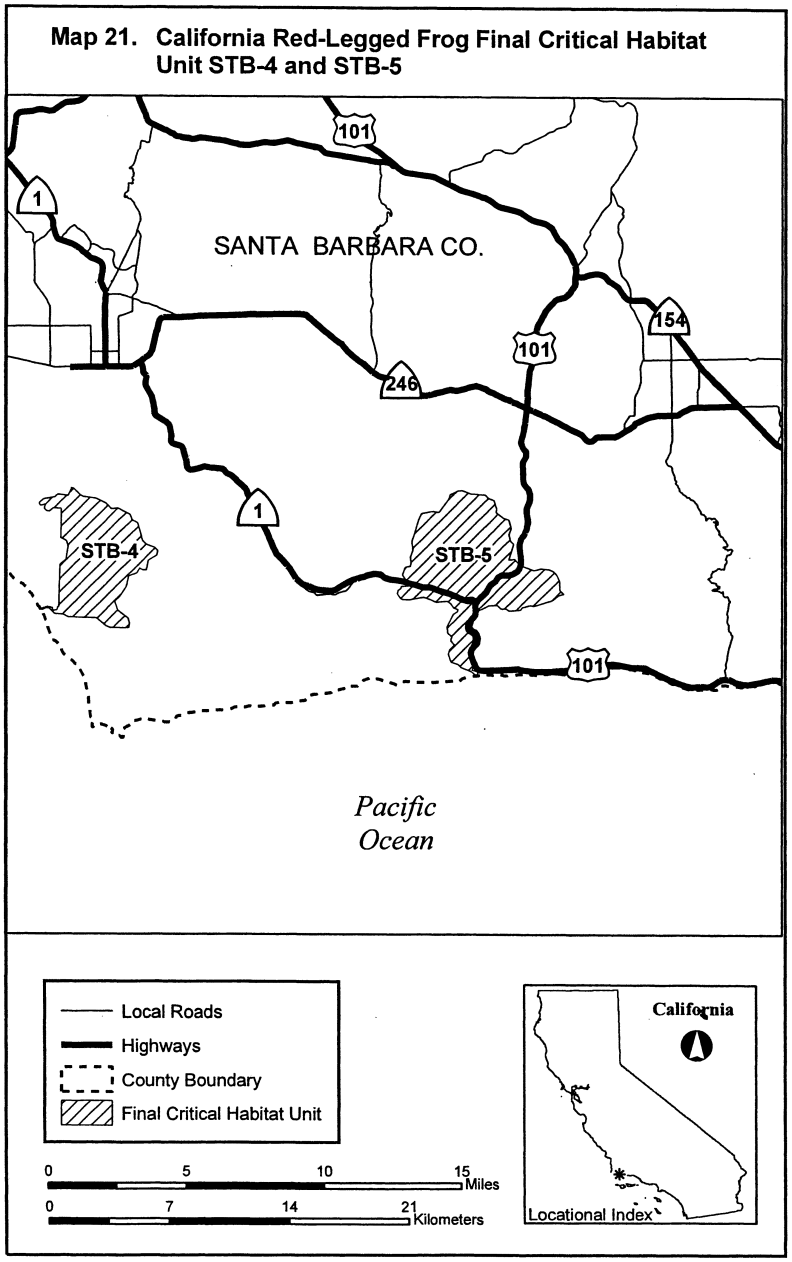
734567, 3826941; 734874, 3826750; 735166, 3825748; 735374, 3825521; 735892, 3825308; 736056, 3825108; 736007, 3824849; 735520, 3824562; 735383, 3823999; 735198, 3823985; 735011, 3824092; 734837, 3823821; 734370, 3823633; 734241, 3823031; 733859, 3822409; 733592, 3822135; 733760, 3821640; 734349, 3821148; 734434, 3820848; 734395, 3820592; 733328, 3820601; 733075, 3820689; 732500, 3821165; 730834, 3821228; 730572, 3821371; 730039, 3821421; 729724, 3821725; 729488, 3821739; 729276, 3821643; 729286, 3821733; 729502, 3821795; 729515, 3821793; 729523, 3821801; 729615, 3821828; 729923, 3821747; 729935, 3821706; 729936, 3821704; 729938, 3821604; 730174, 3821644; 730245, 3821754; 730246, 3821785; 730311, 3821835; 730316, 3822045; 730366, 3822066; 730318, 3822100; 730375, 3824296; 730715, 3824569; 730844, 3825381; 730736, 3825725; 730416, 3825881; 730459, 3827556; 730445, 3827556; 730447, 3827602; 729977, 3827620; 729742, 3827441; 729579, 3827448; 729425, 3827598; 729508, 3827830; 729452, 3827821; 729430, 3827848; 729395, 3827811; 729190, 3827777; 729126, 3827916; 729111, 3827926; 729386, 3828164; 730093, 3828281; 730232, 3828426; 730845, 3828360; 731042, 3828827; 731183, 3828800; returning to 731548, 3828414;

(ii) NOTE: Unit STB–4 is depicted on Map 21—Unit STB–4 and STB–5; see paragraph (32)(ii):

(32) Unit STB–5, Santa Barbara County, California.

(i) From USGS 1:24,000 scale quadrangle Gaviota, Santa Rosa Hills and Solvang. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 755821, 3827482; 756293, 3827116; 756595, 3827008; 756734, 3826502; 756591, 3826150; 756701, 3825778; 756876, 3825582; 756583, 3824656; 756924, 3824697; 757173, 3824401; 758062, 3824046; 758483, 3824146; 758956, 3824097; 759185, 3823989; 759343, 3823839; 759356, 3823826; 759563, 3823388; 759577, 3822909; 759783, 3822682; 759485, 3822582; 759129, 3822293; 758049, 3821948; 757890, 3821985; 757386, 3821856; 757275, 3821711; 756624, 3821644; 756443, 3821777; 756184, 3821764; 756165, 3821780; 756139, 3821803; 755941, 3821976; 755398, 3821963; 755263, 3821895; 754711, 3821614; 754655, 3821585; 754606, 3821560; 754109, 3820817; 754319, 3820487; 754595, 3820335; 754715, 3820089; 754707, 3819800; 754623, 3819640; 754238, 3819306; 754414, 3818708; 754405, 3818492; 754507, 3818393; 754442, 3818163; 754781, 3818045; 754712, 3817826; 754353, 3818081; 753795, 3818299; 753620, 3818490; 753200, 3818625; 753151, 3818752; 753015, 3819109; 753052, 3819219; 753096, 3819346; 753385, 3819620; 753176, 3819898; 753236, 3820136; 752987, 3820348; 752961, 3820749; 753329, 3821454; 753567, 3821609; 753589, 3821730; 753341, 3821827; 753202, 3822071; 753191, 3822091; 753174, 3822100; 752961, 3822212; 752599, 3822188; 752336, 3822171; 751571, 3822432; 750711, 3822281; 750371, 3822319; 750231, 3822360; 750007, 3822667; 750066, 3822856; 750213, 3822944; 750268, 3823084; 750652, 3823110; 750716, 3823220; 750335, 3823770; 750488, 3824163; 750596, 3824256; 750780, 3824259; 750839, 3824376; 750807, 3824796; 750948, 3825215; 750875, 3825695; 751257, 3826992; 751444, 3827363; 752145, 3827504; 752493, 3827446; 753043, 3828218; 753153, 3828494; 753588, 3828705; 753846, 3828746; 754353, 3828538; 755206, 3828493; 755414, 3828288; 755742, 3828169; 755879, 3827637; returning to 755821, 3827482;

(ii) NOTE: Unit STB–5 is depicted on Map 21—Unit STB–4 and STB–5, which follows:

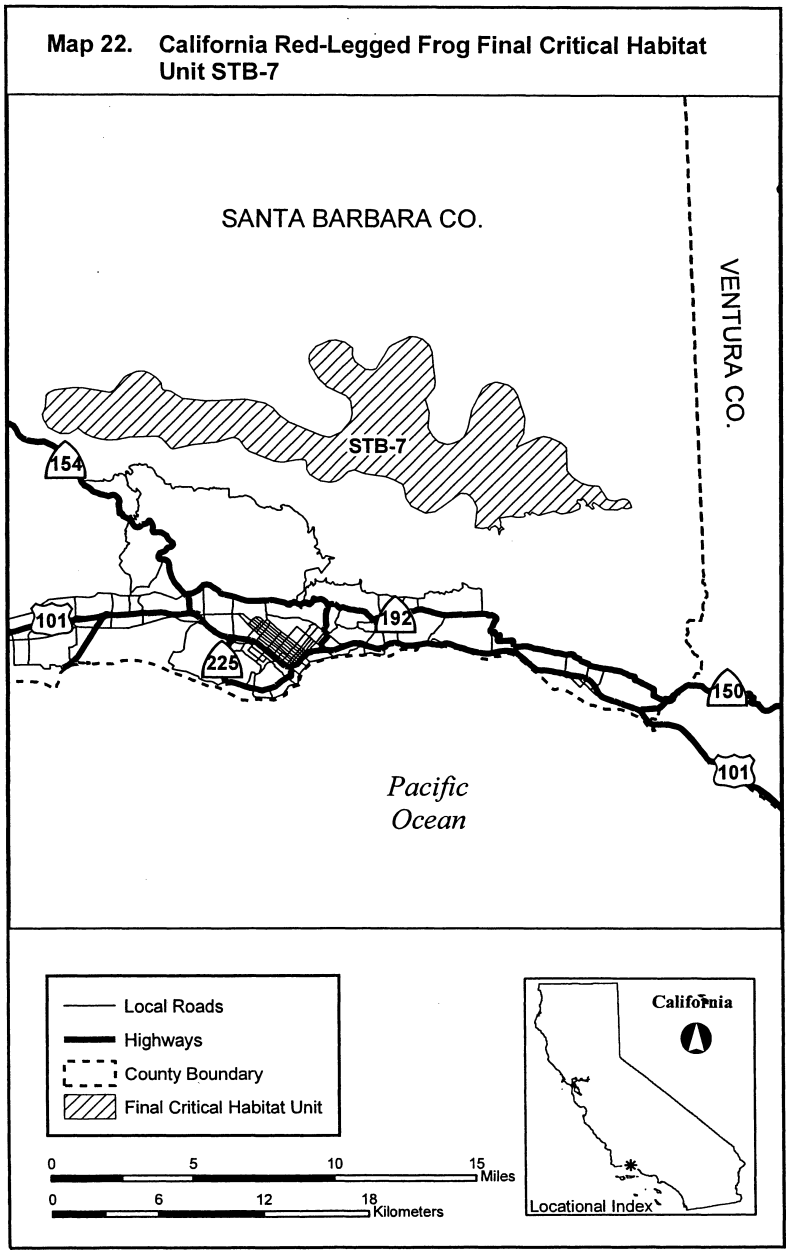


(33) Unit STB–7, Santa Barbara County, California.

(i) From USGS 1:24,000 scale quadrangles San Marcos Pass, Little Pine Mtn., Hildreth Peak, and Carpinteria. Land bounded by the following UTM Zone 11 NAD 83 coordinates (E,N): 261103, 3828674; 261164, 3826939; 261110, 3826616; 260560, 3825969; 260729, 3825227; 260615,

3824375; 260851, 3823866; 261151, 3823533; 261618, 3823357; 261958, 3823391; 262376, 3823540; 262618, 3823725; 262855, 3824249; 263136, 3825243; 263835, 3826416; 264136, 3826614; 264597, 3826733; 265253, 3826531; 265552, 3826327; 265768, 3825951; 266098, 3824601; 265982, 3823698; 265535, 3823047; 265592, 3822987; 266727, 3823425; 267083, 3823488; 267479, 3823387; 268046, 3823105; 268361, 3822771; 268293, 3821490; 268561, 3821099; 269029, 3820759; 269482, 3820583; 270054, 3820492; 270468, 3819779; 270489, 3819741; 270492, 3819739; 270620, 3819649; 270928, 3819610; 271418, 3819699; 271608, 3819634; 271752, 3819512; 271827, 3819173; 271608, 3819132; 271317, 3819192; 271284, 3819199; 271037, 3819072; 270265, 3819161; 269702, 3819603; 269601, 3819463; 269722, 3819264; 269625, 3819207; 269402, 3819428; 269250, 3819421; 269324, 3819558; 269217, 3819704; 269122, 3819834; 269002, 3819743; 268811, 3819808; 268745, 3819691; 268916, 3819504; 268888, 3819285; 268432, 3819124; 267834, 3819023; 267398, 3819234; 266530, 3819032; 266290, 3819197; 266215, 3819172; 266192, 3819268; 266078, 3819084; 265890, 3819272; 265721, 3819174; 265774, 3819042; 265701, 3818991; 265316, 3818973; 264966, 3819081; 264360, 3818999; 264304, 3818944; 264406, 3818688; 264333, 3818599; 264541, 3818360; 264384, 3818318; 264224, 3818038; 264202, 3818428; 264051, 3818575; 263826, 3818481; 263743, 3818335; 263566, 3818517; 263373, 3818454; 262902, 3818541; 263099, 3819682; 262878, 3820190; 262577, 3820494; 262253, 3820533; 260704, 3819562; 260200, 3819503; 259373, 3819970; 259106, 3820421; 259050, 3821027; 258954, 3821266; 258476, 3821560; 258009, 3821736; 256835, 3821963; 256267, 3822216; 255895, 3822139; 255591, 3821838; 255399, 3821743; 255172, 3821630; 254846, 3821595; 254318, 3821700; 254205, 3821777; 253739, 3822100; 253585, 3822370; 253569, 3822828; 253499, 3822948; 253028, 3822992; 252203, 3822869; 251749, 3822986; 250409, 3823601; 250151, 3823845; 249884, 3824310; 249725, 3824418; 249491, 3824469; 248569, 3824246; 247209, 3824198; 246082, 3824010; 245920, 3824045; 245659, 3824394; 245480, 3824633; 245204, 3824774; 243685, 3824819; 243619, 3824809; 242973, 3824708; 242368, 3824711; 242090, 3824789; 241548, 3824942; 241098, 3825191; 241040, 3825243; 240753, 3825497; 240212, 3825225; 240198, 3825218; 240102, 3825224; 239733, 3825248; 239125, 3825602; 239065, 3825637; 238784, 3826117; 238754, 3826387; 238971, 3826791; 239043, 3827473; 239174, 3827597; 239562, 3827733; 240553, 3827806; 241172, 3827758; 242696, 3827403; 242936, 3827529; 243487, 3828176; 243727, 3828316; 243966, 3828405; 244280, 3828521; 244619, 3828511; 244969, 3828382; 245345, 3828120; 245601, 3827774; 245609, 3827537; 245707, 3827372; 246089, 3827302; 246754, 3826840; 248135, 3826621; 250336, 3826570; 251450, 3826301; 251869, 3825993; 252196, 3825585; 252728, 3825127; 254548, 3824276; 254972, 3824146; 255659, 3824405; 256208, 3824993; 256339, 3825402; 256316, 3826140; 256089, 3826442; 254999, 3827020; 254542, 3827506; 254110, 3828389; 254090, 3828685; 254141, 3828919; 254538, 3829364; 255288, 3829666; 255686, 3829650; 256182, 3829502; 256599, 3829170; 256571, 3828713; 256693, 3828356; 257269, 3827896; 257621, 3827812; 257859, 3827878; 258681, 3829051; 258881, 3829197; 259702, 3829550; 259871, 3829623; 260251, 3829590; 260485, 3829475; 260582, 3829428; 260952, 3829069; 261103, 3828674; returning to 261103, 3828674.

(ii) NOTE: Unit STB–7 (Map 22) follows:



(34) Unit VEN–1, Ventura County, California.

(i) From USGS 1:24,000 scale quadrangles Matilija and Wheeler Springs. Land bounded by the following UTM Zone 11 NAD 83 coordinates (E,N): 286767, 3821446; 287051, 3821146; 287541, 3820987; 287716, 3820448; 288081, 3820234; 288388, 3820156; 288676, 3819720; 288797, 3819538;

289000, 3819452; 289049, 3819400; 289251, 3819184; 289865, 3819014; 290257, 3819110; 290385, 3819028; 290382, 3818716; 290168, 3818372; 289870, 3818346; 289698, 3818038; 289637, 3817929; 289617, 3817336; 289730, 3817002; 289419, 3817006; 288934, 3816842; 288898, 3816819; 288224, 3816394; 287682, 3816263; 287327, 3816284; 287120, 3816311; 287012, 3816496; 286768, 3816629; 286380, 3816607; 286341, 3816936; 286253, 3816956; 286201, 3817346; 286083, 3817565; 285618, 3817694; 285106, 3817671; 284491, 3817968; 283910, 3817995; 283570, 3818117; 283229, 3817896; 282887, 3817826; 282295, 3817957; 282286, 3819293; 282458, 3819499; 282596, 3819663; 282602, 3819671; 282643, 3819859; 282998, 3820160; 283025, 3820294; 283114, 3820738; 283185, 3821088; 283536, 3821316; 283765, 3821626; 284412, 3821742; 284830, 3821570; 285434, 3821504; 286232, 3821724; 286706, 3822022; 286767, 3821446; returning to 286767, 3821446.

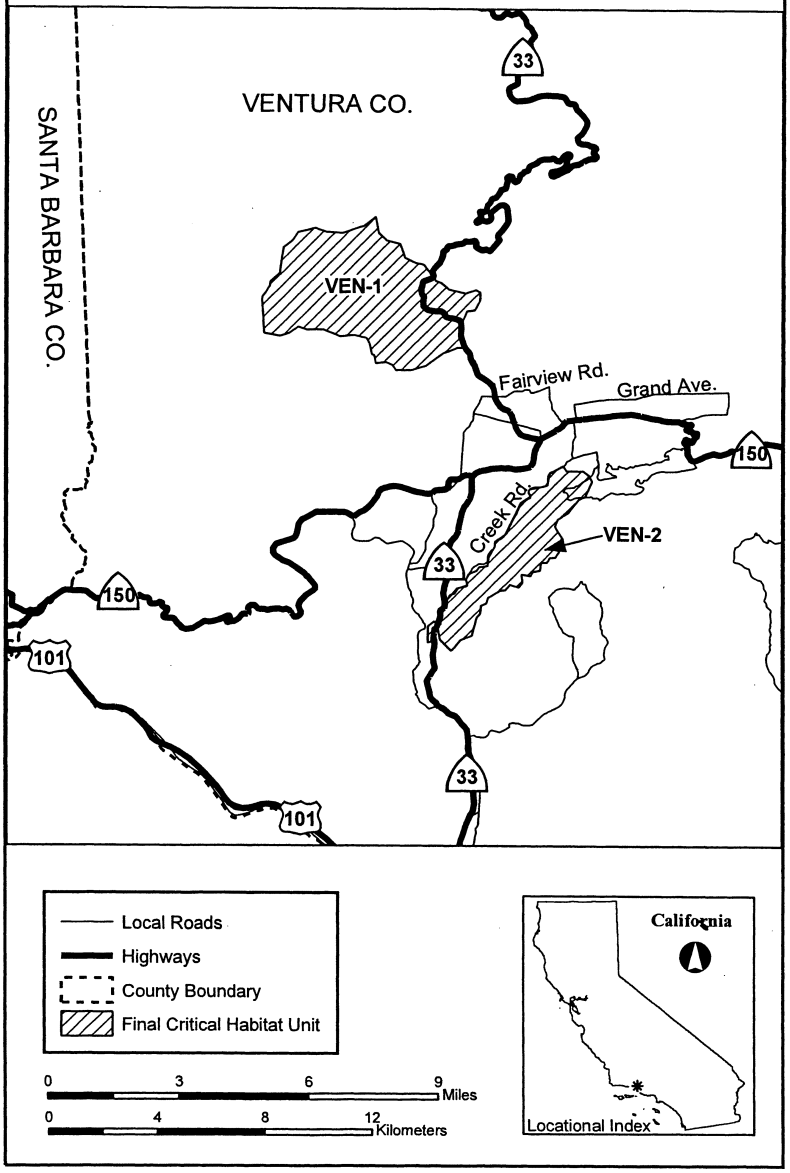
(ii) NOTE: Unit VEN–1 is depicted on Map 23—Unit VEN–1 and VEN–2; see paragraph (35)(ii):

(35) Unit VEN–2, Ventura County, California.

(i) From USGS 1:24,000 scale quadrangles Matilija, Ventura, and Ojai. Land bounded by the following UTM Zone 11 NAD 83 coordinates (E,N): 292389, 3808989; 292269, 3808813; 292067, 3808838; 292001, 3808540; 291744, 3808513; 291660, 3808360; 291309, 3808445; 291346, 3808110; 291188, 3807970; 290857, 3808078; 290683, 3807876; 290516, 3807881; 290022, 3807626; 289938, 3807423; 289743, 3807351; 289693, 3807054; 289556, 3806919; 289357, 3806257; 288924, 3806106; 288596, 3805768; 288535, 3805756; 288169, 3806170; 288139, 3806566; 288022, 3806679; 287922, 3806605; 287842, 3806111; 287702, 3806086; 287770, 3806708; 287997, 3806862; 288226, 3806724; 288210, 3807181; 288352, 3807324; 288495, 3807334; 288507, 3807633; 288897, 3808046; 289299, 3808143; 289254, 3808351; 289400, 3808575; 289665, 3808668; 289771, 3808791; 290075, 3808823; 290121, 3809125; 290398, 3809519; 290426, 3809709; 290786, 3809928; 291436, 3811102; 291817, 3811326; 291749, 3811476; 291788, 3811585; 292474, 3811706; 292581, 3812127; 293112, 3812393; 293210, 3812196; 293840, 3812153; 294048, 3811973; 294135, 3811749; 293856, 3811194; 293598, 3811103; 293155, 3810614; 292790, 3810406; 292674, 3810144; 292894, 3809713; 292746, 3809412; 292765, 3809204; 292611, 3808985; 292389, 3808989; returning to 292389, 3808989.

(ii) NOTE: Unit VEN–2 is depicted on Map 23—Unit VEN–1 and VEN–2, which follows:

Map 23. California Red-Legged Frog Final Critical Habitat Units VEN-1 and VEN-2



(36) Unit VEN–3, Ventura and Los Angeles counties, California.

(i) From USGS 1:24,000 scale quadrangles Cobblestone Mtn. and Whitaker Peak. Land bounded by the following UTM Zone 11 NAD 83 coordinates (E,N): 339291, 3827835; 339299, 3827739; 339766, 3827357; 340374, 3827063; 340544, 3826712; 341072, 3826348; 340944, 3826090; 340929,

3825836; 341091, 3825360; 340852, 3824908; 340799, 3824021; 340501, 3823636; 340142, 3823657; 339877, 3823482; 339839, 3822849; 339931, 3822610; 340226, 3822571; 340007, 3822097; 339952, 3821528; 339632, 3821505; 339452, 3821217; 339211, 3820830; 339197, 3820598; 338908, 3820272; 338832, 3820187; 338664, 3820291; 338469, 3820694; 338411, 3820813; 338123, 3821148; 338027, 3821260; 337720, 3821344; 337668, 3821358; 336304, 3822097; 336529, 3822597; 336713, 3822708; 336854, 3823475; 335722, 3824114; 335636, 3824514; 335416, 3824690; 334902, 3824748; 334557, 3824905; 334507, 3825194; 334331, 3825218; 334164, 3825391; 334109, 3825598; 333690, 3825882; 333242, 3826358; 333195, 3826701; 333300, 3826871; 333037, 3827486; 332830, 3827662; 333176, 3827981; 333533, 3828042; 335562, 3827839; 336504, 3827892; 336890, 3827733; 336922, 3827704; 337083, 3827558; 337097, 3827574; 337171, 3827662; 337429, 3827646; 337638, 3827729; 337852, 3827893; 338100, 3827946; 338394, 3827861; 339081, 3828201; 339230, 3828192; 339304, 3828065; 339291, 3827835; returning to 339291, 3827835.

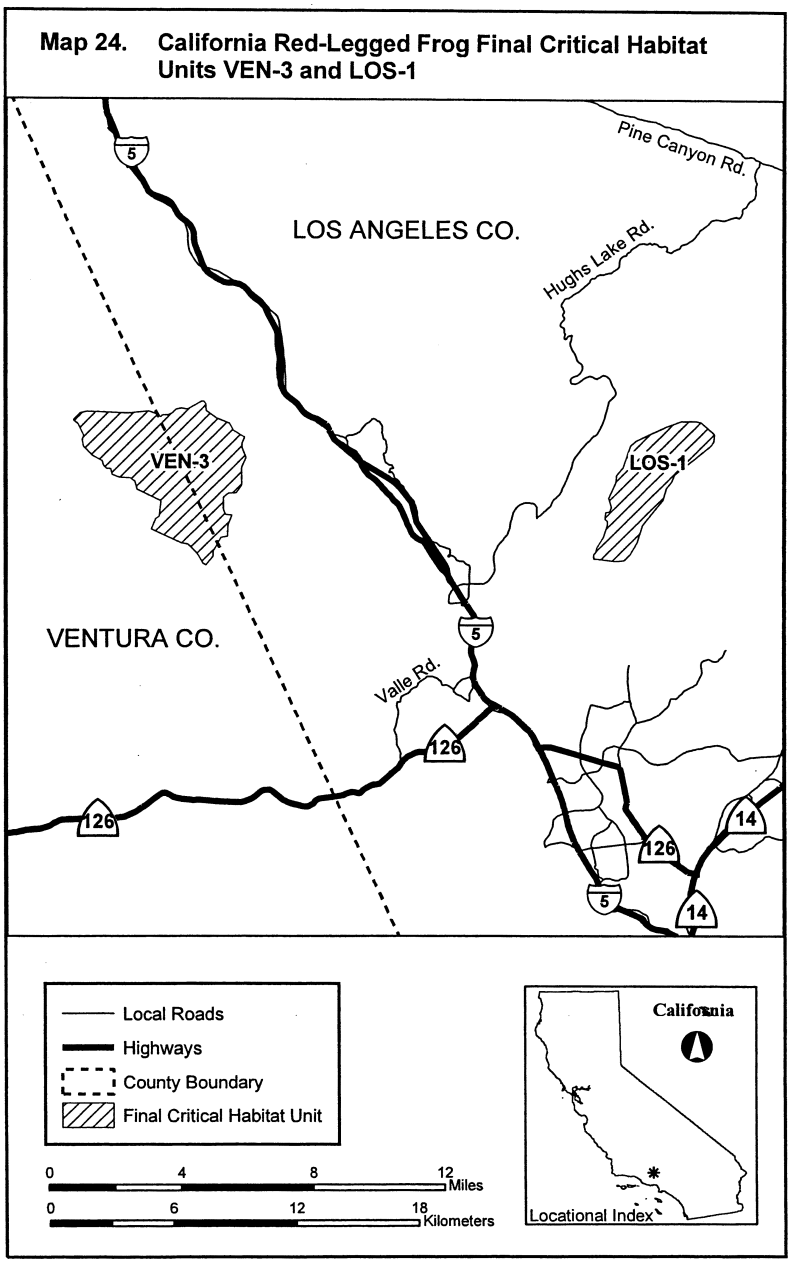
(ii) NOTE: Unit VEN–3 is depicted on Map 24—Unit VEN–3 and LOS–1; see paragraph (37)(ii):

(37) Unit LOS–1, Los Angeles County, California.

(i) From USGS 1:24,000 scale quadrangles Warm Springs Mountain and Green Valley. Land bounded by the following UTM Zone 11, NAD 83 coordinates (E,N): 359031, 3819227; 358730, 3819226; 358022, 3819358; 357682, 3819421; 357694, 3819619; 357819, 3819717; 357871, 3819926; 358218, 3820421; 358455, 3821056; 358466, 3821241; 358352, 3821327; 358424, 3821653; 358610, 3821669; 358704, 3821902; 358598, 3822345; 358987, 3823103; 359060, 3823442; 359387, 3823820; 359806, 3824854; 360096, 3825062; 361616, 3825686; 362356, 3825881; 363057, 3825879; 363330, 3825796; 363561, 3825563; 363803, 3825319; 363930, 3825191; 363867, 3824811; 363846, 3824782; 363757, 3824665; 363724, 3824621; 361885, 3823314; 361706, 3822967; 361437, 3822679; 361231, 3822109; 360167, 3820914; 359852, 3820073; 359475, 3819513; 359153, 3819227; 359031, 3819227; returning to 359031, 3819227.

(ii) NOTE: Unit LOS–1 is depicted on Map 24—Unit VEN–3 and LOS–1, which follows:

Map 24. California Red-Legged Frog Final Critical Habitat Units VEN-3 and LOS-1



MOUNTAIN YELLOW-LEGGED FROG (*Rana muscosa*), SOUTHERN CALIFORNIA DPS

(1) Critical habitat units are depicted for Los Angeles, San Bernardino, and Riverside Counties, California, on the maps below.

(2) The primary constituent elements of critical habitat for the mountain yellow-legged frog are:

(i) Water source(s) found between 1,214 to 7,546 ft (370 to 2,300 m) in elevation that are permanent. Water sources include, but are not limited to, streams, rivers, perennial creeks (or permanent plunge pools within intermittent creeks), pools (*i.e.*, a body of impounded water that is contained above a natural dam), and other forms of aquatic habitat. The water source should maintain a natural flow pattern including periodic natural flooding. Aquatic habitats that are used by mountain yellow-legged frog for breeding purposes must maintain water during the entire tadpole growth phase, which can be up to 2 years duration. During periods of drought, or less than average rainfall, these breeding sites may not hold water long enough for individuals to complete metamorphosis, but they would still be considered essential breeding habitat in wetter years. Further, the aquatic habitat includes:

(A) Bank and pool substrates consisting of varying percentages of soil or silt, sand, gravel cobble, rock, and boulders;

(B) Open gravel banks and rocks projecting above or just beneath the surface of the water for sunning posts;

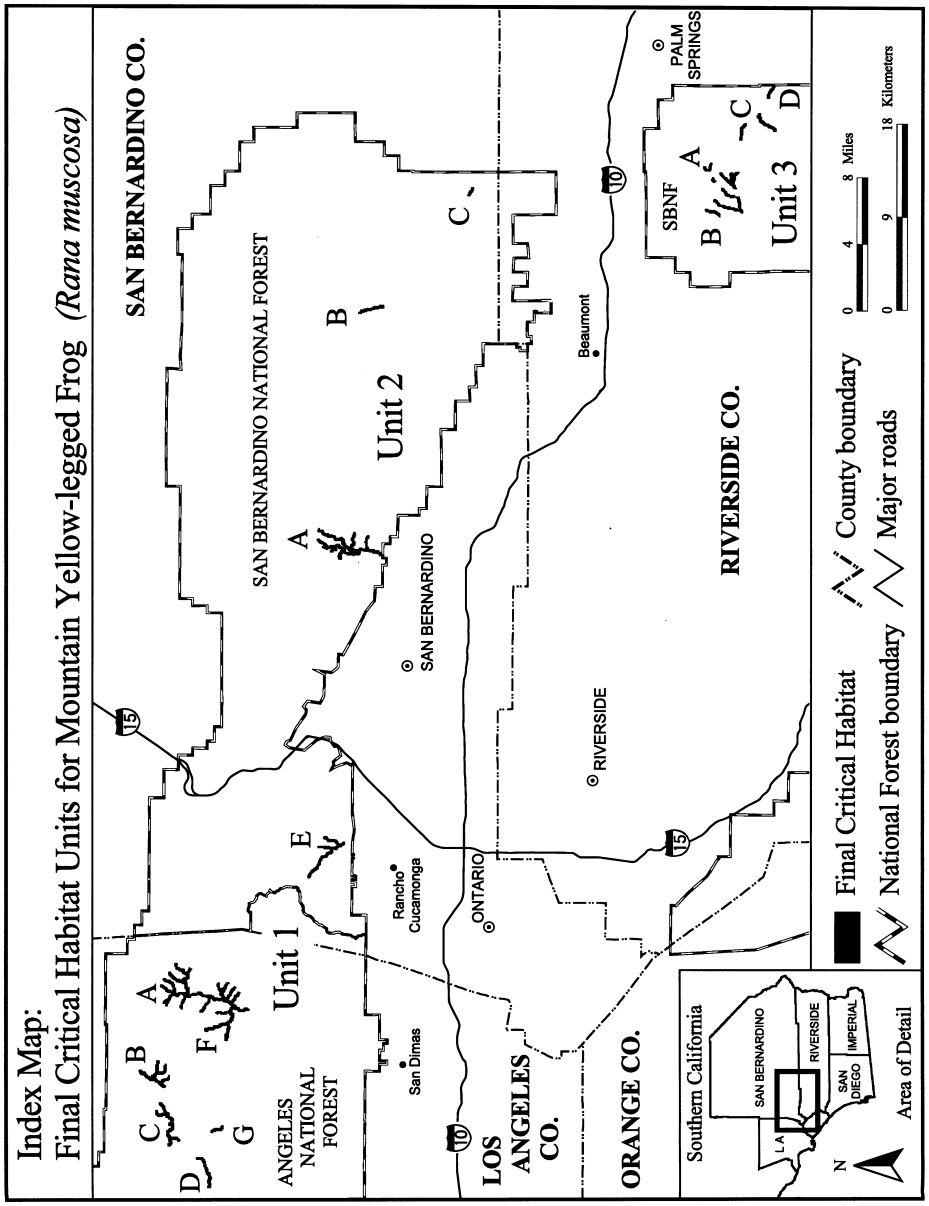
(C) Aquatic refugia, including pools with bank overhangs, downfall logs or branches, and/or rocks to provide cover from predators; and

(D) Streams or stream reaches between known occupied sites that can function as corridors for adults and frogs for movement between aquatic habitats used as breeding and/or foraging sites.

(ii) Riparian habitat and upland vegetation (e.g., ponderosa pine, montane hardwood-conifer, montane riparian woodlands, and chaparral) extending 262 feet (80 m) from each side of the centerline of each identified stream and its tributaries, that provides areas for feeding and movement of mountain yellow-legged frog, with a canopy overstory not exceeding 85 percent that allows sunlight to reach the stream and thereby provides basking areas for the species.

(3) Critical habitat does not include man-made structures existing on the effective date of this rule and not containing one or more of the primary constituent elements, such as buildings, aqueducts, airports, and roads, and the land on which such structures are located.

(4) *Critical Habitat Map Units.* Data layers defining map units were created on a base of USGS 7.5' quadrangles, and critical habitat units were then mapped using Universal Transverse Mercator (UTM) coordinates. *Note:* Index map of critical habitat units for the southern California DPS of the mountain yellow-legged frog (Map 1) follows:



(5) Unit 1: San Gabriel Mountains Unit, Los Angeles and San Bernardino Counties, California. From USGS 1:24,000 quadrangle maps Crystal Lake, Cucamonga Peak, Mount San Antonio Valyermo, and Waterman Mountain, California.

(i) Subunit 1A: San Gabriel River, East Fork Angeles National Forest, Los Angeles County, California.

(A) Land bounded by the following UTM North American Datum of 1927 (NAD27) coordinates (E, N): 434100, 3803300; 434400, 3803300; 434400, 3803100; 434300, 3803100; 434300,

3802900; 434200, 3802900; 434200, 3802800; 434100, 3802800; 434100, 3802600; 434000, 3802600; 434000, 3802500; 433800, 3802500; 433800, 3802200; 433700, 3802200; 433700, 3801900; 433600, 3801900; 433600, 3801800; 433800, 3801800; 433800, 3801900; 434200, 3801900; 434200, 3802000; 434400, 3802000; 434400, 3802100; 434500, 3802100; 434500, 3802300; 434600, 3802300; 434600, 3802500; 434700, 3802500; 434700, 3802800; 434800, 3802800; 434800, 3802900; 434900, 3802900; 434900, 3803000; 435100, 3803000; 435100, 3802700; 435000, 3802700; 435000, 3802600; 434900, 3802600; 434900, 3802200; 434800, 3802200; 434800, 3802100; 434700, 3802100; 434700, 3801900; 434600, 3801900; 434600, 3801800; 434400, 3801800; 434400, 3801700; 434000, 3801700; 434000, 3801600; 433400, 3801600; 433400, 3801500; 433300, 3801500; 433300, 3801400; 433400, 3801400; 433400, 3801300; 433500, 3801300; 433500, 3800400; 433900, 3800400; 433900, 3800500; 434000, 3800500; 434000, 3800600; 434200, 3800600; 434200, 3800500; 434300, 3800500; 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3796600; 432500, 3796600; 432500, 3796900; 432600, 3796900; 432600, 3797100; 432500, 3797100; 432500, 3797400; 432600, 3797400; 432600, 3797500; 432800, 3797500; 432800, 3797700; 432700, 3797700; 432700, 3797800; 432300, 3797800; 432300, 3797900; 432200, 3797900; 432200, 3798000; 432100, 3798000; 432100, 3798100; 432000, 3798100; 432000, 3798200; 431700, 3798200; 431700, 3798300; 431600, 3798300; 431600, 3798400; 431400, 3798400; 431400, 3798500; 431300, 3798500; 431300, 3798600; 431200, 3798600; 431200, 3798900; 431400, 3798900; 431400, 3798800; 431500, 3798800; 431500, 3798700; 431600, 3798700; 431600, 3798600; 431800, 3798600; 431800, 3798500; 431900, 3798500; 431900, 3798400; 432100, 3798400; 432100, 3798300; 432200, 3798300; 432200, 3798200; 432300, 3798200; 432300, 3798100; 432400, 3798100; 432400, 3798000; 432800, 3798000; 432800, 3797900; 432900, 3797900; 432900, 3798200; 433000, 3798200; 433000, 3798700; 433100, 3798700; 433100, 3798900; 433300, 3798900; 433300, 3799100; 433200, 3799100; 433200, 3799300; 433100, 3799300; 433100, 3799900; 432900, 3799900; 432900, 3800300; 433000, 3800300; 433000, 3800400; 432900, 3800400; 432900, 3800500; 432600, 3800500; 432600, 3800600; 432400, 3800600; 432400, 3800700; 432200, 3800700; 432200, 3800800; 431600, 3800800; 431600, 3801000; 431700, 3801000; 431700, 3801100; 432000, 3801100; 432000, 3801000; 432400, 3801000; 432400, 3800900; 432600, 3800900; 432600, 3800800; 432700, 3800800; 432700, 3800700; 433100, 3800700; 433100, 3800600; 433200, 3800600; 433200, 3800800; 433300, 3800800; 433300, 3801200; 433100, 3801200; 433100, 3801300; 433000, 3801300; 433000, 3801600; 433100, 3801600; 433100, 3802000; 433000, 3802000; 433000, 3802100; 432800, 3802100; 432800, 3802200; 432600, 3802200; 432600, 3802300; 432400, 3802300; 432400, 3802400; 432200, 3802400; 432200, 3802500; 431900, 3802500; 431900, 3802700; 432200, 3802700; 432200, 3803000; 432400, 3803000; 432400, 3802900; 432500, 3802900; 432500, 3802800; 432600, 3802800; 432600, 3802700; 432700, 3802700; 432700, 3802500; 432800, 3802500; 432800, 3802400; 433000, 3802400; 433000, 3802300; 433200, 3802300; 433200, 3802100; 433300, 3802100; 433300, 3802000; 433400, 3802000; 433400, 3802100; 433500, 3802100; 433500, 3802500; 433600, 3802500; 433600, 3802700; 433800, 3802700; 433800, 3802800; 433900, 3802800; 433900, 3802900; 434000, 3802900; 434000, 3803100; 434100, 3803100; returning to 434100, 3803300.

(B) Map depicting subunit 1A is located at paragraph (5)(vi)(B) of this section.

(ii) Subunit 1B: Big Rock Creek, South Fork, Angeles National Forest, Los Angeles County, California.

(A) Land bounded by the following UTM NAD27 coordinates (E, N): 424400, 3805700; 424600, 3805700; 424600, 3805400; 424500, 3805400; 424500, 3805300; 424300, 3805300; 424300, 3805200; 424400, 3805200; 424400, 3805000; 424300, 3805000; 424300, 3804900; 424100, 3804900; 424100, 3804800; 424000, 3804800; 424000, 3804700; 423900, 3804700; 423900, 3804500; 423800, 3804500; 423800, 3804400; 423700, 3804400; 423700, 3804300; 424000, 3804300; 424000, 3804100; 424100, 3804100; 424100, 3804000; 424200, 3804000; 424200, 3803900; 424300, 3803900; 424300, 3803800; 425200, 3803800; 425200, 3803700; 425700, 3803700; 425700, 3803400; 425400, 3803400; 425400, 3803500; 424400, 3803500; 424400, 3803000; 424500, 3803000; 424500, 3802900; 425100, 3802900; 425100, 3802800; 425300, 3802800; 425300, 3802600; 424500, 3802600; 424500, 3802700; 424300, 3802700; 424300, 3802800; 424200, 3802800; 424200, 3803000; 424100, 3803000; 424100, 3803700; 423900, 3803700; 423900, 3803800; 423800, 3803800; 423800, 3804000; 423700, 3804000; 423700, 3803700; 423500, 3803700; 423500, 3803600; 423400, 3803600; 423400, 3803400; 423300, 3803400; 423300, 3803200; 423500, 3803200; 423500, 3803000; 423600, 3803000; 423600, 3802600; 423700, 3802600; 423700, 3802500; 423800, 3802500; 423800, 3802400; 424000, 3802400; 424000, 3802300; 423500, 3802300; 423500, 3802400; 423400, 3802400; 423400, 3802400; 423400, 3802800; 423300, 3802800; 423300, 3802900; 423200, 3802900; 423200, 3803000; 423100, 3803000; 423100, 3803100; 423000, 3803100; 423000, 3803000; 422900, 3803000; 422900, 3802800; 422800, 3802800; 422800, 3802700; 422700, 3802700; 422700, 3802800; 422600, 3802800; 422600, 3803100; 422700, 3803100; 422700, 3803200; 422800, 3803200; 422800, 3803300; 422900, 3803300; 422900, 3803400; 423000, 3803400; 423000, 3803500; 423100, 3803500; 423100, 3803600; 423200, 3803600; 423200, 3803900; 423400, 3803900; 423400, 3804500; 423500, 3804500; 423500, 3804600; 423600, 3804600; 423600, 3804700; 423700, 3804700; 423700, 3804900; 423800, 3804900; 423800, 3805000; 423900, 3805000; 423900, 3805100; 424000, 3805100; 424000, 3805400; 424100, 3805400; 424100, 3805500; 424200, 3805500; 424200, 3805600; 424400, 3805600; returning to 424400, 3805700.

(B) Map depicting subunit 1B is located at paragraph (5)(vi)(B) of this entry.

(iii) Subunit 1C: Little Rock Creek, Angeles National Forest, Los Angeles County, California.

(A) Land bounded by the following UTM NAD27 coordinates (E, N): 419500, 3803800; 420000, 3803800; 420000, 3803600; 419700, 3803600; 419700, 3803500; 419600, 3803500; 419600, 3803400; 419500, 3803400; 419500, 3803300; 419600, 3803300; 419600, 3803200; 419700, 3803200; 419700, 3802900; 420000, 3802900; 420000, 3803000; 420200, 3803000; 420200, 3803100; 420400, 3803100; 420400, 3803200; 420500, 3803200; 420500, 3803300; 420600, 3803300; 420600, 3803400; 420900, 3803400; 420900, 3803200; 420800, 3803200; 420800, 3803100; 420700, 3803100; 420700, 3803000; 420600, 3803000; 420600, 3802900; 420500, 3802900; 420500, 3802800; 420100, 3802800; 420100, 3802700; 419900, 3802700; 419900, 3802600; 419800, 3802600; 419800, 3802400; 419700, 3802400; 419700, 3802300; 419500, 3802300; 419500, 3802400; 419400, 3802400; 419400, 3802300; 419300, 3802300; 419300, 3802100; 419200, 3802100; 419200, 3802000; 419100, 3802000; 419100, 3801900; 419000, 3801900; 419000, 3801800; 418800, 3801800; 418800, 3801900; 418500, 3801900; 418500, 3801800; 417900, 3801800; 417900, 3801900; 417800, 3801900; 417800, 3802000; 417700, 3802000; 417700, 3802100; 417600, 3802100; 417600, 3802300; 417500, 3802300; 417500, 3802400; 417300, 3802400; 417300, 3802300; 417200, 3802300; 417200, 3802200; 417000, 3802200; 417000, 3801400; 416900, 3801400; 416900, 3801300; 416800, 3801300; 416800, 3801200; 416700, 3801200; 416700, 3801100; 416600, 3801100; 416600, 3801200; 416500, 3801200; 416500, 3801400; 416700, 3801400; 416700, 3802100; 416500, 3802100; 416500, 3802000; 416200, 3802000; 416200, 3802100; 416100, 3802100; 416100, 3802200;

416000, 3802200; 416000, 3802500; 416300, 3802500; 416300, 3802300; 416500, 3802300; 416500, 3802400; 416900, 3802400; 416900, 3802500; 417100, 3802500; 417100, 3802600; 417800, 3802600; 417800, 3802400; 417900, 3802400; 417900, 3802300; 418000, 3802300; 418000, 3802100; 418300, 3802100; 418300, 3802400; 418600, 3802400; 418600, 3802200; 419000, 3802200; 419000, 3802400; 419100, 3802400; 419100, 3802500; 419200, 3802500; 419200, 3802700; 419400, 3802700; 419400, 3803100; 419300, 3803100; 419300, 3803600; 419400, 3803600; 419400, 3803700; 419500, 3803700; returning to 419500, 3803800.

(B) Map depicting subunit 1C is located at paragraph (5)(vi)(B) of this entry.

(iv) Subunit 1D: Devil's Canyon, Angeles National Forest, Los Angeles County, California.

(A) Land bounded by the following UTM NAD27 coordinates (E, N): 414500, 3799300; 414700, 3799300; 414700, 3798600; 414600, 3798600; 414600, 3798500; 414500, 3798500; 414500, 3798400; 414300, 3798400; 414300, 3798300; 413900, 3798300; 413900, 3798200; 413600, 3798200; 413600, 3798100; 413400, 3798100; 413400, 3798000; 413000, 3798000; 413000, 3797800; 412600, 3797800; 412600, 3797700; 412500, 3797700; 412500, 3797600; 412300, 3797600; 412300, 3797700; 412100, 3797700; 412100, 3797800; 411800, 3797800; 411800, 3797700; 411400, 3797700; 411400, 3797800; 411300, 3797800; 411300, 3798100; 411500, 3798100; 411500, 3798000; 411800, 3798000; 411800, 3798100; 412200, 3798100; 412200, 3798000; 412300, 3798000; 412300, 3797900; 412400, 3797900; 412400, 3798000; 412700, 3798000; 412700, 3798100; 412800, 3798100; 412800, 3798200; 413100, 3798200; 413100, 3798300; 413400, 3798300; 413400, 3798400; 413700, 3798400; 413700, 3798500; 414100, 3798500; 414100, 3798600; 414200, 3798600; 414200, 3798700; 414400, 3798700; 414400, 3798800; 414500, 3798800; returning to 414500, 3799300.

(B) Map depicting subunit 1D is located at paragraph (5)(vi)(B) of this entry.

(v) Subunit 1F: San Gabriel River, East Fork, Iron Fork, Los Angeles County, California.

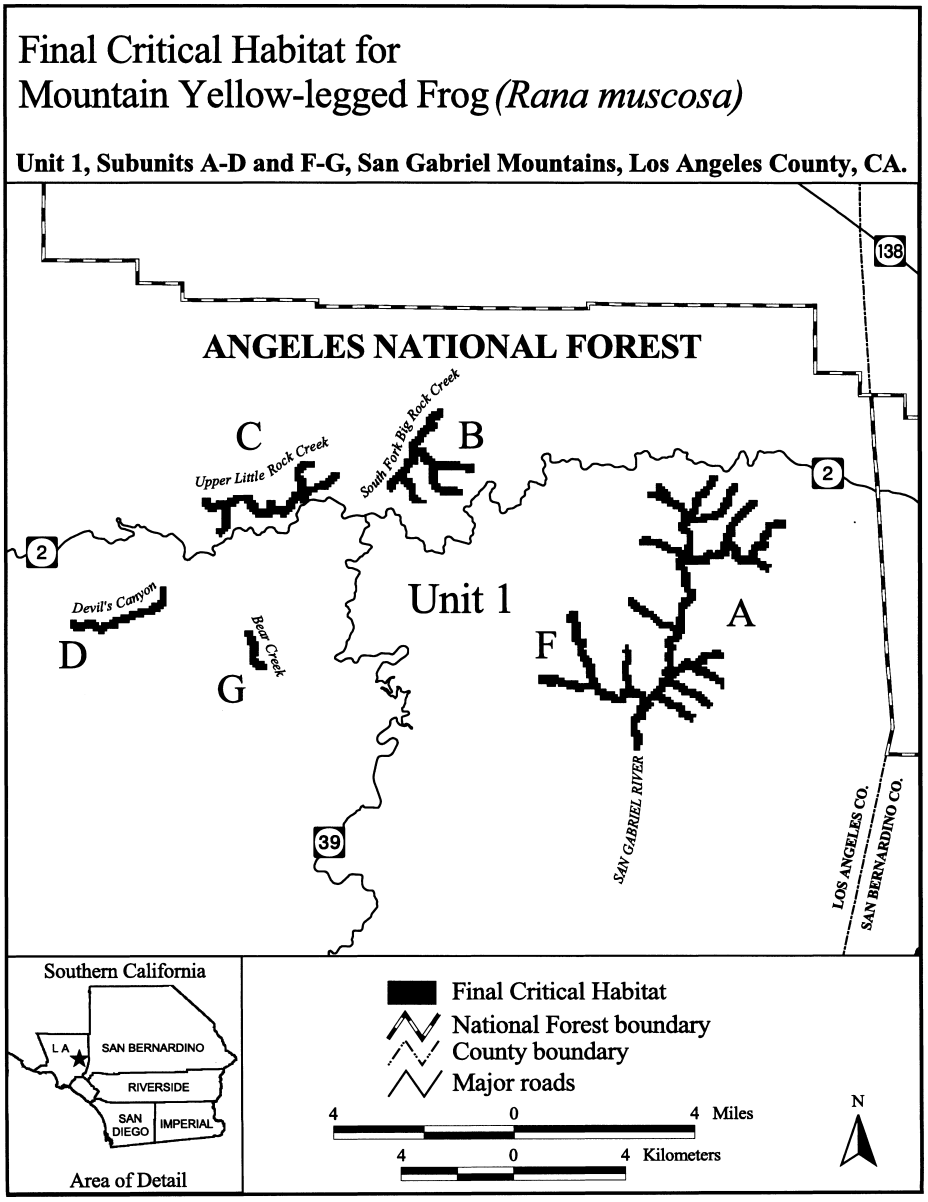
(A) Land bounded by the following UTM NAD27 coordinates (E, N): 429100, 3798400; 429400, 3798400; 429400, 3798000; 429500, 3798000; 429500, 3797400; 429700, 3797400; 429700, 3797100; 429600, 3797100; 429600, 3797000; 429700, 3797000; 429700, 3796800; 429800, 3796800; 429800, 3796700; 429900, 3796700; 429900, 3796500; 430000, 3796500; 430000, 3796000; 430100, 3796000; 430100, 3795800; 430200, 3795800; 430200, 3795500; 430100, 3795500; 430100, 3795400; 430000, 3795400; 430000, 3795600; 429600, 3795600; 429600, 3795500; 429300, 3795500; 429300, 3795600; 429000, 3795600; 429000, 3795700; 428700, 3795700; 428700, 3795800; 428600, 3795800; 428600, 3795700; 428300, 3795700; 428300, 3795800; 428000, 3795800; 428000, 3796100; 428700, 3796100; 428700, 3796000; 428900, 3796000; 428900, 3795900; 429400, 3795900; 429400, 3795800; 429800, 3795800; 429800, 3796000; 429700, 3796000; 429700, 3796400; 429600, 3796400; 429600, 3796600; 429500, 3796600; 429500, 3796800; 429400, 3796800; 429400, 3797200; 429300, 3797200; 429300, 3797300; 429200, 3797300; 429200, 3798000; 429000, 3798000; 429000, 3798300; 429100, 3798300; returning to 429100, 3798400.

(B) Map depicting subunit 1F is located at paragraph (5)(vi)(B) of this entry.

(vi) Subunit 1G: Bear Creek, Angeles National Forest, Los Angeles County, California.

(A) Land bounded by the following UTM NAD27 coordinates (E, N): 417500, 3797700; 417800, 3797700; 417800, 3797500; 417900, 3797500; 417900, 3797300; 418000, 3797300; 418000, 3796800; 417900, 3796800; 417900, 3796700; 418000, 3796700; 418000, 3796600; 418200, 3796600; 418200, 3796500; 418300, 3796500; 418300, 3796300; 417900, 3796300; 417900, 3796400; 417800, 3796400; 417800, 3796500; 417700, 3796500; 417700, 3797200; 417600, 3797200; 417600, 3797500; 417500, 3797500; returning to 417500, 3797700.

(B) Map of Unit 1, with subunits 1A, 1B, 1C, 1D, 1F, and 1G (Map 2), follows:

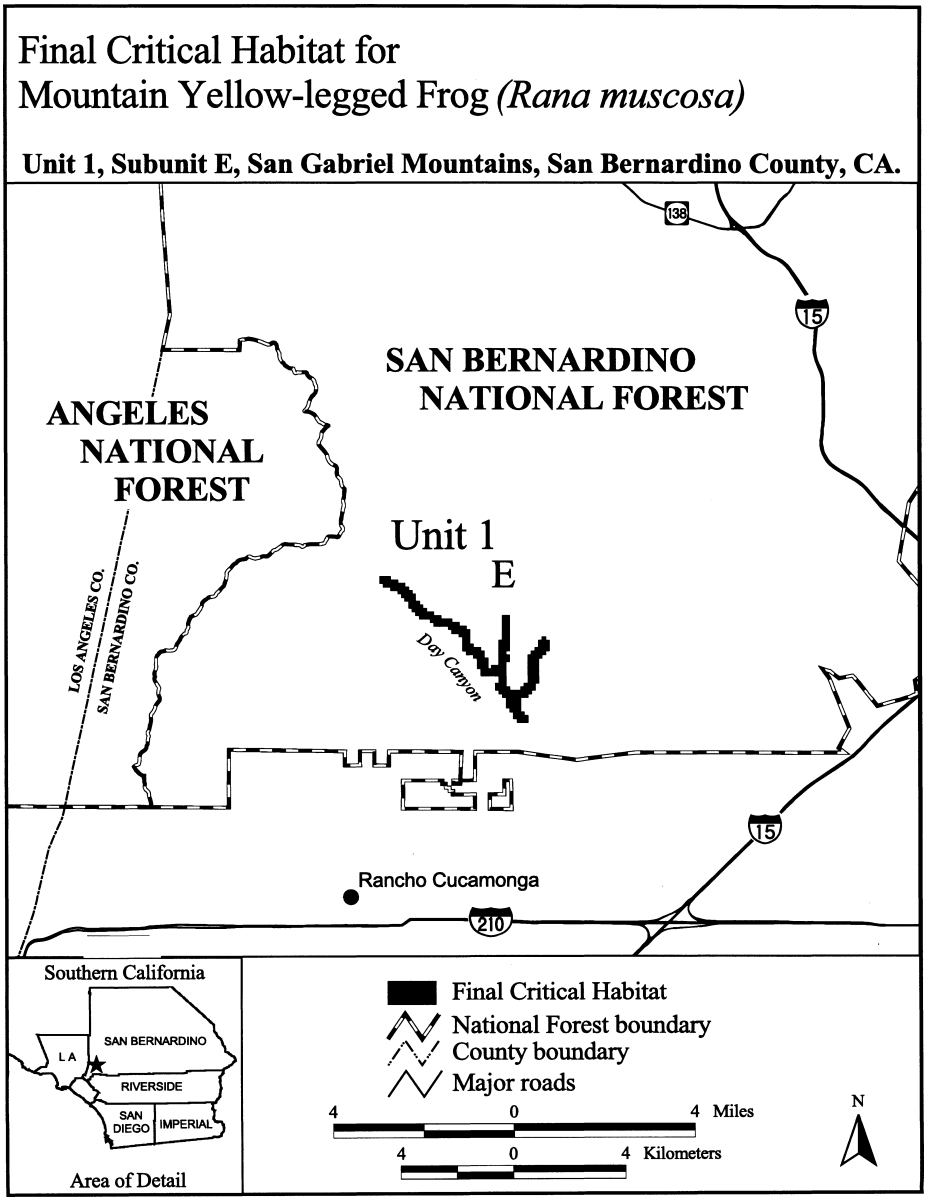


(vii) Subunit 1E: Day Canyon, San Bernardino National Forest, San Bernardino County, California.

(A) Land bounded by the following UTM NAD27 coordinates (E, N): 446400, 3786900; 446700, 3786900; 446700, 3786800; 446900, 3786800; 446900, 3786700; 447100, 3786700; 447100, 3786600; 447200, 3786600; 447200, 3786500; 447300, 3786500; 447300, 3786400; 447400, 3786400; 447400, 3786200; 447500, 3786200; 447500, 3786100; 447600, 3786100; 447600, 3786000; 447700, 3786000; 447700, 3785900; 447900, 3785900; 447900, 3785800; 448100, 3785800; 448100, 3785700; 448400, 3785700; 448400, 3785600; 448600, 3785600; 448600, 3785500; 448800, 3785500;

448800, 3785400; 448900, 3785400; 448900, 3785000; 449000, 3785000; 449000, 3784900; 449200, 3784900; 449200, 3784800; 449300, 3784800; 449300, 3784600; 449400, 3784600; 449400, 3784300; 449500, 3784300; 449500, 3784400; 449700, 3784400; 449700, 3785100; 449800, 3785100; 449800, 3785800; 450000, 3785800; 450000, 3784800; 449900, 3784800; 449900, 3784700; 450000, 3784700; 450000, 3784500; 449900, 3784500; 449900, 3783800; 450000, 3783800; 450000, 3783700; 450300, 3783700; 450300, 3783800; 450400, 3783800; 450400, 3783900; 450500, 3783900; 450500, 3784700; 450600, 3784700; 450600, 3784800; 450700, 3784800; 450700, 3784900; 450800, 3784900; 450800, 3785100; 450900, 3785100; 450900, 3785200; 451000, 3785200; 451000, 3785100; 451100, 3785100; 451100, 3784800; 451000, 3784800; 451000, 3784700; 450900, 3784700; 450900, 3784600; 450800, 3784600; 450800, 3783900; 450700, 3783900; 450700, 3783700; 450600, 3783700; 450600, 3783600; 450500, 3783600; 450500, 3783500; 450300, 3783500; 450300, 3783100; 450400, 3783100; 450400, 3783000; 450500, 3783000; 450500, 3782800; 450200, 3782800; 450200, 3782900; 450100, 3782900; 450100, 3783100; 450000, 3783100; 450000, 3783200; 449900, 3783200; 449900, 3783500; 449800, 3783500; 449800, 3783600; 449700, 3783600; 449700, 3783700; 449600, 3783700; 449600, 3783900; 449700, 3783900; 449700, 3784100; 449200, 3784100; 449200, 3784300; 449100, 3784300; 449100, 3784600; 449000, 3784600; 449000, 3784700; 448800, 3784700; 448800, 3784800; 448700, 3784800; 448700, 3785200; 448600, 3785200; 448600, 3785300; 448400, 3785300; 448400, 3785400; 448300, 3785400; 448300, 3785500; 447900, 3785500; 447900, 3785600; 447800, 3785600; 447800, 3785700; 447500, 3785700; 447500, 3785800; 447400, 3785800; 447400, 3785900; 447300, 3785900; 447300, 3786000; 447200, 3786000; 447200, 3786200; 447100, 3786200; 447100, 3786300; 447000, 3786300; 447000, 3786400; 446900, 3786400; 446900, 3786500; 446700, 3786500; 446700, 3786600; 446500, 3786600; 446500, 3786700; 446400, 3786700; returning to 446400, 3786900.

(B) Map of subunit 1E (Map 3) follows:



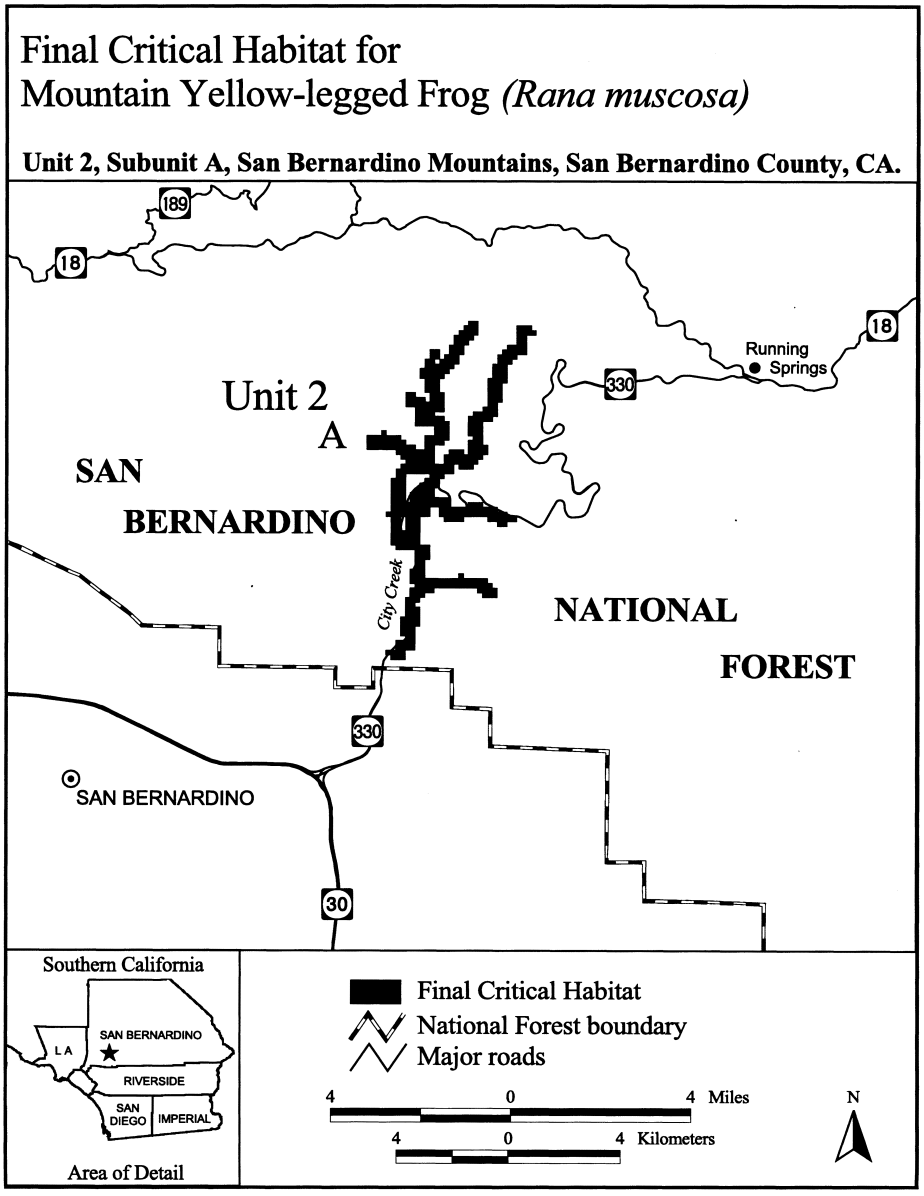
(6) Unit 2: San Bernardino Mountains, San Bernardino National Forest, San Bernardino County, California. From USGS 1:24,000 quadrangle maps Big Bear Lake, Catclaw Flat and Harrison Mountain, California.

(i) Subunit 2A: City Creek, East and West Forks, San Bernardino National Forest, San Bernardino County, California.

(A) Land bounded by the following UTM NAD27 coordinates (E, N): 483800, 3785100; 483900, 3785100; 483900, 3785200; 484000, 3785200; 484000, 3785400; 484100, 3785400; 484100, 3785600;

484200, 3785600; 484200, 3785700; 484300, 3785700; 484300, 3785800; 484400, 3785800; 484400, 3785900; 484600, 3785900; 484600, 3785600; 484500, 3785600; 484500, 3785500; 484400, 3785500; 484400, 3785400; 484300, 3785400; 484300, 3785200; 484200, 3785200; 484200, 3785000; 484100, 3785000; 484100, 3784900; 484000, 3784900; 484000, 3784800; 483900, 3784800; 483900, 3784700; 483800, 3784700; 483800, 3784400; 483900, 3784400; 483900, 3784000; 483700, 3784000; 483700, 3783900; 483900, 3783900; 483900, 3783800; 484000, 3783800; 484000, 3783400; 483900, 3783400; 483900, 3783300; 483700, 3783300; 483700, 3782900; 483900, 3782900; 483900, 3783100; 484000, 3783100; 484000, 3783200; 484300, 3783200; 484300, 3783100; 484400, 3783100; 484400, 3783400; 484500, 3783400; 484500, 3783500; 484400, 3783500; 484400, 3783900; 484500, 3783900; 484500, 3784000; 484700, 3784000; 484700, 3784100; 484800, 3784100; 484800, 3784700; 484900, 3784700; 484900, 3785000; 485000, 3785000; 485000, 3785200; 485100, 3785200; 485100, 3785300; 485200, 3785300; 485200, 3785400; 485400, 3785400; 485400, 3785800; 485700, 3785800; 485700, 3785700; 485800, 3785700; 485800, 3785600; 485600, 3785600; 485600, 3785200; 485400, 3785200; 485400, 3785100; 485300, 3785100; 485300, 3785000; 485200, 3785000; 485200, 3784600; 485100, 3784600; 485100, 3784200; 485000, 3784200; 485000, 3783900; 484900, 3783900; 484900, 3783800; 484700, 3783800; 484700, 3783300; 484800, 3783300; 484800, 3783100; 484700, 3783100; 484700, 3783000; 484600, 3783000; 484600, 3782900; 484500, 3782900; 484500, 3782800; 484200, 3782800; 484200, 3782900; 484100, 3782900; 484100, 3782700; 483900, 3782700; 483900, 3782600; 483800, 3782600; 483800, 3782400; 483700, 3782400; 483700, 3782200; 484000, 3782200; 484000, 3782000; 484400, 3782000; 484400, 3782100; 484700, 3782100; 484700, 3782000; 485000, 3782000; 485000, 3781900; 485200, 3781900; 485200, 3781800; 485400, 3781800; 485400, 3781700; 485200, 3781700; 485200, 3781600; 485000, 3781600; 485000, 3781700; 484800, 3781700; 484800, 3781800; 484300, 3781800; 484300, 3781700; 483900, 3781700; 483900, 3781800; 483800, 3781800; 483800, 3782000; 483600, 3782000; 483600, 3781800; 483400, 3781800; 483400, 3781200; 483600, 3781200; 483600, 3780900; 483500, 3780900; 483500, 3780500; 484200, 3780500; 484200, 3780600; 484300, 3780600; 484300, 3780500; 484800, 3780500; 484800, 3780400; 484900, 3780400; 484900, 3780300; 485000, 3780300; 485000, 3780100; 484700, 3780100; 484700, 3780200; 484600, 3780200; 484600, 3780300; 483700, 3780300; 483700, 3780200; 483500, 3780200; 483500, 3780100; 483400, 3780100; 483400, 3780000; 483300, 3780000; 483300, 3779900; 483400, 3779900; 483400, 3779500; 483300, 3779500; 483300, 3779000; 483100, 3779000; 483100, 3778800; 482800, 3778800; 482800, 3778900; 482700, 3778900; 482700, 3779000; 482900, 3779000; 482900, 3779200; 483100, 3779200; 483100, 3779300; 483000, 3779300; 483000, 3779700; 483100, 3779700; 483100, 3780100; 483200, 3780100; 483200, 3780300; 483300, 3780300; 483300, 3780400; 483200, 3780400; 483200, 3780700; 483300, 3780700; 483300, 3781100; 482900, 3781100; 482900, 3781200; 482800, 3781200; 482800, 3781800; 482700, 3781800; 482700, 3781900; 482800, 3781900; 482800, 3782600; 482900, 3782600; 482900, 3782800; 483000, 3782800; 483000, 3782900; 483100, 3782900; 483100, 3783000; 483000, 3783000; 483000, 3783100; 482900, 3783100; 482900, 3783200; 482300, 3783200; 482300, 3783500; 482600, 3783500; 482600, 3783600; 482700, 3783600; 482700, 3783500; 483000, 3783500; 483000, 3783400; 483100, 3783400; 483100, 3783300; 483300, 3783300; 483300, 3783200; 483500, 3783200; 483500, 3783500; 483700, 3783500; 483700, 3783700; 483300, 3783700; 483300, 3784100; 483100, 3784100; 483100, 3784400; 483300, 3784400; 483300, 3784300; 483500, 3784300; 483500, 3784200; 483600, 3784200; 483600, 3784400; 483500, 3784400; 483500, 3784700; 483400, 3784700; 483400, 3784900; 483500, 3784900; 483500, 3785100; 483600, 3785100; 483600, 3785300; 483800, 3785300; returning to 483800, 3785100; excluding land bounded by 483700, 3785100; 483800, 3785100; 483800, 3785000; 483700, 3785000; 483700, 3785100; land bounded by 483100, 3782700; 483600, 3782700; 483600, 3782600; 483500, 3782600; 483500, 3782500; 483400, 3782500; 483400, 3782400; 483300, 3782400; 483300, 3782300; 483200, 3782300; 483200, 3782100; 483100, 3782100; 483100, 3782700; and land bounded by 483000, 3781800; 483100, 3781800; 483100, 3781500; 483000, 3781500; 483000, 3781800.

(B) Map of subunit 2A (Map 4) follows:



(ii) Subunit 2B: Barton Creek, East Fork, San Bernardino National Forest, San Bernardino County, California.

(A) Land bounded by the following UTM NAD27 coordinates (E, N): 510000, 3781300; 510100, 3781300; 510100, 3781200; 510200, 3781200; 510200, 3781100; 510400, 3781100; 510400, 3780700; 510500, 3780700; 510500, 3780400; 510600, 3780400; 510600, 3780200; 510500, 3780200; 510500, 3780100; 510600, 3780100; 510600, 3779800; 510700, 3779800; 510700, 3779600; 510800, 3779600; 510800, 3779400; 510700, 3779400; 510700, 3779300; 510800, 3779300; 510800, 3779000; 510900, 3779000; 510900, 3778500; 510600, 3778500; 510600, 3779100; 510500, 3779100;

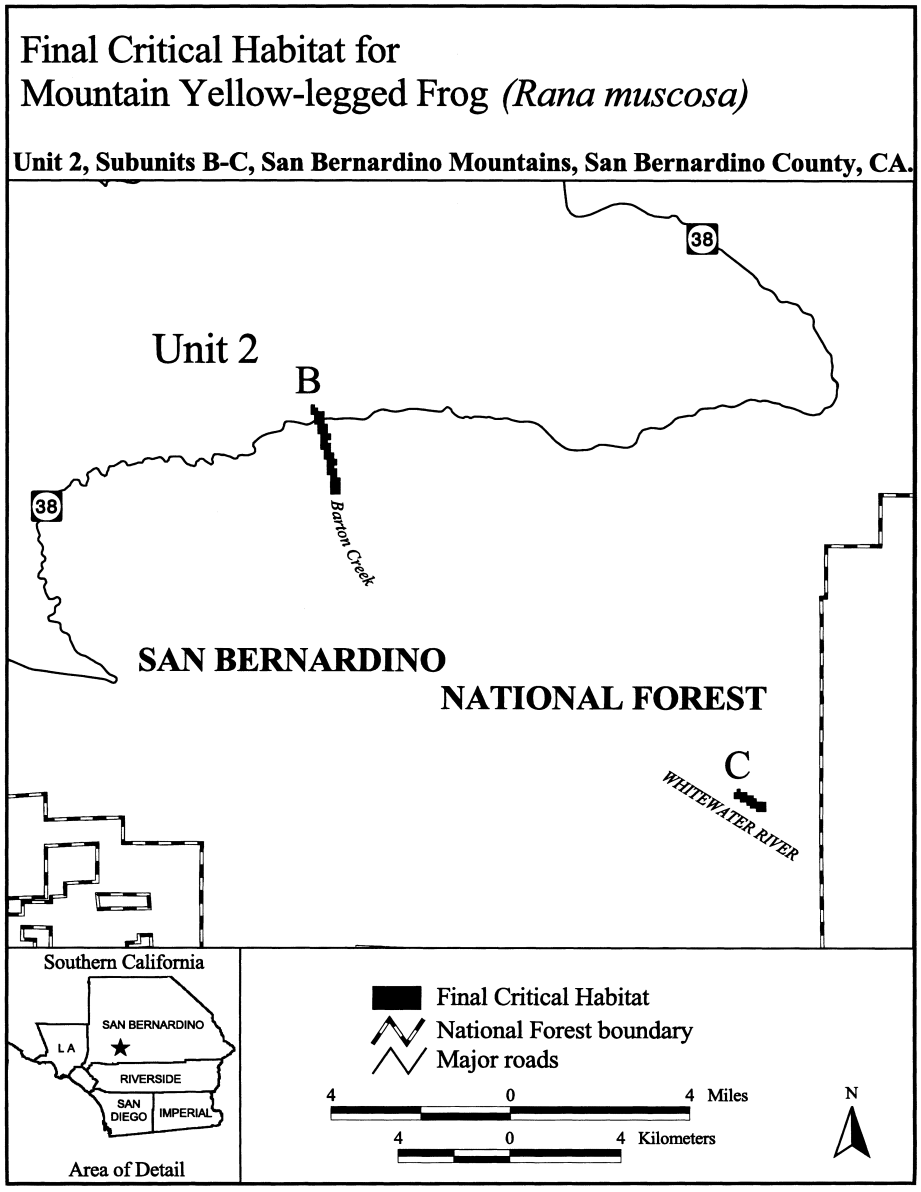
510500, 3779600; 510400, 3779600; 510400, 3779900; 510300, 3779900; 510300, 3780400; 510200, 3780400; 510200, 3780700; 510100, 3780700; 510100, 3781000; 510000, 3781000; returning to 510000, 3781300.

(B) Map depicting subunit 2B is located at paragraph (6)(iii)(B) of this entry.

(iii) Subunit 2C: Whitewater River, North Fork, San Bernardino National Forest, San Bernardino County, California.

(A) Land bounded by the following UTM NAD27 coordinates (E, N): 523300, 3769200; 523400, 3769200; 523400, 3769100; 523600, 3769100; 523600, 3769000; 523800, 3769000; 523800, 3768900; 523900, 3768900; 523900, 3768800; 524200, 3768800; 524200, 3768500; 523900, 3768500; 523900, 3768600; 523700, 3768600; 523700, 3768700; 523600, 3768700; 523600, 3768800; 523400, 3768800; 523400, 3768900; 523200, 3768900; 523200, 3769100; 523300, 3769100; returning to 523300, 3769200.

(B) Map of subunits 2B and 2C (Map 5) follows:



(7) Unit 3: San Jacinto Mountains, San Bernardino National Forest, Riverside County, California. From USGS 1:24,000 quadrangle maps Lake Fulmor, Palm Springs and San Jacinto Peak, California

(i) Subunit 3A: San Jacinto River, North Fork, San Bernardino National Forest, Riverside County, California.

(A) Land bounded by the following UTM NAD27 coordinates (E, N): 526400, 3743000; 526600, 3743000; 526600, 3742700; 526400, 3742700; 526400, 3742600; 526300, 3742600; 526300, 3742500;

526200, 3742500; 526200, 3742400; 526600, 3742400; 526600, 3742300; 526900, 3742300; 526900, 3742200; 527000, 3742200; 527000, 3742000; 526800, 3742000; 526800, 3742100; 526300, 3742100; 526300, 3742200; 526100, 3742200; 526100, 3742800; 526200, 3742800; 526200, 3742900; 526400, 3742900; returning to 526400, 3743000; land bounded by: 525000, 3742100; 525200, 3742100; 525200, 3742000; 525400, 3742000; 525400, 3741900; 525300, 3741900; 525300, 3741800; 525100, 3741800; 525100, 3741700; 525000, 3741700; 525000, 3741600; 524900, 3741600; 524900, 3741800; 524800, 3741800; 524800, 3741900; 524900, 3741900; 524900, 3742000; 525000, 3742000; returning to 525000, 3742100; land bounded by: 522600, 3741900; 522800, 3741900; 522800, 3741800; 522900, 3741800; 522900, 3741600; 522800, 3741600; 522800, 3741400; 522600, 3741400; 522600, 3741300; 522500, 3741300; 522500, 3741200; 522400, 3741200; 522400, 3741100; 522300, 3741100; 522300, 3740700; 522200, 3740700; 522200, 3740500; 522100, 3740500; 522100, 3740000; 522000, 3740000; 522000, 3739500; 521900, 3739500; 521900, 3739200; 521800, 3739200; 521800, 3739000; 522000, 3739000; 522000, 3739100; 522600, 3739100; 522600, 3739200; 523000, 3739200; 523000, 3739300; 523100, 3739300; 523100, 3739400; 523200, 3739400; 523200, 3739000; 522900, 3739000; 522900, 3738900; 522600, 3738900; 522600, 3738800; 521800, 3738800; 521800, 3738700; 521700, 3738700; 521700, 3738600; 521400, 3738600; 521400, 3738800; 521500, 3738800; 521500, 3738900; 521600, 3738900; 521600, 3739500; 521700, 3739500; 521700, 3739700; 521800, 3739700; 521800, 3740300; 521900, 3740300; 521900, 3740700; 522000, 3740700; 522000, 3740900; 522100, 3740900; 522100, 3741300; 522200, 3741300; 522200, 3741400; 522400, 3741400; 522400, 3741600; 522600, 3741600; returning to 522600, 3741900; land bounded by: 525800, 3741200; 525900, 3741200; 525900, 3740900; 525800, 3740900; 525800, 3740800; 525600, 3740800; 525600, 3740700; 525500, 3740700; 525500, 3740600; 525400, 3740600; 525400, 3740400; 525300, 3740400; 525300, 3740300; 525200, 3740300; 525200, 3740200; 525100, 3740200; 525100, 3740100; 525000, 3740100; 525000, 3740000; 525600, 3740000; 525600, 3740100; 525800, 3740100; 525800, 3740000; 525900, 3740000; 525900, 3739700; 525800, 3739700; 525800, 3739800; 525500, 3739800; 525500, 3739700; 525700, 3739700; 525700, 3739600; 525800, 3739600; 525800, 3739500; 525900, 3739500; 525900, 3739400; 526000, 3739400; 526000, 3739000; 525900, 3739000; 525900, 3739100; 525800, 3739100; 525800, 3739200; 525700, 3739200; 525700, 3739300; 525600, 3739300; 525600, 3739400; 525100, 3739400; 525100, 3739500; 524800, 3739500; 524800, 3739600; 524600, 3739600; 524600, 3739500; 524500, 3739500; 524500, 3739400; 524200, 3739400; 524200, 3739300; 524100, 3739300; 524100, 3739600; 524200, 3739600; 524200, 3739700; 524400, 3739700; 524400, 3739800; 524500, 3739800; 524500, 3740000; 524600, 3740000; 524600, 3740100; 524700, 3740100; 524700, 3740200; 524800, 3740200; 524800, 3740300; 524900, 3740300; 524900, 3740400; 525000, 3740400; 525000, 3740500; 525100, 3740500; 525100, 3740600; 525200, 3740600; 525200, 3740700; 525300, 3740700; 525300, 3740800; 525400, 3740800; 525400, 3740900; 525500, 3740900; 525500, 3741000; 525600, 3741000; 525600, 3741100; 525800, 3741100; returning to 525800, 3741200; and land bounded by 523900, 3741000; 524200, 3741000; 524200, 3740800; 524100, 3740800; 524100, 3740700; 524000, 3740700; 524000, 3740600; 523900, 3740600; 523900, 3740500; 523800, 3740500; 523800, 3740400; 523600, 3740400; 523600, 3740300; 523500, 3740300; 523500, 3740100; 523400, 3740100; 523400, 3739500; 523200, 3739500; 523200, 3739600; 523100, 3739600; 523100, 3740000; 523200, 3740000; 523200, 3740300; 523300, 3740300; 523300, 3740500; 523400, 3740500; 523400, 3740600; 523600, 3740600; 523600, 3740700; 523800, 3740700; 523800, 3740900; 523900, 3740900; returning to 523900, 3741000.

(B) Map depicting subunit 3A is located at paragraph (7)(iv)(B) of this entry.

(ii) Subunit 3B: Indian Creek at Hall Canyon, San Bernardino National Forest, Riverside County, California.

(A) Land bounded by the following UTM NAD27 coordinates (E, N): 521600, 3742800; 521800, 3742800; 521800, 3742500; 521700, 3742500; 521700, 3741700; 521600, 3741700; 521600, 3741500; 521500, 3741500; 521500, 3741400; 521400, 3741400; 521400, 3741200; 521300, 3741200; 521300, 3741100; 520900, 3741100; 520900, 3741200; 521000, 3741200; 521000, 3741300; 521100, 3741300; 521100, 3741400; 521200, 3741400; 521200, 3741600; 521300, 3741600; 521300, 3741700; 521400, 3741700; 521400, 3742300; 521500, 3742300; 521500, 3742700; 521600, 3742700; returning to 521600, 3742800.

(B) Map depicting subunit 3B is located at paragraph (7)(iv)(B) of this entry.

(iii) Subunit 3C: Tahquitz Creek, San Bernardino National Forest, Riverside County, California.

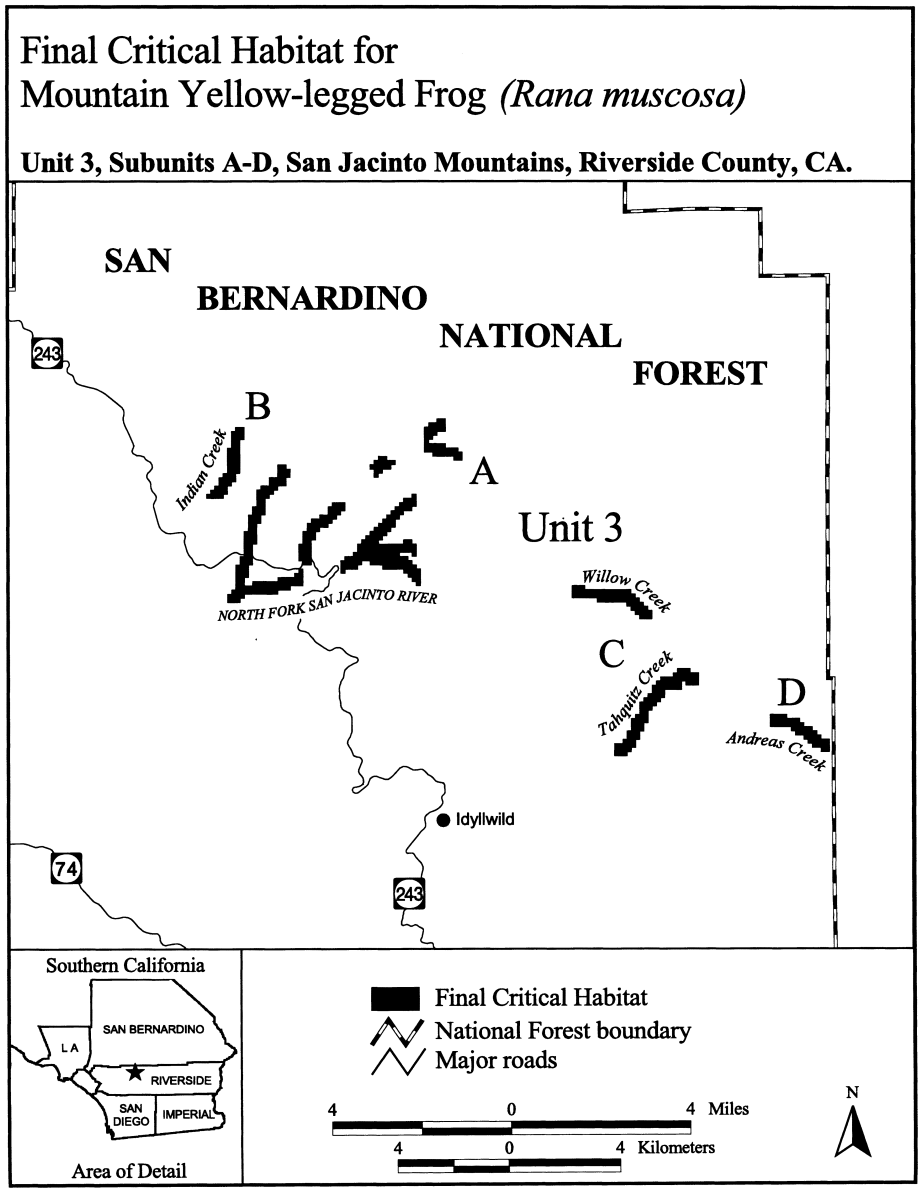
(A) Land bounded by the following UTM NAD27 coordinates (E, N): 529600, 3739000; 529900, 3739000; 529900, 3738900; 531000, 3738900; 531000, 3738800; 531100, 3738800; 531100, 3738700; 531200, 3738700; 531200, 3738600; 531300, 3738600; 531300, 3738500; 531400, 3738500; 531400, 3738400; 531500, 3738400; 531500, 3738200; 531200, 3738200; 531200, 3738300; 531100, 3738300; 531100, 3738400; 531000, 3738400; 531000, 3738500; 530900, 3738500; 530900, 3738600; 530200, 3738600; 530200, 3738700; 529600, 3738700; returning to 529600, 3739000; and land bounded by 532100, 3737000; 532400, 3737000; 532400, 3736900; 532600, 3736900; 532600, 3736600; 532300, 3736600; 532300, 3736700; 532200, 3736700; 532200, 3736500; 531800, 3736500; 531800, 3736300; 531700, 3736300; 531700, 3736200; 531600, 3736200; 531600, 3736100; 531500, 3736100; 531500, 3736000; 531400, 3736000; 531400, 3735700; 531300, 3735700; 531300, 3735500; 531200, 3735500; 531200, 3735300; 531100, 3735300; 531100, 3735100; 531000, 3735100; 531000, 3735000; 530900, 3735000; 530900, 3734900; 530600, 3734900; 530600, 3735200; 530800, 3735200; 530800, 3735300; 530900, 3735300; 530900, 3735500; 531000, 3735500; 531000, 3735800; 531100, 3735800; 531100, 3735900; 531200, 3735900; 531200, 3736200; 531300, 3736200; 531300, 3736300; 531400, 3736300; 531400, 3736400; 531500, 3736400; 531500, 3736600; 531600, 3736600; 531600, 3736700; 531700, 3736700; 531700, 3736800; 532000, 3736800; 532000, 3736900; 532100, 3736900; returning to 532100, 3737000.

(B) Map depicting subunit 3C is located at paragraph (7)(iv)(B) of this entry.

(iv) Subunit 3D: Andreas Creek, San Bernardino National Forest, Riverside County, California.

(A) Land bounded by the following UTM NAD27 coordinates (E, N): 534300, 3735900; 534700, 3735900; 534700, 3735800; 535000, 3735800; 535000, 3735700; 535100, 3735700; 535100, 3735600; 535300, 3735600; 535300, 3735500; 535400, 3735500; 535400, 3735400; 535500, 3735400; 535500, 3735300; 535700, 3735300; 535700, 3735000; 535500, 3735000; 535500, 3735100; 535300, 3735100; 535300, 3735200; 535200, 3735200; 535200, 3735300; 535100, 3735300; 535100, 3735400; 534900, 3735400; 534900, 3735500; 534800, 3735500; 534800, 3735600; 534300, 3735600; returning to 534300, 3735900.

(B) Map of Unit 3, with Subunits 3A, 3B, 3C, and 3D (Map 6), follows:



GUAJÓN (*Eleutherodactylus cooki*)

(1) Critical habitat units are depicted for Humacao, Las Piedras, Maunabo, Patillas, and Yabucoa, Puerto Rico, on the maps below.

(2) The primary constituent elements of critical habitat for the guajón are the habitat components that provide:

(i) Subtropical forest (which may include trees such as *Cecropia schreberiana*, *Dendropanax arboreus*, *Guarea guidonia*, *Piper aduncum*, *Spathodea campanulata*, *Syzygium*

jambos, and *Thespesia populnea*) at elevations from 118 to 1,183 ft (36 to 361 m) above sea level;

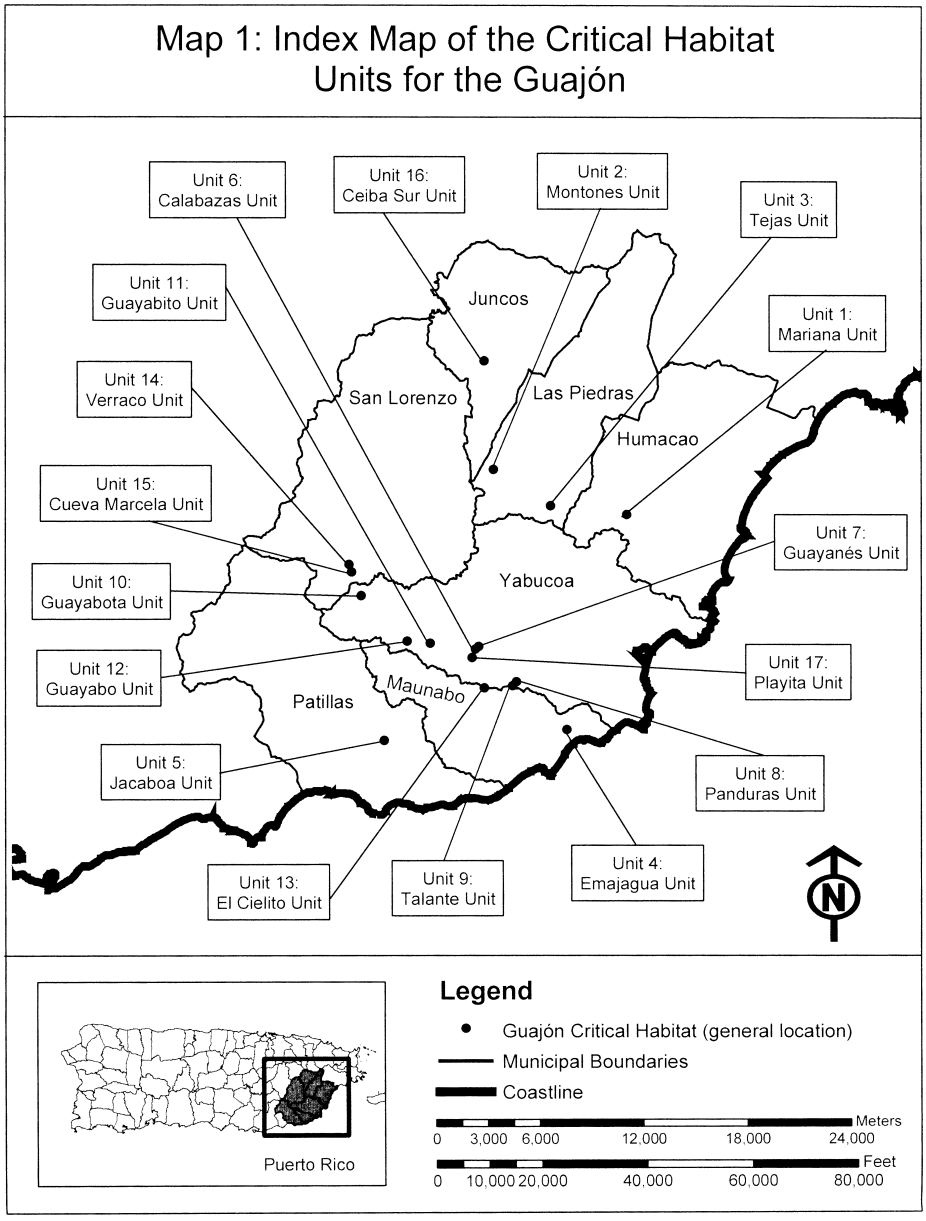
(ii) Plutonic, granitic, or sedimentary rocks/boulders that form caves, crevices, and grottoes (interstitial spaces) in a streambed, and that are in proximity, or connected, to a permanent, ephemeral, or subterranean clear-water stream or water source. The interstitial spaces between or underneath rocks provide microenvironments characterized by generally higher humidity and cooler temperatures than outside the rock formations; and

(iii) Vegetation-covered rocks (the vegetation typically includes moss, ferns, and hepatics such as *Thuidium urceolatum*, *Taxilejeunea sulphurea*, and *Huokeria acutifolia*) extending laterally to a maximum of 99 feet (30 meters) on each bank of the stream. These rocks provide cover and foraging sites and help conserve humidity.

(3) Critical habitat does not include manmade structures existing on the effective date of this rule and not containing one or more of the primary constituent elements, such as buildings, driveways, aqueducts, airports, and roads, and the land on which such structures are located.

(4) *Critical habitat maps.* Data layers defining map units were created by delineating habitats that contain at least one or more of the PCEs defined in paragraph (2) of this entry, over United States Geological Survey topographic maps (UTM 19, NAD 83). USGS 1:20,000 quadrangles used in the base map were: Humacao, Punta Guayanés, Juncos, Yabucoa, Punta Tuna, and Patillas.

(5) Note: Index map (Map 1) follows:



(6) Unit 1: Mariana, Humacao, Puerto Rico.

(i) *General Description:* Unit 1 consists of approximately 23.6 acres (ac) (9.6 hectares (ha)) located south of Road PR–909, west of Road PR–3, and north of Quebrada Cataño within Mariana Ward, Humacao.

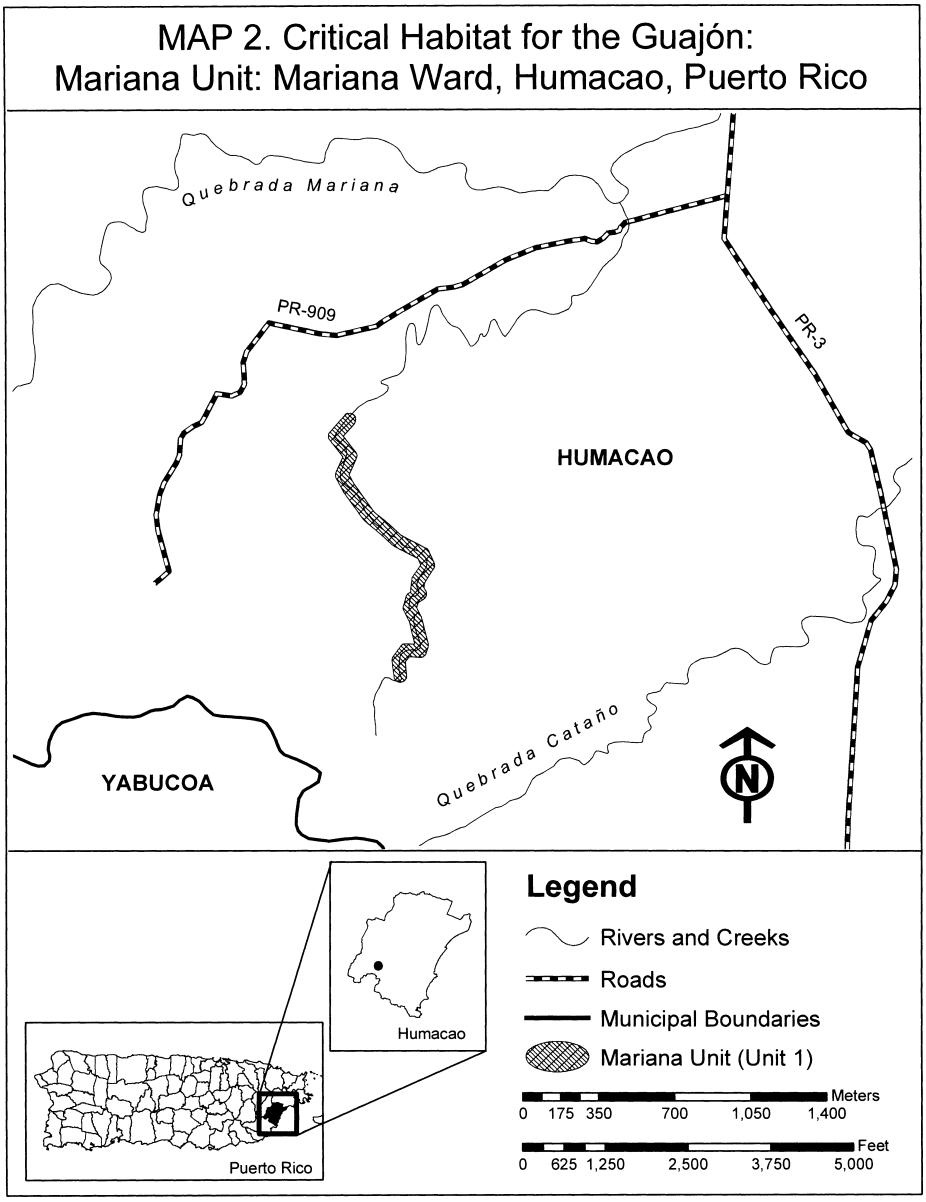
(ii) *Coordinates:* From Humacao and Punta Guayanés USGS 1:20,000 quadrangle maps. Unit 1 bounded by the following UTM 19 NAD 83 coordinates (E, N):

833916.64, 2007339.77; 833916.67, 2007341.73; 833916.83, 2007343.69; 833917.12, 2007345.64;

833917.53, 2007347.56; 833918.07, 2007349.45; 834374.98, 2006594.98; 834373.86, 2006593.36;
833918.73, 2007351.30; 833919.51, 2007353.10; 834372.64, 2006591.82; 834371.32, 2006590.37;
833920.41, 2007354.85; 833921.42, 2007356.54; 834369.91, 2006589.00; 834368.41, 2006587.73;
833922.53, 2007358.15; 833923.65, 2007359.57; 834366.83, 2006586.56; 834365.82, 2006585.88;
833989.83, 2007438.54; 833989.93, 2007438.66; 834340.63, 2006569.89; 834334.43, 2006549.03;
833991.25, 2007440.12; 833992.66, 2007441.48; 834356.52, 2006506.35; 834356.55, 2006506.29;
833994.16, 2007442.76; 833995.73, 2007443.93; 834357.39, 2006504.51; 834358.12, 2006502.69;
833997.38, 2007444.99; 833999.10, 2007445.95; 834358.72, 2006500.82; 834358.92, 2006500.08;
834000.88, 2007446.79; 834002.70, 2007447.51; 834390.20, 2006379.42; 834390.48, 2006378.25;
834004.57, 2007448.12; 834006.48, 2007448.60; 834390.83, 2006376.32; 834391.06, 2006374.36;
834008.41, 2007448.95; 834010.36, 2007449.18; 834391.16, 2006372.40; 834391.13, 2006370.44;
834012.33, 2007449.27; 834014.29, 2007449.24; 834390.97, 2006368.48; 834390.68, 2006366.53;
834016.25, 2007449.08; 834018.19, 2007448.80; 834390.27, 2006364.61; 834390.01, 2006363.66;
834020.12, 2007448.38; 834022.01, 2007447.85; 834382.32, 2006336.64; 834382.03, 2006335.70;
834023.86, 2007447.19; 834025.66, 2007446.41; 834381.37, 2006333.85; 834380.59, 2006332.05;
834027.41, 2007445.51; 834029.10, 2007444.50; 834379.70, 2006330.30; 834378.69, 2006328.61;
834030.71, 2007443.38; 834032.25, 2007442.16; 834377.57, 2006327.00; 834376.35, 2006325.46;
834033.71, 2007440.84; 834035.08, 2007439.43; 834375.03, 2006324.00; 834373.62, 2006322.63;
834036.35, 2007437.94; 834037.52, 2007436.36; 834372.12, 2006321.36; 834370.54, 2006320.19;
834038.59, 2007434.71; 834039.54, 2007432.99; 834368.89, 2006319.12; 834367.18, 2006318.17;
834040.38, 2007431.21; 834041.11, 2007429.39; 834365.40, 2006317.32; 834363.57, 2006316.60;
834041.71, 2007427.52; 834042.19, 2007425.61; 834361.70, 2006316.00; 834359.80, 2006315.52;
834042.54, 2007423.68; 834042.77, 2007421.73; 834357.87, 2006315.17; 834357.87, 2006315.17;
834042.87, 2007419.76; 834042.84, 2007417.80; 834355.91, 2006314.94; 834353.95, 2006314.84;
834042.68, 2007415.84; 834042.39, 2007413.90; 834351.99, 2006314.87; 834351.36, 2006314.91;
834041.98, 2007411.98; 834041.44, 2007410.09; 834303.63, 2006318.22; 834285.72, 2006292.67;
834040.78, 2007408.23; 834040.00, 2007406.43; 834293.36, 2006231.63; 834293.49, 2006230.38;
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834379.72, 2006609.78; 834379.56, 2006607.83; 834276.82, 2006376.89; 834278.65, 2006377.61;
834379.27, 2006605.88; 834378.86, 2006603.96; 834280.52, 2006378.22; 834282.42, 2006378.70;
834378.32, 2006602.07; 834377.66, 2006600.22; 834284.36, 2006379.05; 834286.31, 2006379.28;
834376.88, 2006598.42; 834375.98, 2006596.67; 834288.27, 2006379.37; 834290.24, 2006379.34;

834290.86, 2006379.31; 834328.87, 2006376.67; 834337.78, 2006774.95; 834227.80, 2006830.50;
834301.63, 2006481.74; 834275.52, 2006532.18; 834226.78, 2006831.04; 834225.09, 2006832.05;
834275.49, 2006532.24; 834274.65, 2006534.02; 834223.47, 2006833.17; 834221.93, 2006834.39;
834273.93, 2006535.85; 834273.33, 2006537.72; 834220.97, 2006835.25; 834167.24, 2006884.88;
834272.85, 2006539.62; 834272.49, 2006541.56; 834091.89, 2006945.04; 834091.21, 2006945.59;
834272.27, 2006543.51; 834272.17, 2006545.47; 834089.76, 2006946.91; 834088.39, 2006948.32;
834272.20, 2006547.43; 834272.36, 2006549.39; 834087.11, 2006949.82; 834086.43, 2006950.72;
834272.65, 2006551.34; 834273.06, 2006553.26; 833990.42, 2007081.24; 833989.94, 2007081.92;
834273.41, 2006554.54; 834286.26, 2006597.78; 833988.87, 2007083.58; 833988.19, 2007084.77;
834286.45, 2006598.39; 834287.11, 2006600.24; 833955.04, 2007146.21; 833954.76, 2007146.73;
834287.89, 2006602.04; 834288.79, 2006603.79; 833953.92, 2007148.50; 833953.20, 2007150.33;
834289.80, 2006605.47; 834290.91, 2006607.09; 833952.60, 2007152.20; 833952.12, 2007154.10;
834292.13, 2006608.63; 834293.45, 2006610.09; 833951.76, 2007156.04; 833951.54, 2007157.99;
834294.86, 2006611.46; 834296.36, 2006612.73; 833951.44, 2007159.95; 833951.47, 2007161.92;
834297.94, 2006613.90; 834298.95, 2006614.58; 833951.63, 2007163.88; 833951.92, 2007165.82;
834308.43, 2006620.59; 834308.43, 2006620.60; 833952.33, 2007167.74; 833952.87, 2007169.63;
834307.71, 2006622.43; 834307.10, 2006624.30; 833953.53, 2007171.48; 833953.96, 2007172.51;
834306.62, 2006626.21; 834306.27, 2006628.14; 833985.71, 2007245.04; 833923.41, 2007321.28;
834306.04, 2006630.09; 834305.95, 2006632.06; 833923.16, 2007321.60; 833921.99, 2007323.18;
834305.98, 2006634.02; 834306.14, 2006635.98; 833920.92, 2007324.83; 833919.97, 2007326.54;
834306.15, 2006636.12; 834310.97, 2006676.56; 833919.12, 2007328.32; 833918.40, 2007330.15;
834311.24, 2006678.36; 834311.66, 2006680.28; 833917.80, 2007332.02; 833917.32, 2007333.92;
834312.19, 2006682.17; 834312.85, 2006684.02; 833916.97, 2007335.85; 833916.74, 2007337.81;
834313.63, 2006685.82; 834314.53, 2006687.57; 833916.64, 2007339.77.
834315.43, 2006689.09; 834351.39, 2006745.79;

(iii) Note: Map of Unit 1 (Map 2) follows:



(7) Unit 2: Montones, Las Piedras, Puerto Rico.

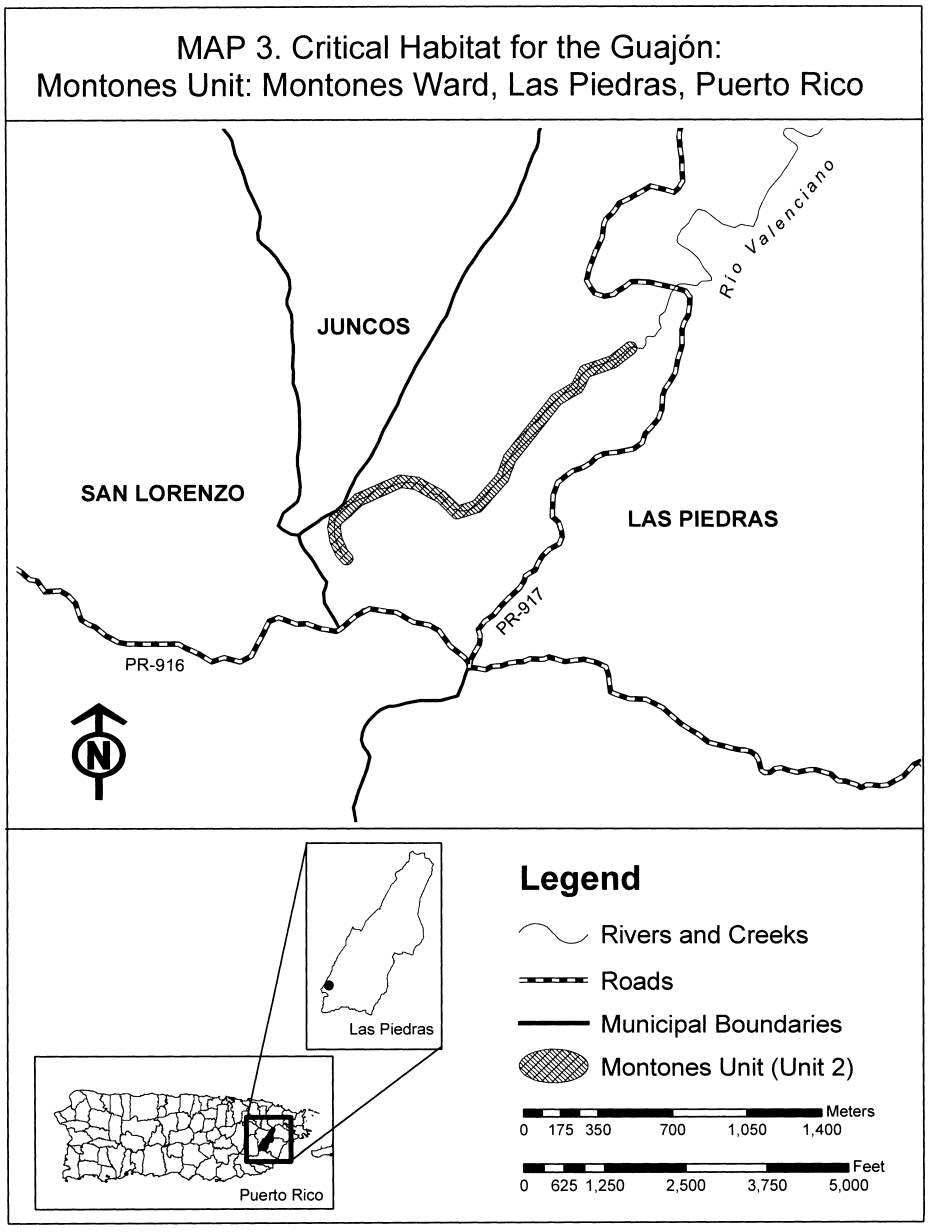
(i) *General Description:* Unit 2 consists of approximately 31.1 ac (12.6 ha) along the headwaters of the Valenciano River at PR 917 Km 9.7, Montones Ward, Las Piedras.

(ii) *Coordinates:* From Juncos USGS 1:20,000 quadrangle map. Unit 2 bounded by the following UTM 19 NAD 83 coordinates (E, N):

825191.05, 2008735.38; 825191.08, 2008737.35; 825191.17, 2008738.56; 825197.07, 2008804.62; 825197.15, 2008805.37; 825197.43, 2008807.31; 825197.85, 2008809.23; 825198.39, 2008811.12;

825199.05, 2008812.97; 825199.83, 2008814.78; 825200.73, 2008816.52; 825201.74, 2008818.21; 825202.09, 2008818.75; 825237.76, 2008871.58; 825238.52, 2008872.65; 825239.74, 2008874.19; 825241.06, 2008875.65; 825242.47, 2008877.02; 825243.97, 2008878.29; 825245.55, 2008879.46; 825247.20, 2008880.53; 825248.91, 2008881.48; 825249.96, 2008881.99; 825516.70, 2009006.30; 825517.43, 2009006.63; 825519.26, 2009007.35; 825521.13, 2009007.95; 825523.03, 2009008.43; 825524.97, 2009008.78; 825526.92, 2009009.01; 825528.88, 2009009.11; 825530.85, 2009009.08; 825532.58, 2009008.94; 825607.77, 2009000.89; 825608.00, 2009000.86; 825609.94, 2009000.58; 825611.86, 2009000.16; 825613.75, 2008999.62; 825615.60, 2008998.96; 825617.41, 2008998.18; 825619.15, 2008997.28; 825619.44, 2008997.12; 825657.84, 2008975.25; 825735.16, 2008935.69; 825736.06, 2008935.21; 825737.74, 2008934.20; 825739.36, 2008933.08; 825740.90, 2008931.86; 825742.35, 2008930.54; 825742.41, 2008930.48; 825805.54, 2008869.09; 825875.41, 2008891.79; 825982.60, 2009016.88; 826011.34, 2009100.61; 826011.81, 2009101.89; 826012.60, 2009103.69; 826013.49, 2009105.44; 826014.50, 2009107.13; 826015.62, 2009108.74; 826015.93, 2009109.15; 826234.92, 2009394.34; 826235.83, 2009395.46; 826237.15, 2009396.92; 826238.56, 2009398.29; 826240.06, 2009399.56; 826241.64, 2009400.73; 826243.28, 2009401.79; 826332.44, 2009455.31; 826363.91, 2009522.58; 826363.96, 2009522.68; 826364.85, 2009524.43; 826365.86, 2009526.12; 826366.98, 2009527.74; 826368.20, 2009529.27; 826369.52, 2009530.73; 826370.93, 2009532.10; 826372.43, 2009533.37; 826374.01, 2009534.54; 826375.66, 2009535.61; 826377.38, 2009536.56; 826379.15, 2009537.40; 826380.92, 2009538.11; 826507.54, 2009583.75; 826584.65, 2009645.47; 826584.74, 2009645.54; 826586.31, 2009646.72; 826587.96, 2009647.78; 826589.68, 2009648.74; 826591.46, 2009649.58; 826593.28, 2009650.30; 826595.15, 2009650.90; 826597.06, 2009651.38; 826598.99, 2009651.73; 826600.95, 2009651.96; 826602.91, 2009652.05; 826604.87, 2009652.02; 826606.83, 2009651.86; 826608.78, 2009651.58; 826610.70, 2009651.16; 826612.59, 2009650.62; 826614.44, 2009649.96; 826616.24, 2009649.18; 826617.99, 2009648.28; 826619.67, 2009647.27; 826621.29, 2009646.16; 826622.83, 2009644.94; 826624.29, 2009643.62; 826625.65, 2009642.21; 826626.92, 2009640.71; 826628.10, 2009639.13; 826629.16, 2009637.48; 826630.12, 2009635.76; 826630.96, 2009633.99; 826631.68, 2009632.16; 826632.28, 2009630.29; 826632.76, 2009628.38; 826633.11, 2009626.45; 826633.34, 2009624.50; 826633.43, 2009622.53; 826633.40, 2009620.57; 826633.24, 2009618.61; 826632.96, 2009616.67; 826632.54, 2009614.75; 826632.00, 2009612.86; 826631.34, 2009611.01; 826630.56, 2009609.20; 826629.66, 2009607.46; 826628.65, 2009605.77; 826627.54, 2009604.15; 826626.32, 2009602.61; 826625.00, 2009601.16; 826623.59, 2009599.79; 826622.18, 2009598.59; 826541.17, 2009533.75; 826541.08, 2009533.68; 826539.51, 2009532.51; 826537.86, 2009531.45; 826536.14, 2009530.49; 826534.36, 2009529.65; 826532.59, 2009528.95; 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825784.77, 2008807.79; 825783.02, 2008808.69; 825781.33, 2008809.69; 825779.72, 2008810.81; 825778.18, 2008812.03; 825776.72, 2008813.35; 825776.66, 2008813.41; 825703.78, 2008884.28; 825629.89, 2008922.09; 825628.99, 2008922.57; 825628.70, 2008922.73; 825595.16, 2008941.84; 825534.49, 2008948.34; 825282.87, 2008831.08; 825256.20, 2008791.56; 825251.43, 2008738.26; 825259.11, 2008707.57; 825284.21, 2008655.11; 825304.76, 2008631.14; 825305.48, 2008630.28; 825306.65, 2008628.70; 825307.71, 2008627.05; 825308.67, 2008625.33; 825309.51, 2008623.55; 825310.23, 2008621.73; 825310.83, 2008619.86; 825311.31, 2008617.95; 825311.66, 2008616.02; 825311.89, 2008614.06; 825311.99, 2008612.10; 825311.96, 2008610.14; 825311.80, 2008608.18; 825311.51, 2008606.24; 825311.09, 2008604.31; 825310.55, 2008602.43; 825309.89, 2008600.57; 825309.11, 2008598.77; 825308.22, 2008597.02; 825307.21, 2008595.34; 825306.09, 2008593.72; 825304.87, 2008592.18; 825303.55, 2008590.73; 825302.14, 2008589.36; 825300.64, 2008588.09; 825299.06, 2008586.92; 825297.41, 2008585.85; 825295.69, 2008584.90; 825293.92, 2008584.05; 825292.09, 2008583.33; 825290.22, 2008582.73; 825288.31, 2008582.25; 825286.38, 2008581.90; 825284.43, 2008581.67; 825282.47, 2008581.58; 825280.50, 2008581.61; 825278.54, 2008581.77; 825276.60, 2008582.06; 825274.68, 2008582.47; 825272.79, 2008583.01; 825270.94, 2008583.67; 825269.14, 2008584.45; 825267.39, 2008585.35; 825265.70, 2008586.36; 825264.09, 2008587.47; 825262.55, 2008588.70; 825261.09, 2008590.01; 825259.72, 2008591.43; 825259.17, 2008592.06; 825236.04, 2008619.04; 825235.32, 2008619.90; 825234.15, 2008621.48; 825233.09, 2008623.13; 825232.13, 2008624.85; 825231.75, 2008625.62; 825203.63, 2008684.38; 825203.17, 2008685.39; 825202.45, 2008687.22; 825201.84, 2008689.09; 825201.58, 2008690.06; 825191.94, 2008728.60; 825191.73, 2008729.54; 825191.37, 2008731.47; 825191.15, 2008733.42; 825191.05, 2008735.38.

(iii) Note: Map of Unit 2 (Map 3) follows:



(8) Unit 3: Tejas, Las Piedras, Puerto Rico.

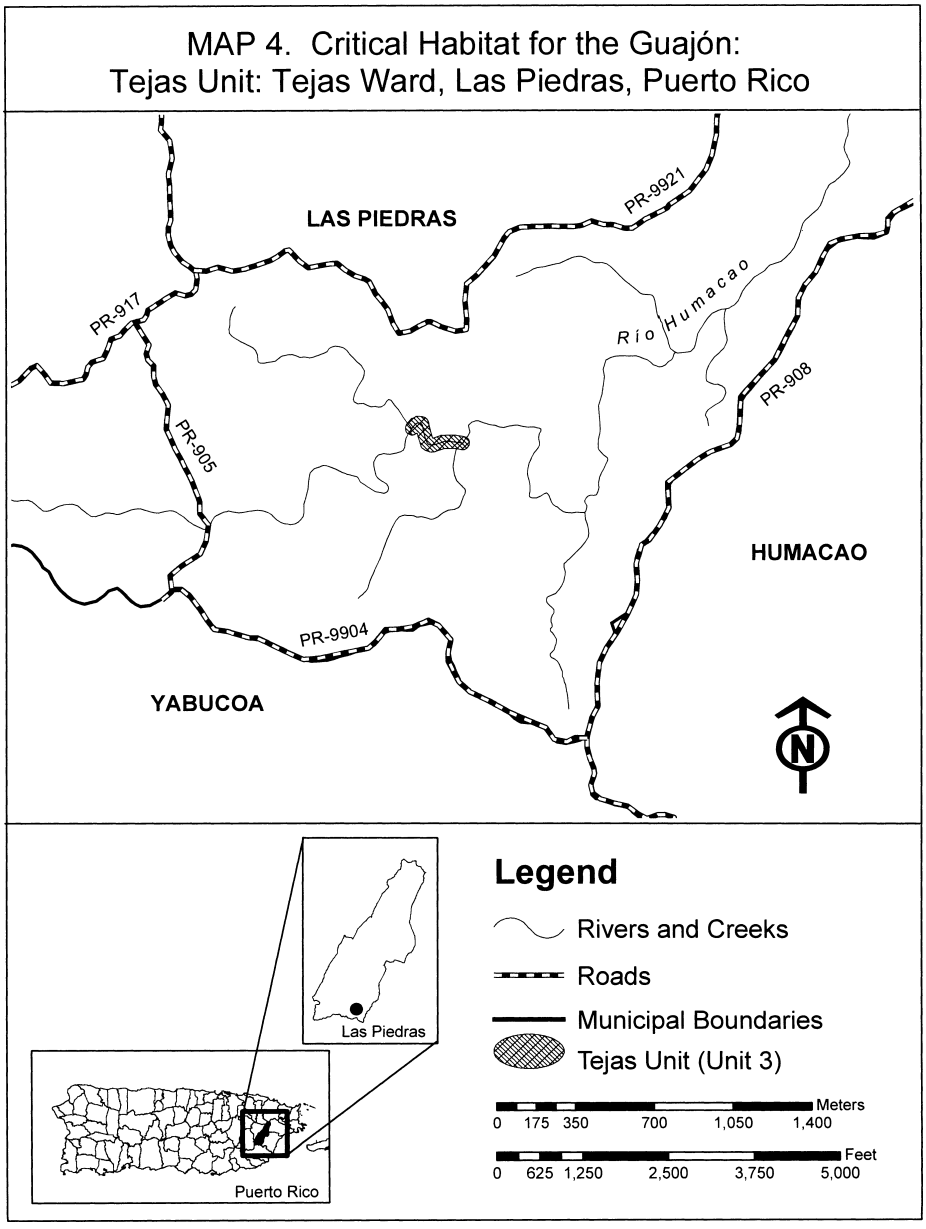
(i) *General Description:* Unit 3 consists of approximately 5.2 ac (2.1 ha) between Road PR–905 to the east, Road PR–908 to the west, Road PR–9921 to the north, and Road PR–9904 to the south within Tejas Ward, Las Piedras.

(ii) *Coordinates:* From Yabucoa, Humacao, Juncos, and Punta Guayanés USGS 1:20,000 quadrangle maps. Unit 3 bounded by the following UTM 19 NAD 83 coordinates (E, N):

829623.13, 2007423.98; 829623.16, 2007425.95; 829623.32, 2007427.91; 829623.60, 2007429.85;

829624.02, 2007431.77; 829624.56, 2007433.66; 829902.99, 2007345.28; 829901.87, 2007343.67;
829625.22, 2007435.51; 829626.00, 2007437.32; 829900.65, 2007342.13; 829899.33, 2007340.67;
829626.90, 2007439.06; 829627.90, 2007440.75; 829897.92, 2007339.30; 829896.42, 2007338.03;
829629.02, 2007442.37; 829629.38, 2007442.84; 829894.84, 2007336.86; 829893.19, 2007335.79;
829643.74, 2007461.45; 829644.61, 2007462.52; 829891.47, 2007334.84; 829889.70, 2007334.00;
829645.93, 2007463.98; 829647.34, 2007465.35; 829887.87, 2007333.27; 829886.00, 2007332.67;
829648.84, 2007466.62; 829650.41, 2007467.79; 829884.09, 2007332.19; 829882.16, 2007331.84;
829652.06, 2007468.86; 829653.78, 2007469.81; 829880.21, 2007331.61; 829878.25, 2007331.52;
829654.23, 2007470.04; 829665.53, 2007475.61; 829876.28, 2007331.55; 829874.32, 2007331.71;
829666.85, 2007476.23; 829668.68, 2007476.95; 829873.62, 2007331.80; 829843.56, 2007335.95;
829670.55, 2007477.55; 829672.46, 2007478.03; 829796.50, 2007336.24; 829750.67, 2007320.42;
829674.39, 2007478.39; 829676.34, 2007478.61; 829749.14, 2007319.93; 829747.23, 2007319.45;
829678.31, 2007478.71; 829680.27, 2007478.68; 829745.30, 2007319.10; 829743.34, 2007318.87;
829682.23, 2007478.52; 829682.50, 2007478.49; 829741.38, 2007318.78; 829739.42, 2007318.81;
829698.24, 2007476.54; 829699.91, 2007476.28; 829737.46, 2007318.97; 829735.51, 2007319.25;
829701.83, 2007475.87; 829703.72, 2007475.33; 829733.59, 2007319.67; 829731.70, 2007320.21;
829705.57, 2007474.67; 829707.37, 2007473.89; 829729.98, 2007320.82; 829709.83, 2007328.66;
829709.12, 2007472.99; 829710.81, 2007471.98; 829709.70, 2007328.71; 829707.90, 2007329.49;
829712.42, 2007470.87; 829713.96, 2007469.65; 829706.15, 2007330.39; 829704.46, 2007331.40;
829715.42, 2007468.33; 829716.79, 2007466.92; 829702.85, 2007332.51; 829701.31, 2007333.73;
829718.06, 2007465.42; 829719.23, 2007463.84; 829699.85, 2007335.05; 829698.48, 2007336.46;
829720.30, 2007462.19; 829721.25, 2007460.47; 829697.21, 2007337.96; 829696.04, 2007339.54;
829722.09, 2007458.70; 829722.82, 2007456.87; 829694.98, 2007341.19; 829694.02, 2007342.91;
829723.42, 2007455.00; 829723.52, 2007454.66; 829693.18, 2007344.68; 829692.46, 2007346.51;
829736.51, 2007407.12; 829744.37, 2007381.77; 829692.04, 2007347.75; 829679.00, 2007389.82;
829781.75, 2007394.68; 829783.28, 2007395.17; 829678.81, 2007390.45; 829678.71, 2007390.79;
829785.19, 2007395.65; 829787.12, 2007396.00; 829675.10, 2007404.00; 829674.74, 2007403.62
829789.08, 2007396.22; 829791.04, 2007396.32; 829673.33, 2007402.26; 829671.83, 2007400.98;
829791.73, 2007396.33; 829845.90, 2007396.00; 829670.25, 2007399.81; 829668.60, 2007398.75;
829847.17, 2007395.96; 829849.13, 2007395.80; 829666.89, 2007397.79; 829665.11, 2007396.95;
829849.83, 2007395.71; 829881.85, 2007391.29; 829663.28, 2007396.23; 829661.41, 2007395.62;
829883.10, 2007391.09; 829885.02, 2007390.67; 829659.51, 2007395.15; 829657.57, 2007394.79;
829886.91, 2007390.13; 829888.76, 2007389.47; 829655.62, 2007394.57; 829653.66, 2007394.47;
829890.56, 2007388.69; 829892.31, 2007387.80; 829651.69, 2007394.50; 829649.74, 2007394.66;
829894.00, 2007386.79; 829895.61, 2007385.67; 829647.79, 2007394.95; 829645.87, 2007395.36;
829897.15, 2007384.45; 829898.61, 2007383.13; 829643.98, 2007395.90; 829642.13, 2007396.56;
829899.98, 2007381.72; 829901.25, 2007380.22; 829640.33, 2007397.34; 829638.58, 2007398.24;
829902.42, 2007378.64; 829903.49, 2007376.99; 829636.89, 2007399.25; 829635.28, 2007400.36;
829904.44, 2007375.28; 829905.28, 2007373.50; 829633.74, 2007401.58; 829632.28, 2007402.90;
829906.01, 2007371.67; 829906.61, 2007369.80; 829630.91, 2007404.31; 829629.64, 2007405.81;
829907.09, 2007367.90; 829907.44, 2007365.96; 829628.47, 2007407.39; 829627.40, 2007409.04;
829907.67, 2007364.01; 829907.76, 2007362.05; 829626.45, 2007410.76; 829625.61, 2007412.53;
829907.73, 2007360.08; 829907.57, 2007358.13; 829624.88, 2007414.36; 829624.28, 2007416.23;
829907.28, 2007356.18; 829906.87, 2007354.26; 829623.80, 2007418.14; 829623.45, 2007420.07;
829906.33, 2007352.37; 829905.67, 2007350.52; 829623.22, 2007422.02; 829623.13, 2007423.98.
829904.89, 2007348.72; 829903.99, 2007346.97;

(iii) Note: Map of Unit 3 (Map 4) follows:



(9) Unit 4: Emajagua, Maunabo, Puerto Rico.

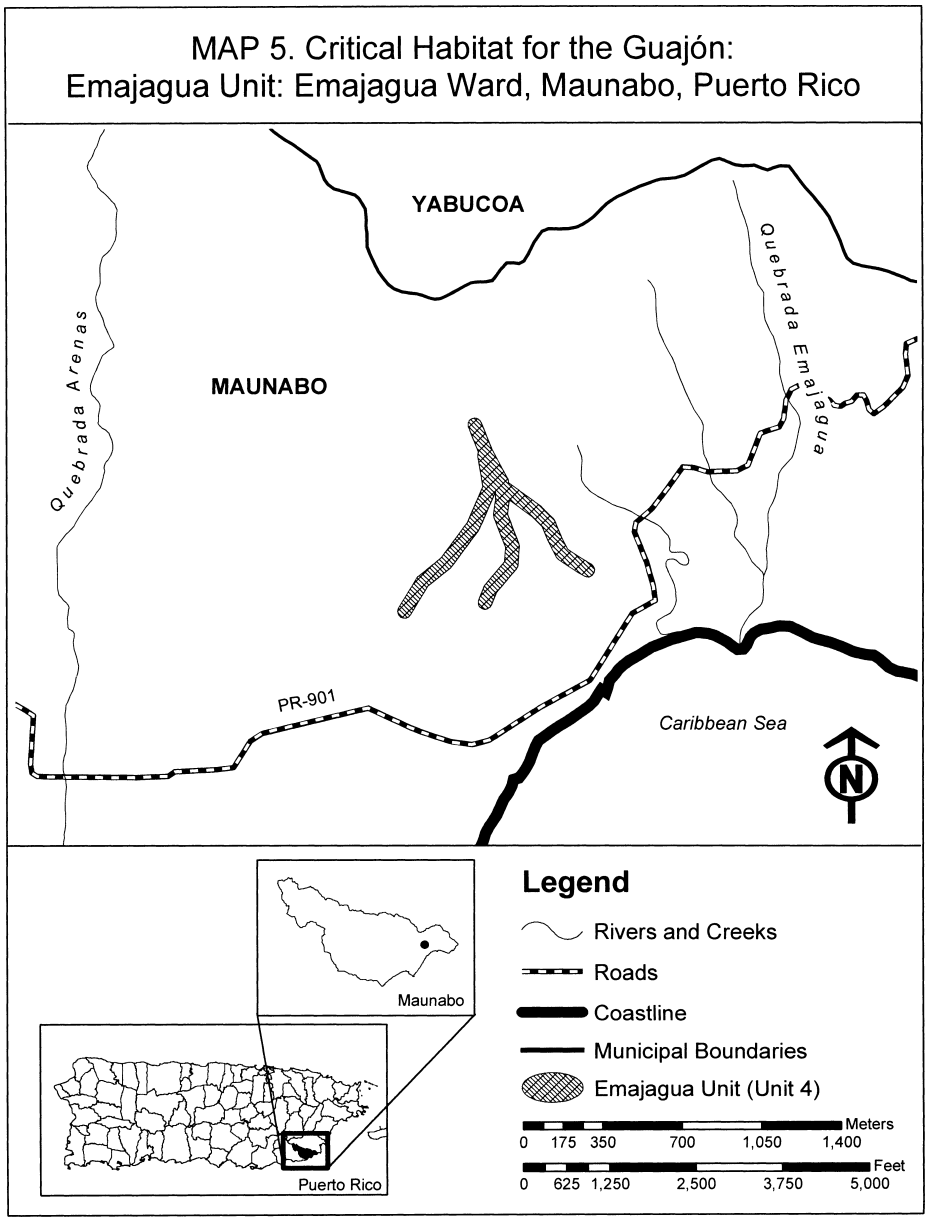
(i) *General Description:* Unit 4 consists of approximately 33.0 ac (13.4 ha) between Quebrada Arenas and Quebrada Emajagua, north of Road PR–901 within Emajagua Ward, Maunabo.

(ii) *Coordinates:* From Yabucoa and Punta Guayanés USGS 1:20,000 quadrangle maps. Unit 4 bounded by the following UTM 19 NAD 83 coordinates (E, N):

830301.03, 1993842.17; 830301.06, 1993844.14; 831163.88, 1994022.78; 831162.88, 1994021.10;
830301.22, 1993846.10; 830301.51, 1993848.04; 831161.76, 1994019.48; 831160.54, 1994017.94;
830301.93, 1993849.96; 830302.46, 1993851.85; 831159.22, 1994016.48; 831157.81, 1994015.11;
830303.12, 1993853.70; 830303.91, 1993855.50; 831156.31, 1994013.84; 831154.73, 1994012.67;
830304.80, 1993857.25; 830305.10, 1993857.77; 831153.08, 1994011.61; 831151.36, 1994010.65;
830382.85, 1993991.51; 830383.56, 1993992.68; 831149.59, 1994009.81; 831147.76, 1994009.09;
830384.68, 1993994.30; 830385.90, 1993995.83; 831145.89, 1994008.48; 831143.98, 1994008.01;
830387.22, 1993997.29; 830388.63, 1993998.66; 831142.05, 1994007.65; 831140.10, 1994007.43;
830389.55, 1993999.46; 830491.53, 1994084.69; 831138.14, 1994007.33; 831136.17, 1994007.36;
830602.31, 1994239.62; 830670.30, 1994401.70; 831134.21, 1994007.52; 831132.27, 1994007.81;
830645.67, 1994534.02; 830645.49, 1994535.09; 831130.35, 1994008.22; 831128.46, 1994008.76;
830645.27, 1994537.04; 830645.17, 1994539.01; 831126.61, 1994009.42; 831124.80, 1994010.20;
830645.20, 1994540.97; 830645.36, 1994542.93; 831123.06, 1994011.10; 831122.95, 1994011.16;
830645.65, 1994544.87; 830646.06, 1994546.79; 831080.61, 1994034.90; 831079.03, 1994035.85;
830646.60, 1994548.68; 830647.26, 1994550.53; 831078.79, 1994036.00; 831009.62, 1994081.48;
830648.04, 1994552.34; 830648.94, 1994554.09; 831008.24, 1994082.44; 831006.70, 1994083.66;
830649.02, 1994554.22; 830603.53, 1994664.55; 831005.24, 1994084.98; 831003.88, 1994086.39;
830603.03, 1994665.86; 830602.43, 1994667.73; 831002.61, 1994087.89; 831001.43, 1994089.47;
830601.95, 1994669.64; 830601.59, 1994671.57; 831000.37, 1994091.12; 830999.64, 1994092.40;
830601.37, 1994673.52; 830601.27, 1994675.49; 830965.59, 1994156.06; 830965.37, 1994156.49;
830601.30, 1994677.45; 830601.46, 1994679.41; 830964.52, 1994158.26; 830964.46, 1994158.40;
830601.75, 1994681.35; 830602.16, 1994683.28; 830934.84, 1994227.62; 830889.23, 1994271.98;
830602.70, 1994685.17; 830603.36, 1994687.02; 830787.46, 1994344.57; 830787.30, 1994342.66;
830604.14, 1994688.82; 830605.04, 1994690.57; 830787.30, 1994342.64; 830780.27, 1994281.48;
830606.05, 1994692.25; 830607.17, 1994693.87; 830832.47, 1994149.96; 830832.83, 1994149.01;
830608.39, 1994695.41; 830609.71, 1994696.87; 830833.43, 1994147.14; 830833.91, 1994145.24;
830611.12, 1994698.23; 830612.62, 1994699.51; 830834.26, 1994143.30; 830834.49, 1994141.35;
830614.19, 1994700.68; 830615.84, 1994701.74; 830834.58, 1994139.39; 830834.55, 1994137.42;
830617.56, 1994702.70; 830619.34, 1994703.54; 830834.52, 1994136.87; 830829.02, 1994054.98;
830621.17, 1994704.26; 830623.04, 1994704.86; 830828.89, 1994053.58; 830828.60, 1994051.63;
830624.94, 1994705.34; 830626.87, 1994705.70; 830828.19, 1994049.71; 830827.65, 1994047.82;
830628.83, 1994705.92; 830630.79, 1994706.02; 830826.99, 1994045.97; 830826.21, 1994044.17;
830632.75, 1994705.99; 830634.71, 1994705.83; 830825.31, 1994042.42; 830824.30, 1994040.73;
830636.66, 1994705.54; 830638.58, 1994705.13; 830823.19, 1994039.12; 830822.35, 1994038.04;
830640.47, 1994704.59; 830642.32, 1994703.93; 830736.17, 1993932.11; 830714.39, 1993876.45;
830644.12, 1994703.15; 830645.87, 1994702.25; 830714.36, 1993876.37; 830713.58, 1993874.57;
830647.56, 1994701.24; 830649.17, 1994700.12; 830712.68, 1993872.82; 830711.67, 1993871.13;
830650.71, 1994698.90; 830652.17, 1994697.58; 830710.55, 1993869.52; 830709.33, 1993867.98;
830653.54, 1994696.17; 830654.81, 1994694.67; 830708.01, 1993866.52; 830706.60, 1993865.15;
830655.98, 1994693.10; 830657.04, 1994691.45; 830705.11, 1993863.88; 830703.53, 1993862.71;
830658.00, 1994689.73; 830658.84, 1994687.95; 830701.88, 1993861.64; 830700.16, 1993860.69;
830659.06, 1994687.44; 830706.46, 1994572.47; 830698.38, 1993859.85; 830696.56, 1993859.12;
830780.50, 1994437.89; 830780.89, 1994437.15; 830694.69, 1993858.52; 830692.78, 1993858.04;
830781.73, 1994435.37; 830782.46, 1994433.55; 830690.85, 1993857.69; 830688.90, 1993857.47;
830783.06, 1994431.68; 830783.54, 1994429.77; 830686.93, 1993857.37; 830684.97, 1993857.40;
830783.89, 1994427.84; 830784.12, 1994425.89; 830683.01, 1993857.56; 830681.07, 1993857.85;
830784.19, 1994424.69; 830784.37, 1994420.55; 830679.14, 1993858.26; 830677.26, 1993858.80;
830925.97, 1994319.54; 830926.41, 1994319.23; 830675.40, 1993859.46; 830673.60, 1993860.24;
830927.95, 1994318.00; 830929.40, 1994316.69; 830671.85, 1993861.14; 830670.17, 1993862.15;
830929.47, 1994316.62; 830981.02, 1994266.48; 830668.55, 1993863.26; 830667.01, 1993864.49;
830982.32, 1994265.13; 830983.59, 1994263.63; 830665.55, 1993865.80; 830664.19, 1993867.22;
830984.76, 1994262.06; 830985.83, 1994260.41; 830662.91, 1993868.71; 830661.74, 1993870.29;
830986.78, 1994258.69; 830987.63, 1994256.91; 830660.68, 1993871.94; 830659.72, 1993873.66;
830987.69, 1994256.77; 831019.16, 1994183.23; 830658.88, 1993875.43; 830658.16, 1993877.26;
831048.99, 1994127.46; 831110.90, 1994086.77; 830657.56, 1993879.13; 830657.08, 1993881.04;
831152.31, 1994063.55; 831153.89, 1994062.60; 830656.72, 1993882.97; 830656.50, 1993884.92;
831155.51, 1994061.48; 831157.05, 1994060.26; 830656.40, 1993886.89; 830656.43, 1993888.85;
831158.50, 1994058.94; 831159.87, 1994057.53; 830656.59, 1993890.81; 830656.88, 1993892.75;
831161.14, 1994056.03; 831162.31, 1994054.46; 830657.29, 1993894.67; 830657.83, 1993896.56;
831163.38, 1994052.81; 831164.33, 1994051.09; 830658.46, 1993898.34; 830681.96, 1993958.36;
831165.17, 1994049.31; 831165.90, 1994047.48; 830681.99, 1993958.44; 830682.77, 1993960.24;
831166.50, 1994045.61; 831166.98, 1994043.71; 830683.66, 1993961.99; 830684.67, 1993963.68;
831167.33, 1994041.78; 831167.56, 1994039.82; 830685.79, 1993965.29; 830686.62, 1993966.37;
831167.65, 1994037.86; 831167.62, 1994035.90; 830769.74, 1994068.54; 830774.14, 1994134.12;
831167.46, 1994033.94; 831167.18, 1994031.99; 830721.67, 1994266.34; 830721.31, 1994267.29;
831166.76, 1994030.07; 831166.22, 1994028.18; 830720.71, 1994269.16; 830720.23, 1994271.07;
831165.56, 1994026.33; 831164.78, 1994024.53; 830719.88, 1994273.00; 830719.65, 1994274.95;

830719.55, 1994276.91; 830719.58, 1994278.88; 830719.74, 1994280.84; 830719.74, 1994280.85; 830727.37, 1994347.16; 830726.01, 1994379.24; 830656.38, 1994213.28; 830655.84, 1994212.07; 830654.95, 1994210.32; 830653.94, 1994208.63; 830653.12, 1994207.43; 830538.15, 1994046.64; 830537.86, 1994046.23; 830536.63, 1994044.69; 830535.32, 1994043.23; 830533.90, 1994041.86; 830532.98, 1994041.06; 830432.11, 1993956.76; 830357.02, 1993827.59; 830356.30, 1993826.42; 830355.19, 1993824.80; 830353.96, 1993823.26; 830352.65, 1993821.81; 830351.23, 1993820.44; 830349.74, 1993819.17; 830348.16, 1993818.00; 830346.51, 1993816.93; 830344.79, 1993815.97; 830343.02, 1993815.13; 830341.19, 1993814.41; 830339.32, 1993813.81; 830337.41, 1993813.33; 830335.48, 1993812.98; 830333.53, 1993812.75; 830331.56, 1993812.65; 830329.60, 1993812.69; 830327.64, 1993812.84; 830325.70, 1993813.13; 830323.78, 1993813.55; 830321.89, 1993814.08; 830320.04, 1993814.75; 830318.23, 1993815.53; 830316.48, 1993816.42; 830314.80, 1993817.43; 830313.18, 1993818.55; 830311.64, 1993819.77; 830310.19, 1993821.09; 830308.82, 1993822.50; 830307.55, 1993824.00; 830306.37, 1993825.58; 830305.31, 1993827.23; 830304.35, 1993828.94; 830303.51, 1993830.72; 830302.79, 1993832.55; 830302.19, 1993834.42; 830301.71, 1993836.32; 830301.36, 1993838.26; 830301.13, 1993840.21; 830301.03, 1993842.17.

(iii) Note: Map of Unit 4 (Map 5) follows:



(10) Unit 5: Jacaboa, Patillas, Puerto Rico.

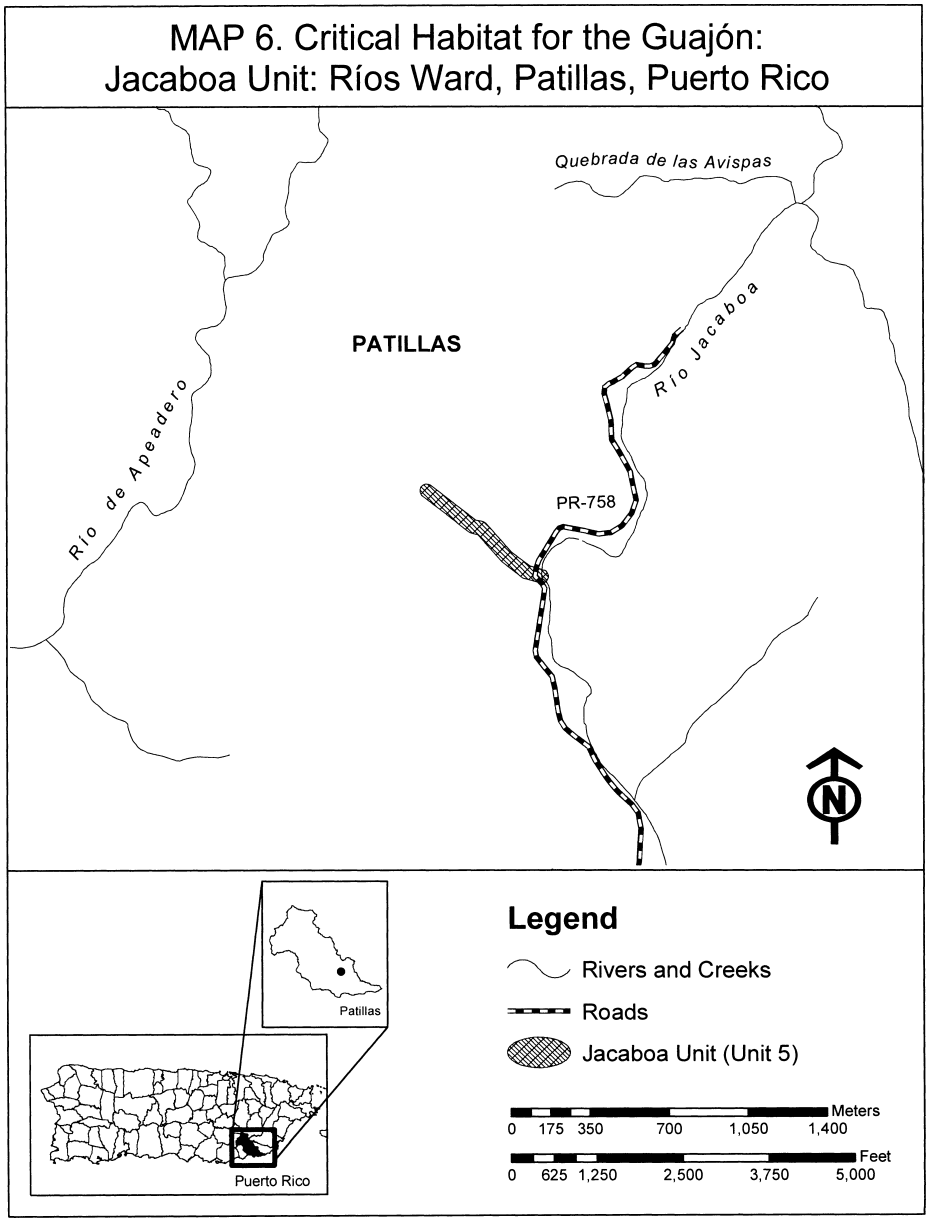
(i) *General Description:* Unit 5 consists of approximately 10.3 ac (4.2 ha) northwest of road PR–758 within Ríos Ward, Patillas.

(ii) *Coordinates:* From Yabucoa and Punta Tuna USGS 1:20,000 quadrangle maps. Unit 5 bounded by the following UTM 19 NAD 83 coordinates (E, N):

820101.76, 1993627.91; 820101.80, 1993629.87; 820101.96, 1993631.83; 820102.25, 1993633.77; 820102.66, 1993635.69; 820103.20, 1993637.58; 820103.86, 1993639.43; 820104.64, 1993641.24;

820105.54, 1993642.98; 820106.55, 1993644.67; 820677.14, 1993246.67; 820676.73, 1993244.75;
820107.67, 1993646.28; 820108.89, 1993647.82; 820676.19, 1993242.86; 820675.53, 1993241.01;
820110.21, 1993649.28; 820111.62, 1993650.65; 820674.74, 1993239.21; 820673.85, 1993237.46;
820113.12, 1993651.92; 820114.70, 1993653.09; 820672.84, 1993235.77; 820671.72, 1993234.16;
820116.35, 1993654.15; 820118.07, 1993655.11; 820670.50, 1993232.62; 820669.18, 1993231.16;
820119.84, 1993655.95; 820121.67, 1993656.67; 820667.76, 1993229.80; 820666.27, 1993228.53;
820123.54, 1993657.27; 820125.45, 1993657.75; 820664.69, 1993227.36; 820663.04, 1993226.29;
820127.38, 1993658.10; 820129.33, 1993658.32; 820661.32, 1993225.34; 820659.54, 1993224.50;
820131.30, 1993658.42; 820133.26, 1993658.39; 820657.72, 1993223.77; 820655.84, 1993223.17;
820135.22, 1993658.23; 820137.16, 1993657.94; 820653.94, 1993222.70; 820652.01, 1993222.34;
820139.08, 1993657.52; 820140.97, 1993656.98; 820650.05, 1993222.12; 820648.09, 1993222.02;
820142.82, 1993656.32; 820144.62, 1993655.54; 820646.13, 1993222.06; 820644.17, 1993222.22;
820146.37, 1993654.64; 820148.06, 1993653.63; 820642.22, 1993222.50; 820640.30, 1993222.92;
820149.67, 1993652.51; 820149.79, 1993652.43; 820639.87, 1993223.03; 820571.82, 1993241.16;
820252.55, 1993575.46; 820252.92, 1993575.18; 820570.37, 1993241.59; 820568.52, 1993242.25;
820351.83, 1993498.67; 820380.40, 1993494.03; 820566.71, 1993243.03; 820564.97, 1993243.93;
820380.96, 1993493.93; 820382.88, 1993493.52; 820563.28, 1993244.94; 820561.66, 1993246.06;
820384.77, 1993492.98; 820386.62, 1993492.32; 820561.49, 1993246.19; 820475.85, 1993310.68;
820388.43, 1993491.53; 820390.17, 1993490.64; 820474.48, 1993311.77; 820473.03, 1993313.09;
820391.86, 1993489.63; 820393.47, 1993488.51; 820471.73, 1993314.43; 820360.45, 1993436.43;
820395.01, 1993487.29; 820396.47, 1993485.97; 820334.68, 1993440.61; 820334.11, 1993440.71;
820397.77, 1993484.63; 820514.21, 1993356.97; 820332.19, 1993441.12; 820330.30, 1993441.66;
820592.94, 1993297.68; 820655.33, 1993281.06; 820328.45, 1993442.32; 820326.65, 1993443.11;
820656.79, 1993280.63; 820658.64, 1993279.97; 820324.90, 1993444.00; 820323.22, 1993445.01;
820660.44, 1993279.19; 820662.19, 1993278.29; 820321.60, 1993446.13; 820321.12, 1993446.50;
820663.87, 1993277.28; 820665.49, 1993276.16; 820216.36, 1993527.53; 820113.79, 1993604.37;
820667.03, 1993274.94; 820668.48, 1993273.62; 820112.36, 1993605.50; 820110.90, 1993606.82;
820669.85, 1993272.21; 820671.12, 1993270.71; 820109.54, 1993608.23; 820108.27, 1993609.73;
820672.29, 1993269.13; 820673.36, 1993267.48; 820107.10, 1993611.31; 820106.03, 1993612.96;
820674.31, 1993265.76; 820675.15, 1993263.99; 820105.08, 1993614.68; 820104.24, 1993616.46;
820675.87, 1993262.16; 820676.47, 1993260.29; 820103.52, 1993618.28; 820102.91, 1993620.15;
820676.95, 1993258.38; 820677.30, 1993256.45; 820102.44, 1993622.06; 820102.09, 1993623.99;
820677.53, 1993254.50; 820677.62, 1993252.54; 820101.86, 1993625.94; 820101.76, 1993627.91.
820677.59, 1993250.57; 820677.43, 1993248.61;

(iii) Note: Map of Unit 5 (Map 6) follows:



(11) Unit 6: Calabazas, Yabucoa, Puerto Rico.

(i) *General Description:* Unit 6 consists of approximately 13.8 ac (5.6 ha), including lands northeast of road PR–900, between Quebrada Guayabo to the south and Río Guayanés to the north, and south of Guayanés Unit, within Calabazas Ward, Yabucoa.

(ii) *Coordinates:* From Yabucoa USGS 1:20,000 quadrangle map. Unit 6 bounded by

the following UTM 19 NAD 83 coordinates (E, N):

825303.81, 1999020.54; 825324.29, 1999071.68; 825361.95, 1999106.10; 825427.53, 1999113.37; 825493.52, 1999090.98; 825544.83, 1999057.79; 825546.92, 1999059.93; 825572.78, 1999028.51; 825577.55, 1998990.44; 825576.37, 1998922.62; 825547.19, 1998888.32; 825518.03, 1998851.89; 825465.30, 1998834.21; 825446.21, 1998836.06; 825416.29, 1998854.72; 825377.77, 1998881.73; 825354.21, 1998900.47; 825325.99, 1998948.81; 825303.81, 1999020.54.

(iii) Note: The map depicting Unit 6 is provided at paragraph (12)(iii) of this entry.

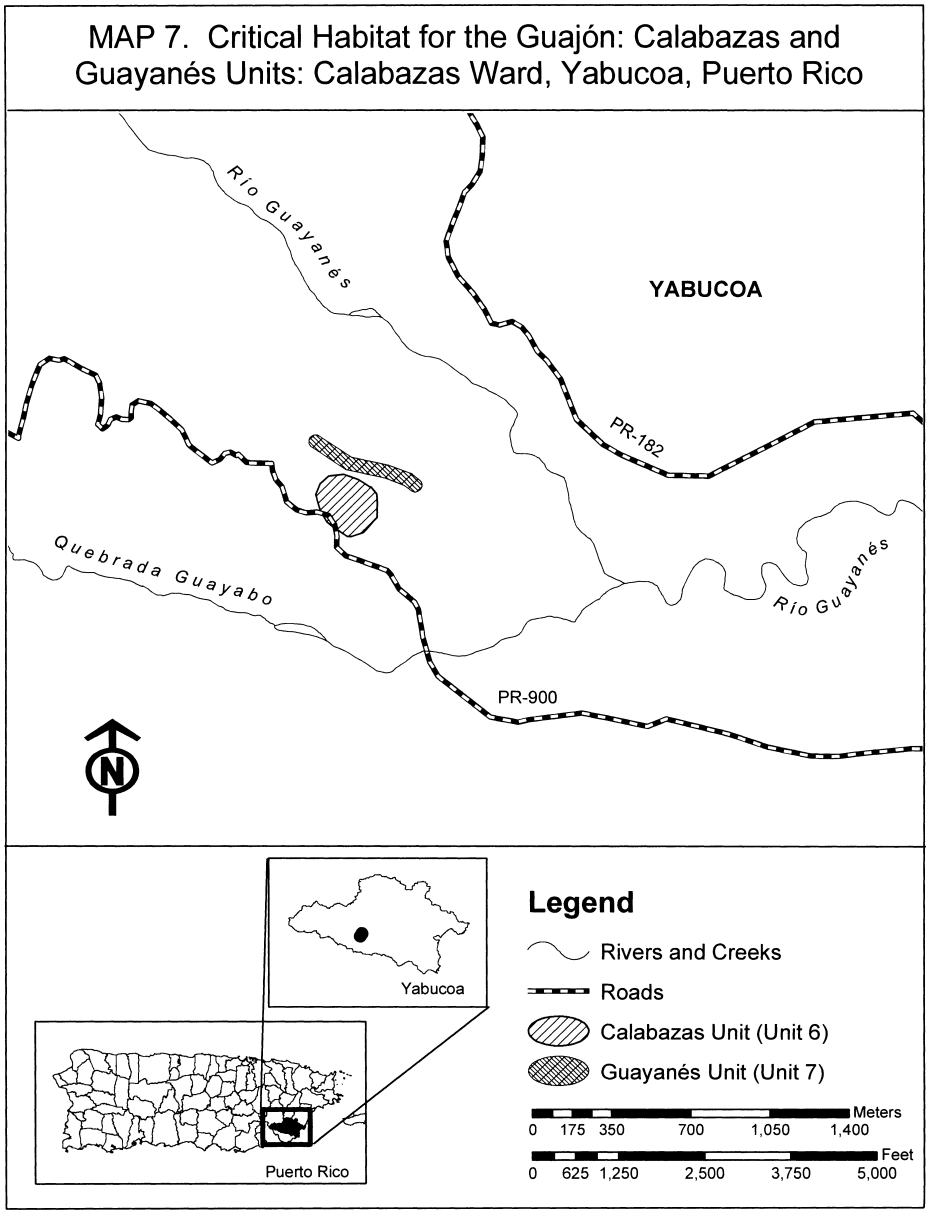
(12) Unit 7: Guayanés, Yabucoa, Puerto Rico.

(i) *General Description:* Unit 7 consists of approximately 7.9 ac (3.2 ha) northeast of Road PR–900 between Quebrada Guayabo to the south and Río Guayanés to the north, and north of Unit 6, within Calabazas Ward, Yabucoa.

(ii) *Coordinates:* From Yabucoa USGS 1:20,000 quadrangle map. Unit 7 bounded by the following UTM 19 NAD 83 coordinates (E, N):

825269.89, 1999257.75; 825269.92, 1999259.72; 825270.08, 1999261.68; 825270.37, 1999263.62; 825270.78, 1999265.54; 825271.32, 1999267.43; 825271.98, 1999269.28; 825272.76, 1999271.09; 825273.66, 1999272.83; 825274.67, 1999274.52; 825275.79, 1999276.13; 825277.01, 1999277.67; 825278.33, 1999279.13; 825279.74, 1999280.50; 825281.24, 1999281.77; 825282.82, 1999282.94; 825284.47, 1999284.01; 825286.19, 1999284.96; 825287.96, 1999285.80; 825289.79, 1999286.52; 825291.66, 1999287.13; 825293.57, 1999287.60; 825295.50, 1999287.96; 825297.45, 1999288.18; 825299.41, 1999288.28; 825301.38, 1999288.25; 825303.34, 1999288.09; 825305.28, 1999287.80; 825307.20, 1999287.38; 825309.09, 1999286.85; 825310.94, 1999286.18; 825312.74, 1999285.40; 825314.49, 1999284.51; 825316.18, 1999283.50; 825316.22, 1999283.47; 825459.03, 1999191.10; 825625.66, 1999156.49; 825626.84, 1999156.22; 825628.73, 1999155.68; 825629.63, 1999155.37; 825721.19, 1999122.74; 825722.14, 1999122.38; 825723.95, 1999121.60; 825725.69, 1999120.71; 825727.38, 1999119.70; 825728.99, 1999118.58; 825729.55, 1999118.16; 825761.67, 1999093.18; 825762.66, 1999092.38; 825764.12, 1999091.06; 825765.49, 1999089.65; 825766.76, 1999088.15; 825767.93, 1999086.57; 825768.99, 1999084.92; 825769.95, 1999083.20; 825770.79, 1999081.43; 825771.51, 1999079.60; 825772.11, 1999077.73; 825772.59, 1999075.82; 825772.94, 1999073.89; 825773.17, 1999071.94; 825773.27, 1999069.98; 825773.23, 1999068.01; 825773.07, 1999066.05; 825772.79, 1999064.11; 825772.37, 1999062.19; 825771.83, 1999060.30; 825771.17, 1999058.45; 825770.39, 1999056.65; 825769.49, 1999054.90; 825768.48, 1999053.21; 825767.37, 1999051.60; 825766.15, 1999050.06; 825764.83, 1999048.60; 825763.41, 1999047.23; 825761.92, 1999045.96; 825760.34, 1999044.79; 825758.69, 1999043.72; 825756.97, 1999042.77; 825755.19, 1999041.93; 825753.37, 1999041.21; 825751.50, 1999040.60; 825749.59, 1999040.13; 825747.66, 1999039.77; 825745.71, 1999039.55; 825743.74, 1999039.45; 825741.78, 1999039.48; 825739.82, 1999039.64; 825737.88, 1999039.93; 825735.96, 1999040.35; 825734.07, 1999040.89; 825732.22, 1999041.55; 825730.41, 1999042.33; 825728.66, 1999043.22; 825726.98, 1999044.23; 825725.36, 1999045.35; 825724.81, 1999045.77; 825696.49, 1999067.79; 825611.42, 1999098.11; 825441.33, 1999133.44; 825440.15, 1999133.71; 825438.26, 1999134.25; 825436.41, 1999134.91; 825434.60, 1999135.69; 825432.86, 1999136.59; 825431.17, 1999137.60; 825431.13, 1999137.62; 825283.60, 1999233.04; 825282.03, 1999234.13; 825280.49, 1999235.35; 825279.04, 1999236.67; 825277.67, 1999238.08; 825276.40, 1999239.58; 825275.23, 1999241.16; 825274.16, 1999242.81; 825273.21, 1999244.53; 825272.37, 1999246.30; 825271.64, 1999248.13; 825271.04, 1999250.00; 825270.56, 1999251.91; 825270.21, 1999253.84; 825269.99, 1999255.79; 825269.89, 1999257.75.

(iii) Note: Map of Units 6 and 7 (Map 7) follows:



(13) Unit 8: Panduras, Yabucoa, Puerto Rico.

(i) *General Description:* Unit 8 consists of approximately 28.6 ac (11.6 ha) to the northwest and southeast of Road PR–3 within Calabazas Ward, Yabucoa, and 18.2 ac (7.4 ha) of lands owned by the Puerto Rico Conservation Trust near the top of Cerro La Pandura.

(ii) *Coordinates:* From Yabucoa USGS 1:20,000 quadrangle map. Unit 8 bounded by the following UTM 19 NAD 83 coordinates (E, N):

827566.07, 1997348.94; 827566.10, 1997350.90; 828170.53, 1996723.82; 828169.03, 1996722.55; 827566.26, 1997352.86; 827566.55, 1997354.81; 828167.45, 1996721.38; 828165.80, 1996720.31; 827566.96, 1997356.73; 827567.50, 1997358.62; 828164.09, 1996719.36; 828162.31, 1996718.52; 827568.16, 1997360.47; 827568.94, 1997362.27; 828162.31, 1996718.52; 828160.48, 1996717.80; 827569.84, 1997364.02; 827570.13, 1997364.53; 828158.61, 1996717.19; 828156.71, 1996716.72; 827611.88, 1997436.35; 827612.60, 1997437.52; 828154.77, 1996716.36; 828152.82, 1996716.14; 827613.72, 1997439.14; 827614.94, 1997440.68; 828150.86, 1996716.04; 828149.74, 1996716.04; 827616.26, 1997442.13; 827617.67, 1997443.50; 828067.24, 1996717.74; 828066.40, 1996717.77; 827619.16, 1997444.77; 827620.74, 1997445.94; 828064.44, 1996717.93; 828062.49, 1996718.22; 827622.39, 1997447.01; 827624.11, 1997447.96; 828060.57, 1996718.63; 828058.68, 1996719.17; 827625.89, 1997448.80; 827627.71, 1997449.53; 828056.83, 1996719.83; 828055.03, 1996720.61; 827629.58, 1997450.13; 827631.49, 1997450.61; 828054.09, 1996721.08; 827968.16, 1996765.39; 827633.42, 1997450.96; 827635.38, 1997451.18; 827967.35, 1996765.82; 827965.66, 1996766.83; 827637.34, 1997451.28; 827639.30, 1997451.25; 827964.05, 1996767.95; 827962.51, 1996769.17; 827641.26, 1997451.09; 827643.20, 1997450.80; 827961.05, 1996770.49; 827959.68, 1996771.90; 827645.13, 1997450.39; 827647.02, 1997449.85; 827958.41, 1996773.40; 827957.24, 1996774.98; 827648.87, 1997449.19; 827650.67, 1997448.41; 827956.17, 1996776.63; 827955.26, 1996778.28; 827652.42, 1997447.51; 827654.10, 1997446.50; 827922.76, 1996841.09; 827880.59, 1996878.48; 827655.72, 1997445.38; 827657.26, 1997444.16; 827879.64, 1996879.36; 827878.28, 1996880.77; 827658.72, 1997442.84; 827660.08, 1997441.43; 827877.37, 1996881.82; 827844.26, 1996921.88; 827661.35, 1997439.93; 827662.53, 1997438.36; 827747.85, 1996996.84; 827746.86, 1996997.64; 827663.59, 1997436.70; 827664.55, 1997434.99; 827745.40, 1996998.96; 827744.22, 1997000.18; 827665.39, 1997433.21; 827666.11, 1997431.38; 827664.66, 1997086.34; 827664.48, 1997086.53; 827666.71, 1997429.51; 827667.19, 1997427.61; 827663.21, 1997088.03; 827662.04, 1997089.61; 827667.54, 1997425.68; 827667.77, 1997423.72; 827660.97, 1997091.26; 827660.02, 1997092.98; 827667.86, 1997421.76; 827667.83, 1997419.80; 827659.74, 1997093.53; 827584.59, 1997247.43; 827667.67, 1997417.84; 827667.39, 1997415.89; 827584.03, 1997248.65; 827583.30, 1997250.48; 827666.97, 1997413.97; 827666.43, 1997412.08; 827582.70, 1997252.35; 827582.22, 1997254.26; 827665.77, 1997410.23; 827664.99, 1997408.43; 827581.99, 1997255.45; 827566.51, 1997344.29; 827664.09, 1997406.68; 827663.80, 1997406.17; 827566.39, 1997345.02; 827566.17, 1997346.98; 827627.55, 1997343.81; 827640.42, 1997269.96; 827566.07, 1997348.94.

827711.77, 1997123.84; 827786.66, 1997042.73;

(iii) Note: The map depicting Unit 8 is provided at paragraph (14)(iii) of this entry.

827883.73, 1996967.26; 827884.71, 1996966.46;

(14) Unit 9: Talante, Yabucoa-Maunabo, Puerto Rico.

827886.17, 1996965.14; 827887.54, 1996963.73;

(i) *General Description:* Unit 9 consists of approximately 23.5 ac (9.5 ha) east of Road PR–3, including the headwaters of the Talante Creek and five unnamed drainages. About 2.8 ac (1.1 ha) of Unit 9 are located within Calabazas Ward, Yabucoa, and the remaining 21.6 ac (8.7 ha) are located within Talante Ward, Maunabo.

827888.44, 1996962.69; 827912.27, 1996933.87; 827952.33, 1996988.85; 827952.47, 1996989.05; 827953.69, 1996990.59; 827955.01, 1996992.05; 827956.43, 1996993.41; 827957.92, 1996994.69; 827959.50, 1996995.86; 827961.15, 1996996.92; 827962.87, 1996997.88; 827964.64, 1996998.72; 827966.47, 1996999.44; 827968.34, 1997000.04; 827968.39, 1997000.06; 828042.04, 1997020.99; 828043.90, 1997021.45; 828045.83, 1997021.80; 828047.79, 1997022.03; 828049.75, 1997022.12; 828051.71, 1997022.09; 828053.67, 1997021.93; 828055.62, 1997021.65; 828057.54, 1997021.23; 828059.35, 1997020.72; 828145.05, 1996993.46; 828145.12, 1996993.44; 828146.97, 1996992.78; 828148.78, 1996992.00; 828150.52, 1996991.10; 828152.21, 1996990.09; 828153.83, 1996988.97; 828155.37, 1996987.75; 828156.82, 1996986.43; 828158.19, 1996985.02; 828159.46, 1996983.52; 828160.63, 1996981.95; 828161.06, 1996981.32; 828201.73, 1996919.32; 828202.37, 1996918.29; 828203.33, 1996916.58; 828204.17, 1996914.80; 828204.82, 1996913.16; 828225.52, 1996856.56; 828225.58, 1996856.38; 828226.18, 1996854.51; 828226.66, 1996852.60; 828227.02, 1996850.67; 828227.24, 1996848.72; 828227.28, 1996848.25; 828230.87, 1996794.26; 828230.93, 1996792.77; 828230.90, 1996790.81; 828230.74, 1996788.85; 828230.45, 1996786.90; 828230.04, 1996784.98; 828229.50, 1996783.09; 828228.84, 1996781.24; 828228.06, 1996779.44; 828227.16, 1996777.69; 828226.15, 1996776.01; 828225.03, 1996774.39; 828223.81, 1996772.85; 828222.49, 1996771.39; 828221.16, 1996770.10; 828170.61, 1996723.90;

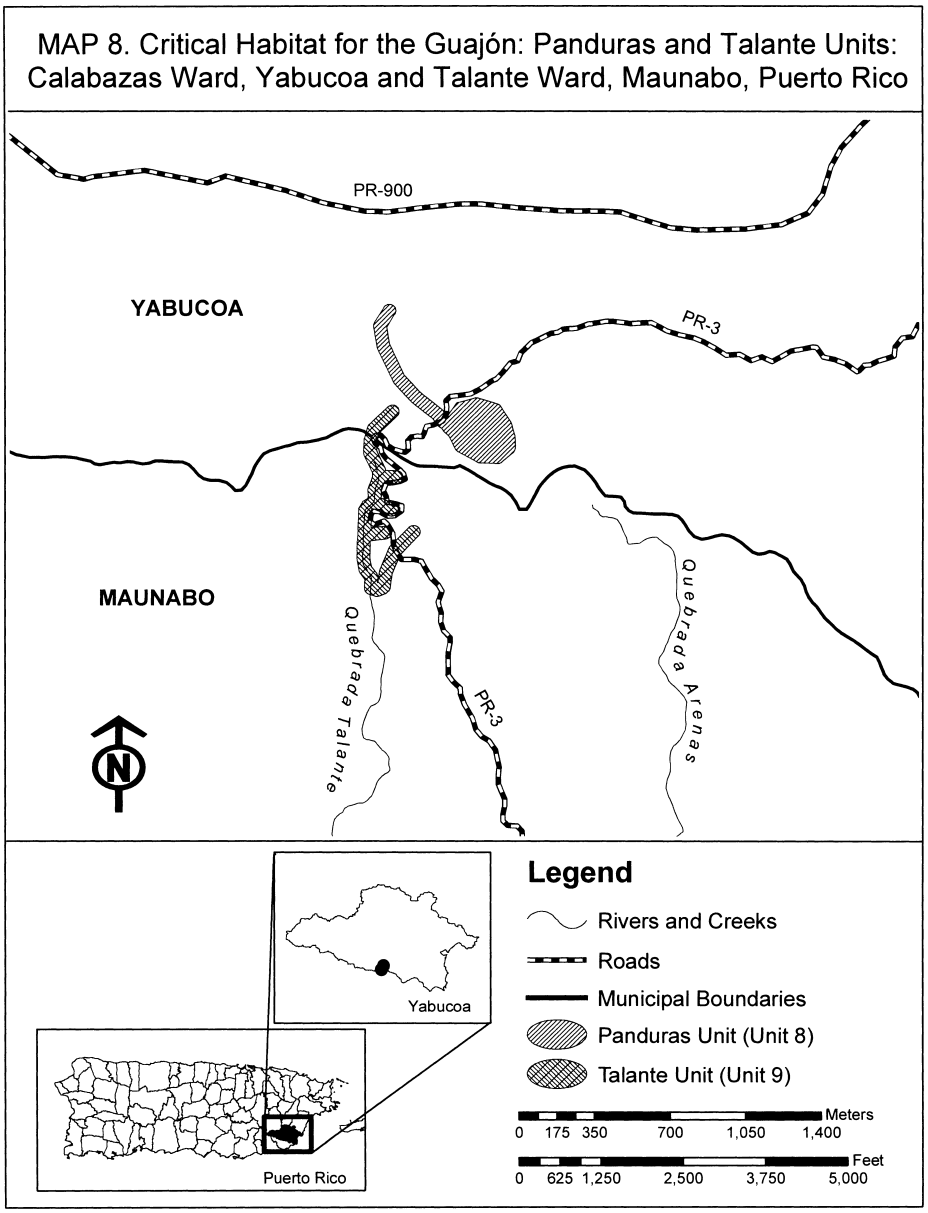
(ii) *Coordinates:* From Yabucoa USGS 1:20,000 quadrangle map. Unit 9 bounded by the following UTM 19 NAD 83 coordinates (E, N):

827550.12, 1996582.81; 827550.15, 1996584.77; 827501.36, 1996260.52; 827501.40, 1996262.48; 827501.41, 1996262.67; 827503.20, 1996295.22; 827502.70, 1996331.19; 827502.73, 1996333.01; 827504.51, 1996371.21; 827504.52, 1996371.27; 827504.68, 1996373.23; 827504.96, 1996375.18; 827505.38, 1996377.10; 827505.92, 1996378.99; 827506.58, 1996380.84; 827506.64, 1996380.97; 827506.08, 1996421.48; 827506.11, 1996423.36; 827506.11, 1996423.48; 827507.89, 1996457.21; 827507.49, 1996486.28; 827507.52, 1996488.16; 827507.68, 1996490.12; 827507.97, 1996492.06; 827508.39, 1996493.99; 827508.93, 1996495.87; 827509.59, 1996497.73; 827510.37, 1996499.53; 827511.26, 1996501.28; 827512.08, 1996502.66; 827524.53, 1996522.50; 827524.72, 1996522.80; 827525.84, 1996524.42; 827527.06, 1996525.96; 827528.38, 1996527.41; 827529.79, 1996528.78; 827531.28, 1996530.04; 827548.77, 1996543.95; 827551.50, 1996556.77; 827550.16, 1996581.70;

827550.31, 1996586.73; 827550.60, 1996588.68; 827711.69, 1996653.87; 827712.29, 1996652.00;
827551.01, 1996590.60; 827551.01, 1996590.60; 827712.77, 1996650.09; 827713.12, 1996648.16;
827551.55, 1996592.49; 827552.11, 1996594.08; 827713.35, 1996646.21; 827713.45, 1996644.25;
827562.90, 1996622.18; 827570.11, 1996645.71; 827713.42, 1996642.28; 827713.26, 1996640.32;
827570.06, 1996646.71; 827570.05, 1996647.35; 827712.97, 1996638.38; 827712.55, 1996636.46;
827570.13, 1996664.90; 827554.06, 1996695.96; 827712.01, 1996634.57; 827711.35, 1996632.72;
827554.02, 1996696.03; 827553.61, 1996696.87; 827711.35, 1996632.72; 827710.57, 1996630.92;
827529.60, 1996747.39; 827529.18, 1996748.32; 827709.68, 1996629.17; 827709.68, 1996629.17;
827528.45, 1996750.15; 827527.85, 1996752.02; 827708.67, 1996627.48; 827707.55, 1996625.87;
827527.37, 1996753.93; 827527.02, 1996755.86; 827706.33, 1996624.33; 827705.01, 1996622.87;
827526.80, 1996757.81; 827526.70, 1996759.77; 827703.60, 1996621.50; 827702.10, 1996620.23;
827526.70, 1996761.01; 827528.06, 1996816.12; 827700.52, 1996619.06; 827698.87, 1996617.99;
827528.09, 1996816.85; 827528.25, 1996818.81; 827698.87, 1996617.99; 827697.15, 1996617.04;
827528.53, 1996820.75; 827528.95, 1996822.67; 827695.38, 1996616.20; 827695.38, 1996616.20;
827529.49, 1996824.56; 827529.57, 1996824.81; 827693.55, 1996615.47; 827691.68, 1996614.87;
827547.87, 1996880.16; 827548.45, 1996881.75; 827689.77, 1996614.39; 827687.84, 1996614.04;
827549.23, 1996883.56; 827550.13, 1996885.30; 827685.89, 1996613.82; 827683.93, 1996613.72;
827551.14, 1996886.99; 827552.25, 1996888.61; 827682.99, 1996613.72; 827623.38, 1996614.57;
827553.48, 1996890.15; 827554.80, 1996891.60; 827620.02, 1996603.60; 827619.90, 1996603.21;
827554.86, 1996891.66; 827590.37, 1996928.18; 827619.34, 1996601.62; 827610.47, 1996578.53;
827591.34, 1996929.13; 827639.45, 1996974.29; 827611.68, 1996556.03; 827611.72, 1996554.91;
827639.83, 1996974.64; 827641.33, 1996975.92; 827611.69, 1996552.95; 827611.53, 1996550.99;
827642.90, 1996977.09; 827644.56, 1996978.15; 827611.24, 1996549.05; 827611.07, 1996548.16;
827646.27, 1996979.11; 827648.05, 1996979.95; 827610.79, 1996546.87; 827675.26, 1996519.57;
827649.88, 1996980.67; 827651.75, 1996981.27; 827676.37, 1996519.07; 827678.12, 1996518.17;
827653.65, 1996981.75; 827655.58, 1996982.10; 827679.81, 1996517.16; 827681.42, 1996516.04;
827657.54, 1996982.33; 827659.50, 1996982.43; 827682.96, 1996514.82; 827684.42, 1996513.50;
827661.46, 1996982.39; 827663.42, 1996982.23; 827685.79, 1996512.09; 827687.06, 1996510.59;
827665.37, 1996981.95; 827667.29, 1996981.53; 827688.23, 1996509.01; 827689.30, 1996507.36;
827669.18, 1996980.99; 827671.03, 1996980.33; 827690.25, 1996505.65; 827691.09, 1996503.87;
827672.83, 1996979.55; 827674.58, 1996978.65; 827691.81, 1996502.04; 827692.42, 1996500.17;
827676.26, 1996977.65; 827677.88, 1996976.53; 827692.89, 1996498.27; 827693.25, 1996496.33;
827679.42, 1996975.31; 827680.88, 1996973.99; 827693.47, 1996494.38; 827693.57, 1996492.42;
827682.24, 1996972.58; 827683.52, 1996971.08; 827693.54, 1996490.45; 827693.38, 1996488.50;
827684.69, 1996969.50; 827685.75, 1996967.85; 827693.09, 1996486.55; 827692.68, 1996484.63;
827686.71, 1996966.13; 827687.55, 1996964.36; 827692.14, 1996482.74; 827691.48, 1996480.89;
827688.27, 1996962.53; 827688.87, 1996960.66; 827690.69, 1996479.09; 827689.80, 1996477.34;
827689.35, 1996958.75; 827689.70, 1996956.82; 827688.79, 1996475.65; 827687.67, 1996474.04;
827689.93, 1996954.87; 827690.03, 1996952.90; 827686.45, 1996472.50; 827685.13, 1996471.04;
827689.99, 1996950.94; 827689.83, 1996948.98; 827683.72, 1996469.67; 827682.22, 1996468.40;
827689.55, 1996947.04; 827689.13, 1996945.12; 827680.64, 1996467.23; 827678.99, 1996466.17;
827688.59, 1996943.23; 827687.93, 1996941.38; 827677.27, 1996465.21; 827675.50, 1996464.37;
827687.15, 1996939.57; 827686.25, 1996937.83; 827673.67, 1996463.65; 827671.80, 1996463.05;
827685.25, 1996936.14; 827684.13, 1996934.52; 827669.90, 1996462.57; 827667.96, 1996462.21;
827682.91, 1996932.98; 827681.59, 1996931.53; 827666.01, 1996461.99; 827664.05, 1996461.89;
827680.55, 1996930.51; 827632.94, 1996885.81; 827662.08, 1996461.92; 827660.12, 1996462.08;
827602.72, 1996854.74; 827587.99, 1996810.19; 827658.18, 1996462.37; 827656.26, 1996462.79;
827586.92, 1996766.70; 827607.63, 1996723.10; 827654.37, 1996463.32; 827652.59, 1996463.96;
827620.43, 1996698.38; 827621.14, 1996697.71; 827580.29, 1996492.29; 827572.67, 1996486.23;
827622.51, 1996696.30; 827623.78, 1996694.80; 827567.66, 1996478.25; 827567.96, 1996457.04;
827624.95, 1996693.22; 827626.01, 1996691.57; 827567.93, 1996455.16; 827567.92, 1996455.04;
827626.97, 1996689.86; 827627.81, 1996688.08; 827566.14, 1996421.31; 827566.34, 1996406.71;
827628.53, 1996686.25; 827629.14, 1996684.38; 827631.73, 1996413.78; 827632.50, 1996413.86;
827629.61, 1996682.48; 827629.97, 1996680.54; 827634.46, 1996413.95; 827636.42, 1996413.92;
827630.19, 1996678.59; 827630.29, 1996676.63; 827638.38, 1996413.76; 827640.33, 1996413.47;
827630.29, 1996676.01; 827684.67, 1996673.75; 827642.25, 1996413.06; 827644.14, 1996412.52;
827684.89, 1996673.74; 827686.84, 1996673.58; 827645.99, 1996411.86; 827645.99, 1996411.86;
827688.79, 1996673.29; 827690.71, 1996672.87; 827647.79, 1996411.08; 827649.54, 1996410.18;
827692.60, 1996672.34; 827694.45, 1996671.67; 827651.22, 1996409.17; 827652.84, 1996408.05;
827694.45, 1996671.67; 827696.25, 1996670.89; 827654.38, 1996406.83; 827655.84, 1996405.51;
827698.00, 1996670.00; 827698.00, 1996670.00; 827657.20, 1996404.10; 827658.48, 1996402.61;
827699.69, 1996668.99; 827701.30, 1996667.87; 827659.65, 1996401.03; 827660.71, 1996399.38;
827702.84, 1996666.65; 827704.30, 1996665.33; 827661.67, 1996397.66; 827662.51, 1996395.88;
827705.66, 1996663.92; 827706.94, 1996662.42; 827662.51, 1996395.88; 827663.23, 1996394.06;
827708.11, 1996660.84; 827709.17, 1996659.19; 827663.83, 1996392.19; 827664.31, 1996390.28;
827709.17, 1996659.19; 827710.13, 1996657.47; 827664.66, 1996388.35; 827664.89, 1996386.39;
827710.97, 1996655.70; 827710.97, 1996655.70; 827664.99, 1996384.43; 827664.95, 1996382.47;

827664.79, 1996380.51; 827664.51, 1996378.57; 827793.79, 1996396.70; 827794.15, 1996394.77;
827664.09, 1996376.64; 827663.55, 1996374.75; 827794.37, 1996392.82; 827794.47, 1996390.85;
827662.89, 1996372.90; 827662.89, 1996372.90; 827794.44, 1996388.89; 827794.28, 1996386.93;
827662.11, 1996371.10; 827661.21, 1996369.35; 827793.99, 1996384.99; 827793.58, 1996383.07;
827661.21, 1996369.35; 827660.20, 1996367.67; 827793.04, 1996381.18; 827792.37, 1996379.33;
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827646.92, 1996356.38; 827646.92, 1996356.38; 827763.19, 1996343.65; 827704.70, 1996283.52;
827645.09, 1996355.66; 827643.22, 1996355.06; 827690.15, 1996246.15; 827690.10, 1996246.02;
827641.31, 1996354.58; 827639.38, 1996354.23; 827689.90, 1996245.54; 827666.77, 1996189.80;
827639.14, 1996354.19; 827563.34, 1996343.54; 827657.85, 1996124.12; 827657.64, 1996122.80;
827562.76, 1996331.12; 827563.26, 1996295.01; 827657.22, 1996120.88; 827656.68, 1996118.99;
827563.23, 1996293.13; 827563.22, 1996292.95; 827656.02, 1996117.14; 827655.24, 1996115.33;
827561.59, 1996263.45; 827570.34, 1996223.52; 827654.34, 1996113.59; 827653.34, 1996111.90;
827594.25, 1996193.51; 827594.27, 1996193.48; 827652.22, 1996110.28; 827651.00, 1996108.74;
827595.44, 1996191.90; 827596.51, 1996190.25; 827649.68, 1996107.29; 827648.27, 1996105.92;
827597.46, 1996188.53; 827598.30, 1996186.75; 827646.77, 1996104.65; 827645.19, 1996103.48;
827599.03, 1996184.93; 827599.63, 1996183.06; 827643.54, 1996102.41; 827641.82, 1996101.46;
827600.11, 1996181.15; 827600.46, 1996179.22; 827640.30, 1996100.73; 827608.11, 1996086.40;
827600.69, 1996177.27; 827600.78, 1996175.30; 827607.85, 1996086.29; 827607.85, 1996086.29;
827600.79, 1996174.55; 827600.57, 1996148.78; 827606.02, 1996085.57; 827604.15, 1996084.96;
827600.59, 1996148.79; 827607.79, 1996201.75; 827604.15, 1996084.96; 827602.25, 1996084.49;
827608.00, 1996203.07; 827608.41, 1996204.99; 827600.31, 1996084.13; 827598.36, 1996083.91;
827608.95, 1996206.88; 827609.61, 1996208.73; 827596.40, 1996083.81; 827594.44, 1996083.84;
827609.81, 1996209.22; 827634.31, 1996268.25; 827592.48, 1996084.00; 827590.53, 1996084.29;
827650.95, 1996310.98; 827651.00, 1996311.11; 827588.61, 1996084.70; 827588.61, 1996084.70;
827651.78, 1996312.91; 827652.68, 1996314.66; 827586.72, 1996085.24; 827586.03, 1996085.47;
827653.69, 1996316.35; 827654.80, 1996317.96; 827560.45, 1996094.38; 827559.30, 1996094.80;
827656.02, 1996319.50; 827657.34, 1996320.96; 827557.49, 1996095.59; 827555.75, 1996096.48;
827657.40, 1996321.02; 827719.64, 1996385.01; 827554.06, 1996097.49; 827552.44, 1996098.61;
827741.95, 1996410.24; 827742.86, 1996411.23; 827550.90, 1996099.83; 827549.45, 1996101.15;
827744.27, 1996412.59; 827745.77, 1996413.86; 827548.08, 1996102.56; 827546.81, 1996104.06;
827747.35, 1996415.04; 827749.00, 1996416.10; 827545.64, 1996105.64; 827544.57, 1996107.29;
827750.71, 1996417.06; 827752.49, 1996417.90; 827543.62, 1996109.01; 827542.78, 1996110.78;
827754.32, 1996418.62; 827756.19, 1996419.22; 827542.05, 1996112.61; 827541.45, 1996114.48;
827758.09, 1996419.70; 827760.03, 1996420.05; 827540.97, 1996116.38; 827540.62, 1996118.32;
827761.98, 1996420.28; 827763.94, 1996420.37; 827540.40, 1996120.27; 827540.30, 1996122.23;
827765.91, 1996420.34; 827767.87, 1996420.18; 827540.30, 1996122.99; 827540.64, 1996164.41;
827769.81, 1996419.90; 827771.73, 1996419.48; 827519.02, 1996191.56; 827518.99, 1996191.60;
827773.62, 1996418.94; 827775.47, 1996418.28; 827517.82, 1996193.18; 827516.75, 1996194.83;
827777.27, 1996417.50; 827779.02, 1996416.60; 827515.80, 1996196.54; 827514.96, 1996198.32;
827780.71, 1996415.59; 827782.32, 1996414.48; 827514.23, 1996200.15; 827513.63, 1996202.02;
827783.86, 1996413.25; 827785.32, 1996411.94; 827513.17, 1996203.85; 827502.06, 1996254.60;
827786.69, 1996410.52; 827787.96, 1996409.03; 827502.04, 1996254.67; 827501.69, 1996256.61;
827789.13, 1996407.45; 827790.19, 1996405.80; 827501.46, 1996258.56; 827501.36, 1996260.52.
827791.15, 1996404.08; 827791.99, 1996402.30;
827792.71, 1996400.48; 827793.31, 1996398.61;

(iii) Note: Map of Units 8 and 9 (Map 8) follows:



(15) Unit 10: Guayabota, Yabucoa, Puerto Rico.

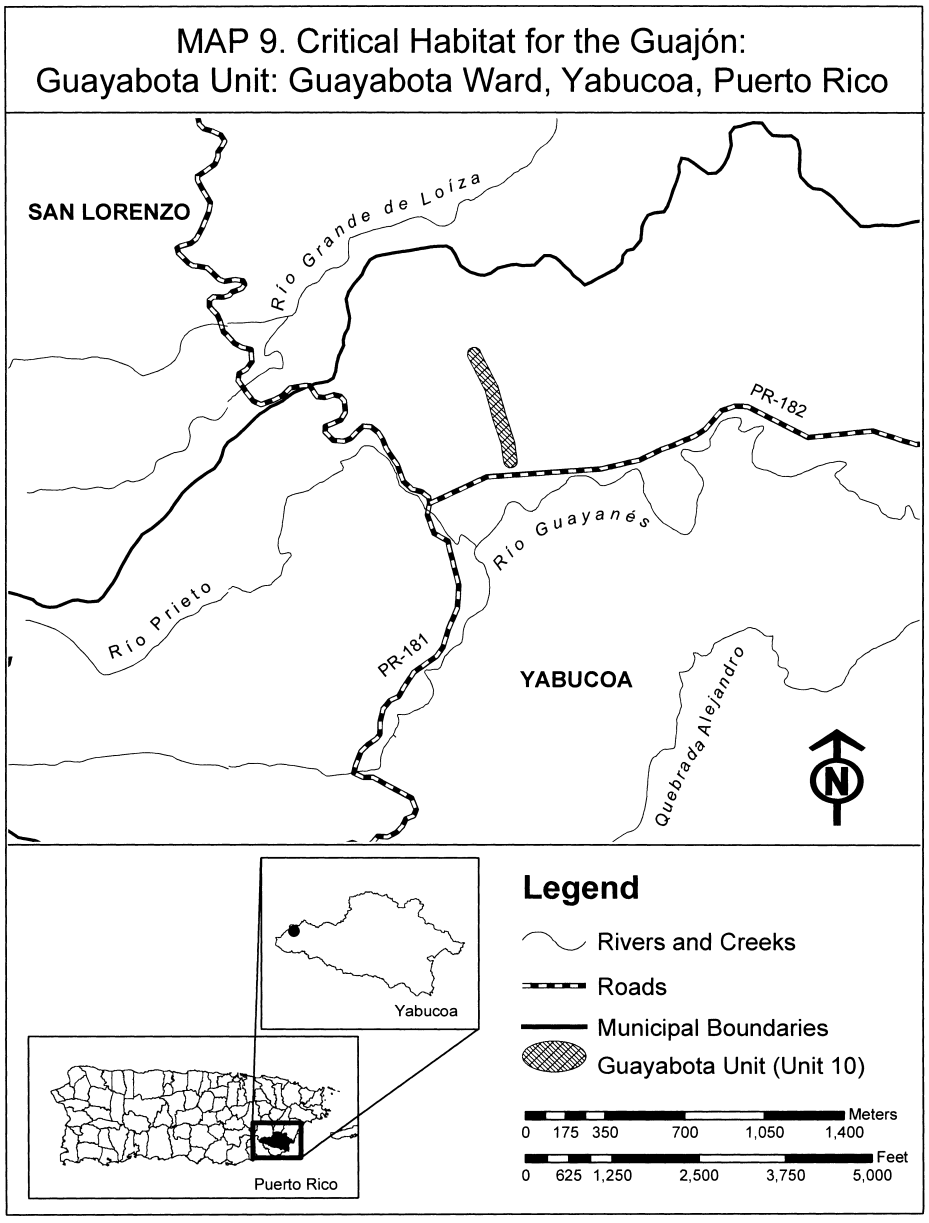
(i) *General Description:* Unit 10 consists of approximately 13.1 ac (5.3 ha) to the northeast of intersection of roads PR–181 to the east, and PR–182 and Rio Guayanés to the south, and south of the municipal boundary with San Lorenzo, within Guayabota Ward, Yabucoa.

(ii) *Coordinates:* From Yabucoa and Patillas USGS 1:20,000 quadrangle maps. Unit 10 bounded by the following UTM 19 NAD 83 coordinates (E, N):

818663.90, 2001950.98; 818669.55, 2002001.91; 818917.06, 2001876.11; 818883.41, 2001858.69; 818692.20, 2002048.84; 818715.15, 2002074.58; 818834.74, 2001853.78; 818779.64, 2001855.13; 818757.13, 2002102.71; 818816.53, 2002097.18; 818739.10, 2001875.75; 818691.94, 2001915.35; 818863.37, 2002080.88; 818903.97, 2002056.02; 818689.82, 2001915.32; 818663.90, 2001950.98.

818923.80, 2002001.21; 818925.95, 2001999.12; 818936.95, 2001969.61; 818946.01, 2001927.36;

(iii) Note: Map of Unit 10 (Map 9) follows:



(16) Unit 11: Guayabito, Yabucoa, Puerto Rico.

(i) *General Description:* Unit 11 consists of approximately 17.3 ac (7.0 ha) south of Road PR–900 and north of the Maunabo boundary, within Guayabota Ward, Yabucoa.

(ii) *Coordinates:* From Yabucoa USGS 1:20,000 quadrangle map. Unit 11 bounded by the following UTM 19 NAD 83 coordinates (E, N):

822520.09, 1998835.84; 822520.13, 1998837.81; 822520.29, 1998839.76; 822520.57, 1998841.71; 822520.99, 1998843.63; 822521.53, 1998845.52; 822522.19, 1998847.37; 822522.97, 1998849.17; 822523.87, 1998850.92; 822524.88, 1998852.61; 822526.00, 1998854.22; 822527.22, 1998855.76; 822528.54, 1998857.22; 822529.95, 1998858.58; 822531.45, 1998859.85; 822533.03, 1998861.02; 822534.68, 1998862.09; 822536.39, 1998863.04; 822538.17, 1998863.88; 822540.00, 1998864.61; 822541.87, 1998865.21; 822543.77, 1998865.69; 822545.32, 1998865.98; 822611.77, 1998876.73; 822655.55, 1998901.23; 822685.38, 1998957.12; 822733.68, 1999416.01; 822733.71, 1999416.30; 822734.00, 1999418.24; 822734.41, 1999420.16; 822734.95, 1999422.05; 822735.61, 1999423.90; 822736.39, 1999425.71; 822737.29, 1999427.45; 822738.30, 1999429.14; 822738.30, 1999429.14; 822739.42, 1999430.76; 822740.64, 1999432.30; 822741.96, 1999433.75; 822743.37, 1999435.12; 822744.87, 1999436.39; 822746.45, 1999437.56; 822746.45, 1999437.56; 822748.10, 1999438.62; 822749.81, 1999439.58; 822751.59, 1999440.42; 822753.42, 1999441.14; 822755.29, 1999441.74; 822757.19, 1999442.22; 822759.13, 1999442.57; 822761.08, 1999442.80; 822763.04, 1999442.89; 822765.01, 1999442.86; 822766.97, 1999442.70; 822768.91, 1999442.41; 822770.83, 1999442.00; 822772.72, 1999441.46; 822774.57, 1999440.80; 822776.37, 1999440.02; 822778.12, 1999439.12; 822779.81, 1999438.11; 822779.81, 1999438.11; 822781.42, 1999436.99; 822782.96, 1999435.77; 822783.85, 1999434.99; 822805.32, 1999415.26; 822805.89, 1999414.73; 822807.26, 1999413.32; 822808.53, 1999411.82; 822809.70, 1999410.24; 822810.76, 1999408.59; 822811.72, 1999406.87; 822812.56, 1999405.10; 822813.28, 1999403.27; 822813.88, 1999401.40; 822814.36, 1999399.49; 822814.71, 1999397.56; 822814.94, 1999395.61; 822815.03, 1999393.64; 822815.04, 1999393.56; 822815.59, 1999353.44; 822834.40, 1999326.93; 822859.47, 1999302.21; 822860.64, 1999300.99; 822861.91, 1999299.49; 822863.08, 1999297.91; 822864.14, 1999296.26; 822865.10, 1999294.55; 822865.94, 1999292.77; 822866.66, 1999290.94; 822867.26, 1999289.07; 822867.74, 1999287.17; 822868.09, 1999285.23; 822868.32, 1999283.28; 822868.41, 1999281.32; 822868.42, 1999280.68; 822868.13, 1999220.49; 822872.70, 1999182.15; 822872.81, 1999181.05; 822872.89, 1999179.72; 822875.48, 1999111.28; 822875.49, 1999110.64; 822875.46, 1999108.68; 822875.30, 1999106.72; 822875.01, 1999104.77; 822874.60, 1999102.85; 822874.06, 1999100.96; 822873.40, 1999099.11; 822873.18, 1999098.57; 822846.96, 1999035.79; 822846.40, 1999034.52; 822845.50, 1999032.78; 822844.49, 1999031.09; 822843.37, 1999029.48; 822842.15, 1999027.94; 822840.83, 1999026.48; 822840.54, 1999026.18; 822738.32, 1998923.47; 822737.20, 1998922.41; 822735.70, 1998921.14; 822734.13, 1998919.96; 822733.36, 1998919.47; 822704.39, 1998865.19; 822704.15, 1998864.75; 822703.14, 1998863.06; 822702.02, 1998861.45; 822700.80, 1998859.91; 822699.48, 1998858.45; 822698.06, 1998857.09; 822696.57, 1998855.82; 822694.99, 1998854.64; 822693.34, 1998853.58; 822692.56, 1998853.13; 822636.47, 1998821.73; 822635.52, 1998821.22; 822633.75, 1998820.38; 822631.92, 1998819.66; 822630.05, 1998819.06; 822628.14, 1998818.58; 822626.59, 1998818.29; 822554.91, 1998806.70; 822554.53, 1998806.64; 822552.57, 1998806.41; 822550.61, 1998806.31; 822548.65, 1998806.35; 822546.69, 1998806.51; 822544.75, 1998806.80; 822542.83, 1998807.21; 822540.94, 1998807.75; 822539.09, 1998808.41; 822537.28, 1998809.19; 822535.53, 1998810.09; 822533.85, 1998811.10; 822532.23, 1998812.22; 822530.69, 1998813.44; 822529.24, 1998814.76; 822527.87, 1998816.17; 822526.60, 1998817.67; 822525.43, 1998819.25; 822524.36, 1998820.90; 822523.41, 1998822.61; 822522.57, 1998824.39; 822521.85, 1998826.22; 822521.25, 1998828.09; 822520.77, 1998829.99; 822520.42, 1998831.93; 822520.19, 1998833.88; 822520.09, 1998835.84; 822752.71, 1999023.06; 822781.60, 1999297.57; 822786.94, 1999290.03; 822787.92, 1999288.73; 822789.19, 1999287.23; 822790.36, 1999286.02; 822808.30, 1999268.32; 822808.06, 1999218.93; 822808.07, 1999218.29; 822808.17, 1999216.32; 822808.28, 1999215.22; 822812.93, 1999176.24; 822815.22, 1999115.62; 822793.82, 1999064.36; 822752.71, 1999023.06.

(iii) Note: The map depicting Unit 11 is provided at paragraph (17)(iii) of this entry.

(17) Unit 12: Guayabo, Yabucoa, Puerto Rico.

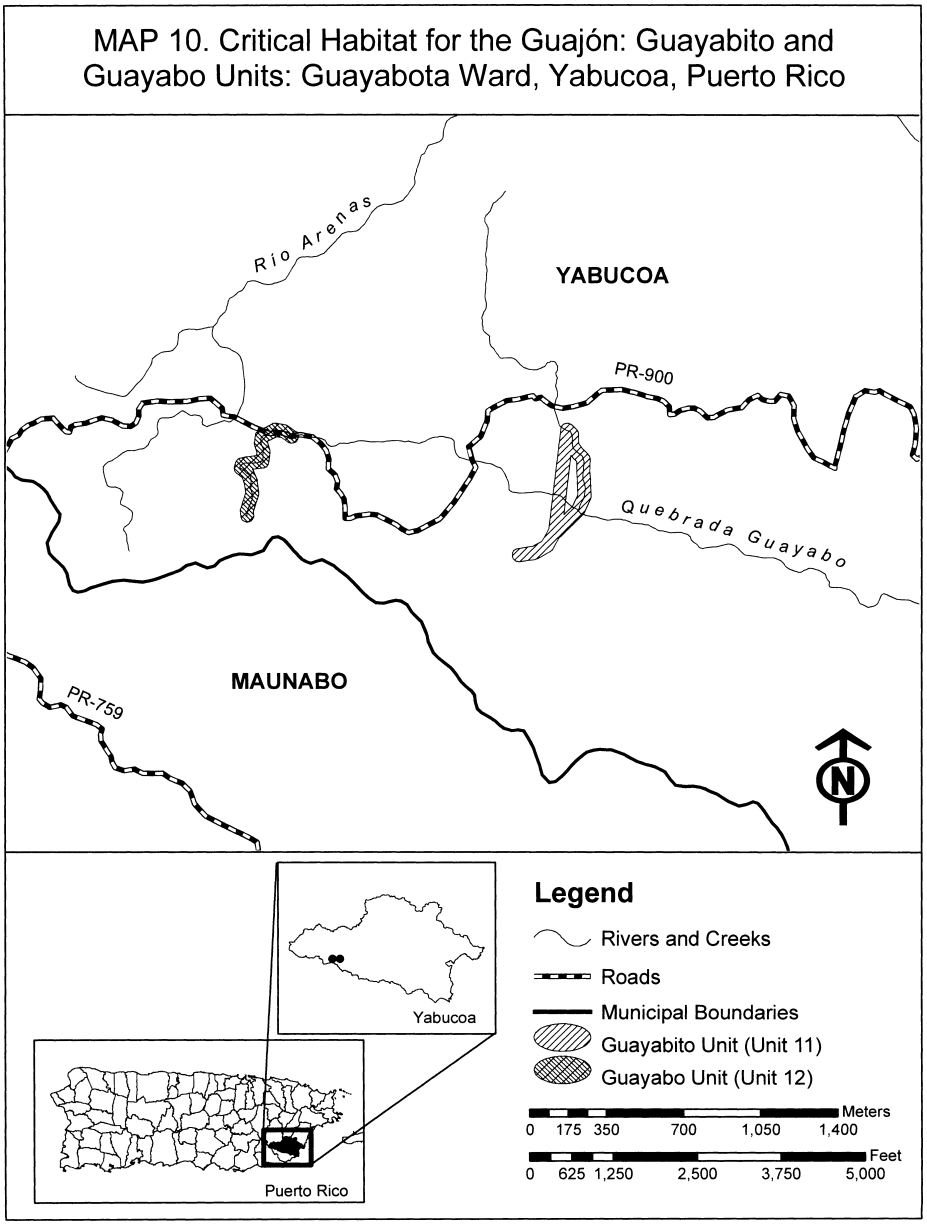
(i) *General Description:* Unit 12 consists of approximately 9.8 ac (3.9 ha) within Guayabota Ward, Yabucoa, crossing Road PR–900, north of the Maunabo boundary, and about 3,025 ft (922 m) west of Unit 11.

(ii) *Coordinates:* From Yabucoa USGS 1:20,000 quadrangle map. Unit 12 is bounded by the following UTM 19 NAD 83 coordinates (E, N):

821249.15, 1999215.02; 821249.18, 1999216.98; 821249.34, 1999218.94; 821249.63, 1999220.88; 821250.04, 1999222.80; 821250.19, 1999223.36; 821255.15, 1999241.68; 821255.54, 1999243.01; 821256.21, 1999244.86; 821256.99, 1999246.67; 821257.88, 1999248.41; 821258.89, 1999250.10; 821260.01, 1999251.72; 821261.23, 1999253.25; 821262.55, 1999254.71; 821263.97, 1999256.08; 821265.46, 1999257.35; 821267.04, 1999258.52; 821268.69, 1999259.58; 821270.41, 1999260.54; 821272.19, 1999261.38; 821274.01, 1999262.10; 821275.88, 1999262.70; 821276.77, 1999262.94; 821304.05, 1999269.84; 821305.07, 1999270.08; 821307.00, 1999270.43; 821308.01, 1999270.56; 821349.11, 1999275.25; 821350.61, 1999289.71; 821339.99, 1999325.55; 821339.91, 1999325.83; 821339.43, 1999327.74; 821339.08, 1999329.67; 821338.85, 1999331.62; 821338.76, 1999333.59;

821338.79, 1999335.55; 821338.95, 1999337.51; 821338.97, 1999337.72; 821342.49, 1999366.45; 821342.75, 1999368.18; 821343.16, 1999370.10; 821343.70, 1999371.99; 821344.36, 1999373.84; 821345.15, 1999375.64; 821346.04, 1999377.39; 821347.05, 1999379.08; 821348.17, 1999380.69; 821349.39, 1999382.23; 821350.71, 1999383.69; 821352.12, 1999385.05; 821353.62, 1999386.32; 821355.20, 1999387.50; 821356.85, 1999388.56; 821358.57, 1999389.51; 821359.49, 1999389.97; 821386.84, 1999402.86; 821418.08, 1999420.93; 821419.39, 1999421.65; 821421.17, 1999422.49; 821423.00, 1999423.21; 821424.87, 1999423.81; 821426.77, 1999424.29; 821428.71, 1999424.64; 821430.66, 1999424.86; 821432.62, 1999424.96; 821434.58, 1999424.93; 821436.54, 1999424.77; 821437.64, 1999424.62; 821476.83, 1999418.65; 821477.68, 1999418.51; 821479.60, 1999418.09; 821481.49, 1999417.55; 821483.34, 1999416.89; 821485.14, 1999416.11; 821486.89, 1999415.21; 821488.57, 1999414.20; 821488.70, 1999414.12; 821525.83, 1999389.92; 821527.32, 1999388.88; 821528.86, 1999387.66; 821530.31, 1999386.34; 821531.68, 1999384.93; 821532.95, 1999383.43; 821534.12, 1999381.85; 821535.19, 1999380.20; 821536.14, 1999378.48; 821536.98, 1999376.71; 821537.70, 1999374.88; 821538.30, 1999373.01; 821538.78, 1999371.10; 821539.13, 1999369.17; 821539.36, 1999367.22; 821539.45, 1999365.26; 821539.42, 1999363.29; 821539.26, 1999361.33; 821538.97, 1999359.39; 821538.56, 1999357.47; 821538.02, 1999355.58; 821537.36, 1999353.73; 821536.58, 1999351.93; 821535.68, 1999350.18; 821534.67, 1999348.49; 821533.55, 1999346.88; 821532.33, 1999345.34; 821531.01, 1999343.88; 821529.60, 1999342.52; 821528.10, 1999341.24; 821526.52, 1999340.07; 821524.87, 1999339.01; 821523.15, 1999338.05; 821521.38, 1999337.21; 821519.55, 1999336.49; 821517.68, 1999335.89; 821515.77, 1999335.41; 821513.84, 1999335.06; 821511.89, 1999334.84; 821509.93, 1999334.74; 821507.96, 1999334.77; 821506.00, 1999334.93; 821504.06, 1999335.22; 821502.14, 1999335.64; 821500.25, 1999336.17; 821498.40, 1999336.84; 821496.60, 1999337.62; 821494.85, 1999338.52; 821493.16, 1999339.53; 821493.04, 1999339.61; 821461.35, 1999360.26; 821439.02, 1999363.66; 821415.82, 1999350.25; 821414.50, 1999349.53; 821413.59, 1999349.08; 821400.08, 1999342.71; 821399.34, 1999336.63; 821409.88, 1999301.06; 821409.96, 1999300.78; 821410.44, 1999298.88; 821410.79, 1999296.94; 821411.01, 1999294.99; 821411.11, 1999293.03; 821411.08, 1999291.06; 821410.95, 1999289.44; 821406.35, 1999245.05; 821406.32, 1999244.72; 821406.03, 1999242.78; 821405.62, 1999240.85; 821405.08, 1999238.97; 821404.41, 1999237.12; 821403.63, 1999235.31; 821402.74, 1999233.56; 821401.73, 1999231.88; 821400.61, 1999230.26; 821399.39, 1999228.72; 821398.07, 1999227.27; 821396.65, 1999225.90; 821395.16, 1999224.63; 821393.58, 1999223.46; 821391.93, 1999222.39; 821390.21, 1999221.44; 821388.43, 1999220.60; 821386.61, 1999219.88; 821384.74, 1999219.28; 821382.83, 1999218.80; 821380.90, 1999218.45; 821379.89, 1999218.32; 821331.62, 1999212.81; 821331.68, 1999212.76; 821333.04, 1999211.35; 821334.31, 1999209.85; 821335.48, 1999208.27; 821336.55, 1999206.62; 821337.50, 1999204.90; 821338.34, 1999203.13; 821338.95, 1999201.61; 821353.85, 1999161.41; 821353.96, 1999161.09; 821354.56, 1999159.22; 821355.04, 1999157.32; 821355.39, 1999155.41; 821362.58, 1999107.28; 821362.58, 1999107.25; 821362.80, 1999105.30; 821362.90, 1999103.34; 821362.87, 1999101.37; 821362.71, 1999099.41; 821362.42, 1999097.47; 821362.01, 1999095.55; 821361.72, 1999094.50; 821339.65, 1999018.19; 821340.99, 1999002.89; 821341.00, 1999002.72; 821341.10, 1999000.76; 821341.07, 1998998.79; 821340.91, 1998996.83; 821340.62, 1998994.89; 821340.20, 1998992.97; 821339.66, 1998991.08; 821339.00, 1998989.23; 821338.22, 1998987.43; 821337.32, 1998985.68; 821336.31, 1998983.99; 821335.20, 1998982.38; 821333.97, 1998980.84; 821332.66, 1998979.38; 821331.24, 1998978.02; 821329.75, 1998976.75; 821328.17, 1998975.58; 821326.52, 1998974.51; 821324.80, 1998973.56; 821323.02, 1998972.72; 821321.19, 1998971.99; 821319.32, 1998971.39; 821317.42, 1998970.91; 821315.49, 1998970.56; 821313.53, 1998970.34; 821311.57, 1998970.24; 821309.61, 1998970.27; 821307.65, 1998970.43; 821305.70, 1998970.72; 821303.78, 1998971.14; 821301.89, 1998971.68; 821300.04, 1998972.34; 821298.24, 1998973.12; 821296.49, 1998974.02; 821294.81, 1998975.03; 821293.19, 1998976.15; 821291.65, 1998977.37; 821290.20, 1998978.69; 821288.83, 1998980.10; 821287.56, 1998981.60; 821286.39, 1998983.17; 821285.32, 1998984.83; 821284.37, 1998986.54; 821283.53, 1998988.32; 821282.81, 1998990.15; 821282.21, 1998992.02; 821281.73, 1998993.92; 821281.38, 1998995.86; 821281.17, 1998997.64; 821279.33, 1999018.53; 821279.32, 1999018.70; 821279.22, 1999020.66; 821279.26, 1999022.62; 821279.42, 1999024.58; 821279.70, 1999026.53; 821280.12, 1999028.45; 821280.40, 1999029.50; 821302.21, 1999104.89; 821296.46, 1999143.46; 821285.64, 1999172.65; 821260.86, 1999191.71; 821259.75, 1999192.61; 821258.29, 1999193.93; 821256.92, 1999195.35; 821255.65, 1999196.84; 821254.48, 1999198.42; 821253.42, 1999200.07; 821252.46, 1999201.79; 821251.62, 1999203.57; 821250.90, 1999205.39; 821250.30, 1999207.26; 821249.82, 1999209.17; 821249.47, 1999211.10; 821249.25, 1999213.06; 821249.15, 1999215.02.

(iii) Note: Map of Units 11 and 12 (Map 10) follows:



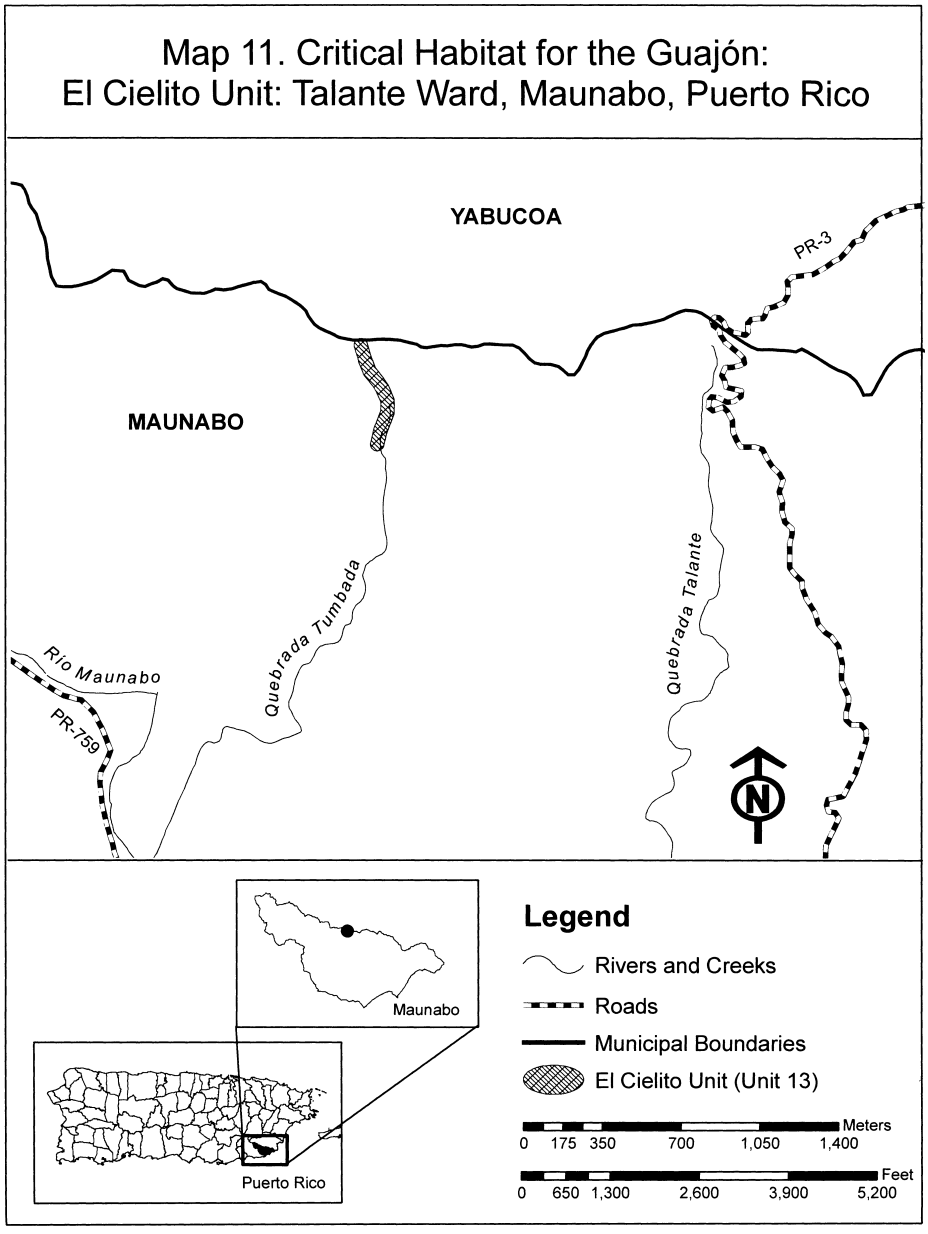
(18) Unit 13: El Cielito, Maunabo, Puerto Rico.

(i) *General Description:* Unit 13 consists of approximately 7.84 ac (3.17 ha), between the municipal boundary of Yabucoa to the north, PR–759 to the south and west, and PR–3 to the east, within Talante Ward, Maunabo.

(ii) *Coordinates:* From Yabucoa USGS 1:20,000 quadrangle map. Unit 13 bounded by the following UTM 19 NAD 83 coordinates (E, N):

825982.02, 1996690.65; 825982.05, 1996692.62; 826119.75, 1996238.29; 826119.08, 1996236.44;
825982.22, 1996694.58; 825982.51, 1996696.52; 826118.30, 1996234.64; 826117.39, 1996232.89;
825982.93, 1996698.44; 825983.48, 1996700.33; 826116.38, 1996231.21; 826115.26, 1996229.60;
825984.14, 1996702.18; 825984.93, 1996703.98; 826114.03, 1996228.06; 826112.71, 1996226.61;
825985.83, 1996705.72; 825986.85, 1996707.40; 826111.29, 1996225.25; 826109.79, 1996223.98;
825987.97, 1996709.02; 825989.19, 1996710.55; 826108.21, 1996222.81; 826106.56, 1996221.75;
825990.52, 1996712.01; 825991.93, 1996713.37; 826104.84, 1996220.80; 826103.06, 1996219.97;
825993.43, 1996714.64; 825995.01, 1996715.80; 826101.23, 1996219.25; 826099.36, 1996218.65;
825996.67, 1996716.86; 825998.39, 1996717.81; 826097.45, 1996218.18; 826095.51, 1996217.83;
826000.17, 1996718.65; 826002.00, 1996719.37; 826093.56, 1996217.61; 826091.60, 1996217.52;
826003.87, 1996719.96; 826005.78, 1996720.44; 826089.63, 1996217.56; 826087.68, 1996217.72;
826007.71, 1996720.78; 826009.66, 1996721.00; 826085.73, 1996218.02; 826083.81, 1996218.44;
826011.63, 1996721.09; 826013.59, 1996721.06; 826081.93, 1996218.98; 826080.08, 1996219.65;
826015.55, 1996720.89; 826017.49, 1996720.60; 826078.28, 1996220.43; 826076.53, 1996221.34;
826019.41, 1996720.18; 826021.30, 1996719.63; 826074.85, 1996222.35; 826073.24, 1996223.47;
826023.15, 1996718.97; 826024.95, 1996718.18; 826071.70, 1996224.70; 826070.25, 1996226.02;
826026.69, 1996717.28; 826028.38, 1996716.27; 826068.88, 1996227.44; 826067.62, 1996228.94;
826029.99, 1996715.14; 826031.53, 1996713.92; 826066.45, 1996230.52; 826065.39, 1996232.17;
826032.98, 1996712.59; 826034.34, 1996711.18; 826064.44, 1996233.89; 826063.60, 1996235.67;
826035.61, 1996709.68; 826036.77, 1996708.10; 826062.89, 1996237.50; 826062.29, 1996239.37;
826037.84, 1996706.44; 826038.79, 1996704.72; 826061.82, 1996241.28; 826061.47, 1996243.21;
826039.62, 1996702.94; 826040.34, 1996701.11; 826061.25, 1996245.17; 826061.16, 1996247.13;
826040.80, 1996699.72; 826058.80, 1996639.86; 826061.20, 1996249.09; 826061.36, 1996251.05;
826064.87, 1996626.21; 826065.02, 1996625.87; 826061.65, 1996253.00; 826061.83, 1996253.89;
826065.62, 1996624.39; 826077.68, 1996591.67; 826074.31, 1996311.58; 826074.55, 1996312.60;
826117.27, 1996543.05; 826117.56, 1996542.70; 826075.09, 1996314.49; 826075.48, 1996315.62;
826118.72, 1996541.12; 826119.34, 1996540.18; 826105.53, 1996397.10; 826104.99, 1996436.39;
826137.43, 1996511.67; 826137.87, 1996510.96; 826085.46, 1996481.49; 826069.59, 1996506.50;
826138.82, 1996509.24; 826139.63, 1996507.52; 826027.95, 1996557.62; 826027.67, 1996557.98;
826162.49, 1996454.74; 826162.51, 1996454.69; 826026.50, 1996559.56; 826025.44, 1996561.21;
826163.23, 1996452.86; 826163.82, 1996450.98; 826024.49, 1996562.93; 826023.65, 1996564.71;
826164.30, 1996449.08; 826164.64, 1996447.14; 826023.06, 1996566.20; 826009.61, 1996602.69;
826164.86, 1996445.19; 826164.96, 1996443.23; 826003.16, 1996617.18; 826003.01, 1996617.52;
826165.66, 1996392.36; 826165.62, 1996390.40; 826002.29, 1996619.34; 826001.84, 1996620.74;
826165.46, 1996388.44; 826165.16, 1996386.49; 825983.29, 1996682.42; 825983.15, 1996682.90;
826164.74, 1996384.58; 826164.20, 1996382.69; 825982.68, 1996684.80; 825982.33, 1996686.74;
826163.81, 1996381.55; 826132.56, 1996296.82; 825982.11, 1996688.69; 825982.02, 1996690.65.
826120.53, 1996241.20; 826120.29, 1996240.18;

(iii) Note: Map of Unit 13 (Map 11) follows:



(19) Unit 14: Verraco, San Lorenzo, Puerto Rico.

(i) *General Description:* Unit 14 consists of approximately 8.9 ac (3.6 ha), between PR–181 to the north and west, Río Grande de Loíza to the east and south, and the municipal boundary of Yabucoa to the south, within Espino Ward, San Lorenzo.

(ii) *Coordinates:* From Yabucoa and Patillas USGS 1:20,000 quadrangle maps. Unit 14 bounded by the following UTM 19 NAD 83 coordinates (E, N):

818021.78, 2003743.38; 818021.82, 2003745.35; 818021.98, 2003747.31; 818022.27, 2003749.25; 818022.69, 2003751.17; 818023.24, 2003753.06; 818023.90, 2003754.90; 818024.69, 2003756.71; 818025.59, 2003758.45; 818026.61, 2003760.13; 818027.41, 2003761.31; 818041.40, 2003780.81; 818041.72, 2003781.25; 818042.95, 2003782.78; 818044.27, 2003784.24; 818045.68, 2003785.60; 818047.19, 2003786.87; 818048.77, 2003788.03; 818050.42, 2003789.09; 818051.64, 2003789.78; 818072.66, 2003801.02; 818073.16, 2003801.29; 818074.94, 2003802.12; 818076.77, 2003802.84; 818078.64, 2003803.44; 818080.55, 2003803.91; 818082.48, 2003804.26; 818084.44, 2003804.48; 818086.40, 2003804.57; 818088.36, 2003804.53; 818089.35, 2003804.46; 818118.63, 2003801.99; 818119.61, 2003801.89; 818121.55, 2003801.60; 818123.47, 2003801.18; 818125.20, 2003800.69; 818179.90, 2003783.29; 818180.06, 2003783.24; 818181.91, 2003782.58; 818183.71, 2003781.79; 818183.86, 2003781.72; 818240.72, 2003754.27; 818242.32, 2003753.44; 818244.00, 2003752.42; 818245.61, 2003751.30; 818247.15, 2003750.08; 818248.60, 2003748.75; 818249.96, 2003747.34; 818251.23, 2003745.84; 818252.40, 2003744.26; 818253.46, 2003742.60; 818254.41, 2003740.88; 818255.24, 2003739.10; 818255.96, 2003737.28; 818256.56, 2003735.40; 818257.03, 2003733.50; 818257.38, 2003731.56; 818257.60, 2003729.61; 818257.69, 2003727.65; 818257.65, 2003725.68; 818257.49, 2003723.73; 818257.19, 2003721.78; 818256.77, 2003719.86; 818256.23, 2003717.97; 818255.56, 2003716.13; 818254.78, 2003714.33; 818253.88, 2003712.58; 818252.86, 2003710.90; 818251.74, 2003709.28; 818250.51, 2003707.75; 818249.19, 2003706.30; 818247.78, 2003704.93; 818246.27, 2003703.67; 818244.69, 2003702.50; 818243.04, 2003701.44; 818241.32, 2003700.49; 818239.54, 2003699.65; 818237.71, 2003698.93; 818235.84, 2003698.34; 818233.93, 2003697.87; 818232.00, 2003697.52; 818230.05, 2003697.30; 818228.08, 2003697.21; 818226.12, 2003697.24; 818224.16, 2003697.41; 818222.22, 2003697.70; 818220.30, 2003698.12; 818218.41, 2003698.67; 818216.56, 2003699.33; 818214.76, 2003700.12; 818214.61, 2003700.19; 818187.94, 2003713.06; 818216.83, 2003685.69; 818233.41, 2003672.94; 818247.97, 2003666.94; 818249.43, 2003666.29; 818251.18, 2003665.38; 818252.86, 2003664.37; 818254.47, 2003663.25; 818256.01, 2003662.02; 818257.46, 2003660.70; 818258.83, 2003659.29; 818260.09, 2003657.78; 818261.26, 2003656.20; 818262.32, 2003654.55; 818263.27, 2003652.83; 818264.11, 2003651.05; 818264.82, 2003649.22; 818265.42, 2003647.35; 818265.89, 2003645.44; 818266.24, 2003643.51; 818266.46, 2003641.56; 818266.55, 2003639.59; 818266.51, 2003637.63; 818266.35, 2003635.67; 818266.06, 2003633.73; 818265.64, 2003631.81; 818265.09, 2003629.92; 818264.43, 2003628.07; 818263.64, 2003626.27; 818262.74, 2003624.53; 818261.72, 2003622.84; 818260.60, 2003621.23; 818259.38, 2003619.69; 818258.05, 2003618.24; 818256.64, 2003616.88; 818255.14, 2003615.61; 818253.56, 2003614.44; 818251.90, 2003613.38; 818250.18, 2003612.43; 818248.40, 2003611.60; 818246.57, 2003610.88; 818244.70, 2003610.28; 818242.80, 2003609.81; 818240.86, 2003609.46; 818236.95, 2003609.15; 818236.87, 2003608.20; 818237.94, 2003604.42; 818238.50, 2003600.54; 818238.56, 2003596.61; 818238.10, 2003592.71; 818237.13, 2003588.90; 818235.68, 2003585.25; 818233.77, 2003581.82; 818231.42, 2003578.67; 818229.24, 2003576.35; 818226.33, 2003573.72; 818223.09, 2003571.49; 818219.59, 2003569.70; 818215.89, 2003568.39; 818212.05, 2003567.57; 818208.14, 2003567.26; 818204.21, 2003567.46; 818200.35, 2003568.17; 818196.62, 2003569.38; 818193.07, 2003571.07; 818189.77, 2003573.21; 818186.87, 2003575.67; 818118.47, 2003628.50; 818116.33, 2003630.51; 818054.31, 2003681.68; 818052.67, 2003682.82; 818049.68, 2003685.37; 818047.05, 2003688.28; 818030.14, 2003710.85; 818028.38, 2003713.48; 818026.59, 2003716.97; 818025.28, 2003720.68; 818024.52, 2003724.15; 818022.09, 2003739.47; 818021.78, 2003743.38;

(iii) Note: The map depicting Unit 14 is provided at paragraph (20)(iii) of this entry.

(20) Unit 15: Cueva Marcela Unit, San Lorenzo, Puerto Rico.

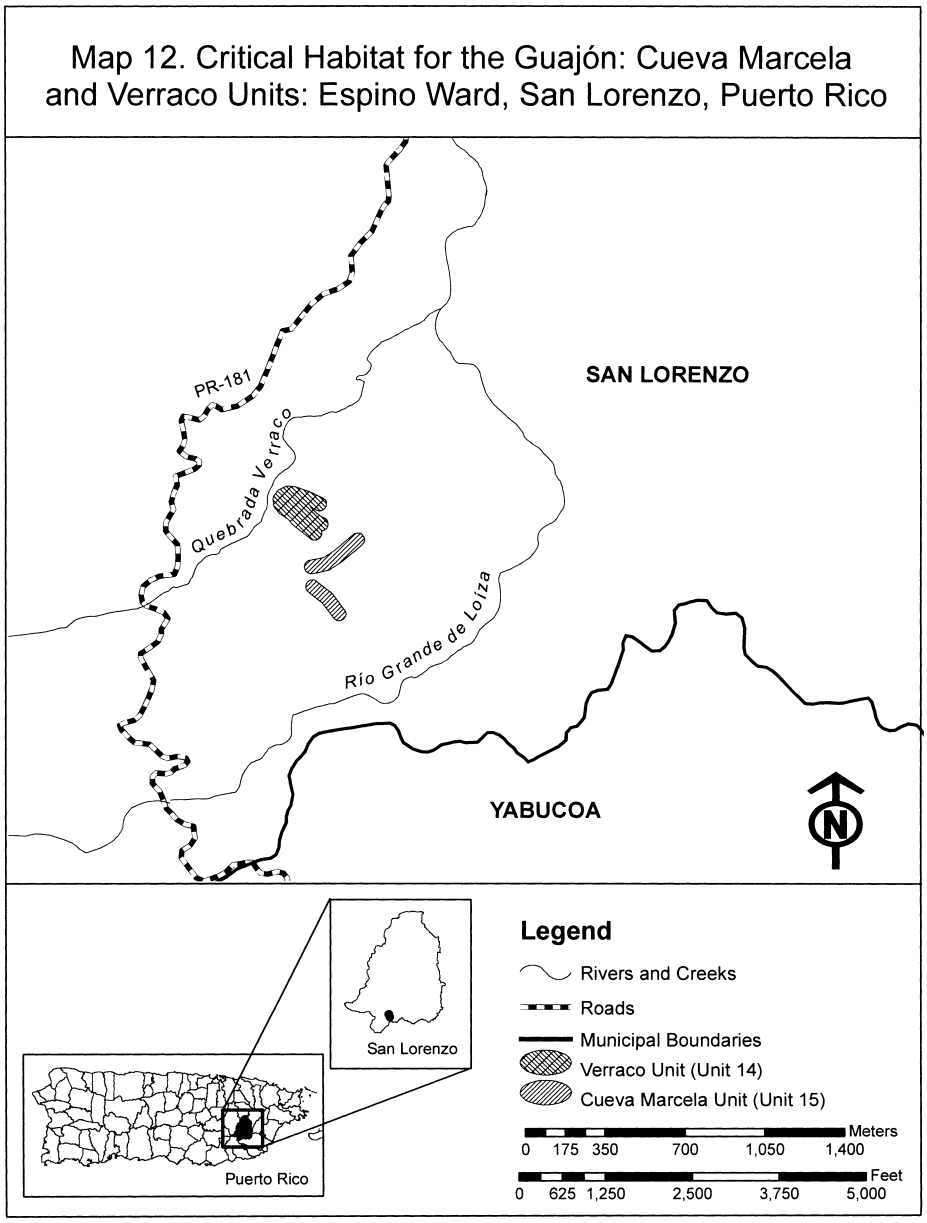
(i) *General Description*: Unit 15 consists of approximately 7.47 ac (3.02 ha), between PR–181 and Quebrada Verraco to the north, PR–181 to the west, and Río Grande de Loíza and the municipal boundary of Yabucoa to the south, within Espino Ward, San Lorenzo.

(ii) *Coordinates*: From Yabucoa and Patillas USGS 1:20,000 quadrangle maps. Unit 15 bounded by the following UTM 19 NAD 83 coordinates (E, N):

818171.51, 2003361.29; 818171.55, 2003363.25; 818171.72, 2003365.21; 818172.01, 2003367.15; 818172.43, 2003369.07; 818172.97, 2003370.96; 818173.64, 2003372.81; 818174.42, 2003374.61; 818175.33, 2003376.36; 818176.34, 2003378.04; 818177.46, 2003379.65; 818178.69, 2003381.19; 818180.01, 2003382.64; 818181.43, 2003384.00; 818182.93, 2003385.27; 818184.51, 2003386.44; 818186.16, 2003387.50; 818187.88, 2003388.45; 818189.66, 2003389.28; 818191.49, 2003390.00; 818193.36, 2003390.60; 818195.27, 2003391.07; 818197.20, 2003391.42; 818199.16, 2003391.64; 818201.12, 2003391.73; 818203.08, 2003391.69; 818205.04, 2003391.53; 818206.98, 2003391.23; 818208.90, 2003390.81; 818210.79, 2003390.27; 818212.64, 2003389.60; 818214.44, 2003388.82;

818216.19, 2003387.92; 818217.87, 2003386.90; 818219.48, 2003385.78; 818219.89, 2003385.47; 818287.51, 2003333.26; 818288.65, 2003332.34; 818290.10, 2003331.02; 818291.46, 2003329.60; 818292.73, 2003328.10; 818293.05, 2003327.68; 818343.46, 2003261.48; 818344.31, 2003260.32; 818345.37, 2003258.66; 818346.32, 2003256.94; 818347.15, 2003255.17; 818347.87, 2003253.34; 818348.47, 2003251.46; 818348.94, 2003249.56; 818349.29, 2003247.62; 818349.51, 2003245.67; 818349.60, 2003243.71; 818349.56, 2003241.74; 818349.40, 2003239.79; 818349.10, 2003237.84; 818348.68, 2003235.92; 818348.14, 2003234.03; 818347.47, 2003232.19; 818346.69, 2003230.39; 818345.79, 2003228.64; 818344.77, 2003226.96; 818343.65, 2003225.34; 818342.42, 2003223.81; 818341.10, 2003222.36; 818339.69, 2003220.99; 818338.18, 2003219.73; 818336.60, 2003218.56; 818334.95, 2003217.50; 818333.23, 2003216.55; 818331.45, 2003215.71; 818329.62, 2003214.99; 818327.75, 2003214.40; 818325.84, 2003213.93; 818323.91, 2003213.58; 818321.96, 2003213.36; 818319.99, 2003213.27; 818318.03, 2003213.30; 818316.07, 2003213.47; 818314.13, 2003213.76; 818312.21, 2003214.18; 818310.32, 2003214.73; 818308.47, 2003215.39; 818306.67, 2003216.18; 818304.93, 2003217.08; 818303.24, 2003218.09; 818301.63, 2003219.22; 818300.09, 2003220.44; 818298.64, 2003221.77; 818297.28, 2003223.18; 818296.01, 2003224.68; 818295.69, 2003225.10; 818247.68, 2003288.15; 818183.19, 2003337.94; 818182.05, 2003338.86; 818180.60, 2003340.18; 818179.24, 2003341.60; 818177.97, 2003343.10; 818176.81, 2003344.68; 818175.74, 2003346.33; 818174.79, 2003348.05; 818173.96, 2003349.83; 818173.24, 2003351.66; 818172.64, 2003353.53; 818172.17, 2003355.44; 818171.82, 2003357.37; 818171.60, 2003359.33; 818171.51, 2003361.29; 818164.80, 2003448.26; 818164.84, 2003450.23; 818165.01, 2003452.18; 818165.30, 2003454.13; 818165.72, 2003456.05; 818166.26, 2003457.93; 818166.93, 2003459.78; 818167.72, 2003461.58; 818168.62, 2003463.33; 818169.63, 2003465.01; 818170.75, 2003466.62; 818171.98, 2003468.16; 818173.30, 2003469.61; 818174.72, 2003470.98; 818176.22, 2003472.24; 818177.80, 2003473.41; 818179.45, 2003474.47; 818181.17, 2003475.42; 818182.95, 2003476.26; 818184.78, 2003476.97; 818186.65, 2003477.57; 818188.15, 2003477.95; 818251.08, 2003492.29; 818296.61, 2003523.57; 818376.74, 2003594.09; 818377.97, 2003595.11; 818379.55, 2003596.27; 818381.20, 2003597.34; 818382.92, 2003598.29; 818384.70, 2003599.12; 818386.53, 2003599.84; 818388.40, 2003600.44; 818390.31, 2003600.91; 818392.24, 2003601.26; 818394.20, 2003601.48; 818396.16, 2003601.57; 818398.12, 2003601.53; 818400.08, 2003601.36; 818402.02, 2003601.07; 818403.94, 2003600.65; 818405.83, 2003600.11; 818407.68, 2003599.44; 818409.48, 2003598.66; 818411.23, 2003597.75; 818412.91, 2003596.74; 818414.52, 2003595.62; 818416.06, 2003594.39; 818417.51, 2003593.07; 818418.87, 2003591.65; 818420.14, 2003590.15; 818421.31, 2003588.57; 818422.37, 2003586.92; 818423.32, 2003585.20; 818424.15, 2003583.42; 818424.87, 2003581.59; 818425.47, 2003579.72; 818425.94, 2003577.81; 818426.29, 2003575.88; 818426.51, 2003573.92; 818426.60, 2003571.96; 818426.56, 2003570.00; 818426.40, 2003568.04; 818426.10, 2003566.10; 818425.68, 2003564.18; 818425.14, 2003562.29; 818424.47, 2003560.44; 818423.69, 2003558.64; 818422.79, 2003556.89; 818421.77, 2003555.21; 818420.65, 2003553.60; 818419.42, 2003552.06; 818418.10, 2003550.61; 818416.69, 2003549.25; 818416.41, 2003549.00; 818334.93, 2003477.30; 818333.70, 2003476.28; 818332.12, 2003475.11; 818332.09, 2003475.09; 818280.35, 2003439.55; 818278.72, 2003438.50; 818277.00, 2003437.55; 818275.22, 2003436.72; 818273.39, 2003436.00; 818271.52, 2003435.40; 818270.02, 2003435.02; 818201.50, 2003419.40; 818201.09, 2003419.31; 818199.16, 2003418.97; 818197.21, 2003418.75; 818195.25, 2003418.66; 818193.28, 2003418.69; 818191.32, 2003418.86; 818189.38, 2003419.15; 818187.46, 2003419.57; 818185.57, 2003420.11; 818183.72, 2003420.78; 818181.92, 2003421.57; 818180.18, 2003422.47; 818178.49, 2003423.48; 818176.88, 2003424.61; 818175.35, 2003425.83; 818173.89, 2003427.15; 818172.53, 2003428.57; 818171.26, 2003430.07; 818170.10, 2003431.65; 818169.04, 2003433.31; 818168.09, 2003435.03; 818167.25, 2003436.80; 818166.53, 2003438.63; 818165.94, 2003440.50; 818165.46, 2003442.41; 818165.12, 2003444.35; 818164.90, 2003446.30; 818164.80, 2003448.26;

(iii) Note: Map of Units 14 and 15 (Map 12) follows:



(21) Unit 16: Ceiba Sur Unit, Juncos, Puerto Rico.

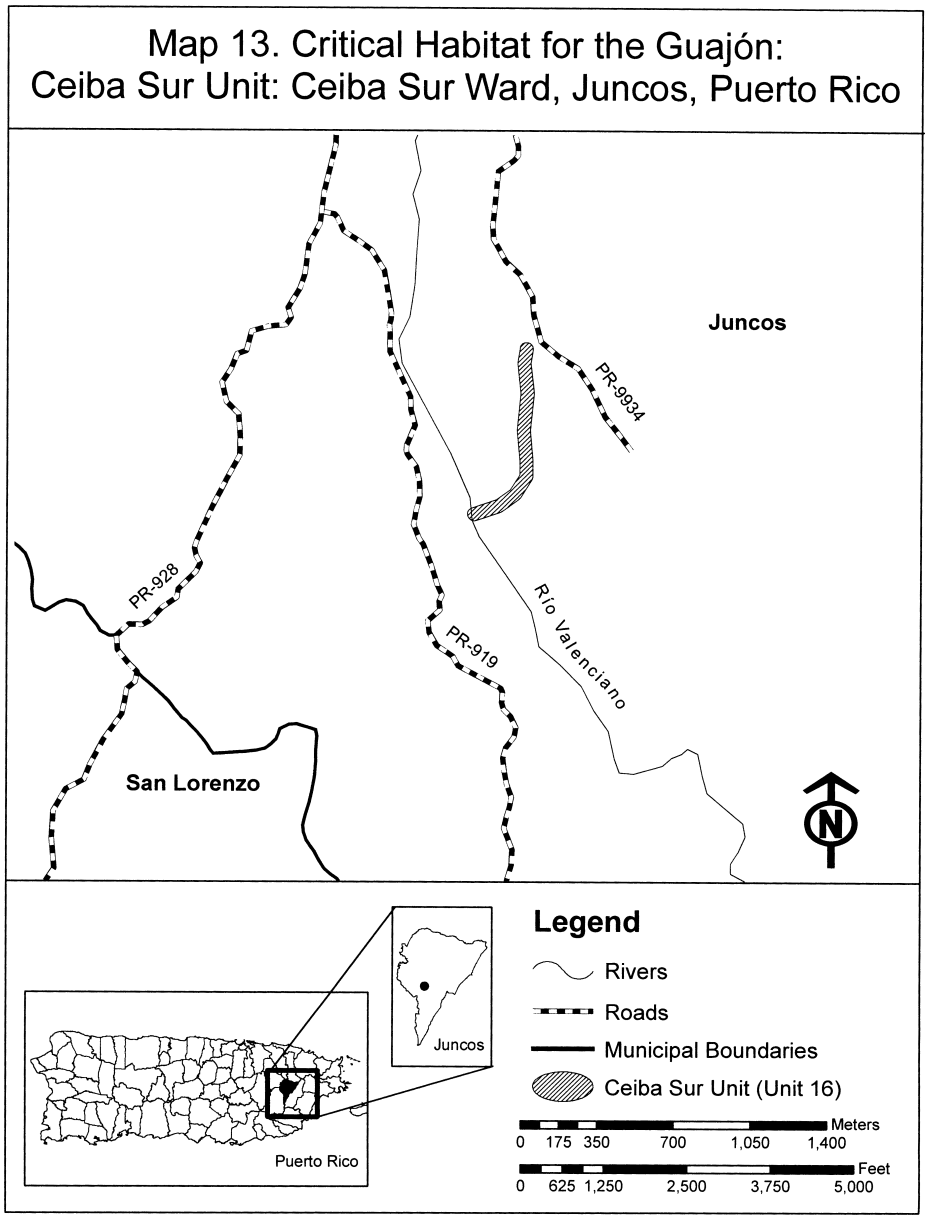
(i) *General Description:* Unit 16 consists of approximately 13.92 ac (5.63 ha) between Road PR–9934 to the east, and Road PR–919 to the west within Ceiba Sur Ward, Juncos.

(ii) *Coordinates:* From Juncos USGS 1:20,000 quadrangle map. Unit 16 bounded by the following UTM 19 NAD 83 coordinates (E, N):

825495.74, 2015729.02; 825495.78, 2015730.98; 825495.94, 2015732.94; 825496.23, 2015734.88; 825496.65, 2015736.80; 825497.20, 2015738.69;

825497.86, 2015740.54; 825498.65, 2015742.34; 825781.05, 2016494.84; 825781.27, 2016492.89;
825499.55, 2015744.08; 825500.57, 2015745.77; 825781.36, 2016490.93; 825781.32, 2016488.96;
825501.69, 2015747.38; 825502.91, 2015748.92; 825781.16, 2016487.01; 825781.07, 2016486.36;
825504.24, 2015750.37; 825505.65, 2015751.73; 825772.67, 2016426.13; 825788.89, 2016292.45;
825507.15, 2015753.00; 825508.73, 2015754.17; 825789.01, 2016291.22; 825789.11, 2016289.26;
825510.39, 2015755.23; 825512.11, 2015756.18; 825789.07, 2016287.29; 825788.99, 2016286.22;
825513.89, 2015757.01; 825515.50, 2015757.66; 825774.40, 2016119.05; 825788.38, 2015981.81;
825623.97, 2015797.10; 825686.46, 2015843.70; 825788.44, 2015981.16; 825788.53, 2015979.19;
825729.39, 2015913.29; 825728.50, 2015977.04; 825789.56, 2015905.38; 825789.53, 2015903.42;
825714.36, 2016115.79; 825714.30, 2016116.45; 825789.36, 2015901.46; 825789.07, 2015899.52;
825714.21, 2016118.41; 825714.25, 2016120.38; 825788.65, 2015897.60; 825788.10, 2015895.71;
825714.32, 2016121.45; 825728.89, 2016288.33; 825787.44, 2015893.86; 825786.65, 2015892.06;
825712.58, 2016422.79; 825712.46, 2016424.02; 825785.75, 2015890.32; 825785.09, 2015889.20;
825712.36, 2016425.98; 825712.40, 2016427.95; 825734.57, 2015807.29; 825734.21, 2015806.72;
825712.57, 2016429.90; 825712.65, 2016430.55; 825733.09, 2015805.11; 825731.86, 2015803.57;
825721.59, 2016494.66; 825721.80, 2016495.95; 825730.54, 2015802.12; 825729.12, 2015800.76;
825722.22, 2016497.87; 825722.77, 2016499.76; 825727.62, 2015799.49; 825726.96, 2015798.98;
825723.43, 2016501.61; 825724.22, 2016503.41; 825656.34, 2015746.31; 825655.42, 2015745.66;
825725.12, 2016505.16; 825726.13, 2016506.84; 825653.76, 2015744.59; 825652.04, 2015743.64;
825727.26, 2016508.45; 825728.48, 2016509.99; 825650.26, 2015742.81; 825648.65, 2015742.17;
825729.80, 2016511.44; 825731.22, 2016512.80; 825536.03, 2015701.22; 825535.81, 2015701.14;
825732.72, 2016514.07; 825734.30, 2016515.24; 825533.94, 2015700.54; 825532.03, 2015700.07;
825735.96, 2016516.30; 825737.68, 2016517.25; 825530.10, 2015699.72; 825528.15, 2015699.50;
825739.45, 2016518.09; 825741.28, 2016518.80; 825526.19, 2015699.41; 825524.22, 2015699.45;
825743.16, 2016519.40; 825745.06, 2016519.87; 825522.26, 2015699.61; 825520.32, 2015699.91;
825747.00, 2016520.22; 825748.95, 2016520.44; 825518.40, 2015700.33; 825516.51, 2015700.87;
825750.91, 2016520.53; 825752.88, 2016520.50; 825514.66, 2015701.54; 825512.86, 2015702.32;
825754.83, 2016520.33; 825756.78, 2016520.04; 825511.12, 2015703.22; 825509.43, 2015704.24;
825758.70, 2016519.62; 825760.59, 2016519.07; 825507.82, 2015705.36; 825506.28, 2015706.59;
825762.43, 2016518.41; 825764.24, 2016517.62; 825504.83, 2015707.91; 825503.47, 2015709.32;
825765.98, 2016516.72; 825767.66, 2016515.71; 825502.20, 2015710.83; 825501.03, 2015712.41;
825769.28, 2016514.58; 825770.81, 2016513.36; 825499.97, 2015714.06; 825499.02, 2015715.78;
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825774.90, 2016509.12; 825776.06, 2016507.54; 825496.87, 2015721.26; 825496.40, 2015723.17;
825777.12, 2016505.88; 825778.08, 2016504.16; 825496.05, 2015725.10; 825495.83, 2015727.05;
825778.91, 2016502.39; 825779.63, 2016500.56; 825495.74, 2015729.02
825780.23, 2016498.69; 825780.70, 2016496.78;

(iii) Note: Map of Unit 16 (Map 13) follows:



(22) Unit 17: Playita Unit, Yabucoa, Puerto Rico.

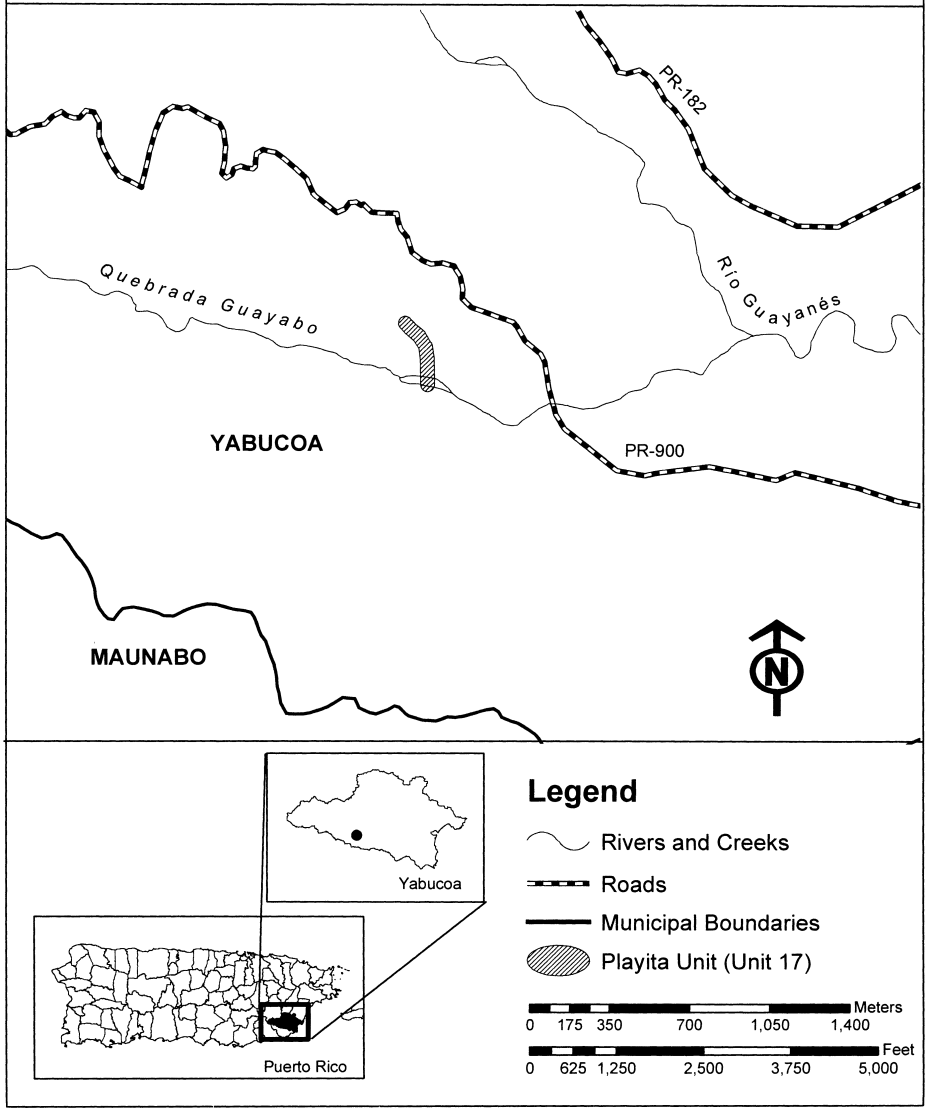
(i) *General Description:* Unit 17 consists of approximately 5.27 ac (2.13 ha), between PR–900 to the north and east and the municipal boundary of *Maunabo* to the south, within Calabazas Ward, Yabucoa.

(ii) *Coordinates:* From Yabucoa USGS 1:20,000 quadrangle map. Unit 17 bounded by the following UTM 19 NAD 83 coordinates (E, N):

825120.79, 1998673.78; 825120.83, 1998675.74; 825121.00, 1998677.70; 825121.29, 1998679.64; 825121.71, 1998681.56; 825122.25, 1998683.45; 825122.92, 1998685.30; 825123.71, 1998687.10; 825124.61, 1998688.85; 825125.62, 1998690.53; 825126.74, 1998692.14; 825127.97, 1998693.68; 825129.29, 1998695.13; 825130.71, 1998696.49; 825132.21, 1998697.76; 825133.79, 1998698.93; 825135.44, 1998699.99; 825137.16, 1998700.94; 825138.94, 1998701.77; 825140.77, 1998702.49; 825142.64, 1998703.09; 825144.55, 1998703.56; 825146.49, 1998703.91; 825148.44, 1998704.13; 825150.40, 1998704.22; 825152.37, 1998704.18; 825154.32, 1998704.02; 825156.27, 1998703.72; 825158.19, 1998703.30; 825160.07, 1998702.76; 825161.92, 1998702.09; 825163.72, 1998701.31; 825165.47, 1998700.40; 825167.15, 1998699.39; 825168.76, 1998698.27; 825170.30, 1998697.04; 825171.75, 1998695.72; 825172.48, 1998694.98; 825196.33, 1998670.14; 825233.38, 1998640.82; 825234.24, 1998640.12; 825235.69, 1998638.80; 825237.05, 1998637.38; 825238.32, 1998635.88; 825239.49, 1998634.30; 825240.24, 1998633.15; 825266.62, 1998590.83; 825266.93, 1998590.32; 825267.88, 1998588.60; 825268.71, 1998586.82; 825269.43, 1998584.99; 825270.03, 1998583.12; 825270.50, 1998581.21; 825270.83, 1998579.42; 825279.64, 1998520.84; 825279.66, 1998520.70; 825279.88, 1998518.75; 825279.96, 1998517.25; 825283.32, 1998403.46; 825283.33, 1998402.99; 825283.29, 1998401.03; 825283.13, 1998399.07; 825282.84, 1998397.12; 825282.42, 1998395.21; 825281.87, 1998393.32; 825281.20, 1998391.47; 825280.42, 1998389.67; 825279.52, 1998387.92; 825278.50, 1998386.24; 825277.38, 1998384.63; 825276.15, 1998383.09; 825274.83, 1998381.64; 825273.42, 1998380.27; 825271.91, 1998379.01; 825270.33, 1998377.84; 825268.68, 1998376.78; 825266.96, 1998375.83; 825265.18, 1998374.99; 825263.35, 1998374.28; 825261.48, 1998373.68; 825259.57, 1998373.21; 825257.64, 1998372.86; 825255.69, 1998372.64; 825253.72, 1998372.55; 825251.76, 1998372.59; 825249.80, 1998372.75; 825247.86, 1998373.05; 825245.94, 1998373.46; 825244.05, 1998374.01; 825242.20, 1998374.68; 825240.40, 1998375.46; 825238.65, 1998376.36; 825236.97, 1998377.38; 825235.36, 1998378.50; 825233.82, 1998379.73; 825232.37, 1998381.05; 825231.01, 1998382.46; 825229.74, 1998383.97; 825228.57, 1998385.55; 825227.51, 1998387.20; 825226.56, 1998388.92; 825225.73, 1998390.70; 825225.01, 1998392.53; 825224.41, 1998394.40; 825223.94, 1998396.31; 825223.59, 1998398.24; 825223.37, 1998400.19; 825223.29, 1998401.69; 825219.99, 1998513.68; 825212.36, 1998564.33; 825192.03, 1998596.96; 825157.45, 1998624.31; 825156.60, 1998625.01; 825155.15, 1998626.34; 825154.42, 1998627.07; 825129.15, 1998653.40; 825128.52, 1998654.08; 825127.25, 1998655.59; 825126.08, 1998657.17; 825125.02, 1998658.82; 825124.07, 1998660.54; 825123.24, 1998662.32; 825122.52, 1998664.15; 825121.92, 1998666.02; 825121.45, 1998667.93; 825121.10, 1998669.86; 825120.88, 1998671.81; 825120.79, 1998673.78;

(iii) Note: Map of Unit 17 (Map 14) follows:

MAP 14. Critical Habitat for the Guajón:
Playita Unit: Calabazas Ward, Yabucoa, Puerto Rico



CALIFORNIA TIGER SALAMANDER (*Ambystoma californiense*)

CALIFORNIA TIGER SALAMANDER (*Ambystoma californiense*) IN SANTA BARBARA COUNTY

(1) Critical habitat units are depicted for Santa Barbara County, California, on the maps below.

(2) The primary constituent elements (PCEs) of critical habitat for the California tiger salamander in Santa Barbara County are the habitat components that provide:

(i) Standing bodies of fresh water, including natural and man-made (e.g., stock) ponds, vernal pools, and dune ponds, and other ephemeral or permanent water bodies that typically become inundated during winter rains and hold water for a sufficient length of time (*i.e.*, 12 weeks) necessary for the species to complete the aquatic portion of its life cycle (PCE 1).

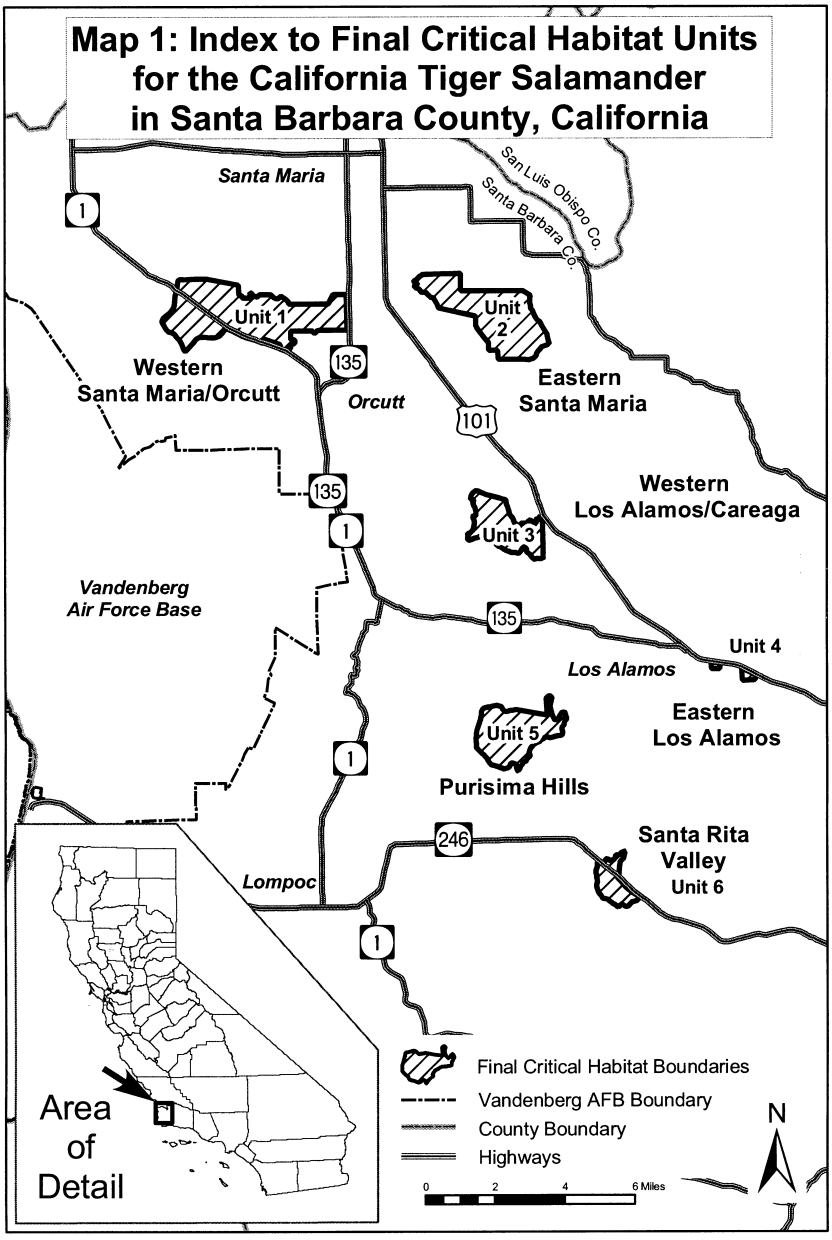
(ii) Barrier-free uplands adjacent to breeding ponds that contain small mammal burrows, including but not limited to burrows created by the California ground squirrel (*Spermophilus beecheyi*) and Botta's pocket gopher (*Thommomys bottae*). Small mammals are essential in creating the underground habitat that adult California tiger salamanders depend upon for food, shelter, and protection from the elements and predation (PCE 2).

(iii) Upland areas between breeding locations (PCE 1) and areas with small mammal burrows (PCE 2) that allow for dispersal among such sites (PCE 3).

(3) Critical habitat does not include existing features and structures, such as buildings, aqueducts, airports, roads and their rights of way, and other developed areas not containing one or more of the primary constituent elements.

(4) Final critical habitat units are described below. Coordinate in UTM Zone 10 with units in meters using North American Datum of 1927 (NAD27).

(5) NOTE: Map 1 (Index map) follows:

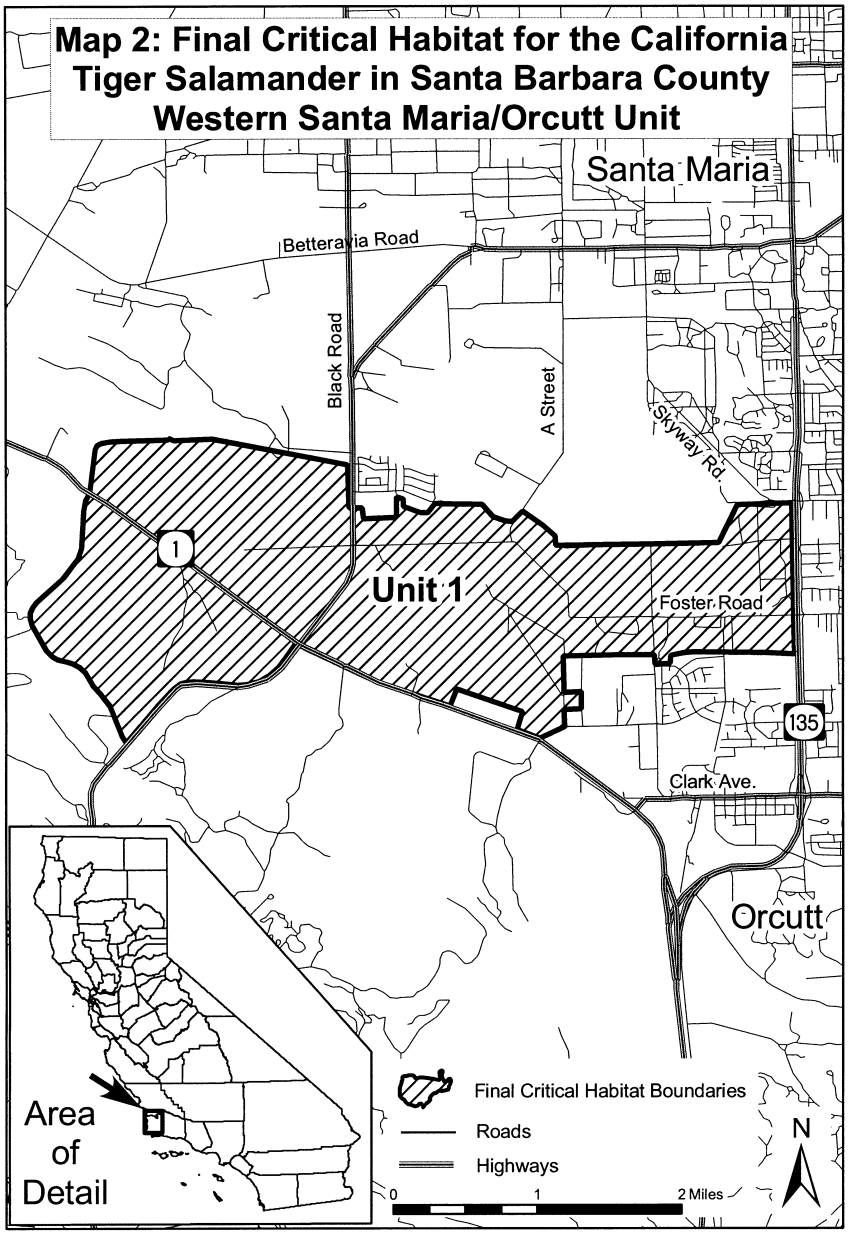


(6) Unit 1: Western Santa Maria/Orcutt Unit, Santa Barbara County, California.

(i) From USGS 1:24, 000 scale quadrangle maps Guadalupe, Santa Maria, Orcutt and Casmalia. Lands bounded by UTM Zone 10, NAD 1927 coordinates (E, N): 727389, 3864869; 727442, 3864843; 727875, 3864859; 729380, 3864569; 729392, 3864085; 729538, 3864085; 729549, 3863963;

729918, 3863978; 729917, 3864206; 729992, 3864189; 729994, 3864102; 730189, 3864034; 730274, 3864033; 730349, 3864133; 730426, 3864139; 730428, 3864131; 730875, 3864121; 730995, 3863984; 731124, 3863944; 731211, 3863935; 731326, 3864047; 731326, 3864050; 731327, 3864050; 731552, 3863889; 731688, 3863776; 731694, 3863667; 732718, 3863684; 733501, 3863695; 733710, 3864115; 734321, 3864137; 734356, 3862460; 734012, 3862472; 733226, 3862481; 733120, 3862472; 732971, 3862446; 732961, 3862352; 732793, 3862347; 732789, 3862453; 732392, 3862448; 731780, 3862433; 731777, 3862409; 731782, 3862099; 731782, 3862030; 731972, 3862034; 731974, 3861846; 731788, 3861839; 731793, 3861647; 731514, 3861520; 731262, 3861619; 731322, 3861818; 730590, 3862072; 730517, 3861874; 730107, 3862013; 729738, 3862138; 729602, 3862197; 729340, 3862322; 729093, 3862435; 728920, 3862517; 728803, 3862577; 728697, 3862427; 728611, 3862313; 728499, 3862215; 728390, 3862156; 728264, 3862119; 728151, 3862116; 728010, 3862126; 727823, 3862142; 727665, 3862155; 727578, 3862147; 727520, 3862128; 727450, 3862077; 727373, 3861996; 727263, 3861874; 726913, 3861473; 726869, 3861542; 726733, 3861881; 726625, 3862026; 726543, 3862111; 726454, 3862257; 726385, 3862323; 726312, 3862358; 726267, 3862377; 726195, 3862392; 726144, 3862402; 726090, 3862433; 726030, 3862494; 725866, 3862781; 725844, 3862860; 725847, 3862927; 725875, 3862987; 725916, 3863037; 726214, 3863309; 726378, 3863531; 726419, 3863641; 726444, 3864049; 726467, 3864173; 726511, 3864261; 726568, 3864745; 726596, 3864786; 726638, 3864810; 726727, 3864827; 726866, 3864836; 727389, 3864850; returning to coordinates 727389, 3864869.

(ii) NOTE: Unit 1 (Map 2) follows:

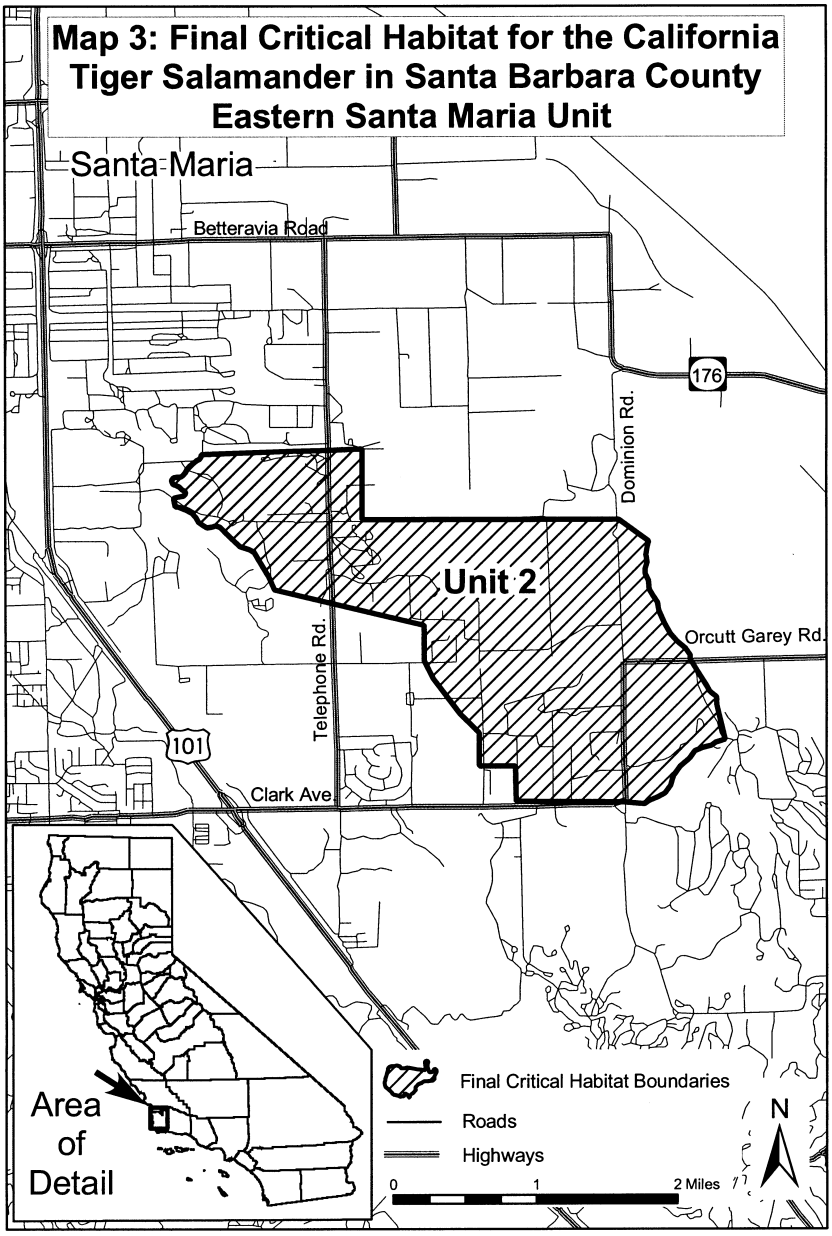


(7) Unit 2: Eastern Santa Maria Unit, Santa Barbara County, California.

(i) From USGS 1:24,000 scale quadrangle maps Guadalupe, Santa Maria, Twitchell Dam, Orcutt and Sisquoc. Lands bounded by UTM Zone 10, NAD 1927 coordinates (E, N): 737445, 3864756; 737472, 3864777; 737515, 3864783; 737548, 3864786; 737572, 3864801; 737600, 3864838;

737615, 3864865; 737648, 3864905; 737679, 3864932; 737706, 3864950; 737727, 3864968; 737755, 3864987; 737776, 3865011; 737779, 3865041; 738854, 3865078; 738849, 3865074; 739192, 3865081; 739600, 3865100; 739600, 3864300; 742500, 3864300; 742836, 3864048; 742825, 3863984; 742805, 3863899; 742825, 3863808; 742798, 3863736; 742798, 3863677; 742838, 3863599; 742851, 3863501; 742890, 3863429; 742942, 3863357; 742955, 3863266; 743020, 3863122; 743086, 3863004; 743164, 3862913; 743256, 3862841; 743308, 3862763; 743308, 3862717; 743399, 3862573; 743497, 3862417; 743536, 3862345; 743608, 3862286; 743608, 3862201; 743703, 3861803; 743680, 3861801; 743607, 3861773; 743552, 3861732; 743460, 3861709; 743363, 3861672; 743299, 3861589; 743194, 3861498; 743115, 3861392; 743083, 3861277; 743028, 3861194; 742955, 3861153; 742844, 3861112; 742794, 3861075; 742546, 3861098; 741338, 3861104; 741329, 3861505; 740918, 3861507; 740918, 3861880; 740700, 3862100; 740400, 3862500; 740300, 3862700; 740300, 3863100; 738600, 3863500; 738531, 3863657; 738371, 3863925; 738322, 3863957; 738273, 3863974; 738219, 3863986; 738136, 3864066; 738036, 3864163; 737987, 3864215; 737938, 3864226; 737890, 3864212; 737838, 3864206; 737795, 3864232; 737749, 3864266; 737718, 3864321; 737672, 3864378; 737595, 3864409; 737512, 3864441; 737493, 3864445; 737485, 3864446; 737478, 3864479; 737466, 3864522; 737472, 3864543; 737500, 3864555; 737536, 3864561; 737576, 3864571; 737600, 3864589; 737594, 3864625; 737563, 3864640; 737530, 3864668; 737487, 3864689; 737460, 3864701; 737448, 3864728; returning to coordinates 737445, 3864756

(i) NOTE: Unit 2 (Map 3) follows:

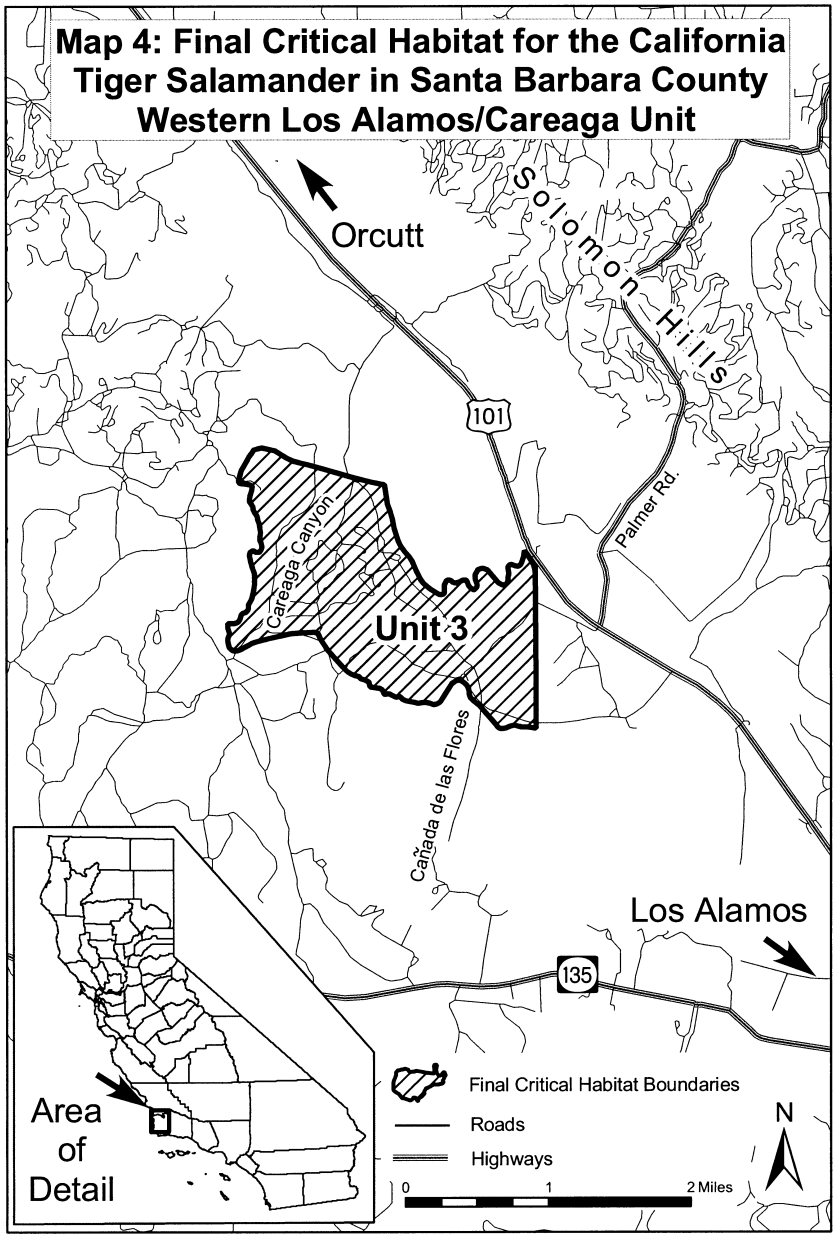


(8) Unit 3: Western Los Alamos/Careaga Unit, Santa Barbara County, California.

(i) From USGS 1:24,000 scale quadrangle maps Orcutt and Sisquoc. Lands bounded by UTM Zone 10, NAD 1927 coordinates (E, N): 739930, 3852832; 739932, 3852861; 739942, 3852885; 739950, 3852898; 739953, 3852908; 739948, 3852930; 739938, 3852953; 739930, 3852980; 739930, 3853010;

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(ii) NOTE: Unit 3 (Map 4) follows:

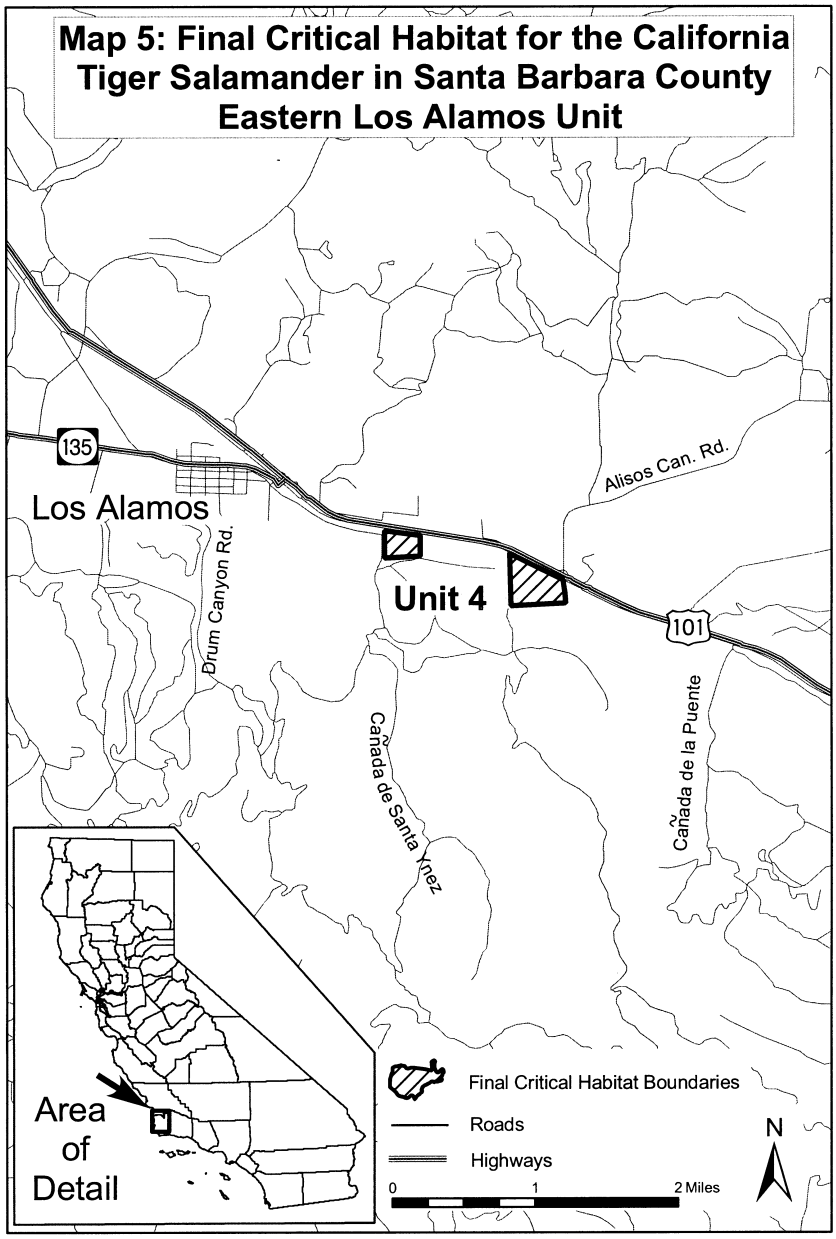


(9) Unit 4: Eastern Los Alamos Unit, Santa Barbara County, California.

(i) From USGS 1:24,000 scale quadrangle maps Los Alamos and Zaca Creek. Lands bounded by UTM Zone 10, NAD 1927 coordinates (E, N): 751549, 3847022; 751555, 3846792; 751152, 3846766; 751147, 3847077; 751215, 3847070; return to coordinates 751549, 3847022; 752562,

3846818; 752566, 3846816; 752568, 3846815; 753162, 3846522; 753190, 3846371; 753198, 3846259; 752581, 3846225; 752562, 3846811; returning to coordinates 752562, 3846818.

(ii) NOTE: Unit 4 (Map 5) follows:

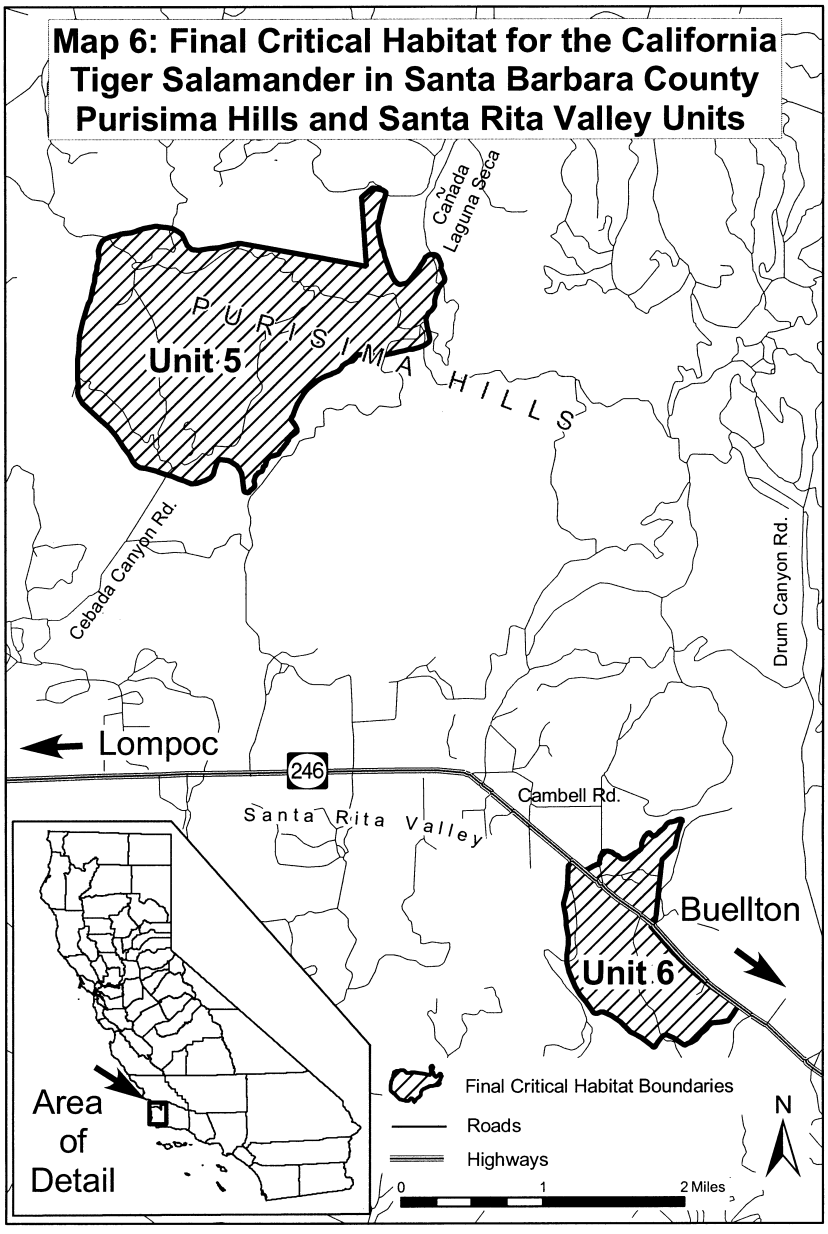


(10) Unit 5 (Purisima Hills) and Unit 6 (Santa Rita Valley), Santa Barbara County, California.

(i) From USGS 1:24,000 scale quadrangle maps Lompoc and Los Alamos. Lands bounded by UTM Zone 10, NAD 1927 coordinates (E, N): 740315, 3843441; 740315, 3843571; 740333, 3843694; 740344, 3843851; 740379, 3844016; 740440, 3844211; 740465, 3844252; 740500, 3844403; 740514, 3844454; 740523, 3844541; 740545, 3844615; 740543, 3844650; 740562, 3844732; 740560, 3844813; 740574, 3844876; 740605, 3844928; 740632, 3844951; 740687, 3844979; 740760, 3844996; 740805, 3845008; 740854, 3845018; 740926, 3845027; 740998, 3845045; 741062, 3845070; 741215, 3845097; 741303, 3845088; 741330, 3845084; 741406, 3845068; 741449, 3845049; 741505, 3845008; 741534, 3844944; 741565, 3844878; 741622, 3844831; 741696, 3844819; 741830, 3844848; 741927, 3844856; 742032, 3844878; 742137, 3844897; 742187, 3844900; 743020, 3844746; 743600, 3844639; 743544, 3845422; 743666, 3845536; 743782, 3845507; 743804, 3845490; 743820, 3845487; 743817, 3845472; 743789, 3845364; 743754, 3845216; 743731, 3845103; 743737, 3845037; 743766, 3844881; 743795, 3844800; 743801, 3844755; 743885, 3844535; 743914, 3844487; 743935, 3844452; 743955, 3844439; 743980, 3844433; 744015, 3844435; 744049, 3844447; 744076, 3844462; 744101, 3844484; 744191, 3844607; 744256, 3844716; 744267, 3844736; 744287, 3844751; 744316, 3844765; 744347, 3844771; 744379, 3844771; 744398, 3844763; 744416, 3844745; 744431, 3844716; 744453, 3844650; 744443, 3844611; 744459, 3844574; 744482, 3844523; 744488, 3844488; 744482, 3844462; 744449, 3844433; 744425, 3844386; 744406, 3844347; 744392, 3844304; 744379, 3844255; 744375, 3844189; 744361, 3844156; 744334, 3844132; 744306, 3844106; 744283, 3844062; 744275, 3844028; 744279, 3843987; 744291, 3843933; 744308, 3843884; 744316, 3843839; 744320, 3843801; 744303, 3843764; 744258, 3843733; 744257, 3843733; 744209, 3843711; 744131, 3843692; 744083, 3843690; 744032, 3843674; 743962, 3843661; 743896, 3843643; 743768, 3843616; 743739, 3843608; 743690, 3843610; 743673, 3843616; 743651, 3843624; 743587, 3843624; 743548, 3843624; 743519, 3843624; 743488, 3843616; 743467, 3843585; 743439, 3843558; 743414, 3843550; 743391, 3843543; 743373, 3843538; 743327, 3843503; 743319, 3843489; 743303, 3843462; 743280, 3843443; 743228, 3843421; 743222, 3843416; 743194, 3843404; 743150, 3843392; 743095, 3843367; 743037, 3843328; 742969, 3843276; 742924, 3843237; 742891, 3843194; 742856, 3843132; 742817, 3843073; 742790, 3842998; 742767, 3842937; 742745, 3842914; 742741, 3842893; 742755, 3842875; 742776, 3842844; 742796, 3842819; 742811, 3842782; 742808, 3842754; 742808, 3842756; 742806, 3842745; 742724, 3842689; 742714, 3842673; 742714, 3842654; 742699, 3842642; 742691, 3842619; 742679, 3842599; 742658, 3842574; 742619, 3842523; 742600, 3842496; 742580, 3842488; 742559, 3842481; 742528, 3842473; 742512, 3842467; 742491, 3842453; 742469, 3842436; 742460, 3842407; 742452, 3842376; 742446, 3842358; 742432, 3842352; 742423, 3842346; 742423, 3842331; 742423, 3842321; 742415, 3842300; 742401, 3842292; 742382, 3842284; 742366, 3842278; 742360, 3842263; 742347, 3842255; 742337, 3842238; 742331, 3842214; 742325, 3842195; 742322, 3842177; 742333, 3842156; 742333, 3842133; 742325, 3842113; 742308, 3842100; 742283, 3842082; 742263, 3842053; 742215, 3842063; 742205, 3842084; 742199, 3842144; 742189, 3842214; 742182, 3842267; 742162, 3842317; 742131, 3842362; 742065, 3842407; 742020, 3842428; 741952, 3842434; 741925, 3842430; 741907, 3842411; 741884, 3842343; 741859, 3842259; 741834, 3842222; 741785, 3842199; 741678, 3842164; 741618, 3842152; 741524, 3842191; 741449, 3842218; 741383, 3842245; 741322, 3842265; 741194, 3842306; 741101, 3842329; 741029, 3842343; 740984, 3842374; 740953, 3842407; 740908, 3842494; 740846, 3842572; 740805, 3842632; 740760, 3842702; 740681, 3842796; 740578, 3842885; 740374, 3843079; 740346, 3843118; 740329, 3843163; 740321, 3843192; 740323, 3843280; 740319, 3843359; returning to coordinates 740315, 3843441.

(ii) From USGS 1:24,000 scale quadrangle map Los Alamos. Lands bounded by UTM Zone 10, NAD 1927 coordinates (E, N): 745831, 3837355; 745836, 3837400; 745868, 3837517; 745882, 3837595; 745885, 3837796; 745931, 3837850; 745943, 3837841; 746054, 3837754; 746086, 3837749; 746174, 3837796; 746193, 3837805; 746210, 3837817; 746240, 3837814; 746238, 3837834; 746237, 3837848; 746238, 3837859; 746246, 3837885; 746252, 3837904; 746264, 3837925; 746270, 3837939; 746273, 3837961; 746333, 3837969; 746362, 3837961; 746389, 3837952; 746410, 3837932; 746447, 3837910; 746481, 3837886; 746510, 3837871; 746524, 3837871; 746574, 3837901; 746641, 3837941; 746671, 3837958; 746698, 3837971; 746711, 3837990; 746719, 3838016; 746722, 3838057; 746732, 3838099; 746754, 3838127; 746774, 3838153; 746800, 3838178; 746812, 3838172; 746830, 3838154; 746849, 3838139; 746872, 3838143; 746890, 3838153; 746910, 3838175; 746936, 3838195; 746973, 3838226; 747007, 3838275; 747028, 3838292; 747042, 3838295; 747065, 3838297; 747100, 3838307; 747126, 3838325; 747165, 3838333; 747192, 3838314; 747175, 3838300; 747164, 3838280; 747130, 3838159; 747094, 3838014; 746951, 3837865; 746923, 3837601; 746880, 3837223; 746875, 3837182; 746875, 3837180; 746819, 3837113; 747089, 3836795; 747166, 3836717; 747266, 3836621; 747421, 3836483; 747555, 3836383; 747819, 3836198; 747789, 3836153; 747755, 3836094; 747708, 3836034; 747619, 3836017; 747525, 3836009; 747485, 3835980; 747470, 3835953; 747470, 3835945; 747428, 3835918; 747391, 3835882; 747345, 3835822; 747298, 3835796; 747255, 3835776; 747202, 3835757; 747159, 3835786; 747080, 3835838; 747045, 3835853; 747015, 3835866; 746987, 3835870; 746960, 3835858; 746907, 3835796; 746883, 3835755; 746875, 3835741; 746860, 3835729; 746841, 3835737; 746825, 3835750; 746722, 3835836; 746666, 3835870; 746586, 3835909; 746526, 3835966; 746474, 3836020; 746369, 3836096; 746284, 3836134; 746251, 3836133; 746219, 3836119; 746195, 3836119; 746169, 3836122; 746153, 3836147; 746086, 3836247; 746015, 3836335; 745961, 3836422; 745892, 3836592; 745874, 3836696; 745868, 3836781; 745884, 3836906; 745884, 3836988; 745866, 3837121; 745866, 3837174; 745855, 3837241; 745837, 3837310; returning to coordinates 745831, 3837355.

(iii) NOTE: Units 5 and 6 (Map 6) follow:


Map 6: Final Critical Habitat for the California Tiger Salamander in Santa Barbara County Purisima Hills and Santa Rita Valley Units
Cañada Laguna Seca
PURISIMA HILLS
Unit 5
Cebada Canyon Rd.
Drum Canyon Rd.
Lompoc
246
Cambell Rd.
Santa Rita Valley
Buellton
Unit 6
Area of Detail
Final Critical Habitat Boundaries
Roads
Highways
0
1
2 Miles
N

CENTRAL POPULATION OF THE CALIFORNIA TIGER SALAMANDER (*Ambystoma californiense*)

(11) Critical habitat units are depicted for the Central population of the California tiger salamander in California on the maps below.

(12) The PCEs of critical habitat for the Central population of the California tiger salamander (*Ambystoma californiense*) are the habitat components that provide:

(i) Standing bodies of fresh water (including natural and manmade (e.g., stock)) ponds, vernal pools, and other ephemeral or permanent water bodies which typically support inundation during winter rains and hold water for a minimum of 12 weeks in a year of average rainfall;

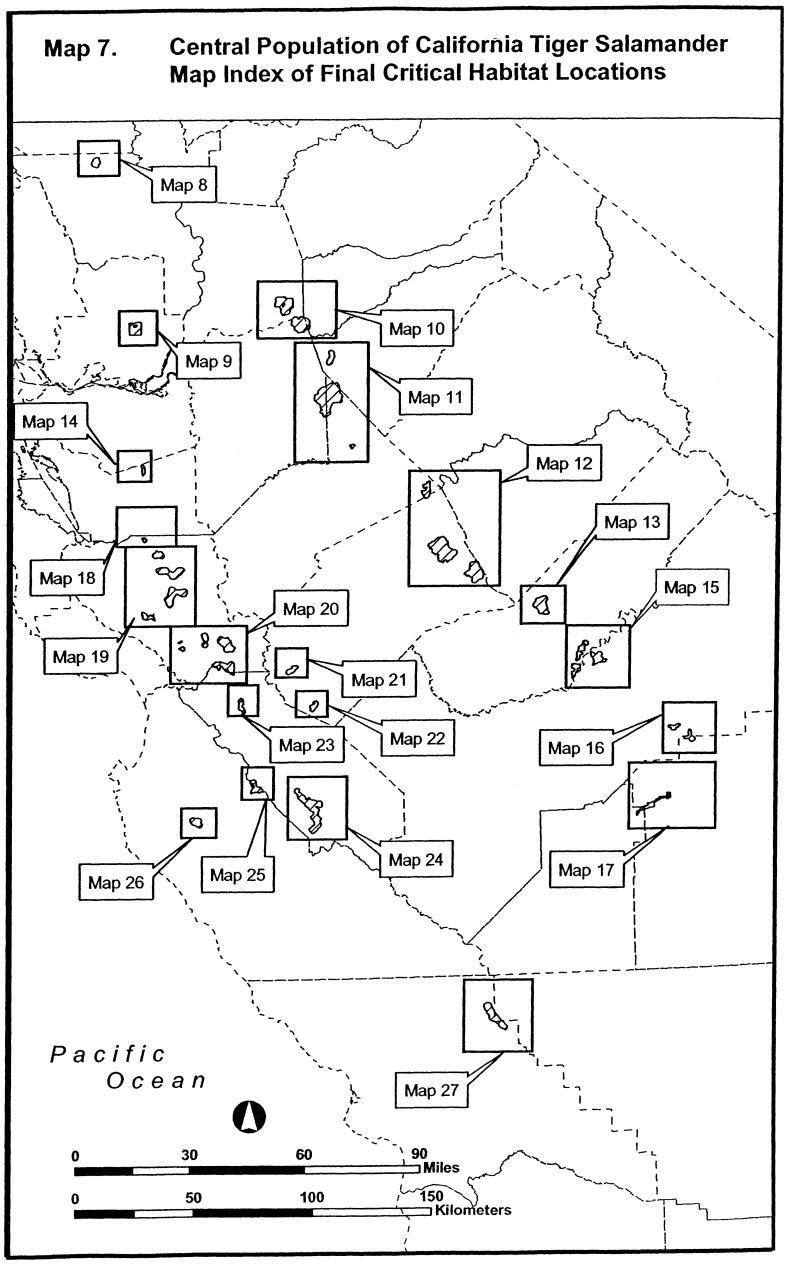
(ii) Upland habitats adjacent and accessible to and from breeding ponds that contain small mammal burrows or other underground habitat that CTS depend upon for food, shelter, and protection from the elements and predation; and

(iii) Accessible upland dispersal habitat between occupied locations that allow for movement between such sites.

(13) Critical habitat does not include manmade structures existing on the effective date of this rule and not containing one or more of the PCEs, such as buildings, aqueducts, airports, and roads, and the land on which such structures are located.

(14) Critical habitat units are described below. Data layers defining map units were created by screen digitizing habitat boundaries using ArcMap GIS.

(15) Note: Map 7 (Index map) follows:

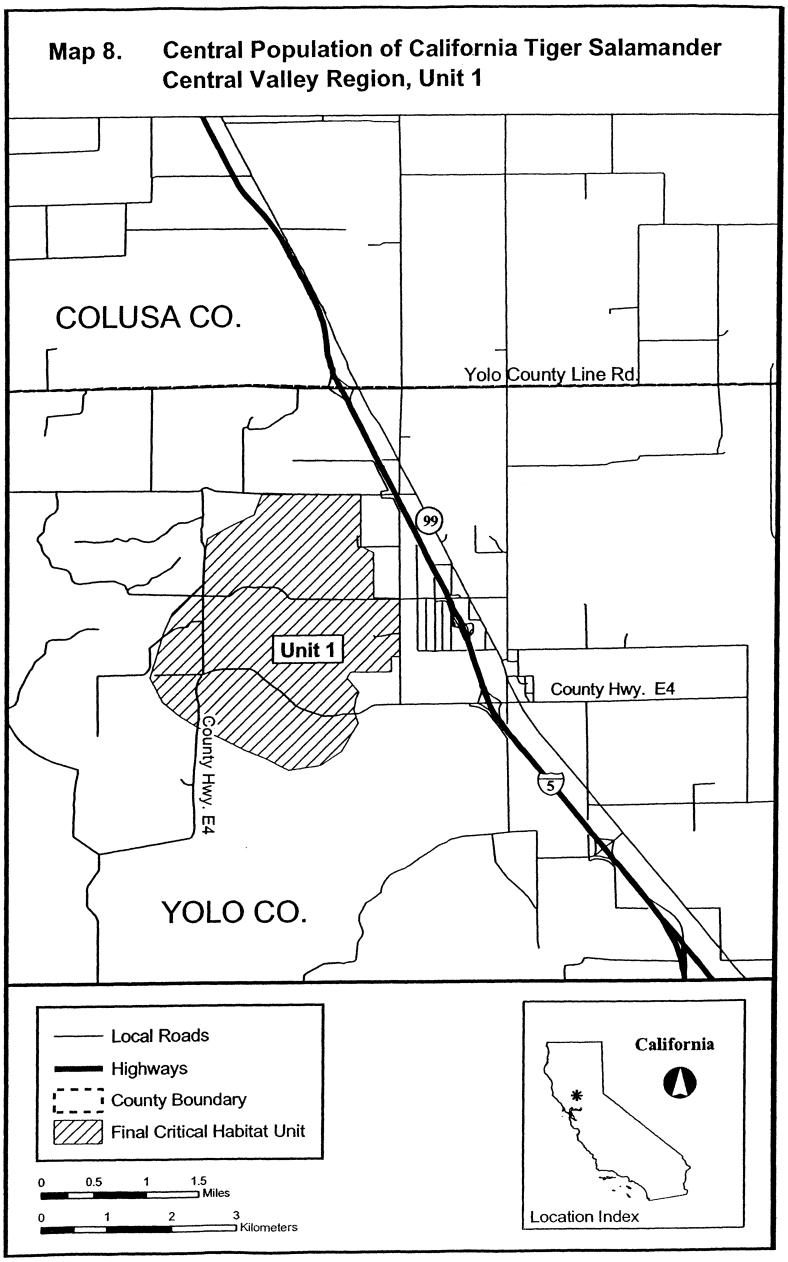


(16) Central Valley Region: Unit 1, Yolo County, California.

(i) From USGS 1:24,000 scale quadrangles Wildwood School, Dunnigan, Bird Valley, Zamora. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 586407, 4303194; 585908, 4303117; 585550, 4303309; 585255, 4303424; 584910, 4303603; 584500, 4303795; 584231,

4303962; 583975, 4304179; 583783, 4304551; 583988, 4305229; 584116, 4305537; 584321, 4305729; 584602, 4305997; 584615, 4306446; 584654, 4306689; 584922, 4306830; 585089, 4306906; 585370, 4307047; 585486, 4307355; 585914, 4307355; 586996, 4307355; 587000, 4306558; 587204, 4306457; 587208, 4305759; 587600, 4305747; 587609, 4305701; 587617, 4304857; 587488, 4304855; 587486, 4304740; 587486, 4304618; 586854, 4304617; 586795, 4304534; 586983, 4304309; 586935, 4304197; 586912, 4304035; 586970, 4303827; 586715, 4303400; returning to 586407, 4303194.

(ii) Note: Map 8 (Central Valley Region, Unit 1) follows:

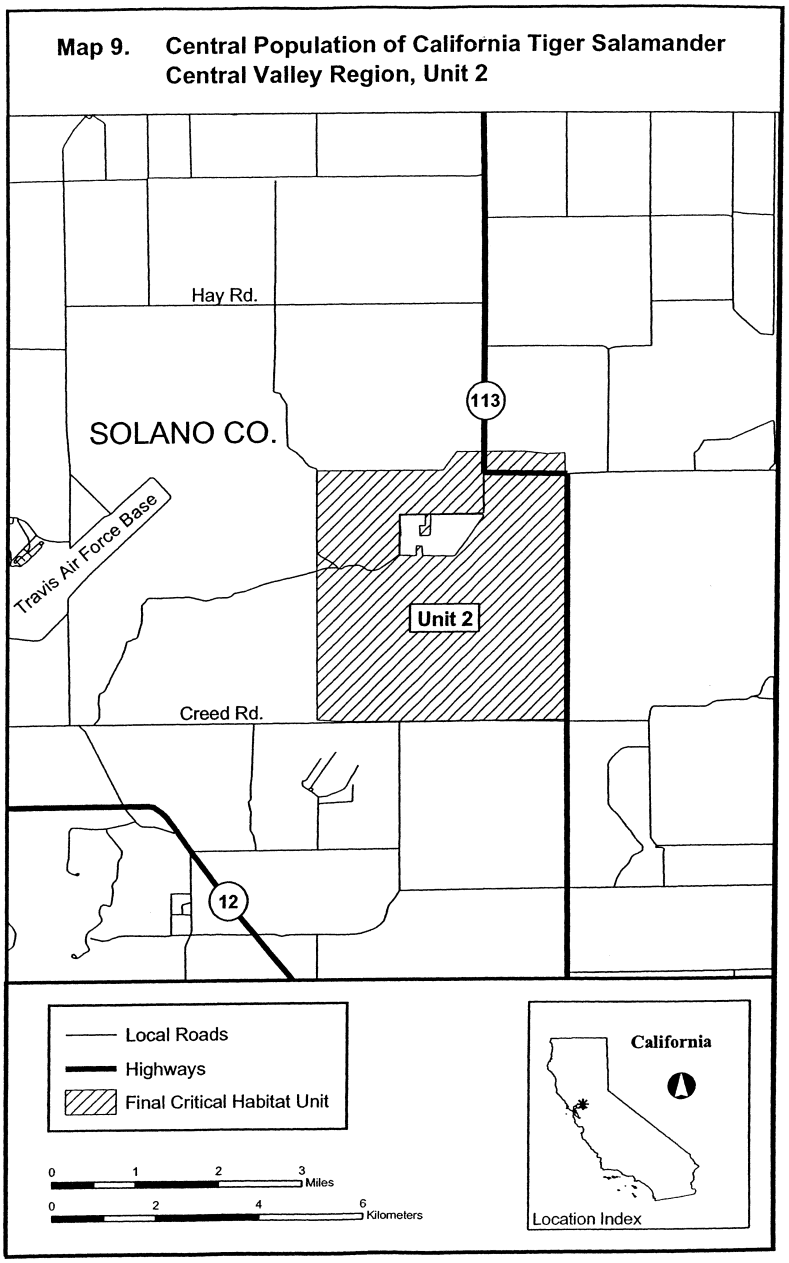


(17) Central Valley Region: Unit 2, Solano County, California.

(i) From USGS 1:24,000 scale quadrangles Dozier, and Birds Landing. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 601869, 4237342; 601865, 4236938; 601654, 4236932; 601647, 4237125; 601764, 4237131; 601764, 4237339; 601264, 4237328; 601264, 4237123;

601288, 4237127; 601297, 4236925; 601267, 4236923; 601266, 4236556; 601589, 4236551; 601590, 4236740; 601703, 4236734; 601710, 4236549; 602349, 4236539; 602884, 4237289; 602883, 4237336; returning to 601869, 4237342.; excluding land bounded by: 603666, 4238548; 604112, 4238500; 604463, 4238516; 604510, 4237050; 604494, 4233370; 601674, 4233354; 600161, 4233354; 599699, 4233386; 599667, 4238197; 602105, 4238197; 602375, 4238548; 602822, 4238548; 603666, 4238548

(ii) Note: Map 9 (Central Valley Region, Unit 2) follows:



(18) Central Valley Region: Unit 3, Sacramento County, California.

(i) From USGS 1:24,000 scale quadrangles Clay, and Goose Creek. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 664836, 4248038; 665672, 4248010; 668028, 4248080; 667972, 4246477; 668014, 4245543; 668070, 4244525; 668098, 4244093; 667735, 4243954; 667443,

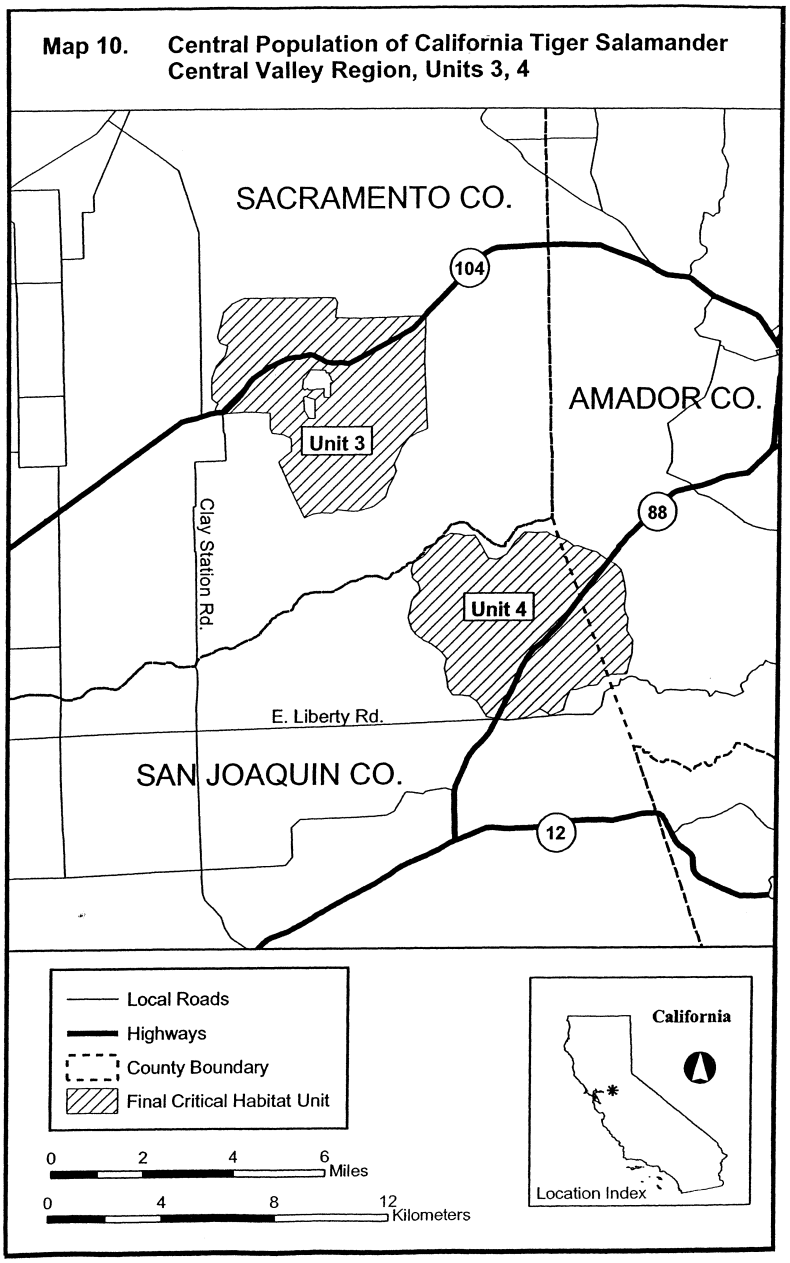
4243758; 667178, 4243424; 666927, 4242866; 666982, 4242588; 666885, 4242323; 666718, 4242016; 666606, 4241667; 666216, 4241361; 665644, 4241193; 665337, 4241207; 664947, 4241249; 664766, 4241124; 664362, 4241138; 664125, 4241110; 663790, 4240970; 663246, 4242100; 663149, 4242323; 662884, 4242936; 663316, 4243312; 663302, 4243758; 663051, 4243898; 662633, 4243954; 662563, 4244121; 662563, 4244665; 662368, 4244679; 661713, 4244706; 660626, 4244623; 660626, 4244804; 660723, 4245013; 660514, 4245180; 660500, 4245613; 660514, 4245919; 660654, 4246337; 660960, 4246672; 661072, 4247048; 660779, 4247146; 660695, 4247369; 660793, 4247732; 660904, 4248219; 661211, 4248526; 661629, 4248721; 664822, 4248735; 664905, 4248554; returning to 664836, 4248038; excluding land bounded by: 663699, 4245563; 663773, 4245470; 663872, 4245529; 663908, 4245484; 664132, 4245487; 664193, 4245525; 664343, 4245508; 664446, 4245534; 664455, 4245223; 664686, 4245225; 664681, 4245603; 664669, 4245660; 664669, 4245731; 664793, 4245767; 664776, 4245798; 664712, 4245836; 664686, 4245962; 664629, 4246000; 664643, 4246107; 664517, 4246081; 664512, 4246171; 664315, 4246178; 664236, 4246190; 663987, 4246188; 663813, 4245903; 663732, 4245860; and returning to 663699, 4245563.; and excluding land bounded by: 663893, 4245225; 663790, 4245261; 663740, 4245213; 663759, 4244776; 663937, 4244476; 664146, 4244482; 664133, 4245143; returning to 663893, 4245225.

(ii) Note: Central Valley Region, Unit 3 is depicted on Map 10—Units 3 and 4—see paragraph (19)(ii).

(19) Central Valley Region: Unit 4, Amador County, California, and San Joaquin County, California.

(i) From USGS 1:24,000 scale quadrangles Goose Creek, Ione, Clements, and Wallace. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 672313, 4240429; 672654, 4240270; 672756, 4240232; 673017, 4240134; 673290, 4239940; 673438, 4239952; 673699, 4239838; 674062, 4239736; 674380, 4239498; 674698, 4239304; 674925, 4239089; 675039, 4238646; 675084, 4238248; 675039, 4237771; 675050, 4237658; 675175, 4237396; 675130, 4236954; 675346, 4236613; 675323, 4236045; 675198, 4235738; 675152, 4235409; 674653, 4235398; 674499, 4235346; 674346, 4235295; 674119, 4235023; 673812, 4234989; 673449, 4234864; 673188, 4234841; 673040, 4234455; 672961, 4234114; 672506, 4233944; 672313, 4234069; 672154, 4234160; 671723, 4233910; 671257, 4233774; 670905, 4233796; 670587, 4233830; 670246, 4233898; 670099, 4234160; 669905, 4234455; 669656, 4234637; 669292, 4234682; 669054, 4234682; 668883, 4234932; 668815, 4235295; 668747, 4235602; 668815, 4235977; 668622, 4236227; 668281, 4236499; 668020, 4236613; 667736, 4236806; 667566, 4237022; 667452, 4237408; 667566, 4237976; 667657, 4238135; 667816, 4238328; 667861, 4238441; 667804, 4238623; 667589, 4238827; 667555, 4239111; 667623, 4239339; 668009, 4239600; 668202, 4239827; 668497, 4240134; 668940, 4240395; 669201, 4240372; 669440, 4240327; 669803, 4240338; 670064, 4239906; 670269, 4239520; 670564, 4239463; 670928, 4239657; 671212, 4240099; 671564, 4240429; 671916, 4240406; returning to 672313, 4240429.

(ii) Note: Unit 4 is depicted on Map 10—Units 3 and 4—which follows:



(20) Central Valley Region: Unit 5, Calaveras County, California.

(i) From USGS 1:24,000 scale quadrangles Goose Creek, Ione, Clements, and Wallace. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 683568, 4220263; 682958, 4220198; 682573, 4220519; 682460, 4220664; 682316, 4221113; 682316, 4221499; 682348, 4221772;

682508, 4222125; 682589, 4222494; 682974, 4222976; 683343, 4223345; 683279, 4223762; 683375, 4224067; 683343, 4224501; 683183, 4224790; 683086, 4225352; 683215, 4225657; 683456, 4225994; 683632, 4226170; 683953, 4226283; 684114, 4226411; 684467, 4226411; 684804, 4226267; 685157, 4226026; 685334, 4225496; 685350, 4224982; 685334, 4224549; 685510, 4224115; 685494, 4223682; 685382, 4223297; 685173, 4222976; 685029, 4222719; 684852, 4222205; 684772, 4221900; 684643, 4221483; 684531, 4220985; 684306, 4220664; 683921, 4220391; returning to 683568, 4220263.

(ii) Note: Central Valley Region, Unit 5 is depicted on Map 11—Units 5, 6, and 7—see paragraph (22)(ii).

(21) Central Valley Region: Unit 6, Calaveras County, California, Stanislaus County, California, and San Joaquin County, California.

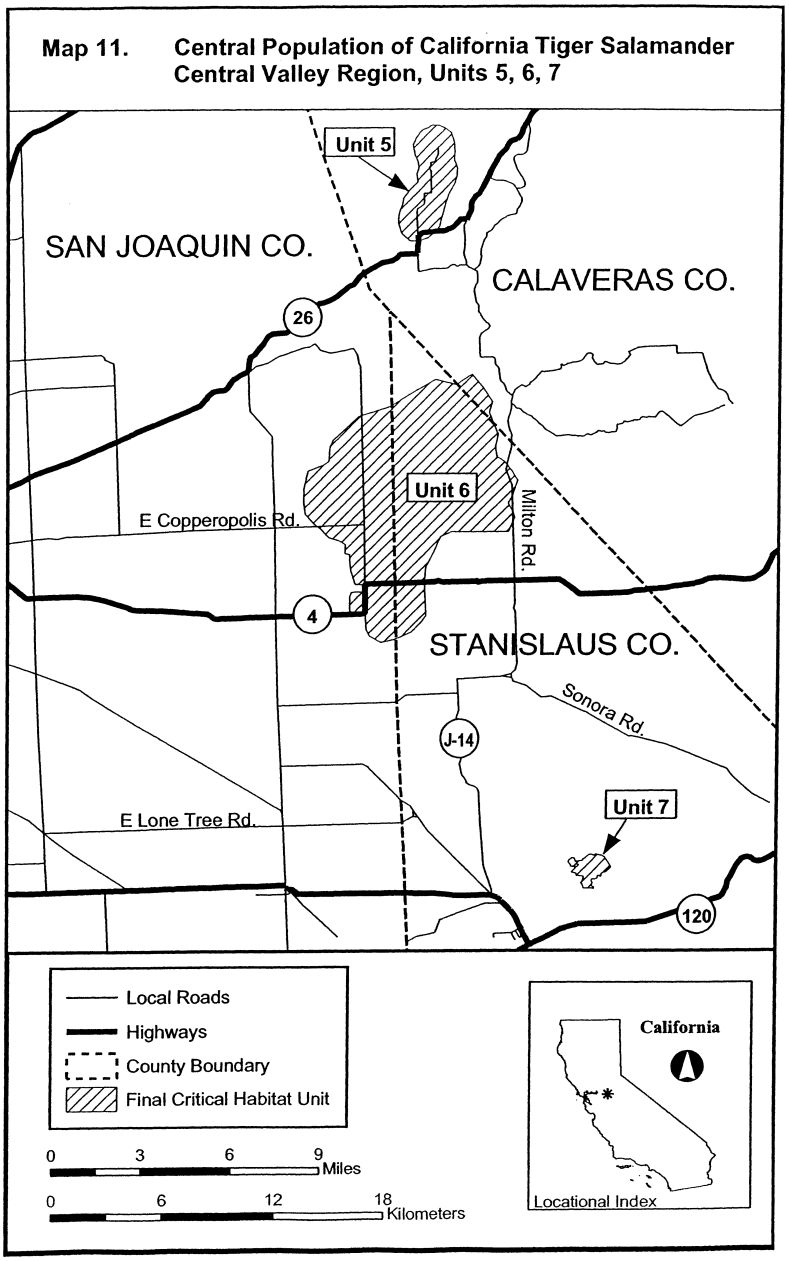
(i) From USGS 1:24,000 scale quadrangles Valley Springs SW, Jenny Lind, Farmington, and Bachelor Valley. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 686359, 4213033; 686987, 4212296; 687479, 4211559; 687315, 4210958; 687542, 4210371; 687779, 4209756; 687643, 4209128; 687725, 4208582; 688134, 4208308; 688544, 4207789; 688844, 4207298; 688571, 4206424; 688349, 4206061; 688544, 4205714; 688708, 4205277; 688372, 4204505; 686597, 4204505; 685277, 4204505; 684693, 4204235; 684316, 4203393; 683884, 4202567; 683811, 4201719; 683900, 4199972; 683710, 4199678; 683164, 4199104; 682563, 4198831; 682285, 4198727; 682126, 4198667; 681470, 4198503; 680869, 4198858; 680665, 4199223; 680627, 4200080; 679933, 4200062; 679777, 4200279; 679777, 4201016; 679882, 4201242; 680596, 4201279; 680584, 4201670; 680077, 4201672; 679832, 4202382; 679764, 4202757; 679752, 4203304; 679504, 4203338; 679531, 4203829; 679149, 4204048; 678630, 4204212; 678220, 4204649; 677810, 4204976; 677346, 4205495; 677264, 4206069; 677264, 4206834; 677483, 4207817; 678329, 4208145; 678603, 4208308; 678684, 4209100; 678821, 4209483; 680253, 4210794; 681850, 4211270; 681985, 4211350; 682777, 4211817; 683589, 4212297; 684384, 4212766; 685533, 4212474; 685557, 4212491; returning to 686359, 4213033.

(ii) Note: Central Valley Region, Unit 6 is depicted on Map 11—Units 5, 6, and 7—see paragraph (22)(ii).

(22) Central Valley Region: Unit 7, Stanislaus County, California.

(i) From USGS 1:24,000 scale quadrangle Oakdale. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 693428, 4186960; 693463, 4186942; 693504, 4186969; 693517, 4186960; 693709, 4186853; 693941, 4186479; 694034, 4186323; 694003, 4186260; 693941, 4186198; 693900, 4186166; 693816, 4186086; 693771, 4186059; 693646, 4186006; 693588, 4185993; 693544, 4185975; 693544, 4185930; 693517, 4185877; 693526, 4185792; 693495, 4185805; 693459, 4185836; 693423, 4185823; 693397, 4185863; 693352, 4185859; 693330, 4185828; 693303, 4185756; 693298, 4185712; 693218, 4185689; 693191, 4185645; 693138, 4185640; 693080, 4185676; 693026, 4185671; 693000, 4185645; 692964, 4185582; 693000, 4185511; 693049, 4185493; 693018, 4185440; 693022, 4185386; 692995, 4185333; 692991, 4185284; 693058, 4185261; 693098, 4185243; 693093, 4185168; 692986, 4185177; 692527, 4185172; 692514, 4185243; 692506, 4185297; 692501, 4185303; 692478, 4185364; 692456, 4185413; 692420, 4185449; 692456, 4185515; 692509, 4185627; 692523, 4185716; 692523, 4185774; 692523, 4185823; 692433, 4185841; 692179, 4185850; 692152, 4185903; 692157, 4185966; 691916, 4186028; 691925, 4186064; 692010, 4186122; 692041, 4186175; 692090, 4186220; 692121, 4186260; 692179, 4186327; 692246, 4186349; 692277, 4186389; 692291, 4186421; 692273, 4186461; 692228, 4186470; 692144, 4186447; 692108, 4186434; 692108, 4186376; 692099, 4186323; 692019, 4186314; 691987, 4186345; 691970, 4186345; 691921, 4186345; 691880, 4186345; 691858, 4186385; 691858, 4186434; 691840, 4186452; 691800, 4186470; 691782, 4186496; 691747, 4186532; 691729, 4186568; 691738, 4186621; 691773, 4186675; 691818, 4186719; 691858, 4186746; 691903, 4186764; 691947, 4186795; 691987, 4186804; 692045, 4186804; 692144, 4186608; 692228, 4186626; 692326, 4186639; 692398, 4186644; 692478, 4186644; 692540, 4186768; 692607, 4186755; 692634, 4186786; 692670, 4186849; 692790, 4186933; 692848, 4186969; 692911, 4187000; 693026, 4187005; 693067, 4186951; 693125, 4186947; 693174, 4186951; 693200, 4187027; 693379, 4186987; returning to 693428, 4186960.

(ii) Note: Central Valley Region, Unit 7 is depicted on Map 11—Units 5, 6, and 7—which follows:



(23) Central Valley Region: Unit 8, Stanislaus County, California, and Merced County, California.

(i) From USGS 1:24,000 scale quadrangles La Grange, and Snelling. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 725431, 4171496; 725601, 4170824;

725374, 4170317; 725561, 4169703; 725374, 4168849; 725587, 4168488; 725787, 4167394; 725257, 4165657; 725200, 4165472; 725093, 4164938; 724466, 4164337; 724132, 4164284; 723759, 4164284; 723267, 4164611; 723238, 4164631; 722571, 4165765; 722250, 4166366; 721817, 4167393; 723498, 4167406; 723802, 4167803; 723935, 4168465; 724279, 4168677; 724252, 4169047; 723894, 4169053; 723869, 4168849; 723432, 4168835; 723458, 4168663; 722664, 4168650; 722651, 4169074; 722584, 4170027; 723086, 4170091; 723352, 4169961; 723869, 4170371; 724200, 4170411; 724133, 4170861; 724199, 4171065; 724438, 4171245; 724888, 4171192; 724914, 4171391; 725153, 4171457; returning to 725431, 4171496.

(ii) Note: Central Valley Region, Unit 8 is depicted on Map 12—Units 8, 9, and 10—see paragraph (25)(ii).

(24) Central Valley Region: Unit 9, Merced County, California.

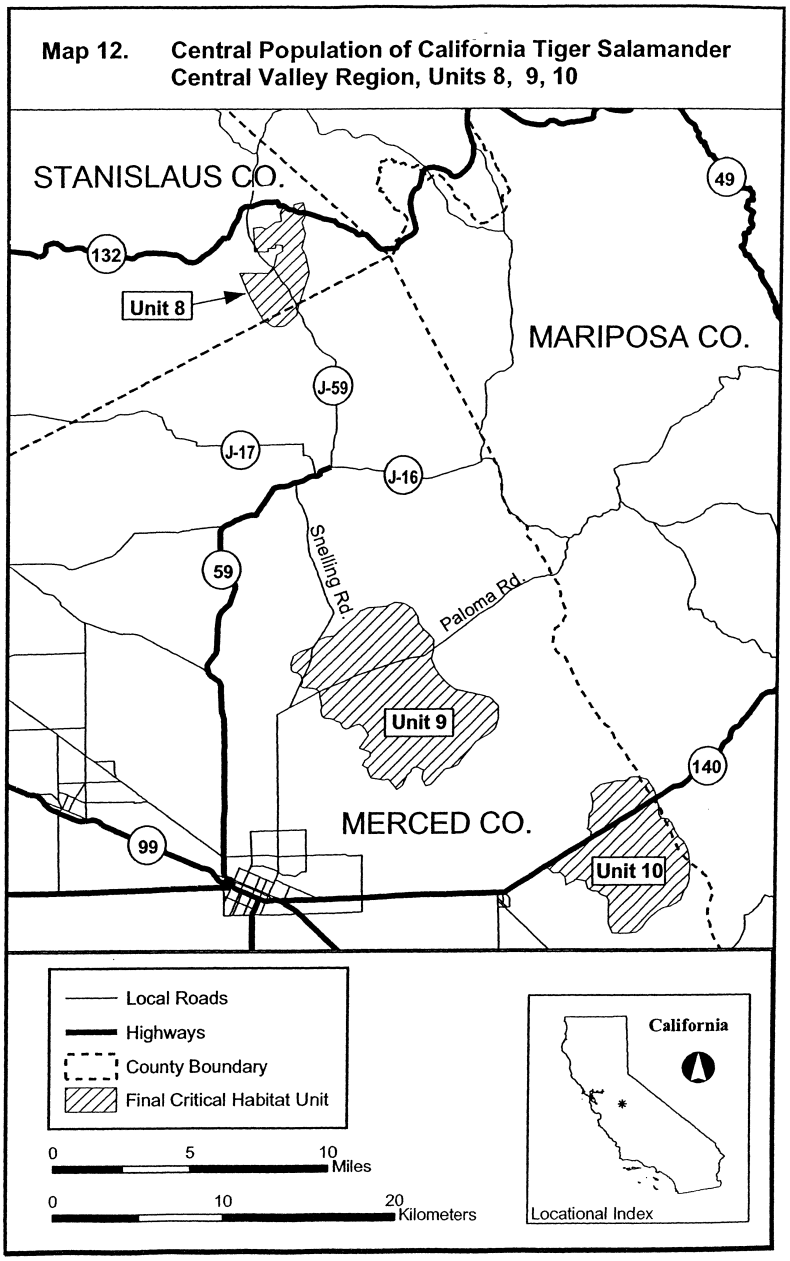
(i) From USGS 1:24,000 scale quadrangles Yosemite Lake, Haystack Mtn., Merced, and Planada. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 737111, 4141220; 736885, 4140606; 736578, 4140319; 735779, 4139868; 735411, 4139418; 735001, 4138885; 734755, 4138516; 734345, 4138352; 733977, 4138291; 733198, 4137390; 732850, 4137308; 732625, 4137738; 732707, 4138230; 732359, 4138414; 732133, 4138373; 731990, 4138230; 731969, 4138127; 731744, 4137922; 731457, 4137308; 731129, 4137082; 730904, 4137349; 730638, 4137697; 730310, 4137656; 729900, 4137717; 729593, 4137758; 729409, 4138127; 729368, 4138332; 729081, 4138516; 729224, 4138783; 729532, 4139008; 729511, 4139315; 729204, 4139418; 728897, 4139520; 729429, 4140278; 729224, 4140667; 728897, 4140933; 728692, 4140892; 728282, 4140708; 728118, 4140667; 727914, 4140729; 727729, 4141077; 727606, 4141077; 727442, 4141179; 727238, 4141282; 726848, 4141302; 726725, 4141445; 726643, 4141753; 726725, 4141937; 726562, 4142654; 726562, 4142838; 726439, 4142982; 726172, 4143084; 725660, 4143105; 725476, 4143187; 725599, 4143412; 725476, 4143822; 725333, 4143965; 725087, 4144026; 724943, 4144149; 724902, 4144477; 725066, 4144948; 725455, 4145235; 725968, 4145399; 726193, 4145522; 726480, 4145890; 726930, 4146095; 727381, 4146136; 727729, 4146485; 728180, 4146874; 728630, 4147263; 728897, 4147591; 729388, 4147795; 729900, 4147816; 730392, 4147857; 730945, 4148103; 731478, 4148021; 732010, 4147714; 732297, 4147283; 732338, 4146915; 732625, 4146525; 733034, 4146157; 733260, 4145890; 733260, 4145276; 733116, 4144784; 733362, 4144211; 733608, 4143801; 733854, 4143514; 734120, 4143289; 734550, 4142982; 735370, 4142797; 736189, 4142593; 736619, 4142470; 737111, 4141978; returning to 737111, 4141220.

(ii) Note: Central Valley Region, Unit 9 is depicted on Map 12—Units 8, 9, and 10—see paragraph (25)(ii):

(25) Central Valley Region: Unit 10, Merced County, California, and Mariposa County, California.

(i) From USGS 1:24,000 scale quadrangles Planada, and Owens Reservoir. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 745886, 4137625; 746150, 4137196; 746265, 4136981; 746447, 4136371; 746447, 4136305; 746529, 4136041; 746530, 4136009; 746546, 4135595; 746645, 4135364; 746760, 4135315; 746880, 4135309; 747140, 4135298; 747338, 4135067; 747519, 4134655; 747750, 4134226; 748031, 4133945; 748229, 4133533; 748311, 4133170; 748353, 4132808; 748361, 4132741; 748394, 4132625; 748394, 4132394; 748344, 4132047; 748328, 4131750; 748212, 4131371; 748064, 4131123; 747866, 4130579; 747684, 4130414; 747288, 4130232; 746826, 4130117; 746562, 4129952; 746100, 4129589; 745820, 4129275; 745605, 4128978; 745292, 4128714; 744863, 4128648; 744367, 4128632; 743856, 4128665; 743608, 4129209; 743608, 4129572; 743608, 4130232; 743641, 4130579; 743493, 4130793; 743179, 4130942; 743014, 4131107; 742684, 4131123; 742404, 4131255; 742288, 4131684; 742024, 4131750; 741727, 4131783; 741628, 4131684; 741150, 4131453; 741117, 4131932; 740820, 4132180; 740407, 4132163; 740061, 4132444; 740358, 4132757; 740589, 4132922; 740919, 4133153; 741249, 4133351; 741414, 4133417; 741826, 4133681; 742156, 4133929; 742585, 4134308; 742618, 4134556; 742371, 4134721; 742437, 4134853; 742470, 4135067; 742453, 4135331; 742486, 4135595; 742618, 4135727; 742668, 4135859; 742684, 4136255; 742668, 4136437; 742585, 4136800; 742783, 4136981; 742882, 4137097; 743146, 4137344; 743460, 4137410; 743740, 4137460; 744103, 4137559; 744450, 4137542; 744632, 4137592; 744863, 4137757; 745077, 4137790; 745393, 4137760; 745424, 4137757; returning to 745886, 4137625.

(ii) Note: Central Valley Region, Unit 10 is depicted on Map 12—Units 8, 9, and 10—which follows:

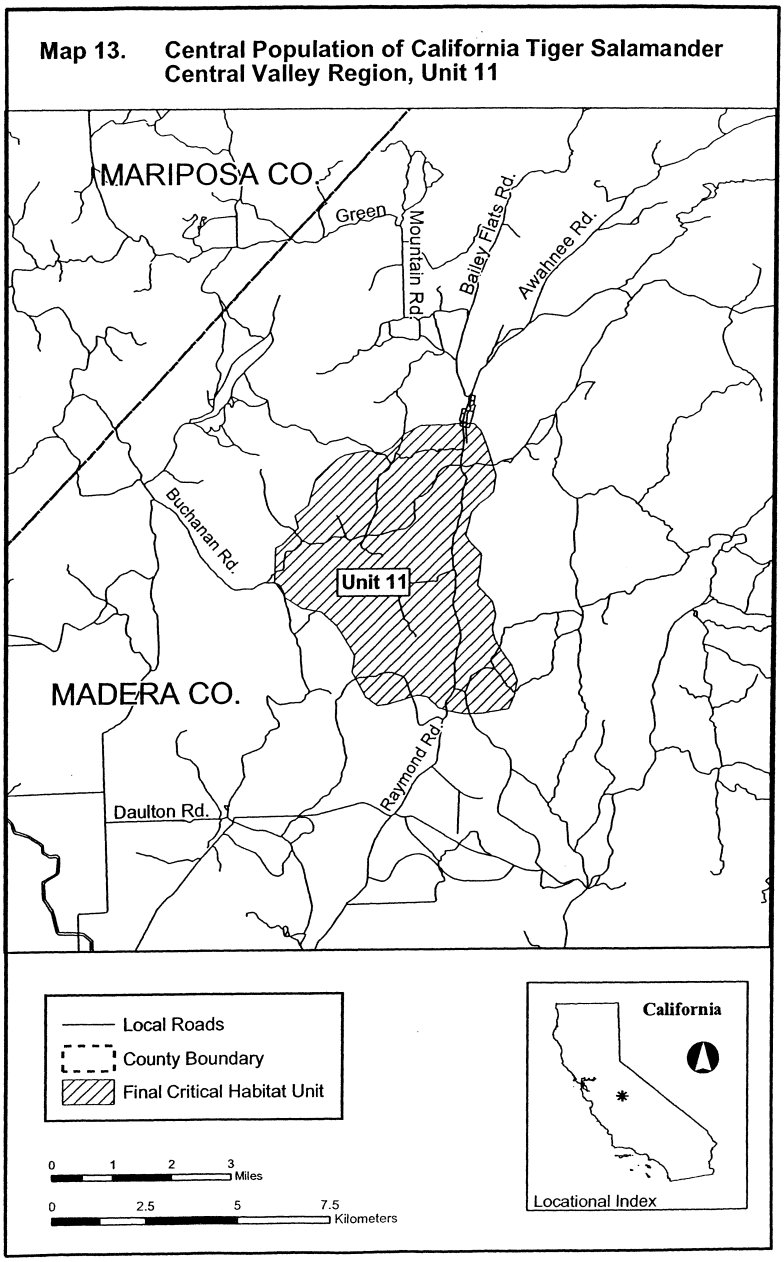


(26) Central Valley Region: Unit 11, Madera County, California.

(i) From USGS 1:24,000 scale quadrangle Raymond. Land bounded by the following UTM Zone 11, NAD83 coordinates (E,N): 236646, 4118534; 236735, 4119457; 236919, 4119535; 237364, 4119940; 237297, 4120289; 237671, 4120535; 237749, 4120814; 237895, 4121224; 238305, 4121557;

238526, 4121737; 238726, 4121829; 239329, 4121896; 239728, 4121811; 240005, 4121943; 240340, 4122266; 240817, 4122475; 241265, 4122461; 241503, 4122431; 241714, 4122463; 242088, 4122454; 242236, 4122430; 242404, 4122240; 242517, 4121903; 242649, 4121386; 242729, 4121007; 242656, 4120563; 242498, 4120423; 242265, 4120288; 242025, 4120049; 241933, 4119770; 241837, 4119447; 241973, 4119229; 242224, 4118929; 242164, 4118469; 242064, 4118071; 242454, 4117612; 242521, 4117249; 242406, 4116852; 242463, 4116564; 242691, 4116146; 242868, 4115880; 243004, 4115423; 242888, 4115011; 242718, 4114693; 241980, 4114620; 241532, 4114633; 241135, 4114733; 240843, 4114856; 240549, 4115174; 240283, 4115221; 239933, 4115138; 239492, 4115032; 239192, 4115021; 238894, 4115279; 238776, 4115541; 238564, 4115973; 238623, 4116194; 238668, 4116431; 238374, 4116988; 238226, 4117252; 237848, 4117650; 237318, 4117788; 236903, 4118099; 236797, 4118315; returning to 236646, 4118534.

(ii) Note: Map 13 (Central Valley Region, Unit 11) follows:

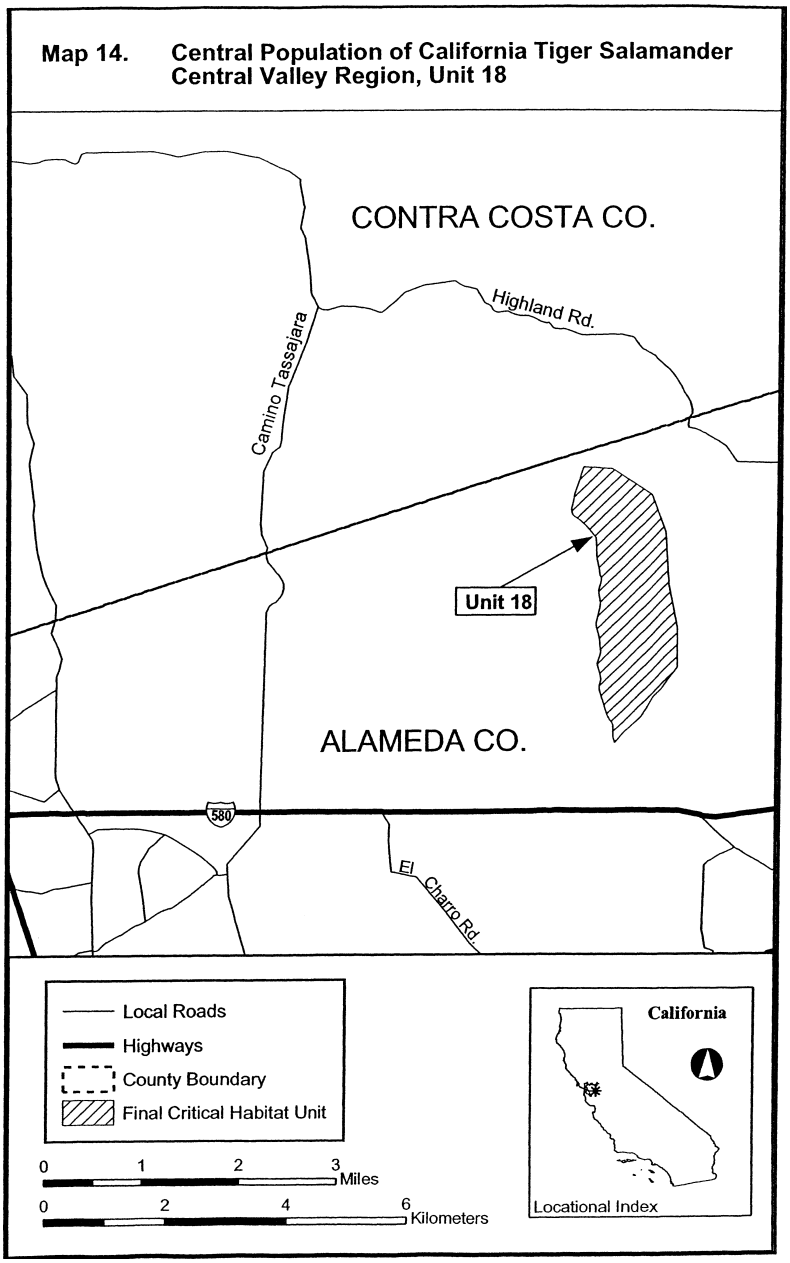


(27) Central Valley Region: Unit 18, Alameda County, California.

(i) From USGS 1:24,000 scale quadrangle Tassajara, and Livermore. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 606493, 4148131; 606445, 4148064; 606428, 4148018; 606432, 4147932; 606450, 4147848; 606466, 4147818; 606558, 4147771; 606599, 4147772;

606755, 4147834; 606834, 4147825; 606924, 4147745; 606959, 4147723; 606992, 4147438; 606865, 4146951; 606716, 4146634; 606357, 4146443; 606039, 4146380; 605807, 4146487; 605801, 4146507; 605762, 4146550; 605680, 4146592; 605678, 4146593; 605573, 4146697; 605446, 4146951; 605479, 4147194; 605495, 4147179; 605532, 4147116; 605552, 4147114; 605551, 4147218; 605591, 4147274; 605593, 4147302; 605461, 4147339; 605440, 4147342; 605404, 4147396; 605341, 4147607; 605300, 4147660; 605329, 4147701; 605322, 4147708; 605273, 4147694; 605244, 4147731; 605245, 4147738; 605236, 4147742; 605192, 4147798; 605044, 4148010; 605102, 4148319; 605127, 4148265; 605220, 4148111; 605251, 4148083; 605294, 4148086; 605431, 4148129; 605537, 4148188; 605655, 4148273; 605680, 4148317; 605768, 4148412; 605818, 4148448; 605900, 4148447; 605946, 4148417; 606075, 4148398; 606134, 4148371; 606201, 4148308; 606331, 4148228; 606492, 4148189; 606500, 4148167; returning to 606493, 4148131.

(ii) Note: Map 14 (Central Valley Region, Unit 18) follows:



(28) Southern San Joaquin Region: Unit 1a, Madera County, California.

(i) From USGS 1:24,000 scale quadrangles Little Table Mtn., Millerton Lake West, Lanes Bridge, and Friant. Land bounded by the following UTM Zone 11, NAD83 coordinates (E,N): 253140, 4094581; 253210, 4094842; 253281, 4095121; 253387, 4095398; 253645, 4095559;

253861, 4095616; 253852, 4096041; 253748, 4096349; 253653, 4096816; 253632, 4097047; 253685, 4097593; 253940, 4097984; 254341, 4098171; 254443, 4098377; 254346, 4098808; 254531, 4099222; 254727, 4099510; 254695, 4099849; 254591, 4100174; 254965, 4100204; 255341, 4100552; 255900, 4100711; 256220, 4100727; 256431, 4101262; 256505, 4101877; 256706, 4102254; 256840, 4102405; 257279, 4102626; 257811, 4102645; 258162, 4102587; 258498, 4102301; 258635, 4101955; 258734, 4101560; 258553, 4100933; 258138, 4100535; 257954, 4100347; 257908, 4100348; 257918, 4100725; 257542, 4100727; 257557, 4101144; 257113, 4101161; 256981, 4098268; 256639, 4098365; 255431, 4098363; 255427, 4097540; 256213, 4097523; 256203, 4096729; 254978, 4096742; 254920, 4094736; 254503, 4094762; 254503, 4094758; 253976, 4094771; 253976, 4094613; 253892, 4094501; 253919, 4094443; 253916, 4094397; 253914, 4094362; 253868, 4094365; 253822, 4094362; 253718, 4094252; 253710, 4094201; 253710, 4094200; 253701, 4094209; 253429, 4094386; 253140, 4094581.

(ii) Note: Southern San Joaquin Region, Unit 1a is depicted on—Units 1a, 1b, and 2—see paragraph (30)(ii).

(29) Southern San Joaquin Region: Unit 1b, Madera County, California.

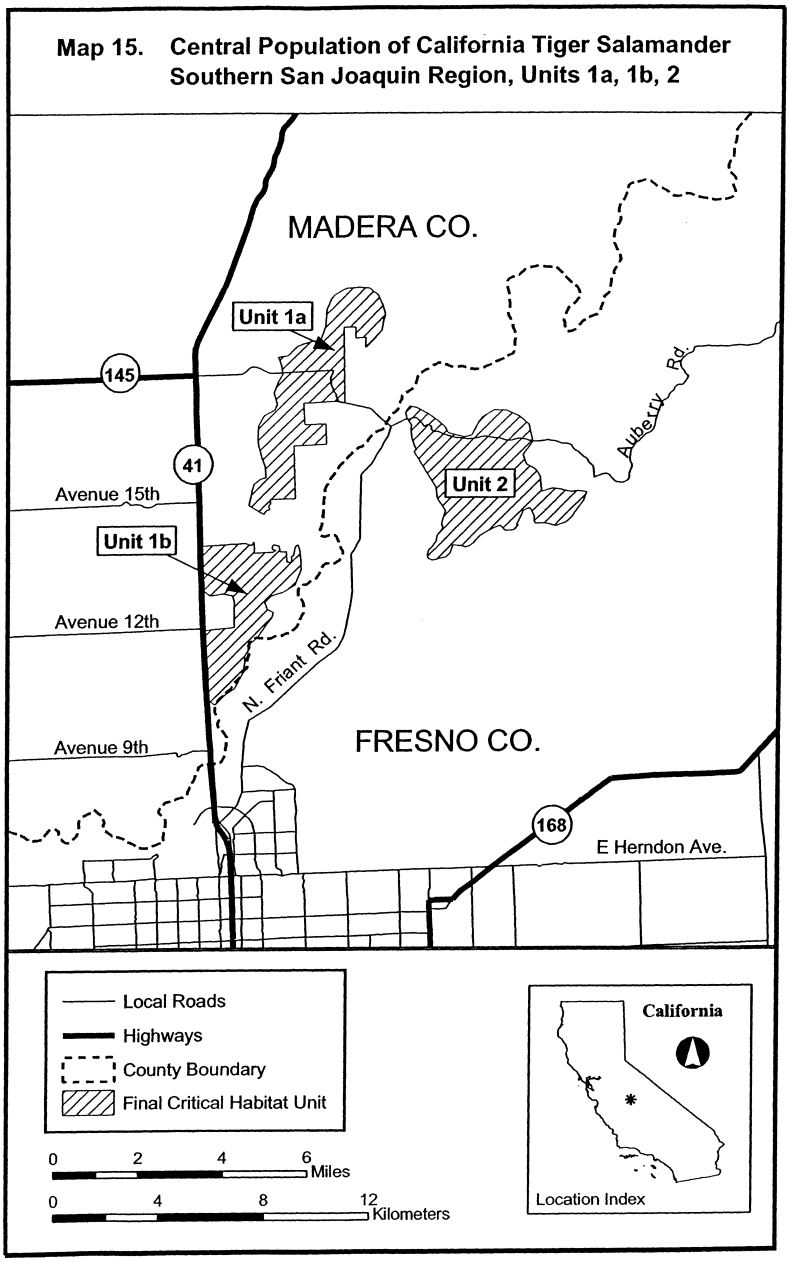
(i) From USGS 1:24,000 scale quadrangle Lanes Bridge. Land bounded by the following UTM Zone 11, NAD83 coordinates (E,N): 251184, 4092207; 251205, 4092542; 251262, 4093159; 252944, 4093159; 253152, 4093075; 253259, 4093191; 253246, 4093164; 253246, 4092760; 253951, 4092757; 254008, 4092773; 254065, 4092790; 254068, 4092831; 254018, 4092849; 253977, 4092852; 253939, 4092895; 253937, 4092936; 253960, 4092986; 253988, 4093030; 254024, 4093028; 254075, 4093024; 254098, 4092992; 254134, 4092985; 254195, 4092981; 254190, 4092910; 254216, 4092832; 254223, 4092791; 254226, 4092744; 254465, 4092734; 254461, 4092342; 254633, 4092331; 254636, 4092535; 254698, 4092551; 254738, 4092615; 254757, 4092670; 254772, 4092746; 254777, 4092832; 254817, 4092901; 254877, 4092959; 254914, 4092978; 254971, 4092712; 254985, 4092375; 254980, 4092021; 254713, 4091436; 254292, 4091214; 253805, 4091086; 253542, 4090837; 253614, 4090584; 253836, 4090446; 253770, 4090238; 253503, 4089936; 253348, 4089733; 253173, 4089528; 253141, 4089490; 253105, 4089475; 252915, 4089348; 252875, 4089294; 252838, 4089192; 252842, 4089126; 252835, 4089116; 252636, 4088822; 252641, 4088627; 252573, 4088288; 252564, 4088242; 252170, 4087611; 251840, 4087437; 251615, 4087239; 251458, 4087089; 251407, 4087039; 251122, 4087288; 251185, 4087726; 251211, 4088132; 251215, 4088486; 251168, 4088861; 251100, 4089184; 251100, 4089751; 251111, 4089927; 251999, 4089960; 252301, 4089976; 252328, 4090400; 252364, 4090982; 252307, 4091198; 251941, 4091292; 251477, 4091232; 251191, 4091481; 251185, 4091658; returning to 251184, 4092207.

(ii) Note: Southern San Joaquin Region, Unit 1b is depicted on Map 15—Units 1A, 1B, and 2—see paragraph (30)(ii).

(30) Southern San Joaquin Region: Unit 2, Fresno County, California.

(i) From USGS 1:24,000 scale quadrangle Friant. Land bounded by the following UTM Zone 11, NAD83 coordinates (E,N): 259307, 4097734; 259442, 4097902; 259483, 4097988; 259743, 4097901; 260153, 4097663; 260490, 4097393; 260773, 4097110; 260916, 4096853; 261506, 4096656; 261810, 4096708; 262107, 4097203; 262261, 4097388; 262718, 4097625; 263193, 4097577; 263655, 4097318; 263988, 4096978; 264104, 4096298; 263703, 4095827; 263821, 4095465; 264110, 4095270; 264211, 4095169; 264294, 4094979; 264329, 4094398; 264769, 4094484; 264988, 4094446; 265443, 4094298; 265672, 4094337; 266030, 4094264; 265865, 4093902; 265521, 4093499; 265441, 4093345; 265199, 4093165; 264774, 4093047; 264401, 4093181; 264044, 4093188; 263971, 4093270; 264002, 4093471; 263856, 4093802; 263594, 4093711; 263462, 4093422; 263323, 4093192; 263373, 4093166; 263222, 4092989; 262867, 4092976; 262704, 4093198; 262451, 4093108; 262142, 4092986; 261885, 4092843; 261639, 4092593; 261510, 4092512; 261139, 4092518; 260841, 4092572; 260715, 4092261; 260534, 4092127; 260512, 4092123; 260039, 4092041; 259874, 4092120; 259842, 4092143; 259838, 4092231; 259887, 4092407; 259978, 4092494; 260034, 4092547; 260200, 4092731; 260241, 4092941; 260482, 4093245; 260433, 4093402; 260625, 4093897; 260461, 4094183; 260327, 4094416; 260317, 4094701; 260313, 4094838; 259541, 4096215; 259541, 4096227; 259623, 4096279; 259542, 4096507; 259542, 4096570; 259485, 4096704; 259472, 4096979; 259490, 4097262; 259412, 4097426; 259331, 4097555; returning to 259307, 4097734.

(ii) Note: Southern San Joaquin Valley Region, Unit 2 is depicted on Map 15—Units 1a, 1b, and 2—which follows:



(31) Southern San Joaquin Region: Unit 3a, Fresno County, California.

(i) From USGS 1:24,000 scale quadrangle Orange Cove North. Land bounded by the following UTM Zone 11, NAD83 coordinates (E,N): 290111, 4064680; 291311, 4064655; 292277, 4064495; 292897, 4064406; 293304, 4064906; 293877, 4065270; 294584, 4065309; 294577, 4064940; 294973,

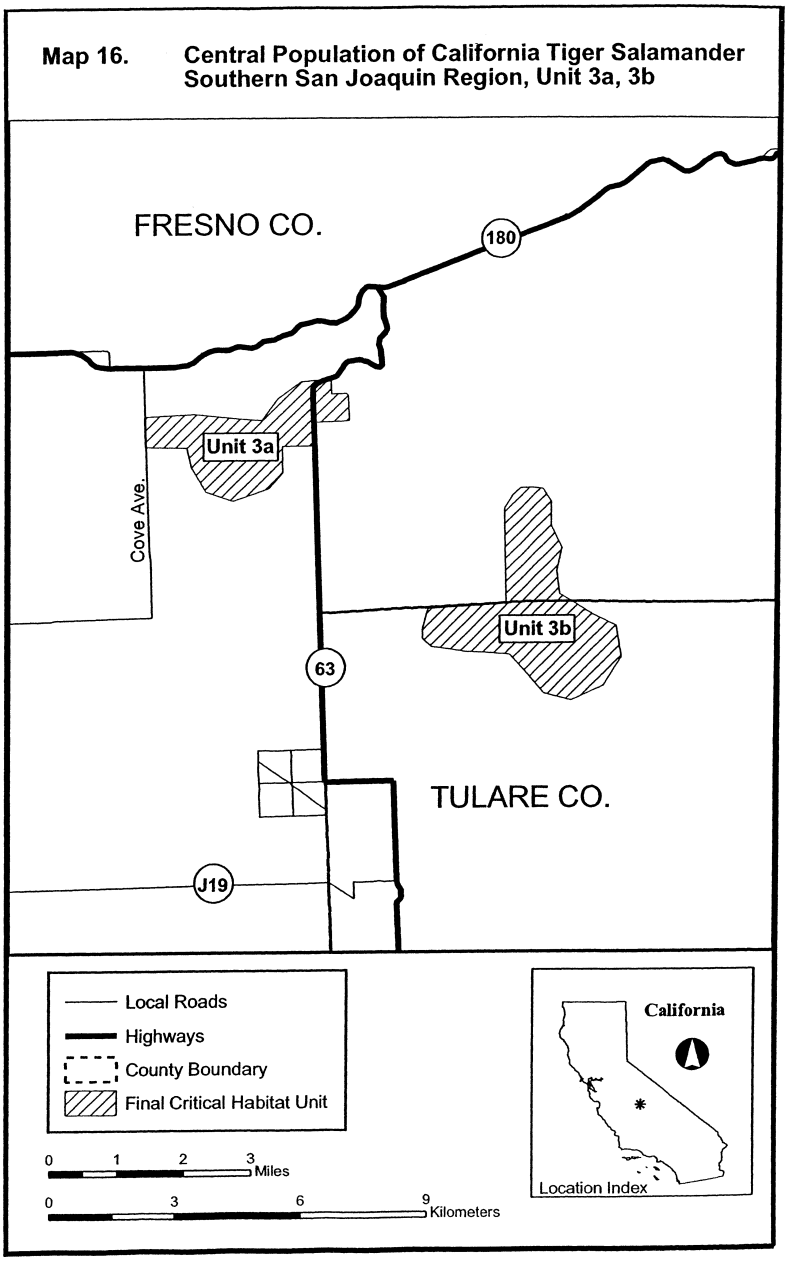
4064926; 294962, 4064261; 294150, 4064279; 294132, 4063716; 293340, 4063754; 293311, 4063118; 292970, 4062774; 292103, 4062528; 291469, 4062793; 291158, 4063413; 291086, 4063868; 290091, 4063956; returning to 290111, 4064680.

(ii) Note: Southern San Joaquin Region, Unit 3a is depicted on Map 16—Units 3A and 3B—see paragraph (32)(ii).

(32) Southern San Joaquin Region: Unit 3b, Fresno County, California, and Tulare County, California.

(i) From USGS 1:24,000 scale quadrangles Orange Cove North, and Tucker Mtn. Land bounded by the following UTM Zone 11, NAD83 coordinates (E,N): 296384, 4058957; 296398, 4059181; 296564, 4059658; 298431, 4059652; 298432, 4059676; 298529, 4061925; 298738, 4062217; 298933, 4062407; 299169, 4062400; 299471, 4062349; 299655, 4062030; 299619, 4061457; 299860, 4060916; 299700, 4060350; 299740, 4059797; 300013, 4059606; 300483, 4059275; 301039, 4058965; 301116, 4058185; 300650, 4057538; 299855, 4057238; 299218, 4057453; 298847, 4057926; 298453, 4058427; 297933, 4058509; 297411, 4058567; 297115, 4058636; 296596, 4058743; returning to 296384, 4058957.

(ii) Note: Southern San Joaquin Valley Region, Unit 3b is depicted on Map 16—Units 3a and 3b—which follows:

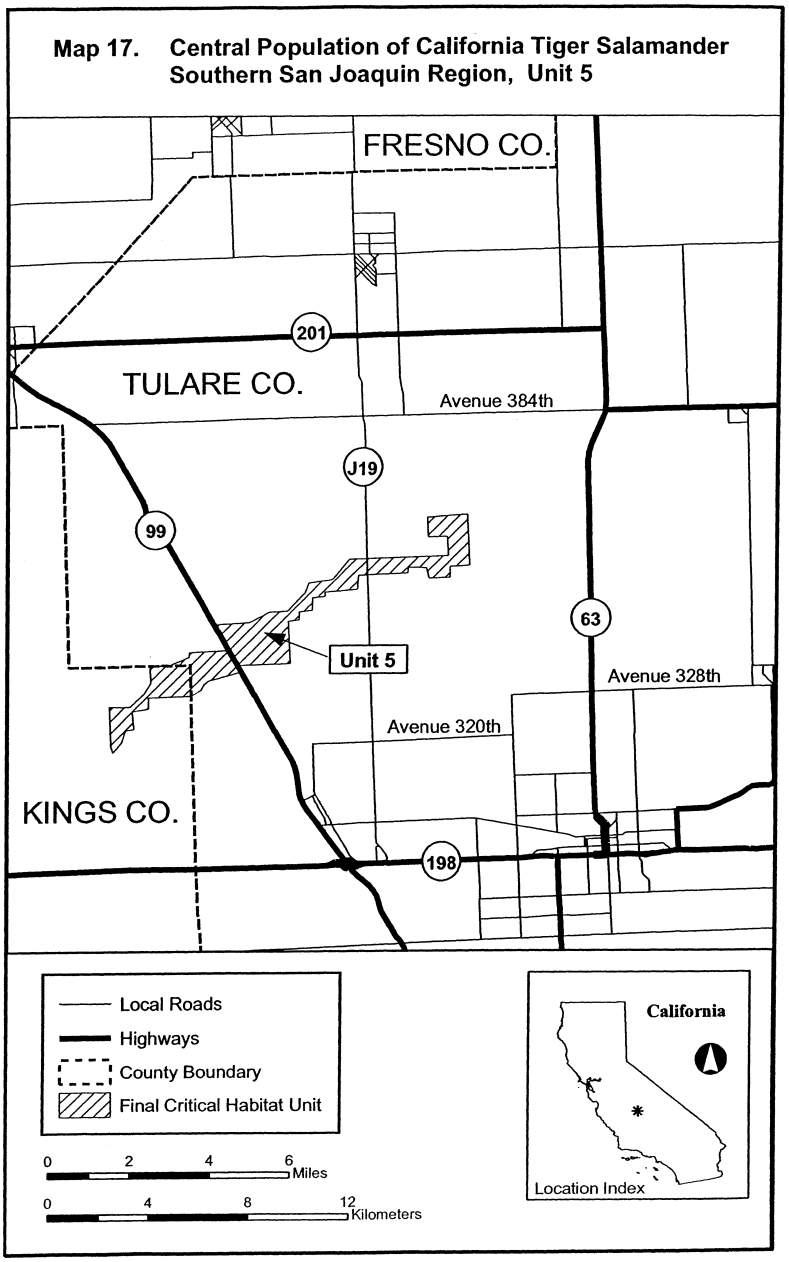


(33) Southern San Joaquin Region: Unit 5, Kings County, California, and Tulare County, California.

(i) From USGS 1:24,000 scale quadrangles Burris Park, Traver, Monson, and Remnoy. Land bounded by the following UTM Zone 11, NAD83 coordinates (E,N): 274730, 4029784;

275563, 4029744; 276147, 4030226; 276443, 4030631; 276461, 4031301; 277082, 4031301; 277215, 4031301; 278021, 4031581; 278032, 4031768; 279633, 4031751; 279157, 4032817; 280534, 4032802; 281370, 4033174; 282087, 4033164; 282812, 4033837; 282978, 4034239; 283924, 4034298; 284654, 4035065; 288568, 4034950; 288557, 4035728; 287806, 4035763; 287831, 4036538; 289234, 4036569; 289420, 4036545; 289388, 4034511; 288623, 4034511; 288596, 4034089; 287738, 4034107; 287670, 4034524; 286957, 4034603; 286918, 4034358; 284966, 4034398; 284896, 4033837; 283612, 4033835; 283601, 4033647; 283093, 4033631; 283051, 4033140; 282531, 4033101; 282523, 4032784; 282074, 4032765; 282062, 4031058; 280018, 4031127; 280070, 4030841; 278735, 4030571; 278537, 4030418; 278407, 4030226; 278030, 4030026; 278008, 4030027; 276325, 4030062; 276285, 4029617; 275634, 4029551; 275660, 4028843; 275341, 4028816; 275122, 4028323; 274758, 4027969; 274702, 4028196; returning to 274730, 4029784.

(ii) Note: Map 17 (Southern San Joaquin Valley Region, Unit 5) follows:

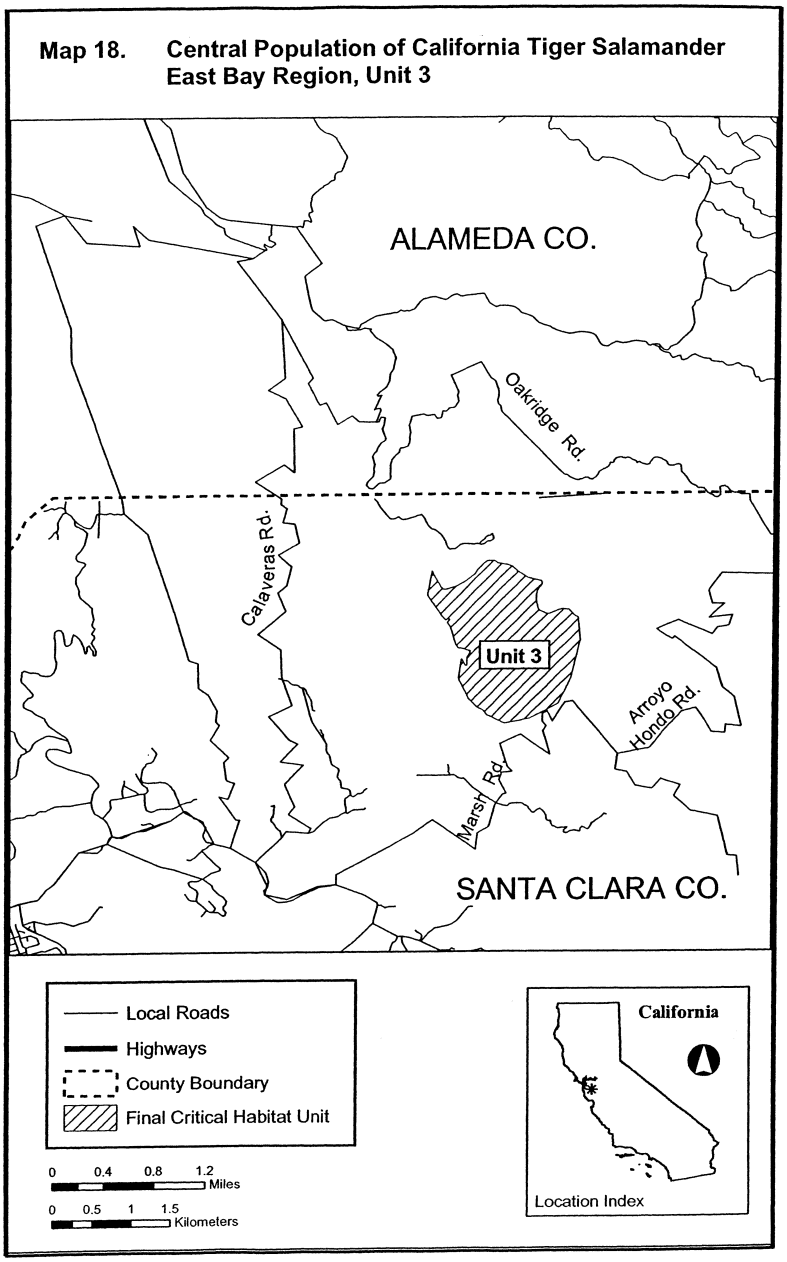


(34) East Bay Region: Unit 3, Santa Clara County, California.

(i) From USGS 1:24,000 scale quadrangle Calaveras Reservoir. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 606493, 4148131; 606445, 4148064; 606428, 4148018; 606432, 4147932; 606450, 4147848; 606466, 4147818; 606558, 4147771; 606599, 4147772; 606755,

4147834; 606834, 4147825; 606924, 4147745; 606959, 4147723; 606992, 4147438; 606865, 4146951; 606716, 4146634; 606357, 4146443; 606039, 4146380; 605807, 4146487; 605801, 4146507; 605762, 4146550; 605680, 4146592; 605678, 4146593; 605573, 4146697; 605446, 4146951; 605479, 4147194; 605495, 4147179; 605532, 4147116; 605552, 4147114; 605551, 4147218; 605591, 4147274; 605593, 4147302; 605461, 4147339; 605440, 4147342; 605404, 4147396; 605341, 4147607; 605300, 4147660; 605329, 4147701; 605322, 4147708; 605273, 4147694; 605244, 4147731; 605245, 4147738; 605236, 4147742; 605192, 4147798; 605044, 4148010; 605102, 4148319; 605127, 4148265; 605220, 4148111; 605251, 4148083; 605294, 4148086; 605431, 4148129; 605537, 4148188; 605655, 4148273; 605680, 4148317; 605768, 4148412; 605818, 4148448; 605900, 4148447; 605946, 4148417; 606075, 4148398; 606134, 4148371; 606201, 4148308; 606331, 4148228; 606492, 4148189; 606500, 4148167; returning to 606493, 4148131.

(ii) Note: Map 18 (East Bay Region, Unit 3) follows:



(35) East Bay Region: Unit 5, Santa Clara County, California.

(i) From USGS 1:24,000 scale quadrangles Calaveras Reservoir, and Mt. Day. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 611993, 4142407; 612080, 4142353; 612254, 4142429; 612417, 4142559; 612570, 4142679; 612668, 4142744; 612896, 4142712;

613157, 4142614; 613375, 4142483; 613560, 4142265; 613625, 4142113; 613669, 4141950; 613778, 4141819; 613963, 4141656; 614180, 4141406; 614246, 4141123; 614333, 4140851; 614267, 4140513; 614300, 4140296; 614191, 4139991; 614061, 4139795; 613832, 4139599; 613691, 4139480; 613527, 4139458; 613299, 4139534; 613081, 4139599; 612983, 4139686; 612809, 4139774; 612613, 4139752; 612504, 4139861; 612439, 4139948; 612254, 4139893; 612091, 4139991; 611971, 4140067; 610905, 4139741; 610208, 4139850; 609588, 4140546; 609621, 4141188; 609936, 4141656; 610415, 4141950; 610698, 4142026; 610763, 4142396; 610850, 4142570; 611025, 4142777; 611177, 4142918; 611340, 4142951; 611612, 4142799; 611884, 4142570; returning to 611993, 4142407.

(ii) Note: East Bay Region, Unit 5 is depicted on Map 19—Units 5, 6, 7, and 8—see paragraph (38)(ii).

(36) East Bay Region: Unit 6, Santa Clara County, California.

(i) From USGS 1:24,000 scale quadrangles Lick Observatory, and Isabel Valley. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 622442, 4134132; 622178, 4133537; 621384, 4132677; 620789, 4132346; 620326, 4131817; 619664, 4131156; 619003, 4131090; 618341, 4130891; 617283, 4130957; 616688, 4131553; 616489, 4132413; 615894, 4132876; 614769, 4133206; 613976, 4133008; 613248, 4133008; 612520, 4133140; 611793, 4133537; 611197, 4134198; 611131, 4135058; 612057, 4135654; 613050, 4135786; 613711, 4135852; 614637, 4135786; 615629, 4135654; 616026, 4135257; 616158, 4134860; 616555, 4134397; 617283, 4134198; 617746, 4133802; 618540, 4134000; 619069, 4134595; 620061, 4135654; 620921, 4135852; 621847, 4135786; 622442, 4135455; 622905, 4134661; returning to 622442, 4134132.

(ii) Note: East Bay Region, Unit 6 is depicted on Map 19—Units 5, 6, 7, and 8—see paragraph (38)(ii).

(37) East Bay Region: Unit 7, Santa Clara County, California.

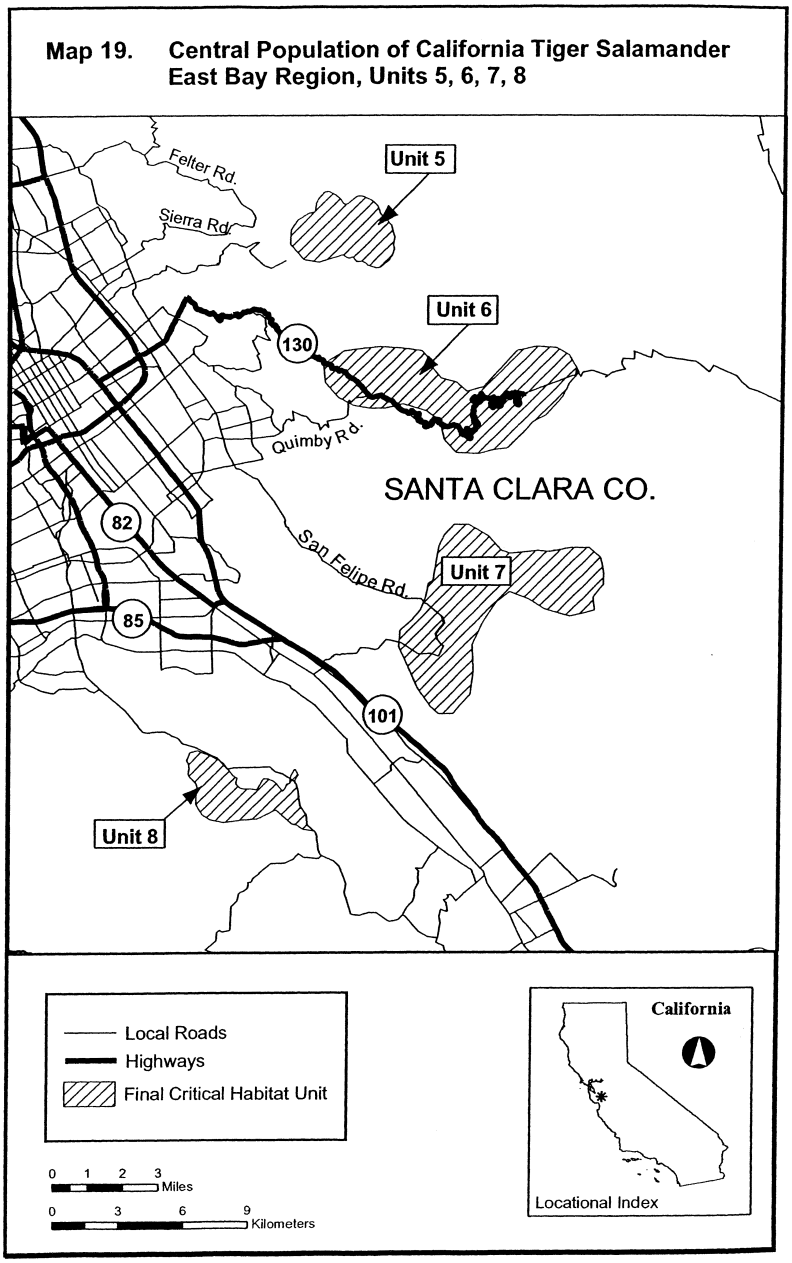
(i) From USGS 1:24,000 scale quadrangles Lick Observatory, Isabel Valley, Morgan Hill, and Mt. Sizer. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 619400, 4126459; 619796, 4126327; 621053, 4126459; 621582, 4126393; 622641, 4126592; 623434, 4126592; 623964, 4126129; 624096, 4125467; 624096, 4124872; 623633, 4124277; 623699, 4123681; 622575, 4123417; 621384, 4123747; 620656, 4124210; 619796, 4124541; 619201, 4124078; 618540, 4123086; 618077, 4122094; 618143, 4120837; 618010, 4119779; 617217, 4118919; 616555, 4118919; 616158, 4119249; 615563, 4120043; 615100, 4121035; 614637, 4122028; 614703, 4122755; 615232, 4123218; 615629, 4123681; 615894, 4124343; 616026, 4124938; 616225, 4125070; 616489, 4126658; 616754, 4127187; 617217, 4127650; 617878, 4127650; 618804, 4127121; returning to 619400, 4126459.

(ii) Note: East Bay Region, Unit 7 is depicted on Map 19—Units 5, 6, 7, and 8—see paragraph (38)(ii).

(38) East Bay Region: Unit 8, Santa Clara County, California.

(i) From USGS 1:24,000 scale quadrangle Santa Teresa Hills. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 607465, 4115477; 607584, 4115457; 607783, 4115457; 607902, 4115457; 608219, 4115417; 608517, 4115913; 608735, 4115913; 608973, 4115834; 609112, 4115695; 609291, 4115497; 609410, 4115338; 609529, 4115536; 609588, 4115675; 609727, 4115715; 609707, 4115834; 609767, 4116052; 609866, 4116211; 609927, 4116356; 609946, 4116348; 609990, 4116306; 610036, 4116246; 610131, 4116099; 610087, 4116065; 609930, 4115808; 609958, 4115742; 610012, 4115687; 610086, 4115410; 610096, 4115322; 610135, 4115089; 610138, 4115056; 610146, 4114967; 610194, 4114679; 610388, 4114391; 610474, 4114261; 610507, 4113796; 610840, 4113506; 610342, 4113592; 610045, 4113770; 609807, 4113850; 609092, 4114485; 608239, 4114068; 607584, 4114008; 606691, 4113909; 606036, 4114028; 605699, 4114266; 605401, 4114763; 605421, 4115080; 605461, 4115556; 605401, 4115715; 605123, 4115993; 605024, 4116152; 605084, 4116449; 605024, 4116648; 604945, 4116767; 605123, 4117144; 605481, 4117223; 605758, 4117104; 606076, 4116985; 606393, 4116826; 606671, 4116668; 606830, 4116449; 607108, 4116072; 607306, 4115953; 607247, 4115775; 607247, 4115695; 607346, 4115576; returning to 607465, 4115477.

(ii) Note: East Bay Region, Unit 6 is depicted on Map 19—Units 5, 6, 7, and 8—which follows:



(39) East Bay Region: Unit 9, Santa Clara County, California.

(i) From USGS 1:24,000 scale quadrangles Gilroy. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 631716, 4102121; 631597, 4102061; 631279, 4102081; 630982, 4102220; 630644, 4102478; 630466, 4102915; 630466, 4103312; 630545, 4103669; 630823, 4103966; 631061,

4104205; 631220, 4104324; 631418, 4104621; 631418, 4104760; 631101, 4104978; 630922, 4105177; 630525, 4105673; 630347, 4106110; 630307, 4106506; 630188, 4106784; 630029, 4107280; 630267, 4107558; 630466, 4107657; 630704, 4107836; 631021, 4108015; 631299, 4108074; 631608, 4108074; 632003, 4107936; 632368, 4107679; 632506, 4107363; 632605, 4107017; 632921, 4105822; 632990, 4105289; 632704, 4104716; 632506, 4104410; 632487, 4103985; 632704, 4103531; 632743, 4103156; 632664, 4102879; 632566, 4102682; 632368, 4102405; 632093, 4102121; returning to 631716, 4102121.

(ii) Note: East Bay Region, Unit 9 is depicted on Map 20—Units 9, 10a, 10b, 11, and 12—see paragraph (43)(ii).

(40) East Bay Region: Unit 10a, Santa Clara County, California.

(i) From USGS 1:24,000 scale quadrangle Mt. Madonna. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 621036, 4103975; 620814, 4103967; 620501, 4104023; 620498, 4104024; 620493, 4104030; 620454, 4104197; 620640, 4104325; 620875, 4104403; 620983, 4104462; 621101, 4104491; 621238, 4104580; 621415, 4104727; 621611, 4104854; 621807, 4104903; 622072, 4104707; 622162, 4104667; 622146, 4104640; 621926, 4104390; 621741, 4104273; 621587, 4104150; 621234, 4104025; returning to 621036, 4103975.

(ii) Note: East Bay Region, Unit 10a is depicted on Map 20—Units 9, 10a, 10b, 11, and 12—see paragraph (43)(ii).

(41) East Bay Region: Unit 10b, Santa Clara County, California.

(i) From USGS 1:24,000 scale quadrangles Gilroy, and Mt. Madonna. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 623013, 4101932; 623082, 4101638; 623121, 4101363; 623131, 4100981; 623033, 4100804; 622895, 4100755; 622758, 4100657; 622591, 4100500; 622573, 4100477; 622408, 4100545; 622373, 4100472; 622228, 4100526; 622167, 4100637; 622181, 4100752; 622102, 4100840; 621967, 4100895; 621852, 4101162; 621524, 4101274; 621477, 4101239; 621444, 4101255; 621189, 4101265; 621022, 4101353; 620787, 4101520; 620777, 4101706; 620885, 4101922; 620910, 4101980; 620947, 4101966; 621114, 4101924; 621263, 4101903; 621314, 4101852; 621397, 4101845; 621533, 4101885; 621594, 4102028; 621627, 4102049; 621676, 4102210; 621751, 4102302; 621833, 4102372; 621944, 4102424; 622126, 4102445; 622288, 4102596; 622376, 4102520; 622601, 4102442; 622788, 4102334; 622935, 4102158; returning to 623013, 4101932.

(ii) Note: East Bay Region, Unit 10b is depicted on Map 20—Units 9, 10a, 10b, 11, and 12—see paragraph (43)(ii).

(42) East Bay Region: Unit 11, Santa Clara County, California.

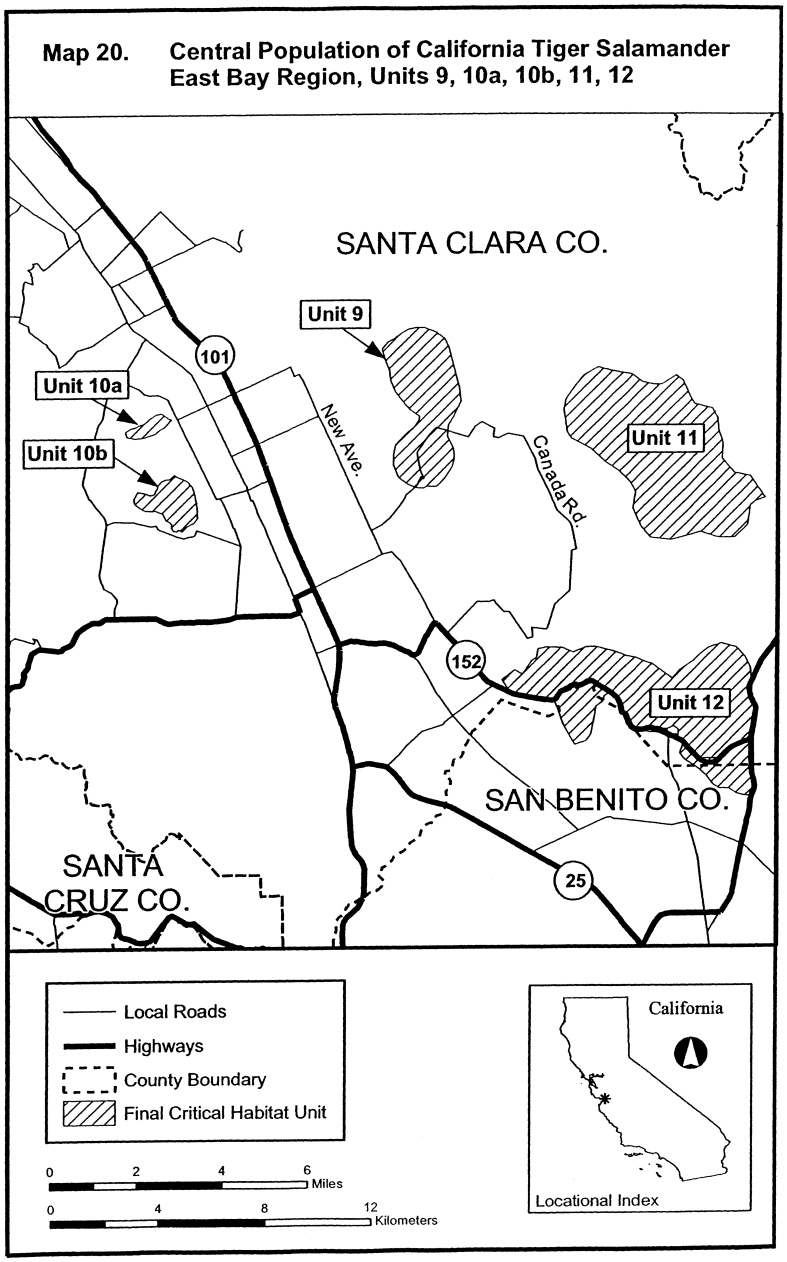
(i) From USGS 1:24,000 scale quadrangle Gilroy Hot Springs. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N):639775, 4106027; 640158, 4105923; 640506, 4105923; 641028, 4106271; 641272, 4106062; 641550, 4105471; 641724, 4105192; 642385, 4105018; 642594, 4104670; 642629, 4104183; 642803, 4103730; 642768, 4103138; 643221, 4102616; 643847, 4102477; 644404, 4101676; 644056, 4101537; 643847, 4101363; 643743, 4100632; 643256, 4100180; 642629, 4100180; 641968, 4100388; 641376, 4100214; 640854, 4100075; 640088, 4100180; 639740, 4100597; 639427, 4101259; 639531, 4101920; 639322, 4102268; 638905, 4102686; 638417, 4102999; 637860, 4103521; 637129, 4103904; 636990, 4104148; 636851, 4104983; 636920, 4105366; 637129, 4105679; 637582, 4106271; 638139, 4106584; 638626, 4106445; 639009, 4106376; 639392, 4106306; returning to 639775, 4106027.

(ii) Note: East Bay Region, Unit 11 is depicted on Map 20—Units 9, 10a, 10b, 11, and 12—see paragraph (43)(ii).

(43) East Bay Region: Unit 12, Santa Clara County, California.

(i) From USGS 1:24,000 scale quadrangles Gilroy Hot Springs, and San Felipe. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 643914, 4095004; 643892, 4094772; 643829, 4094369; 643956, 4093946; 644013, 4093764; 644006, 4093721; 644006, 4093721; 643977, 4093529; 643977, 4093529; 643891, 4092970; 643891, 4092969; 643891, 4092969; 643890, 4092963; 643849, 4092776; 643849, 4092775; 643848, 4092770; 643848, 4092768; 643832, 4092624; 643832, 4092620; 643832, 4092615; 643832, 4092614; 643837, 4092282; 643838, 4092065; 643838, 4091759; 643837, 4091756; 643835, 4091751; 643834, 4091746; 643832, 4091741; 643832, 4091736; 643831, 4091731; 643831, 4091726; 643831, 4091722; 643831, 4091719; 643842, 4091603; 643851, 4091516; 643851, 4091516; 643854, 4091478; 643856, 4091367; 643856, 4091367; 643856, 4091358; 643856, 4091355; 643857, 4091350; 643858, 4091345; 643858, 4091342; 643929, 4091037; 643974, 4090778; 643946, 4090690; 643913, 4090588; 643897, 4090567; 643894, 4090563; 643891, 4090559; 643889, 4090555; 643887, 4090550; 643887, 4090549; 643885, 4090546; 643885, 4090545; 643859, 4090480; 643830, 4090454; 643640, 4090475; 643365, 4090560; 643069, 4090729; 642709, 4090729; 642497, 4090878; 642370, 4091026; 642222, 4091216; 641989, 4091428; 641800, 4091569; 641735, 4091618; 641418, 4091809; 641227, 4092063; 641312, 4092317; 641333, 4092550; 641143, 4092656; 641164, 4092952; 640994, 4093079; 640993, 4093078; 640782, 4092994; 640529, 4092994; 640528, 4092994; 640527, 4092994; 640379, 4092846; 640042, 4092867; 639767, 4092888; 639534, 4092922; 639470, 4092931; 639415, 4092984; 639320, 4093078; 639172, 4093438; 639123, 4093490; 639085, 4093565; 639045, 4093645; 638953, 4093932; 638852, 4094180; 638579, 4094348; 638410, 4094221; 638357, 4094075; 638356, 4094072; 638325, 4093988; 638108, 4093823; 638054, 4093568; 638023, 4093382; 637914, 4092762; 637744, 4092545; 637310, 4092402; 636884, 4093142; 636699, 4093626; 636543, 4094032; 634886, 4094373; 634553, 4094838; 635056, 4095202; 635335, 4095039; 635676, 4095551; 635869, 4095659; 635916, 4095992; 636218, 4096062; 636815, 4096054; 637246, 4095872; 637712, 4096063; 638093, 4096084; 638833, 4095893; 639236, 4095724; 639553, 4095661; 639913, 4095512; 640146, 4095428; 640590, 4095110; 640929, 4094877; 640930, 4094879; 640931, 4094878; 641248, 4095217; 641481, 4095365; 641672, 4095513; 641968, 4095767; 642307, 4096021; 642771, 4096190; 643342, 4096042; 643660, 4095682; 643871, 4095280; returning to 643914, 4095004.

(ii) Note: East Bay Region, Unit 12 is depicted on Map 20—Units 9, 10a, 10b, 11, and 12—which follows:

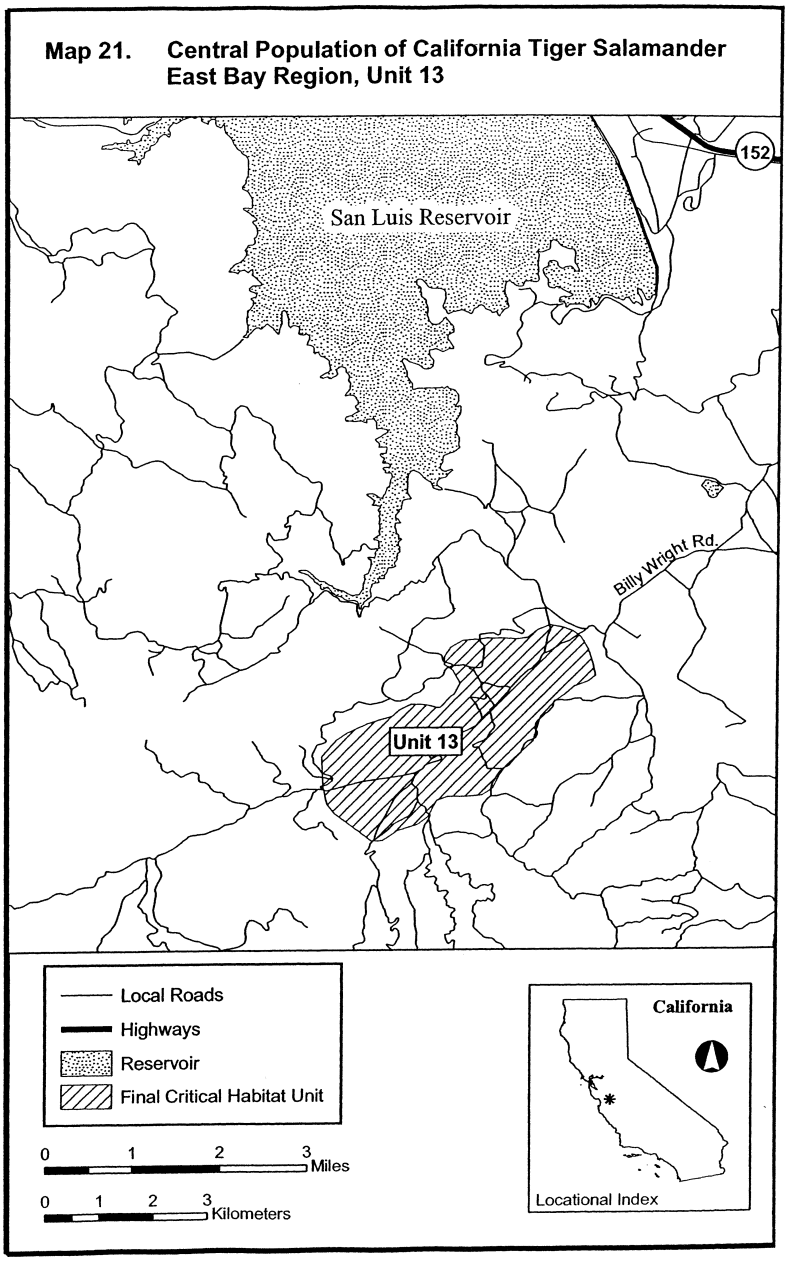


(44) East Bay Region: Unit 13, Merced County, California.

(i) From USGS 1:24,000 scale quadrangles Mariposa Peak, and Los Banos Valley. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N):670740, 4094185; 670879, 4093959; 670965, 4093691; 671019, 4093455; 670890, 4093358; 670632, 4093262; 670450, 4093101;

670299, 4093004; 670171, 4092864; 670010, 4092703; 669870, 4092242; 669645, 4092038; 669387, 4091802; 669248, 4091609; 669140, 4091383; 668947, 4091254; 668636, 4091233; 668314, 4091233; 668099, 4091169; 667949, 4090868; 667756, 4090729; 667380, 4090611; 667090, 4090428; 666886, 4090417; 666682, 4090568; 666210, 4090922; 666060, 4091104; 665996, 4091437; 665963, 4091974; 666232, 4092285; 666457, 4092424; 666800, 4092585; 667058, 4092661; 667273, 4092725; 667402, 4092832; 667616, 4092940; 667874, 4092929; 668153, 4092875; 668357, 4093079; 668421, 4093122; 668529, 4093326; 668400, 4093562; 668228, 4093669; 668228, 4093809; 668357, 4093991; 668582, 4094120; 668786, 4094131; 668872, 4094131; 668990, 4094152; 669173, 4094152; 669334, 4094152; 669559, 4094142; 669763, 4094163; 669956, 4094313; 670181, 4094399; 670439, 4094346; 670589, 4094292; returning to 670740, 4094185.

(ii) Note: Map 21 (East Bay Region, Unit 13) follows:

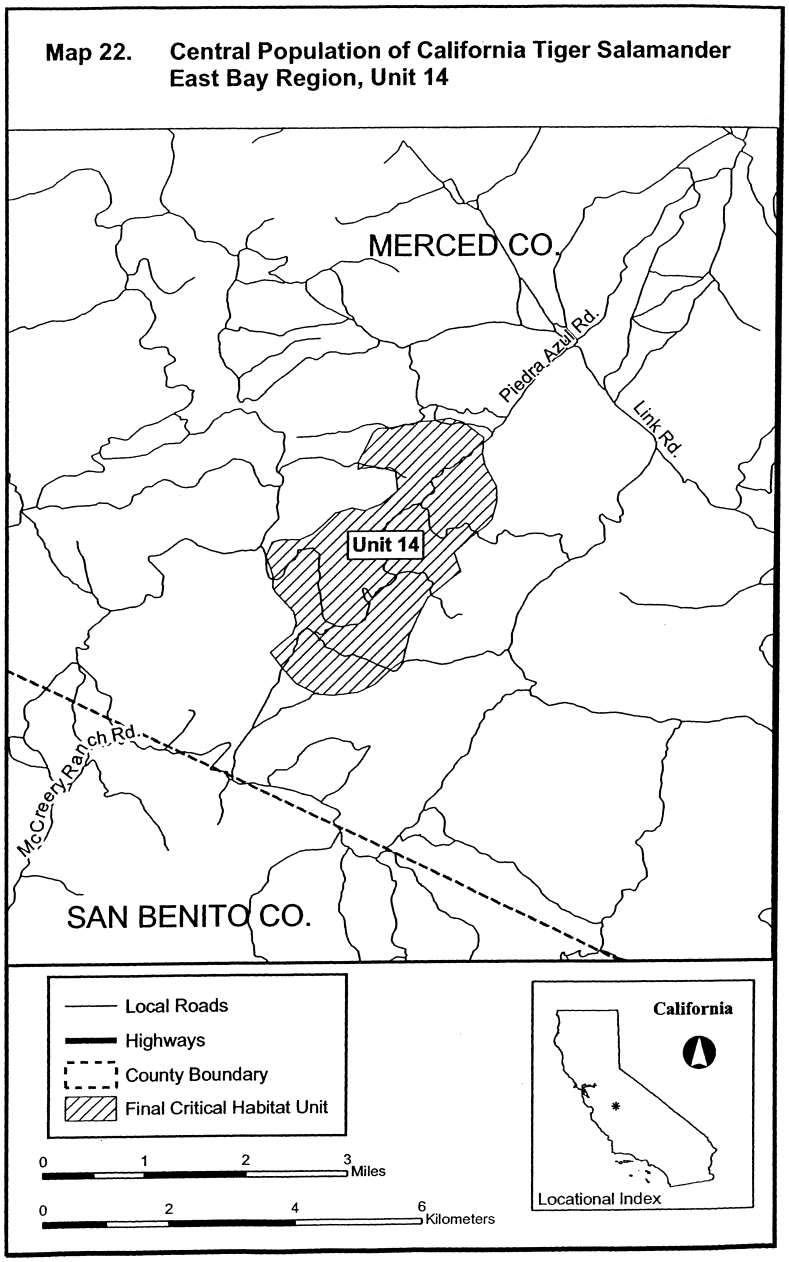


(45) East Bay Region: Unit 14, Merced County, California.

(i) From USGS 1:24,000 scale quadrangles Ruby Canyon, and Ortigalita Peak. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 679370, 4078644; 679558, 4078303; 679567, 4078064; 679490, 4077773; 679396, 4077671; 679149, 4077483; 678901, 4077253;

679003, 4076945; 678799, 4076800; 678483, 4076536; 678295, 4076186; 678184, 4075947; 678082, 4075537; 677894, 4075401; 677646, 4075162; 677382, 4075042; 676989, 4075000; 676742, 4075017; 676409, 4075187; 676161, 4075477; 676008, 4075682; 676213, 4075862; 676349, 4075964; 676409, 4076143; 676366, 4076331; 676272, 4076442; 676119, 4076604; 676085, 4076647; 676042, 4076707; 676042, 4076886; 675999, 4077031; 675931, 4077210; 676025, 4077441; 676170, 4077475; 676469, 4077475; 676665, 4077569; 676836, 4077705; 677015, 4077893; 677279, 4077970; 677476, 4077927; 677732, 4078029; 677988, 4078234; 677954, 4078542; 677663, 4078618; 677390, 4078593; 677365, 4078576; 677365, 4078695; 677510, 4078968; 677595, 4079156; 677681, 4079233; 677826, 4079233; 678022, 4079267; 678372, 4079335; 678585, 4079352; 678816, 4079386; 679029, 4079327; 679353, 4079079; 679345, 4078926; 679336, 4078823; returning to 679370, 4078644.

(ii) Note: Map 22 (East Bay Region, Unit 14) follows:



(46) East Bay Region: Unit 15a, San Benito County, California.

(i) From USGS 1:24,000 scale quadrangles Tres Pinos. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 648975, 4074659; 648866, 4074439; 648756, 4074518; 648584, 4074486; 648443, 4074424; 648345, 4074265; 647958, 4074729; 647957, 4074730; 647957, 4074730;

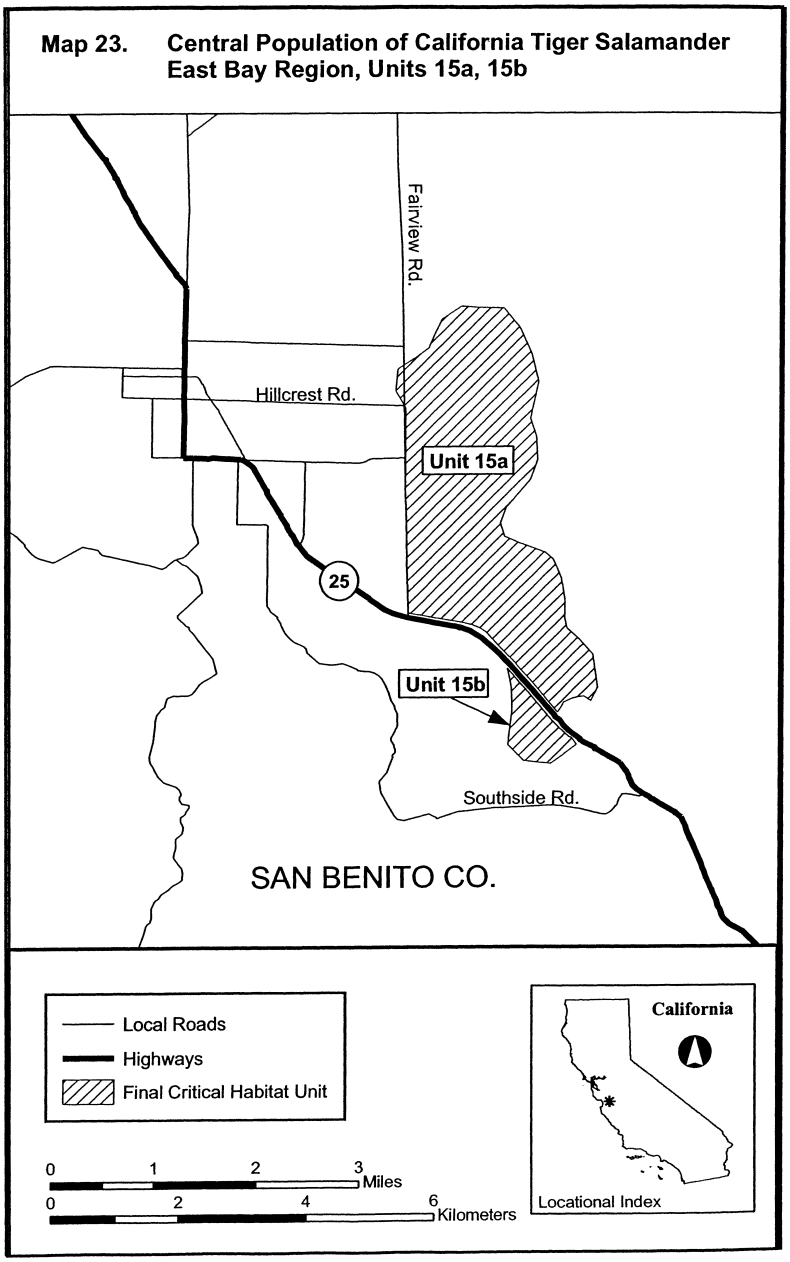
647737, 4074980; 647737, 4074980; 647686, 4075039; 647685, 4075039; 647683, 4075042; 647572, 4075156; 647267, 4075490; 647264, 4075493; 647261, 4075496; 647260, 4075497; 647205, 4075544; 647201, 4075547; 647197, 4075550; 647195, 4075551; 647136, 4075588; 647134, 4075589; 647129, 4075592; 647128, 4075592; 647066, 4075622; 647062, 4075623; 647059, 4075625; 646994, 4075648; 646992, 4075649; 646988, 4075650; 646985, 4075651; 646870, 4075678; 646867, 4075679; 646866, 4075679; 646057, 4075828; 646057, 4075828; 646015, 4075835; 646015, 4075836; 646014, 4075836; 645999, 4075838; 645995, 4075946; 645992, 4076037; 645986, 4076234; 645971, 4076906; 645969, 4077086; 645965, 4077530; 645965, 4077566; 645956, 4077596; 645946, 4077933; 645946, 4077933; 645953, 4077979; 645953, 4078182; 645953, 4078495; 645953, 4078809; 645953, 4079075; 645796, 4079341; 645828, 4079686; 646109, 4079873; 646313, 4080014; 646423, 4080265; 646517, 4080469; 646830, 4080672; 647080, 4080656; 647487, 4080641; 647738, 4080343; 647926, 4079920; 648036, 4079482; 647910, 4078903; 648004, 4078605; 648020, 4078245; 647910, 4077932; 647738, 4077728; 647534, 4077493; 647441, 4077258; 647503, 4077039; 647769, 4076929; 648145, 4076788; 648270, 4076679; 648396, 4076381; 648458, 4076052; 648458, 4075739; 648490, 4075598; 648662, 4075442; 648897, 4075175; returning to 648975, 4074659.

(ii) East Bay Region, Unit 15a is depicted on Map 23—Units 15a and 15b—see paragraph (47)(ii).

(47) East Bay Region: Unit 15b, San Benito County, California.

(i) From USGS 1:24,000 scale quadrangles Tres Pinos. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 648559, 4073866; 648564, 4073866; 648565, 4073866; 648646, 4073750; 648239, 4073453; 647816, 4073500; 647566, 4073750; 647628, 4074283; 647628, 4074471; 647613, 4074690; 647558, 4074952; 647572, 4074937; 647623, 4074880; 647623, 4074880; 647623, 4074879; 647842, 4074630; 648249, 4074142; 648251, 4074140; 648254, 4074137; 648366, 4074023; 648373, 4074013; 648374, 4074012; 648377, 4074008; 648381, 4074004; 648384, 4074001; 648513, 4073885; 648514, 4073885; 648518, 4073882; 648522, 4073879; 648526, 4073876; 648530, 4073874; 648535, 4073872; 648540, 4073870; 648544, 4073868; 648549, 4073867; 648554, 4073866; returning to 648559, 4073866.

(ii) Note: East Bay Region, Unit 15b is depicted on Map 23—Units 15a and 15b—which follows:

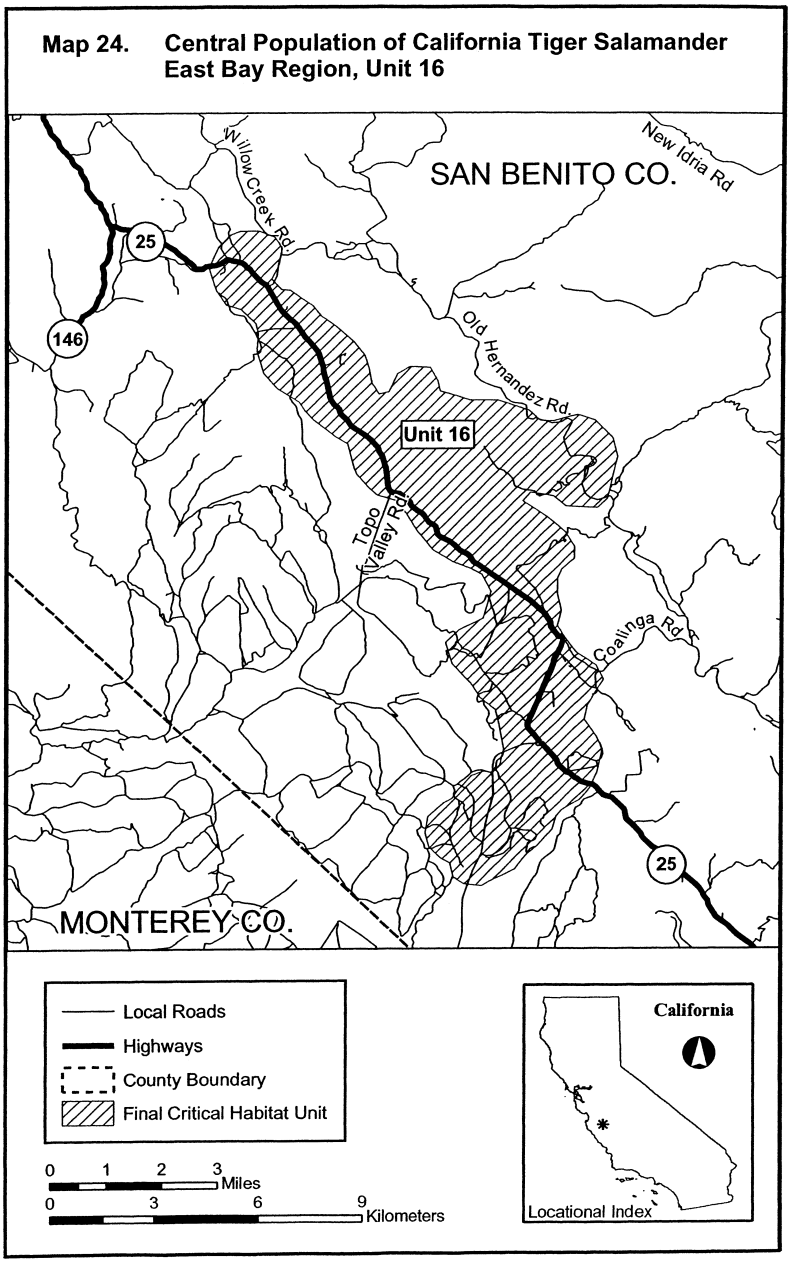


(48) East Bay Region: Unit 16, San Benito County, California.

(i) From USGS 1:24,000 scale quadrangles San Benito, Topo Valley, Rock Springs Peak, Pinalito Canyon, and Lonoak. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 674357, 4038468; 674568, 4038151; 674859, 4038204; 675098, 4038733;

675468, 4038944; 676050, 4038918; 676262, 4038547; 676341, 4038230; 676791, 4038098; 677214, 4037965; 677664, 4037965; 678008, 4037965; 678908, 4037674; 679252, 4037357; 679622, 4037357; 680310, 4037542; 680813, 4037383; 681289, 4036881; 681448, 4036325; 681315, 4035822; 681157, 4035108; 680892, 4034843; 679992, 4034896; 679622, 4035187; 678961, 4035293; 678749, 4035029; 679490, 4034552; 679992, 4034129; 680231, 4033732; 680231, 4033362; 679860, 4033044; 679754, 4032806; 679754, 4032330; 679860, 4031854; 679754, 4031430; 679992, 4031060; 680310, 4030636; 680866, 4030266; 681077, 4029869; 680892, 4029578; 680601, 4029075; 680522, 4028705; 680866, 4028202; 681051, 4027832; 680892, 4027144; 680680, 4026694; 680389, 4026350; 679887, 4026059; 679728, 4025874; 679622, 4025477; 679199, 4025027; 678881, 4024763; 678564, 4024339; 677982, 4024075; 677585, 4023863; 677082, 4023916; 676764, 4024101; 676659, 4024525; 676421, 4024657; 676050, 4025001; 675944, 4025398; 675997, 4025662; 676024, 4025874; 676500, 4026271; 676738, 4026403; 676923, 4026668; 677056, 4026774; 677294, 4027065; 677638, 4027197; 677876, 4027144; 678114, 4027356; 678220, 4027832; 678061, 4028626; 677982, 4028996; 677532, 4029340; 677267, 4029763; 676712, 4030319; 676526, 4030927; 676923, 4031298; 677611, 4031642; 677849, 4032409; 677585, 4032912; 677214, 4033097; 676712, 4033282; 676156, 4033626; 675706, 4034155; 675389, 4034685; 675071, 4035055; 674542, 4035214; 674251, 4035452; 673933, 4035822; 673854, 4036007; 673669, 4036695; 673325, 4036907; 673060, 4037119; 672690, 4037410; 672452, 4037648; 672293, 4037912; 671658, 4038309; 671261, 4038759; 671076, 4039394; 671102, 4039897; 671023, 4040214; 670600, 4040611; 670176, 4040744; 669885, 4041167; 669674, 4041802; 669938, 4042384; 670309, 4042754; 670600, 4042860; 671129, 4042860; 671579, 4042675; 671790, 4042384; 671711, 4041908; 671499, 4041484; 671764, 4041193; 672028, 4041167; 672346, 4040929; 672663, 4040717; 672928, 4040400; 673060, 4040320; 673351, 4040109; 673854, 4039659; 674145, 4039288; 674277, 4038891; returning to 674357, 4038468.

(ii) Note: Map 24 (East Bay Region, Unit 16) follows:

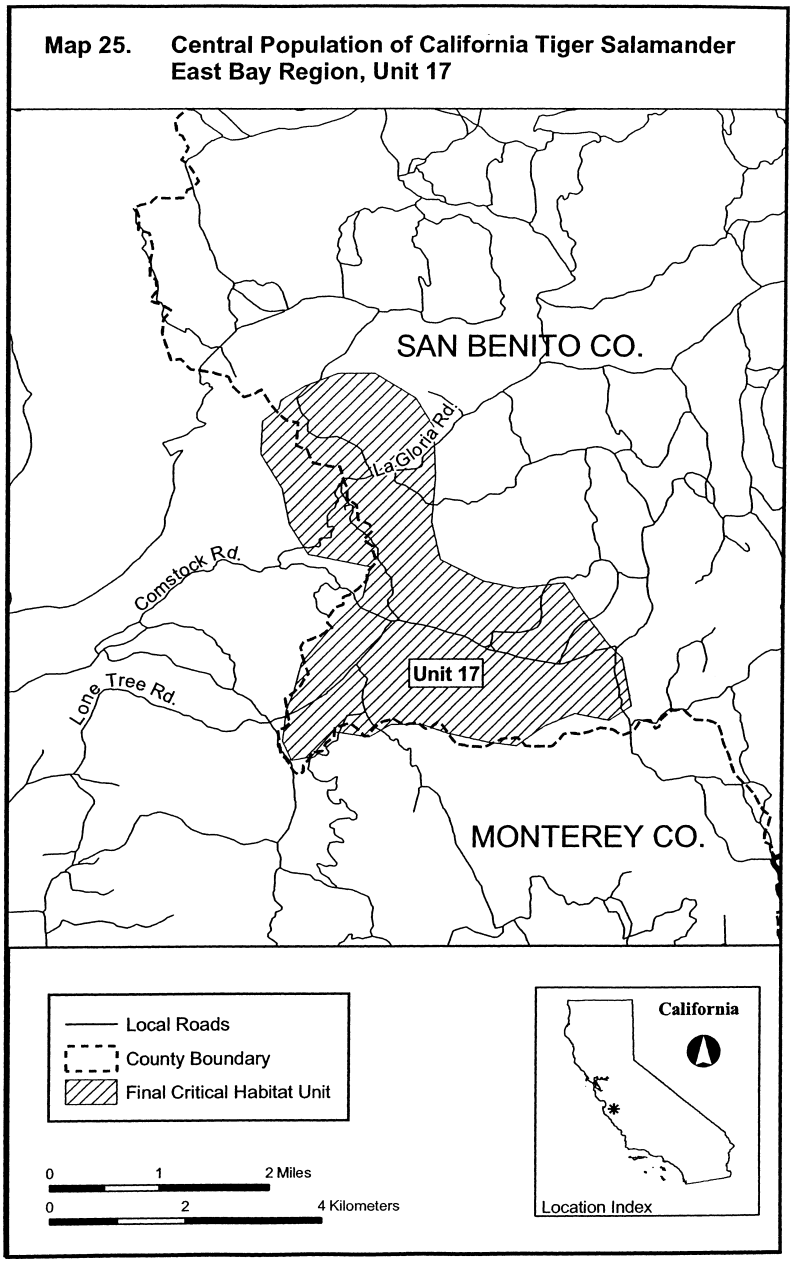


(49) East Bay Region: Unit 17, San Benito County, California, and Monterey County, California.

(i) From USGS 1:24,000 scale quadrangle Mount Johnson. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 654222, 4043469; 654725, 4043363; 655413,

4043442; 655651, 4043072; 656048, 4042543; 656259, 4042331; 656392, 4041617; 656074, 4041405; 655571, 4041511; 655148, 4041326; 654803, 4041088; 654725, 4041035; 654381, 4041078; 654301, 4041087; 653719, 4041220; 653713, 4041222; 653474, 4041307; 653349, 4041352; 653301, 4041352; 653086, 4041352; 653060, 4041352; 652873, 4041352; 652555, 4041167; 652479, 4041178; 652474, 4041179; 652049, 4041243; 652026, 4041246; 651775, 4040954; 651708, 4040876; 651686, 4040872; 651417, 4040823; 651285, 4041114; 651308, 4041306; 651338, 4041564; 651345, 4041581; 651444, 4041828; 651444, 4041831; 651550, 4042252; 651593, 4042303; 651973, 4042754; 651990, 4042771; 652003, 4042784; 652449, 4043231; 652545, 4043638; 652555, 4043680; 651655, 4043866; 651364, 4044315; 651259, 4044845; 650941, 4045347; 650968, 4045824; 651166, 4045978; 651206, 4046009; 651232, 4046141; 651603, 4046353; 652079, 4046538; 652608, 4046538; 653217, 4046168; 653481, 4045744; 653508, 4045003; 653455, 4044342; 653587, 4043786; returning to 654222, 4043469.

(ii) Note: Map 25 (East Bay Region, Unit 17) follows:

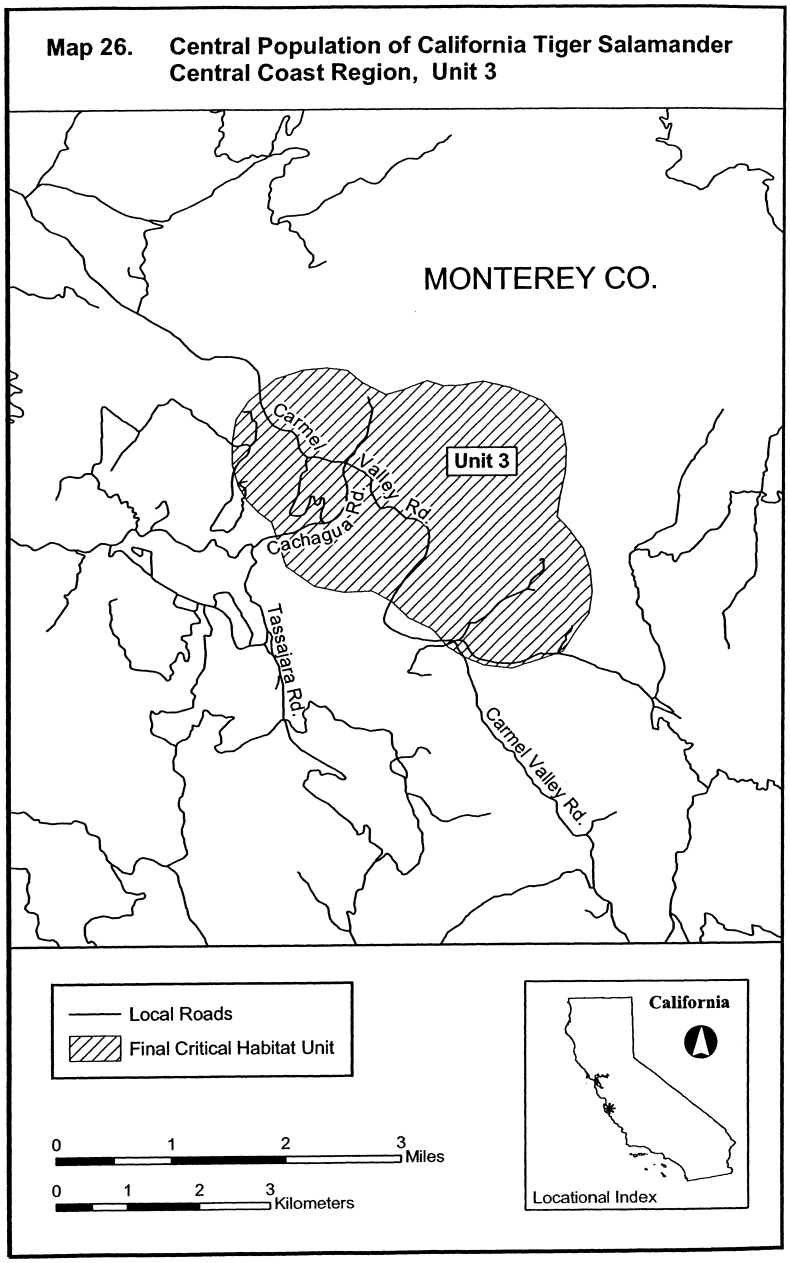


(50) Central Coast Region: Unit 3, Monterey County, California.

(i) From USGS 1:24,000 scale quadrangles Rana Creek. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 627509, 4030548; 627840, 4030382; 628072, 4030440; 628412, 4030573; 628645, 4030498; 628902, 4030506; 629208, 4030564; 629590, 4030473; 630029, 4030282;

630294, 4029984; 630361, 4029602; 630353, 4029296; 630278, 4028939; 630236, 4028649; 630427, 4028450; 630610, 4028201; 630701, 4027903; 630726, 4027588; 630684, 4027273; 630477, 4026991; 630319, 4026742; 629623, 4026518; 629233, 4026560; 628926, 4026684; 628711, 4026825; 628487, 4027074; 628155, 4027231; 627923, 4027463; 627650, 4027613; 627252, 4027596; 626845, 4027687; 626456, 4027969; 626373, 4028218; 626257, 4028591; 626074, 4028732; 625908, 4028906; 625784, 4029113; 625701, 4029403; 625701, 4029694; 625751, 4030034; 625933, 4030299; 626306, 4030606; 626688, 4030730; 627011, 4030763; 627301, 4030722; returning to 627509, 4030548.

(ii) Note: Map 26 (Central Coast Region, Unit 3) follows:

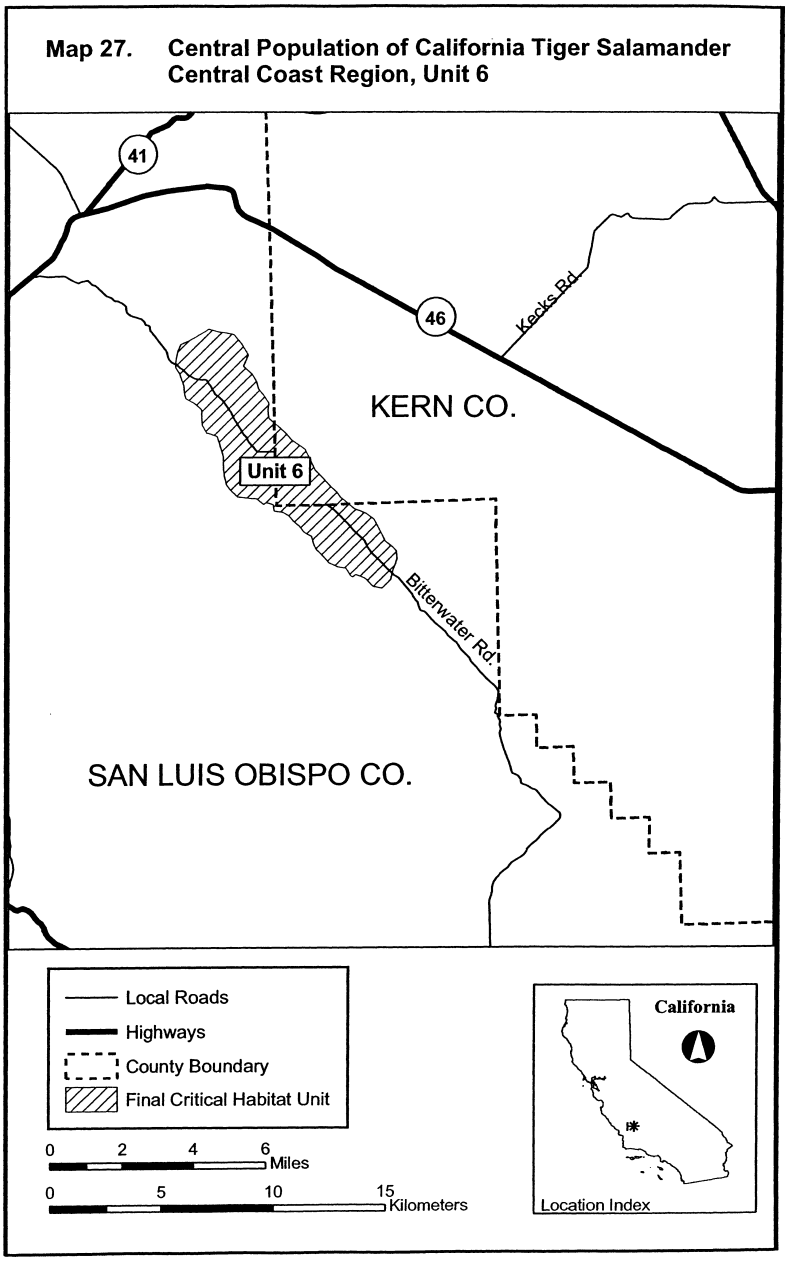


(51) Central Coast Region: Unit 6, Kern County, California, and San Luis Obispo County, California.

(i) From USGS 1:24,000 scale quadrangles Orchard Peak, and Holland Canyon. Land bounded by the following UTM Zone 10, NAD83 coordinates (E,N): 757032, 3945151;

757374, 3944871; 757614, 3944675; 758116, 3944463; 758513, 3944172; 758831, 3943590; 759016, 3943193; 759360, 3942929; 759519, 3942770; 759545, 3942399; 759386, 3941950; 759254, 3941447; 758884, 3941076; 758487, 3941156; 758090, 3941553; 757693, 3941711; 757561, 3941579; 757481, 3941632; 757243, 3942002; 756873, 3942055; 756503, 3942241; 756264, 3942505; 755920, 3942876; 755815, 3943114; 755709, 3943431; 755497, 3943537; 755391, 3943616; 755180, 3943881; 754941, 3944093; 754730, 3944331; 754439, 3944516; 754068, 3944569; 754015, 3944860; 753724, 3944939; 753592, 3944860; 753275, 3945098; 752851, 3945151; 752428, 3945204; 752084, 3945521; 751925, 3945760; 751819, 3946104; 751793, 3946447; 751766, 3947030; 751608, 3947559; 751502, 3947903; 751026, 3948061; 750840, 3948405; 750814, 3948776; 750814, 3949120; 750523, 3949384; 750100, 3949622; 750047, 3949887; 750020, 3950152; 749835, 3950734; 749650, 3951025; 749676, 3951342; 749756, 3951739; 749888, 3952030; 750444, 3952295; 750840, 3952533; 751131, 3952718; 751634, 3952586; 751899, 3952559; 752243, 3952480; 752613, 3952030; 752878, 3951554; 752666, 3951051; 753063, 3950707; 753248, 3950390; 753328, 3950046; 753566, 3949781; 753804, 3949411; 753777, 3949014; 753804, 3948723; 754062, 3948505; 754306, 3948300; 754598, 3948035; 754862, 3947717; 755418, 3947321; 755629, 3946924; 755868, 3946421; 756238, 3946024; 756529, 3945680; 756820, 3945416; returning to 757032, 3945151.

(ii) Note: Map 27 (Central Coast Region, Unit 6) follows:



CALIFORNIA TIGER SALAMANDER IN SONOMA COUNTY

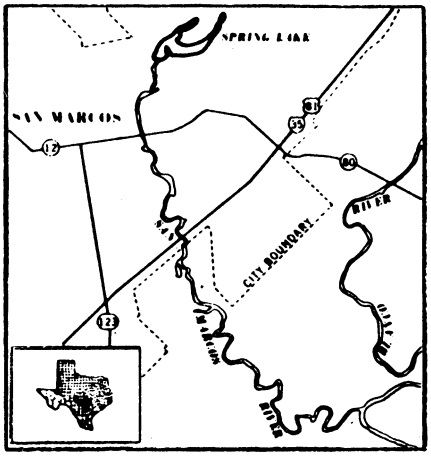
Pursuant to section 4(b)(2) of the Act, we have excluded all areas determined to meet the definition of critical habitat under section 4(b)(2) of the Act for California tiger salamander in Sonoma County. Therefore, no

specific areas are designated as critical habitat for this species.

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:



ARROYO TOAD (*Bufo californicus*)

(1) Critical habitat units are depicted for Santa Barbara, Ventura, Los Angeles, San Bernardino, and Riverside Counties, California, on the maps below.

(2) The primary constituent elements of critical habitat for the arroyo toad are the habitat components that provide:

(i) Rivers or streams with hydrologic regimes that supply water to provide space, food, and cover needed to sustain eggs, tadpoles, metamorphosing juveniles, and adult breeding toads. Specifically, the conditions necessary to allow for successful breeding of arroyo toads are:

(A) Breeding pools with areas less than 12 in (30 cm) deep;

(B) Areas of flowing water with current velocities less than 1.3 ft per second (40 cm per second); and

(C) Surface water that lasts for a minimum length of 2 months in most years, *i.e.*, a sufficient wet period in the spring months to allow arroyo toad larvae to hatch, mature, and metamorphose.

(ii) Low-gradient stream segments (typically less than 6 percent) with sandy or fine gravel substrates that support the formation of shallow pools and sparsely vegetated sand and gravel bars for breeding and rearing of tadpoles and juveniles.

(iii) 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 breeding pools and terrace habitats with scattered vegetation are maintained.

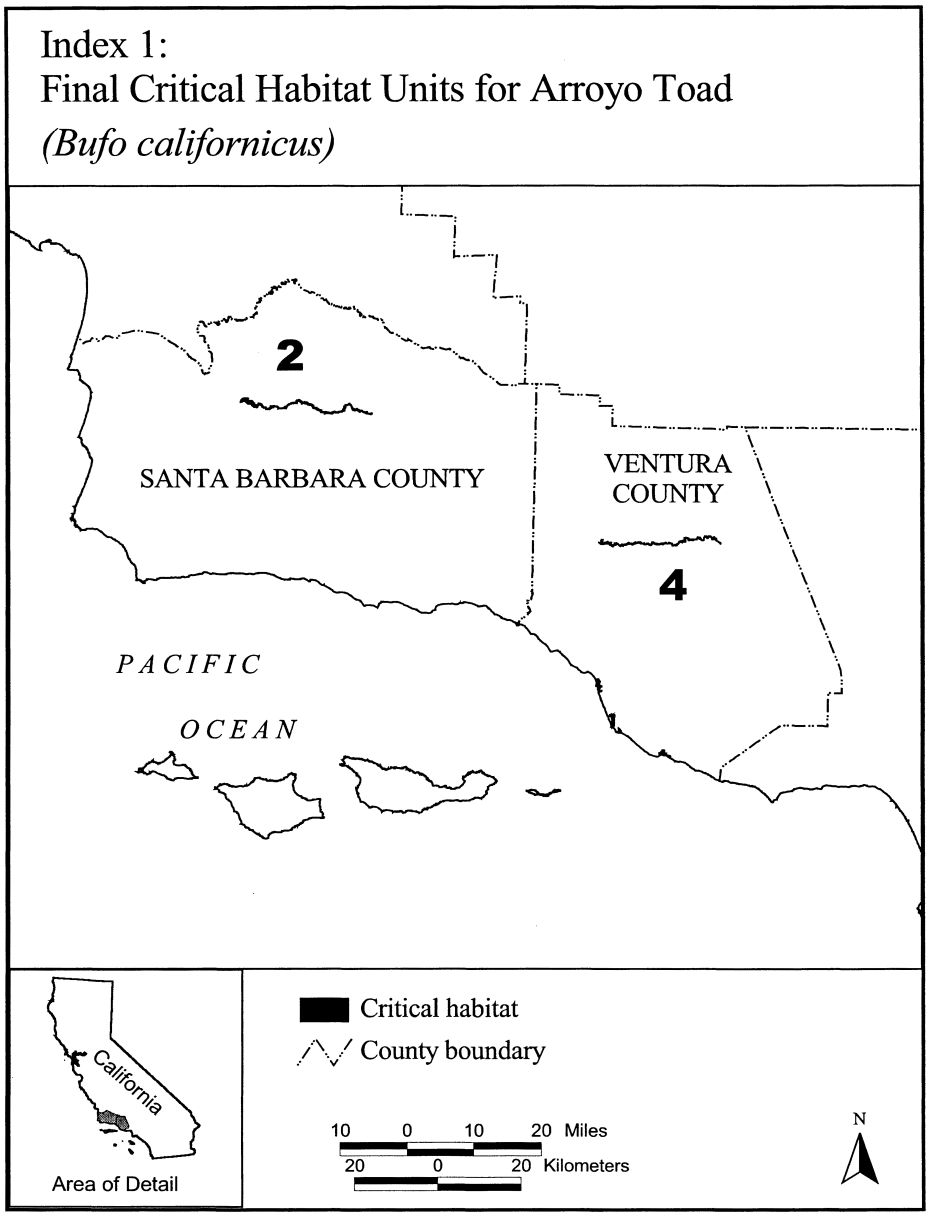
(iv) Riparian and adjacent upland habitats (particularly alluvial streamside terraces and adjacent valley bottomlands that include areas of loose soil where toads can burrow underground) to provide foraging and living areas for subadult and adult arroyo toads.

(v) Stream channels and adjacent upland habitats that allow for migration to foraging areas, overwintering sites, dispersal between populations, and recolonization of areas that contain suitable habitat.

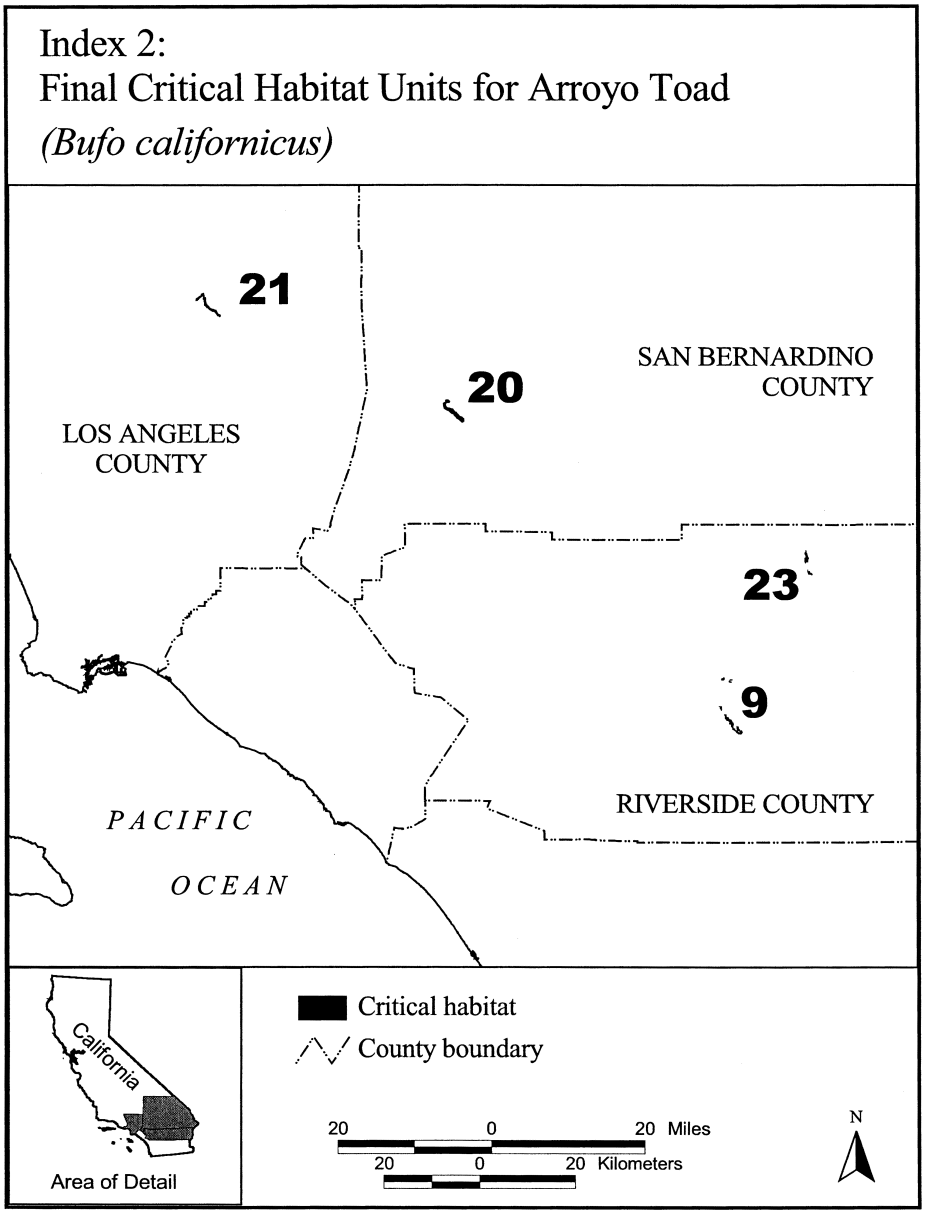
(3) Critical habitat does not include manmade structures existing on the effective date of this rule and not containing one or more of the primary constituent elements, such as buildings, aqueducts, airports, roads, and the land on which such structures are located.

(4) Index maps of arroyo toad critical habitat.

(i) *Note:* Map 1 (index map) follows:



(ii) Map 2 (index map) follows:



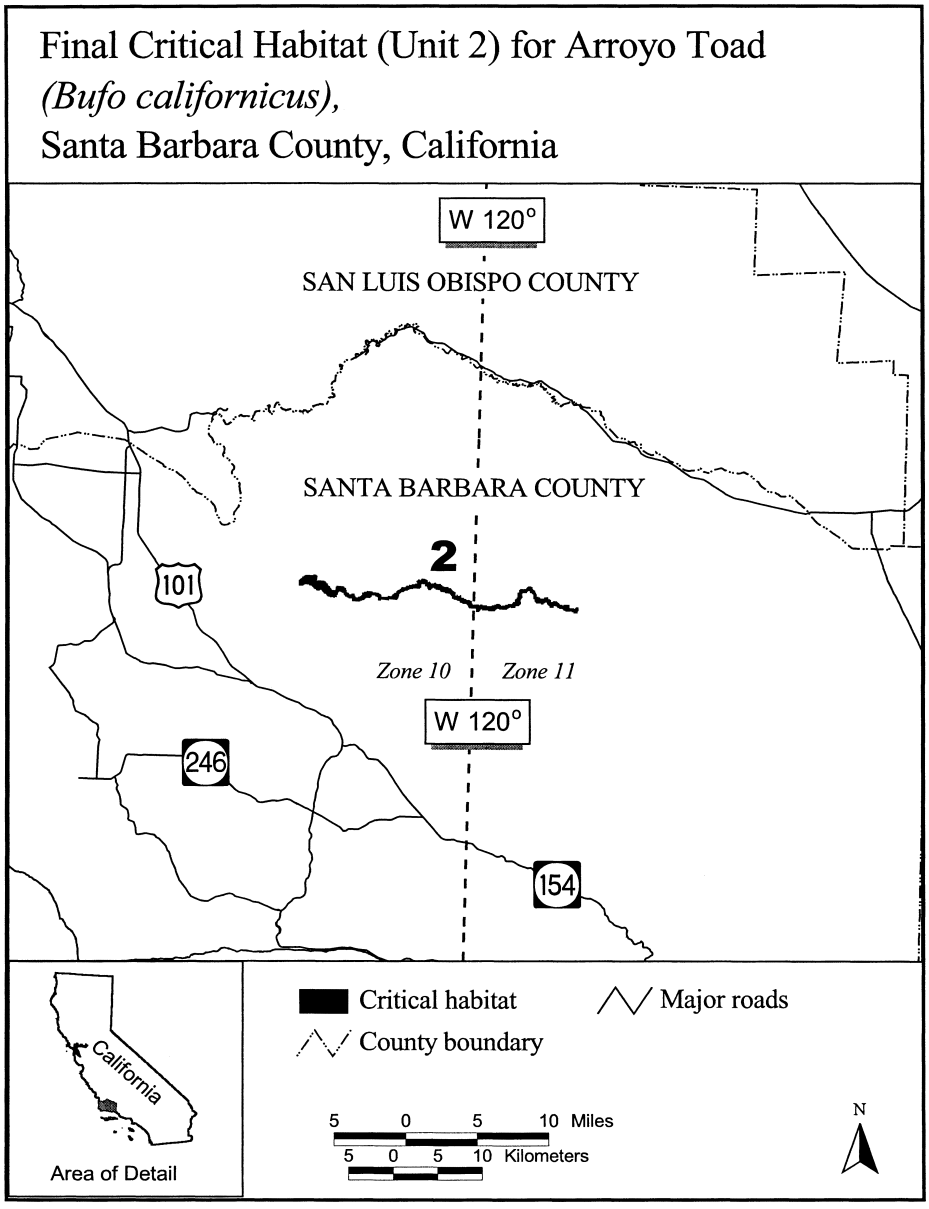
(5) Unit 2; Sisquoc River, Santa Barbara County, California.

(i) From USGS 1:24,000 scale quadrangles Foxen Canyon, Zaca Lake, Bald Mountain and Hurricane Deck. Land bounded by the following UTM Zone 10, NAD 27 coordinates (E, N): 754600, 3859000; 754600, 3859600; 754700, 3859600; 754700, 3859700; 754800, 3859700; 754800, 3859800; 754900, 3859800; 754900, 3859900; 755000, 3859900; 755000, 3860000; 755100, 3860000; 755100, 3860100; 755300, 3860100; 755300, 3860200; 756200, 3860200; 756200, 3860300; 756500, 3860300; 756500,

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(ii) NOTE: Map of Unit 2 follows.



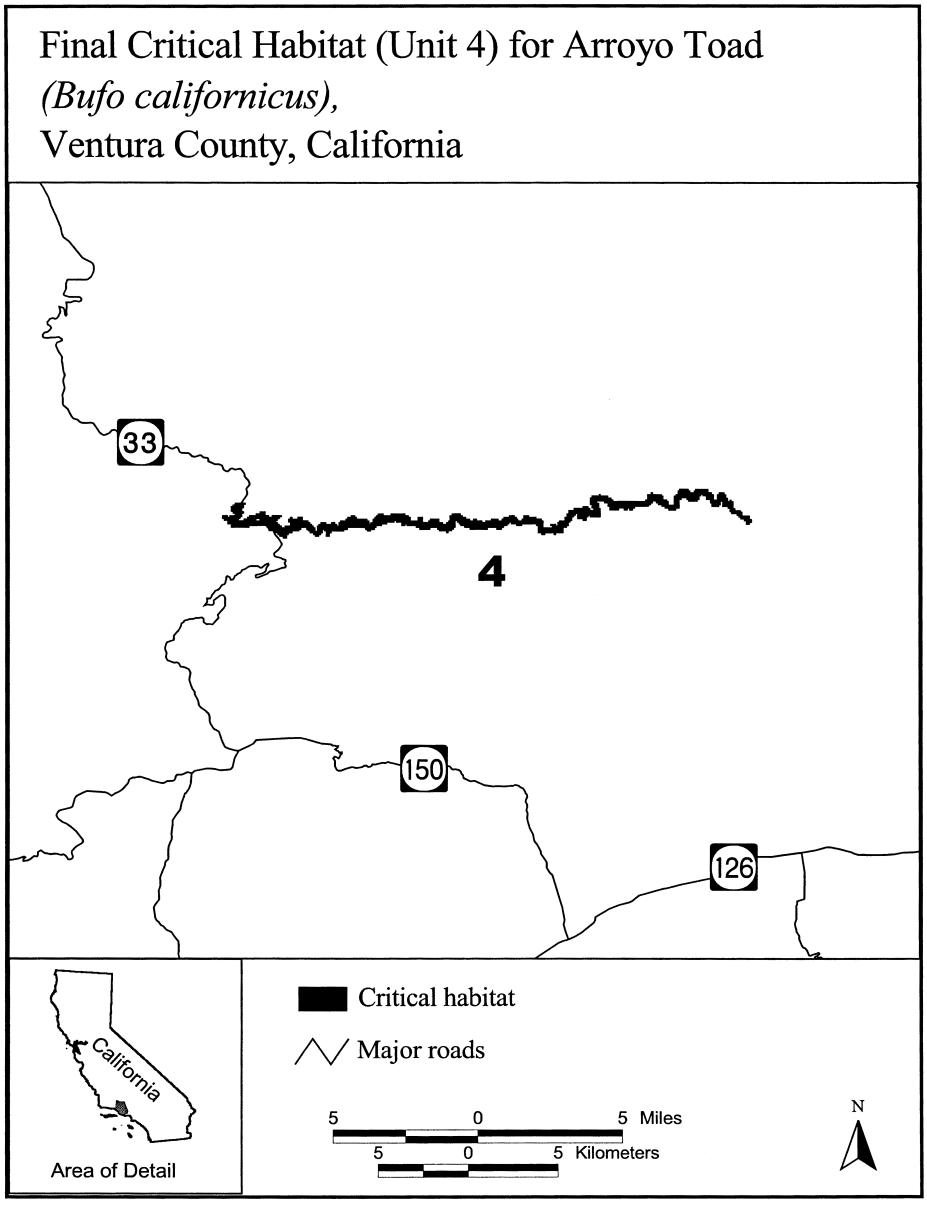
(6) Unit 4; Sespe Creek, Ventura County, California.

(i) From USGS 1:24,000 scale quadrangles Wheeler Springs, Lion Canyon, Topatopa Mountains, and Devils Heart Peak. Land bounded by the following UTM zone 11, NAD 27 coordinates (E, N): 318600, 3828000; 318600, 3827800; 318800, 3827800; 318800, 3827700; 318900, 3827700; 318900, 3827400; 319100, 3827400; 319100, 3827700; 319200, 3827700; 319200, 3827800; 319500, 3827800; 319500, 3827700; 319600, 3827700; 319600, 3827500; 319700, 3827500; 319700, 3827300; 319800, 3827300; 319800, 3827400; 319900, 3827400; 319900, 3827300; 320000, 3827300; 320000, 3826900; 320100,

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(ii) NOTE: Map of Unit 4 follows.



(7) Unit 9; San Jacinto River Basin/Bautista Creek, Riverside County, California.

(i) From USGS 1:24,000 scale quadrangle Blackburn Canyon. Land bounded by the following UTM zone 11, NAD27 coordinates (E, N): 515200, 3733300; thence east to the Cleveland National Forest (CNF) boundary at y-coordinate 3733300; thence south, west, and north along the CNF boundary, passing y-coordinate 3733300, to x-coordinate 515200; returning to 515200, 3733300.

(ii) Land bounded by the following UTM zone 11, NAD27 coordinates (E, N): 517000,

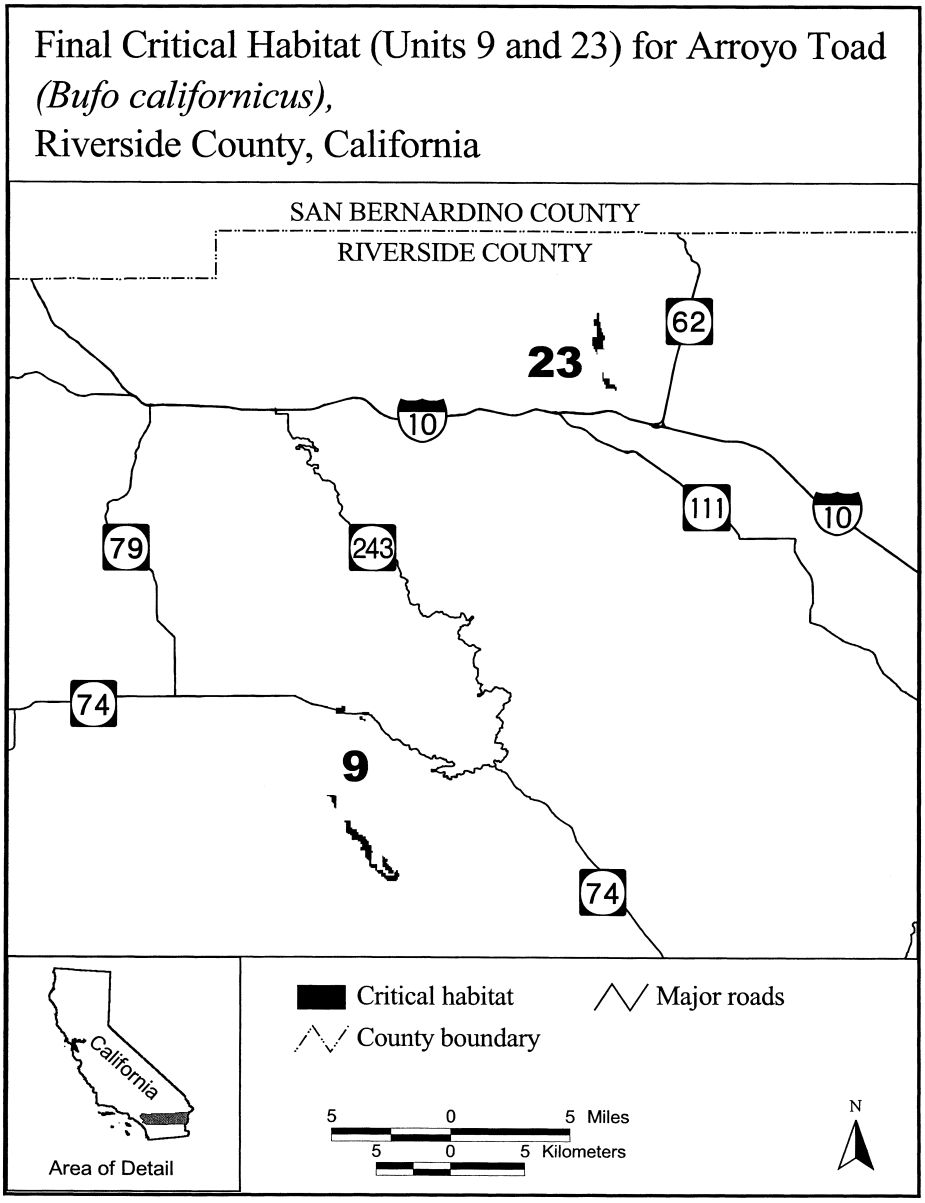
3732900; thence south to the CNF boundary at x-coordinate 517000; thence west and north along the CNF boundary to y-coordinate 3732900; returning to 517000, 3732900.

(iii) Land bounded by the following UTM zone 11, NAD27 coordinates (E, N): 516700, 3732300; 516700, 3732400; thence west to the CNF boundary at y-coordinate 3732400; thence north and southeast along the CNF boundary to y-coordinate 3732300; returning to 516700, 3732300.

(iv) Land bounded by the following UTM zone 11, NAD27 coordinates (E, N): 514700, 3726400; 514700, 3726700; 514600, 3726700; 514600, 3726800; 514500, 3726800; 514500, 3727100; 514400, 3727100; 514400, 3727200; 514200, 3727200; thence north to the CNF boundary at x-coordinate 514200; thence east and south along the CNF boundary to y-coordinate 3726300; thence west and following coordinates 514800, 3726300; 514800, 3726400; returning to 514700, 3726400.

(v) Land bounded by the following UTM zone 11, NAD27 coordinates (E, N): 515800, 3725000; 515900, 3725000; 515900, 3724900; 516200, 3724900; 516200, 3724700; 516300, 3724700; 516300, 3724500; 516600, 3724500; 516600, 3724400; 516800, 3724400; 516800, 3724200; 516900, 3724200; 516900, 3724100; 517000, 3724100; 517000, 3723800; 517200, 3723800; 517200, 3723400; 517300, 3723400; thence south to the CNF boundary at x-coordinate 517300; thence west and southeast along the CNF boundary, passing x-coordinate 518500, to y-coordinate 518800; thence east following coordinates 3721900; 518800, 3722000; 518900, 3722000; 518900, 3722100; 519000, 3722100; 519000, 3721900; 519100, 3721900; 519100, 3721700; 519000, 3721700; 519000, 3721500; 518900, 3721500; 518900, 3721400; 518300, 3721400; 518300, 3721500; 518200, 3721500; 518200, 3721600; 518100, 3721600; 518100, 3721700; 517900, 3721700; 517900, 3721900; 517700, 3721900; 517700, 3722000; 517600, 3722000; 517600, 3722100; 517500, 3722100; 517500, 3722300; 517200, 3722300; 517200, 3722400; 517100, 3722400; 517100, 3722800; 517000, 3722800; 517000, 3722900; 516900, 3722900; 516900, 3723000; 516800, 3723000; 516800, 3723500; 516500, 3723500; 516500, 3723700; 516600, 3723700; 516600, 3723900; 516500, 3723900; 516500, 3724100; 516300, 3724100; 516300, 3724200; 515900, 3724200; 515900, 3724500; 515800, 3724500; 515800, 3724600; 515600, 3724600; 515600, 3724700; 515500, 3724700; 515500, 3725400; 515400, 3725400; thence north to the CNF boundary at x-coordinate 515400; thence east along the CNF boundary to x-coordinate 515800; returning to 515800, 3725000. Land bounded by the following UTM zone 11, NAD27 coordinates (E, N): 518000, 3723100; 518000, 3723000; 518100, 3723000; 518100, 3722900; 518300, 3722900; 518300, 3722700; 518200, 3722700; 518200, 3722600; 518300, 3722600; 518300, 3722500; 518400, 3722500; 518400, 3722400; 518500, 3722400; 518500, 3722300; 518600, 3722300; 518600, 3722100; 518700, 3722100; thence south to the CNF boundary at x-coordinate 518700; thence northwest along the CNF boundary to y-coordinate 3723100; returning to 518000, 3723100.

(vi)NOTE: Map of Unit 9 follows.

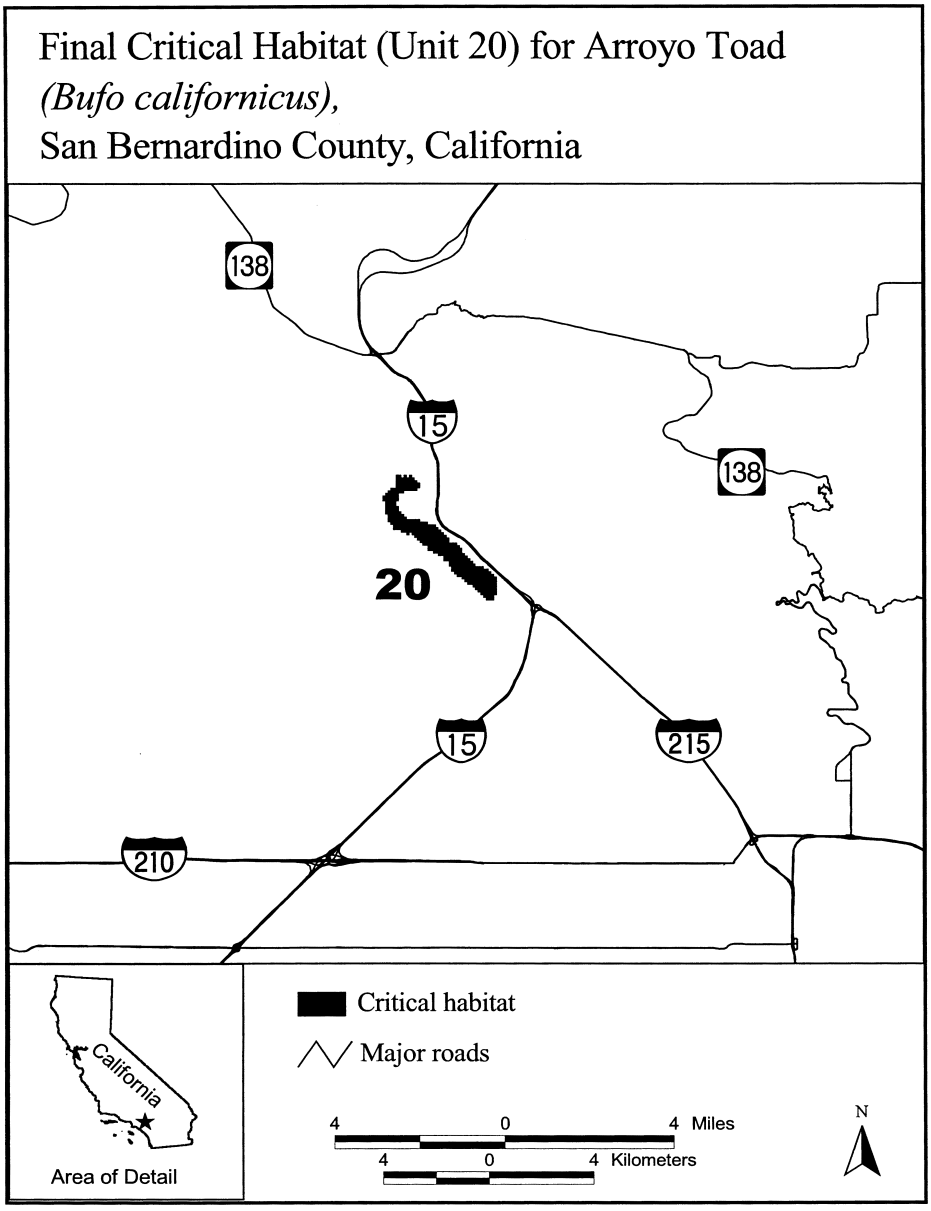


(8) Unit 20; Upper Santa Ana River Basin/Cajon Wash, San Bernardino County, California.

(i) From USGS 1:24,000 scale quadrangle Cajon. Land bounded by the following UTM zone 11, NAD27 coordinates (E, N): 457100, 3792000; 457300, 3792000; 457300, 3791900; 457400, 3791900; 457400, 3792000; 457500, 3792000; 457500, 3791900; 457600, 3791900; 457600, 3792000; 457700, 3792000; 457700, 3791900; 457800, 3791900; 457800, 3791800; 457900, 3791800; 457900, 3791700; 458000, 3791700; 458000, 3791500; 457900, 3791500; 457900, 3791400; 457400, 3791400; 457400, 3791300; 457200, 3791300; 457200, 3791000; 457100, 3791000; 457100,

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(ii) NOTE: Map of Unit 20 follows.

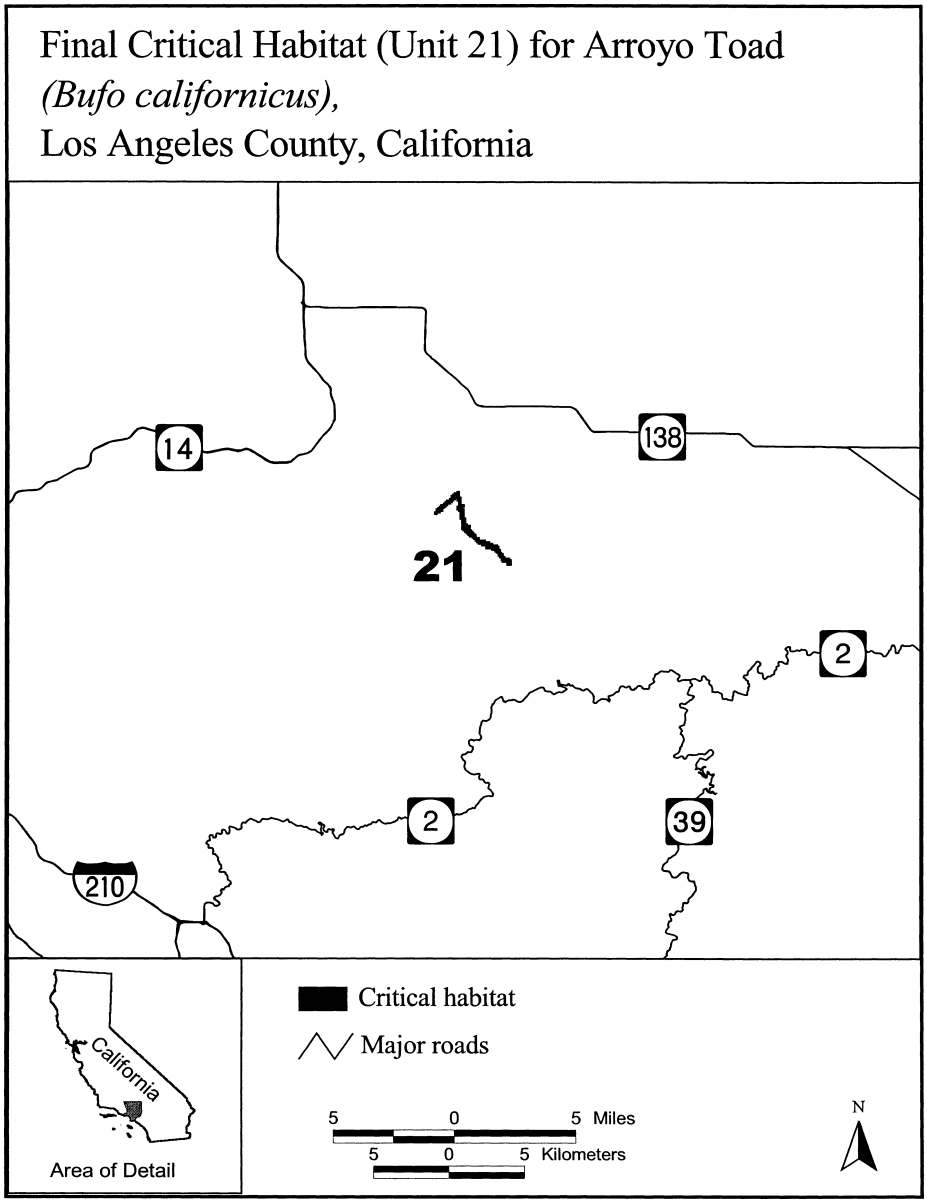


(9) Unit 21; Little Rock Creek Basin, Los Angeles County, California.

(i) From USGS 1:24,000 scale quadrangles Juniper Hills and Pacifico Mountain. Land bounded by the following UTM zone 11, NAD27 coordinates (E, N): 406300, 3814500; 406500, 3814500; 406500, 3814100; 406600, 3814100; 406600, 3813600; 406800, 3813600; 406800, 3813400; 406700, 3813400; 406700, 3813300; 406800, 3813300; 406800, 3812700; 406900, 3812700; 406900, 3812300; 407000, 3812300; 407000, 3812200; 407200, 3812200; 407200, 3811900; 407300, 3811900; 407300, 3811800; 407400, 3811800; 407400, 3811700; 407500, 3811700; 407500, 3811600; 407600, 3811600; 407600, 3811400;

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(ii) NOTE: Map of Unit 21 follows.



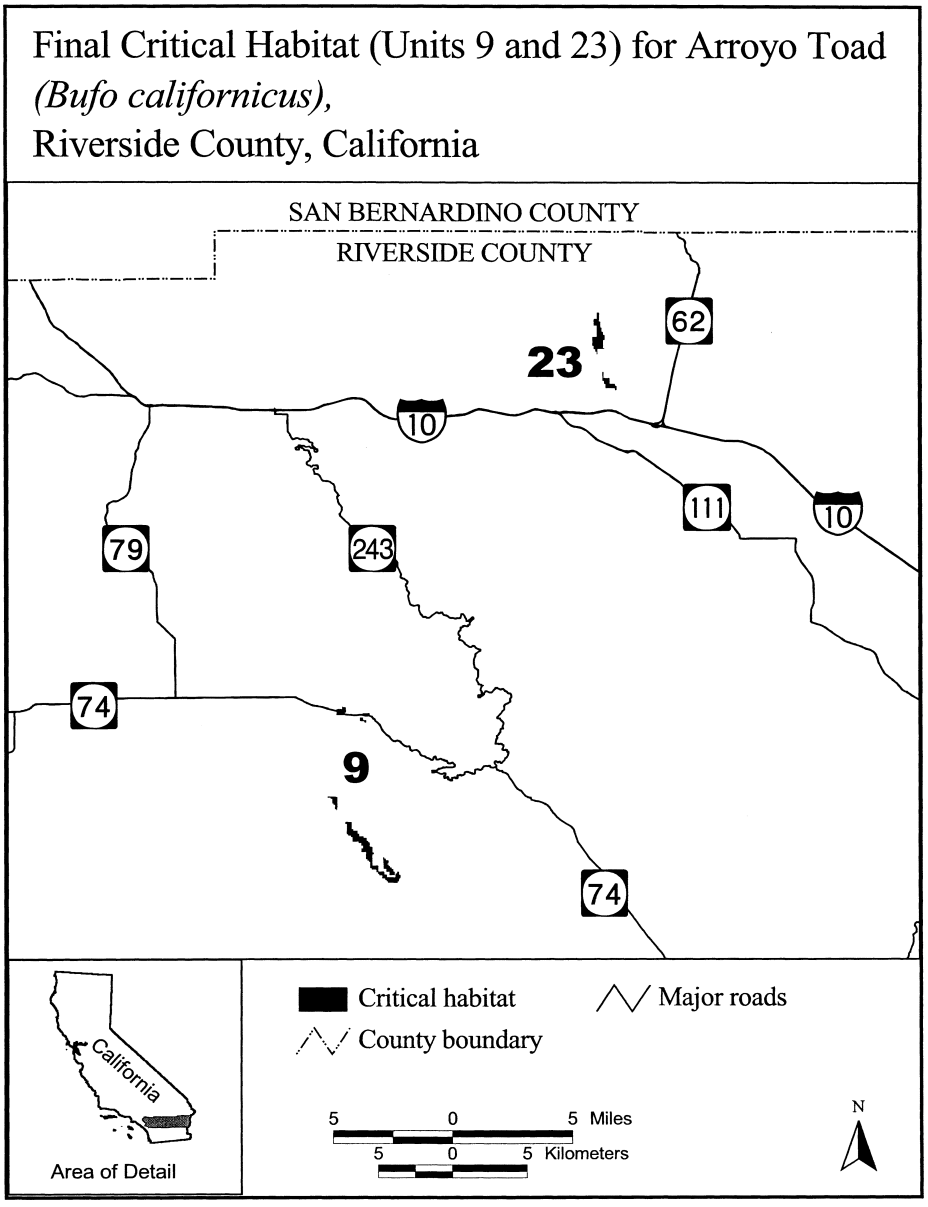
(10) Unit 23; Whitewater River Basin, Riverside County, California.

(i) From USGS 1:24,000 scale quadrangle White Water. Land bounded by the following UTM zone 11, NAD27 coordinates (E, N): 532500, 3759600; 532600, 3759600; 532600, 3759200; 532700, 3759200; 532700, 3758900; 532800, 3758900; 532800, 3758700; 532900, 3758700; 532900, 3758400; 532800, 3758400; 532800, 3757800; 532900, 3757800; thence south to the Bureau of Land Management (BLM) boundary at x-coordinate 532900; thence west and south along the BLM boundary to y-coordinate 3757400; thence west and following coordinates 532400, 3757400; 532400,

3757600; 532300, 3757600; 532300, 3757800; 532200, 3757800; 532200, 3758000; 532100, 3758000; thence north to the BLM boundary at x-coordinate 532100; thence east and north along the BLM boundary to y-coordinate 3759600; returning to 532500, 3759600.

Land bounded by the following UTM zone 11, NAD27 coordinates (E, N): 532800, 3755600; thence north to the BLM boundary at x-coordinate 532800; thence eastward along the BLM boundary to x-coordinate 533600; thence south and following coordinates 533600, 3755200; 533700, 3755200; thence south to the BLM boundary at x-coordinate 533700; thence westward along the BLM boundary to x-coordinate 533000; thence north and following coordinates 533000, 3755400; 532900, 3755400; 532900, 3755600; returning to 532800, 3755600.

(ii) NOTE: Unit 23 included on map with Unit 9.



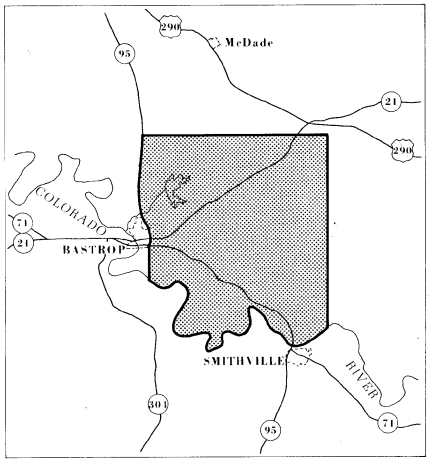
HOUSTON TOAD (*Bufo houstonensis*)

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

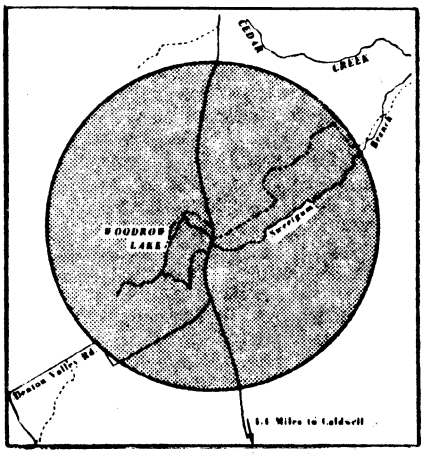
along that extension and Texas State Highway 95 to where it intersects a line corresponding to 30°12′00″ N.

NOTE: Map follows:



(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:



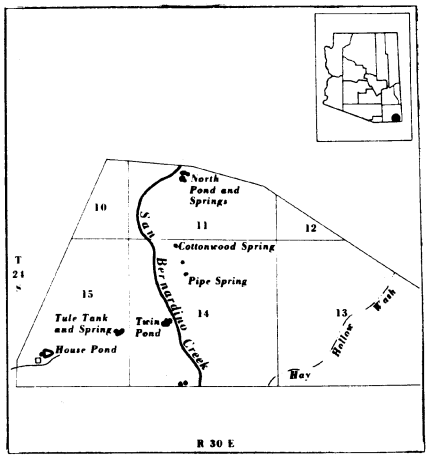
(e) *Fishes.*

YAQUI CATFISH (*Ictalurus pricei*)

Arizona, Cochise County. All aquatic habitats of San Bernardino NWR in S½ Sec. 11; Sec. 14; S½ and NE¼ 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:



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).

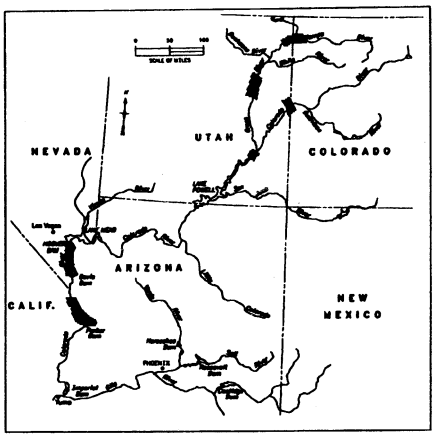
Utah: Garfield and San Juan Counties. The Colorado River from Brown Betty Rapid in T.30S., R.18E., sec. 34 (Salt Lake Meridian) to Imperial Canyon in T.31S., R.17E., sec. 28 (Salt Lake Meridian).

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.

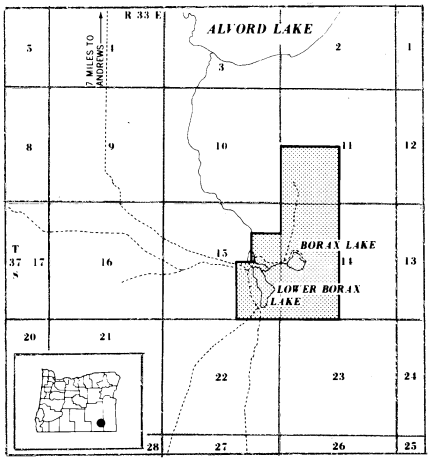
NOTE: Map follows:



BORAX LAKE CHUB (*Gila boraxobius*)

Oregon. Harney County. Borax Lake and environments associated with the outflow from Borax Lake located within SW¼ Sec. 11, W½ Sec. 14, E¾ of the SE¼ Sec. 15, and the SE¼ of the NE¼ Sec. 15; T37S; R33E.

NOTE: Map follows:



GILA CHUB (*Gila intermedia*)

(1) Critical habitat for the Gila chub in Grant County, New Mexico, and Yavapai, Gila, Greenlee, Graham, Cochise, Pima, Santa Cruz, and Pinal Counties in Arizona is described in detail and depicted on the following maps below.

(2) Within these areas, the primary constituent elements are the following:

(i) Perennial pools, areas of higher velocity between pool areas, and areas of shallow water among plants or eddies all found in small segments of headwaters, springs, or cienegas of smaller tributaries;

(ii) Water temperatures for spawning ranging from 17 to 24 °C (62.6 to 75.2 °F), and seasonally appropriate temperatures for all life stages (e.g., varying from approximately 10 °C to 30 °C);

(iii) Water quality with reduced levels of contaminants, including excessive levels of sediments adverse to Gila chub health, and adequate levels of pH (e.g., ranging from 6.5 to 9.5), dissolved oxygen (e.g., ranging from 3.0 to 10.0) and conductivity (e.g., 100 to 1000 mmhos);

(iv) Food base consisting of invertebrates (e.g., aquatic and terrestrial insects) and aquatic plants (e.g., diatoms and filamentous green algae);

(v) Sufficient cover consisting of downed logs in the water channel, submerged aquatic vegetation, submerged large tree root wads, undercut banks with sufficient overhanging vegetation, large rocks and boulders with overhangs, and a high degree of streambank stability and healthy, intact riparian vegetative community;

(vi) Habitat devoid of nonnative aquatic species detrimental to Gila chub or habitat in which detrimental nonnatives are kept at a level that allows Gila chub to continue to survive and reproduce; and

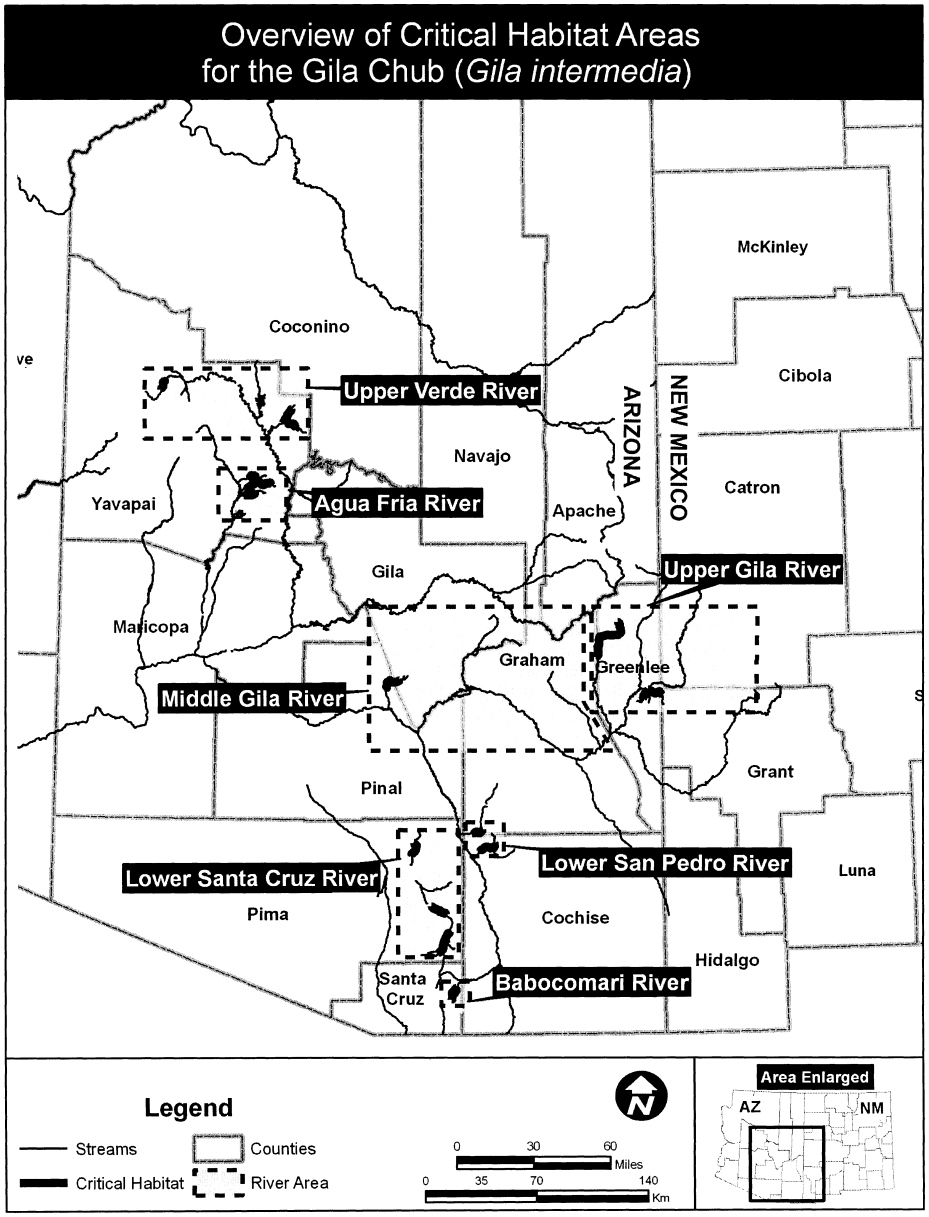
(vii) Streams that maintain a natural flow pattern including periodic flooding.

(3) Each stream segment includes a lateral component that consists of 300 feet on either side of the stream channel measured from the stream edge at bank full discharge. This lateral component of critical habitat is intended as a surrogate for the 100-year floodplain.

(4) Lands located within the boundaries of the critical habitat designation, but are excluded by definition include: Existing paved roads; bridges; parking lots; dikes; levees; diversion structures; railroad tracks; railroad trestles; water diversion canals outside of natural stream channels; active gravel pits; cultivated agricultural land; and residential, commercial, and industrial developments. These developed areas do not contain any of the primary constituent elements, do not provide habitat or biological features essential to the conservation of the Gila chub, and generally will not contribute to the species' recovery.

(5) Critical Habitat Map Areas. Data layers defining map areas, and mapping of critical habitat areas, was done using Arc GIS and verifying with USGS 7.5′ quadrangles. Legal descriptions for New Mexico and Arizona are based on the Public Lands Survey System (PLSS). Within this system, all coordinates reported for New Mexico are in the New Mexico Principal Meridian (NMPM), while those in Arizona are in the Gila and Salt River Meridian (GSRM). Township has been abbreviated as ''T'', Range as ''R'', and section as ''sec.'' Where possible, the ending or starting points have been described to the nearest quarter-section, abbreviated as ''¼''. Cardinal directions are also abbreviated (N = North, S = South, W = West, and E = East). All mileage calculations were performed using GIS.

(6) Note: Map 1 (index map) follows:



(7) Area 1: Upper Gila River—Grant County, New Mexico, and Greenlee County, Arizona.

(i) Turkey Creek: 22.3 km (13.8 mi) of creek extending from the edge of the Gila Wilderness boundary at T14S, R16W, sec. 15 NW¼ and continuing upstream to T13S, R15W, sec. 30 NE¼. Land ownership: Gila National Forest and private.

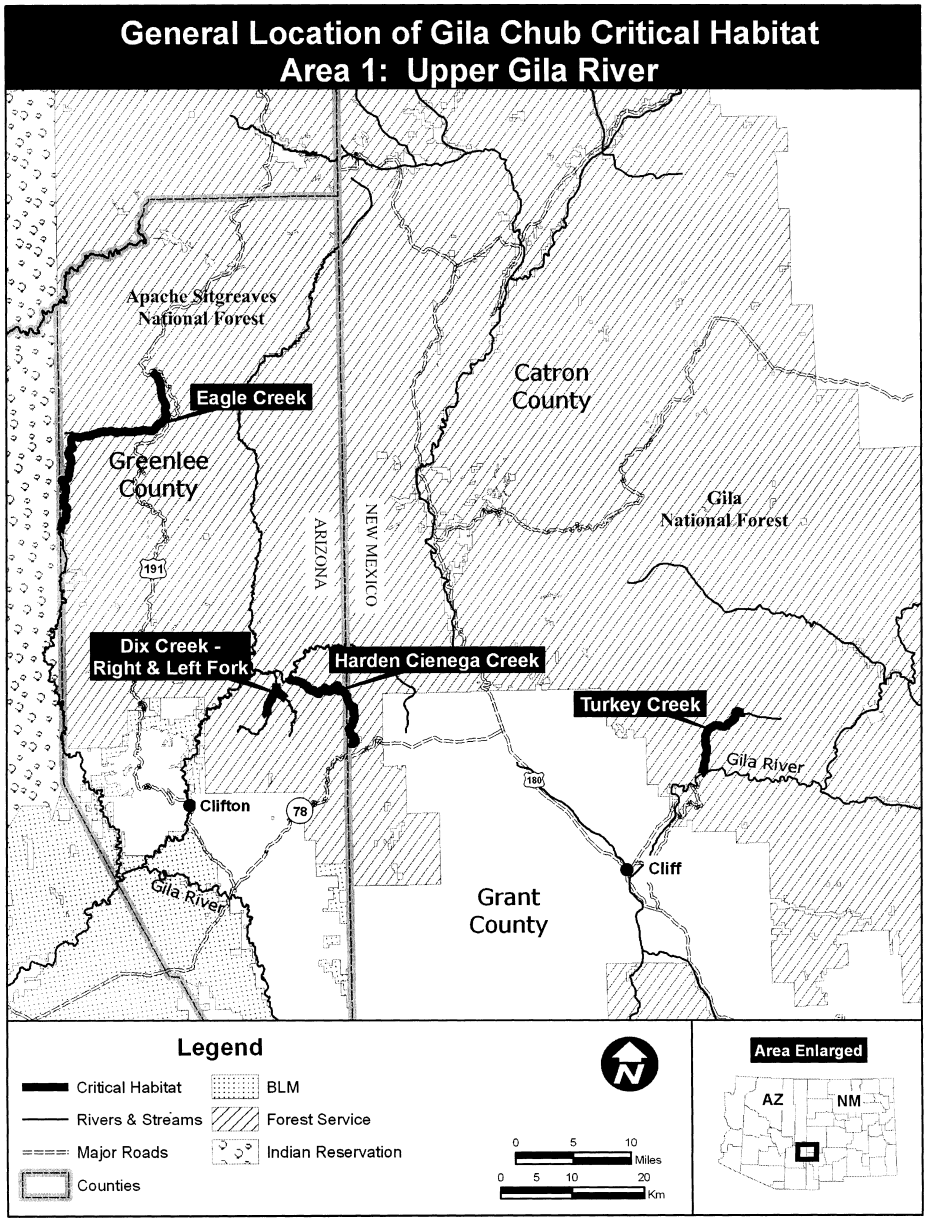
(ii) Eagle Creek and East Eagle Creek: 39.2 km (24.4 mi) of creek extending from its confluence with an unnamed tributary at T1N,

R28E, sec. 31 SW¼ upstream to the headwaters of East Eagle Creek just south of Highway 191 in T3N, R29E, sec. 28 SE¼. Land ownership: Apache-Sitgreaves National Forest and private.

(iii) Harden Cienega Creek: 22.6 km (14.0 mi) of creek extending from its confluence with the San Francisco River in GSRM T3S, R31E, sec. 3 SE¼ upstream to the headwaters in NMPM T14S, R21W, sec. 6 NE¼. Land ownership: Apache-Sitgreaves National Forest, Gila National Forest, and private.

(iv) Dix Creek: Portions of the Creek beginning 1.0 mile upstream from its confluence with the San Francisco River at a natural rock barrier in T3S, R31E, sec. 9 NE¼ continuing upstream for 0.9 km (0.6 mi.) to the confluence of the right and left prongs of Dix Creek in T3S, R31E, sec. 9 center. Includes Left Prong of Dix Creek upstream of its confluence with Dix Creek 2.0 km (1.2 mi) to T3S, R31E, section 15 NW¼. Land ownership: Apache-Sitgreaves National Forest. Includes the Right Prong of Dix Creek continuing upstream of its confluence with Dix Creek 4.8 km (3.0 mi) to T3S, R31E, section 20 SE¼. Land ownership: Apache-Sitgreaves National Forest.

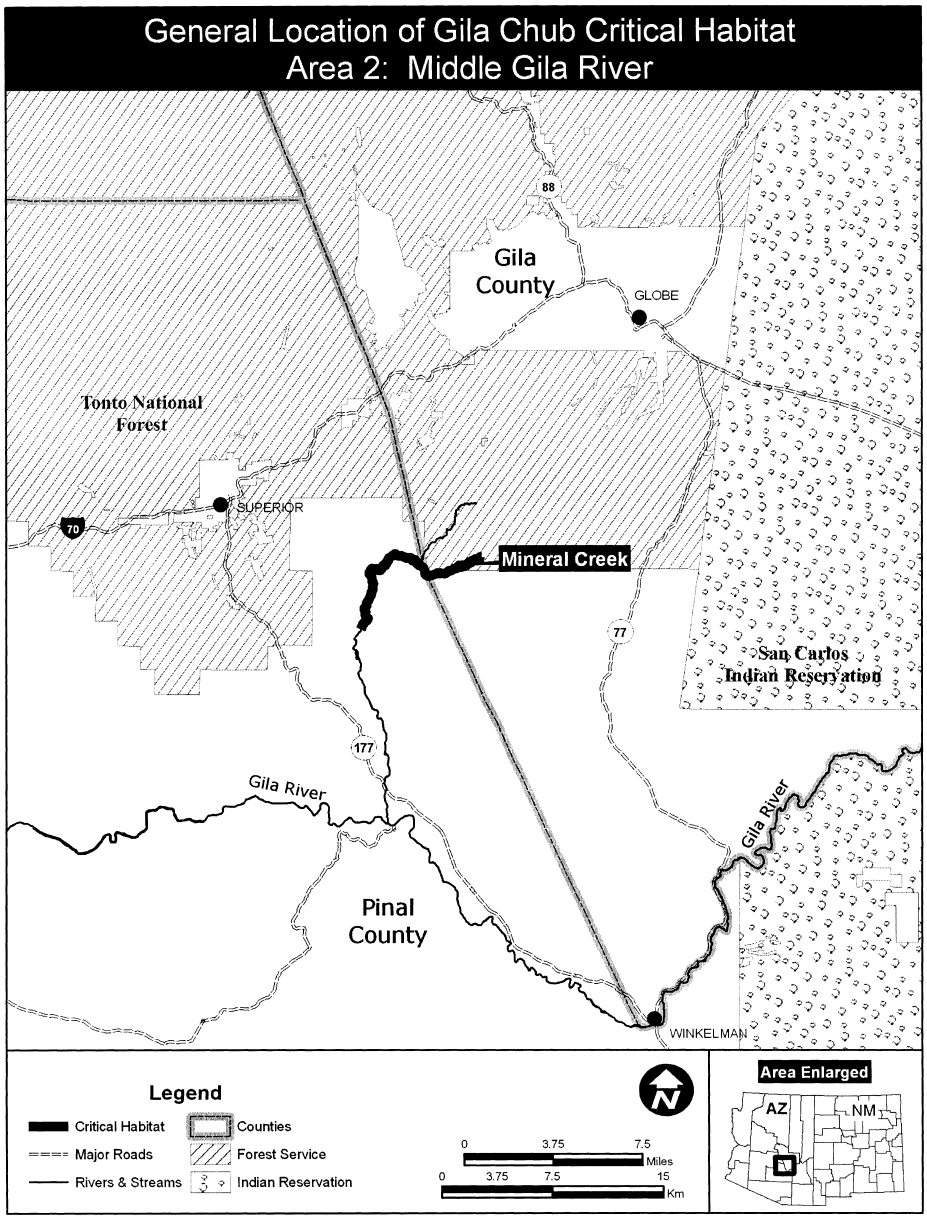
(v) Note: Map of Area 1, Gila River, (Map 2) follows:



(8) Area 2: Middle Gila River—Gila and Pinal Counties, Arizona.

(i) Mineral Creek: 14.4 km (9.0 mi) of creek extending from its confluence with Devil's Canyon in T2S, R13E, section 35 NW¼ continuing upstream to its headwaters in T2S, R14E, sec. 15 center at the confluence of Mineral Creek and an unknown drainage. Land ownership: Tonto National Forest, State, and private.

(ii) Note: Map of Area Upper Gila River, (Map 3) follows:



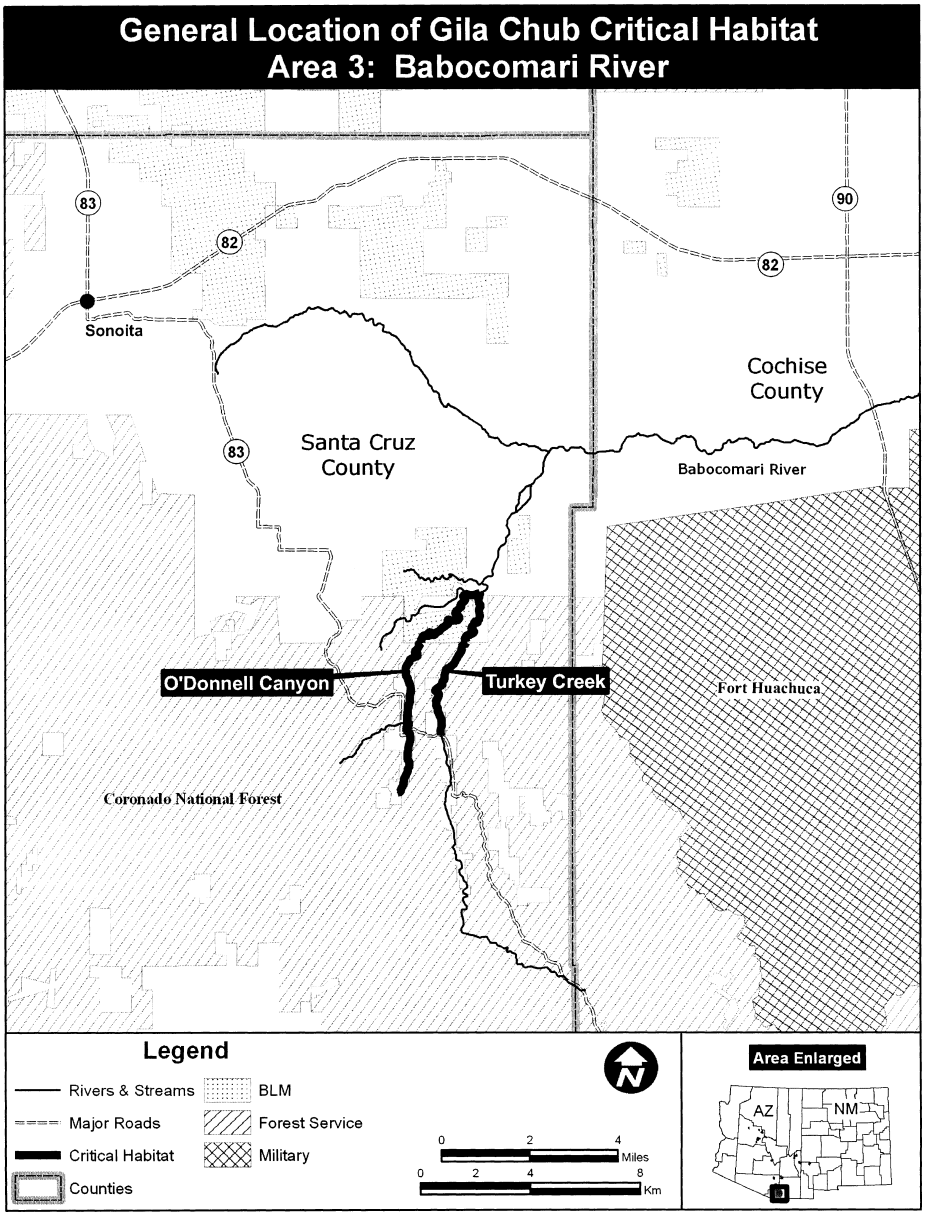
(9) Area 3: Babocomari River—Santa Cruz County, Arizona.

(i) O'Donnell Canyon: 10.0 km (6.2 mi) of creek extending from its confluence with Turkey Creek at T21S, R18E, sec. 22 SE¼ upstream to the confluences of Western, Middle, and Pauline Canyons in T22S, R18E, sec. 17 NE¼. Land ownership: Bureau of Land Management, Coronado National Forest, and private.

(ii) Turkey Creek: 6.3 km (3.9 mi) of creek extending from its confluence with

O'Donnell Canyon in T21S, R18E, sec. 22 SE¼ upstream to where Turkey Creek crosses AZ Highway 83 in T22S, R18E, sec. 9 NE¼. Land ownership: Coronado National Forest, and private.

(iii) Note: Map of Area 3, Babocomari River, (Map 4) follows:



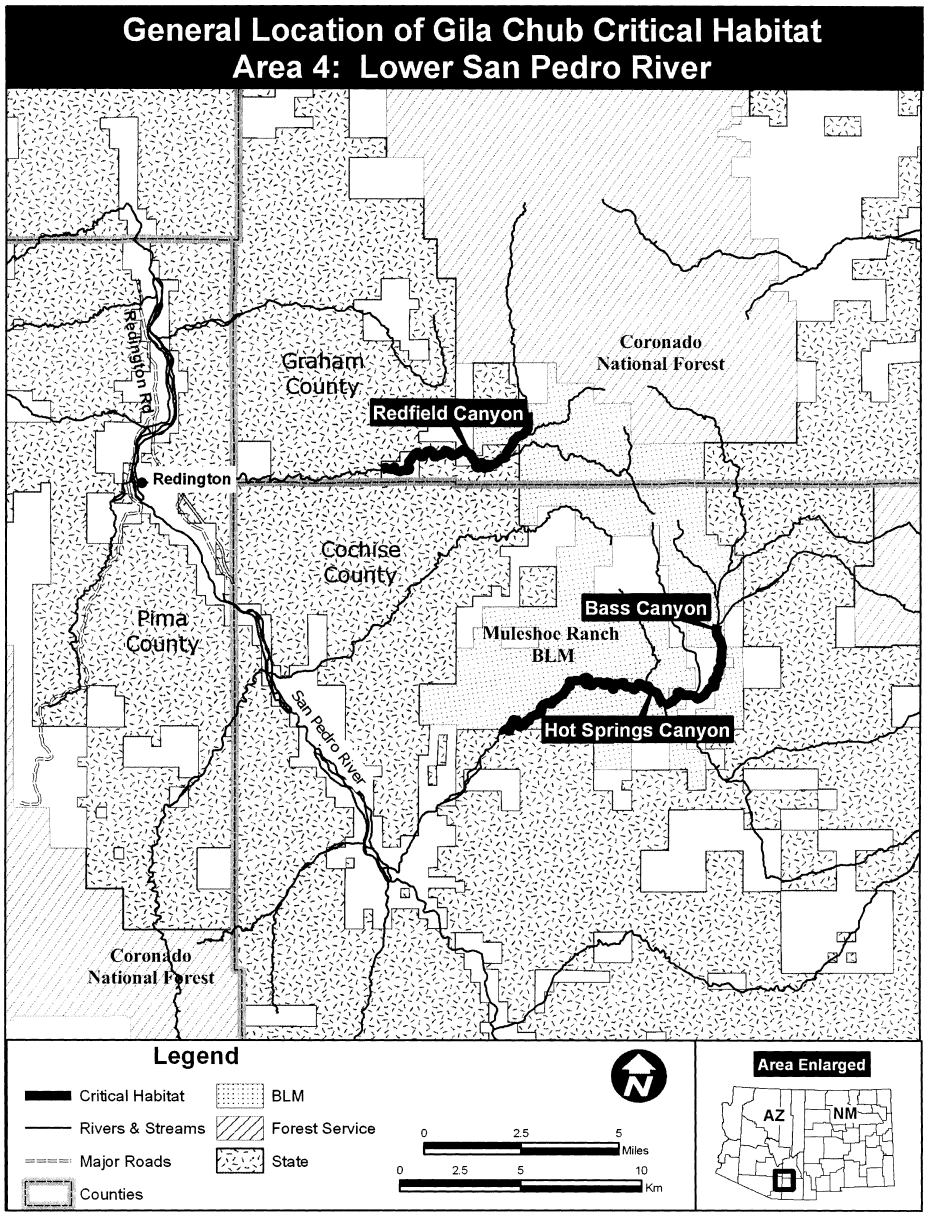
(10) Area 4: Lower San Pedro River—Cochise and Graham Counties, Arizona.

(i) Bass Canyon: 5.5 km (3.4 mi) of creek extending from its confluence with Hot Springs Canyon in T12S, R20E, sec. 36 NE¼ upstream to the confluence with Pine Canyon in T12S, R21E, sec. 20 SW¼. Land ownership: Bureau of Land Management and private.

(ii) Hot Springs Canyon: 10.5 km (6.5 mi) of creek extending from T13S R20E, sec. 5 NW¼ continuing upstream to its confluence with Bass Canyon in T12S, R20E, sec. 36 NE¼. Land ownership: Bureau of Land Management, State, and private (The Nature Conservancy).

(iii) Redfield Canyon: 9.8 km (6.1 mi) of creek extending from the western boundary of T11S, R19E, section 35 upstream to its confluence with Sycamore Canyon in T11S, R20E, sec. 28 NE¼. Land ownership: Bureau of Land Management, State, and private.

(iv) Note: Map of Area 4, Lower San Pedro River, (Map 5) follows:



(11) Area 5: Lower Santa Cruz River—Pima County, Arizona.

(i) Cienega Creek: (Two Segments). First segment includes 14.2 km (8.8 mi) of creek extending from where Cienega Creek becomes Pantano Wash T16S, R16E, at the boundary of sec. 14 and sec. 23 to where it crosses Interstate 10 at T17S, R17E, sec. 1 NW¼. Land ownership: County and State Trust. Second segment includes 13.6 km (8.4 mi) of creek extending from T18S, R18E, sec. 6 S½ to its confluence with Empire Gulch at

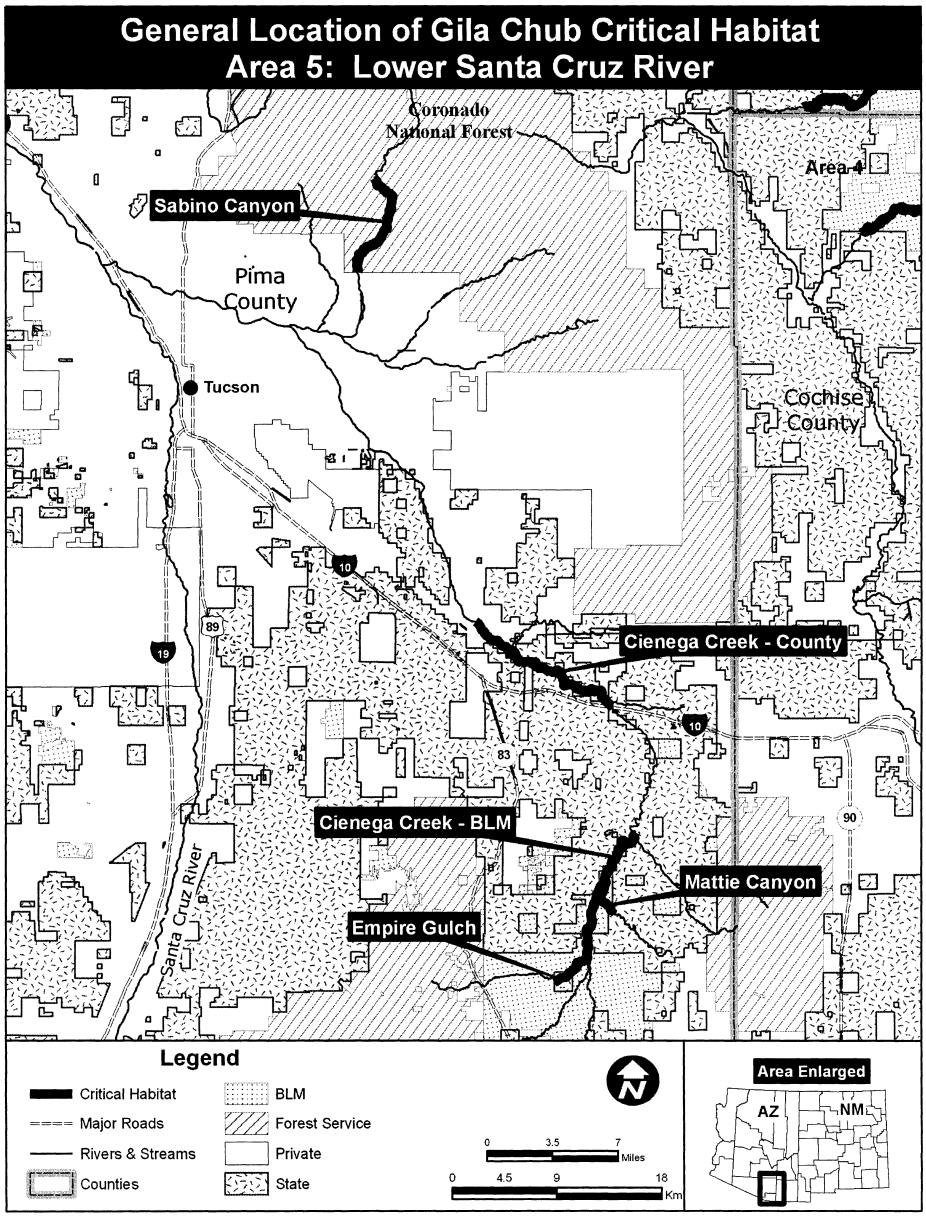
T19S, R17E, sec. 3 SE¼. Land ownership: Bureau of Land Management and State.

(ii) Mattie Canyon: 4.0 km (2.5 mi) of creek extending from its confluence with Cienega Creek in T18S, R17E, sec. 23 NE¼ upstream to the Bureau of Land Management Boundary in T18S, R17E, sec. 25 SW¼. Land Ownership: Bureau of Land Management.

(iii) Empire Gulch: 5.2 km (3.2 mi) of creek extending from its confluence with Cienega Creek in T19S, R17E, sec. 3 SE¼ continuing upstream to T19S, R17E, sec. 16 NW¼ on the western boundary of section 16. Land Ownership: Bureau of Land Management and State.

(iv) Sabino Canyon: 11.1 km (6.9 mi) of creek extending from the southern boundary of the Coronado National Forest in T13S, R15E, sec. 9 SE¼ upstream to its confluence with the West Fork of Sabino Canyonin T12S, R15E, sec. 22 NE¼. Land ownership: Coronado National Forest.

(v) Note: Map of Area 5, Lower Santa Cruz River, (Map 6) follows:



(12) Area 6: Upper Verde River—Yavapai County, Arizona.

(i) Walker Creek: 7.6 km (4.7 mi) of creek extending from Prescott National Forest Road 618 in T15N, R6E, sec. 33 SW¼ upstream to its confluence with Spring Creek in T14N, R6E, sec. 1, SE¼. Land ownership: Coconino National Forest and private.

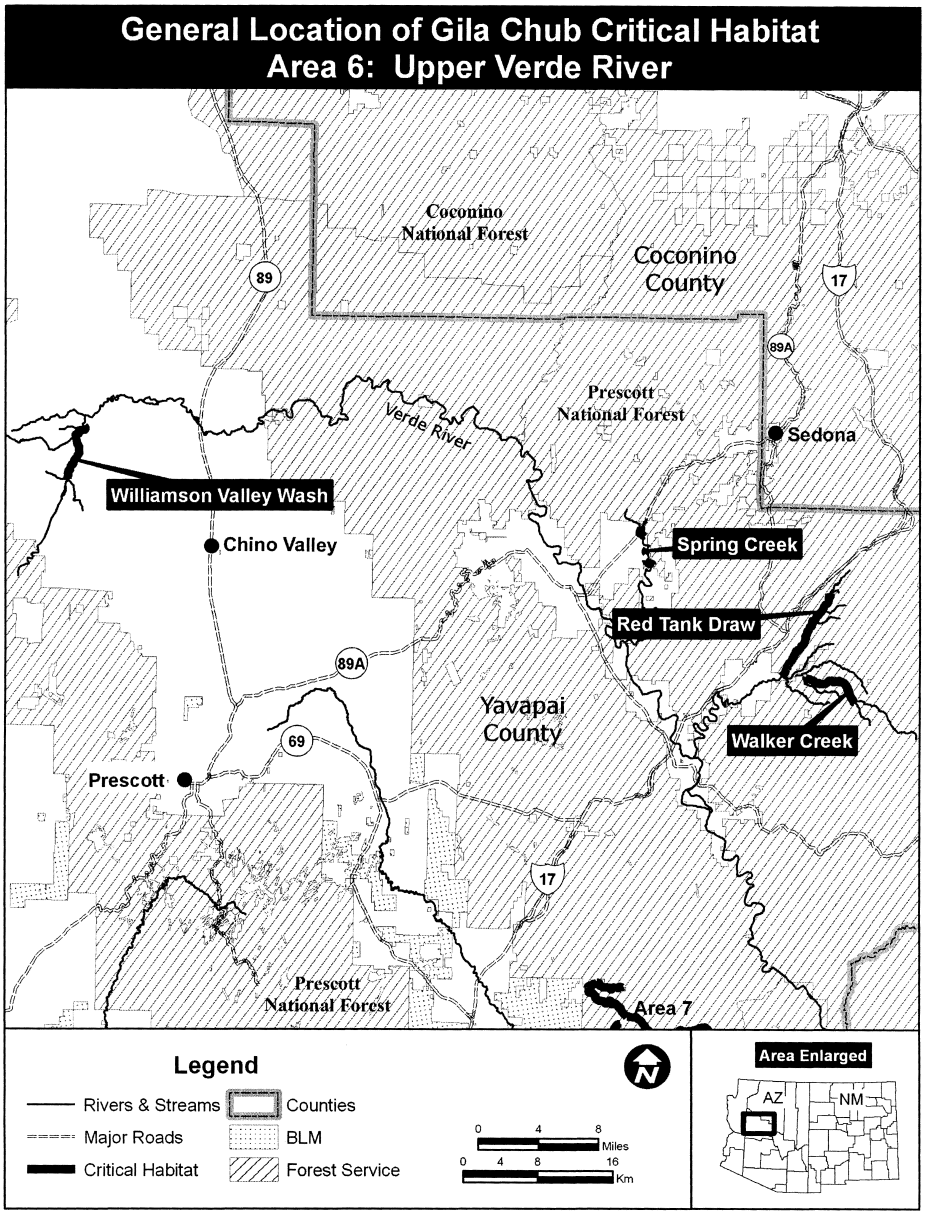
(ii) Red Tank Draw: 11.1 km (6.9 mi) of creek extending from the National Park Service boundary just upstream of its confluence with Wet Beaver Creek in T15N, R6E,

sec. 31 NE¼ upstream to the confluence of Mullican and Rarick canyons in T15N, R6E, sec. 2 NW¼. Land ownership: Coconino National Forest and private.

(iii) Spring Creek: 2.7 km (1.7 mi) of creek including all non-private land extending from T16N, R4E, sec. 27 SE¼ at the boundary of Forest Service land and continuing upstream to the Arizona Highway 89A crossing in T16N, R4E, sec. 16 SE¼. Land ownership: Coconino National Forest, and State.

(iv) Williamson Valley Wash: 7.2 km (4.4 mi) of creek extending from the gauging station in T17N, R3W, sec. 7 SE¼ upstream to the crossing of the Williamson Valley Road in T17N, R4W, sec. 36 NE¼. Land ownership: private.

(v) Note: Map of Area 6, Upper Verde River, (Map 7) follows:



(13) Area 7: Agua Fria River—Yavapai County, Arizona.

(i) Little Sycamore Creek: 4.7 km (2.9 mi) of creek extending from its confluence with Sycamore Creek in T11N, R4E, sec. 6 SW¼ upstream to T11N, R4E, sec. 4 NE¼. Land ownership: Prescott National Forest and private.

(ii) Sycamore Creek: 18.3 km (11.4 mi) of creek extending from its confluence with Little Sycamore Creek at T11N, R4E, sec. 6 SW¼ upstream to Nelson Place Spring in

T11N, R5E, sec. 21 NE¼. Land ownership: Prescott National Forest and private.

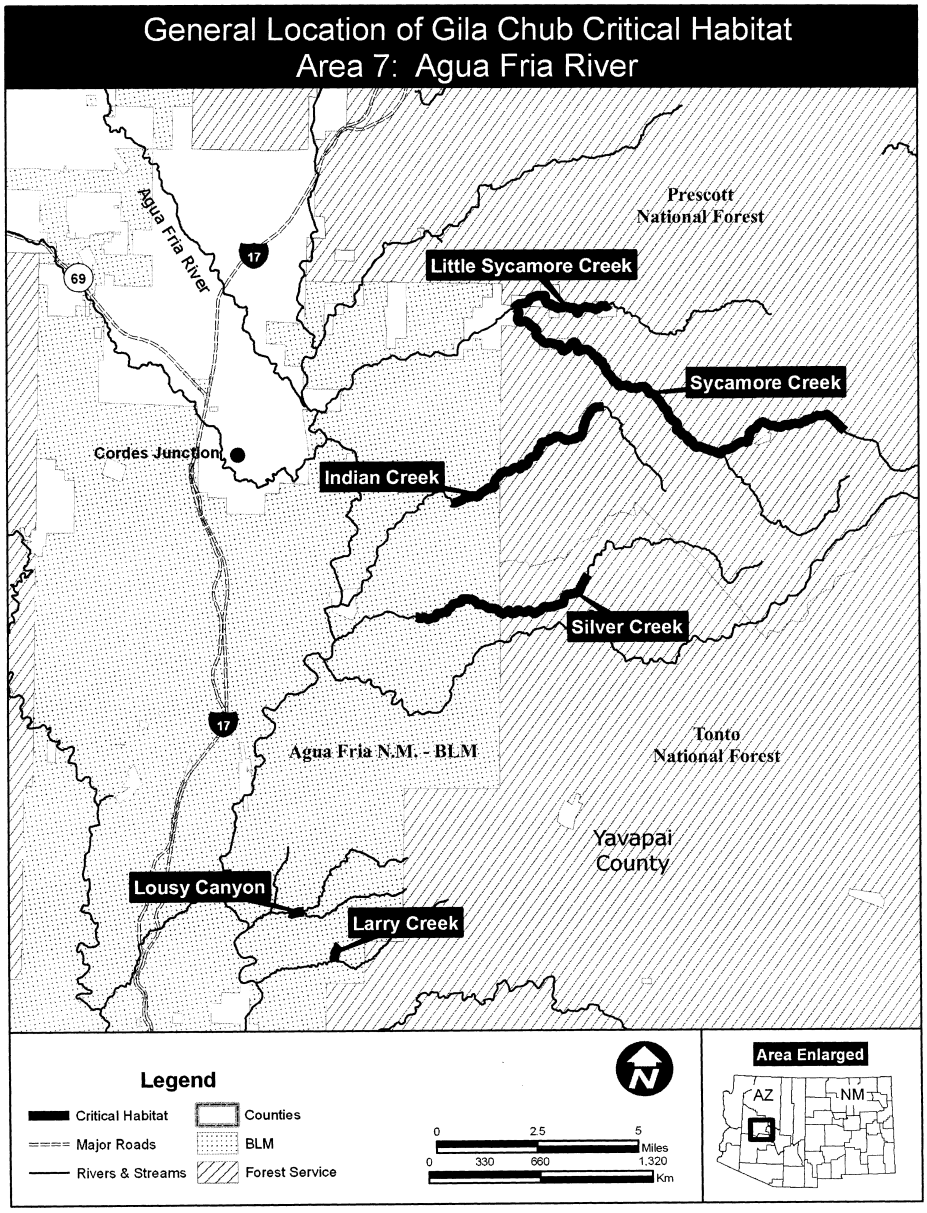
(iii) Indian Creek: 8.4 km (5.2 mi) of creek extending from T11N, R3E, sec. 35 NE¼ to Upper Water Springs in T11N, R4E, sec. 16 SE¼. Land ownership: Bureau of Land Management, Prescott National Forest, and private.

(iv) Silver Creek: 8.5 km (5.3 mi) of creek extending from T10N, R3E, sec. 10 SE¼ continuing upstream to the spring in T10N, R4E, Sec. 4 SW¼. Land ownership: Tonto National Forest and Bureau of Land Management.

(v) Lousy Canyon: Portions of the creek from the confluence of an unnamed tributary upstream to the fork with an unnamed tributary approximately 0.6 km (0.4 mi) upstream, all entirely T9N, R3E, sec. 5 NW¼. Land ownership: Bureau of Land Management.

(vi) Larry Creek: Portions of the creek from an unnamed tributary and continuing upstream 0.7 km (0.4 mi) to the confluence of two adjoining unnamed tributaries, entirely within T9N, R3E, sec. 9 NW¼. Land ownership: Bureau of Land Management.

(vii) NOTE: Map of Area 7, Aqua Fria River, (Map 8) follows:



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).

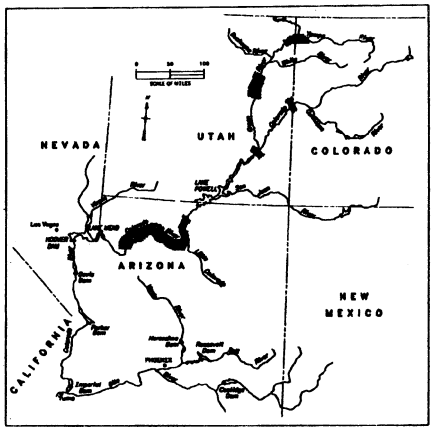
Utah: Grand County; and Colorado: Mesa County. The Colorado River from Black Rocks in T.10S., R.104W., sec. 25 (6th Principal Meridian) to Fish Ford River in T.21S., R.24E., sec. 35 (Salt Lake Meridian).

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.

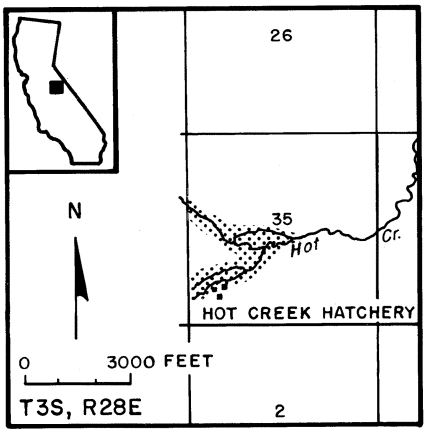


OWENS TUI CHUB (*Gila bicolor snyderi*)

California, Mono County.

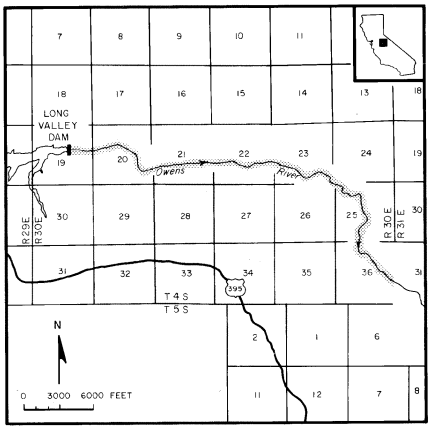
1. Hot Creek, adjacent springs and their outflows in the vicinity of Hot Creek Hatchery, and 50 feet of riparian habitat on all sides of the creek and springs in T3S, R28E, SW¼ Section 35.

NOTE: Map follows:



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:



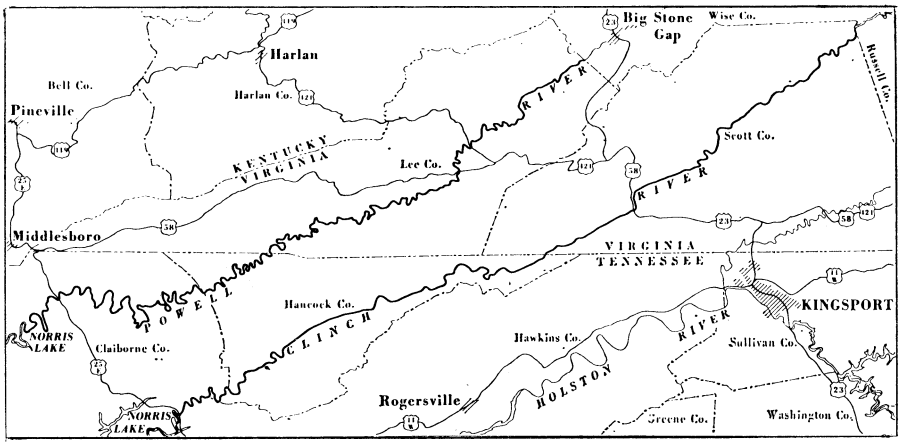
Known constituent elements include high quality, cool water with adequate cover in the form of rocks, undercut banks, or aquatic vegetation and a sufficient insect food base.

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:



SONORA CHUB (*Gila ditaenia*)

Arizona, Santa Cruz County. An area of land and water in the Coronado National Forest, consisting of the following:

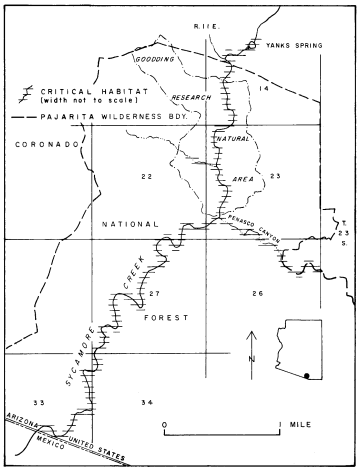
1. Sycamore Creek, and a riparian zone 25 feet wide along each side of the creek, from Yank's Spring downstream approximately 5 stream miles to the International Border with Mexico within sections 14, 22, 23, 27, 33, and 34, T. 23 S.; R. 11 E.

2. Yank's Spring in the SE¼ of the NW¼ 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 (SW¼ of the SW¼ of sec. 23, T. 23 S.; R. 11 E.) upstream approximately 1¼ 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 (SW¼ of the NW¼ of sec. 23, T. 23 S.; R. 11 E.) upstream approximately ¼ mile to the west boundary of the NE¼ of the SE¼ of the NE¼ sec. 22, T. 23 S.; R. 11 E.

NOTE: Map follows:

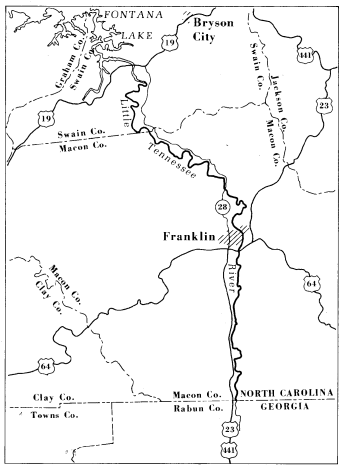


Known primary constituent elements include clean permanent water with pools and intermediate riffle areas and/or intermittent pools maintained by bedrock or by subsurface flow in areas shaded by canyon walls.

SPOTFIN CHUB (*Erimonax monachus*)

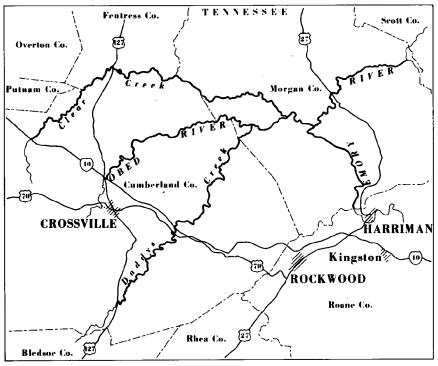
North Carolina. Macon and Swain Counties. Little Tennessee River, main channel from the backwaters of Fontana Lake upstream to the North Carolina-Georgia State line.

NOTE: Map follows:



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.

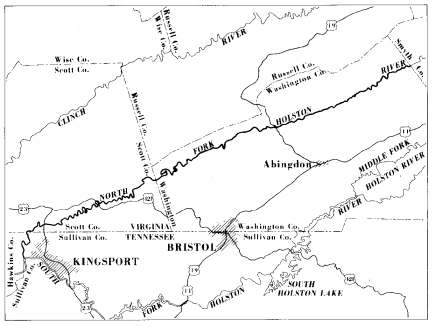
NOTE: Map follows:



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:



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:

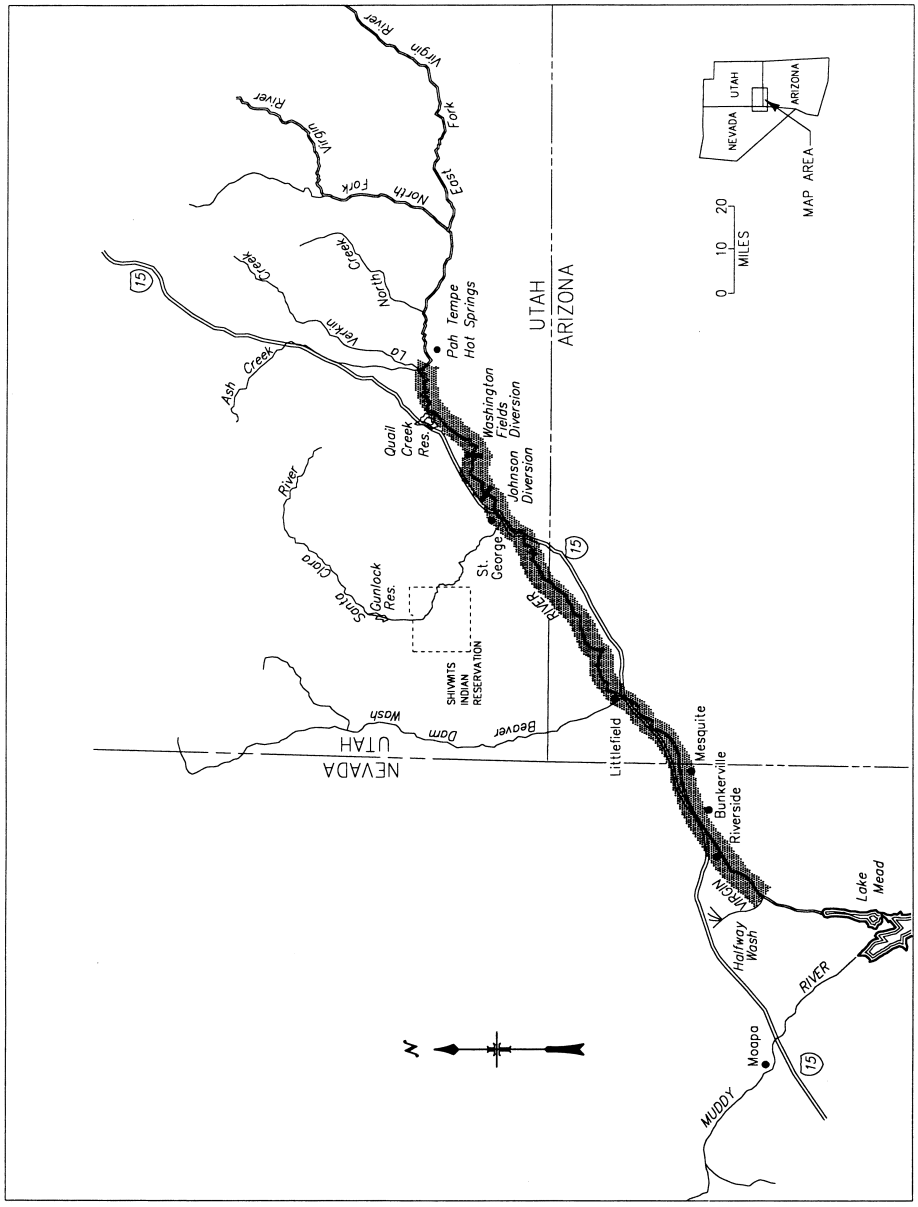
1. River channels, side channels, secondary channels, backwaters, and springs, and other areas which provide access to these habitats; and

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

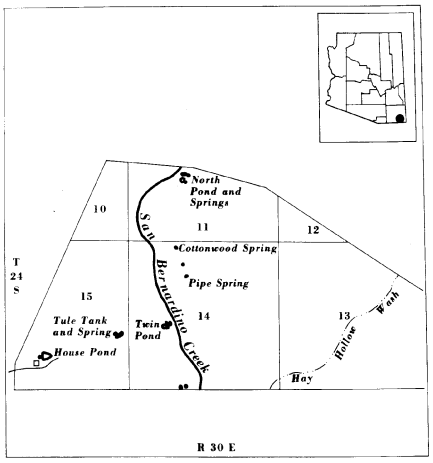
2. few or no predatory or competitive nonnative species in occupied Virgin River fishes' habitats or potential reestablishment sites.



YAQUI CHUB (*Gila purpurea*)

Arizona, Cochise County. All aquatic habitats of San Bernardino NWR in S½ Sec. 11; Sec. 14; S½ and NE¼ 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:



ASH MEADOWS SPECKLED DACE (*Rhinichthys osculus nevadensis*)

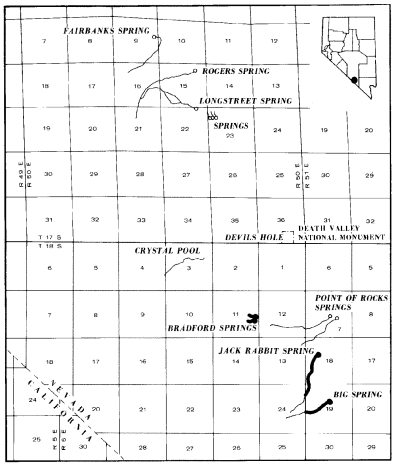
Nevada, Nye County: Each of the following springs and outflows plus surrounding land areas for a distance of 50 meters (164 feet) from these springs and outflows:

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: Map follows:

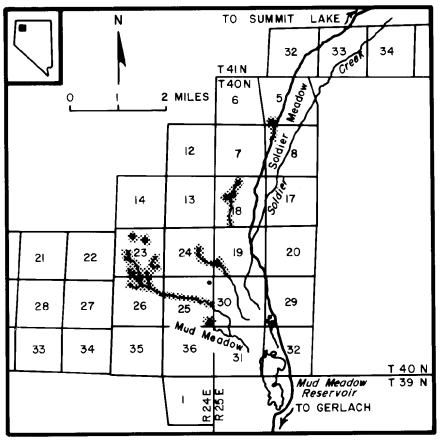


Known constituent elements include warm-water springs and their outflows and surrounding land areas that provide vegetation for cover and habitat for insects and other invertebrates on which the species feeds.

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, SW¼ Section 5, NW¼NW¼ Section 8, W½ Section 18, W½SW¼ Section 19; T40N, R24E, Section 23, N½SE¼ and S½NE¼ Section 24, SE¼ Section 25, N½ Section 25, and N½ Section 26.

NOTE: Map follows:



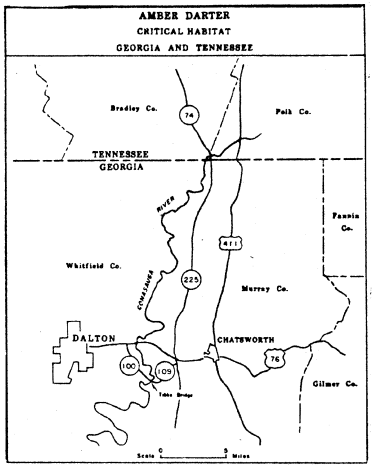
Primary constituent elements of the habitat are considered to be quantity, and thermal and chemical quality of water in headpools and spring outflow streams; presence of a stable, natural substrate supporting food plants for the fish; and length of outflow streams; adequate for seasonal movements in 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.

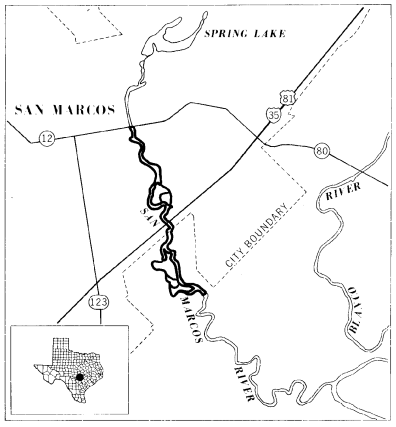
NOTE: Map follows:



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: Map follows:

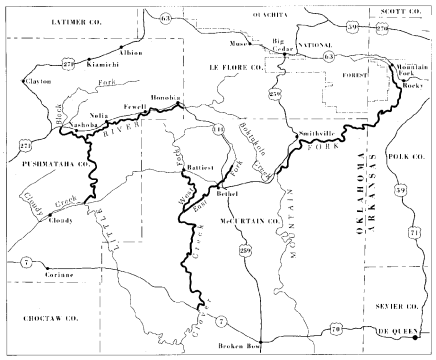


LEOPARD DARTER (*Percina pantherina*)

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).

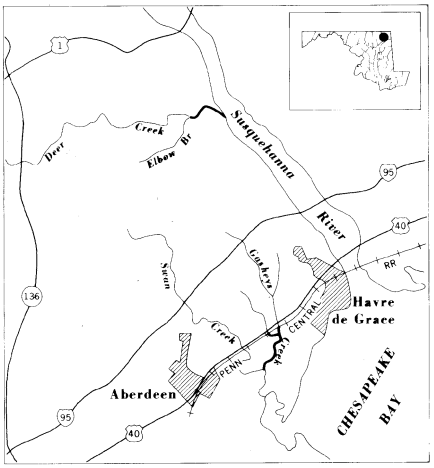
NOTE: Map follows:



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: Map follows:

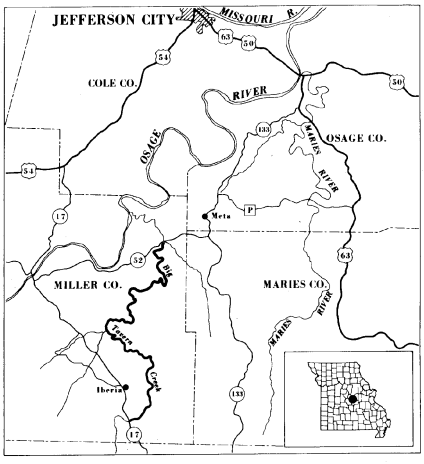


Constituent elements of this habitat are considered to be quality and permanence of streamflow in shallow areas of the streams (riffles), and presence of unsilted rocky crevices for shelter and production of aquatic insects and snails for food.

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.

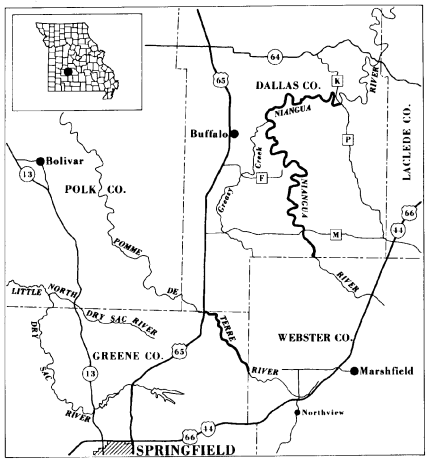
NOTE: Map follows:



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.

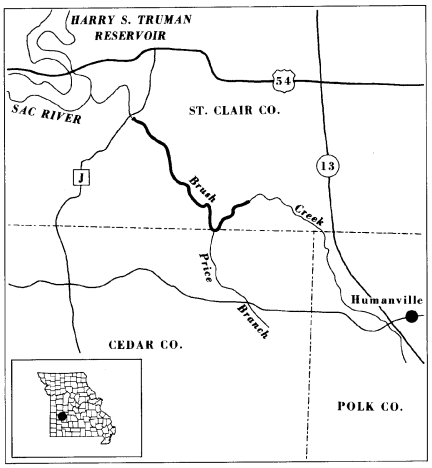
Missouri. Pomme de Terre River, Greene County. Pomme de Terre River and 50 feet on each side of the river from Highway 65 upstream to the Webster County line.

NOTE: Map follows:



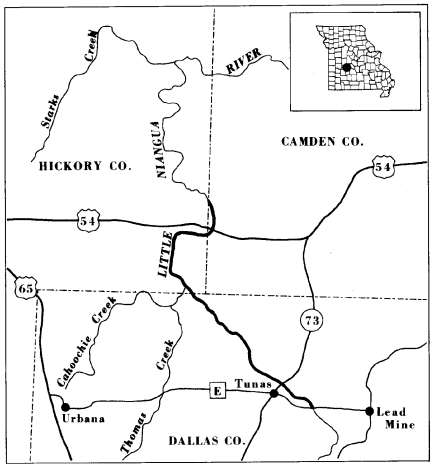
Missouri. Brush Creek, Cedar, and St. Clair Counties. Brush Creek and 50 feet on each side of the creek from 1000 feet upstream of county road J to the boundary of Sections 34 and 35, Township 36 N, Range 25 W.

NOTE: Map follows:



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: Map follows:



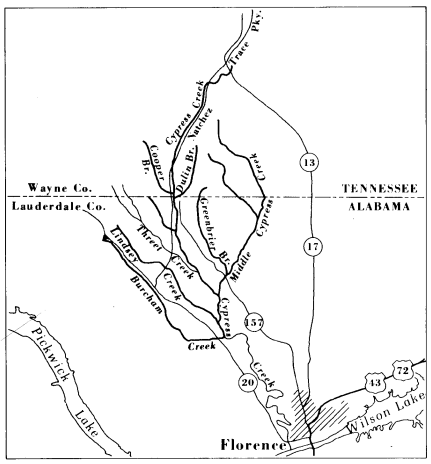
Constituent elements, for all areas designated as critical habitat, consist of medium-sized creeks with silt-free pools and riffles and moderately clear water draining hilly areas underlain by chert and dolomite. Water ranges from 8 to 46 inches in depth over gravel with scattered rubble.

SLACKWATER DARTER (*Etheostoma boschungi*)

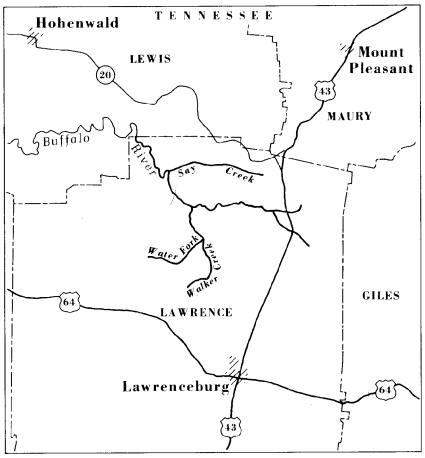
Alabama. Lauderdale County. All permanent and intermittent streams with flowing water from December to June tributary to Cypress Creek and its tributaries upstream from the junction of Burcham Creek, including Burcham Creek, excluding Threet Creek and its tributaries.

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.



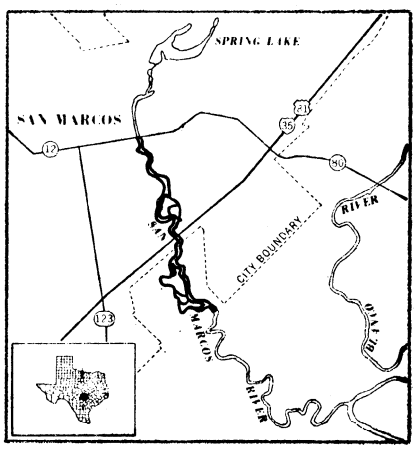
Tennessee. Lawrence County, Buffalo River and its tributaries in Lawrence County, Tenn.



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: Map follows:



TIDEWATER GOBY (*Eucyclogobius newberryi*)

(1) Critical habitat units are depicted for Del Norte, Humboldt, Mendocino, Sonoma, Marin, San Mateo, Santa Cruz, Monterey, San Luis Obispo, Santa Barbara, Ventura, and Los Angeles Counties, California, on the maps below.

(2) The primary constituent elements of critical habitat for the tidewater goby are the habitat components that provide:

(i) Persistent, shallow (in the range of about 0.1 to 2 m), still-to-slow-moving aquatic habitat most commonly ranging in salinity from less than 0.5 ppt to about 10 to 12 ppt;

(ii) Substrates (e.g., sand, silt, mud) suitable for the construction of burrows for reproduction;

(iii) Submerged and emergent aquatic vegetation, such as *Potamogeton pectinatus* and *Ruppia maritima*, that provides protection from predators; and

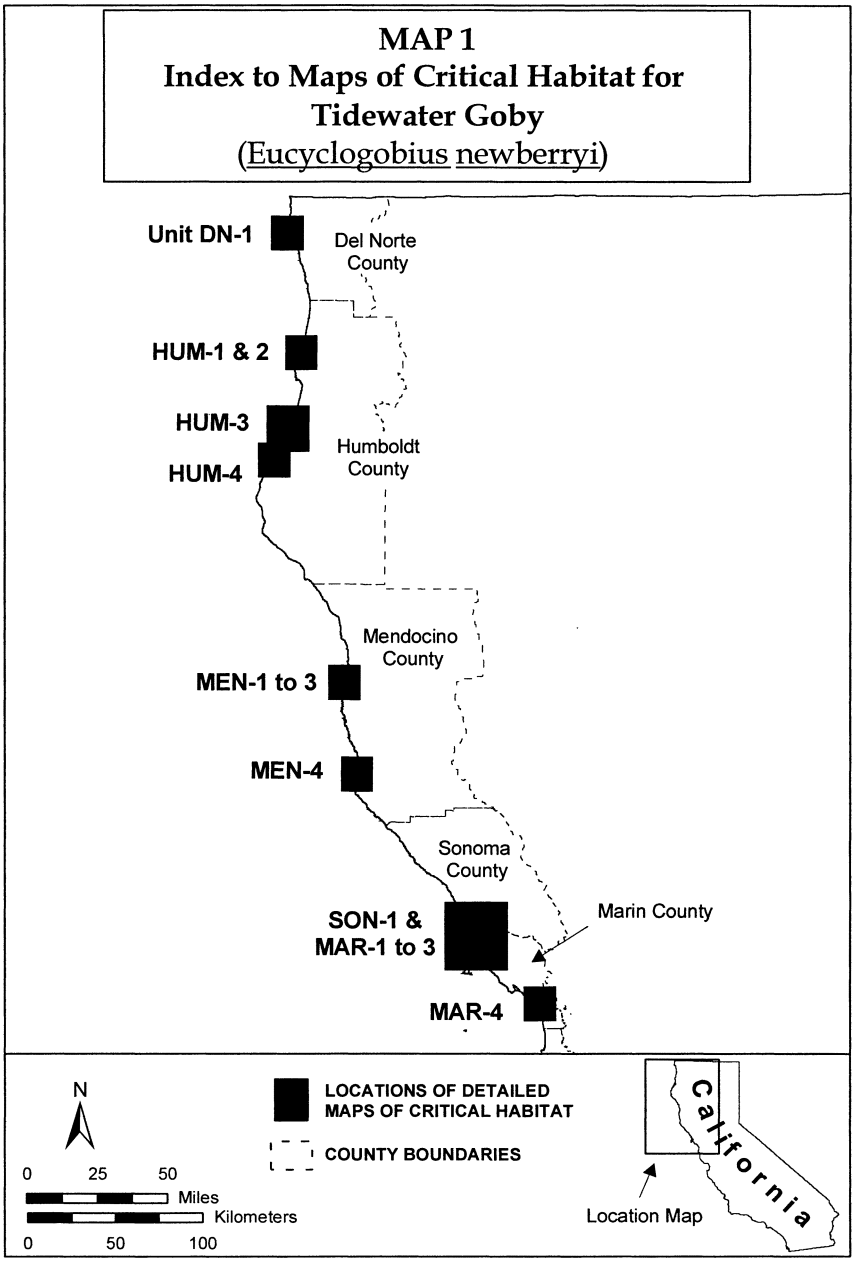
(iv) Presence of a sandbar(s) across the mouth of a lagoon or estuary during the late spring, summer, and fall that closes or partially closes the lagoon or estuary, thereby providing relatively stable water levels and salinity.

(3) Critical habitat does not include manmade structures (such as buildings, aqueducts, airports, and roads, and the land on which such structures are located) existing on the effective date of this rule and not containing one or more of the PCEs.

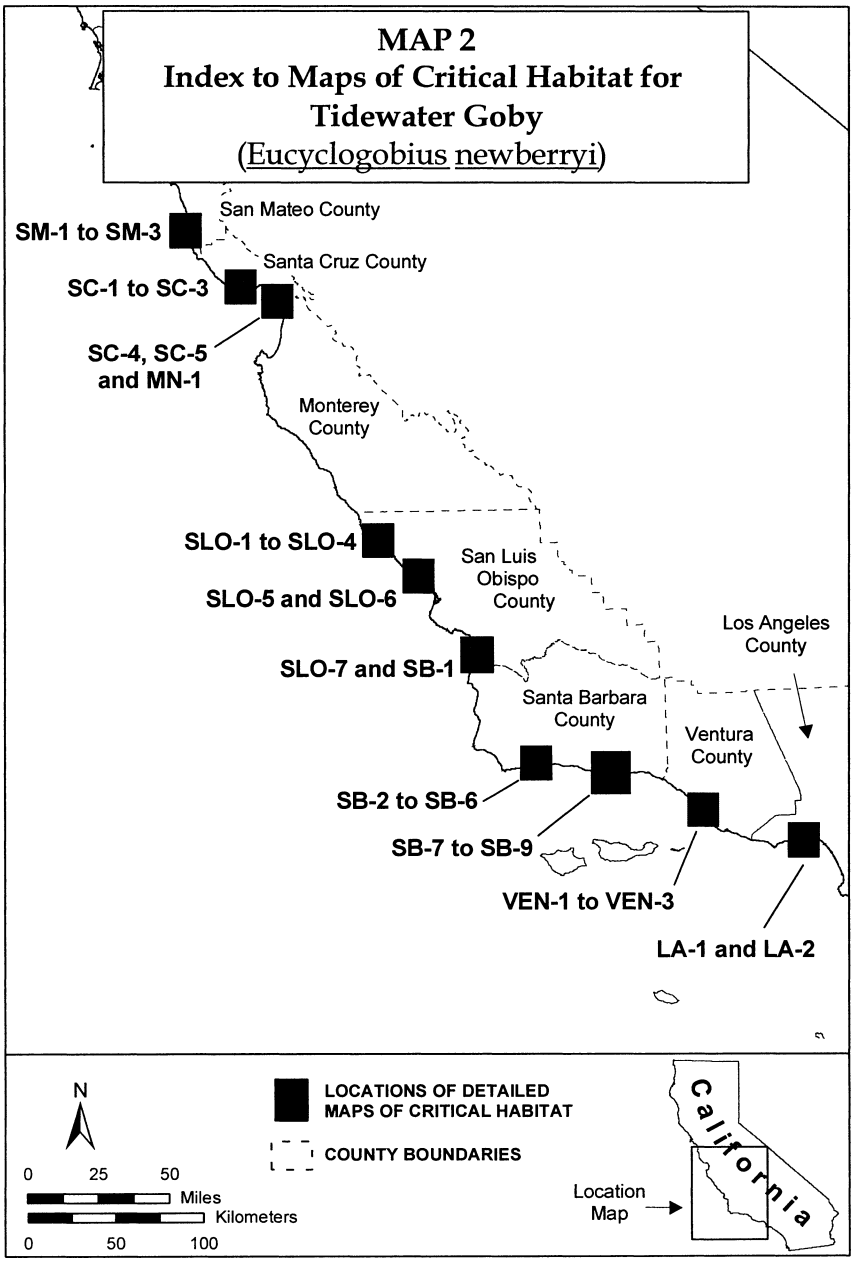
(4) *Critical habitat map units.* Boundaries of critical habitat were defined for most units using National Wetlands Inventory (NWI) data (both published data available over the internet and in-publication provisional data). Where NWI data was lacking, unit boundaries were digitized directly on imagery from the Department of Agriculture's National Aerial Imagery Program data (NAIP) acquired in 2005. NAIP and NWI data were projected to Universal Transverse Mercator (UTM), zones 10 and 11, on the North American Datum of 1983.

(5) Index to maps of critical habitat for tidewater goby.

(i) *Note:* Map 1 of Index to maps of critical habitat for tidewater goby follows.



(ii) *Note:* Map 2 of Index to maps of critical habitat for tidewater goby follows.

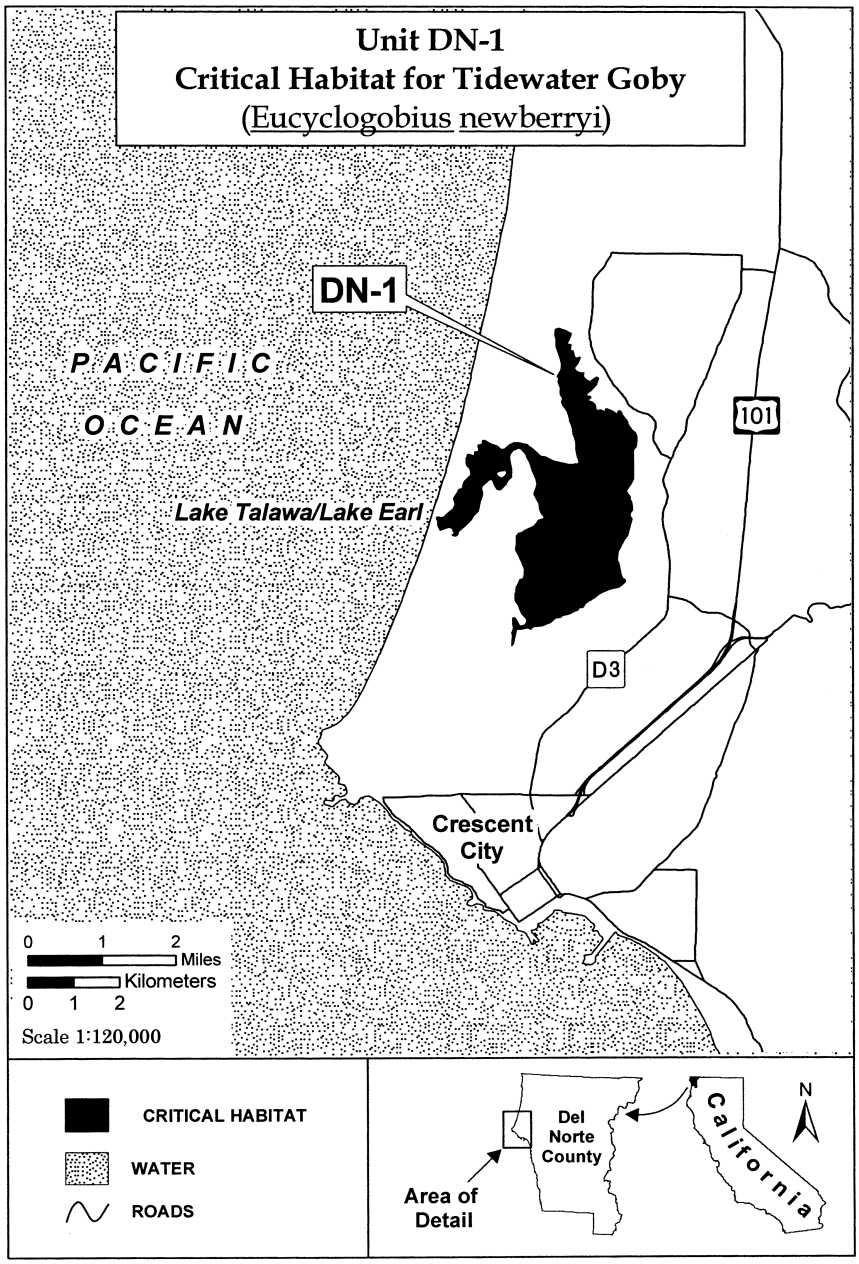


(6) Unit DN–1; Del Norte County, California.

(i) From USGS 1:24,000 scale quadrangle Crescent City. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 398215, 4631301; 398219, 4631313; 398228, 4631341; 398279, 4631340; 398325, 4631324; 398371, 4631334; 398505, 4631467; 398579, 4631522; 398623,

4631595; 398624, 4631645; 398600, 4631737; 398603, 4631783; 398665, 4631868; 398689, 4631921; 398709, 4631944; 398773, 4631963; 398796, 4631999; 398808, 4632080; 398826, 4632118; 398947, 4632241; 398965, 4632271; 398963, 4632327; 398939, 4632408; 398882, 4632465; 398859, 4632511; 398866, 4632625; 398895, 4632716; 398906, 4632726; 399042, 4632686; 399052, 4632691; 399053, 4632760; 399066, 4632775; 399135, 4632782; 399133, 4632845; 399118, 4632863; 399124, 4632921; 399193, 4632933; 399216, 4632958; 399222, 4633001; 399245, 4633026; 399286, 4633023; 399404, 4632945; 399553, 4632890; 399608, 4632831; 399638, 4632823; 399700, 4632835; 399800, 4632920; 399905, 4632967; 399943, 4632974; 399958, 4632972; 399988, 4632969; 400004, 4632968; 400113, 4632943; 400184, 4632937; 400229, 4632899; 400302, 4632852; 400410, 4632749; 400447, 4632700; 400513, 4632666; 400579, 4632657; 400763, 4632563; 401092, 4632485; 401201, 4632486; 401217, 4632506; 401290, 4632508; 401308, 4632531; 401307, 4632604; 401277, 4632648; 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401575, 4633987; 401577, 4633949; 401510, 4633917; 401508, 4633894; 401621, 4633845; 401671, 4633798; 401683, 4633704; 401705, 4633678; 401728, 4633675; 401779, 4633693; 401809, 4633674; 401885, 4633650; 401889, 4633719; 401924, 4633721; 402038, 4633671; 402126, 4633606; 402151, 4633606; 402175, 4633667; 402208, 4633671; 402241, 4633633; 402253, 4633584; 402355, 4633459; 402377, 4633415; 402380, 4633385; 402402, 4633341; 402477, 4633241; 402534, 4633187; 402574, 4633105; 402580, 4633018; 402563, 4632904; 402548, 4632859; 402506, 4632806; 402500, 4632743; 402503, 4632199; 402497, 4632166; 402429, 4632027; 402352, 4631932; 402346, 4631909; 402376, 4631845; 402431, 4631783; 402433, 4631707; 402453, 4631684; 402483, 4631531; 402483, 4631491; 402431, 4631415; 402425, 4631372; 402433, 4631344; 402463, 4631303; 402465, 4631283; 402368, 4630918; 402298, 4630820; 402160, 4630568; 402153, 4630383; 402182, 4630308; 402237, 4630049; 402272, 4629980; 402302, 4629971; 402324, 4629943; 402324, 4629915; 402255, 4629848; 402170, 4629795; 402002, 4629757; 401859, 4629698; 401756, 4629646; 401669, 4629581; 401487, 4629467; 401449, 4629435; 401397, 4629351; 401315, 4629337; 401292, 4629300; 401210, 4629270; 401102, 4629203; 400998, 4629189; 400952, 4629170; 400921, 4629129; 400814, 4629118; 400781, 4629103; 400701, 4629023; 400622, 4629001; 400517, 4628950; 400306, 4628930; 400291, 4628915; 400280, 4628884; 400262, 4628882; 400214, 4628900; 400161, 4628906; 400059, 4628872; 399968, 4628873; 399952, 4628853; 399882, 4628547; 399858, 4628519; 399838, 4628512; 399839, 4628588; 399861, 4628702; 399862, 4628758; 399850, 4628796; 399879, 4628908; 399870, 4628984; 399874, 4629121; 399885, 4629134; 399902, 4629134; 399950, 4629087; 400012, 4628967; 400040, 4628951; 400108, 4628963; 400168, 4629013; 400169, 4629089; 400069, 4629222; 400024, 4629304; 399990, 4629406; 399918, 4629514; 399917, 4629649; 399944, 4629714; 399942, 4629798; 399981, 4629859; 400033, 4629970; 400107, 4629994; 400118, 4630030; 400130, 4630189; 400096, 4630259; 400067, 4630361; 400015, 4630443; 400010, 4630473; 399975, 4630535; 399933, 4630632; 399939, 4630685; 399958, 4630728; 399953, 4630918; 399976, 4630964; 400002, 4630981; 400068, 4630996; 400135, 4631045; 400326, 4631134; 400399, 4631220; 400430, 4631267; 400453, 4631280; 400519, 4631292; 400550, 4631309; 400550, 4631345; 400488, 4631409; 400461, 4631516; 400446, 4631547; 400440, 4631608; 400423, 4631666; 400336, 4631835; 400337, 4631866; 400371, 4631952; 400398, 4632068; 400384, 4632144; 400359, 4632208; 400292, 4632357; 400242, 4632535; 400177, 4632645; 400165, 4632699; 400130, 4632750; 400063, 4632825; 400037, 4632838; 400007, 4632841; 399956, 4632826; 399884, 4632792; 399853, 4632766; 399831, 4632723; 399812, 4632678; 399823, 4632561; 399856, 4632388; 399859, 4632210; 399781, 4632145; 399737, 4632049; 399631, 4631947; 399601, 4631929; 399540, 4631945; 399500, 4631997; 399431, 4632158; 399416, 4632165; 399362, 4632153; 399223, 4632011; 399210, 4631980; 399209, 4631924; 399226, 4631861; 399225, 4631787; 399181, 4631696; 399145, 4631514; 399117, 4631451; 399021, 4631353; 398972, 4631262; 398879, 4631164; 398707, 4631027; 398691, 4631002; 398688, 4630959; 398678, 4630944; 398644, 4630929; 398561, 4630930; 398561, 4630950; 398620, 4630993; 398585, 4631026; 398570, 4631077; 398538, 4631108; 398454, 4631109; 398313, 4631043; 398283, 4631063; 398241, 4631163; 398237, 4631252; returning to 398215, 4631301; excluding land bounded by: 399568, 4632334; 399524, 4632296; 399527, 4632273; 399577, 4632222; 399640, 4632198; 399676, 4632205; 399727, 4632260; 399748, 4632318; 399744, 4632344; 399716, 4632362; 399655, 4632360; 399645, 4632357; returning to 399568, 4632334.

(ii) *Note:* Map of Unit DNT–1 follows.

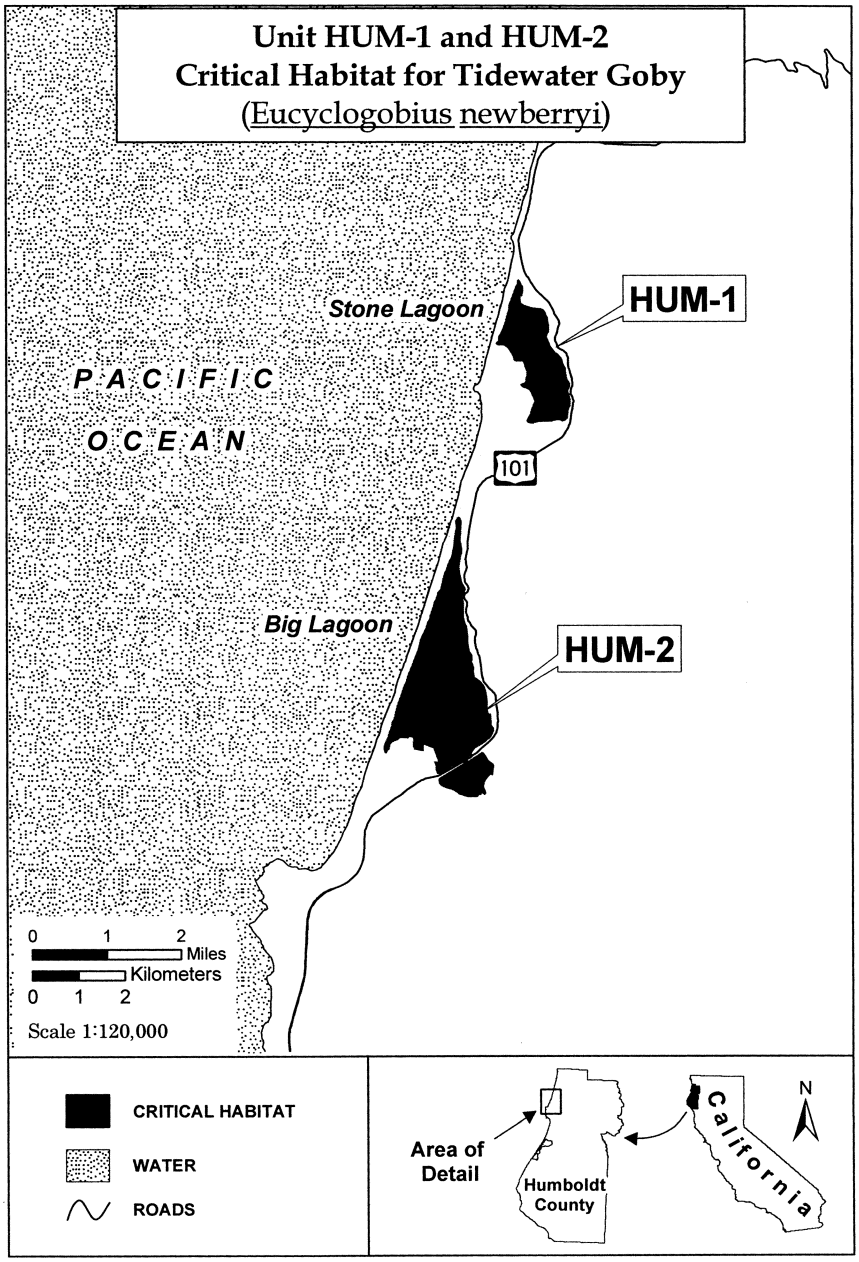


(7) Unit HUM–1; Humboldt County, California.

(i) From USGS 1:24,000 scale quadrangles Orick and Rodgers Peak. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 407547, 4566545; 407550, 4566573; 407596, 4566611; 407600, 4566697; 407685, 4566848; 407746, 4567008; 407759, 4567078; 407799, 4567202;

407828, 4567303; 407832, 4567384; 407974, 4567789; 408015, 4567860; 408016, 4567903; 408008, 4567923; 408024, 4567944; 408042, 4567946; 408057, 4567930; 408084, 4567895; 408094, 4567849; 408121, 4567815; 408131, 4567787; 408140, 4567691; 408114, 4567594; 408068, 4567595; 408070, 4567519; 408081, 4567450; 408094, 4567424; 408157, 4567386; 408316, 4567335; 408524, 4567320; 408565, 4567299; 408605, 4567256; 408669, 4567113; 408674, 4567067; 408700, 4566955; 408701, 4566818; 408646, 4566722; 408641, 4566689; 408681, 4566625; 408738, 4566495; 408790, 4566408; 408830, 4566364; 408890, 4566326; 408963, 4566238; 408983, 4566187; 408997, 4566116; 409047, 4566042; 409059, 4566011; 409061, 4565942; 409087, 4565790; 409147, 4565687; 409151, 4565626; 409115, 4565540; 409114, 4565492; 409134, 4565454; 409153, 4565319; 409156, 4565200; 409114, 4565098; 409104, 4565050; 409102, 4564916; 409066, 4564881; 409023, 4564863; 408982, 4564859; 408936, 4564880; 408858, 4564883; 408751, 4564857; 408484, 4564842; 408402, 4564830; 408359, 4564805; 408321, 4564806; 408230, 4564835; 408217, 4564848; 408220, 4564881; 408282, 4564984; 408311, 4565057; 408327, 4565146; 408385, 4565293; 408380, 4565326; 408314, 4565466; 408304, 4565505; 408271, 4565548; 408223, 4565572; 408130, 4565596; 408084, 4565629; 408087, 4565660; 408174, 4565699; 408190, 4565717; 408201, 4565793; 408222, 4565849; 408220, 4565955; 408181, 4566037; 408164, 4566124; 408132, 4566175; 407982, 4566169; 407939, 4566197; 407930, 4566266; 407815, 4566445; 407722, 4566523; 407580, 4566519; returning to 407547, 4566545.

(ii) *Note:* Map of Unit HUM–1 follows.



(8) Unit HUM–2; Humboldt County, California.

(i) From USGS 1:24,000 scale quadrangles Rodgers Peak and Trinidad. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 405094, 4557688; 405100, 4557744; 405129, 4557807; 405137, 4557852; 405179, 4557936; 405195, 4558006; 405266, 4558196; 405272, 4558252;

405332, 4558393; 405341, 4558464; 405397, 4558649; 405479, 4558879; 405535, 4559074; 405569, 4559137; 405627, 4559309; 405708, 4559498; 405732, 4559592; 405763, 4559632; 405847, 4559862; 405850, 4559913; 405893, 4560073; 405961, 4560234; 405995, 4560300; 406053, 4560459; 406099, 4560535; 406102, 4560586; 406176, 4560803; 406180, 4560862; 406260, 4561023; 406274, 4561099; 406336, 4561175; 406349, 4561258; 406368, 4561312; 406382, 4561388; 406416, 4561524; 406461, 4561618; 406471, 4561671; 406526, 4561805; 406550, 4561835; 406578, 4561908; 406600, 4562053; 406611, 4562071; 406639, 4562294; 406643, 4562408; 406674, 4562489; 406675, 4562563; 406661, 4562616; 406664, 4562654; 406680, 4562702; 406698, 4562730; 406731, 4562742; 406758, 4562714; 406780, 4562645; 406770, 4562399; 406752, 4562226; 406782, 4562132; 406784, 4562089; 406791, 4562079; 406790, 4561964; 406769, 4561896; 406730, 4561655; 406742, 4561541; 406749, 4561535; 406795, 4561316; 406817, 4561265; 406857, 4561214; 406872, 4561178; 406871, 4561145; 406812, 4561055; 406799, 4561024; 406827, 4560877; 406829, 4560546; 406853, 4560442; 406885, 4560365; 406918, 4560162; 406914, 4560030; 406935, 4559890; 406950, 4559857; 406957, 4559816; 407017, 4559729; 407016, 4559635; 407005, 4559581; 407052, 4559464; 407051, 4559439; 407038, 4559396; 407059, 4559261; 407178, 4559173; 407255, 4559081; 407305, 4558973; 407340, 4558759; 407348, 4558538; 407367, 4558454; 407377, 4558449; 407418, 4558456; 407423, 4558245; 407432, 4558207; 407475, 4558133; 407474, 4558077; 407451, 4558021; 407401, 4557943; 407260, 4557821; 407078, 4557703; 407035, 4557668; 407006, 4557623; 406988, 4557555; 406934, 4557532; 406874, 4557490; 406915, 4557415; 406916, 4557415; 407112, 4557533; 407219, 4557613; 407252, 4557597; 407310, 4557530; 407325, 4557479; 407362, 4557428; 407458, 4557351; 407472, 4557318; 407468, 4557163; 407457, 4557112; 407427, 4557125; 407402, 4557125; 407353, 4557085; 407296, 4556997; 407267, 4556924; 407259, 4556860; 407276, 4556792; 407310, 4556730; 407310, 4556712; 407284, 4556690; 407224, 4556719; 407201, 4556711; 407193, 4556688; 407150, 4556679; 407129, 4556649; 407083, 4556634; 406936, 4556631; 406840, 4556662; 406792, 4556683; 406726, 4556699; 406686, 4556735; 406587, 4556795; 406428, 4556840; 406337, 4556884; 406292, 4556946; 406280, 4557002; 406285, 4557027; 406306, 4557047; 406833, 4557365; 406795, 4557435; 406716, 4557380; 406588, 4557316; 406361, 4557184; 406292, 4557149; 406261, 4557149; 406239, 4557173; 406219, 4557239; 406215, 4557313; 406191, 4557404; 406186, 4557407; 406277, 4557408; 406168, 4557710; 405948, 4557797; 405948, 4557648; 405763, 4557689; 405752, 4557707; 405737, 4557738; 405728, 4557779; 405728, 4557810; 405732, 4557839; 405741, 4557861; 405733, 4557944; 405655, 4557962; 405615, 4557924; 405524, 4557946; 405456, 4557939; 405392, 4557897; 405297, 4557858; 405264, 4557828; 405238, 4557790; 405208, 4557684; 405170, 4557664; 405146, 4557603; 405126, 4557611; returning to 405094, 4557688.

(ii) *Note:* HUM–2 included on map with unit HUM–1.

(9) Unit HUM–3; Humboldt County, California.

(i) From USGS 1:24,000 scale quadrangles Tyee City. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 405066, 4529314; 405079, 4529311; 405089, 4529308; 405101, 4529303; 405111, 4529297; 405117, 4529288; 405122, 4529288; 405124, 4529293; 405127, 4529303; 405131, 4529315; 405139, 4529323; 405140, 4529328; 405134, 4529335; 405126, 4529339; 405121, 4529352; 405117, 4529353; 405108, 4529355; 405110, 4529361; 405121, 4529366; 405136, 4529367; 405141, 4529362; 405137, 4529354; 405137, 4529349; 405146, 4529341; 405158, 4529336; 405161, 4529328; 405161, 4529322; 405154, 4529315; 405146, 4529308; 405141, 4529295; 405139, 4529273; 405130, 4529262; 405112, 4529252; 405099, 4529259; 405090, 4529274; 405089, 4529294; 405085, 4529296; 405075, 4529300; 405070, 4529307; returning to 405066, 4529314.

(ii) From USGS 1:24,000 scale quadrangle Arcata North. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 405163, 4529039; 405174, 4529059; 405184, 4529079; 405184, 4529091; 405185, 4529106; 405204, 4529103; 405209, 4529111; 405220, 4529135; 405232, 4529158; 405248, 4529168; 405248, 4529155; 405236, 4529137; 405231, 4529113; 405221, 4529095; 405206, 4529084; 405200, 4529062; 405188, 4529041; 405185, 4529031; 405213, 4529004; 405244, 4528990; 405259, 4528982; 405264, 4528990; 405264, 4529004; 405264, 4529023; 405265, 4529041; 405265, 4529051; 405253, 4529072; 405261, 4529119; 405275, 4529150; 405283, 4529165; 405296, 4529172; 405310, 4529192; 405332, 4529201; 405349, 4529201; 405375, 4529219; 405402, 4529231; 405429, 4529227; 405452, 4529225; 405492, 4529233; 405515, 4529233; 405530, 4529228; 405554, 4529232; 405574, 4529237; 405595, 4529237; 405595, 4529225; 405579, 4529223; 405543, 4529213; 405523, 4529208; 405493, 4529217; 405469, 4529212; 405442, 4529206; 405413, 4529209; 405397, 4529204; 405355, 4529185; 405343, 4529181; 405327, 4529178; 405295, 4529154; 405268, 4529082; 405275, 4529064; 405288, 4529045; 405283, 4529028; 405280, 4529011; 405279, 4528980; 405272, 4528968; 405257, 4528962; 405253, 4528929; 405240, 4528913; 405237, 4528921; 405237, 4528934; 405239, 4528952; 405244, 4528972; 405216, 4528981; 405180, 4529007; 405166, 4529027; returning to 405163, 4529039.

(iii) From USGS 1:24,000 scale quadrangles Tyee City. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 404239, 4528501; 404247, 4528509; 404275, 4528506; 404290, 4528506; 404312, 4528520; 404312, 4528532; 404306, 4528550; 404312, 4528567; 404326, 4528569; 404326, 4528564; 404334, 4528571; 404347, 4528584; 404355, 4528593; 404368, 4528597; 404393, 4528612; 404430, 4528623; 404444, 4528632; 404466, 4528628; 404475, 4528623; 404493, 4528623; 404523, 4528629; 404550, 4528646; 404569, 4528670; 404586, 4528686; 404612, 4528692; 404660, 4528695; 404679, 4528708; 404694, 4528719; 404707, 4528724; 404716, 4528726; 404730, 4528744; 404746, 4528757; 404758, 4528770; 404781, 4528786; 404791, 4528795; 404796, 4528807; 404795, 4528829; 404775, 4528866; 404761, 4528885; 404740, 4528891; 404724, 4528891; 404710, 4528879; 404700, 4528869; 404686, 4528869; 404676, 4528879; 404676, 4528897; 404677, 4528912; 404686, 4528912; 404689, 4528899; 404691, 4528885; 404698, 4528885; 404712, 4528897; 404730, 4528904; 404753, 4528903; 404772, 4528897; 404790, 4528871; 404814, 4528822; 404815, 4528806; 404812, 4528789; 404809, 4528776; 404810, 4528770; 404834, 4528767; 404854, 4528766; 404885, 4528756; 404905, 4528756; 404918, 4528767;

404924, 4528788; 404923, 4528837; 404931, 4528838; 404935, 4528832; 404934, 4528784; 404928, 4528761; 404918, 4528749; 404906, 4528743; 404887, 4528744; 404861, 4528751; 404846, 4528754; 404822, 4528756; 404803, 4528757; 404795, 4528762; 404783, 4528753; 404772, 4528745; 404755, 4528741; 404743, 4528735; 404732, 4528727; 404722, 4528712; 404708, 4528701; 404696, 4528695; 404682, 4528686; 404672, 4528683; 404638, 4528679; 404618, 4528675; 404605, 4528672; 404585, 4528658; 404563, 4528639; 404540, 4528624; 404505, 4528612; 404475, 4528609; 404448, 4528608; 404417, 4528603; 404385, 4528592; 404358, 4528571; 404346, 4528562; 404333, 4528544; 404323, 4528518; 404304, 4528498; 404291, 4528492; 404244, 4528496; returning to 404239, 4528501.

(iv) From USGS 1:24,000 scale quadrangle Tyee City. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 404741, 4528632; 404748, 4528640; 404760, 4528654; 404791, 4528683; 404812, 4528695; 404832, 4528699; 404854, 4528694; 404890, 4528667; 404915, 4528656; 404934, 4528658; 404965, 4528679; 404970, 4528702; 404988, 4528718; 405013, 4528721; 405032, 4528722; 405060, 4528734; 405082, 4528734; 405098, 4528734; 405123, 4528745; 405151, 4528769; 405173, 4528774; 405201, 4528780; 405218, 4528778; 405236, 4528789; 405247, 4528774; 405235, 4528764; 405205, 4528758; 405182, 4528758; 405154, 4528745; 405127, 4528725; 405103, 4528715; 405076, 4528715; 405055, 4528713; 405032, 4528702; 405020, 4528698; 404989, 4528681; 404981, 4528648; 404969, 4528632; 404966, 4528569; 404977, 4528534; 404981, 4528503; 405000, 4528469; 404998, 4528459; 404981, 4528430; 404980, 4528349; 404978, 4528329; 404968, 4528332; 404961, 4528355; 404958, 4528423; 404964, 4528439; 404980, 4528463; 404980, 4528471; 404964, 4528502; 404961, 4528524; 404945, 4528567; 404945, 4528603; 404945, 4528628; 404942, 4528638; 404934, 4528623; 404925, 4528616; 404906, 4528626; 404899, 4528639; 404896, 4528644; 404855, 4528670; 404841, 4528679; 404828, 4528682; 404811, 4528677; 404782, 4528651; 404762, 4528624; 404746, 4528624; returning to 404741, 4528632.

(v) From USGS 1:24,000 scale quadrangle Tyee City. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 404557, 4528121; 404567, 4528121; 404584, 4528095; 404593, 4528061; 404619, 4528067; 404641, 4528069; 404679, 4528071; 404796, 4528068; 404850, 4528078; 404855, 4528072; 404850, 4528061; 404836, 4528050; 404597, 4528047; 404575, 4528051; 404572, 4528060; 404572, 4528077; 404572, 4528089; 404561, 4528100; returning to 404557, 4528121.

(vi) From USGS 1:24,000 scale quadrangle Tyee City. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 404115, 4527638; 404116, 4527670; 404128, 4527680; 404140, 4527673; 404158, 4527668; 404170, 4527663; 404187, 4527670; 404202, 4527681; 404214, 4527700; 404220, 4527733; 404225, 4527780; 404234, 4527849; 404259, 4527931; 404267, 4528007; 404277, 4528012; 404277, 4527958; 404274, 4527924; 404256, 4527839; 404254, 4527797; 404247, 4527738; 404235, 4527688; 404227, 4527644; 404207, 4527596; 404180, 4527555; 404165, 4527561; 404157, 4527577; 404140, 4527591; 404126, 4527611; returning to 404115, 4527638.

(vii) From USGS 1:24,000 scale quadrangles Tyee City and Arcata North. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 404279, 4526903; 404312, 4526977; 404324, 4527086; 404336, 4527131; 404384, 4527228; 404452, 4527291; 404497, 4527349; 404526, 4527410; 404563, 4527503; 404609, 4527598; 404671, 4527686; 404788, 4527856; 404817, 4527901; 404826, 4527940; 404847, 4527983; 404873, 4528016; 404887, 4528014; 404896, 4528008; 404856, 4527955; 404842, 4527932; 404842, 4527916; 404837, 4527882; 404819, 4527851; 404790, 4527825; 404742, 4527759; 404680, 4527670; 404630, 4527603; 404600, 4527558; 404537, 4527403; 404534, 4527370; 404518, 4527333; 404457, 4527269; 404397, 4527213; 404379, 4527179; 404351, 4527124; 404339, 4527084; 404327, 4526981; 404321, 4526967; 404298, 4526905; 404327, 4526903; 404341, 4526889; 404351, 4526900; 404369, 4526926; 404391, 4526964; 404418, 4526978; 404439, 4526978; 404452, 4526972; 404473, 4526947; 404504, 4526949; 404627, 4526966; 404662, 4526983; 404677, 4527004; 404688, 4527018; 404747, 4527109; 404745, 4527165; 404685, 4527227; 404623, 4527306; 404628, 4527389; 404668, 4527473; 404794, 4527545; 404869, 4527609; 404960, 4527661; 404964, 4527713; 404988, 4527771; 404995, 4527812; 405007, 4527819; 405021, 4527842; 405025, 4527833; 405015, 4527813; 405003, 4527799; 404993, 4527744; 404981, 4527718; 404980, 4527666; 405017, 4527667; 405053, 4527647; 405075, 4527630; 405089, 4527631; 405140, 4527709; 405183, 4527846; 405171, 4527916; 405165, 4527959; 405167, 4527974; 405187, 4527977; 405209, 4527851; 405177, 4527710; 405127, 4527653; 405125, 4527623; 405111, 4527606; 405082, 4527599; 405059, 4527606; 405032, 4527634; 404997, 4527646; 404900, 4527594; 404727, 4527447; 404675, 4527395; 404678, 4527319; 404705, 4527257; 404782, 4527192; 404804, 4527136; 404722, 4526997; 404675, 4526945; 404679, 4526927; 404667, 4526923; 404652, 4526934; 404460, 4526897; 404410, 4526865; 404386, 4526854; 404360, 4526812; 404342, 4526814; 404333, 4526799; 404319, 4526753; 404312, 4526708; 404318, 4526686; 404318, 4526661; 404310, 4526651; 404300, 4526658; 404296, 4526671; 404303, 4526730; 404304, 4526761; 404313, 4526807; 404311, 4526834; 404292, 4526877; returning to 404279, 4526903.

(viii) From USGS 1:24,000 scale quadrangle Tyee City. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 404211, 4526342; 404305, 4526400; 404370, 4526424; 404419, 4526445; 404531, 4526530; 404556, 4526562; 404582, 4526596; 404653, 4526642; 404689, 4526689; 404692, 4526707; 404698, 4526708; 404702, 4526697; 404712, 4526692; 404706, 4526673; 404684, 4526646; 404686, 4526636; 404696, 4526634; 404696, 4526627; 404659, 4526616; 404649, 4526603; 404623, 4526592; 404602, 4526569; 404580, 4526538; 404553, 4526514; 404480, 4526458; 404482, 4526444; 404473, 4526441; 404463, 4526441; 404430, 4526420; 404380, 4526402; 404379, 4526385; 404431, 4526403; 404471, 4526421; 404521, 4526433; 404589, 4526432; 404677, 4526433; 404727, 4526440; 404741, 4526453; 404749, 4526473; 404752, 4526500; 404759, 4526512; 404794, 4526550; 404867, 4526594; 404884, 4526635; 404921, 4526646; 404977, 4526653; 405047, 4526650; 405064, 4526657; 405082, 4526616; 405098, 4526574; 405131, 4526543; 405195, 4526490; 405193, 4526462; 405185, 4526451; 405171, 4526459; 405160, 4526473; 405138, 4526510; 405115, 4526532; 405089, 4526556; 405070, 4526580; 405057, 4526621; 405045, 4526633; 404986, 4526635;

404909, 4526622; 404893, 4526599; 404871, 4526577; 404806, 4526526; 404781, 4526503; 404770, 4526471; 404762, 4526439; 404750, 4526427; 404732, 4526416; 404682, 4526413; 404635, 4526415; 404599, 4526410; 404542, 4526411; 404509, 4526401; 404453, 4526381; 404403, 4526348; 404328, 4526296; 404283, 4526260; 404271, 4526261; 404247, 4526282; 404245, 4526300; 404255, 4526304; 404271, 4526300; 404362, 4526375; 404362, 4526395; 404326, 4526384; 404297, 4526363; 404266, 4526349; 404242, 4526333; 404234, 4526307; 404217, 4526318; returning to 404211, 4526342.

(ix) From USGS 1:24,000 scale quadrangle Tyee City. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 404159, 4525734; 404159, 4525748; 404181, 4525799; 404211, 4525818; 404249, 4525862; 404248, 4525896; 404237, 4525939; 404229, 4525979; 404240, 4525997; 404240, 4526016; 404226, 4526037; 404220, 4526056; 404230, 4526065; 404248, 4526069; 404248, 4526063; 404241, 4526050; 404244, 4526042; 404256, 4526003; 404262, 4526012; 404270, 4526030; 404279, 4526052; 404291, 4526063; 404294, 4526077; 404303, 4526076; 404302, 4526065; 404290, 4526049; 404282, 4526037; 404277, 4526013; 404298, 4526005; 404305, 4526023; 404313, 4526030; 404321, 4526042; 404330, 4526047; 404341, 4526048; 404352, 4526038; 404366, 4526040; 404382, 4526033; 404406, 4526019; 404403, 4526008; 404365, 4526029; 404345, 4526025; 404340, 4526034; 404331, 4526038; 404324, 4526024; 404312, 4526015; 404311, 4526001; 404303, 4525992; 404289, 4525994; 404275, 4525995; 404270, 4525978; 404275, 4525948; 404271, 4525923; 404286, 4525920; 404294, 4525897; 404257, 4525843; 404257, 4525835; 404213, 4525801; 404177, 4525751; 404197, 4525737; 404215, 4525718; 404207, 4525706; 404183, 4525724; returning to 404159, 4525734.

(x) From USGS 1:24,000 scale quadrangles Tyee City, Eureka, Arcata North, and Arcata South. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 404222, 4525621; 404233, 4525683; 404286, 4525666; 404326, 4525712; 404420, 4525729; 404517, 4525742; 404587, 4525721; 404625, 4525721; 404653, 4525750; 404660, 4525799; 404660, 4525831; 404655, 4525869; 404666, 4525908; 404691, 4525984; 404736, 4526033; 404768, 4526042; 404840, 4526076; 404891, 4526105; 404946, 4526120; 405021, 4526120; 405078, 4526116; 405104, 4526101; 405138, 4526037; 405133, 4526008; 405133, 4525984; 405140, 4525965; 405155, 4525938; 405161, 4525918; 405161, 4525897; 405148, 4525861; 405118, 4525844; 405087, 4525840; 405050, 4525852; 405027, 4525887; 405012, 4525903; 404984, 4525903; 404942, 4525899; 404900, 4525884; 404861, 4525838; 404844, 4525797; 404847, 4525731; 404844, 4525704; 404823, 4525661; 404813, 4525610; 404819, 4525561; 404863, 4525511; 404947, 4525462; 404975, 4525451; 405013, 4525446; 405041, 4525430; 405084, 4525392; 405116, 4525387; 405179, 4525398; 405229, 4525398; 405282, 4525379; 405323, 4525359; 405372, 4525355; 405445, 4525370; 405490, 4525363; 405570, 4525337; 405605, 4525357; 405637, 4525391; 405686, 4525416; 405704, 4525443; 405706, 4525469; 405682, 4525524; 405643, 4525569; 405569, 4525625; 405567, 4525680; 405586, 4525707; 405602, 4525704; 405589, 4525674; 405589, 4525642; 405610, 4525629; 405663, 4525580; 405702, 4525537; 405725, 4525478; 405733, 4525427; 405680, 4525385; 405645, 4525354; 405617, 4525322; 405577, 4525312; 405532, 4525317; 405474, 4525339; 405428, 4525345; 405365, 4525332; 405310, 4525339; 405242, 4525366; 405191, 4525370; 405111, 4525358; 405064, 4525369; 405033, 4525402; 404986, 4525428; 404936, 4525443; 404906, 4525449; 404819, 4525502; 404800, 4525527; 404781, 4525585; 404783, 4525632; 404798, 4525678; 404819, 4525704; 404823, 4525725; 404821, 4525768; 404823, 4525810; 404838, 4525852; 404868, 4525886; 404897, 4525920; 404950, 4525935; 405018, 4525944; 405031, 4525933; 405046, 4525908; 405059, 4525872; 405084, 4525861; 405112, 4525863; 405131, 4525874; 405144, 4525904; 405137, 4525933; 405114, 4525961; 405097, 4525986; 405103, 4526024; 405106, 4526050; 405080, 4526080; 405052, 4526090; 405025, 4526092; 404980, 4526093; 404959, 4526078; 404933, 4526069; 404893, 4526054; 404808, 4526027; 404749, 4525997; 404713, 4525944; 404708, 4525918; 404708, 4525833; 404693, 4525734; 404687, 4525710; 404638, 4525676; 404604, 4525665; 404572, 4525680; 404521, 4525702; 404451, 4525693; 404375, 4525672; 404356, 4525644; 404345, 4525631; 404288, 4525608; returning to 404222, 4525621.

(xi) From USGS 1:24,000 scale quadrangles Tyee City, Eureka, and Arcata South. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 403248, 4524430; 403254, 4524438; 403270, 4524435; 403311, 4524427; 403363, 4524406; 403440, 4524395; 403519, 4524392; 403550, 4524407; 403578, 4524414; 403649, 4524397; 403727, 4524374; 403760, 4524362; 403801, 4524371; 403818, 4524385; 403839, 4524397; 403868, 4524417; 403906, 4524432; 403937, 4524432; 404026, 4524424; 404037, 4524434; 404034, 4524448; 404014, 4524465; 404004, 4524475; 403985, 4524495; 403978, 4524505; 403957, 4524512; 403930, 4524520; 403899, 4524527; 403879, 4524535; 403857, 4524558; 403840, 4524573; 403801, 4524577; 403771, 4524569; 403751, 4524558; 403732, 4524534; 403712, 4524518; 403707, 4524513; 403674, 4524492; 403626, 4524490; 403588, 4524495; 403564, 4524514; 403549, 4524543; 403543, 4524563; 403554, 4524565; 403572, 4524537; 403590, 4524514; 403608, 4524509; 403643, 4524506; 403680, 4524512; 403707, 4524533; 403737, 4524561; 403751, 4524575; 403793, 4524591; 403829, 4524591; 403854, 4524581; 403875, 4524566; 403897, 4524545; 403923, 4524539; 403969, 4524525; 403996, 4524508; 404007, 4524492; 404020, 4524482; 404045, 4524470; 404057, 4524469; 404069, 4524482; 404089, 4524511; 404101, 4524542; 404100, 4524557; 404113, 4524580; 404138, 4524619; 404184, 4524650; 404217, 4524650; 404271, 4524642; 404311, 4524664; 404344, 4524685; 404367, 4524687; 404407, 4524678; 404459, 4524688; 404527, 4524713; 404546, 4524740; 404544, 4524779; 404518, 4524800; 404511, 4524828; 404516, 4524851; 404544, 4524873; 404586, 4524886; 404625, 4524873; 404667, 4524862; 404677, 4524870; 404677, 4524886; 404667, 4524918; 404670, 4524951; 404662, 4524970; 404604, 4525008; 404534, 4525037; 404513, 4525052; 404507, 4525060; 404504, 4525110; 404494, 4525124; 404466, 4525133; 404442, 4525147; 404373, 4525195; 404355, 4525211; 404332, 4525234; 404324, 4525265; 404319, 4525287; 404290, 4525327; 404263, 4525354; 404260, 4525385; 404268, 4525421; 404273, 4525461; 404268, 4525495; 404275, 4525525; 404294, 4525552; 404284, 4525597; 404298, 4525599; 404304, 4525589; 404306, 4525557; 404302, 4525537; 404288, 4525504; 404294, 4525476; 404287, 4525438; 404280, 4525390; 404280, 4525359;

404309, 4525331; 404339, 4525280; 404351, 4525244; 404372, 4525214; 404388, 4525205; 404419, 4525184; 404451, 4525160; 404493, 4525144; 404514, 4525134; 404523, 4525116; 404523, 4525094; 404527, 4525068; 404539, 4525059; 404563, 4525045; 404608, 4525031; 404659, 4525002; 404673, 4524991; 404684, 4524976; 404691, 4524948; 404691, 4524914; 404698, 4524892; 404704, 4524872; 404695, 4524849; 404680, 4524844; 404653, 4524845; 404615, 4524858; 404589, 4524863; 404575, 4524863; 404545, 4524849; 404537, 4524835; 404538, 4524823; 404553, 4524803; 404575, 4524782; 404575, 4524741; 404542, 4524694; 404488, 4524671; 404440, 4524659; 404393, 4524657; 404361, 4524661; 404343, 4524661; 404306, 4524635; 404266, 4524619; 404233, 4524626; 404187, 4524622; 404153, 4524602; 404137, 4524567; 404134, 4524524; 404114, 4524497; 404086, 4524451; 404086, 4524421; 404113, 4524410; 404159, 4524406; 404188, 4524404; 404239, 4524406; 404298, 4524397; 404339, 4524371; 404371, 4524338; 404389, 4524322; 404426, 4524306; 404455, 4524291; 404464, 4524291; 404479, 4524303; 404514, 4524330; 404558, 4524348; 404604, 4524344; 404646, 4524336; 404698, 4524337; 404746, 4524364; 404770, 4524375; 404805, 4524378; 404841, 4524369; 404875, 4524354; 404921, 4524354; 404955, 4524367; 404965, 4524382; 404963, 4524392; 404954, 4524399; 404942, 4524406; 404881, 4524439; 404862, 4524464; 404862, 4524510; 404865, 4524531; 404858, 4524550; 404839, 4524570; 404831, 4524598; 404832, 4524614; 404824, 4524618; 404808, 4524614; 404802, 4524627; 404818, 4524632; 404843, 4524629; 404857, 4524632; 404877, 4524655; 404901, 4524663; 404936, 4524664; 404945, 4524669; 404946, 4524688; 404959, 4524678; 404953, 4524659; 404933, 4524653; 404907, 4524655; 404893, 4524649; 404849, 4524610; 404850, 4524587; 404878, 4524551; 404884, 4524524; 404881, 4524471; 404890, 4524452; 404963, 4524418; 404979, 4524410; 404993, 4524403; 405008, 4524430; 405017, 4524454; 405013, 4524466; 404989, 4524509; 404968, 4524546; 404968, 4524575; 404980, 4524588; 404991, 4524577; 404986, 4524560; 404997, 4524535; 405014, 4524501; 405031, 4524481; 405041, 4524464; 405040, 4524442; 405058, 4524433; 405071, 4524428; 405084, 4524439; 405100, 4524465; 405115, 4524482; 405136, 4524488; 405152, 4524500; 405169, 4524525; 405190, 4524538; 405215, 4524544; 405230, 4524555; 405233, 4524571; 405238, 4524593; 405245, 4524597; 405267, 4524597; 405280, 4524594; 405296, 4524601; 405309, 4524598; 405319, 4524591; 405312, 4524570; 405310, 4524559; 405304, 4524560; 405303, 4524573; 405301, 4524584; 405293, 4524589; 405279, 4524584; 405254, 4524584; 405249, 4524577; 405246, 4524558; 405237, 4524542; 405222, 4524531; 405202, 4524526; 405188, 4524522; 405174, 4524505; 405155, 4524485; 405139, 4524477; 405121, 4524471; 405110, 4524463; 405110, 4524459; 405102, 4524434; 405081, 4524418; 405058, 4524415; 405034, 4524431; 405018, 4524421; 405006, 4524379; 404979, 4524358; 404969, 4524347; 404940, 4524331; 404886, 4524327; 404848, 4524340; 404827, 4524351; 404791, 4524355; 404768, 4524347; 404692, 4524306; 404645, 4524303; 404601, 4524310; 404558, 4524306; 404520, 4524289; 404495, 4524264; 404499, 4524247; 404511, 4524206; 404511, 4524183; 404506, 4524140; 404517, 4524107; 404537, 4524060; 404573, 4524020; 404604, 4524002; 404615, 4524013; 404645, 4524034; 404664, 4524042; 404687, 4524042; 404704, 4524034; 404712, 4524025; 404736, 4523999; 404735, 4523971; 404729, 4523945; 404723, 4523923; 404729, 4523910; 404746, 4523900; 404781, 4523899; 404815, 4523913; 404910, 4523952; 404993, 4523987; 405015, 4524006; 405013, 4524028; 405001, 4524048; 405000, 4524051; 404990, 4524069; 404993, 4524095; 405012, 4524110; 405042, 4524111; 405069, 4524120; 405087, 4524145; 405121, 4524173; 405160, 4524231; 405194, 4524272; 405211, 4524279; 405249, 4524290; 405304, 4524301; 405331, 4524318; 405340, 4524314; 405307, 4524285; 405281, 4524281; 405225, 4524264; 405198, 4524249; 405168, 4524199; 405142, 4524158; 405099, 4524129; 405082, 4524102; 405051, 4524090; 405026, 4524089; 405014, 4524078; 405015, 4524066; 405016, 4524060; 405017, 4524060; 405038, 4524045; 405041, 4523996; 405025, 4523983; 404984, 4523964; 404843, 4523902; 404795, 4523884; 404751, 4523877; 404718, 4523888; 404702, 4523910; 404699, 4523933; 404709, 4523955; 404714, 4523982; 404701, 4524000; 404684, 4524010; 404663, 4524010; 404638, 4524002; 404621, 4523976; 404634, 4523965; 404642, 4523948; 404642, 4523938; 404631, 4523913; 404618, 4523881; 404617, 4523851; 404624, 4523820; 404646, 4523781; 404680, 4523746; 404669, 4523736; 404650, 4523746; 404614, 4523799; 404600, 4523847; 404603, 4523886; 404622, 4523951; 404596, 4523978; 404541, 4524025; 404518, 4524070; 404496, 4524114; 404492, 4524150; 404495, 4524199; 404490, 4524232; 404431, 4524286; 404361, 4524319; 404347, 4524336; 404306, 4524369; 404273, 4524378; 404215, 4524383; 404087, 4524388; 403988, 4524403; 403896, 4524407; 403867, 4524388; 403825, 4524351; 403773, 4524341; 403722, 4524350; 403647, 4524375; 403575, 4524386; 403543, 4524375; 403495, 4524367; 403447, 4524371; 403378, 4524372; 403334, 4524386; 403266, 4524414; returning to 403248, 4524430.

(xii) From USGS 1:24,000 scale quadrangles Tyee City and Eureka. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 403498, 4525062; 403498, 4525079; 403514, 4525102; 403531, 4525112; 403552, 4525117; 403569, 4525115; 403688, 4525069; 403706, 4525077; 403704, 4525089; 403602, 4525135; 403597, 4525155; 403612, 4525163; 403633, 4525198; 403653, 4525213; 403683, 4525229; 403701, 4525262; 403704, 4525297; 403693, 4525338; 403698, 4525363; 403780, 4525436; 403881, 4525538; 403921, 4525619; 403929, 4525657; 403982, 4525672; 404020, 4525647; 404101, 4525626; 404167, 4525609; 404147, 4525593; 404127, 4525586; 404127, 4525571; 404137, 4525558; 404152, 4525530; 404144, 4525495; 404124, 4525469; 404091, 4525452; 404045, 4525462; 403992, 4525474; 403962, 4525474; 403926, 4525467; 403891, 4525444; 403777, 4525310; 403772, 4525279; 403782, 4525241; 403792, 4525201; 403800, 4525178; 403790, 4525125; 403780, 4525089; 403749, 4525056; 403714, 4525034; 403681, 4525034; 403567, 4525072; 403544, 4525072; 403536, 4525056; 403514, 4525041; returning to 403498, 4525062.

(xiii) From USGS 1:24,000 scale quadrangle Eureka. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 403167, 4524519; 403174, 4524547; 403189, 4524560; 403207, 4524568; 403265, 4524580; 403301, 4524595; 403334, 4524631; 403357, 4524692; 403362, 4524742; 403341, 4524811; 403336, 4524899; 403357, 4524993; 403367, 4525029; 403402, 4525079; 403407, 4525059; 403415, 4525034; 403427, 4525011; 403453, 4525001; 403476, 4524996; 403486, 4525021; 403498, 4525031; 403519, 4525029; 403529, 4525013; 403521, 4524988; 403503,

4524960; 403473, 4524950; 403445, 4524955; 403420, 4524968; 403389, 4524988; 403379, 4524958; 403369, 4524917; 403362, 4524861; 403367, 4524841; 403405, 4524839; 403430, 4524846; 403458, 4524882; 403493, 4524920; 403544, 4524935; 403584, 4524917; 403600, 4524872; 403572, 4524826; 403521, 4524798; 403511, 4524818; 403559, 4524851; 403572, 4524874; 403564, 4524899; 403552, 4524912; 403526, 4524904; 403508, 4524889; 403478, 4524869; 403453, 4524826; 403430, 4524816; 403402, 4524808; 403369, 4524811; 403377, 4524783; 403384, 4524735; 403382, 4524689; 403367, 4524644; 403336, 4524590; 403306, 4524565; 403275, 4524557; 403222, 4524545; 403197, 4524527; 403192, 4524509; 403197, 4524484; 403174, 4524487; returning to 403167, 4524519.

(xiv) From USGS 1:24,000 scale quadrangle Arcata South. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 405091, 4523686; 405091, 4523709; 405111, 4523708; 405126, 4523698; 405147, 4523680; 405150, 4523697; 405144, 4523708; 405138, 4523722; 405133, 4523735; 405133, 4523753; 405151, 4523772; 405181, 4523791; 405207, 4523807; 405232, 4523807; 405254, 4523814; 405263, 4523828; 405260, 4523853; 405253, 4523885; 405241, 4523894; 405226, 4523911; 405217, 4523931; 405217, 4523961; 405219, 4523992; 405220, 4524014; 405220, 4524028; 405234, 4524029; 405235, 4524000; 405239, 4523951; 405241, 4523926; 405260, 4523906; 405272, 4523886; 405281, 4523851; 405285, 4523831; 405276, 4523807; 405256, 4523791; 405231, 4523782; 405209, 4523780; 405164, 4523755; 405160, 4523735; 405167, 4523716; 405173, 4523691; 405163, 4523666; 405195, 4523635; 405207, 4523605; 405232, 4523526; 405242, 4523483; 405253, 4523471; 405273, 4523471; 405276, 4523486; 405276, 4523510; 405287, 4523533; 405294, 4523563; 405295, 4523580; 405301, 4523597; 405320, 4523610; 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(xv) From USGS 1:24,000 scale quadrangle Arcata South. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 407456, 4523277; 407456, 4523282; 407462, 4523297; 407483, 4523331; 407472, 4523341; 407469, 4523345; 407465, 4523351; 407463, 4523357; 407468, 4523361; 407475, 4523359; 407480, 4523354; 407484, 4523357; 407515, 4523395; 407526, 4523407; 407540, 4523413; 407563, 4523419; 407577, 4523412; 407587, 4523403; 407599, 4523398; 407614, 4523398; 407624, 4523392; 407636, 4523390; 407643, 4523387; 407658, 4523381; 407669, 4523375; 407677, 4523367; 407686, 4523368; 407702, 4523369; 407724, 4523369; 407740, 4523370; 407751, 4523369; 407765, 4523368; 407777, 4523364; 407790, 4523358; 407797, 4523348; 407796, 4523343; 407791, 4523337; 407802, 4523332; 407810, 4523339; 407820, 4523340; 407832, 4523337; 407838, 4523331; 407844, 4523326; 407848, 4523326; 407858, 4523326; 407873, 4523320; 407927, 4523299; 407971, 4523284; 407973, 4523278; 407971, 4523270; 407954, 4523252; 407927, 4523223; 407879, 4523151; 407856, 4523115; 407830, 4523105; 407808, 4523105; 407776, 4523107; 407756, 4523116; 407754, 4523121; 407746, 4523126; 407736, 4523125; 407641, 4523175; 407640, 4523181; 407629, 4523190; 407609, 4523202; 407602, 4523203; 407591, 4523200; 407582, 4523201; 407509, 4523240; 407479, 4523254; 407465, 4523269; returning to 407456, 4523277.

(xvi) From USGS 1:24,000 scale quadrangle Arcata South. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 408209, 4523323; 408215, 4523326; 408243, 4523285; 408271, 4523261; 408326, 4523212; 408327, 4523400; 408335, 4523400; 408335, 4523243; 408349, 4523245; 408359, 4523246; 408363, 4523249; 408367,

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(xvii) From USGS 1:24,000 scale quadrangle Arcata South. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 408660, 4523204; 408667, 4523217; 408668, 4523242; 408674, 4523231; 408673, 4523202; 408676, 4523194; 408689, 4523183; 408689, 4523172; 408682, 4523153; 408675, 4523137; 408676, 4523121; 408681, 4523107; 408687, 4523095; 408694, 4523080; 408694, 4523067; 408701, 4523051; 408713, 4523039; 408728, 4523031; 408712, 4523031; 408685, 4523046; 408676, 4523063; 408681, 4523085; 408671, 4523106; 408664, 4523140; 408674, 4523161; 408674, 4523180; 408662, 4523195; returning to 408660, 4523204.

(xviii) From USGS 1:24,000 scale quadrangle Arcata South. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 408793, 4522282; 408793, 4522296; 408825, 4522296; 408833, 4522299; 408837, 4522310; 408836, 4522332; 408837, 4522391; 408835, 4522418; 408840, 4522429; 408844, 4522442; 408852, 4522450; 408863, 4522457; 408866, 4522470; 408865, 4522485; 408865, 4522489; 408856, 4522499; 408848, 4522510; 408848, 4522523; 408844, 4522556; 408840, 4522588; 408833, 4522611; 408835, 4522635; 408833, 4522645; 408834, 4522681; 408842, 4522682; 408844, 4522664; 408849, 4522639; 408875, 4522638; 408897, 4522641; 408914, 4522643; 408919, 4522662; 408924, 4522681; 408935, 4522701; 408951, 4522718; 408950, 4522738; 408940, 4522755; 408926, 4522768; 408912, 4522791; 408910, 4522816; 408912, 4522838; 408923, 4522862; 408938, 4522878; 408950, 4522895; 408967, 4522927; 408965, 4522951; 408965, 4522982; 408968, 4522998; 408979, 4523015; 408980, 4523030; 408969, 4523034; 408948, 4523039; 408931, 4523045; 408918, 4523056; 408911, 4523066; 408911, 4523088; 408918, 4523111; 408918, 4523134; 408916, 4523154; 408922, 4523173; 408933, 4523186; 408942, 4523195; 408947, 4523213; 408939, 4523225; 408935, 4523238; 408933, 4523254; 408936, 4523273; 408946, 4523297; 408946, 4523315; 408948, 4523329; 408963, 4523352; 408962, 4523356; 408949, 4523354; 408920, 4523357; 408907, 4523372; 408907, 4523396; 408918, 4523417; 408923, 4523428; 408919, 4523434; 408905, 4523431; 408886, 4523431; 408866, 4523447; 408862, 4523480; 408865, 4523500; 408862, 4523514; 408859, 4523536; 408867, 4523548; 408872, 4523517; 408876, 4523505; 408877, 4523483; 408877, 4523453; 408895, 4523446; 408921, 4523451; 408941, 4523444; 408948, 4523432; 408943, 4523418; 408933, 4523396; 408926, 4523383; 408931, 4523375; 408950, 4523375; 408960, 4523378; 408976, 4523375; 408988, 4523365; 408988, 4523353; 408984, 4523343; 408973, 4523331; 408965, 4523310; 408960, 4523286; 408956, 4523255; 408955, 4523244; 408959, 4523233; 408966, 4523221; 408967, 4523207; 408965, 4523192; 408959, 4523182; 408950, 4523172; 408941, 4523161; 408938, 4523147; 408938, 4523133; 408939, 4523118; 408936, 4523097; 408938, 4523075; 408945, 4523064; 408966, 4523064; 408988, 4523062; 409003, 4523050; 409010, 4523037; 409011, 4523020; 409002, 4523004; 408992, 4522992; 408988, 4522978; 408987, 4522960; 408991, 4522950; 409012, 4522962; 409018, 4522973; 409015, 4522988; 409016, 4523007; 409029, 4523016; 409037, 4523024; 409046, 4523024; 409053, 4523037; 409051, 4523054; 409043, 4523075; 409030, 4523083; 409013, 4523089; 409002, 4523098; 408994, 4523110; 408992, 4523125; 408998, 4523139; 409021, 4523155; 409041, 4523166; 409043, 4523178; 409034, 4523189; 409035, 4523198; 409043, 4523198; 409049, 4523191; 409056, 4523176; 409049, 4523158; 409035, 4523147; 409018, 4523138; 409007, 4523124; 409007, 4523115; 409020, 4523101; 409031, 4523096; 409047, 4523088; 409057, 4523072; 409067, 4523046; 409064, 4523034; 409094, 4523071; 409208, 4523215; 409257, 4523257; 409260, 4523264; 409271, 4523270; 409272, 4523284; 409272, 4523312; 409284, 4523305; 409284, 4523266; 409277, 4523258; 409269, 4523250; 409216, 4523202; 409191,

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(xix) From USGS 1:24,000 scale quadrangle Arcata South. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 408827, 4521822; 408829, 4521942; 408843, 4521954; 408843, 4521975; 408843, 4522009; 408845, 4522060; 408845, 4522106; 408851, 4522108; 408854, 4522062; 408853, 4522015; 408853, 4521970; 408853, 4521951; 408872, 4521939; 408924, 4521913; 408962, 4521881; 409011, 4521849; 409066, 4521844; 409121, 4521841; 409164, 4521843; 409207, 4521848; 409259, 4521862; 409305, 4521866; 409322, 4521839; 409379, 4521833; 409431, 4521840; 409461, 4521827; 409545, 4521805; 409543, 4521570; 409520, 4521641; 409490, 4521729; 409460, 4521729; 409406, 4521743; 409376, 4521785; 409317, 4521785; 409291, 4521799; 409279, 4521824; 409249, 4521818; 409223, 4521781; 409178, 4521760; 409135, 4521759; 409101, 4521756; 409063, 4521752; 409020, 4521786; 408982, 4521820; 408911, 4521823; 408880, 4521831; returning to 408827, 4521822.

(xx) From USGS 1:24,000 scale quadrangle Arcata South. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 408824, 4521590; 408824, 4521640; 408825, 4521658; 408832, 4521672; 408843, 4521692; 408856, 4521723; 408874, 4521738; 408899, 4521738; 408914, 4521726; 408927, 4521705; 408940, 4521678; 408949, 4521649; 408959, 4521631; 408969, 4521621; 408982, 4521615; 409005, 4521615; 409027, 4521604; 409016,

4521599; 408839, 4521613; 408835, 4521597; returning to 408824, 4521590.

(xxi) From USGS 1:24,000 scale quadrangle Arcata South. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 405365, 4517762; 405372, 4517778; 405520, 4517852; 405888, 4518096; 406038, 4518193; 406162, 4518274; 406251, 4518332; 406342, 4518391; 406487, 4518485; 406790, 4518682; 406988, 4518812; 407152, 4518919; 407287, 4519007; 407490, 4519140; 407589, 4519191; 407724, 4519261; 407788, 4519302; 407816, 4519302; 407839, 4519293; 407861, 4519261; 407859, 4519254; 407846, 4519259; 407820, 4519286; 407805, 4519292; 407786, 4519287; 407728, 4519246; 407596, 4519179; 407526, 4519144; 407446, 4519099; 407284, 4518991; 407182, 4518928; 407085, 4518861; 406976, 4518791; 406930, 4518760; 406804, 4518673; 406819, 4518664; 406839, 4518649; 406862, 4518632; 406882, 4518617; 406906, 4518595; 406933, 4518577; 406955, 4518580; 406974, 4518587; 406998, 4518591; 407032, 4518590; 407062, 4518581; 407073, 4518570; 407089, 4518568; 407115, 4518574; 407140, 4518584; 407153, 4518587; 407162, 4518582; 407176, 4518568; 407193, 4518534; 407204, 4518516; 407223, 4518499; 407243, 4518482; 407263, 4518464; 407273, 4518444; 407298, 4518423; 407312, 4518402; 407317, 4518372; 407325, 4518329; 407331, 4518317; 407336, 4518304; 407343, 4518293; 407357, 4518273; 407374, 4518266; 407404, 4518252; 407421, 4518239; 407439, 4518209; 407447, 4518186; 407447, 4518177; 407434, 4518179; 407422, 4518204; 407407, 4518230; 407387, 4518243; 407364, 4518250; 407347, 4518259; 407331, 4518280; 407318, 4518308; 407315, 4518325; 407315, 4518326; 407307, 4518361; 407297, 4518405; 407291, 4518416; 407271, 4518434; 407255, 4518457; 407235, 4518479; 407206, 4518502; 407190, 4518516; 407173, 4518546; 407166, 4518563; 407160, 4518572; 407152, 4518574; 407139, 4518574; 407123, 4518566; 407097, 4518558; 407077, 4518556; 407055, 4518566; 407043, 4518576; 407033, 4518579; 407022, 4518580; 407005, 4518577; 406979, 4518570; 406961, 4518559; 406935, 4518554; 406950, 4518530; 406956, 4518505; 406957, 4518488; 406951, 4518476; 406942, 4518448; 406939, 4518411; 406948, 4518390; 406974, 4518363; 406995, 4518331; 407002, 4518333; 407012, 4518348; 407019, 4518360; 407027, 4518365; 407023, 4518349; 407011, 4518328; 406997, 4518319; 406997, 4518309; 407009, 4518286; 407032, 4518269; 407065, 4518260; 407085, 4518248; 407099, 4518223; 407127, 4518197; 407148, 4518183; 407172, 4518173; 407199, 4518158; 407213, 4518150; 407224, 4518129; 407224, 4518109; 407218, 4518079; 407217, 4518055; 407231, 4518032; 407240, 4518018; 407253, 4518005; 407275, 4517983; 407289, 4517972; 407303, 4517953; 407309, 4517939; 407303, 4517939; 407287, 4517957; 407276, 4517974; 407257, 4517984; 407239, 4518003; 407223, 4518026; 407217, 4518032; 407209, 4518051; 407204, 4518076; 407210, 4518108; 407208, 4518134; 407194, 4518150; 407170, 4518165; 407143, 4518173; 407105, 4518198; 407085, 4518223; 407063, 4518244; 407040, 4518255; 407009, 4518263; 406994, 4518277; 406980, 4518307; 406966, 4518336; 406937, 4518373; 406921, 4518398; 406917, 4518433; 406922, 4518459; 406920, 4518497; 406912, 4518536; 406879, 4518572; 406841, 4518609; 406786, 4518639; 406773, 4518656; 406729, 4518626; 406710, 4518614; 406679, 4518595; 406634, 4518565; 406634, 4518555; 406633, 4518533; 406630, 4518504; 406617, 4518472; 406612, 4518442; 406611, 4518423; 406632, 4518403; 406660, 4518394; 406673, 4518388; 406678, 4518380; 406661, 4518378; 406632, 4518388; 406599, 4518414; 406604, 4518442; 406606, 4518480; 406617, 4518524; 406622, 4518549; 406622, 4518560; 406568, 4518527; 406391, 4518410; 406184, 4518272; 406069, 4518197; 406045, 4518180; 405987, 4518146; 405924, 4518102; 405894, 4518085; 405652, 4517922; 405530, 4517839; 405381, 4517766; 405379, 4517746; 405385, 4517689; 405476, 4517633; 405482, 4517619; 405462, 4517594; 405463, 4517627; 405374, 4517679; 405370, 4517729; returning to 405365, 4517762.

(xxii) From USGS 1:24,000 scale quadrangle Arcata South. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 406574, 4517557; 406583, 4517571; 406601, 4517590; 406623, 4517598; 406653, 4517604; 406676, 4517602; 406693, 4517598; 406706, 4517594; 406715, 4517590; 406735, 4517588; 406757, 4517604; 406755, 4517624; 406734, 4517661; 406722, 4517698; 406731, 4517723; 406751, 4517753; 406765, 4517773; 406786, 4517793; 406795, 4517794; 406800, 4517782; 406800, 4517768; 406790, 4517749; 406796, 4517748; 406807, 4517765; 406825, 4517775; 406843, 4517776; 406861, 4517775; 406875, 4517775; 406897, 4517765; 406883, 4517749; 406888, 4517737; 406909, 4517734; 406932, 4517733; 406941, 4517726; 406917, 4517719; 406891, 4517714; 406873, 4517728; 406852, 4517739; 406845, 4517716; 406861, 4517718; 406875, 4517717; 406872, 4517707; 406862, 4517704; 406851, 4517693; 406862, 4517689; 406883, 4517678; 406901, 4517666; 406909, 4517655; 406926, 4517654; 406946, 4517644; 406960, 4517629; 406974, 4517625; 406986, 4517617; 406983, 4517601; 406991, 4517593; 406994, 4517571; 406994, 4517555; 407006, 4517562; 407007, 4517579; 407019, 4517593; 407044, 4517603; 407049, 4517596; 407040, 4517581; 407040, 4517568; 407041, 4517549; 407040, 4517530; 407028, 4517525; 407029, 4517498; 407014, 4517484; 407018, 4517468; 407008, 4517462; 407007, 4517444; 407007, 4517432; 407013, 4517414; 407011, 4517402; 407013, 4517396; 407030, 4517396; 407052, 4517392; 407062, 4517389; 407067, 4517377; 407067, 4517361; 407060, 4517343; 407035, 4517339; 407012, 4517338; 406986, 4517338; 406971, 4517344; 406959, 4517357; 406962, 4517371; 406972, 4517383; 406978, 4517403; 406978, 4517424; 406978, 4517444; 406978, 4517462; 406983, 4517469; 406980, 4517483; 406966, 4517494; 406949, 4517493; 406932, 4517500; 406924, 4517505; 406910, 4517499; 406889, 4517499; 406867, 4517515; 406848, 4517523; 406840, 4517512; 406825, 4517501; 406811, 4517518; 406810, 4517539; 406795, 4517555; 406784, 4517551; 406763, 4517556; 406752, 4517556; 406765, 4517517; 406783, 4517446; 406794, 4517410; 406817, 4517384; 406896, 4517344; 406983, 4517309; 407020, 4517310; 407049, 4517333; 407053, 4517329; 407051, 4517319; 407025, 4517299; 407010, 4517295; 406988, 4517297; 406944, 4517309; 406861, 4517348; 406820, 4517367; 406799, 4517382; 406785, 4517400; 406775, 4517428; 406763, 4517475; 406755, 4517511; 406735, 4517560; 406708, 4517585; 406683, 4517591; 406652, 4517593; 406614, 4517582; 406591, 4517558; 406581, 4517551; returning to 406574, 4517557.

(xxiii) From USGS 1:24,000 scale quadrangle Arcata South. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 406455, 4517395; 406458, 4517402; 406470,

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(xxiv) From USGS 1:24,000 scale quadrangle Arcata South. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 406478, 4517065; 406493, 4517065; 406523, 4517064; 406555, 4517073; 406576, 4517093; 406592, 4517123; 406597, 4517143; 406596, 4517164; 406584, 4517198; 406558, 4517223; 406546, 4517240; 406543, 4517267; 406549, 4517293; 406562, 4517308; 406581, 4517318; 406595, 4517335; 406612, 4517374; 406622, 4517410; 406625, 4517451; 406627, 4517498; 406638, 4517514; 406652, 4517518; 406669, 4517502; 406684, 4517464; 406699, 4517394; 406709, 4517355; 406741, 4517320; 406802, 4517291; 406869, 4517272; 406912, 4517261; 406937, 4517250; 406978, 4517233; 407002, 4517232; 407048, 4517243; 407079, 4517253; 407111, 4517276; 407135, 4517306; 407151, 4517349; 407154, 4517391; 407154, 4517429; 407155, 4517456; 407176, 4517471; 407205, 4517471; 407229, 4517460; 407260, 4517439; 407279, 4517399; 407288, 4517331; 407300, 4517248; 407313, 4517232; 407335, 4517233; 407360, 4517241; 407377, 4517245; 407389, 4517249; 407391, 4517242; 407370, 4517231; 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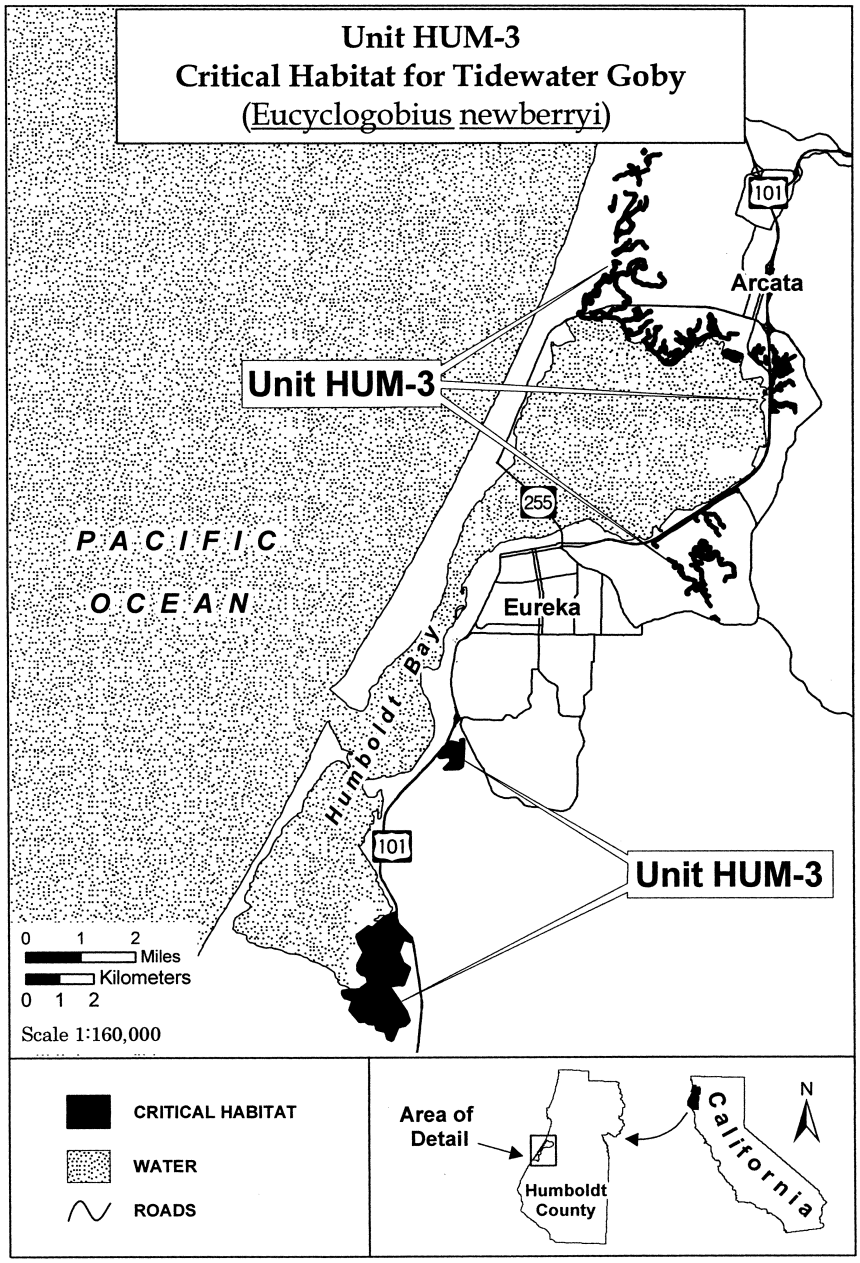
(xxv) From USGS 1:24,000 scale quadrangle Arcata South. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 405813, 4517245; 405816, 4517250; 405826, 4517237; 405837, 4517224; 405928, 4517186; 405951, 4517171; 405959, 4517164; 405976, 4517143; 406004, 4517145; 406019, 4517149; 406019, 4517135; 406010, 4517105; 406005, 4517086; 405999, 4517070; 405992, 4517046; 405992, 4517030; 406004, 4517019; 406022, 4517018; 406045, 4517021; 406064, 4517034; 406084, 4517044; 406114, 4517049; 406132, 4517051; 406145, 4517046; 406162, 4517035; 406188, 4517013; 406198, 4516996; 406210, 4516994; 406211, 4516980; 406203, 4516973; 406200, 4516934; 406203, 4516879; 406201, 4516860; 406223, 4516835; 406234, 4516805; 406230, 4516793; 406248, 4516768; 406282, 4516711; 406319, 4516696; 406408, 4516682; 406449, 4516663; 406518, 4516641; 406574, 4516627; 406599, 4516602; 406609, 4516562; 406591, 4516501; 406570, 4516455; 406459, 4516384; 406401, 4516334; 406356, 4516286; 406348, 4516251; 406353, 4516233; 406403, 4516214; 406401, 4516206; 406350, 4516216; 406339, 4516232; 406334, 4516249; 406335, 4516276; 406345, 4516297; 406359, 4516315; 406398, 4516354; 406447, 4516400; 406522, 4516450; 406553, 4516470; 406586, 4516555; 406587, 4516581; 406574, 4516603; 406538, 4516619; 406437, 4516647; 406397, 4516665; 406322, 4516677; 406282, 4516687; 406257, 4516711; 406225, 4516768; 406216, 4516782; 406211, 4516778; 406202, 4516774; 406193, 4516776; 406191, 4516782; 406193, 4516790; 406178, 4516812; 406168, 4516825; 406164, 4516834; 406144, 4516876; 406139, 4516879; 406132, 4516879; 406130, 4516884; 406134, 4516888; 406137, 4516893; 406134, 4516914; 406134, 4516927; 406142, 4516972; 406142, 4516990; 406137, 4516996; 406131, 4516991; 406124, 4516995; 406126, 4517003; 406116, 4517012; 406099, 4517013; 406084, 4517013; 406074, 4517010; 406067, 4516999; 406050, 4516988; 406034, 4516986; 406012, 4516985; 405990, 4516991; 405979, 4517003; 405968, 4517017; 405966, 4517031; 405972, 4517062; 405979, 4517082; 405979, 4517087; 405986, 4517107; 405986, 4517131; 405977, 4517133; 405969, 4517139; 405949, 4517164; 405921, 4517183; 405885, 4517194; 405834, 4517218; 405824, 4517227; returning to 405813, 4517245.

(xxvi) From USGS 1:24,000 scale quadrangle Arcata South. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 407085, 4515505; 407087, 4515512; 407130, 4515530; 407145, 4515540; 407173, 4515552; 407184, 4515539; 407203, 4515520; 407223, 4515509; 407236, 4515491; 407238, 4515481; 407244, 4515471; 407268, 4515463; 407278, 4515449; 407282, 4515436; 407272, 4515442; 407265, 4515454; 407245, 4515461; 407231, 4515476; 407226, 4515491; 407211, 4515506; 407190, 4515513; 407169, 4515516; 407155, 4515518; 407152, 4515510; 407139, 4515507; 407127, 4515502; 407113, 4515499; 407106, 4515498; 407099, 4515496; 407097, 4515490; 407098, 4515483; 407094, 4515481; 407088, 4515485; 407088, 4515490; 407088, 4515498; returning to 407085, 4515505.

(xxvii) From USGS 1:24,000 scale quadrangles Eureka and Fields Landing. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 399065, 4511443; 399073, 4511482; 399088, 4511516; 399110, 4511539; 399153, 4511567; 399203, 4511583; 399264, 4511622; 399286, 4511651; 399296, 4511673; 399356, 4511801; 399406, 4511839; 399422, 4511844; 399444, 4511846; 399672, 4511791; 399693, 4511796; 399721, 4511806; 399736, 4511816; 399738, 4511835; 399733, 4511864; 399717, 4511910; 399781, 4511918; 399776, 4511662; 399738, 4511155; 399643, 4511079; 399235, 4511068; 399406, 4511265; 399422, 4511318; 399429, 4511358; 399388, 4511425; 399364, 4511436; 399325, 4511440; 399315, 4511444; 399149, 4511407; 399109, 4511407; 399080, 4511422; returning to 399065, 4511443.

(xxviii) From USGS 1:24,000 scale quadrangle Fields Landing. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 396204, 4504399; 396220, 4504485; 396333, 4504495; 396700, 4504525; 396964, 4504736; 396961, 4504902; 396868, 4504978; 396753, 4505018; 396680, 4505107; 396673, 4505269; 396855, 4505633; 396706, 4505904; 396637, 4506093; 396657, 4506149; 396973, 4506376; 397092, 4506339; 397457, 4506666; 397761, 4506800; 397765, 4506657; 397817, 4506487; 397978, 4506317; 398219, 4506049; 398235, 4505961; 398020, 4506037; 397955, 4505986; 397823, 4505633; 397955, 4505312; 398163, 4505180; 397980, 4504676; 397910, 4504693; 397854, 4504693; 397547, 4504641; 398043, 4503896; 398135, 4503602; 398020, 4503486; 397810, 4503449; 397646, 4503052; 397527, 4503096; 397464, 4503316; 397212, 4503386; 397193, 4503531; 396973, 4503537; 396872, 4503619; 396708, 4503606; 396425, 4503934; 396513, 4504185; 396488, 4504244; 396369, 4504280; 396266, 4504313; returning to 396204, 4504399.

(xxix) *Note:* Map of Unit HUM–3 follows.



(10) Unit HUM–4; Humboldt County, California.

(i) From USGS 1:24,000 scale quadrangles, Cannibal Island. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 393052, 4504207; 393102, 4504275; 393146, 4504303; 393119, 4504226; 393143, 4504186; 393184, 4504123; 393203, 4504065; 393203, 4504037; 393158,

4503967; 393129, 4503919; 393122, 4503876; 393131, 4503835; 393167, 4503811; 393283, 4503811; 393324, 4503806; 393374, 4503784; 393408, 4503743; 393412, 4503698; 393412, 4503618; 393412, 4503570; 393441, 4503549; 393583, 4503585; 393593, 4503570; 393403, 4503501; 393396, 4503534; 393374, 4503575; 393369, 4503628; 393372, 4503678; 393360, 4503719; 393324, 4503755; 393290, 4503772; 393158, 4503767; 393117, 4503765; 393081, 4503782; 393062, 4503823; 393054, 4503864; 393062, 4503909; 393090, 4503967; 393136, 4504008; 393167, 4504058; 393090, 4504198; 393074, 4504198; returning to 393052, 4504207.

(ii) From USGS 1:24,000 scale quadrangles, Cannibal Island. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 392678, 4504120; 392705, 4504134; 392705, 4504156; 392716, 4504160; 392724, 4504145; 392751, 4504139; 392780, 4504123; 392788, 4504107; 392780, 4504083; 392770, 4504058; 392772, 4504035; 392799, 4503999; 392824, 4503999; 392850, 4504003; 392874, 4504002; 392882, 4503994; 392885, 4503976; 392874, 4503937; 392859, 4503937; 392867, 4503967; 392859, 4503981; 392839, 4503978; 392797, 4503978; 392767, 4503994; 392749, 4504026; 392743, 4504048; 392746, 4504067; 392759, 4504091; 392761, 4504105; 392727, 4504120; 392714, 4504107; 392684, 4504099; returning to 392678, 4504120.

(iii) From USGS 1:24,000 scale quadrangles, Cannibal Island. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 392357, 4503825; 392357, 4503890; 392427, 4503892; 392410, 4503830; 392408, 4503789; 392432, 4503765; 392470, 4503770; 392492, 4503799; 392504, 4503842; 392526, 4503890; 392562, 4503919; 392603, 4503933; 392631, 4503928; 392720, 4503892; 392773, 4503890; 392819, 4503885; 392845, 4503871; 392869, 4503844; 392879, 4503806; 392874, 4503765; 392860, 4503715; 392862, 4503691; 392869, 4503664; 392884, 4503654; 392908, 4503645; 392949, 4503659; 392982, 4503676; 393030, 4503683; 393066, 4503674; 393102, 4503654; 393126, 4503621; 393131, 4503582; 393117, 4503532; 393098, 4503498; 393090, 4503469; 393090, 4503433; 393074, 4503407; 393030, 4503359; 393002, 4503368; 392970, 4503361; 392893, 4503479; 392824, 4503481; 392790, 4503469; 392761, 4503462; 392742, 4503424; 392768, 4503390; 392773, 4503373; 392773, 4503277; 392716, 4503140; 392696, 4503143; 392696, 4503152; 392752, 4503275; 392756, 4503306; 392747, 4503373; 392723, 4503414; 392737, 4503465; 392752, 4503484; 392792, 4503496; 392807, 4503513; 392913, 4503486; 392934, 4503457; 392961, 4503419; 392999, 4503402; 393045, 4503414; 393054, 4503450; 393069, 4503501; 393093, 4503556; 393088, 4503594; 393062, 4503626; 393011, 4503635; 392937, 4503614; 392869, 4503597; 392824, 4503640; 392809, 4503681; 392824, 4503734; 392833, 4503789; 392814, 4503823; 392788, 4503849; 392728, 4503859; 392636, 4503876; 392588, 4503876; 392562, 4503847; 392528, 4503779; 392497, 4503734; 392451, 4503722; 392410, 4503727; 392381, 4503743; 392360, 4503775; returning to 392357, 4503825.

(iv) From USGS 1:24,000 scale quadrangles, Cannibal Island. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 391919, 4503618; 391946, 4503641; 391966, 4503662; 391975, 4503643; 391991, 4503633; 392018, 4503619; 392046, 4503599; 392061, 4503604; 392084, 4503608; 392108, 4503598; 392129, 4503596; 392146, 4503583; 392175, 4503547; 392209, 4503507; 392263, 4503444; 392272, 4503416; 392267, 4503402; 392246, 4503386; 392224, 4503371; 392207, 4503350; 392213, 4503321; 392224, 4503286; 392232, 4503240; 392232, 4503208; 392243, 4503184; 392252, 4503171; 392271, 4503171; 392296, 4503177; 392314, 4503191; 392331, 4503204; 392355, 4503207; 392381, 4503201; 392404, 4503193; 392432, 4503184; 392448, 4503173; 392467, 4503152; 392467, 4503138; 392453, 4503144; 392434, 4503165; 392408, 4503175; 392380, 4503185; 392361, 4503193; 392346, 4503193; 392331, 4503184; 392306, 4503162; 392278, 4503153; 392243, 4503154; 392231, 4503171; 392212, 4503205; 392209, 4503255; 392188, 4503311; 392185, 4503342; 392189, 4503363; 392227, 4503398; 392246, 4503412; 392244, 4503432; 392134, 4503560; 392112, 4503567; 392082, 4503584; 392042, 4503575; 392023, 4503584; 391962, 4503625; 391942, 4503619; 391920, 4503608; returning to 391919, 4503618.

(v) From USGS 1:24,000 scale quadrangles, Cannibal Island. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 391651, 4503288; 391674, 4503278; 391699, 4503243; 391720, 4503213; 391720, 4503176; 391720, 4503121; 391768, 4503087; 391773, 4503064; 391763, 4503029; 391780, 4502984; 391830, 4502950; 391850, 4502901; 391879, 4502858; 391909, 4502870; 391954, 4502856; 391976, 4502860; 391981, 4502893; 391991, 4502922; 392026, 4502928; 392053, 4502927; 392071, 4502901; 392071, 4502868; 392080, 4502840; 392105, 4502829; 392121, 4502843; 392141, 4502885; 392130, 4502901; 392106, 4502901; 392071, 4502918; 392051, 4502942; 392036, 4502980; 392036, 4503020; 392049, 4503032; 392059, 4503015; 392058, 4502987; 392069, 4502953; 392100, 4502925; 392133, 4502920; 392155, 4502918; 392168, 4502890; 392150, 4502846; 392118, 4502803; 392074, 4502803; 392044, 4502835; 392041, 4502873; 392039, 4502896; 392019, 4502895; 392006, 4502870; 391991, 4502821; 391961, 4502821; 391924, 4502835; 391885, 4502829; 391848, 4502828; 391803, 4502920; 391788, 4502933; 391746, 4502963; 391726, 4503019; 391730, 4503061; 391701, 4503084; 391676, 4503121; 391684, 4503169; 391683, 4503211; 391654, 4503240; returning to 391651, 4503288.

(vi) From USGS 1:24,000 scale quadrangles, Cannibal Island. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 392724, 4502551; 392748, 4502590; 392799, 4502607; 392846, 4502615; 392877, 4502593; 392901, 4502547; 392935, 4502527; 392974, 4502527; 393001, 4502544; 393003, 4502602; 393028, 4502675; 393064, 4502717; 393118, 4502770; 393193, 4502821; 393242, 4502836; 393356, 4502865; 393407, 4502855; 393448, 4502814; 393436, 4502794; 393404, 4502804; 393392, 4502826; 393365, 4502838; 393273, 4502821; 393178, 4502780; 393127, 4502760; 393096, 4502704; 393052, 4502668; 393028, 4502576; 393025, 4502530; 393016, 4502515; 392955, 4502498; 392921, 4502510; 392884, 4502527; 392836, 4502593; 392807, 4502588; 392768, 4502571; 392756, 4502544; 392758, 4502508; 392768, 4502474; 392787, 4502440; 392826, 4502411; 392914, 4502386; 392940, 4502372; 392955, 4502338; 392955, 4502306; 392943, 4502253; 392909, 4502192; 392877, 4502136; 392860, 4502085; 392880, 4502051; 392875, 4502015; 392790, 4502019; 392785, 4502053; 392826, 4502078; 392853, 4502160; 392880, 4502202; 392916,

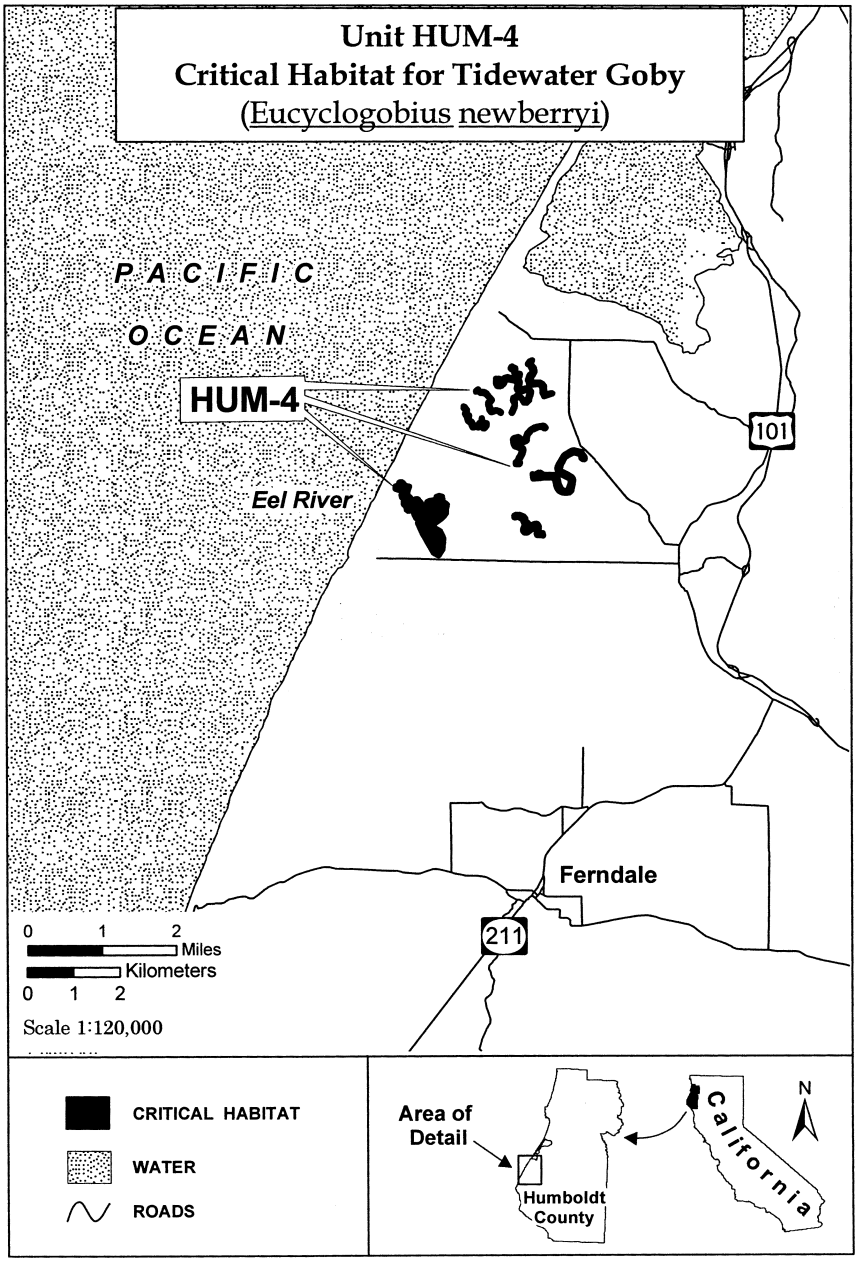
4502306; 392909, 4502350; 392833, 4502381; 392765, 4502403; 392741, 4502454; returning to 392724, 4502551.

(vii) From USGS 1:24,000 scale quadrangles, Cannibal Island. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 393154, 4501798; 393227, 4501791; 393249, 4501813; 393285, 4501830; 393312, 4501808; 393317, 4501830; 393382, 4501791; 393548, 4501791; 393611, 4501786; 393672, 4501755; 393701, 4501711; 393730, 4501568; 393749, 4501521; 393761, 4501487; 393795, 4501456; 393832, 4501434; 393871, 4501429; 393922, 4501451; 393968, 4501568; 393985, 4501633; 393980, 4501665; 393970, 4501684; 393953, 4501704; 393744, 4501810; 393718, 4501830; 393698, 4501878; 393693, 4501920; 393715, 4502002; 393825, 4502187; 393861, 4502228; 393995, 4502311; 394048, 4502323; 394206, 4502289; 394225, 4502250; 394245, 4502214; 394274, 4502189; 394289, 4502153; 394289, 4502124; 394272, 4502112; 394240, 4502129; 394216, 4502158; 394216, 4502192; 394213, 4502214; 394170, 4502238; 394106, 4502262; 394046, 4502272; 394002, 4502248; 393929, 4502211; 393859, 4502163; 393774, 4502002; 393759, 4501956; 393749, 4501915; 393764, 4501871; 393934, 4501781; 394000, 4501738; 394034, 4501689; 394031, 4501638; 393987, 4501439; 393961, 4501402; 393880, 4501380; 393793, 4501393; 393727, 4501434; 393691, 4501478; 393664, 4501541; 393652, 4501616; 393628, 4501701; 393572, 4501725; 393409, 4501721; 393305, 4501716; 393161, 4501696; returning to 393154, 4501798.

(viii) From USGS 1:24,000 scale quadrangles, Cannibal Island. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 392754, 4500850; 392754, 4500887; 392781, 4500908; 392815, 4500908; 392872, 4500908; 392953, 4500871; 392987, 4500820; 392994, 4500793; 393011, 4500756; 393034, 4500736; 393068, 4500702; 393068, 4500645; 393027, 4500604; 393017, 4500581; 393041, 4500574; 393081, 4500614; 393149, 4500689; 393196, 4500716; 393243, 4500716; 393287, 4500658; 393290, 4500601; 393277, 4500537; 393284, 4500496; 393368, 4500507; 393381, 4500446; 393324, 4500453; 393274, 4500453; 393250, 4500456; 393236, 4500480; 393236, 4500540; 393250, 4500591; 393247, 4500631; 393230, 4500648; 393182, 4500648; 393135, 4500594; 393081, 4500544; 393044, 4500520; 393004, 4500520; 392967, 4500520; 392947, 4500557; 392947, 4500598; 392960, 4500638; 393000, 4500648; 393017, 4500672; 393000, 4500689; 392980, 4500695; 392960, 4500726; 392940, 4500773; 392923, 4500813; 392879, 4500840; 392852, 4500864; 392829, 4500864; 392791, 4500850; returning to 392754, 4500850.

(ix) From USGS 1:24,000 scale quadrangles, Cannibal Island. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 390162, 4501488; 390181, 4501544; 390239, 4501544; 390239, 4501568; 390250, 4501613; 390277, 4501632; 390311, 4501632; 390346, 4501592; 390375, 4501549; 390389, 4501514; 390423, 4501541; 390469, 4501533; 390437, 4501429; 390421, 4501365; 390434, 4501333; 390477, 4501288; 390514, 4501237; 390570, 4501240; 390607, 4501245; 390650, 4501245; 390677, 4501216; 390709, 4501179; 390762, 4501109; 390802, 4501069; 390839, 4501064; 390850, 4501117; 390863, 4501184; 390909, 4501219; 390964, 4501227; 391021, 4501232; 391053, 4501240; 391053, 4501296; 391116, 4501323; 391180, 4501315; 391191, 4501256; 391180, 4501208; 391223, 4501179; 391284, 4501131; 391276, 4501067; 391258, 4501016; 391258, 4500931; 391215, 4500877; 391146, 4500816; 391077, 4500768; 391002, 4500717; 390994, 4500640; 391123, 4500560; 391196, 4500393; 391183, 4500150; 391103, 4500023; 390997, 4500083; 390759, 4500488; 390701, 4500616; 390656, 4500728; 390658, 4500824; 390610, 4500832; 390581, 4500904; 390538, 4501008; 390511, 4501053; 390490, 4501008; 390450, 4500997; 390410, 4501019; 390410, 4501059; 390389, 4501107; 390349, 4501139; 390349, 4501165; 390346, 4501197; 390354, 4501251; 390314, 4501285; 390301, 4501325; 390303, 4501363; 390319, 4501416; 390319, 4501474; 390295, 4501485; 390277, 4501458; 390226, 4501458; returning to 390162, 4501488.

(x) *Note:* Map of Unit HUM–4 follows.

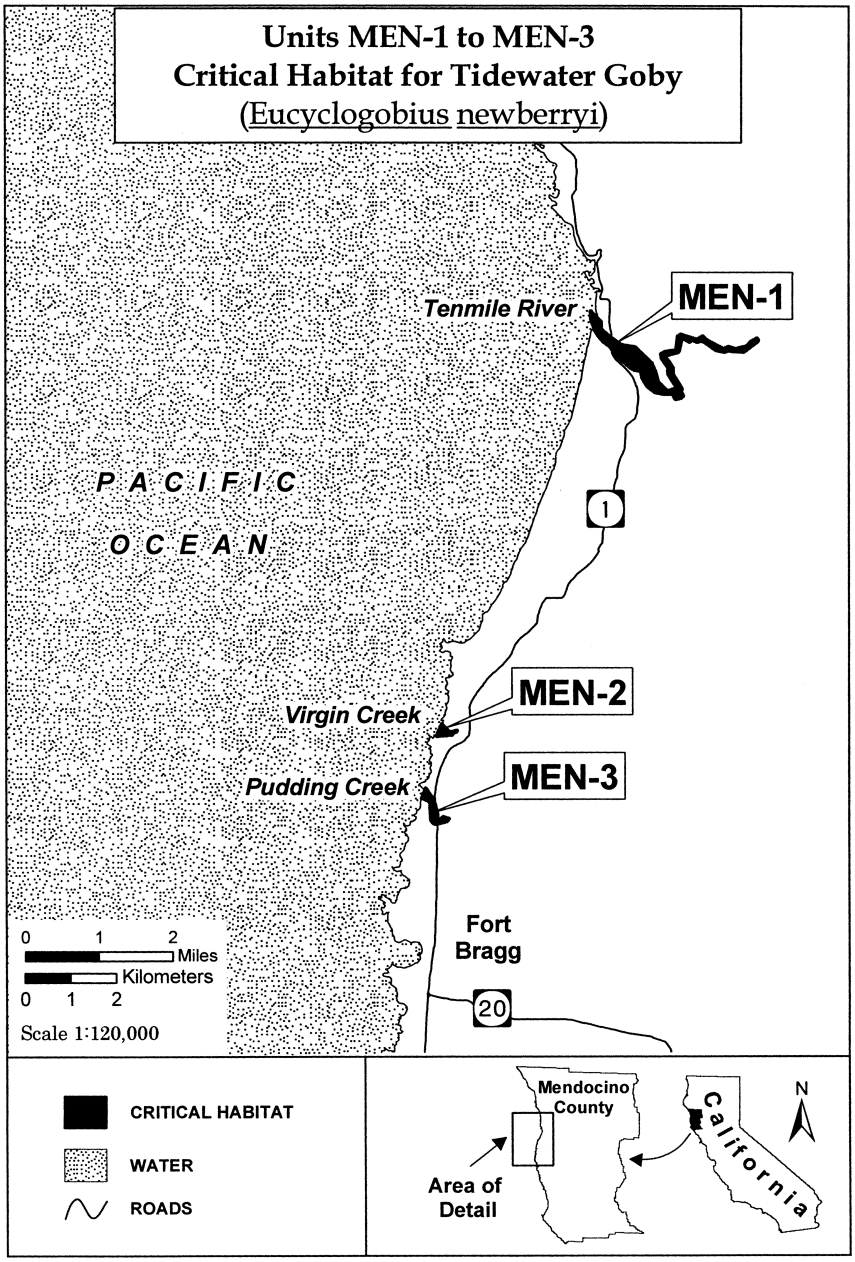


(11) Unit MEN–1; Mendocino County, California.

(i) From USGS 1:24,000 scale quadrangles Inglenook and Covelo. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 434019, 4378674; 434159, 4378526; 434233, 4378461; 434247, 4378280; 434478, 4378076; 434692, 4377937; 434979, 4377882; 435336, 4377548; 435424,

4377344; 435480, 4377126; 435688, 4376927; 435897, 4376996; 435707, 4377288; 435693, 4377376; 435721, 4377427; 435563, 4377645; 435549, 4377742; 435633, 4377784; 435878, 4377831; 435915, 4378132; 435976, 4378169; 436337, 4378053; 436458, 4378136; 436536, 4378048; 436921, 4377849; 437014, 4377900; 437158, 4377844; 437408, 4377905; 437501, 4378007; 437644, 4378085; 437667, 4378039; 437348, 4377793; 437144, 4377798; 437009, 4377817; 436930, 4377784; 436731, 4377835; 436453, 4378039; 436332, 4378007; 436235, 4378053; 436179, 4378007; 435999, 4378104; 435925, 4377789; 435748, 4377742; 435619, 4377696; 435721, 4377571; 435813, 4377423; 435813, 4377293; 436003, 4376968; 435985, 4376913; 436031, 4376815; 435976, 4376774; 435855, 4376755; 435832, 4376802; 435938, 4376839; 435887, 4376885; 435781, 4376866; 435605, 4376857; 435424, 4376899; 435262, 4377015; 435169, 4377140; 435132, 4377219; 435095, 4377376; 434979, 4377390; 434854, 4377455; 434594, 4377687; 434427, 4377905; 434288, 4378016; 434159, 4378169; 434103, 4378280; 434024, 4378489; returning to 434019, 4378674.

(ii) *Note:* Map of Unit MEN–1 follows.



(12) Unit MEN–2; Mendocino County, California.

(i) From USGS 1:24,000 scale quadrangle Fort Bragg. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 430656, 4369380; 430767, 4369639; 430910, 4369479; 430972, 4369449; 430976, 4369468; 431094, 4369506; 431096, 4369479; 431000, 4369454; 431000, 4369421;

430989, 4369407; 430950, 4369412; 430899, 4369412; 430865, 4369388; returning to 430656, 4369380.

(ii) *Note:* MEN–2 included on map with unit MEN–1.

(13) Unit MEN–3; Mendocino County, California.

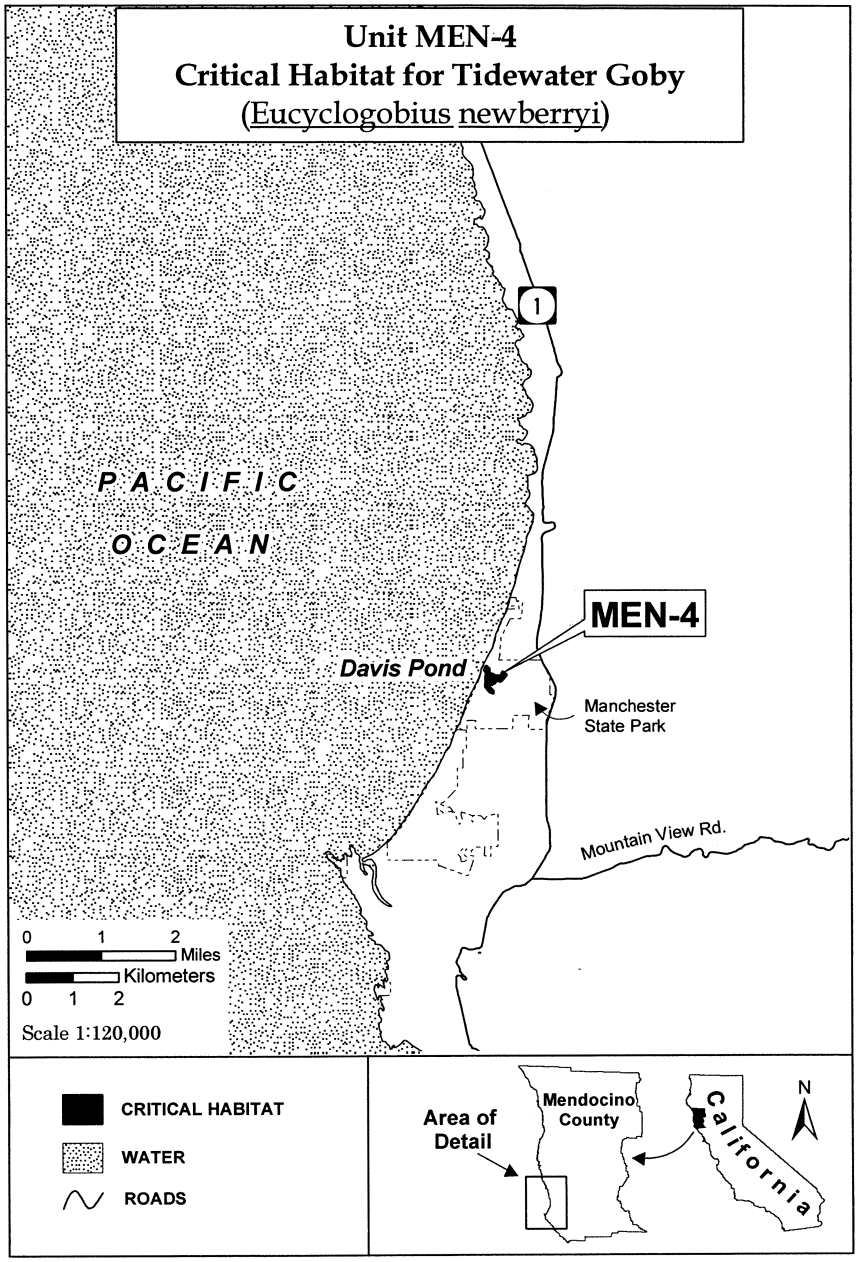
(i) From USGS 1:24,000 scale quadrangle Fort Bragg. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 430347, 4368031; 430419, 4368232; 430587, 4367989;430582, 4367872; 430631, 4367632; 430657, 4367494; 430697, 4367505; 430797, 4367598; 430912, 4367562; 430873, 4367497; 430797, 4367486; 430664, 4367452; 430595, 4367459; 430535, 4367532; 430524, 4367693; 430519, 4367942; returning to 430347, 4368031.

(ii) *Note:* MEN–3 included on map with unit MEN–1.

(14) Unit MEN–4; Mendocino County, California.

(i) From USGS 1:24,000 scale quadrangle Point Arena. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 439145, 4316147; 439192, 4316229; 439254, 4316165; 439256, 4316086; 439350, 4316041; 439362, 4316012; 439390, 4316024; 439513, 4316022; 439550, 4316105; 439639, 4316044; 439513, 4315901; 439409, 4315918; 439385, 4315866; 439323, 4315822; 439232, 4315851; 439219, 4315807; 439348, 4315686; 439345, 4315644; 439279, 4315654; 439168, 4315782; 439190, 4316105; returning to 439145, 4316147.

(ii) *Note:* Map of Unit MEN–4 follows.

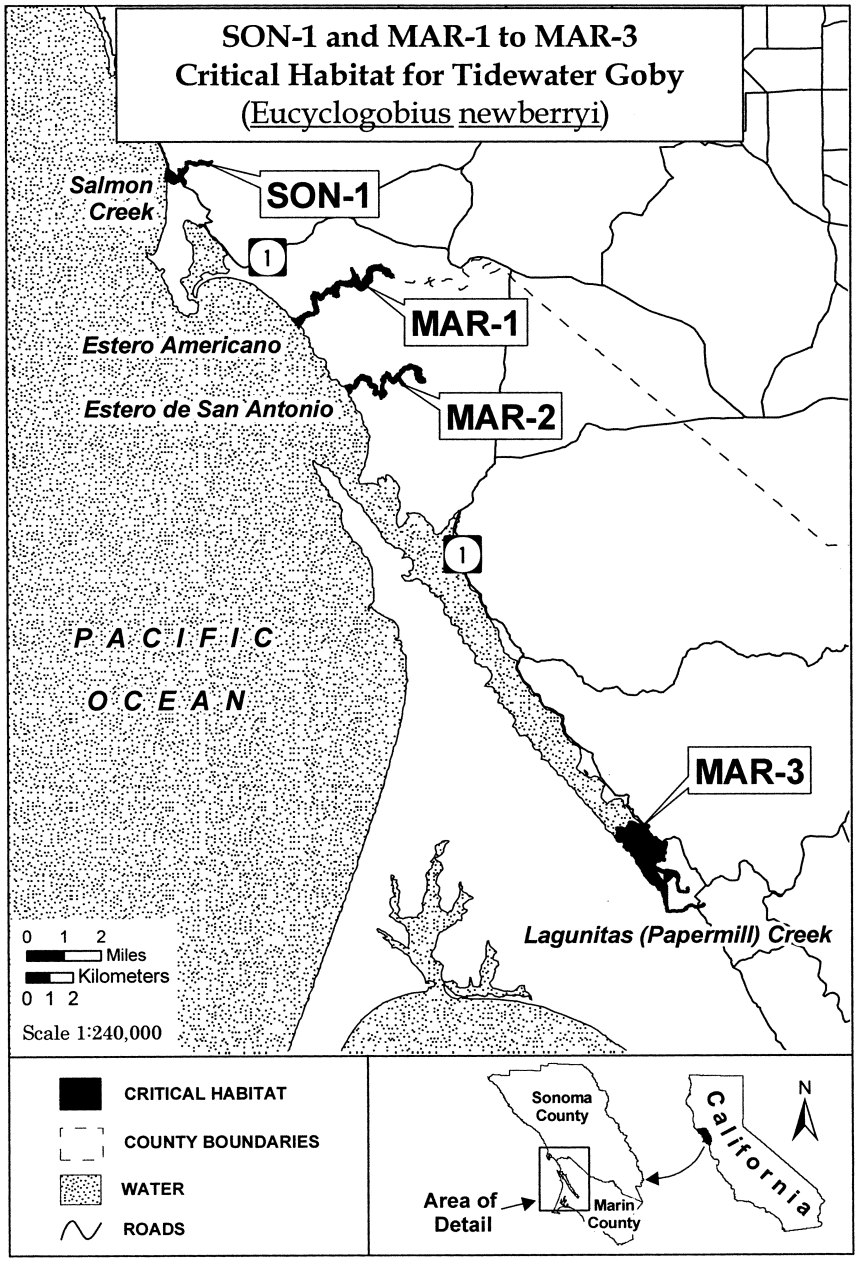


(15) Unit SON–1; Sonoma County, California.

(i) From USGS 1:24,000 scale quadrangle Bodega Head. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 494029, 4245091; 494029, 4245106; 494036, 4245131; 494041, 4245198; 494050, 4245233; 494073, 4245274; 494080, 4245308; 494081, 4245316; 494073, 4245356;

494213, 4245202; 494304, 4245147; 494330, 4245161; 494341, 4245148; 494426, 4245084; 494451, 4245051; 494457, 4245031; 494458, 4245013; 494444, 4244966; 494449, 4244941; 494461, 4244924; 494471, 4244920; 494485, 4244921; 494549, 4244956; 494562, 4244956; 494569, 4244952; 494592, 4244913; 494602, 4244907; 494608, 4244931; 494609, 4244954; 494600, 4245040; 494601, 4245099; 494607, 4245125; 494623, 4245134; 494628, 4245199; 494625, 4245218; 494629, 4245237; 494620, 4245265; 494594, 4245320; 494593, 4245331; 494605, 4245344; 494628, 4245343; 494677, 4245310; 494703, 4245301; 494715, 4245302; 494746, 4245315; 494781, 4245340; 494815, 4245357; 494875, 4245365; 494881, 4245417; 494889, 4245435; 494907, 4245440; 494925, 4245435; 494924, 4245474; 494906, 4245525; 494897, 4245563; 494898, 4245597; 494905, 4245625; 494916, 4245639; 494931, 4245646; 494959, 4245647; 494969, 4245645; 494979, 4245653; 494988, 4245663; 495013, 4245674; 495036, 4245678; 495061, 4245677; 495081, 4245671; 495164, 4245635; 495262, 4245628; 495332, 4245612; 495382, 4245613; 495458, 4245624; 495476, 4245621; 495496, 4245673; 495503, 4245680; 495533, 4245699; 495573, 4245702; 495727, 4245656; 495813, 4245627; 495827, 4245616; 495853, 4245586; 495900, 4245620; 495918, 4245629; 495989, 4245658; 496042, 4245675; 496042, 4245667; 496033, 4245648; 495976, 4245573; 495937, 4245541; 495896, 4245514; 495879, 4245508; 495861, 4245505; 495846, 4245507; 495814, 4245522; 495787, 4245547; 495781, 4245562; 495759, 4245564; 495748, 4245571; 495723, 4245577; 495679, 4245569; 495661, 4245569; 495613, 4245587; 495591, 4245589; 495524, 4245584; 495468, 4245561; 495408, 4245529; 495372, 4245517; 495333, 4245519; 495313, 4245525; 495276, 4245527; 495243, 4245538; 495213, 4245553; 495155, 4245570; 495099, 4245606; 495033, 4245614; 495010, 4245623; 494990, 4245635; 494977, 4245628; 494961, 4245596; 494954, 4245561; 494956, 4245494; 494973, 4245403; 494973, 4245381; 494964, 4245333; 494949, 4245307; 494935, 4245291; 494922, 4245282; 494901, 4245243; 494864, 4245207; 494847, 4245196; 494810, 4245178; 494803, 4245154; 494785, 4245119; 494774, 4245104; 494779, 4245101; 494765, 4245074; 494755, 4245029; 494729, 4245001; 494720, 4244984; 494721, 4244960; 494740, 4244928; 494751, 4244917; 494797, 4244925; 494807, 4244920; 494817, 4244908; 494831, 4244855; 494837, 4244846; 494851, 4244836; 494864, 4244832; 494875, 4244821; 494871, 4244811; 494858, 4244803; 494856, 4244797; 494858, 4244786; 494877, 4244749; 494885, 4244717; 494864, 4244697; 494852, 4244674; 494830, 4244664; 494822, 4244665; 494811, 4244673; 494800, 4244698; 494798, 4244738; 494783, 4244774; 494769, 4244837; 494761, 4244845; 494743, 4244848; 494733, 4244860; 494722, 4244859; 494697, 4244843; 494687, 4244843; 494676, 4244847; 494645, 4244892; 494637, 4244898; 494613, 4244856; 494585, 4244822; 494556, 4244807; 494537, 4244790; 494454, 4244761; 494407, 4244738; 494377, 4244733; 494344, 4244733; 494300, 4244747; 494282, 4244762; 494224, 4244795; 494181, 4244836; 494164, 4244901; 494122, 4244924; 494104, 4244921; 494098, 4244912; 494092, 4244885; 494085, 4244825; 494042, 4244824; 494037, 4244931; 494037, 4245018; returning to 494029, 4245091.

(ii) *Note:* Map of Unit SON–1 follows.



(16) Unit MAR–1; Marin County, California.

(i) From USGS 1:24,000 scale quadrangles Bodega Head and Valley Ford. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 499504, 4238760; 499508, 4238800; 499544, 4238796; 499614, 4238765; 499677, 4238749; 499701, 4238735; 499736, 4238762; 499804, 4238825; 499878, 4238873; 499903, 4238902; 499936, 4238909;

500005, 4238953; 500027, 4238964; 500062, 4238972; 500063, 4238985; 500072, 4238994; 500100, 4239010; 500161, 4239021; 500178, 4239034; 500184, 4239047; 500198, 4239059; 500220, 4239069; 500240, 4239071; 500280, 4239066; 500327, 4239054; 500356, 4239032; 500372, 4239015; 500401, 4239022; 500461, 4239056; 500481, 4239078; 500498, 4239106; 500507, 4239129; 500505, 4239157; 500488, 4239281; 500455, 4239440; 500447, 4239534; 500437, 4239556; 500385, 4239650; 500373, 4239685; 500370, 4239722; 500370, 4239741; 500381, 4239770; 500400, 4239802; 500413, 4239834; 500423, 4239848; 500435, 4239857; 500442, 4239859; 500443, 4239878; 500452, 4239910; 500464, 4239937; 500475, 4239950; 500488, 4239952; 500503, 4239946; 500514, 4239928; 500526, 4239920; 500570, 4239933; 500596, 4239933; 500608, 4239929; 500623, 4239921; 500628, 4239914; 500637, 4239890; 500673, 4239876; 500707, 4239844; 500730, 4239829; 500749, 4239824; 500758, 4239816; 500773, 4239811; 500798, 4239818; 500819, 4239834; 500849, 4239869; 500906, 4239912; 500936, 4239957; 500954, 4239973; 500970, 4239994; 500983, 4240021; 500996, 4240042; 501030, 4240066; 501062, 4240083; 501083, 4240087; 501104, 4240080; 501184, 4240091; 501238, 4240117; 501251, 4240132; 501253, 4240151; 501270, 4240163; 501277, 4240172; 501286, 4240190; 501287, 4240205; 501325, 4240204; 501341, 4240219; 501359, 4240245; 501384, 4240271; 501430, 4240315; 501465, 4240370; 501486, 4240380; 501517, 4240388; 501575, 4240419; 501609, 4240427; 501636, 4240412; 501655, 4240406; 501738, 4240407; 501777, 4240401; 501811, 4240400; 501881, 4240411; 501960, 4240413; 502040, 4240423; 502095, 4240446; 502106, 4240461; 502129, 4240476; 502144, 4240499; 502160, 4240550; 502173, 4240630; 502180, 4240746; 502176, 4240765; 502158, 4240809; 502119, 4240886; 502104, 4240923; 502098, 4240980; 502114, 4240991; 502136, 4240976; 502169, 4240898; 502220, 4240806; 502244, 4240731; 502265, 4240626; 502278, 4240594; 502293, 4240580; 502315, 4240584; 502326, 4240599; 502327, 4240626; 502320, 4240691; 502322, 4240700; 502338, 4240702; 502371, 4240621; 502400, 4240576; 502405, 4240557; 502399, 4240509; 502399, 4240489; 502413, 4240468; 502434, 4240452; 502450, 4240428; 502466, 4240397; 502495, 4240363; 502519, 4240346; 502537, 4240338; 502557, 4240342; 502584, 4240363; 502595, 4240388; 502602, 4240418; 502605, 4240470; 502611, 4240479; 502718, 4240572; 502725, 4240593; 502723, 4240624; 502747, 4240642; 502754, 4240651; 502758, 4240669; 502767, 4240688; 502777, 4240705; 502797, 4240718; 502794, 4240800; 502795, 4240867; 502798, 4240896; 502808, 4240933; 502821, 4240957; 502873, 4240992; 502884, 4241002; 502891, 4241014; 502911, 4241029; 502933, 4241039; 502970, 4241050; 502985, 4241060; 503052, 4241081; 503082, 4241096; 503092, 4241105; 503148, 4241109; 503171, 4241106; 503196, 4241111; 503252, 4241107; 503260, 4241117; 503306, 4241118; 503358, 4241139; 503404, 4241121; 503447, 4241049; 503487, 4241012; 503527, 4240985; 503593, 4240965; 503689, 4240957; 503712, 4240949; 503723, 4240932; 503726, 4240904; 503748, 4240861; 503776, 4240796; 503793, 4240777; 503845, 4240733; 503901, 4240690; 503854, 4240598; 503832, 4240606; 503760, 4240646; 503716, 4240677; 503695, 4240688; 503642, 4240678; 503618, 4240683; 503600, 4240693; 503594, 4240691; 503576, 4240744; 503558, 4240771; 503515, 4240790; 503496, 4240806; 503469, 4240838; 503463, 4240852; 503463, 4240865; 503405, 4240913; 503397, 4240906; 503384, 4240904; 503351, 4240912; 503293, 4240922; 503255, 4240935; 503212, 4240946; 503163, 4240942; 503094, 4240925; 503034, 4240899; 503007, 4240876; 502992, 4240860; 502956, 4240784; 502952, 4240757; 502968, 4240700; 502981, 4240553; 502979, 4240509; 502974, 4240477; 502975, 4240464; 502952, 4240418; 502940, 4240408; 502929, 4240403; 502891, 4240364; 502871, 4240362; 502855, 4240349; 502840, 4240302; 502819, 4240265; 502790, 4240237; 502768, 4240229; 502751, 4240182; 502735, 4240168; 502708, 4240157; 502680, 4240126; 502668, 4240105; 502656, 4240106; 502633, 4240099; 502615, 4240079; 502587, 4240057; 502546, 4240046; 502506, 4240050; 502469, 4240064; 502368, 4240139; 502323, 4240192; 502289, 4240214; 502257, 4240244; 502227, 4240264; 502205, 4240291; 502195, 4240299; 502180, 4240298; 502165, 4240287; 502136, 4240228; 502114, 4240207; 502103, 4240203; 502083, 4240207; 502049, 4240229; 501943, 4240211; 501923, 4240214; 501862, 4240241; 501805, 4240273; 501697, 4240287; 501618, 4240289; 501585, 4240280; 501564, 4240264; 501552, 4240243; 501547, 4240214; 501547, 4240185; 501553, 4240163; 501554, 4240137; 501549, 4240107; 501528, 4240059; 501501, 4239941; 501502, 4239930; 501510, 4239922; 501526, 4239886; 501540, 4239833; 501544, 4239784; 501530, 4239776; 501472, 4239756; 501450, 4239758; 501427, 4239768; 501398, 4239791; 501386, 4239793; 501365, 4239788; 501343, 4239779; 501329, 4239789; 501320, 4239805; 501313, 4239853; 501323, 4239877; 501301, 4239910; 501160, 4239932; 501112, 4239952; 501083, 4239959; 501064, 4239952; 501020, 4239893; 500941, 4239832; 500923, 4239812; 500907, 4239788; 500882, 4239732; 500853, 4239686; 500819, 4239653; 500803, 4239642; 500779, 4239634; 500746, 4239629; 500732, 4239634; 500695, 4239671; 500631, 4239724; 500592, 4239779; 500583, 4239790; 500563, 4239803; 500548, 4239805; 500519, 4239790; 500512, 4239790; 500512, 4239787; 500487, 4239769; 500481, 4239732; 500484, 4239711; 500498, 4239665; 500510, 4239647; 500534, 4239627; 500555, 4239571; 500568, 4239495; 500569, 4239439; 500588, 4239379; 500606, 4239340; 500613, 4239309; 500628, 4239185; 500629, 4239095; 500623, 4239078; 500620, 4239047; 500608, 4239036; 500519, 4239007; 500496, 4238993; 500476, 4238973; 500456, 4238963; 500416, 4238961; 500331, 4238943; 500280, 4238939; 500261, 4238934; 500243, 4238921; 500189, 4238905; 500107, 4238872; 500056, 4238858; 500052, 4238862; 500051, 4238835; 500054, 4238810; 500019, 4238752; 499983, 4238705; 499974, 4238679; 499937, 4238635; 499925, 4238595; 499913, 4238583; 499903, 4238578; 499888, 4238558; 499870, 4238552; 499844, 4238552; 499852, 4238518; 499804, 4238427; 499803, 4238428; 499795, 4238445; 499785, 4238485; 499775, 4238512; 499746, 4238551; 499704, 4238593; 499689, 4238612; 499666, 4238642; 499664, 4238654; 499620, 4238686; 499608, 4238692; 499558, 4238730; returning to 499504, 4238760.

(ii) Note: MAR–1 included on map with unit SON–1.

(17) Unit MAR–2; Marin County, California.

(i) From USGS 1:24,000 scale quadrangle Valley Ford. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 501844, 4235816; 501869, 4235829; 501901, 4235841; 501952, 4235843; 501975, 4235847; 502011, 4235864; 502034, 4235869; 502045, 4235867; 502058, 4235854; 502094, 4235857; 502155, 4235838; 502166, 4235832;

502185, 4235799; 502195, 4235787; 502209, 4235779; 502227, 4235790; 502243, 4235803; 502264, 4235828; 502260, 4235848; 502249, 4235874; 502238, 4235889; 502232, 4235915; 502237, 4235926; 502247, 4235933; 502257, 4235980; 502256, 4236020; 502264, 4236059; 502279, 4236074; 502285, 4236075; 502294, 4236087; 502311, 4236103; 502370, 4236146; 502433, 4236217; 502476, 4236246; 502492, 4236265; 502505, 4236290; 502517, 4236302; 502541, 4236310; 502566, 4236312; 502597, 4236307; 502617, 4236298; 502639, 4236278; 502660, 4236266; 502678, 4236265; 502726, 4236249; 502763, 4236251; 502786, 4236244; 502820, 4236221; 502854, 4236206; 502885, 4236185; 502899, 4236169; 502916, 4236138; 502922, 4236113; 502924, 4236033; 502954, 4235919; 502987, 4235904; 503034, 4235892; 503094, 4235861; 503142, 4235831; 503162, 4235831; 503169, 4235826; 503182, 4235792; 503185, 4235721; 503181, 4235680; 503167, 4235654; 503148, 4235640; 503132, 4235639; 503121, 4235623; 503090, 4235589; 503084, 4235575; 503083, 4235547; 503086, 4235533; 503098, 4235529; 503114, 4235528; 503137, 4235533; 503147, 4235538; 503150, 4235551; 503168, 4235574; 503201, 4235589; 503217, 4235593; 503267, 4235588; 503320, 4235567; 503338, 4235553; 503363, 4235519; 503369, 4235498; 503372, 4235469; 503382, 4235452; 503417, 4235436; 503435, 4235434; 503450, 4235439; 503484, 4235464; 503498, 4235485; 503517, 4235531; 503520, 4235579; 503457, 4235629; 503421, 4235649; 503398, 4235676; 503391, 4235697; 503386, 4235757; 503391, 4235822; 503401, 4235854; 503452, 4235951; 503458, 4235990; 503453, 4236015; 503426, 4236053; 503411, 4236053; 503397, 4236064; 503392, 4236074; 503390, 4236108; 503395, 4236119; 503407, 4236128; 503413, 4236128; 503452, 4236228; 503469, 4236249; 503487, 4236266; 503520, 4236286; 503557, 4236296; 503561, 4236310; 503582, 4236325; 503594, 4236340; 503616, 4236424; 503645, 4236420; 503664, 4236395; 503682, 4236381; 503722, 4236372; 503735, 4236366; 503742, 4236358; 503755, 4236305; 503769, 4236280; 503754, 4236250; 503758, 4236236; 503780, 4236212; 503809, 4236187; 503841, 4236174; 503847, 4236126; 503871, 4236121; 503909, 4236129; 503925, 4236140; 503987, 4236215; 504003, 4236228; 504043, 4236285; 504055, 4236311; 504077, 4236343; 504097, 4236363; 504139, 4236392; 504153, 4236397; 504170, 4236395; 504184, 4236416; 504201, 4236467; 504217, 4236496; 504254, 4236533; 504290, 4236560; 504326, 4236578; 504330, 4236597; 504346, 4236625; 504363, 4236642; 504432, 4236677; 504471, 4236682; 504504, 4236676; 504530, 4236696; 504546, 4236721; 504555, 4236721; 504543, 4236680; 504532, 4236598; 504554, 4236596; 504566, 4236592; 504567, 4236647; 504576, 4236685; 504602, 4236760; 504618, 4236767; 504641, 4236767; 504678, 4236742; 504735, 4236729; 504793, 4236721; 504804, 4236713; 504863, 4236692; 504887, 4236680; 504910, 4236676; 504929, 4236666; 504957, 4236659; 504991, 4236641; 505002, 4236627; 505042, 4236595; 505080, 4236573; 505091, 4236558; 505100, 4236531; 505101, 4236511; 505091, 4236502; 505080, 4236484; 505076, 4236463; 505083, 4236421; 505099, 4236388; 505102, 4236369; 505100, 4236348; 505086, 4236314; 505064, 4236296; 505030, 4236286; 505011, 4236268; 505015, 4236246; 505038, 4236204; 505059, 4236193; 505078, 4236186; 505096, 4236190; 505122, 4236211; 505142, 4236209; 505203, 4236170; 505228, 4236139; 505242, 4236138; 505261, 4236028; 505202, 4236006; 505148, 4236000; 505092, 4236005; 505048, 4236022; 505012, 4236055; 504974, 4236101; 504934, 4236137; 504925, 4236150; 504915, 4236176; 504902, 4236219; 504899, 4236245; 504886, 4236289; 504868, 4236337; 504863, 4236360; 504862, 4236421; 504870, 4236478; 504870, 4236492; 504866, 4236505; 504856, 4236527; 504833, 4236558; 504806, 4236588; 504779, 4236609; 504732, 4236630; 504711, 4236629; 504639, 4236597; 504582, 4236580; 504502, 4236569; 504448, 4236572; 504430, 4236570; 504411, 4236573; 504400, 4236571; 504384, 4236563; 504385, 4236542; 504375, 4236517; 504337, 4236457; 504298, 4236426; 504219, 4236346; 504201, 4236315; 504183, 4236293; 504173, 4236272; 504167, 4236249; 504168, 4236222; 504173, 4236197; 504205, 4236146; 504236, 4236076; 504315, 4235970; 504353, 4235929; 504369, 4235918; 504395, 4235892; 504417, 4235851; 504409, 4235842; 504360, 4235869; 504323, 4235875; 504306, 4235882; 504277, 4235922; 504198, 4236053; 504159, 4236097; 504137, 4236114; 504091, 4236117; 504064, 4236104; 504018, 4236049; 504006, 4236040; 503995, 4236025; 503979, 4236011; 503938, 4236007; 503929, 4236000; 503921, 4235982; 503903, 4235971; 503890, 4235970; 503870, 4235977; 503825, 4236018; 503808, 4236039; 503778, 4236065; 503757, 4236078; 503658, 4236217; 503631, 4236246; 503606, 4236256; 503573, 4236228; 503559, 4236211; 503533, 4236121; 503531, 4236101; 503542, 4236018; 503539, 4236000; 503530, 4235984; 503514, 4235972; 503498, 4235963; 503491, 4235963; 503446, 4235819; 503443, 4235770; 503445, 4235736; 503467, 4235678; 503485, 4235657; 503540, 4235615; 503572, 4235573; 503579, 4235542; 503580, 4235509; 503574, 4235466; 503565, 4235442; 503551, 4235421; 503532, 4235401; 503483, 4235367; 503454, 4235355; 503430, 4235353; 503415, 4235346; 503401, 4235330; 503397, 4235312; 503382, 4235287; 503371, 4235284; 503354, 4235364; 503342, 4235403; 503321, 4235425; 503289, 4235476; 503277, 4235483; 503246, 4235490; 503158, 4235460; 503131, 4235445; 503119, 4235445; 503109, 4235448; 503085, 4235473; 503065, 4235505; 503050, 4235514; 503047, 4235537; 503083, 4235627; 503099, 4235711; 503070, 4235762; 503058, 4235774; 503036, 4235782; 502983, 4235785; 502924, 4235801; 502911, 4235812; 502896, 4235831; 502880, 4235869; 502871, 4235883; 502860, 4235892; 502843, 4235896; 502832, 4235910; 502823, 4235964; 502827, 4235986; 502815, 4236004; 502772, 4236040; 502764, 4236044; 502734, 4236097; 502725, 4236106; 502696, 4236096; 502678, 4236097; 502660, 4236103; 502612, 4236131; 502589, 4236133; 502545, 4236128; 502484, 4236109; 502462, 4236112; 502448, 4236101; 502411, 4236068; 502401, 4236052; 502383, 4235959; 502374, 4235940; 502316, 4235858; 502293, 4235812; 502255, 4235765; 502239, 4235754; 502200, 4235744; 502143, 4235737; 502105, 4235743; 502095, 4235731; 502060, 4235723; 502055, 4235715; 502056, 4235698; 502069, 4235647; 502067, 4235625; 502057, 4235578; 502048, 4235556; 502013, 4235524; 501971, 4235525; 501983, 4235546; 501982, 4235568; 501977, 4235587; 501953, 4235616; 501906, 4235700; 501885, 4235727; returning to 501844, 4235816.

(ii) *Note:* MAR–2 included on map with unit SON–1.

(18) Unit MAR–3; Marin County, California.

(i) From USGS 1:24,000 scale quadrangle Inverness. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 513514, 4216097; 513604, 4216208; 513584, 4216239; 513583, 4216271; 513625, 4216303; 513631, 4216312; 513619,

4216354; 513565, 4216417; 513558, 4216445; 513563, 4216473; 513569, 4216476; 513611, 4216470; 513644, 4216503; 513772, 4216500; 513830, 4216473; 513917, 4216413; 513956, 4216410; 513973, 4216431; 513982, 4216471; 513991, 4216493; 514025, 4216527; 514042, 4216554; 514108, 4216683; 514150, 4216742; 514170, 4216757; 514220, 4216753; 514364, 4216710; 514436, 4216662; 514458, 4216654; 514485, 4216622; 514695, 4216634; 514738, 4216644; 514826, 4216626; 514851, 4216613; 514891, 4216579; 514929, 4216557; 514938, 4216548; 514941, 4216524; 514889, 4216463; 514891, 4216417; 514873, 4216385; 514953, 4216265; 514968, 4216251; 514978, 4216230; 515061, 4216173; 515095, 4216115; 515134, 4216070; 515170, 4216051; 515245, 4216023; 515278, 4216002; 515326, 4215955; 515348, 4215915; 515357, 4215910; 515373, 4215919; 515394, 4215921; 515420, 4215916; 515450, 4215900; 515490, 4215873; 515512, 4215854; 515537, 4215818; 515553, 4215809; 515579, 4215809; 515596, 4215817; 515627, 4215839; 515653, 4215869; 515678, 4215877; 515696, 4215877; 515718, 4215866; 515731, 4215855; 515739, 4215838; 515738, 4215757; 515677, 4215581; 515666, 4215529; 515667, 4215492; 515683, 4215444; 515684, 4215427; 515677, 4215392; 515656, 4215367; 515622, 4215340; 515612, 4215229; 515597, 4215195; 515552, 4215127; 515552, 4215119; 515559, 4215114; 515623, 4215129; 515640, 4215129; 515656, 4215117; 515666, 4215100; 515664, 4215074; 515658, 4215068; 515640, 4215065; 515584, 4215079; 515501, 4215090; 515466, 4215081; 515409, 4215031; 515388, 4215023; 515353, 4215016; 515283, 4215038; 515250, 4215036; 515241, 4215024; 515236, 4214961; 515237, 4214923; 515228, 4214865; 515219, 4214836; 515229, 4214794; 515261, 4214764; 515281, 4214753; 515297, 4214737; 515368, 4214697; 515456, 4214653; 515538, 4214613; 515597, 4214608; 515658, 4214608; 515698, 4214618; 515733, 4214623; 515761, 4214626; 515839, 4214617; 515871, 4214614; 515928, 4214605; 515990, 4214594; 516035, 4214580; 516084, 4214559; 516115, 4214546; 516151, 4214529; 516178, 4214500; 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516460, 4212877; 516519, 4212934; 516543, 4212968; 516626, 4213020; 516655, 4213052; 516693, 4213077; 516759, 4213090; 516828, 4213090; 516889, 4213077; 517008, 4213030; 517030, 4213025; 517082, 4213024; 517131, 4213030; 517228, 4213069; 517236, 4213065; 517267, 4213072; 517287, 4213086; 517322, 4213135; 517351, 4213143; 517365, 4213108; 517316, 4213056; 517237, 4213017; 517120, 4212997; 517067, 4212999; 517030, 4213000; 516972, 4213009; 516909, 4213047; 516846, 4213069; 516808, 4213071; 516695, 4213054; 516642, 4213015; 516612, 4212980; 516593, 4212954; 516603, 4212933; 516600, 4212930; 516526, 4212877; 516486, 4212856; 516462, 4212851; 516423, 4212833; 516302, 4212826; 516255, 4212827; 516159, 4212807; 516043, 4212816; 515868, 4212806; 515827, 4212805; 515777, 4212820; 515745, 4212837; 515734, 4212869; 515720, 4212959; 515700, 4213067; 515695, 4213091; 515651, 4213155; 515634, 4213216; 515632, 4213261; 515602, 4213448; 515588, 4213495; 515577, 4213506; 515564, 4213552; 515555, 4213566; 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513905, 4215825; 513920, 4215877; 513919, 4215910; 513904, 4215922; 513884, 4215922; 513765, 4215908; 513738, 4215900; 513682, 4215900; 513653, 4215910; 513577, 4215954; 513558, 4215989; 513534, 4216071; returning to 513514, 4216097.

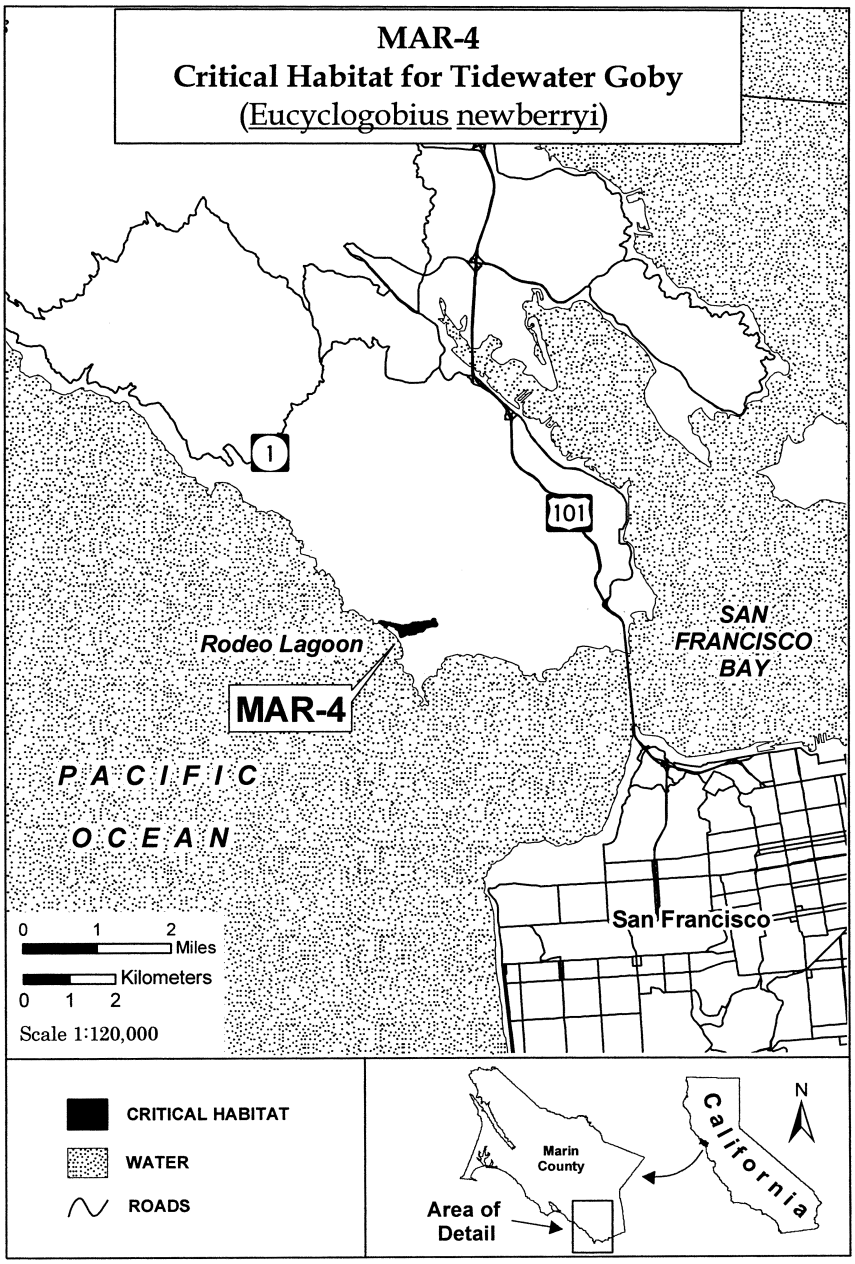
(ii) *Note:* MAR–3 included on map with unit SON–1.

(19) Unit MAR–4; Marin County, California.

(i) From USGS 1:24,000 scale quadrangle Point Bonita. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 540461, 4187256; 540478, 4187263; 540497, 4187265; 540522, 4187261; 540558, 4187249; 540606, 4187242; 540637, 4187227; 540692, 4187224; 540716, 4187211; 540738, 4187212; 540797, 4187198; 540841, 4187197; 540908, 4187177; 540933, 4187165; 540960, 4187172;

541012, 4187168; 541039, 4187176; 541116, 4187175; 541129, 4187180; 541157, 4187206; 541177, 4187219; 541199, 4187225; 541320, 4187238; 541372, 4187230; 541384, 4187231; 541435, 4187247; 541521, 4187268; 541564, 4187257; 541591, 4187261; 541605, 4187268; 541649, 4187308; 541658, 4187309; 541669, 4187303; 541677, 4187291; 541702, 4187235; 541718, 4187190; 541716, 4187182; 541698, 4187171; 541614, 4187164; 541520, 4187142; 541501, 4187142; 541483, 4187137; 541407, 4187061; 541393, 4187058; 541379, 4187060; 541367, 4187056; 541315, 4187050; 541277, 4187033; 541269, 4187022; 541254, 4187011; 541227, 4187001; 541195, 4186993; 541106, 4186984; 541072, 4186990; 541049, 4186990; 541017, 4186963; 540991, 4186948; 540940, 4186941; 540927, 4186948; 540922, 4186958; 540907, 4187027; 540893, 4187060; 540879, 4187076; 540838, 4187110; 540823, 4187139; 540776, 4187161; 540758, 4187164; 540691, 4187189; 540644, 4187199; 540628, 4187211; 540619, 4187155; 540594, 4187167; 540557, 4187191; 540546, 4187209; 540521, 4187230; 540490, 4187247; returning to 540461, 4187256.

(ii) *Note:* Map of Unit MAR–4 follows.

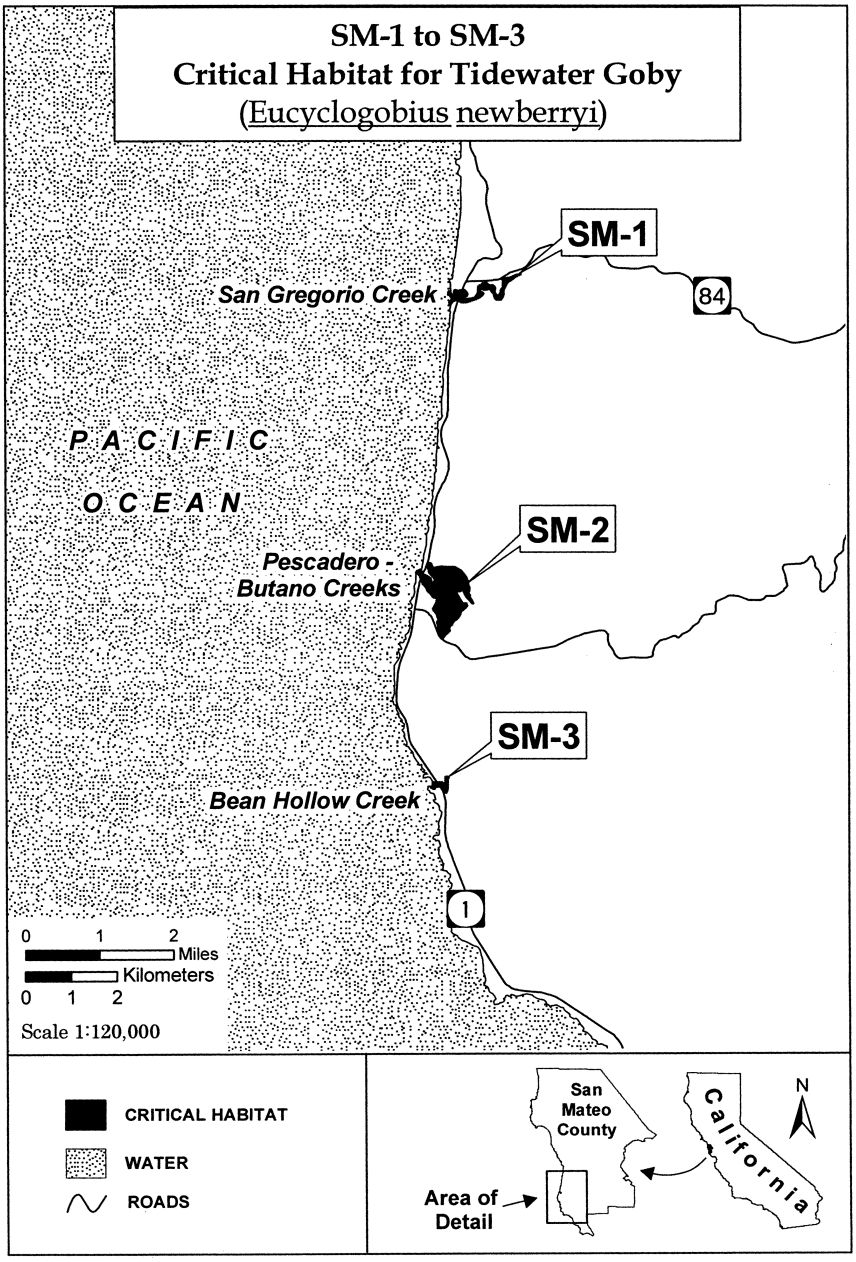


(20) Unit SM–1; San Mateo County, California.

(i) From USGS 1:24,000 scale quadrangle San Gregorio. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 552769, 4130764; 552784, 4130813; 552806, 4130800; 552837, 4130766; 552869, 4130686; 552884, 4130681; 552903, 4130686; 552920, 4130694; 552922, 4130709;

552911, 4130785; 552902, 4130822; 552922, 4130836; 552970, 4130825; 553001, 4130812; 553002, 4130822; 553007, 4130831; 553023, 4130833; 553044, 4130845; 553055, 4130845; 553062, 4130833; 553033, 4130773; 553019, 4130747; 552990, 4130725; 552984, 4130712; 552986, 4130699; 552996, 4130680; 552994, 4130669; 553045, 4130645; 553053, 4130658; 553042, 4130666; 553031, 4130662; 553018, 4130666; 553014, 4130673; 553014, 4130685; 553029, 4130715; 553082, 4130729; 553095, 4130737; 553114, 4130758; 553104, 4130777; 553074, 4130796; 553064, 4130807; 553070, 4130823; 553087, 4130854; 553098, 4130853; 553127, 4130841; 553134, 4130834; 553164, 4130795; 553180, 4130782; 553192, 4130766; 553191, 4130751; 553175, 4130728; 553151, 4130709; 553105, 4130698; 553092, 4130688; 553065, 4130685; 553055, 4130679; 553064, 4130660; 553067, 4130638; 553129, 4130636; 553186, 4130647; 553246, 4130652; 553343, 4130671; 553365, 4130689; 553384, 4130713; 553395, 4130732; 553402, 4130752; 553430, 4130800; 553435, 4130825; 553429, 4130884; 553430, 4130910; 553441, 4130936; 553453, 4130944; 553467, 4130948; 553502, 4130945; 553508, 4130973; 553528, 4130987; 553549, 4130991; 553571, 4131006; 553586, 4131011; 553605, 4131002; 553659, 4130945; 553667, 4130948; 553723, 4130945; 553737, 4130947; 553753, 4130942; 553768, 4130928; 553780, 4130897; 553784, 4130877; 553777, 4130834; 553779, 4130818; 553776, 4130791; 553818, 4130733; 553862, 4130714; 553887, 4130720; 553893, 4130736; 553893, 4130747; 553919, 4130794; 553919, 4130845; 553929, 4130866; 553957, 4130889; 553968, 4130919; 553968, 4130976; 553972, 4131011; 553977, 4131026; 553974, 4131044; 553980, 4131056; 553980, 4131066; 553976, 4131079; 553951, 4131094; 553947, 4131102; 553959, 4131114; 553985, 4131130; 553993, 4131115; 553993, 4131101; 553988, 4131093; 553990, 4131079; 554001, 4131070; 554018, 4131066; 554040, 4131090; 554062, 4131105; 554119, 4131109; 554269, 4131178; 554316, 4131182; 554333, 4131195; 554351, 4131198; 554351, 4131196; 554335, 4131192; 554317, 4131179; 554288, 4131168; 554267, 4131164; 554208, 4131138; 554147, 4131083; 554077, 4131038; 554060, 4131018; 554043, 4130994; 554019, 4130938; 553999, 4130900; 553966, 4130851; 553964, 4130761; 553940, 4130687; 553915, 4130651; 553885, 4130640; 553858, 4130640; 553825, 4130650; 553796, 4130668; 553782, 4130691; 553778, 4130741; 553774, 4130763; 553739, 4130802; 553689, 4130875; 553674, 4130880; 553655, 4130880; 553595, 4130860; 553571, 4130860; 553542, 4130867; 553528, 4130882; 553496, 4130890; 553483, 4130887; 553469, 4130877; 553458, 4130860; 553466, 4130828; 553466, 4130811; 553525, 4130783; 553526, 4130769; 553516, 4130741; 553478, 4130715; 553457, 4130694; 553430, 4130682; 553407, 4130693; 553406, 4130691; 553427, 4130681; 553393, 4130665; 553379, 4130655; 553201, 4130593; 553153, 4130581; 553106, 4130582; 553063, 4130589; 552978, 4130631; 552944, 4130637; 552870, 4130605; 552858, 4130583; 552836, 4130558; 552806, 4130534; 552796, 4130562; 552814, 4130572; 552831, 4130587; 552845, 4130628; 552848, 4130683; 552812, 4130742; 552795, 4130760; 552781, 4130745; returning to 552769, 4130764.

(ii) *Note:* Map of Unit SM–1 follows.



(21) Unit SM–2; San Mateo County, California.

(i) From USGS 1:24,000 scale quadrangle San Gregorio. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 552093, 4124660; 552152, 4124706; 552208, 4124607; 552227, 4124591; 552243, 4124592; 552325, 4124545; 552363, 4124496; 552398, 4124421; 552447, 4124421;

552455, 4124442; 552467, 4124459; 552488, 4124471; 552450, 4124533; 552377, 4124608; 552346, 4124657; 552335, 4124723; 552321, 4124759; 552323, 4124841; 552354, 4124844; 552378, 4124827; 552397, 4124804; 552407, 4124755; 552427, 4124731; 552597, 4124774; 552629, 4124773; 552719, 4124759; 552869, 4124762; 552893, 4124753; 552993, 4124703; 553029, 4124682; 553080, 4124628; 553127, 4124563; 553153, 4124520; 553167, 4124484; 553187, 4124393; 553202, 4124352; 553210, 4124314; 553217, 4124262; 553193, 4124183; 553219, 4124140; 553217, 4124107; 553244, 4124048; 553299, 4123975; 553291, 4123974; 553283, 4123980; 553247, 4124020; 553193, 4124079; 553160, 4124113; 553090, 4124253; 553059, 4124264; 553043, 4124264; 553015, 4124246; 552988, 4124239; 552956, 4124241; 552929, 4124251; 552910, 4124268; 552904, 4124290; 552879, 4124333; 552822, 4124365; 552750, 4124346; 552794, 4124318; 552923, 4124211; 552939, 4124187; 552949, 4124149; 553065, 4123962; 553146, 4123962; 553167, 4123910; 553011, 4123777; 553011, 4123740; 553008, 4123719; 552983, 4123672; 552957, 4123643; 552869, 4123570; 552848, 4123540; 552830, 4123498; 552782, 4123479; 552779, 4123446; 552755, 4123403; 552782, 4123375; 552764, 4123347; 552691, 4123276; 552643, 4123214; 552613, 4123228; 552596, 4123246; 552575, 4123285; 552556, 4123361; 552537, 4123392; 552532, 4123420; 552548, 4123460; 552514, 4123531; 552519, 4123555; 552546, 4123582; 552538, 4123656; 552519, 4123697; 552511, 4123732; 552439, 4123832; 552435, 4123848; 552437, 4123872; 552479, 4123937; 552486, 4123961; 552533, 4124099; 552484, 4124100; 552447, 4124107; 552422, 4124127; 552410, 4124150; 552382, 4124180; 552343, 4124217; 552325, 4124244; 552294, 4124280; 552279, 4124320; 552239, 4124387; 552218, 4124395; 552203, 4124420; 552187, 4124528; 552156, 4124540; 552144, 4124553; 552149, 4124572; 552134, 4124599; 552104, 4124618; returning to 552093, 4124660.

(ii) *Note:* SM–2 included on map with unit SM–1.

(22) Unit SM–3; San Mateo County, California.

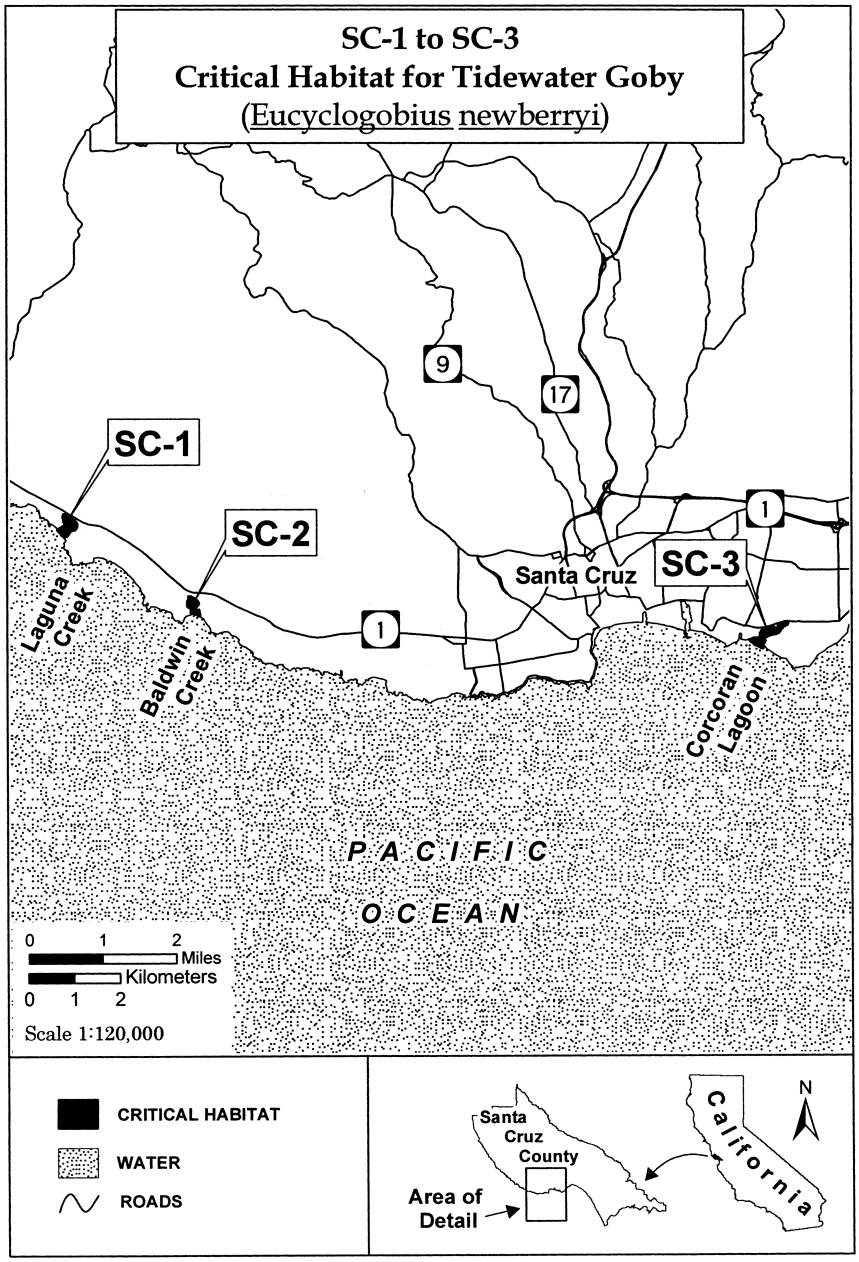
(i) From USGS 1:24,000 scale quadrangle Pigeon Point. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 552371, 4119927; 552402, 4119965; 552411, 4119992; 552409, 4120039; 552436, 4120046; 552446, 4120041; 552461, 4120039; 552483, 4120043; 552490, 4120040; 552498, 4120036; 552507, 4120016; 552533, 4120028; 552537, 4120034; 552560, 4120032; 552569, 4120040; 552589, 4120043; 552606, 4120035; 552637, 4119992; 552655, 4119973; 552683, 4120024; 552688, 4120146; 552701, 4120157; 552725, 4120160; 552741, 4120157; 552744, 4120134; 552741, 4120114; 552729, 4120090; 552723, 4119997; 552717, 4119970; 552724, 4119920; 552712, 4119843; 552702, 4119832; 552699, 4119819; 552690, 4119819; 552665, 4119838; 552657, 4119853; 552653, 4119871; 552624, 4119887; 552596, 4119949; 552581, 4119953; 552563, 4119975; 552548, 4120000; 552519, 4119990; 552522, 4119981; 552529, 4119976; 552532, 4119967; 552532, 4119958; 552529, 4119953; 552507, 4119957; 552477, 4119953; 552450, 4119940; 552444, 4119914; 552440, 4119907; 552423, 4119907; 552413, 4119910; 552398, 4119928; 552390, 4119932; returning to 552371, 4119927.

(ii) *Note:* SM–3 included on map with unit SM–1.

(23) Unit SC–1; Santa Cruz County, California.

(i) From USGS 1:24,000 scale quadrangle Santa Cruz. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 575050, 4093349; 575122, 4093391; 575122, 4093392; 575142, 4093406; 575179, 4093428; 575186, 4093431; 575194, 4093426; 575207, 4093421; 575221, 4093430; 575228, 4093440; 575233, 4093453; 575226, 4093467; 575203, 4093491; 575189, 4093516; 575180, 4093533; 575177, 4093546; 575175, 4093575; 575172, 4093616; 575172, 4093657; 575174, 4093688; 575437, 4093542; 575447, 4093510; 575461, 4093501; 575468, 4093490; 575471, 4093482; 575471, 4093452; 575471, 4093430; 575469, 4093412; 575462, 4093384; 575451, 4093363; 575429, 4093350; 575408, 4093342; 575379, 4093334; 575356, 4093328; 575341, 4093320; 575330, 4093309; 575312, 4093295; 575303, 4093272; 575287, 4093241; 575274, 4093224; 575264, 4093209; 575251, 4093203; 575235, 4093206; 575231, 4093207; 575220, 4093204; 575213, 4093197; 575207, 4093172; 575189, 4093186; 575186, 4093200; 575167, 4093210; 575139, 4093240; 575068, 4093327; returning to 575050, 4093349.

(ii) *Note:* Map of Unit SC–1 follows.



(24) Unit SC–2; Santa Cruz County, California.

(i) From USGS 1:24,000 scale quadrangle Santa Cruz. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 577882, 4091692; 577882, 4091713; 577882, 4091737; 577886, 4091758; 577894, 4091784; 577904, 4091804; 577908, 4091830; 577906, 4091840; 577903, 4091858;

577905, 4091866; 577913, 4091867; 577922, 4091862; 577922, 4091865; 577927, 4091871; 577933, 4091876; 577958, 4091870; 577982, 4091859; 577997, 4091852; 578011, 4091846; 578028, 4091831; 578063, 4091813; 578083, 4091801; 578108, 4091775; 578122, 4091750; 578126, 4091742; 578129, 4091738; 578130, 4091726; 578126, 4091708; 578116, 4091686; 578103, 4091670; 578083, 4091655; 578068, 4091641; 578063, 4091620; 578073, 4091597; 578080, 4091577; 578083, 4091568; 578084, 4091569; 578087, 4091564; 578094, 4091561; 578105, 4091570; 578111, 4091578; 578117, 4091583; 578126, 4091580; 578137, 4091574; 578147, 4091568; 578143, 4091563; 578141, 4091553; 578141, 4091542; 578142, 4091530; 578147, 4091513; 578151, 4091504; 578159, 4091444; 578158, 4091445; 578076, 4091483; 577988, 4091509; 577974, 4091504; 577961, 4091520; 577961, 4091536; 577966, 4091552; 577968, 4091571; 577965, 4091588; 577956, 4091603; 577941, 4091617; 577923, 4091635; 577910, 4091641; 577896, 4091659; 577885, 4091673; returning to 577882, 4091692.

(ii) *Note:* SC–2 included on map with unit SC–1.

(25) Unit SC–3; Santa Cruz County, California.

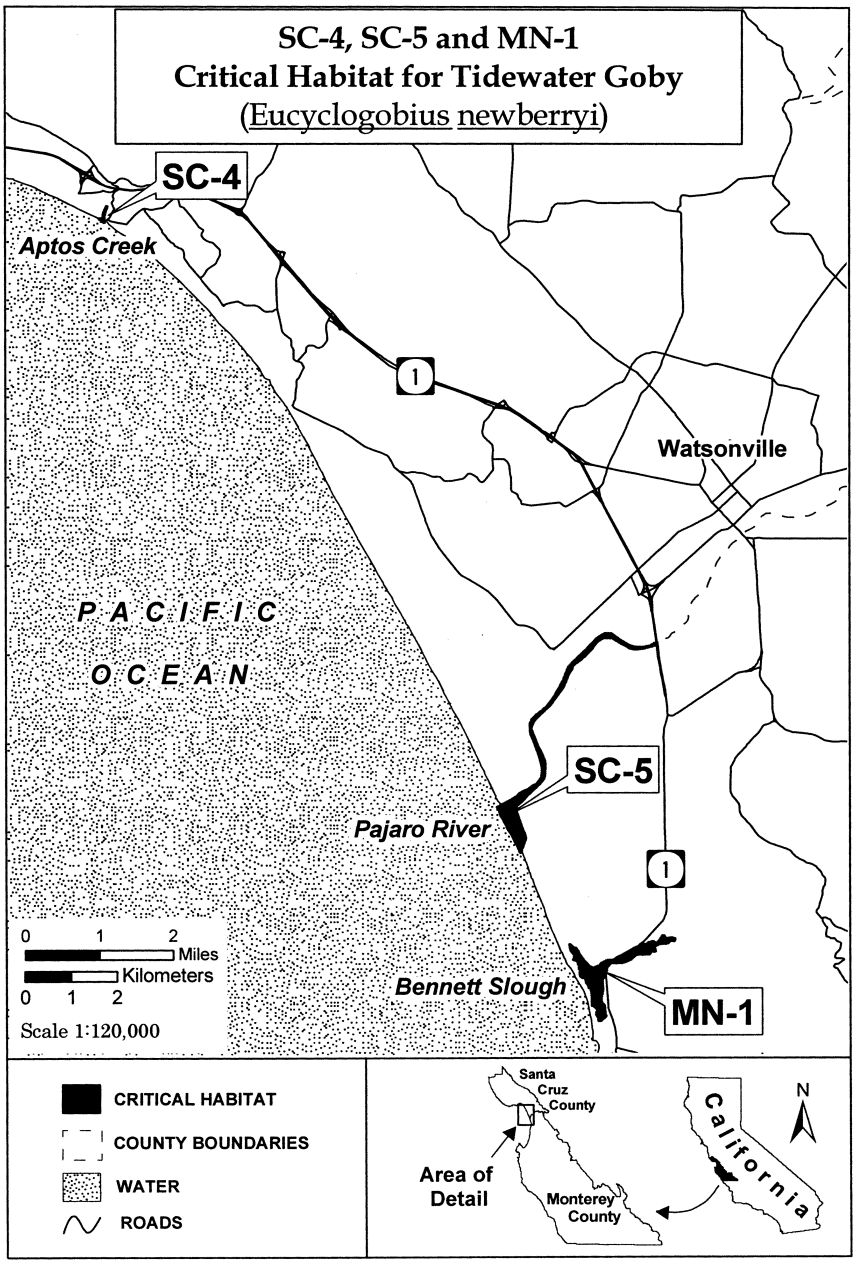
(i) From USGS 1:24,000 scale quadrangle Soquel. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 590179, 4090901; 590236, 4090929; 590236, 4090930; 590282, 4090945; 590313, 4090956; 590335, 4090952; 590350, 4090945; 590362, 4090937; 590375, 4090930; 590378, 4090927; 590380, 4090934; 590391, 4090956; 590400, 4090976; 590411, 4090978; 590412, 4090977; 590420, 4090993; 590424, 4091004; 590423, 4091011; 590425, 4091018; 590424, 4091018; 590423, 4091049; 590423, 4091065; 590425, 4091074; 590426, 4091079; 590429, 4091087; 590437, 4091096; 590448, 4091112; 590464, 4091125; 590480, 4091138; 590489, 4091143; 590497, 4091150; 590518, 4091158; 590549, 4091161; 590573, 4091153; 590581, 4091147; 590587, 4091146; 590601, 4091147; 590611, 4091146; 590620, 4091149; 590623, 4091152; 590629, 4091168; 590631, 4091183; 590643, 4091197; 590660, 4091205; 590683, 4091207; 590701, 4091194; 590718, 4091184; 590745, 4091164; 590763, 4091166; 590776, 4091162; 590791, 4091175; 590795, 4091180; 590800, 4091192; 590809, 4091208; 590817, 4091231; 590829, 4091245; 590855, 4091265; 590889, 4091279; 590909, 4091283; 590935, 4091291; 590950, 4091295; 590968, 4091298; 590984, 4091301; 591003, 4091304; 591012, 4091305; 591015, 4091305; 591021, 4091304; 591025, 4091302; 591027, 4091299; 591028, 4091294; 591027, 4091289; 591024, 4091284; 591018, 4091272; 591014, 4091260; 591005, 4091248; 590999, 4091240; 590990, 4091234; 590973, 4091227; 590957, 4091222; 590947, 4091218; 590938, 4091211; 590929, 4091206; 590919, 4091196; 590912, 4091188; 590905, 4091177; 590890, 4091164; 590878, 4091145; 590873, 4091136; 590865, 4091127; 590859, 4091118; 590854, 4091110; 590842, 4091096; 590836, 4091087; 590827, 4091080; 590819, 4091073; 590804, 4091062; 590794, 4091057; 590785, 4091053; 590755, 4091042; 590739, 4091039; 590719, 4091037; 590699, 4091033; 590672, 4091029; 590653, 4091024; 590636, 4091018; 590619, 4091011; 590604, 4091005; 590582, 4090991; 590566, 4090982; 590554, 4090977; 590542, 4090972; 590532, 4090972; 590524, 4090973; 590507, 4090980; 590496, 4090986; 590477, 4090999; 590468, 4091002; 590457, 4091003; 590446, 4091004; 590436, 4091010; 590428, 4091003; 590427, 4090993; 590425, 4090970; 590427, 4090970; 590460, 4090956; 590495, 4090941; 590530, 4090892; 590533, 4090873; 590502, 4090842; 590465, 4090818; 590459, 4090810; 590474, 4090794; 590480, 4090791; 590477, 4090718; 590430, 4090743; 590366, 4090776; 590323, 4090794; 590283, 4090828; 590242, 4090855; 590204, 4090874; returning to 590179, 4090901.

(ii) *Note:* SC–3 included on map with unit SC–1.

(26) Unit SC–4; Santa Cruz County, California.

(i) From USGS 1:24,000 scale quadrangle Soquel. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 597246, 4092023; 597317, 4092033; 597320, 4092041; 597331, 4092080; 597348, 4092134; 597363, 4092174; 597373, 4092199; 597378, 4092211; 597386, 4092225; 597396, 4092249; 597406, 4092262; 597412, 4092279; 597423, 4092294; 597429, 4092282; 597416, 4092251; 597402, 4092211; 597389, 4092165; 597381, 4092140; 597372, 4092109; 597361, 4092080; 597359, 4092059; 597359, 4092049; 597358, 4092042; 597360, 4092040; 597373, 4091945; 597351, 4091956; 597327, 4091965; 597310, 4091976; 597273, 4092007; returning to 597246, 4092023.

(ii) *Note:* Map of Unit SC–4 follows.



(27) Unit SC–5; Santa Cruz and Monterey Counties, California.

(i) From USGS 1:24,000 scale quadrangles Watsonville West and Moss Landing. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 605911, 4079111; 606162, 4079236; 606226, 4079281; 606361, 4079366; 606416, 4079419; 606517, 4079467; 606577, 4079500;

606717, 4079591; 606758, 4079610; 606799, 4079640; 606872, 4079760; 606899, 4079887; 606895, 4079983; 606875, 4080067; 606845, 4080174; 606820, 4080259; 606672, 4080641; 606643, 4080737; 606629, 4080919; 606631, 4080943; 606662, 4081020; 606737, 4081107; 606879, 4081225; 607000, 4081337; 607128, 4081485; 607218, 4081624; 607254, 4081690; 607346, 4081878; 607382, 4081974; 607445, 4082127; 607474, 4082175; 607528, 4082251; 607556, 4082275; 607765, 4082472; 607861, 4082567; 608079, 4082792; 608147, 4082847; 608282, 4082921; 608395, 4082922; 608595, 4082775; 608783, 4082658; 608883, 4082624; 609077, 4082620; 609255, 4082657; 609368, 4082708; 609375, 4082666; 609278, 4082633; 609137, 4082597; 608957, 4082582; 608884, 4082583; 608799, 4082604; 608730, 4082648; 608623, 4082704; 608418, 4082820; 608332, 4082826; 608241, 4082819; 608098, 4082739; 608020, 4082648; 607992, 4082604; 607858, 4082457; 607748, 4082360; 607606, 4082244; 607551, 4082207; 607554, 4082147; 607512, 4082084; 607476, 4082012; 607382, 4081813; 607334, 4081708; 607165, 4081477; 607075, 4081361; 607035, 4081316; 606828, 4081128; 606753, 4081051; 606698, 4080981; 606661, 4080886; 606657, 4080844; 606664, 4080807; 606743, 4080589; 606791, 4080489; 606893, 4080276; 606950, 4080145; 606963, 4080070; 606955, 4079974; 606947, 4079787; 606932, 4079740; 606900, 4079696; 606815, 4079589; 606672, 4079474; 606516, 4079318; 606445, 4079230; 606343, 4079151; 606304, 4079085; 606413, 4078742; 606426, 4078716; 606465, 4078622; 606499, 4078532; 606527, 4078444; 606525, 4078404; 606510, 4078342; 606420, 4078101; 606395, 4078140; 606354, 4078244; 606255, 4078416; 606218, 4078509; 606137, 4078641; 606080, 4078773; 605983, 4078937; 605936, 4079066; returning to 605911, 4079111.

(ii) *Note:* SC–5 included on map with unit SC–4.

(28) Unit MN–1; Monterey County, California.

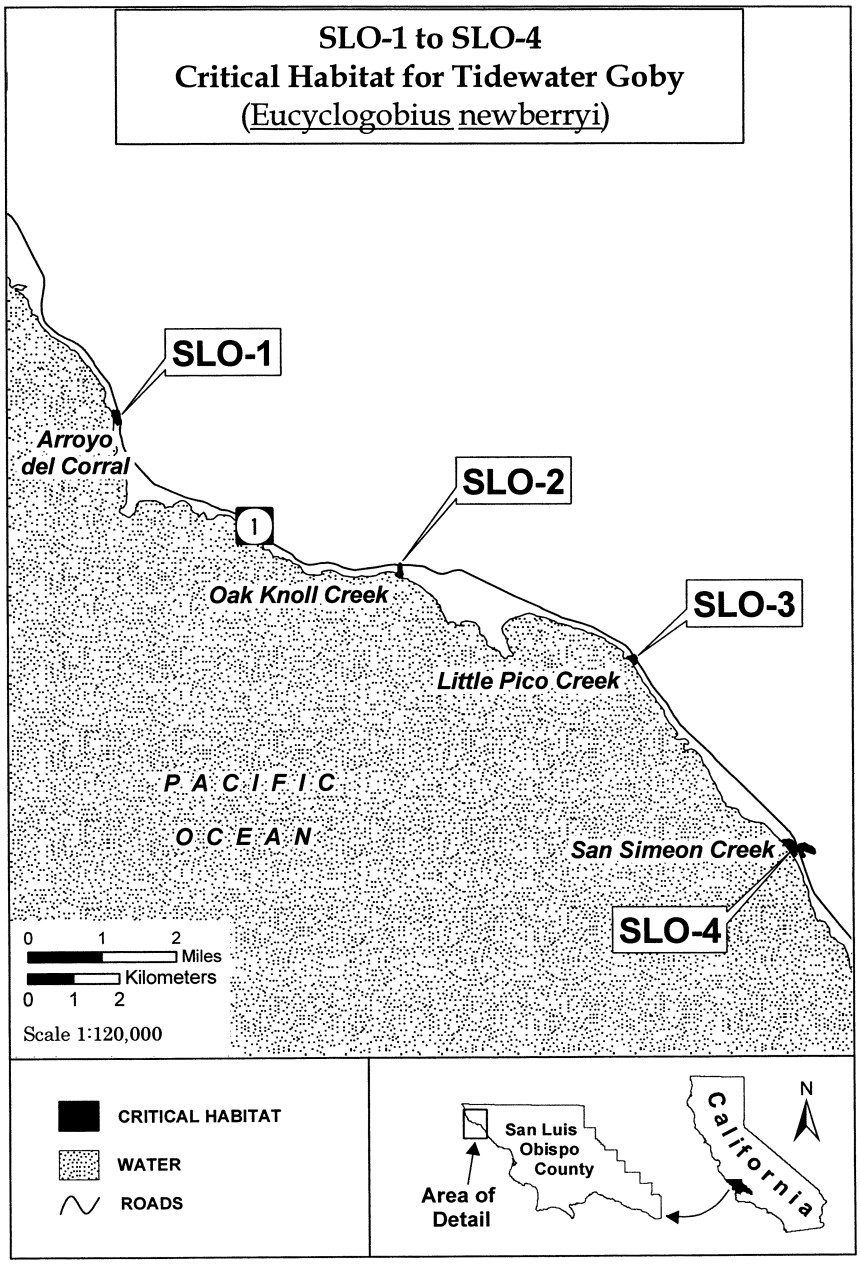
(i) From USGS 1:24,000 scale quadrangle Moss Landing. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 607479, 4076078; 607484, 4076090; 607498, 4076089; 607529, 4076051; 607548, 4076043; 607563, 4076019; 607614, 4076009; 607664, 4075939; 607690, 4075882; 607715, 4075845; 607729, 4075835; 607765, 4075780; 607782, 4075742; 607812, 4075704; 607871, 4075651; 607909, 4075602; 607954, 4075586; 607997, 4075559; 608003, 4075571; 608095, 4075612; 608137, 4075638; 608191, 4075683; 608295, 4075738; 608324, 4075749; 608380, 4075742; 608433, 4075743; 608480, 4075770; 608516, 4075767; 608595, 4075832; 608670, 4075851; 608730, 4075908; 608780, 4075917; 608883, 4075966; 608963, 4075985; 609014, 4076006; 609042, 4076037; 609037, 4076049; 609013, 4076060; 609044, 4076094; 609091, 4076103; 609112, 4076082; 609143, 4076090; 609157, 4076088; 609189, 4076107; 609209, 4076135; 609217, 4076139; 609244, 4076120; 609275, 4076145; 609305, 4076143; 609358, 4076120; 609383, 4076127; 609404, 4076121; 609432, 4076149; 609503, 4076272; 609517, 4076283; 609538, 4076279; 609555, 4076242; 609578, 4076223; 609706, 4076239; 609760, 4076224; 609779, 4076203; 609772, 4076170; 609753, 4076155; 609723, 4076168; 609685, 4076167; 609634, 4076122; 609612, 4076120; 609599, 4076111; 609506, 4076108; 609466, 4076097; 609458, 4076097; 609442, 4076119; 609421, 4076115; 609420, 4076100; 609370, 4076068; 609357, 4076066; 609330, 4076024; 609311, 4076009; 609343, 4075983; 609352, 4075945; 609253, 4075939; 609243, 4075925; 609243, 4075893; 609227, 4075876; 609161, 4075881; 609129, 4075874; 609059, 4075870; 609031, 4075875; 608941, 4075867; 608898, 4075846; 608822, 4075769; 608732, 4075714; 608647, 4075693; 608547, 4075694; 608506, 4075687; 608402, 4075693; 608353, 4075656; 608310, 4075612; 608290, 4075582; 608286, 4075529; 608272, 4075483; 608276, 4075466; 608265, 4075456; 608242, 4075392; 608231, 4075376; 608212, 4075371; 608190, 4075328; 608188, 4075271; 608202, 4075096; 608174, 4074988; 608165, 4074913; 608166, 4074872; 608185, 4074802; 608203, 4074780; 608226, 4074768; 608242, 4074744; 608258, 4074610; 608252, 4074570; 608269, 4074527; 608281, 4074517; 608171, 4074429; 608104, 4074419; 608100, 4074483; 608083, 4074522; 608056, 4074561; 608053, 4074583; 608078, 4074657; 608074, 4074686; 608032, 4074719; 607975, 4074748; 607977, 4074840; 607971, 4074920; 607954, 4075047; 607939, 4075108; 607952, 4075166; 607977, 4075198; 608060, 4075233; 608126, 4075235; 608142, 4075229; 608140, 4075250; 608116, 4075255; 608060, 4075248; 607991, 4075229; 607968, 4075216; 607945, 4075190; 607915, 4075141; 607899, 4075150; 607880, 4075203; 607852, 4075240; 607821, 4075335; 607810, 4075348; 607763, 4075361; 607751, 4075370; 607720, 4075398; 607707, 4075421; 607704, 4075490; 607715, 4075546; 607696, 4075565; 607696, 4075616; 607674, 4075642; 607667, 4075662; 607669, 4075707; 607619, 4075744; 607571, 4075762; 607582, 4075819; 607578, 4075867; 607549, 4075918; 607530, 4075928; 607502, 4075961; 607490, 4076020; 607493, 4076054; returning to 607479, 4076078.

(ii) *Note:* MN–1 included on map with unit SC–4.

(29) Unit SLO–1; San Luis Obispo County, California.

(i) From USGS 1:24,000 scale quadrangle Piedras Blancas. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 654950, 3950321; 654974, 3950315; 654982, 3950312; 654990, 3950310; 654996, 3950309; 654997, 3950309; 654998, 3950309; 654998, 3950310; 654999, 3950310; 655014, 3950305; 655018, 3950303; 655018, 3950310; 655014, 3950319; 655017, 3950328; 655026, 3950331; 655031, 3950331; 655039, 3950328; 655065, 3950249; 655066, 3950238; 655058, 3950233; 655048, 3950227; 655043, 3950217; 655042, 3950199; 655044, 3950183; 655048, 3950169; 655053, 3950162; 655057, 3950157; 655061, 3950151; 655065, 3950138; 655068, 3950128; 655076, 3950120; 655081, 3950111; 655081, 3950090; 655081, 3950083; 655068, 3950080; 655058, 3950077; 655052, 3950072; 655047, 3950069; 655041, 3950056; 655036, 3950067; 655032, 3950077; 655028, 3950090; 655025, 3950104; 655020, 3950111; 655020, 3950118; 655018, 3950124; 655018, 3950131; 655007, 3950129; 655006, 3950130; 655005, 3950130; 655004, 3950130; 655003, 3950130; 654997, 3950121; 654996, 3950121; 654996, 3950120; 654996, 3950115; 654994, 3950108; 654990, 3950103; 654990, 3950105; 654983, 3950122; 654985, 3950133; 654987, 3950145; 654985, 3950156; 654982, 3950192; 654978, 3950211; 654974, 3950231; 654973, 3950246; 654958, 3950299; returning to 654950, 3950321.

(ii) *Note:* Map of Unit SLO–1 follows.



(30) Unit SLO–2; San Luis Obispo County, California.

(i) From USGS 1:24,000 scale quadrangle San Simeon. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 661106, 3946736; 661136, 3946762; 661138, 3946761; 661154, 3946765; 661163, 3946776; 661162, 3946822; 661160, 3946859; 661160, 3946860; 661165, 3946889;

661168, 3946920; 661171, 3946938; 661172, 3946939; 661172, 3946940; 661173, 3946940; 661174, 3946940; 661175, 3946940; 661176, 3946940; 661176, 3946939; 661177, 3946939; 661177, 3946938; 661178, 3946946; 661187, 3946945; 661187, 3946940; 661190, 3946912; 661190, 3946884; 661192, 3946849; 661193, 3946836; 661194, 3946826; 661195, 3946809; 661200, 3946789; 661205, 3946777; 661207, 3946759; 661208, 3946746; 661205, 3946734; 661200, 3946728; 661198, 3946727; 661194, 3946723; 661191, 3946717; 661190, 3946711; 661193, 3946705; 661197, 3946699; 661197, 3946695; 661194, 3946690; 661195, 3946685; 661196, 3946682; 661182, 3946684; 661133, 3946718; returning to 661106, 3946736.

(ii) *Note:* SLO–2 included on map with unit SLO–1.

(31) Unit SLO–3; San Luis Obispo County, California.

(i) From USGS 1:24,000 scale quadrangle San Simeon. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 666127, 3944901; 666136, 3944903; 666152, 3944900; 666193, 3944908; 666235, 3944880; 666260, 3944893; 666263, 3944905; 666258, 3944930; 666258, 3944937; 666297, 3944877; 666294, 3944848; 666275, 3944773; 666254, 3944801; 666226, 3944828; 666172, 3944870; 666152, 3944892; returning to 666127, 3944901.

(ii) *Note:* SLO–3 included on map with unit SLO–1.

(32) Unit SLO–4; San Luis Obispo County, California.

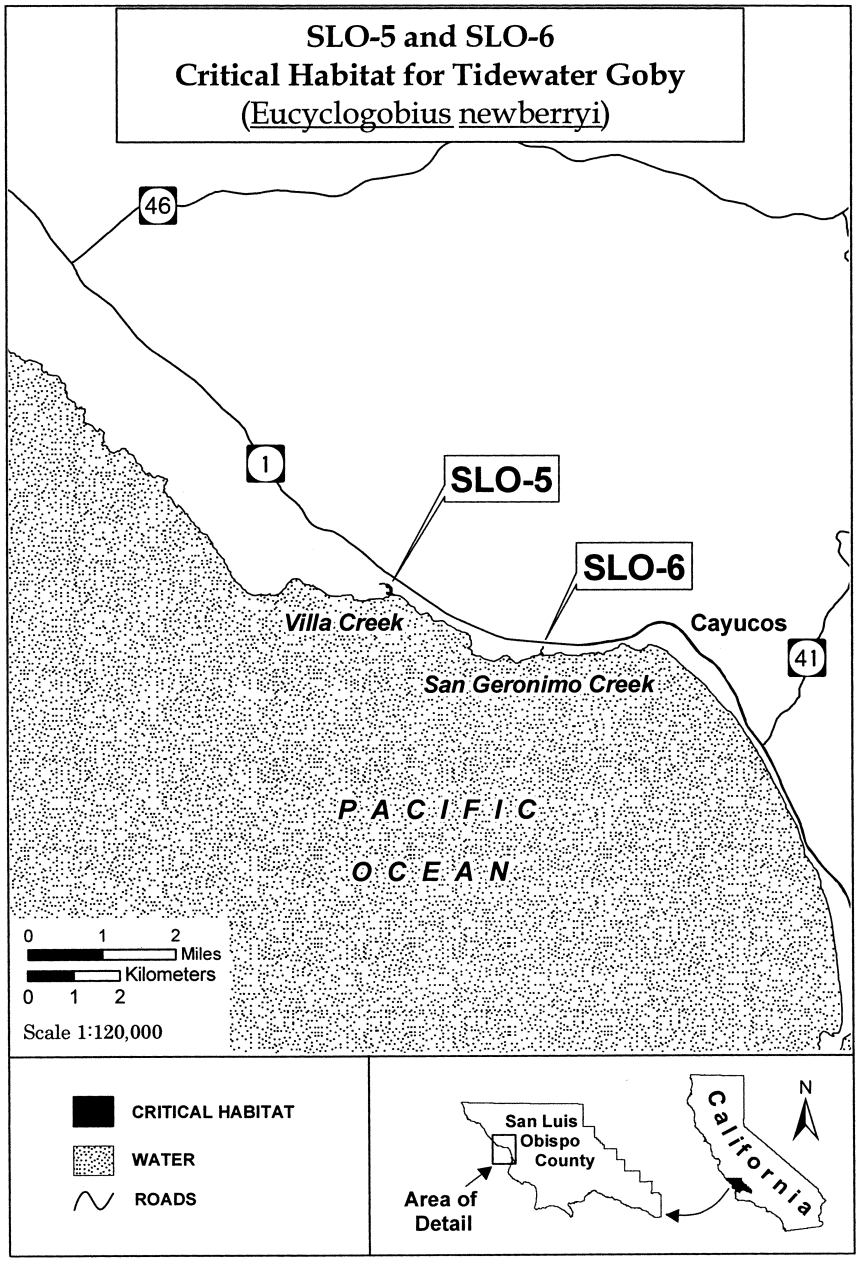
(i) From USGS 1:24,000 scale quadrangles Pico Creek and Cambria. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 669487, 3940858; 669537, 3940865; 669549, 3940860; 669550, 3940860; 669551, 3940861; 669551, 3940862; 669551, 3940863; 669558, 3940865; 669574, 3940868; 669596, 3940871; 669606, 3940872; 669615, 3940872; 669625, 3940869; 669635, 3940866; 669641, 3940863; 669648, 3940859; 669655, 3940853; 669662, 3940850; 669669, 3940846; 669676, 3940839; 669685, 3940832; 669694, 3940814; 669705, 3940798; 669720, 3940774; 669737, 3940755; 669748, 3940744; 669753, 3940740; 669756, 3940738; 669765, 3940735; 669776, 3940736; 669785, 3940735; 669801, 3940730; 669815, 3940738; 669819, 3940742; 669823, 3940747; 669826, 3940754; 669830, 3940758; 669836, 3940761; 669840, 3940764; 669847, 3940765; 669851, 3940765; 669859, 3940765; 669864, 3940767; 669868, 3940768; 669885, 3940776; 669895, 3940780; 669904, 3940778; 669916, 3940781; 669926, 3940784; 669937, 3940786; 669948, 3940784; 669958, 3940779; 669969, 3940773; 669980, 3940763; 669989, 3940756; 670000, 3940750; 670012, 3940746; 670031, 3940741; 670041, 3940734; 670052, 3940727; 670069, 3940719; 670090, 3940712; 670098, 3940704; 670107, 3940697; 670113, 3940691; 670118, 3940683; 670126, 3940676; 670135, 3940668; 670137, 3940659; 670136, 3940652; 670135, 3940646; 670140, 3940642; 670144, 3940636; 670147, 3940629; 670154, 3940620; 670152, 3940618; 670152, 3940616; 670151, 3940613; 670131, 3940620; 670120, 3940628; 670120, 3940629; 670112, 3940625; 670102, 3940623; 670082, 3940627; 670069, 3940637; 670060, 3940645; 670050, 3940648; 670042, 3940658; 670040, 3940667; 670031, 3940666; 670022, 3940657; 670005, 3940658; 669988, 3940665; 669979, 3940674; 669973, 3940681; 669965, 3940681; 669943, 3940680; 669929, 3940684; 669913, 3940680; 669904, 3940670; 669900, 3940657; 669894, 3940653; 669881, 3940659; 669872, 3940670; 669861, 3940680; 669853, 3940680; 669860, 3940645; 669865, 3940630; 669871, 3940615; 669882, 3940606; 669886, 3940598; 669885, 3940590; 669886, 3940583; 669894, 3940570; 669914, 3940559; 669928, 3940548; 669935, 3940540; 669933, 3940533; 669923, 3940536; 669916, 3940542; 669908, 3940546; 669898, 3940551; 669889, 3940557; 669879, 3940562; 669876, 3940568; 669871, 3940577; 669866, 3940594; 669865, 3940613; 669860, 3940628; 669854, 3940643; 669850, 3940659; 669844, 3940675; 669842, 3940680; 669842, 3940681; 669842, 3940682; 669842, 3940683; 669843, 3940684; 669838, 3940694; 669828, 3940703; 669819, 3940707; 669810, 3940703; 669809, 3940703; 669804, 3940697; 669800, 3940691; 669796, 3940683; 669779, 3940659; 669769, 3940648; 669753, 3940628; 669743, 3940614; 669743, 3940602; 669743, 3940595; 669745, 3940584; 669744, 3940577; 669743, 3940570; 669731, 3940561; 669705, 3940611; 669665, 3940672; 669651, 3940695; 669651, 3940696; 669640, 3940712; 669586, 3940765; 669537, 3940814; 669504, 3940842; returning to 669487, 3940858.

(ii) *Note:* SLO–4 included on map with unit SLO–1.

(33) Unit SLO–5; San Luis Obispo County, California.

(i) From USGS 1:24,000 scale quadrangle Cayucos. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 683953, 3926198; 683960, 3926205; 683980, 3926215; 683989, 3926218; 684058, 3926215; 684072, 3926209; 684105, 3926205; 684129, 3926198; 684168, 3926177; 684195, 3926145; 684206, 3926138; 684229, 3926116; 684237, 3926088; 684228, 3926074; 684232, 3926054; 684232, 3926033; 684224, 3926020; 684280, 3925950; 684232, 3925959; 684197, 3925958; 684178, 3925954; 684167, 3925958; 684135, 3925976; 684115, 3925983; 684106, 3925983; 684109, 3926014; 684123, 3926021; 684155, 3926025; 684180, 3926034; 684182, 3926053; 684170, 3926109; 684162, 3926125; 684124, 3926123; 684108, 3926128; 684097, 3926146; 684096, 3926185; 684062, 3926201; 684018, 3926207; 683993, 3926207; 683962, 3926192; returning to 683953, 3926198.

(ii) *Note:* Map of Unit SLO–5 follows.



(34) Unit SLO–6; San Luis Obispo County, California.

(i) From USGS 1:24,000 scale quadrangle Cayucos. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 687453, 3924653; 687454, 3924656; 687457, 3924661; 687465, 3924675; 687477, 3924685; 687487, 3924688; 687483, 3924691; 687479, 3924691; 687482, 3924700;

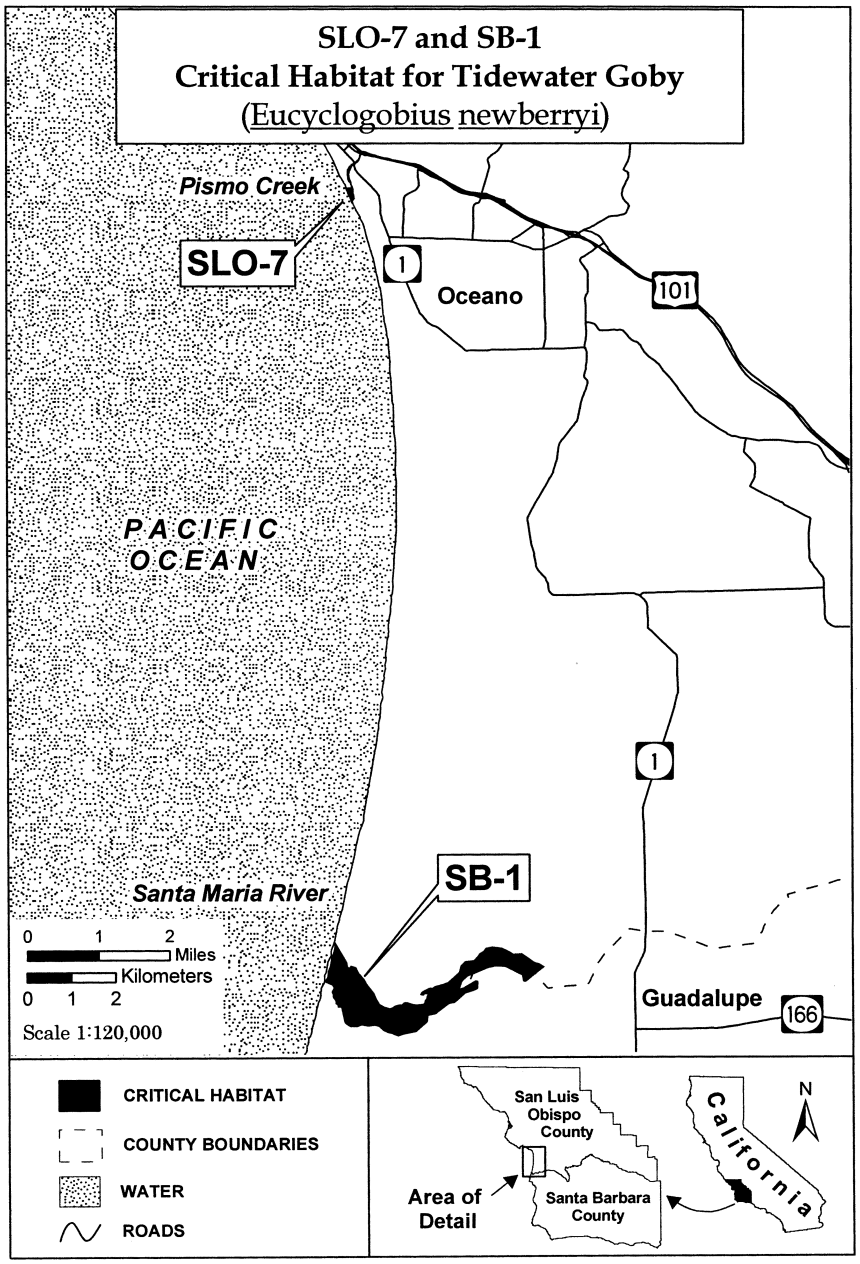
687481, 3924701; 687481, 3924702; 687480, 3924702; 687481, 3924703; 687478, 3924708; 687475, 3924719; 687473, 3924731; 687473, 3924738; 687474, 3924744; 687475, 3924745; 687476, 3924748; 687476, 3924749; 687484, 3924762; 687485, 3924762; 687490, 3924765; 687504, 3924774; 687517, 3924796; 687526, 3924818; 687527, 3924824; 687528, 3924826; 687529, 3924827; 687530, 3924828; 687531, 3924828; 687532, 3924827; 687533, 3924826; 687533, 3924825; 687533, 3924824; 687533, 3924823; 687532, 3924817; 687532, 3924816; 687522, 3924793; 687526, 3924794; 687530, 3924798; 687532, 3924805; 687534, 3924812; 687537, 3924813; 687536, 3924802; 687535, 3924794; 687535, 3924789; 687535, 3924785; 687532, 3924782; 687528, 3924784; 687525, 3924783; 687524, 3924778; 687522, 3924774; 687521, 3924770; 687519, 3924766; 687514, 3924765; 687509, 3924764; 687504, 3924761; 687500, 3924757; 687493, 3924753; 687484, 3924744; 687481, 3924741; 687480, 3924732; 687482, 3924723; 687485, 3924719; 687489, 3924715; 687494, 3924710; 687501, 3924707; 687506, 3924703; 687510, 3924698; 687513, 3924691; 687508, 3924690; 687503, 3924690; 687500, 3924689; 687510, 3924687; 687523, 3924678; 687531, 3924666; 687532, 3924663; 687533, 3924657; 687534, 3924651; 687534, 3924650; 687536, 3924646; 687536, 3924645; 687537, 3924643; 687534, 3924643; 687519, 3924641; 687499, 3924649; 687475, 3924655; 687456, 3924653; returning to 687453, 3924653.

(ii) *Note:* SLO–6 included on map with unit SLO–5.

(35) Unit SLO–7; San Luis Obispo County, California.

(i) From USGS 1:24,000 scale quadrangle Pismo Beach. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 714995, 3890262; 715095, 3890271; 715104, 3890261; 715109, 3890252; 715120, 3890240; 715127, 3890233; 715138, 3890227; 715149, 3890213; 715148, 3890223; 715145, 3890233; 715140, 3890238; 715136, 3890243; 715134, 3890254; 715132, 3890272; 715129, 3890286; 715125, 3890297; 715119, 3890324; 715116, 3890338; 715112, 3890351; 715108, 3890361; 715100, 3890375; 715095, 3890385; 715088, 3890392; 715082, 3890396; 715076, 3890399; 715069, 3890401; 715065, 3890405; 715061, 3890408; 715060, 3890415; 715058, 3890429; 715056, 3890444; 715053, 3890455; 715051, 3890473; 715048, 3890488; 715045, 3890504; 715042, 3890521; 715039, 3890539; 715035, 3890553; 715033, 3890566; 715032, 3890574; 715031, 3890588; 715031, 3890606; 715033, 3890623; 715033, 3890645; 715034, 3890667; 715041, 3890681; 715046, 3890692; 715055, 3890706; 715062, 3890722; 715067, 3890730; 715070, 3890736; 715074, 3890743; 715082, 3890752; 715093, 3890762; 715101, 3890768; 715119, 3890786; 715130, 3890799; 715145, 3890809; 715163, 3890821; 715178, 3890830; 715194, 3890837; 715205, 3890845; 715221, 3890859; 715236, 3890869; 715252, 3890885; 715262, 3890891; 715268, 3890896; 715276, 3890902; 715283, 3890912; 715289, 3890922; 715296, 3890932; 715305, 3890943; 715310, 3890953; 715317, 3890972; 715318, 3890984; 715319, 3891005; 715323, 3891027; 715326, 3891034; 715335, 3891032; 715336, 3891031; 715342, 3891028; 715347, 3891021; 715345, 3891004; 715340, 3890985; 715331, 3890962; 715321, 3890938; 715310, 3890916; 715296, 3890885; 715287, 3890864; 715277, 3890859; 715272, 3890854; 715258, 3890837; 715241, 3890825; 715232, 3890816; 715226, 3890810; 715212, 3890802; 715200, 3890802; 715186, 3890801; 715179, 3890795; 715169, 3890778; 715154, 3890761; 715142, 3890751; 715133, 3890737; 715127, 3890720; 715122, 3890708; 715117, 3890704; 715109, 3890684; 715103, 3890669; 715099, 3890654; 715092, 3890642; 715084, 3890623; 715080, 3890608; 715077, 3890585; 715075, 3890559; 715079, 3890539; 715083, 3890515; 715090, 3890484; 715097, 3890454; 715105, 3890425; 715111, 3890398; 715118, 3890380; 715129, 3890356; 715141, 3890327; 715153, 3890297; 715164, 3890254; 715170, 3890229; 715174, 3890208; 715177, 3890185; 715178, 3890165; 715176, 3890142; 715177, 3890130; 715176, 3890123; 715183, 3890106; 715187, 3890085; 715189, 3890067; 715193, 3890044; 715200, 3890028; 715137, 3889924; 715128, 3889946; 715121, 3889965; 715115, 3889981; 715110, 3889994; 715106, 3890007; 715102, 3890018; 715095, 3890036; 715090, 3890049; 715082, 3890067; 715076, 3890080; 715069, 3890095; 715062, 3890111; 715052, 3890126; 715044, 3890146; 715034, 3890166; 715029, 3890185; 715022, 3890203; 715013, 3890222; 715004, 3890241; returning to 714995, 3890262.

(ii) *Note:* Map of Unit SLO–7 follows.



(36) Unit SB–1; Santa Barbara County, California.

(i) From USGS 1:24,000 scale quadrangles Point Sal and Guadalupe. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 714486, 3872122; 714493, 3872165; 714530, 3872230; 714539, 3872329; 714554, 3872389; 714594, 3872480; 714613, 3872646; 714626, 3872708;

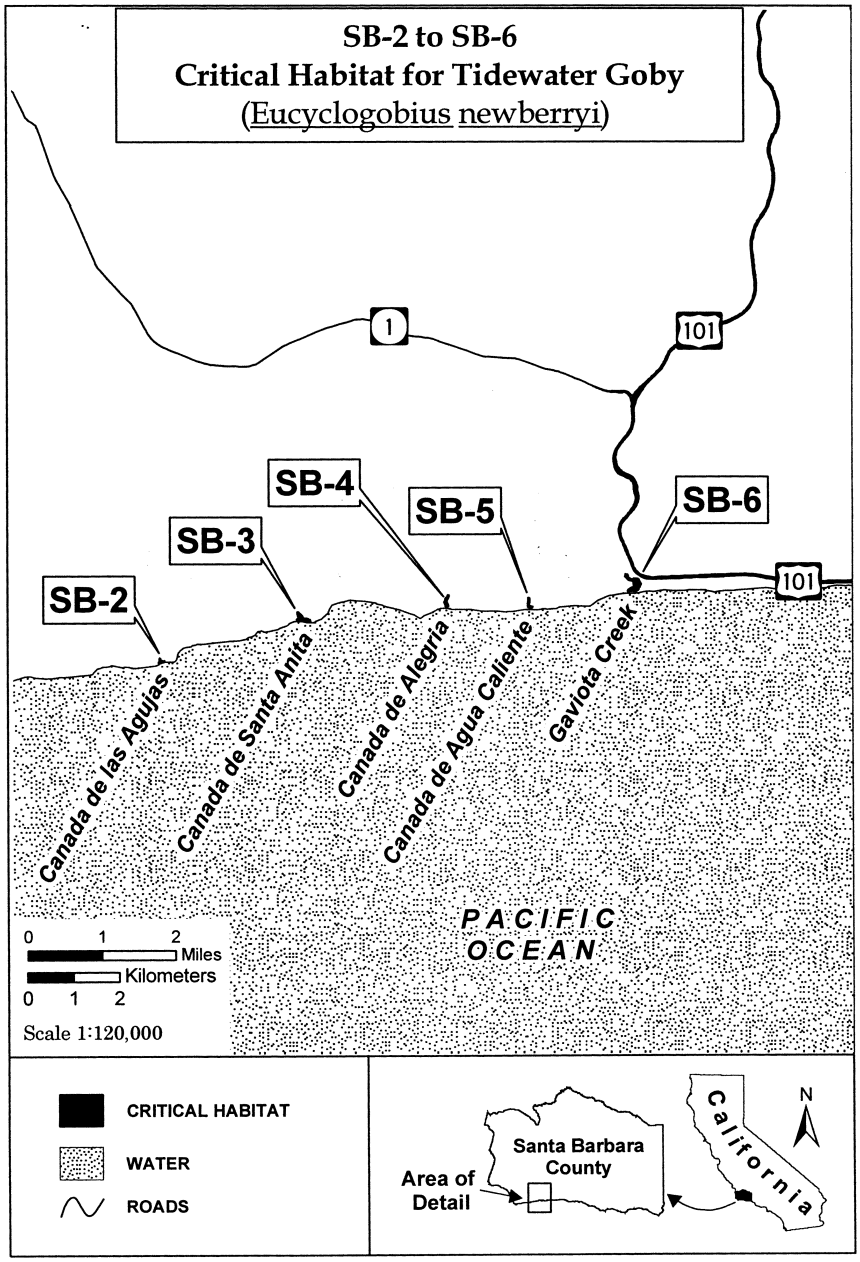
714651, 3872747; 714689, 3872903; 714703, 3873025; 714969, 3872560; 714988, 3872467; 715039, 3872436; 715055, 3872488; 715175, 3872451; 715237, 3872326; 715354, 3872192; 715434, 3872073; 715583, 3871865; 715637, 3871734; 715713, 3871614; 715807, 3871544; 715939, 3871505; 716019, 3871535; 716044, 3871566; 716102, 3871589; 716153, 3871603; 716222, 3871602; 716268, 3871649; 716299, 3871655; 716334, 3871652; 716452, 3871607; 716526, 3871594; 716558, 3871593; 716701, 3871615; 716807, 3871341; 716785, 3871204; 716542, 3870984; 716348, 3870951; 716245, 3870930; 716125, 3870887; 716029, 3870923; 715975, 3870952; 715899, 3870968; 715803, 3871010; 715682, 3871109; 715600, 3871122; 715455, 3871112; 715304, 3871140; 715197, 3871101; 715115, 3871098; 715046, 3871108; 714985, 3871140; 714935, 3871180; 714908, 3871224; 714839, 3871547; 714773, 3871548; 714762, 3871579; 714753, 3871608; 714720, 3871626; 714713, 3871685; 714656, 3871775; 714650, 3871830; 714624, 3871908; 714676, 3871989; 714646, 3872058; returning to 714486, 3872122.

(ii) *Note:* SB–1 included on map with unit SLO–7.

(37) Unit SB–2; Santa Barbara County, California.

(i) From USGS 1:24,000 scale quadrangle Point Conception. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 744289, 3816310; 744302, 3816318; 744310, 3816324; 744314, 3816329; 744320, 3816334; 744322, 3816336; 744326, 3816338; 744320, 3816343; 744314, 3816346; 744311, 3816351; 744310, 3816356; 744308, 3816361; 744308, 3816366; 744307, 3816371; 744306, 3816376; 744305, 3816383; 744304, 3816387; 744307, 3816387; 744312, 3816379; 744313, 3816373; 744314, 3816366; 744315, 3816359; 744315, 3816356; 744317, 3816352; 744320, 3816347; 744325, 3816346; 744330, 3816344; 744336, 3816342; 744339, 3816341; 744350, 3816340; 744358, 3816339; 744369, 3816340; 744373, 3816338; 744377, 3816336; 744383, 3816336; 744391, 3816337; 744397, 3816339; 744402, 3816338; 744407, 3816337; 744373, 3816328; 744350, 3816322; 744343, 3816320; 744335, 3816318; 744308, 3816313; 744298, 3816310; returning to 744289, 3816310.

(ii) *Note:* Map of Unit SB–2 follows.



(38) Unit SB–3; Santa Barbara County, California.

(i) From USGS 1:24,000 scale quadrangle Point Conception. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 747310, 3817233; 747358, 3817279; 747376, 3817283; 747396, 3817298; 747384, 3817307; 747357, 3817311; 747334, 3817326; 747324, 3817337; 747314,

3817372; 747318, 3817391; 747323, 3817394; 747338, 3817375; 747376, 3817348; 747386, 3817331; 747413, 3817305; 747435, 3817265; 747509, 3817255; 747522, 3817247; 747556, 3817236; 747588, 3817216; 747550, 3817228; 747506, 3817229; 747494, 3817235; 747346, 3817239; returning to 747310, 3817233.

(ii) *Note:* SB–3 included on map with unit SB–2.

(39) Unit SB–4; Santa Barbara County, California.

(i) From USGS 1:24,000 scale quadrangle Point Conception. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 750530, 3817616; 750546, 3817669; 750554, 3817688; 750582, 3817711; 750595, 3817736; 750602, 3817758; 750608, 3817758; 750598, 3817712; 750570, 3817678; 750570, 3817666; 750559, 3817649; 750559, 3817614; 750565, 3817606; 750567, 3817590; 750580, 3817583; 750585, 3817577; 750588, 3817572; 750582, 3817557; 750602, 3817534; 750563, 3817537; 750547, 3817533; 750553, 3817561; 750542, 3817580; 750540, 3817593; returning to 750530, 3817616.

(ii) *Note:* Unit SB–4 included on map with unit SB–2.

(40) Unit SB–5; Santa Barbara County, California.

(i) From USGS 1:24,000 scale quadrangle Point Conception. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 752340, 3817567; 752343, 3817589; 752347, 3817598; 752351, 3817624; 752351, 3817636; 752357, 3817675; 752353, 3817702; 752366, 3817705; 752370, 3817675; 752364, 3817634; 752364, 3817623; 752360, 3817595; 752353, 3817577; 752354, 3817544; 752362, 3817533; 752363, 3817528; 752366, 3817524; 752380, 3817515; 752388, 3817512; 752427, 3817506; 752442, 3817500; 752435, 3817500; 752388, 3817494; 752363, 3817498; 752345, 3817533; 752341, 3817543; returning to 752340, 3817567.

(ii) *Note:* SB–5 included on map with unit SB–2.

(41) Unit SB–6; Santa Barbara County, California.

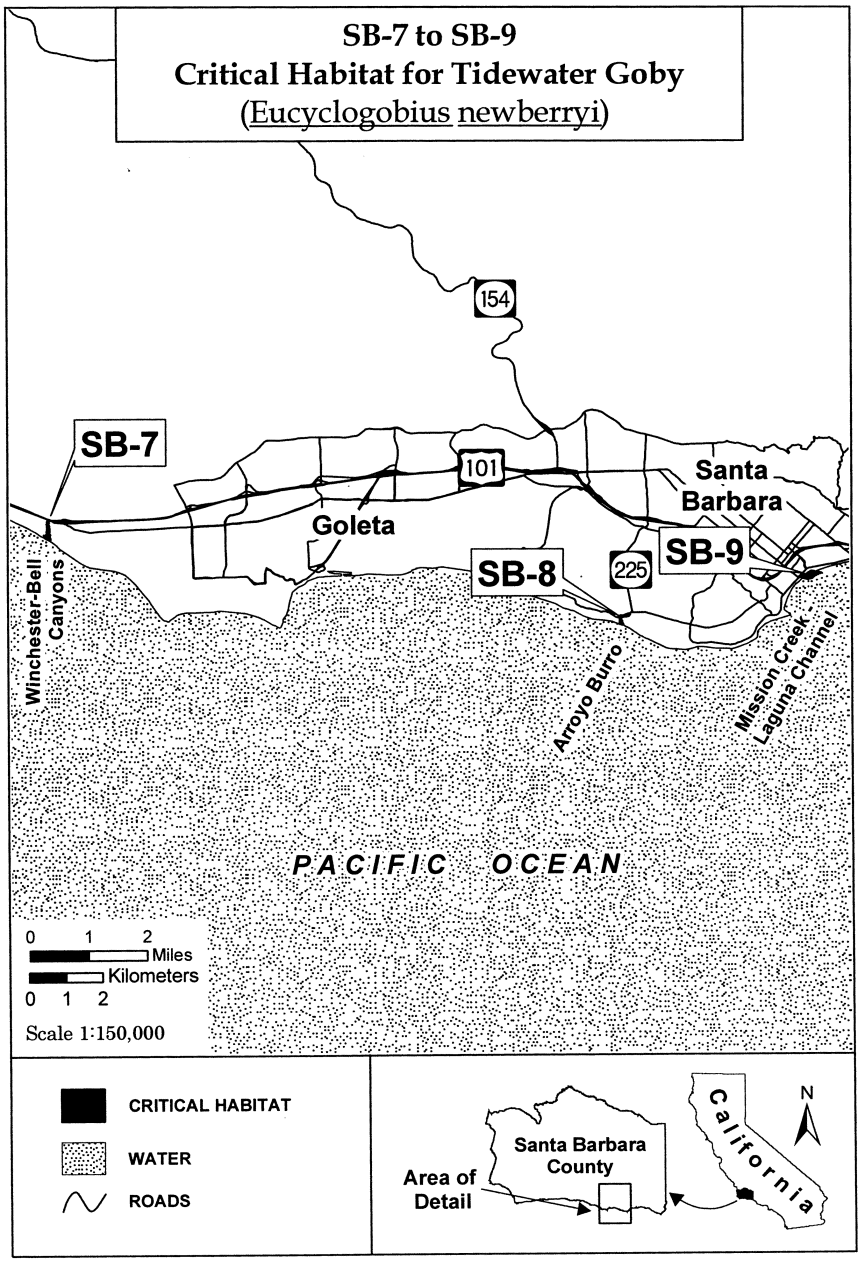
(i) From USGS 1:24,000 scale quadrangle Gaviota. Land bounded by the following UTM zone 10 NAD83 coordinates (E, N): 754473, 3818173; 754487, 3818216; 754512, 3818201; 754519, 3818189; 754526, 3818145; 754537, 3818130; 754567, 3818121; 754588, 3818106; 754643, 3818104; 754672, 3818114; 754733, 3818115; 754752, 3818107; 754778, 3818058; 754782, 3818039; 754797, 3818005; 754793, 3817977; 754787, 3817954; 754777, 3817948; 754768, 3817931; 754759, 3817922; 754756, 3817901; 754735, 3817880; 754733, 3817870; 754727, 3817868; 754718, 3817855; 754606, 3817863; 754568, 3817859; 754534, 3817850; 754531, 3817853; 754571, 3817881; 754575, 3817891; 754586, 3817901; 754597, 3817906; 754626, 3817916; 754643, 3817913; 754654, 3817916; 754687, 3817910; 754709, 3817914; 754707, 3817922; 754727, 3817941; 754703, 3817949; 754680, 3817949; 754669, 3817954; 754665, 3817960; 754666, 3817978; 754657, 3817995; 754655, 3818033; 754643, 3818075; 754629, 3818079; 754624, 3818085; 754625, 3818089; 754618, 3818091; 754564, 3818094; 754541, 3818104; 754479, 3818161; 754480, 3818169; returning to 754473, 3818173.

(ii) *Note:* Unit SB–6 included on map with unit SB–2.

(42) Unit SB–7; Santa Barbara County, California.

(i) From USGS 1:24,000 scale quadrangle Dos Pueblos Canyon. Land bounded by the following UTM zone 11 NAD83 coordinates (E, N): 232224, 3813614; 232337, 3813596; 232345, 3813600; 232348, 3813614; 232342, 3813631; 232314, 3813641; 232303, 3813652; 232297, 3813683; 232307, 3813732; 232313, 3813743; 232321, 3813769; 232323, 3813789; 232318, 3813850; 232320, 3813928; 232340, 3813983; 232370, 3813973; 232363, 3813947; 232346, 3813948; 232329, 3813927; 232329, 3813905; 232339, 3813898; 232350, 3813875; 232355, 3813835; 232366, 3813794; 232370, 3813748; 232359, 3813698; 232353, 3813689; 232345, 3813688; 232363, 3813651; 232357, 3813646; 232363, 3813625; 232373, 3813614; 232373, 3813605; 232360, 3813572; 232383, 3813490; 232287, 3813570; returning to 232224, 3813614.

(ii) *Note:* Map of Unit SB–7 follows.



(43) Unit SB–8; Santa Barbara County, California.

(i) From USGS 1:24,000 scale quadrangle Santa Barbara. Land bounded by the following UTM zone 11 NAD83 coordinates (E, N): 247839, 3810209; 247844, 3810255; 247848, 3810256; 247841, 3810295; 247851, 3810332; 247867, 3810357; 247884, 3810364; 247967, 3810388; 247988,

3810390; 248001, 3810387; 248032, 3810399; 248051, 3810400; 248079, 3810406; 248097, 3810417; 248108, 3810428; 248117, 3810441; 248118, 3810451; 248124, 3810453; 248122, 3810439; 248113, 3810425; 248100, 3810412; 248082, 3810401; 248068, 3810396; 248033, 3810393; 248002, 3810381; 247988, 3810384; 247969, 3810383; 247885, 3810357; 247877, 3810347; 247868, 3810332; 247876, 3810282; 247893, 3810265; 247900, 3810237; 247897, 3810226; 247933, 3810166; returning to 247839, 3810209.

(ii) *Note:* SB–8 included on map with unit SB–7.

(44) Unit SB–9; Santa Barbara County, California.

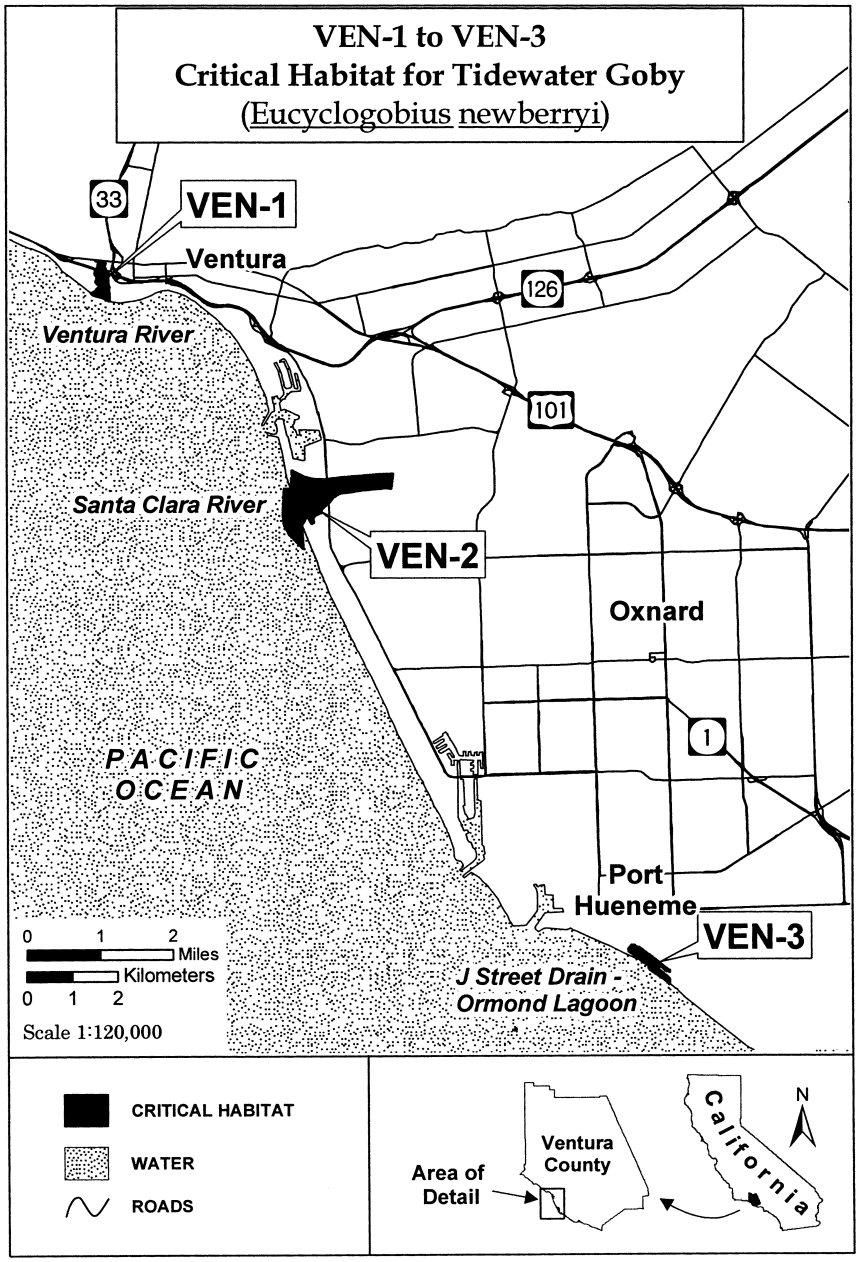
(i) From USGS 1:24,000 scale quadrangle Santa Barbara. Land bounded by the following UTM zone 11 NAD83 coordinates (E, N): 252846, 3811168; 252864, 3811187; 252923, 3811193; 252975, 3811204; 253049, 3811235; 253166, 3811297; 253182, 3811299; 253183, 3811277; 253187, 3811278; 253202, 3811303; 253199, 3811317; 253207, 3811319; 253209, 3811311; 253445, 3811254; 253412, 3811247; 253337, 3811217; 253311, 3811202; 253275, 3811190; 253256, 3811174; 253236, 3811170; 253226, 3811163; 253219, 3811147; 253195, 3811137; 253122, 3811115; 253088, 3811099; 252918, 3811155; 252928, 3811169; 252923, 3811172; 252908, 3811174; returning to 252846, 3811168.

(ii) *Note:* Unit SB–9 included on map with unit SB–7.

(45) Unit VEN–1; Ventura County, California.

(i) From USGS 1:24,000 scale quadrangle Ventura. Land bounded by the following UTM zone 11 NAD83 coordinates (E, N): 287223, 3795128; 287297, 3795133; 287329, 3795156; 287356, 3795190; 287377, 3795209; 287407, 3795228; 287424, 3795254; 287428, 3795275; 287423, 3795289; 287371, 3795326; 287361, 3795337; 287356, 3795349; 287354, 3795362; 287365, 3795411; 287383, 3795461; 287376, 3795489; 287364, 3795493; 287349, 3795520; 287341, 3795563; 287347, 3795595; 287357, 3795620; 287385, 3795609; 287392, 3795618; 287391, 3795629; 287398, 3795650; 287405, 3795682; 287419, 3795720; 287424, 3795745; 287423, 3795766; 287442, 3795795; 287436, 3795813; 287435, 3795806; 287423, 3795804; 287419, 3795818; 287379, 3795831; 287372, 3795843; 287571, 3795810; 287572, 3795798; 287586, 3795788; 287590, 3795779; 287581, 3795765; 287580, 3795748; 287569, 3795726; 287556, 3795683; 287576, 3795664; 287578, 3795617; 287588, 3795605; 287602, 3795595; 287634, 3795581; 287634, 3795510; 287632, 3795455; 287626, 3795410; 287625, 3795362; 287618, 3795309; 287632, 3795287; 287630, 3795263; 287632, 3795216; 287627, 3795163; 287626, 3795106; 287622, 3795028; 287625, 3794917; 287577, 3794954; 287470, 3795013; 287404, 3795023; 287293, 3795067; returning to 287223, 3795128.

(ii) *Note:* Map of Unit VEN–1 follows.



(46) Unit VEN–2; Ventura County, California.

(i) From USGS 1:24,000 scale quadrangle Oxnard. Land bounded by the following UTM zone 11 NAD83 coordinates (E, N): 291159, 3789957; 291223, 3790506; 291369, 3790503; 291384, 3790685; 291387, 3790730; 291415, 3790767; 291412, 3790821; 291419, 3790906; 291669, 3790758; 291809,

3790713; 291890, 3790691; 291995, 3790673; 292105, 3790669; 292514, 3790691; 292880, 3790694; 293336, 3790700; 293629, 3790695; 293448, 3790404; 292910, 3790378; 292682, 3790364; 292456, 3790341; 292380, 3790320; 292284, 3790262; 292160, 3790123; 292097, 3790078; 292034, 3790039; 292005, 3789999; 291995, 3789923; 291937, 3789922; 291862, 3789890; 291823, 3789847; 291809, 3789796; 291814, 3789722; 291781, 3789705; 291689, 3789886; 291558, 3789684; 291564, 3789160; 291272, 3789495; 291176, 3789721; returning to 291159, 3789957.

(ii) *Note:* Unit VEN–2 included on map with unit VEN–1.

(47) Unit VEN–3; Ventura County, California.

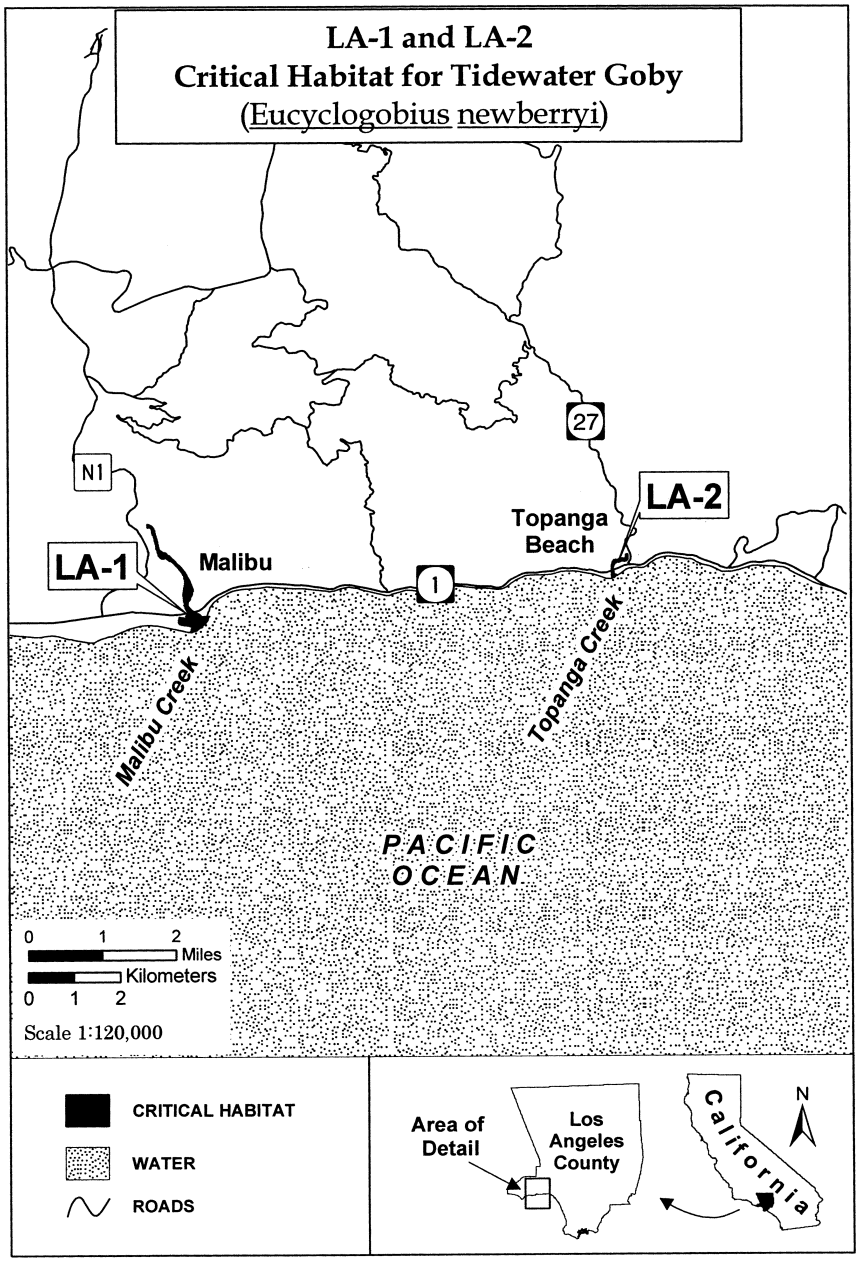
(i) From USGS 1:24,000 scale quadrangle Oxnard. Land bounded by the following UTM zone 11 NAD83 coordinates (E, N): 298163, 3779838; 298231, 3779920; 298245, 3779905; 298274, 3779893; 298310, 3779870; 298354, 3779843; 298335, 3779822; 298379, 3779795; 298443, 3779754; 298494, 3779730; 298528, 3779695; 298555, 3779675; 298592, 3779644; 298678, 3779570; 298699, 3779579; 298578, 3779686; 298385, 3779845; 298325, 3779874; 298289, 3779897; 298267, 3779918; 298269, 3779922; 298290, 3779914; 298338, 3779882; 298379, 3779865; 298393, 3779856; 298562, 3779713; 298614, 3779669; 298798, 3779514; 298880, 3779430; 299009, 3779320; 299029, 3779318; 299028, 3779279; 299001, 3779300; 298958, 3779309; 298863, 3779394; 298792, 3779416; 298790, 3779357; 299022, 3779125; 299018, 3779003; 298939, 3779085; 298884, 3779132; 298659, 3779308; 298603, 3779365; 298638, 3779430; 298164, 3779790; returning to 298163, 3779838.

(ii) *Note:* Unit VEN–3 included on map with unit VEN–1.

(48) Unit LA–1; Los Angeles County, California.

(i) From USGS 1:24,000 scale quadrangle Malibu Beach. Land bounded by the following UTM zone 11 NAD83 coordinates (E, N): 343854, 3769197; 343855, 3769238; 343878, 3769230; 343927, 3769201; 343954, 3769178; 343968, 3769157; 343970, 3769141; 343966, 3769111; 343979, 3769096; 343980, 3769072; 344025, 3768898; 344034, 3768802; 344047, 3768729; 344054, 3768697; 344071, 3768661; 344079, 3768650; 344134, 3768608; 344162, 3768595; 344209, 3768580; 344224, 3768555; 344259, 3768529; 344278, 3768520; 344300, 3768489; 344324, 3768469; 344335, 3768450; 344393, 3768395; 344431, 3768343; 344499, 3768273; 344516, 3768245; 344552, 3768200; 344595, 3768138; 344644, 3768041; 344671, 3767978; 344710, 3767877; 344715, 3767848; 344735, 3767804; 344738, 3767775; 344745, 3767750; 344727, 3767736; 344724, 3767686; 344715, 3767665; 344675, 3767601; 344657, 3767564; 344613, 3767516; 344605, 3767490; 344605, 3767470; 344606, 3767425; 344613, 3767401; 344663, 3767338; 344688, 3767314; 344709, 3767297; 344732, 3767260; 344754, 3767249; 344787, 3767242; 344795, 3767231; 344811, 3767219; 344835, 3767224; 344861, 3767204; 344868, 3767186; 344886, 3767171; 344912, 3767158; 345030, 3767154; 345032, 3767118; 345025, 3767101; 344993, 3767067; 344983, 3767048; 344967, 3767027; 344926, 3766990; 344900, 3766951; 344815, 3766930; 344784, 3766918; 344753, 3766885; 344670, 3766849; 344660, 3766846; 344681, 3766899; 344724, 3766933; 344722, 3766964; 344680, 3766974; 344629, 3767002; 344606, 3767012; 344589, 3767003; 344548, 3767011; 344503, 3767018; 344449, 3767035; 344427, 3767050; 344414, 3767071; 344417, 3767121; 344431, 3767168; 344492, 3767156; 344536, 3767136; 344562, 3767136; 344597, 3767140; 344607, 3767146; 344581, 3767201; 344587, 3767205; 344612, 3767184; 344640, 3767179; 344650, 3767181; 344639, 3767234; 344617, 3767298; 344596, 3767334; 344579, 3767376; 344563, 3767443; 344567, 3767500; 344565, 3767521; 344556, 3767534; 344551, 3767568; 344554, 3767606; 344549, 3767633; 344545, 3767683; 344557, 3767730; 344577, 3767833; 344594, 3767899; 344599, 3767949; 344599, 3767985; 344592, 3768023; 344593, 3768082; 344574, 3768100; 344545, 3768164; 344527, 3768194; 344497, 3768232; 344481, 3768259; 344413, 3768328; 344375, 3768381; 344352, 3768405; 344310, 3768439; 344301, 3768439; 344276, 3768447; 344250, 3768468; 344220, 3768505; 344210, 3768511; 344198, 3768511; 344169, 3768497; 344152, 3768492; 344122, 3768500; 344105, 3768509; 344062, 3768572; 344040, 3768628; 344043, 3768668; 344032, 3768690; 344028, 3768708; 344011, 3768799; 344002, 3768895; 343975, 3768996; 343956, 3769033; 343941, 3769077; 343946, 3769149; 343936, 3769163; 343914, 3769182; 343886, 3769197; 343863, 3769200; returning to 343854, 3769197.

(ii) *Note:* Map of Unit LA–1 follows.



(49) Unit LA–2; Los Angeles County, California.

(i) From USGS 1:24,000 scale quadrangle Topanga. Land bounded by the following UTM zone 11 NAD83 coordinates (E, N): 353851, 3767575; 353859, 3767610; 353860, 3767654; 353855, 3767659; 353856, 3767672; 353860, 3767720; 353880, 3767768; 353908, 3767818; 353919, 3767829;

353921, 3767837; 353942, 3767845; 354016, 3767844; 354041, 3767856; 354080, 3767864; 354109, 3767861; 354127, 3767851; 354139, 3767850; 354166, 3767854; 354179, 3767883; 354179, 3767917; 354187, 3767930; 354186, 3767938; 354203, 3767945; 354205, 3767873; 354198, 3767851; 354181, 3767831; 354156, 3767825; 354134, 3767824; 354088, 3767836; 354071, 3767836; 354051, 3767831; 354024, 3767819; 353969, 3767820; 353945, 3767792; 353933, 3767786; 353918, 3767769; 353904, 3767745; 353894, 3767733; 353876, 3767699; 353873, 3767653; 353875, 3767609; 353881, 3767598; 353879, 3767586; 353889, 3767512; 353906, 3767526; 353936, 3767510; 353887, 3767481; 353856, 3767475; 353856, 3767503; 353867, 3767505; 353862, 3767528; 353856, 3767538; 353857, 3767554; returning to 353851, 3767575.

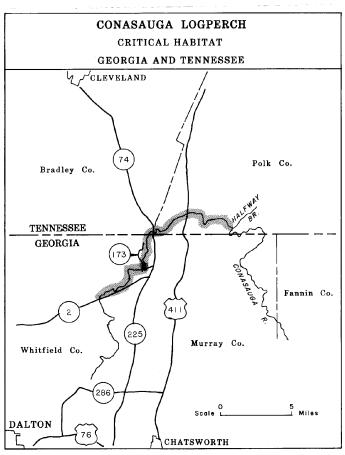
(ii) *Note:* Unit LA–2 included on map with unit LA–1.

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.

NOTE: Map follows:

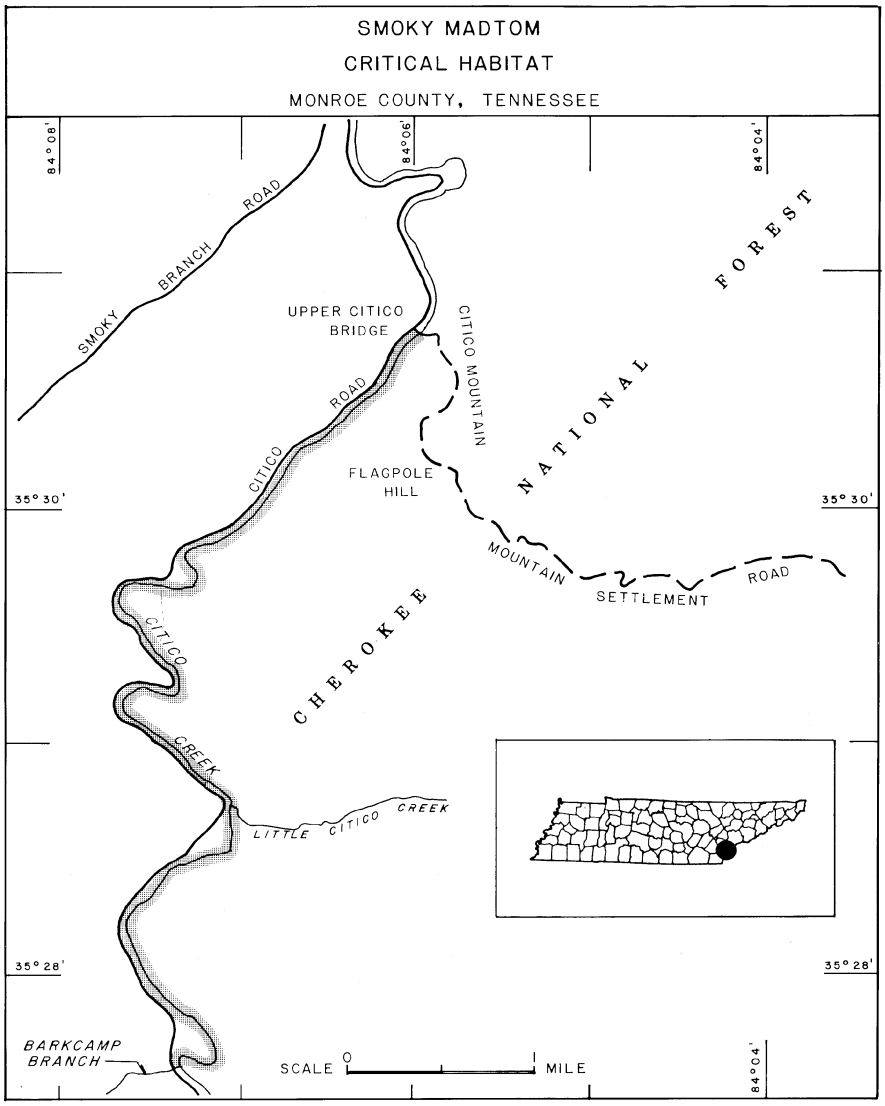


SMOKY MADTOM (*Noturus baileyi*)

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: Map follows:

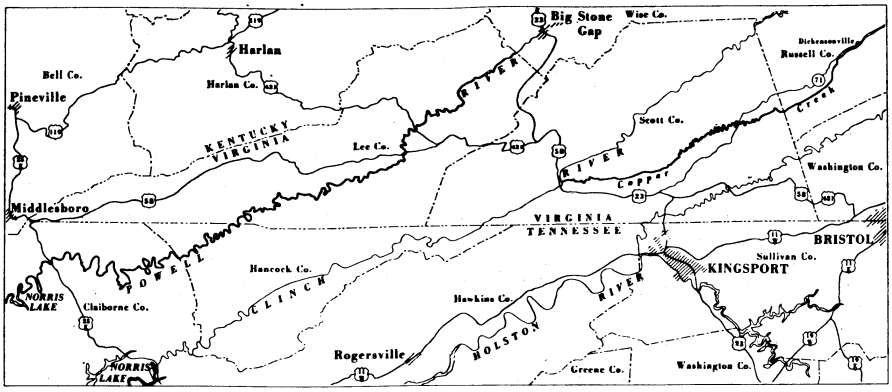


YELLOWFIN MADTOM (*Noturus flavipinnis*)

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: Map follows:



CRITICAL HABITAT FOR THE SLENDER CHUB

DEVILS RIVER MINNOW (*Dionda diaboli*)

(1) Critical habitat units are depicted for Val Verde County and Kinney County, Texas, on the maps below.

(2) The primary constituent elements of critical habitat for the Devils River minnow are the following habitat components:

(i) Streams characterized by:

(A) Areas with slow to moderate water velocities between 10 and 40 cm/second (4 and 16 in/second) in shallow to moderate water depths between approximately 10 cm (4 in) and 1.5 m (4.9 ft), near vegetative structure, such as emergent or submerged vegetation or stream bank riparian vegetation that overhangs into the water column;

(B) Gravel and cobble substrates ranging in diameter between 2 and 10 cm (0.8 and 4 in) with low or moderate amounts of fine sediment (less than 65 percent stream bottom coverage) and low or moderate amounts of substrate embeddedness; and

(C) Pool, riffle, run, and backwater components free of artificial instream structures that would prevent movement of fish upstream or downstream.

(ii) High-quality water provided by permanent, natural flows from groundwater spring and seeps characterized by:

(A) Temperature ranging between 17 °C and 29 °C (63 °F and 84 °F);

(B) Dissolved oxygen levels greater than 5.0 mg/l;

(C) Neutral pH ranging between 7.0 and 8.2;

(D) Conductivity less than 0.7 mS/cm and salinity less than 1 ppt;

(E) Ammonia levels less than 0.4 mg/l; and

(F) No or minimal pollutant levels for copper, arsenic, mercury, and cadmium; human and animal waste products; pesticides; fertilizers; suspended sediments; and petroleum compounds and gasoline or diesel fuels.

(iii) An abundant aquatic food base consisting of algae attached to stream substrates and other microorganisms associated with stream substrates.

(iv) Aquatic stream habitat either devoid of nonnative aquatic species (including fish, plants, and invertebrates) or in which such nonnative aquatic species are at levels that allow for healthy populations of Devils River minnows.

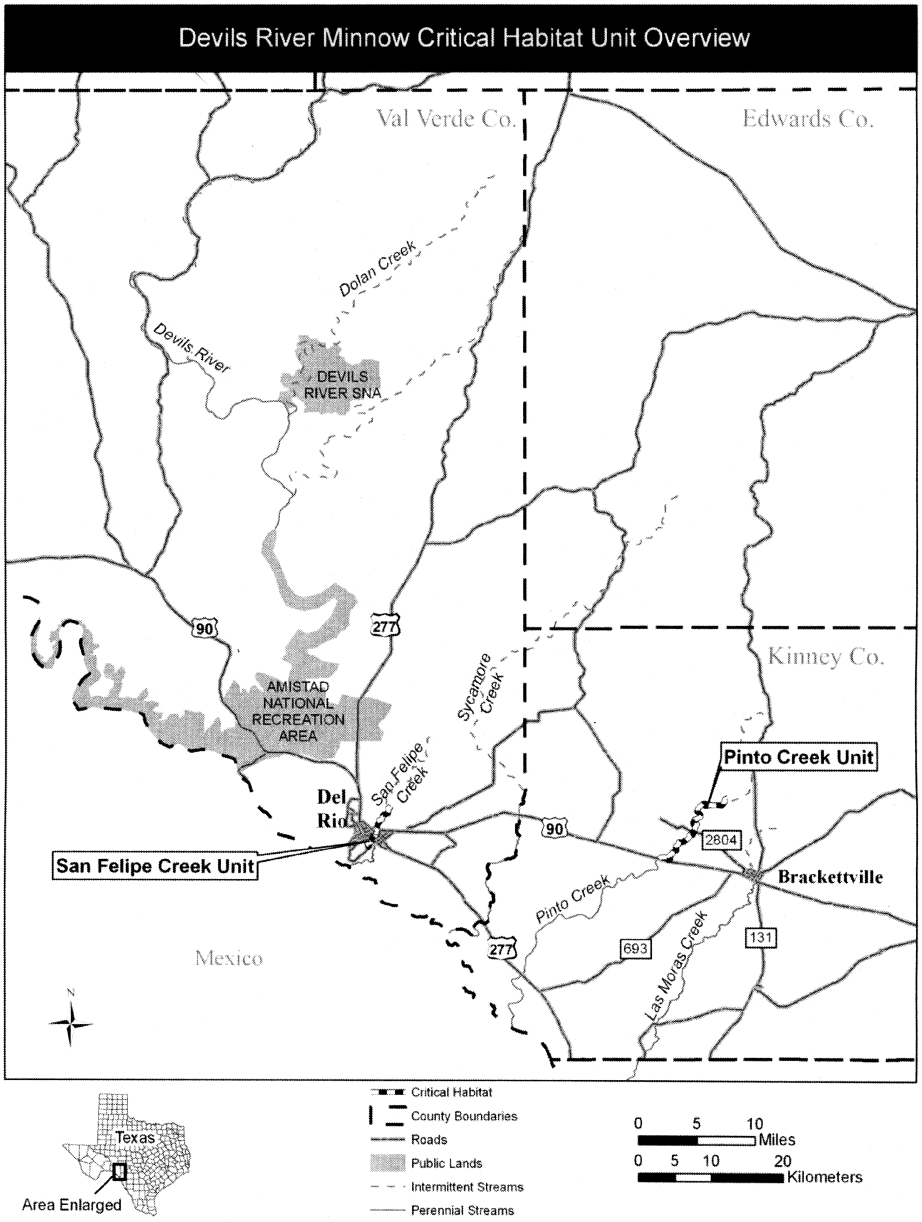
(v) Areas within stream courses that may be periodically dewatered for short time periods, during seasonal droughts, but otherwise serve as connective corridors between occupied or seasonally occupied areas through which the species moves when the area is wetted.

(3) Critical habitat does not include manmade structures (such as buildings, aqueducts, airports, roads, and other paved areas) and the land on which they are located existing on the effective date of this rule and not containing one or more of the primary constituent elements.

(4) *Critical habitat map units.* Data layers defining map units were created in ArcGIS using the National Hydrography Dataset and 7.5' topographic quadrangle maps obtained from U.S. Geological Survey to approximate stream channels and calculate distances (stream km and stream mi). We made some minor adjustments to stream channels using the 2004 National Agriculture Imagery Program digital orthophotos obtained from the Texas Natural Resources Information System. For each critical habitat unit, the upstream and downstream boundaries are described as paired geographic coordinates X, Y (meters E, meters N, UTM Zone 14, referenced to North American Horizontal Datum 1983). Additionally, critical habitat areas include the stream channels within the

identified stream reaches and areas within these reaches up to the bankfull width.

(5) Note: Index map of critical habitat units for the Devils River minnow follows:

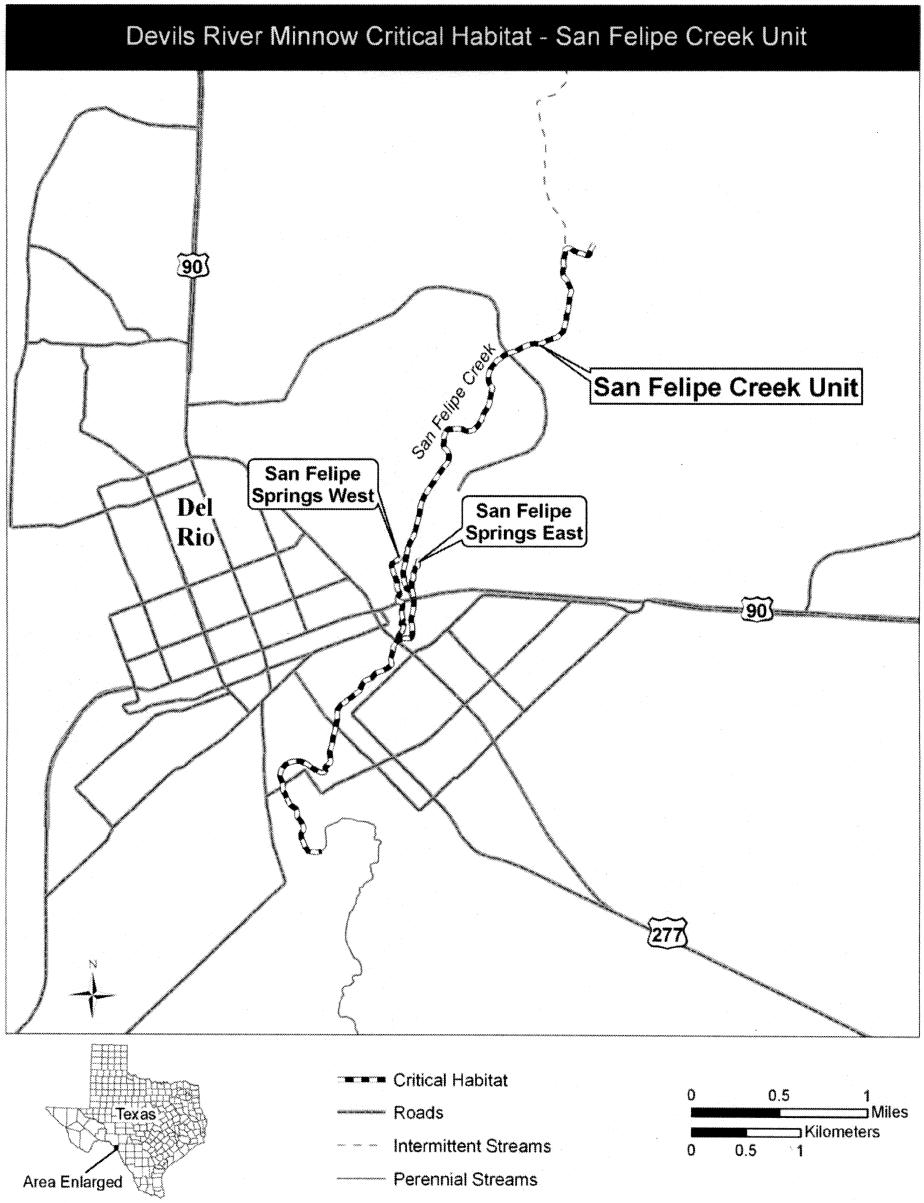


(6) Unit 2: San Felipe Creek, Val Verde County, Texas.

(i) Unit 2 consists of approximately 7.9 stream km (4.9 stream mi) on San Felipe

Creek, 0.8 stream km (0.5 stream mi) of the outflow of San Felipe Springs West, and 0.3 stream km (0.2 stream mi) of the outflow of San Felipe Springs East. The upstream boundary on San Felipe Creek is the Head Springs (UTM 318813E, 3253702N) located about 1.1 stream km (0.7 stream mi) upstream of the Jap Lowe Bridge crossing. The downstream boundary on San Felipe Creek is in the City of Del Rio 0.8 stream km (0.5 stream mi) downstream of the Academy Street Bridge crossing (UTM 316317E, 3248147N). This unit includes the outflow channels from the origin of the two springs, San Felipe Springs West (UTM 317039E, 3250850N) and San Felipe Springs East (UTM 317212E, 250825N), downstream to the confluence with San Felipe Creek. Including all three streams, the total distance in Unit 2 is approximately 9.0 stream km (5.6 stream mi).

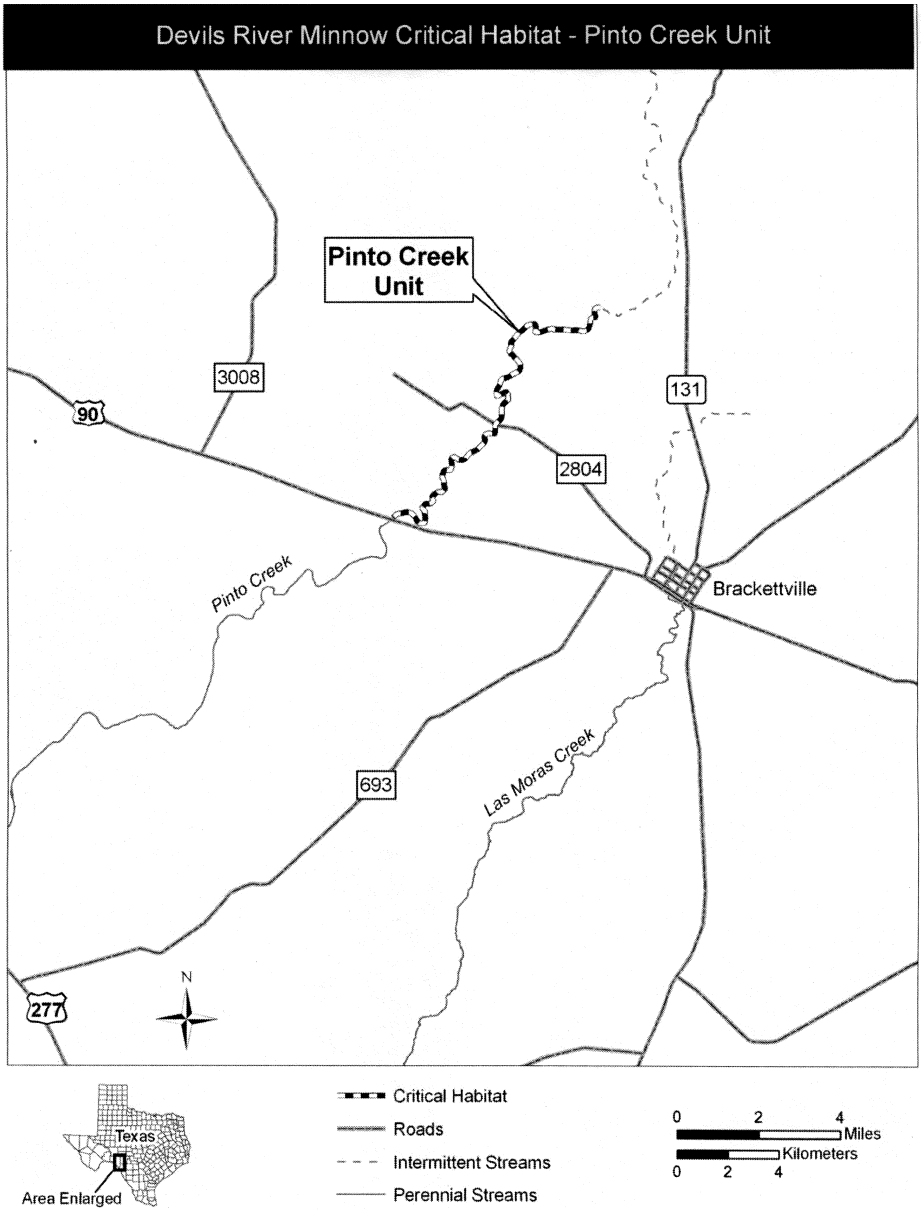
(ii) Note: Map of Unit 2, San Felipe Creek Unit, follows:



(7) Unit 3: Pinto Creek, Kinney County, Texas.

(i) Unit 3 consists of approximately 17.5 stream km (10.9 stream mi) on Pinto Creek. The upstream boundary is Pinto Springs (UTM 359372E, 3254422N). The downstream boundary is 100 m (330 ft) upstream of the Highway 90 Bridge crossing of Pinto Creek (UTM 351163E, 3246179N).

(ii) Note: Map of Unit 3, Pinto Creek Unit, follows:



LOACH MINNOW (TIAROGA COBITIS)

(1) Critical habitat units are depicted for Apache, Graham, Greenlee, and Pinal Counties, Arizona; and Catron, Grant, and Hidalgo Counties, New Mexico, on the maps and as described below.

(2) Within these areas, the primary constituent elements of critical habitat for loach minnow are the following:

(i) Permanent, flowing water with no or low levels of pollutants, including:

(A) Living areas for adult loach minnow with moderate to swift flow velocities between 9.0 to 32.0 in/second (24 to 80 cm/second) in shallow water between approximately 1.0 to 30 inches (3 cm to 75 cm) in depth, with gravel, cobble, and rubble substrates;

(B) Living areas for juvenile loach minnow with moderate to swift flow velocities between 1.0 and 34 in/second (3.0 and 85.0 cm/second) in shallow water between approximately 1.0 to 30 inches (3 cm to 75 cm) in depth with sand, gravel, cobble, and rubble substrates;

(C) Living areas for larval loach minnow with slow to moderate velocities between 3.0 and 20.0 in/second (9.0 to 50.0 cm/second) in shallow water with sand, gravel, and cobble substrates;

(D) Spawning areas with slow to swift flow velocities in shallow water where cobble and rubble and the spaces between them are not filled in by fine dirt or sand; and

(E) Water with dissolved oxygen levels greater than 3.5 cc/l and no or minimal pollutant levels for pollutants such as copper, arsenic, mercury, and cadmium; human and animal waste products; pesticides; suspended sediments; and gasoline or diesel fuels.

(ii) Sand, gravel, and cobble substrates with low or moderate amounts of fine sediment and substrate embeddedness. Suitable levels of embeddedness are generally maintained by a natural, unregulated hydrograph that allows for periodic flooding or, if flows are modified or regulated, a hydrograph that allows for adequate river functions, such as flows capable of transporting sediments.

(iii) Streams that have:

(A) Low gradients of less than approximately 2.5 percent;

(B) Water temperatures in the approximate range of 35 to 86 °F (1.7 to 30.0 °C) (with additional natural daily and seasonal variation);

(C) Pool, riffle, run, and backwater components; and

(D) An abundant aquatic insect food base consisting of mayflies, true flies, black flies, caddisflies, stoneflies, and dragonflies.

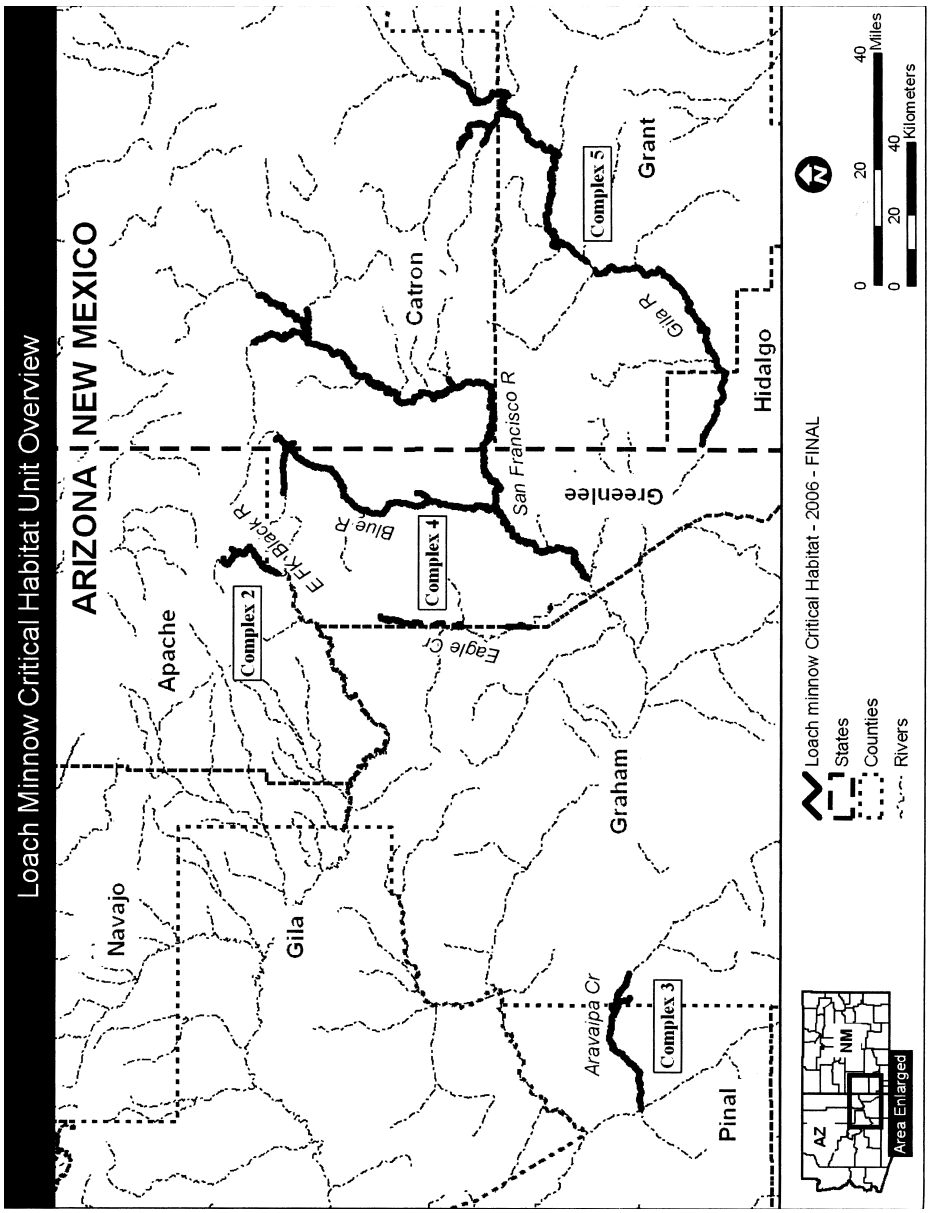
(iv) Habitat devoid of nonnative aquatic species or habitat in which nonnative aquatic species are at levels that allow persistence of loach minnow.

(v) Areas within perennial, interrupted stream courses that are periodically dewatered but that serve as connective corridors between occupied or seasonally occupied habitat and through which the species may move when the habitat is wetted.

(3) Each stream segment includes a lateral component that consists of 300 feet (91.4 meters) on either side of the stream channel measured from the stream edge at bank full discharge. This lateral component of critical habitat contains and contributes to the physical and biological features essential to the loach minnow and is intended as a surrogate for the 100-year floodplain.

(4) Critical habitat map areas. Data layers defining map areas, and mapping of critical habitat areas, was done using Arc GIS and verifying with USGS 7.5′ quadrangles. Legal descriptions for New Mexico and Arizona are based on the Public Lands Survey System (PLSS). Within this system, all coordinates reported for New Mexico are in the New Mexico Principal Meridian (NMPM), while those in Arizona are in the Gila and Salt River Meridian (GSRM). All mileage calculations were performed using GIS.

(5) NOTE: Index map of critical habitat units for loach minnow (Map 1) follows:



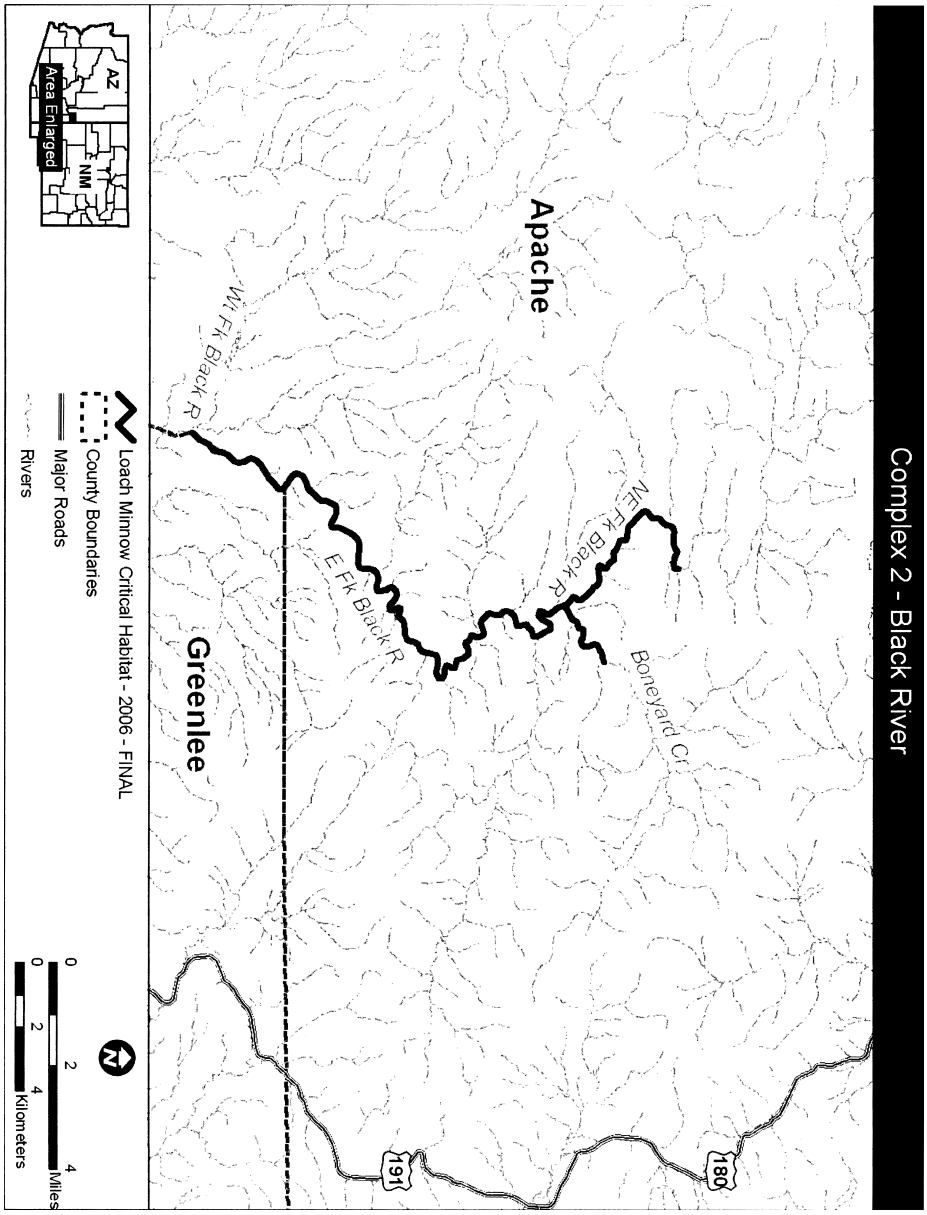
(6) Complex 2—Black River, Apache and Greenlee Counties, Arizona.

(i) East Fork Black River—12.2 mi (19.7 km) of river extending from the confluence with the West Fork Black River at Township 4 North, Range 28 East, section 11 upstream to the confluence with unnamed tributary approximately 0.51 mi (0.82 km) downstream of the Boneyard Creek confluence at Township 5 North, Range 29 East, section 5. Land ownership: U.S. Forest Service (Apache—Sitgreaves National Forest).

(ii) North Fork East Fork Black River—4.4 mi (7.1 km) of river extending from the confluence with East Fork Black River at Township 5 North, Range 29 East, section 5 upstream to the confluence with an unnamed tributary at Township 6 North, Range 29 East, section 30. Land ownership: U.S. Forest Service (Apache—Sitgreaves National Forest).

(iii) Boneyard Creek—1.4 mi (2.3 km) of creek extending from the confluence with the East Fork Black River at Township 5 North, Range 29 East, section 5 upstream to the confluence with an unnamed tributary at Township 6 North, Range 29 East, section 32. Land ownership: U.S. Forest Service (Apache—Sitgreaves National Forest).

(iv) NOTE: Map of Complex 2 (Black River) of loach minnow critical habitat (Map 2) follows:



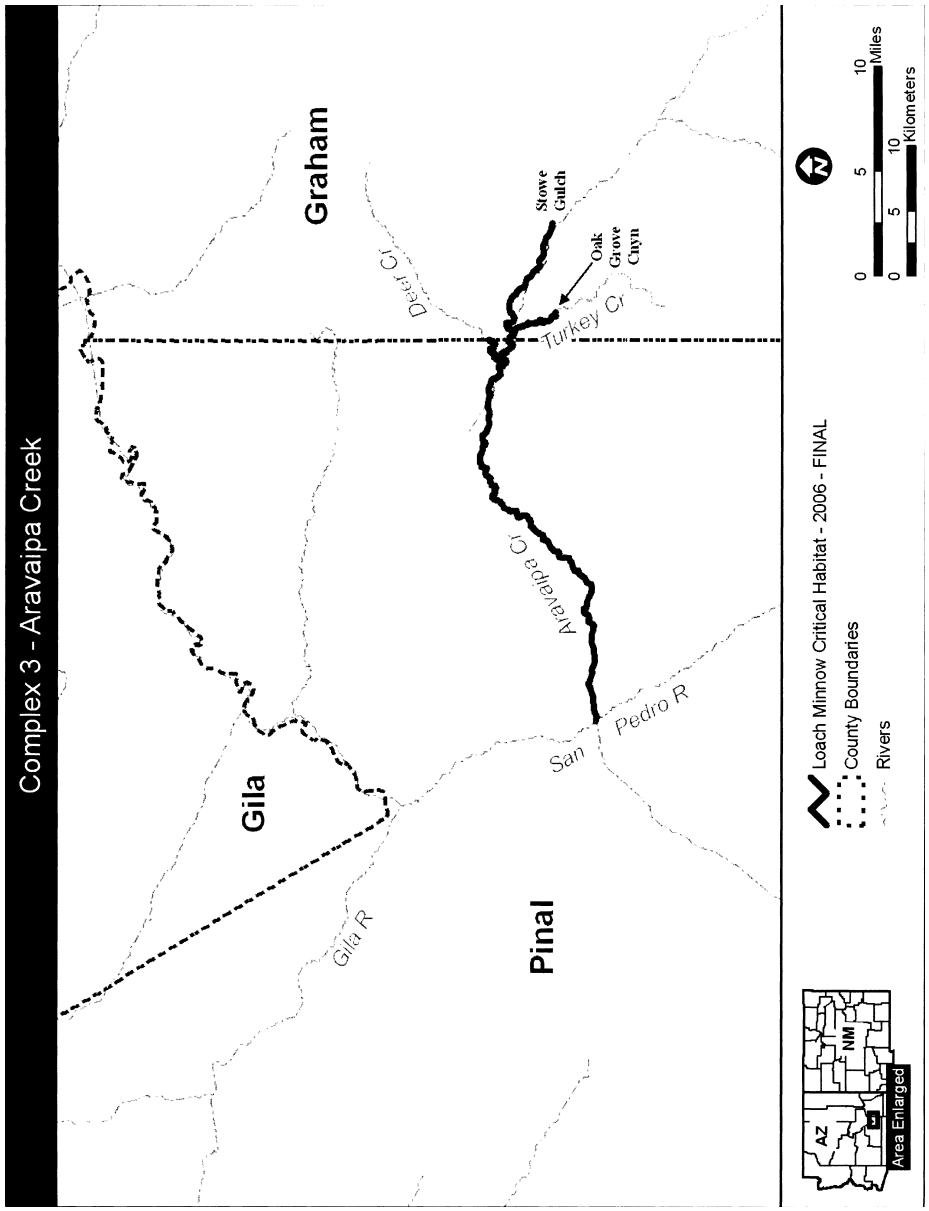
(7) Complex 3—Middle Gila/Lower San Pedro/Aravaipa Creek, Pinal and Graham Counties, Arizona.

(i) Aravaipa Creek—28.1 mi (45.3 km) of creek extending from the confluence with the San Pedro River at Township 7 South, Range 16 East, section 9 upstream to the confluence with Stowe Gulch at Township 6 South, Range 19 East, section 35. Land ownership: Bureau of Land Management, Tribal, and State lands.

(ii) Turkey Creek—2.7 mi (4.3 km) of creek extending from the confluence with Aravaipa Creek at Township 6 South, Range 19 East, section 19 upstream to the confluence with Oak Grove Canyon at Township 6 South, Range 19 East, section 32. Land ownership: Bureau of Land Management.

(iii) Deer Creek—2.3 mi (3.6 km) of creek extending from the confluence with Aravaipa Creek at Township 6 South, Range 18 East, section 14 upstream to the boundary of the Aravaipa Wilderness at Township 6 South, Range 19 East, section 18. Land ownership: Bureau of Land Management.

(iv) NOTE: Map of Complex 3 (Aravaipa Creek) of loach minnow critical habitat (Map 3) follows:



(8) Complex 4—San Francisco and Blue Rivers, Pinal and Graham Counties, Arizona, and Catron County, New Mexico.

(i) Eagle Creek—17.7 mi (28.5 km) of creek extending from the Phelps—Dodge Diversion Dam at Township 4 South, Range 28 East, section 23 upstream to the confluence of Dry Prong and East Eagle Creeks at Township 2 North, Range 28 East, section 29, excluding portions of the San Carlos Reservation. Land ownership: U.S. Forest Service (Apache—Sitgreaves National Forest), and private lands.

(ii) San Francisco River—126.5 mi (203.5 km) of river extending from the confluence with the Gila River at Township 5 South, Range 29 East, section 21 upstream to the mouth of The Box, a canyon above the town of Reserve, at Township 6 South, Range 19 West, section 2. Land ownership: Bureau of Land Management, U.S. Forest Service (Apache–Sitgreaves National Forest), State, and private lands in Arizona, and U.S. Forest Service (Gila National Forest) and private lands in New Mexico.

(iii) Tularosa River—18.6 mi (30.0 km) of river extending from the confluence with the San Francisco River at Township 7 South, Range 19 West, section 23 upstream to the town of Cruzville at Township 6 South, Range 18 West, section 12. Land ownership: U.S. Forest Service (Gila National Forest) and private lands.

(iv) Negrito Creek—4.2 mi (6.8 km) of creek extending from the confluence with the Tularosa River at Township 7 South, Range 18 West, section 19 upstream to the confluence with Cerco Canyon at Township 7 South, Range 18 West, section 21. Land ownership: U.S. Forest Service (Gila National Forest), and private lands.

(v) Whitewater Creek—1.1 mi (1.8 km) of creek extending from the confluence with the San Francisco River at Township 11 South, Range 20 West, section 27 upstream to the confluence with the Little Whitewater Creek at Township 11 South, Range 20 West, section 23. Land ownership: private lands.

(vi) Blue River—51.1 mi (82.2 km) of river extending from the confluence with the San Francisco River at Township 2 South, Range 31 East, section 31 upstream to the confluence of Campbell Blue and Dry Blue Creeks at Township 6 South, Range 20 West, section 6. Land ownership: U.S. Forest Service (Apache–Sitgreaves National Forest) and private lands in Arizona; U.S. Forest Service (Gila National Forest) in New Mexico.

(vii) Campbell Blue Creek—8.1 mi (13.1 km) of creek extending from the confluence of Dry Blue and Campbell Blue Creeks at Township 6 South, Range 20 West, section 6 in New Mexico upstream to the confluence with Coleman Canyon at Township 4 North, Range 31 East, section 32 in Arizona. Land ownership: U.S. Forest Service (Apache–Sitgreaves National Forest) and private lands in Arizona; U.S. Forest Service (Gila National Forest) in New Mexico.

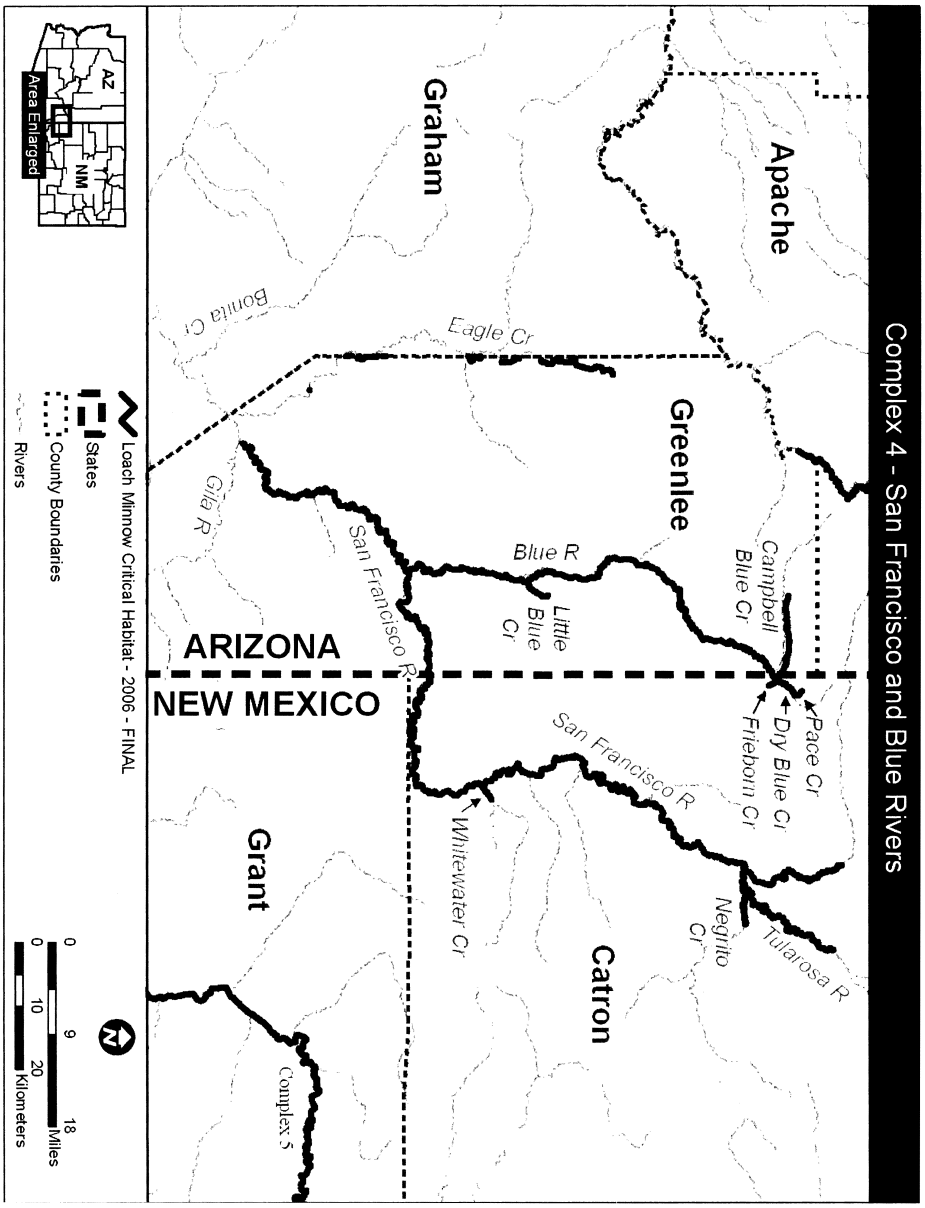
(viii) Dry Blue Creek—3.0 mile (4.8 km) of creek extending from the confluence with Campbell Blue Creek at Township 7 South, Range 21 West, section 6 upstream to the confluence with Pace Creek at Township 6 South, Range 21 West, section 28. Land ownership: U.S. Forest Service (Gila National Forest).

(ix) Pace Creek—0.8 mile (1.2 km) of creek extending from the confluence with Dry Blue Creek at Township 6 South, Range 21 West, section 28 upstream to a barrier falls at Township 6 South, Range 21 West, section 29. Land ownership: U.S. Forest Service (Gila National Forest).

(x) Frieborn Creek—1.1 mi (1.8 km) of creek extending from the confluence with Dry Blue Creek at Township 7 South, Range 21 West, section 6 upstream to an unnamed tributary at Township 7 South, range 21 West, section 8. Land ownership: U.S. Forest Service (Gila National Forest).

(xi) Little Blue Creek—2.8 mi (4.5 km) of creek extending from the confluence with the Blue River at Township 1 South, range 31 East, section 5 upstream to the mouth of a canyon at Township 1 North, Range 31 East, section 29. Land ownership: U.S. Forest Service (Apache–Sitgreaves National Forest).

(xii) NOTE: Map of Complex 4 (San Francisco and Blue Rivers) of loach minnow critical habitat (Map 4) follows:



(9) Complex 5—Upper Gila River Complex, Catron, Grant, and Hidalgo Counties, New Mexico.

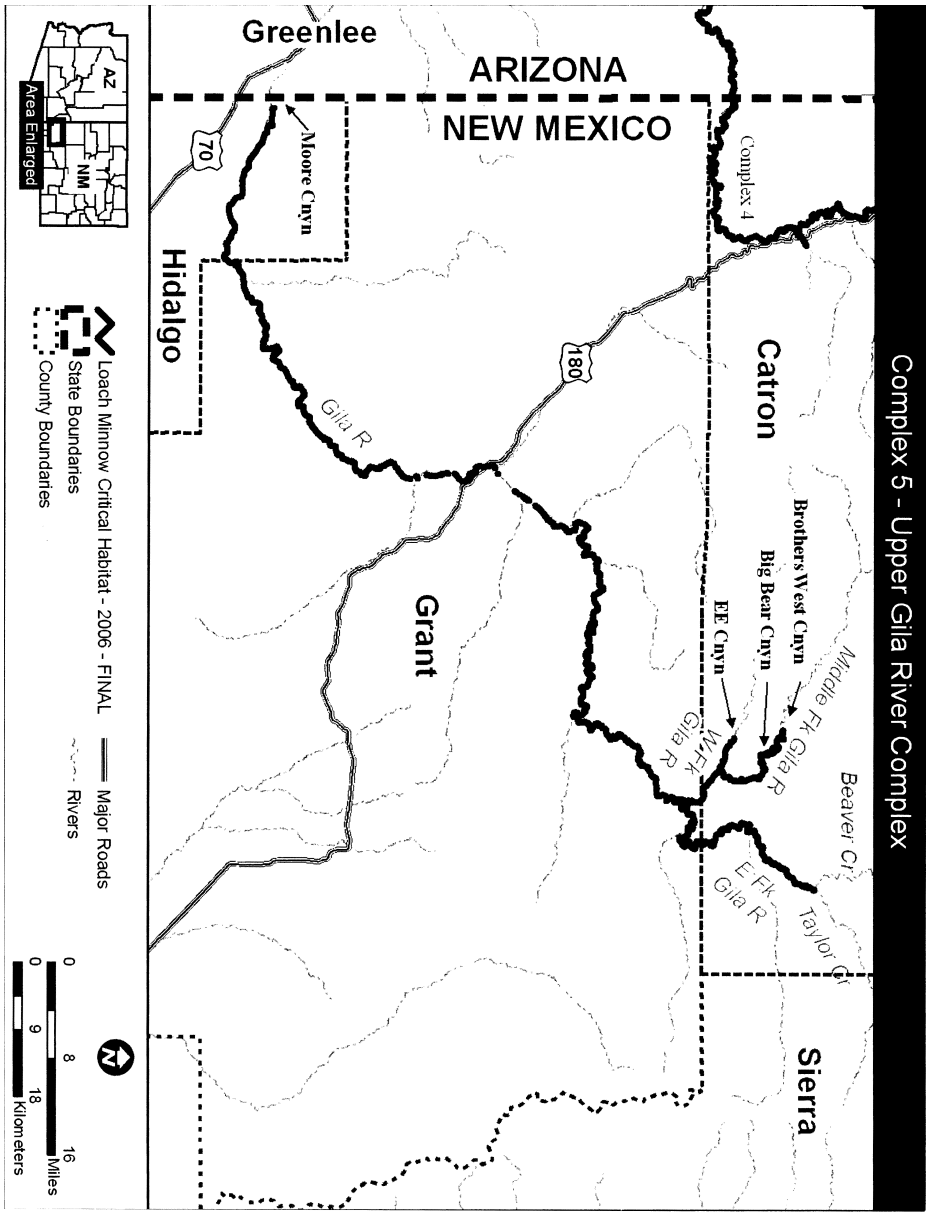
(i) Upper Gila River—94.9 mi (152.7 km) of river extending from the confluence with Moore Canyon (near the Arizona/New Mexico border) at Township 18 South, Range 21 West, section 32 upstream to the confluence of the East and West Forks of the Gila River at Township 13 South, Range 13 West, section 8. Land ownership: Bureau of Land Management, U.S. Forest Service (Gila National Forest), State, and private lands.

(ii) East Fork Gila River—26.1 mi (42.0 km) of river extending from the confluence with the West Fork Gila River at Township 11 South, Range 12 West, section 17 upstream to the confluence of Beaver and Taylor creeks at Township 13 South, Range 13 West, section 8. Land ownership: U.S. Forest Service (Gila National Forest) and private lands.

(iii) Middle Fork Gila River—11.9 mi (19.1 km) of river extending from the confluence with the West Fork Gila River at Township 12 South, Range 14 West, section 25 upstream to the confluence with Brothers West Canyon at Township 11 South, Range 14 West, section 33. Land ownership: U.S. Forest Service (Gila National Forest) and private lands.

(iv) West Fork Gila River—7.7 mi (12.4 km) of river extending from the confluence with the East Fork Gila River at Township 13 South, Range 13 West, section 8 upstream to the confluence with EE Canyon at Township 12 South, Range 14 West, section 22. Land ownership: U.S. Forest Service (Gila National Forest), National Park Service, and private lands.

(v) NOTE: Map of Complex 5 (Upper Gila River Complex) of loach minnow critical habitat (Map 5) follows:



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;

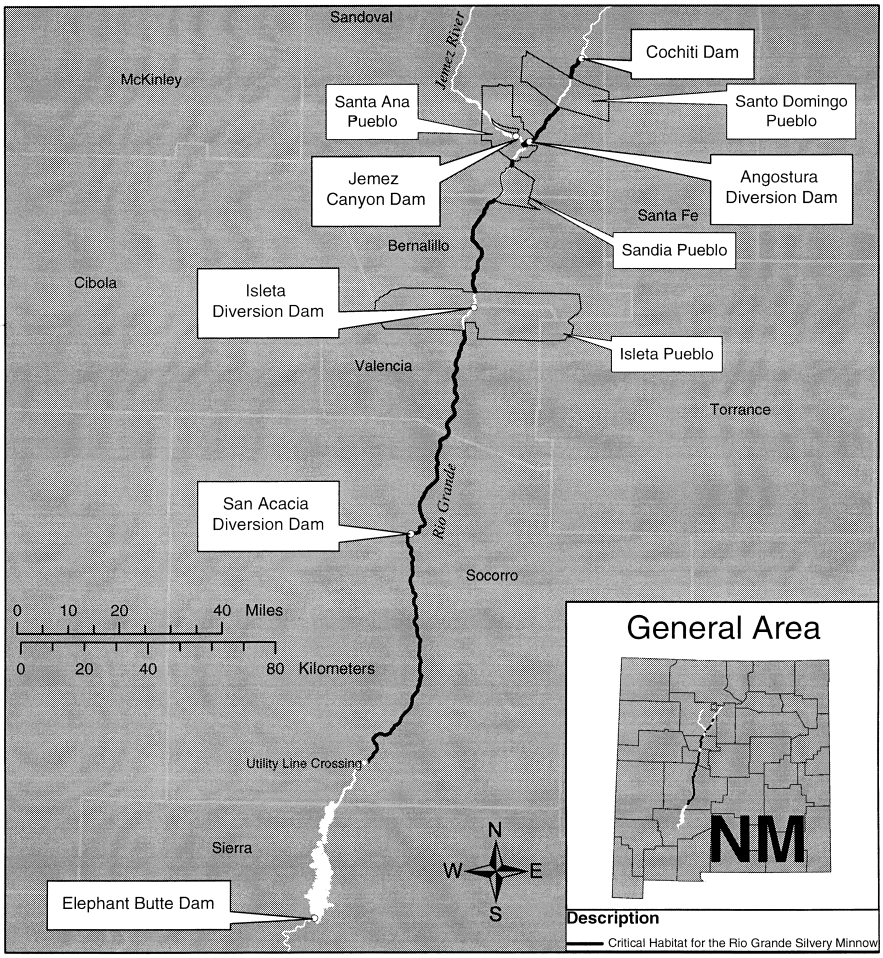
(iii) Angostura Diversion Dam to Isleta Diversion Dam (Angostura Reach)—38 mi (61 km) of river immediately downstream of the Angostura Diversion Dam to the Isleta Diversion Dam;

(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:

Critical Habitat for the Rio Grande Silvery Minnow
(Hybognathus amarus)



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.

(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.

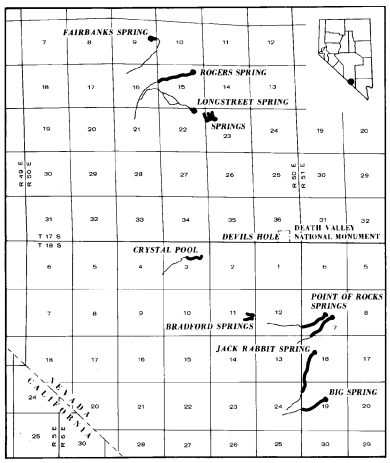
Bradford Springs in Section 11, T18S, R50E, and their outflows for a distance of 300 meters (984 feet) from the springs.

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:

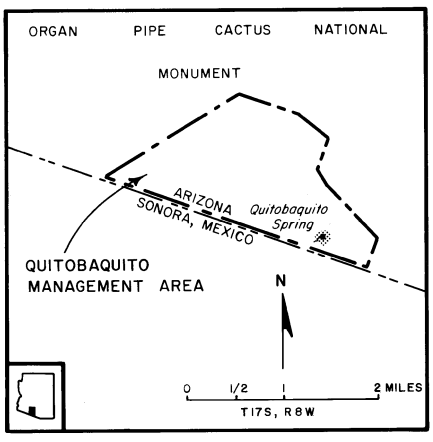


Known constituent elements include warm-water springs and their outflows and surrounding land areas that provide vegetation for cover and habitat for insects and other invertebrates on which this species feeds.

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:



California: Imperial County.

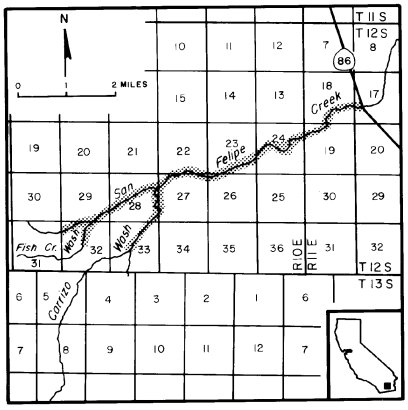
1. *San Felipe Creek.* Approximately 8½ stream miles and 100 feet on either side of San Felipe Creek or the stream channel commencing at the State Highway 86 bridge crossing (approximately ¼ mile south of

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 1¾ 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 N½ Section 33; T12S; R10E; including those areas of the stream channel in T12S; R10E; Section 27, 28, and N½ 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 N½ Section 32; T12S; R10E; including those areas of the stream channel in T12S; R10E; Section 29 and N½ Section 32.

NOTE: Map follows:

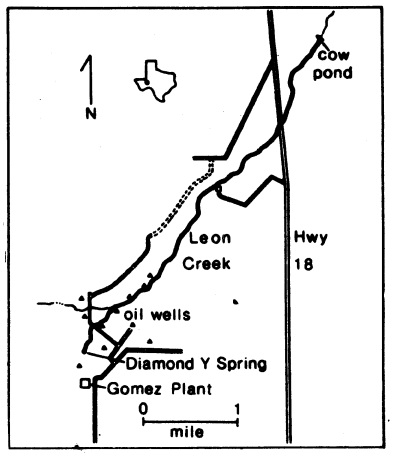


Constituent elements for all four areas designated as critical habitat include clean unpolluted water that is relatively free of exotic organisms, especially exotic fishes, in small slow-moving desert streams and spring pools with marshy backwater areas.

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:



ARKANSAS RIVER SHINER (*Notropis girardi*)

(1) Critical habitat units are depicted for Clark, Comanche, Meade, and Seward Counties, Kansas; and Beaver, Blaine, Caddo, Canadian, Cleveland, Custer, Grady, Harper, Hughes, Kingfisher, Logan, Major, McClain, McIntosh, Pittsburg, Pontotoc, Pottawatomie, Seminole, Woods and Woodward Counties, Oklahoma, on the maps and as described below.

(2) Critical habitat includes the stream channels within the identified stream reaches indicated on the map 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 and generally occurs with a frequency of every 1 to 2 years.

(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 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; (ii) a complex, braided channel with pool, riffle (shallow area in a streambed causing ripples), run, and backwater components that provide a suitable variety of depths and current velocities in appropriate seasons; (iii) a suitable

unimpounded stretch of flowing water of sufficient length to allow hatching and development of the larvae; (iv) a river bed of predominantly sand, with some patches of gravel and cobble; (v) water quality characterized by low concentrations of contaminants and natural, daily and seasonally variable temperature, turbidity, conductivity, dissolved oxygen, and pH; (vi) suitable reaches of aquatic habitat, as defined by primary constituent elements (i) through (v) above, and adjacent riparian habitat sufficient to support an abundant terrestrial, semiaquatic, and aquatic invertebrate food base; and (vii) few or no predatory or competitive non-native fish species present.

(4) Developed areas, such as buildings, roads, bridges, parking lots, railroad tracks, other paved areas, and the lands that support these features are excluded from this designation. They are not designated as critical habitat and Federal actions limited to these areas would not trigger a section 7 consultation, unless they affect protected or restricted habitat and one or more of the primary constituent elements in adjacent critical habitat.

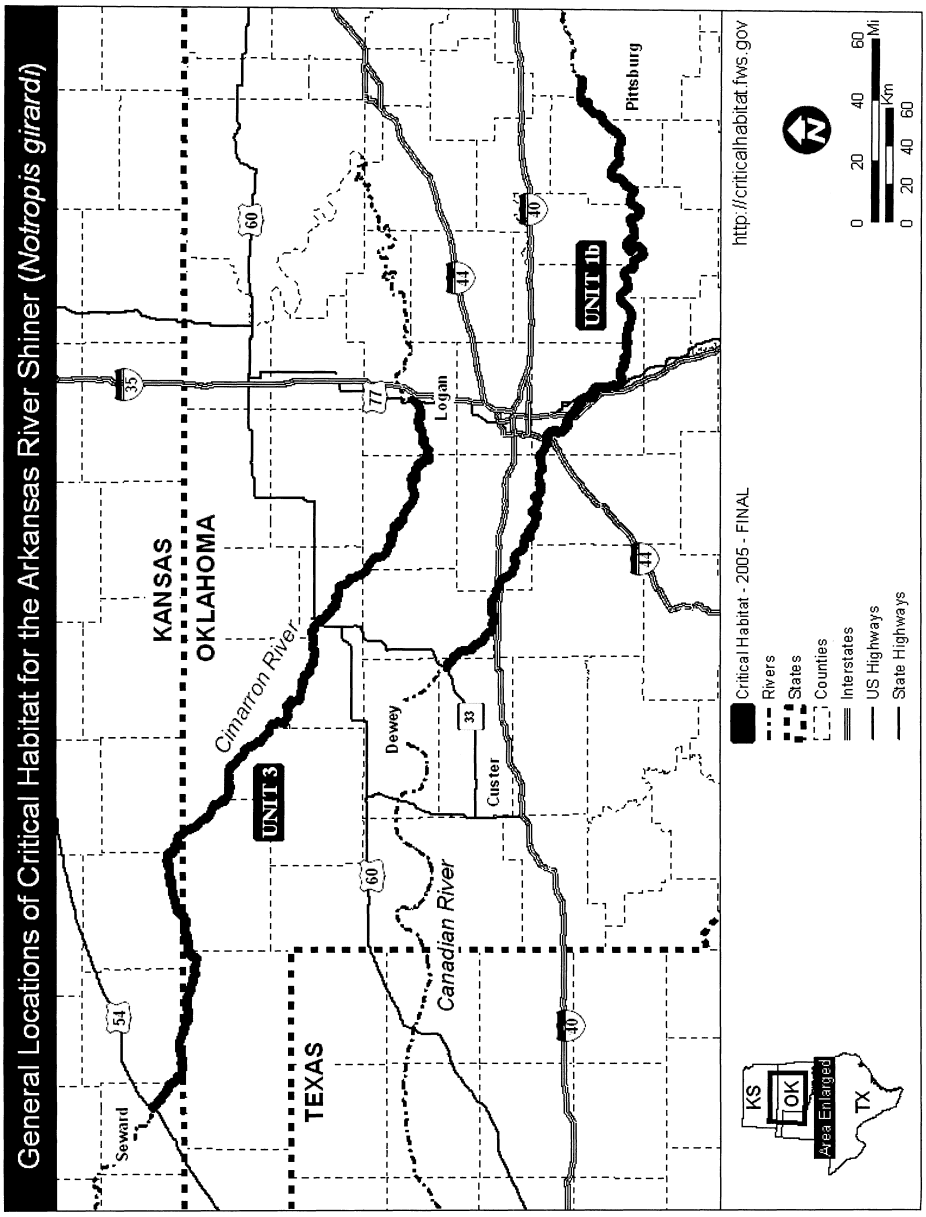
(5) Kansas (Sixth Principal Meridian (SPM)) and Oklahoma (Indian Meridian (IM)): Areas of land and water as follows (physical features were identified using USGS 7.5′ quadrangle maps; river reach distances were derived from digital data obtained from USGS National Atlas data set for river reaches, roads, and county boundaries.

(6) Critical habitat units for the Arkansas River shiner are described below.

(i) Unit 1b. Canadian River—approximately 396 km (246 mi), extending from the State Highway 33 bridge near Thomas, Oklahoma (IM T.15 N., R. 14 W., SW¼ SE¼ Sec. 15) downstream to Indian Nation Turnpike bridge northwest of McAlester, Oklahoma (IM T.8N., R.13E., SE¼ SW¼ SE¼ Sec. 23).

(ii) Unit 3. Cimarron River—approximately 460 km (286 mi), 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 77 bridge in Logan County, Oklahoma (IM, T. 17 N., R. 2 W., Sec. 29).

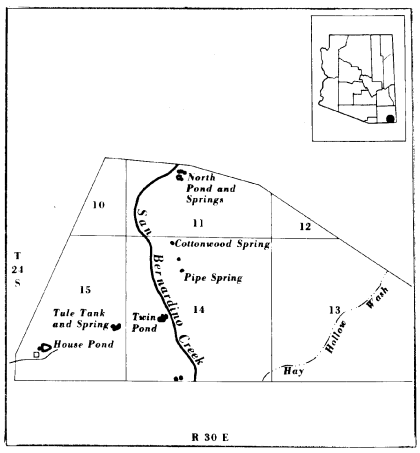
(iii) NOTE: Map of critical habitat units follows:



BEAUTIFUL SHINER (*Notropis formosus*)

Arizona, Cochise County. All aquatic habitats of San Bernardino NWR in S½ Sec. 11; Sec. 14; S½ and NE¼ 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:



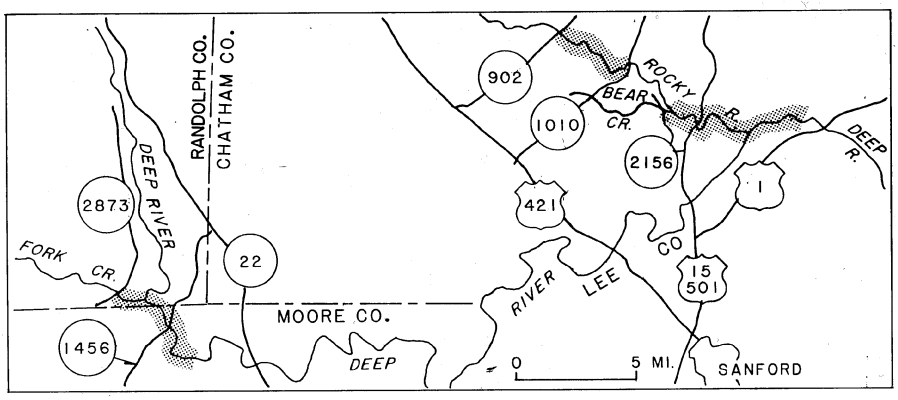
CAPE FEAR SHINER (*Notropis mekistocholas*)

(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.

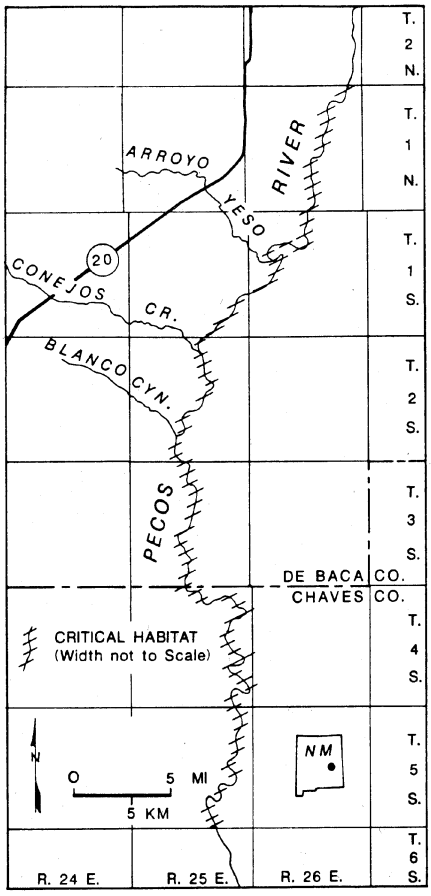
NOTE: Map follows:



PECOS BLUNTNOSE SHINER (*Notropis simus pecosensis*).

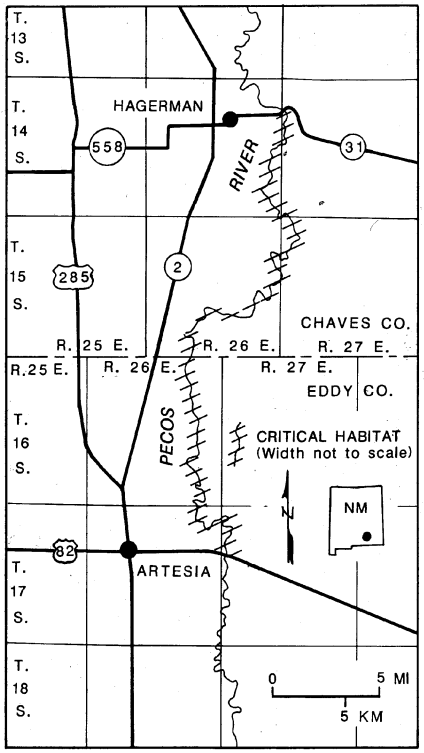
1. New Mexico: De Baca and Chaves Counties. Pecos River from point at the north boundary of NE ¼ Sec. 2; T1N; R26E (approximately 10 mi. (16 km.) south of Fort Sumner) extending downstream approximately 64 mi. (103 km.) to a point at the south boundary SW ¼ Sec. 35; T5S; R25E.

NOTE: Map follows:



2. New Mexico. Chaves and Eddy Counties. Pecos River from the west boundary NW ¼ Sec. 7; T14S; R27E, extending downstream approximately 37 mi. (60 km.) to the NW ¼ Sec. 18; T17S; R27E (to the U.S. highway 82 bridge near Artesia).

NOTE: Map follows:



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 bankfull 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, R36W, Sec. 24), upstream through T87N, R36W, Sec. 29.

(ii) Reach 1b. Tributary to Indian Creek (Ditch 57), from their confluence (T87N, R36W, 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 to a point 2,000 feet west of the east section line of 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

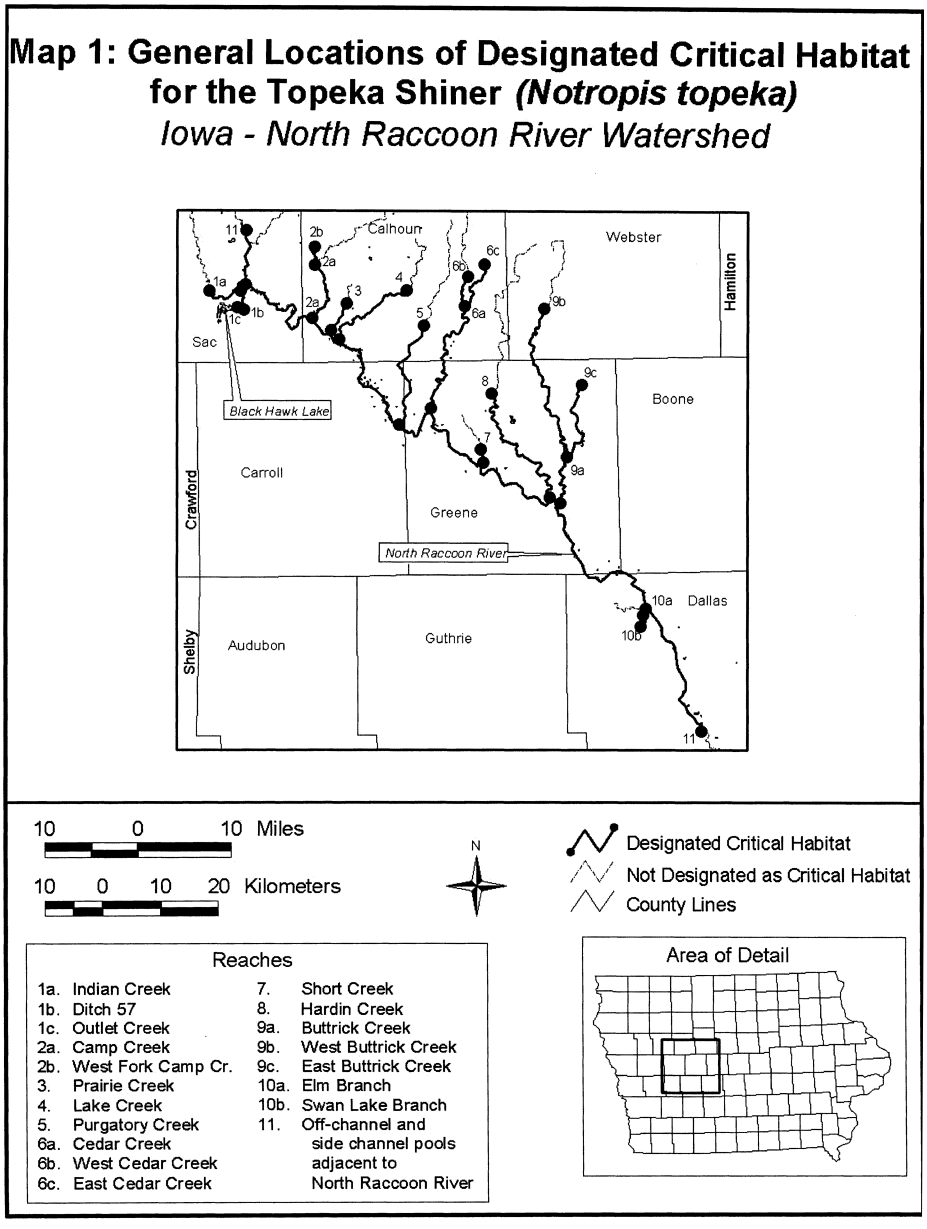
(T84N, R30W, Sec. 25), upstream through T85N, R29W, Sec. 20.

(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.



(7) Unit 2: Boone River Watershed—Wright and Hamilton Counties, Iowa.

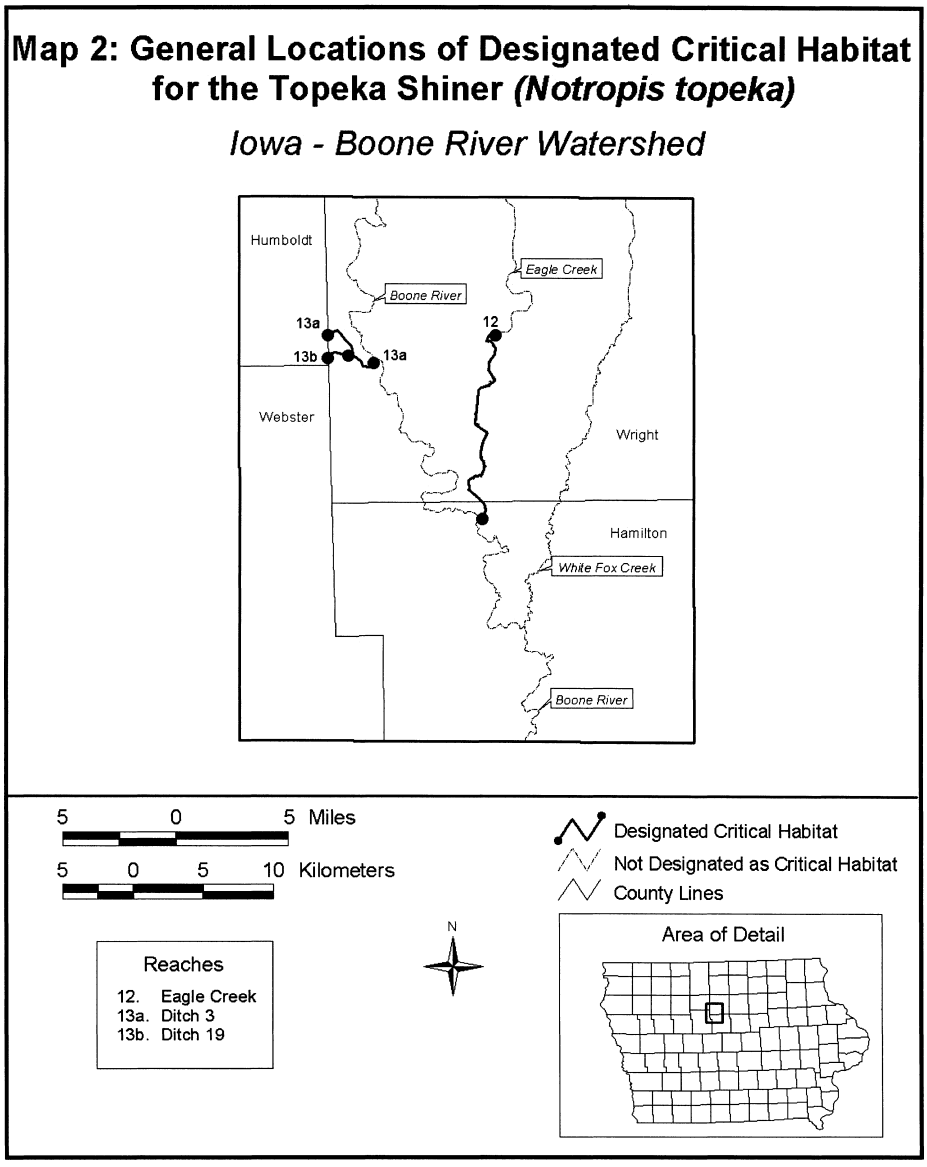
(i) Reach 12. Eagle Creek from its confluence with the Boone River (T89N, R25W, Sec. 6), upstream through T91N, R25W, Sec. 30.

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.



(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,

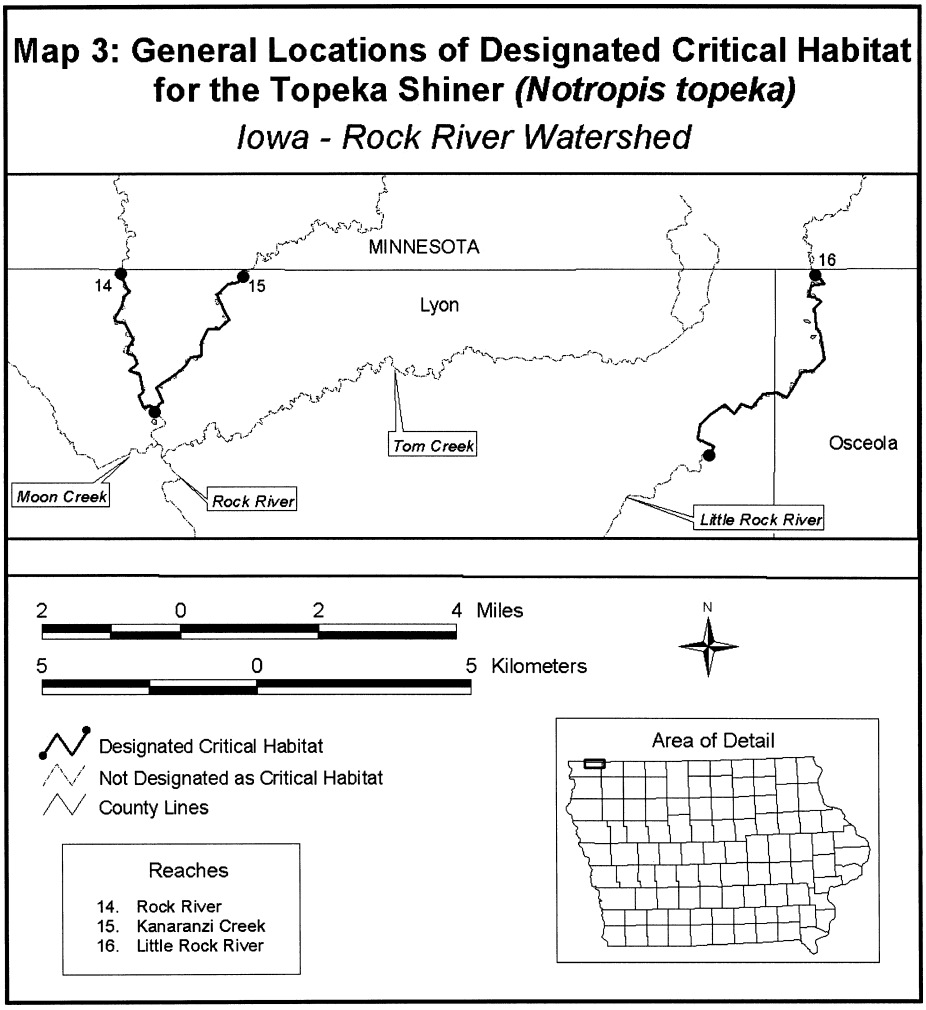
Sec. 28), upstream to the Iowa/Minnesota State border (T100N, R45W, Sec. 8).

(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.



(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. 23), upstream to the Minnesota/South Dakota State border T104N, R47W, Sec. 22.

(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 the Minnesota/South Dakota border (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. 13.

(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.

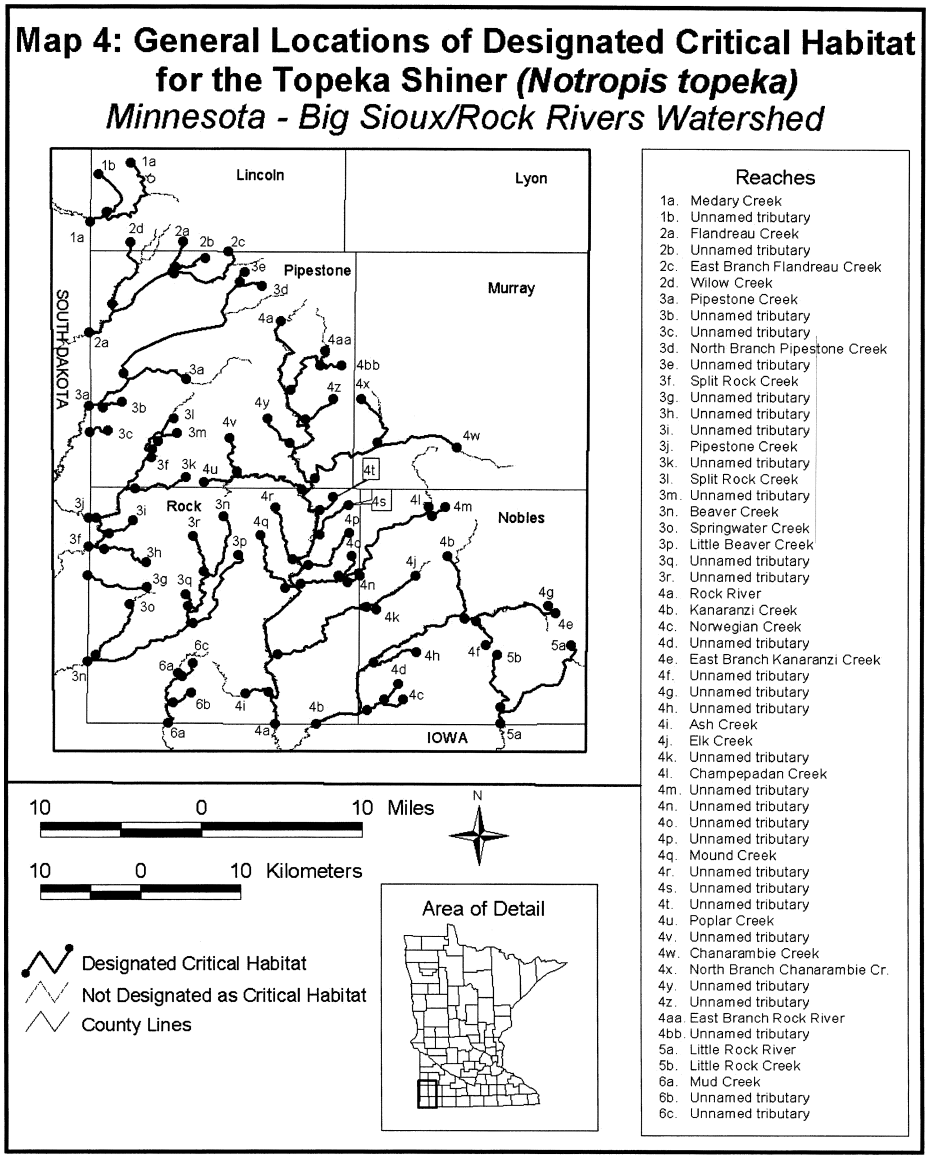
Mud Creek Complex

(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.



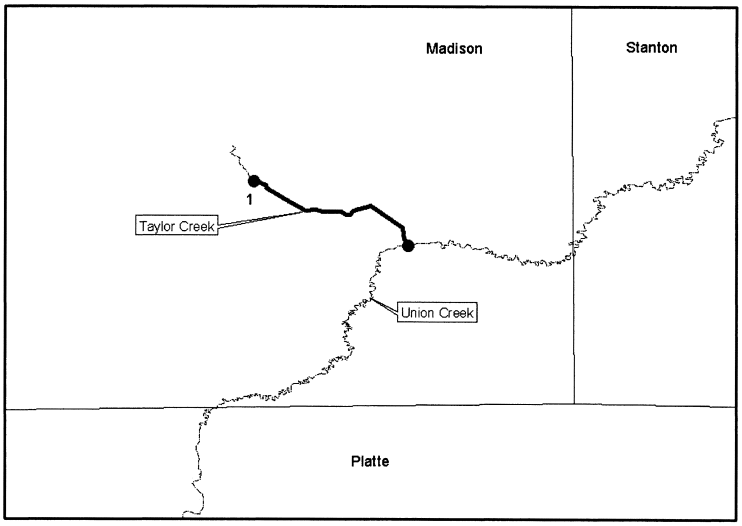
(13) Unit 5: Elkhorn River Watershed—Madison County, Nebraska.

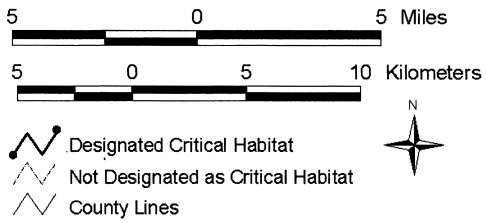
Taylor Creek from its confluence with Union Creek (T22N, R1W, Sec. 32), upstream through T22N, R2W, Sec. 22.

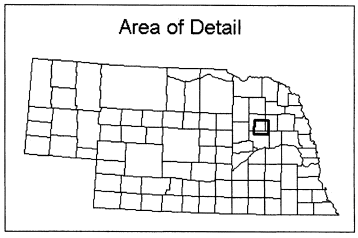
(14) NOTE: Unit 5 (Map 5) follows.

Map 5: General Locations of Designated Critical Habitat for the Topeka Shiner *(Notropis topeka)*

Nebraska - Elkhorn River Watershed





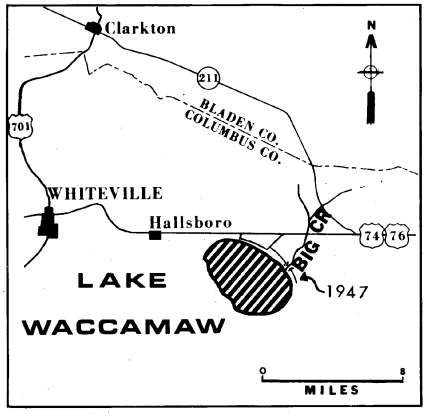


WACCAMAW SILVERSIDE (*Menidia extensa*)

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:

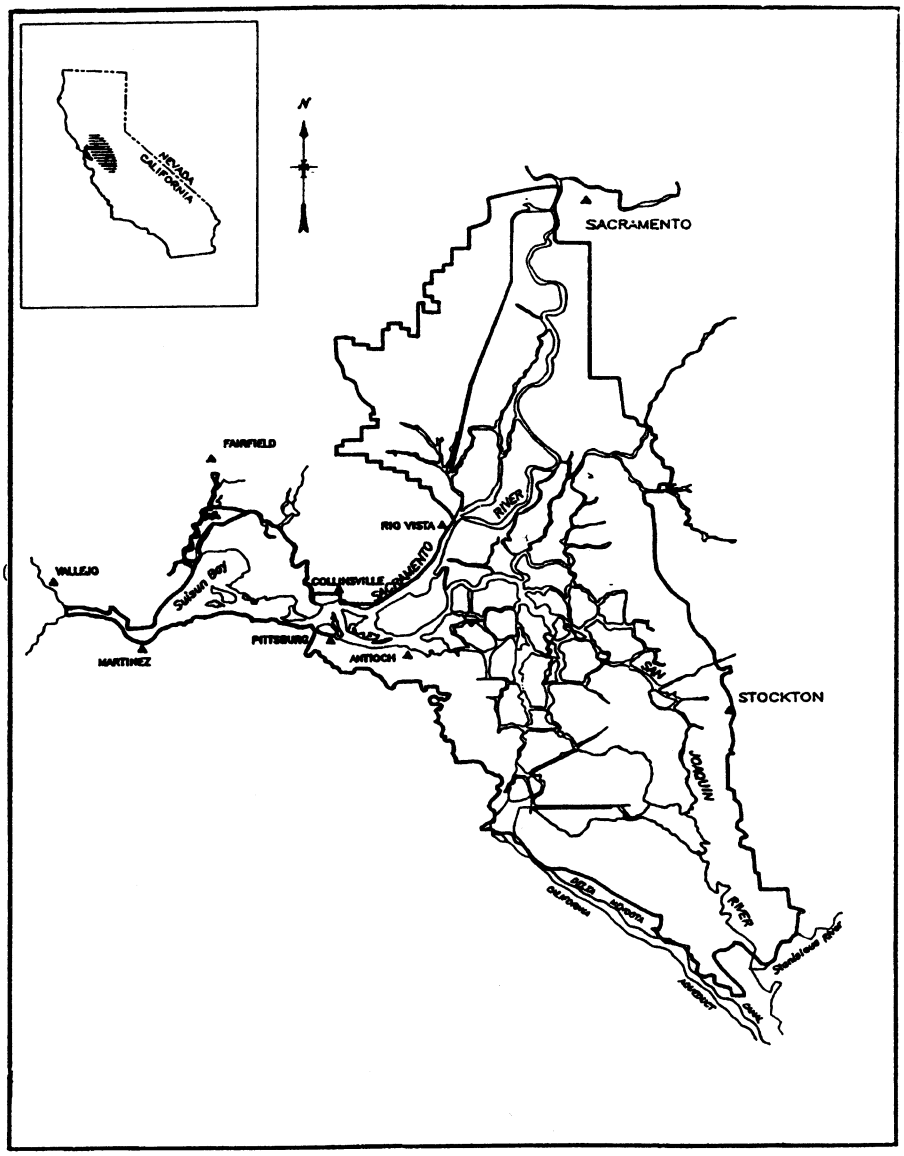


DELTA SMELT (*Hypomesus transpacificus*)

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:



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 Graham, Greenlee, Pinal, and Yavapai Counties, Arizona; and Catron, Grant, and Hidalgo Counties, New Mexico, on the maps and as described below.

(2) Within these areas, the primary constituent elements of critical habitat for spikedace are the following:

(i) Permanent, flowing water with no or minimal pollutant levels, including:

(A) Living areas for adult spikedace with slow to swift flow velocities between 20 and 60 cm/second (8 and 24 in/second) in shallow water between approximately 10 cm (4 in) and 1 meter (40 in) in depth, with shear zones where rapid flow borders slower flow, areas of sheet flow (or smoother, less turbulent flow) at the upper ends of mid-channel sand/gravel bars, and eddies at downstream riffle edges;

(B) Living areas for juvenile spikedace with slow to moderate water velocities of approximately 18 cm/second (8 in/second) or higher in shallow water between approximately 3 cm (1.2 in) and 1 meter (40 in) in depth;

(C) Living areas for larval spikedace with slow to moderate flow velocities of approximately 10 cm/second (4 in/second) or higher in shallow water approximately 3 cm (1.2 in) to 1 meter (40 in) in depth; and

(D) Water with dissolved oxygen levels greater than 3.5 cc/l and no or minimal pollutant levels for pollutants such as copper, arsenic, mercury, and cadmium; human and animal waste products; pesticides; suspended sediments; and gasoline or diesel fuels.

(ii) Sand, gravel, and cobble substrates with low or moderate amounts of fine sediment and substrate embeddedness. Suitable levels of embeddedness are generally maintained by a natural, unregulated hydrograph that allows for periodic flooding or, if flows are modified or regulated, a hydrograph that allows for adequate river functions, such as flows capable of transporting sediments.

(iii) Streams that have:

(A) Low gradients of less than approximately 1.0 percent;

(B) Water temperatures in the approximate range of 35 to 82 °F (1.7 to 27.8 °C) (with additional natural daily and seasonal variation);

(C) Pool, riffle, run, and backwater components; and

(D) An abundant aquatic insect food base consisting of mayflies, true flies, caddisflies, stoneflies, and dragonflies.

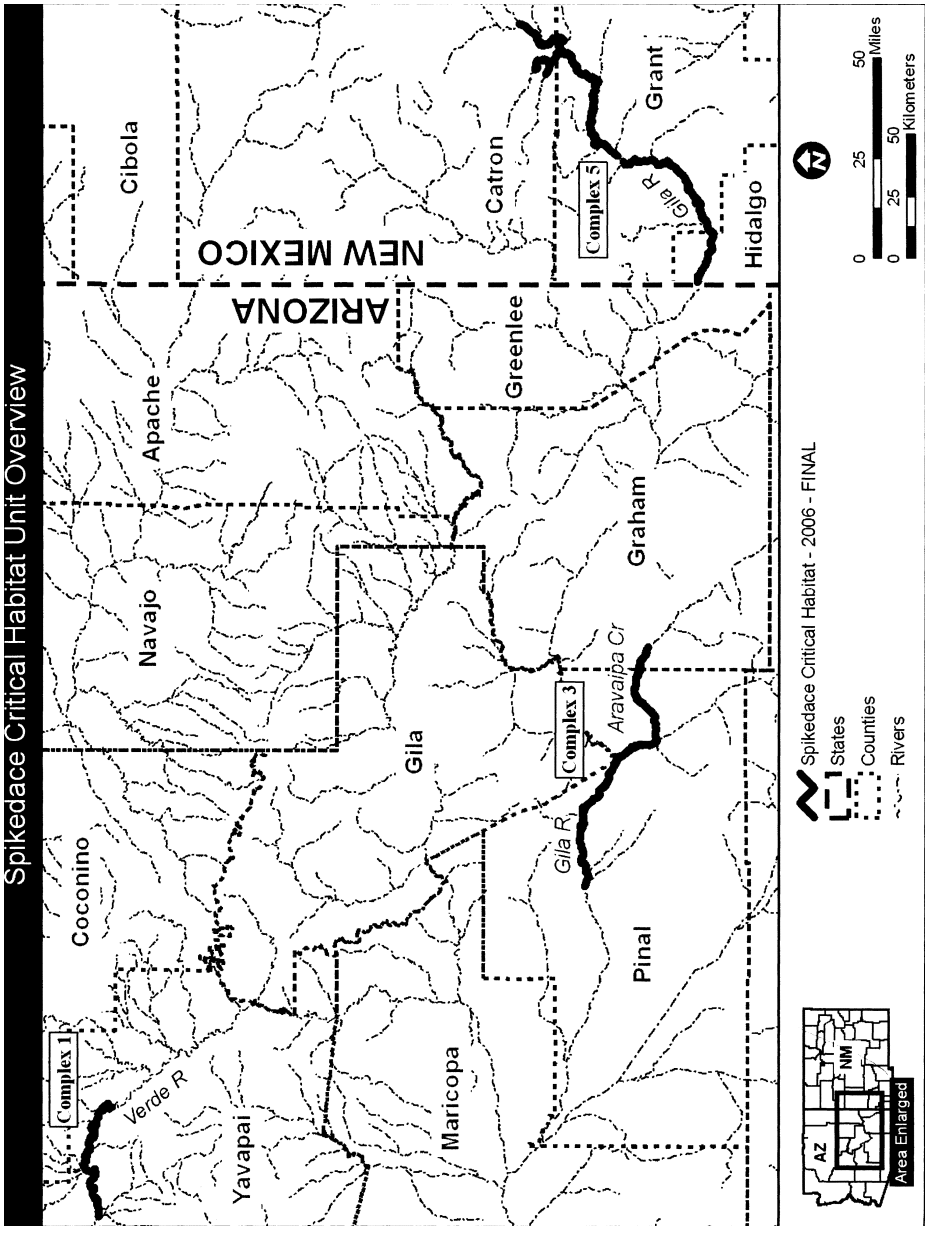
(iv) Habitat devoid of nonnative aquatic species or habitat in which nonnative aquatic species are at levels that allow persistence of spikedace.

(v) Areas within perennial, interrupted stream courses that are periodically dewatered but that serve as connective corridors between occupied or seasonally occupied habitat and through which the species may move when the habitat is wetted.

(3) Each stream segment includes a lateral component that consists of 300 feet (91.4 meters) on either side of the stream channel measured from the stream edge at bank full discharge. This lateral component of critical habitat contains and contributes to the physical and biological features essential to the spikedace and is intended as a surrogate for the 100-year floodplain.

(4) Critical habitat map areas. Data layers defining map areas, and mapping of critical habitat areas, was done using Arc GIS and verifying with USGS 7.5′ quadrangles. Legal descriptions for New Mexico and Arizona are based on the Public Lands Survey System (PLSS). Within this system, all coordinates reported for New Mexico are in the New Mexico Principal Meridian (NMPM), while those in Arizona are in the Gila and Salt River Meridian (GSRM). All mileage calculations were performed using GIS.

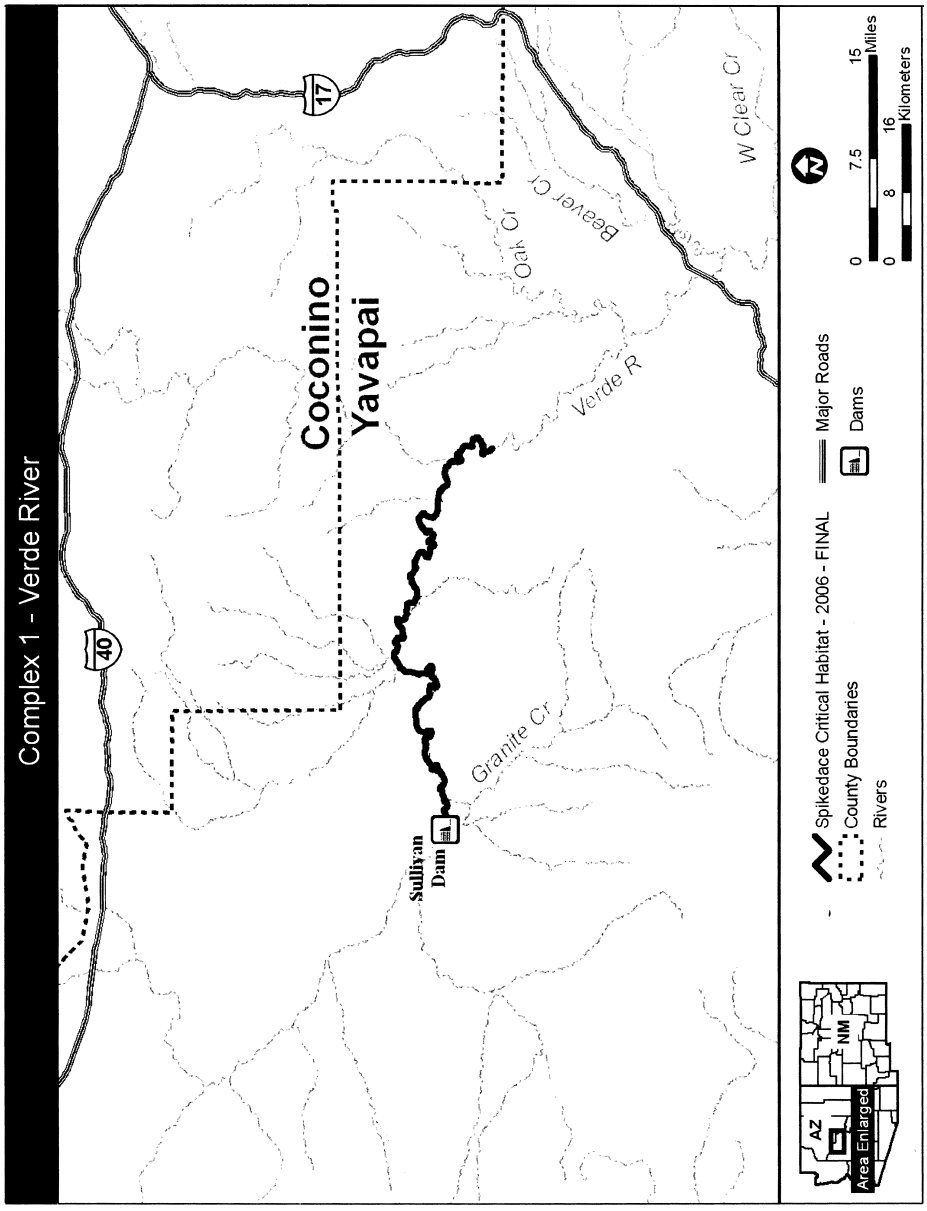
(5) NOTE: Index map of critical habitat units for spikedace (Map 1), follows:



(6) Complex 1—Verde River, Yavapai County, Arizona.

(i) Verde River—43.0 mi (69.2 km) of river extending from the Prescott and Coconino National Forest boundary with private lands at Township 17 North, Range 3 East, section 7, upstream to Sullivan Dam at Township 17 North, Range 2 West, section 15. Land ownership: U.S. Forest Service (Coconino and Prescott National Forests), State, and private lands.

(ii) NOTE: Map of Complex 1 (Verde River) of spikedace critical habitat (Map 2) follows:



(7) Complex 3—Middle Gila/Lower San Pedro/Aravaipa Creek, Pinal and Graham Counties, Arizona.

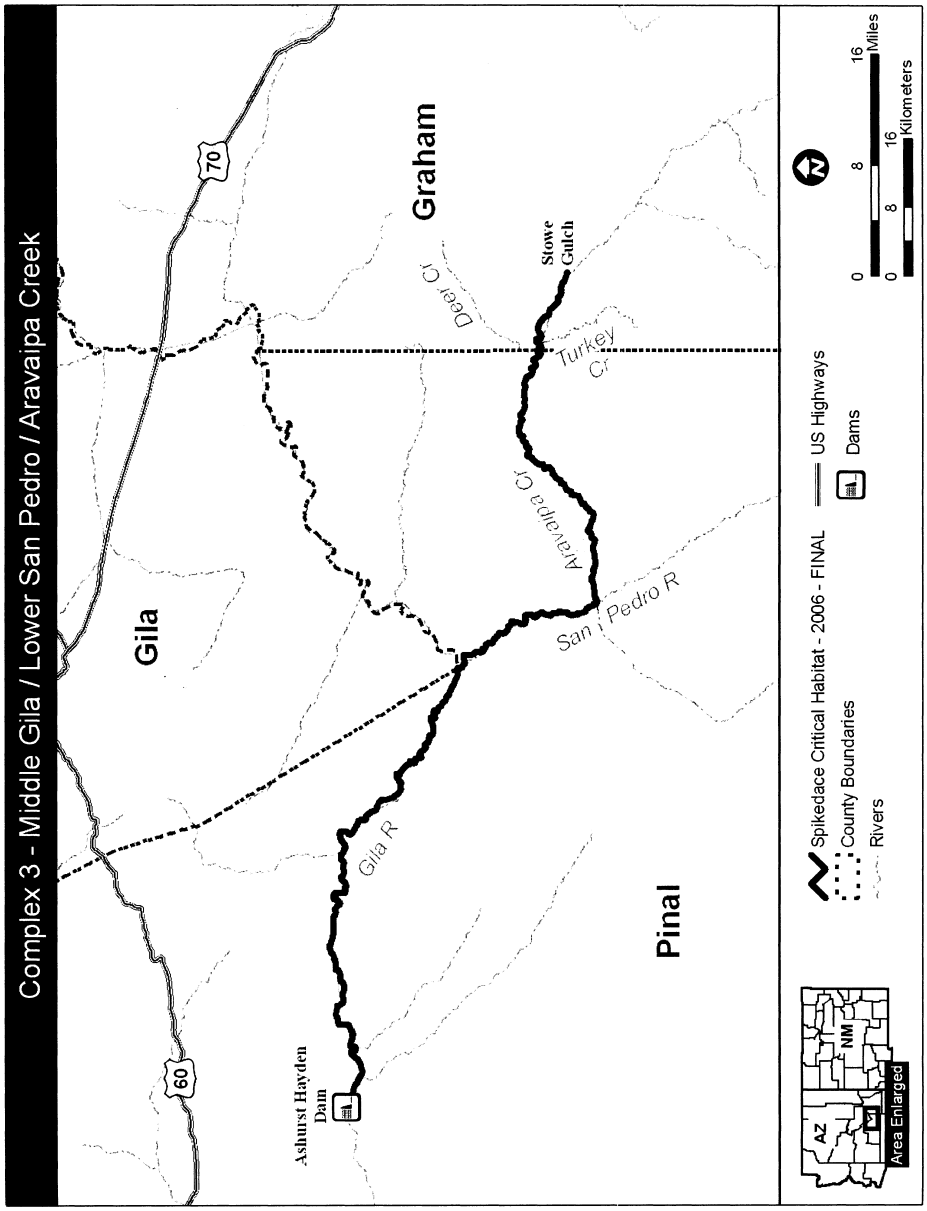
(i) Gila River—39.0 mi (62.8 km) of river extending from the Ashurst-Hayden Dam at Township 4 South, Range 11 East, section 8

upstream to the confluence with the San Pedro River at Township 5 South, Range 15 East, section 23. Land ownership: Bureau of Reclamation, Bureau of Land Management, State, and private lands.

(ii) Lower San Pedro River—13.4 mi (21.5 km) of river extending from the confluence with the Gila River at Township 5 South, Range 15 East, section 23 upstream to the confluence with Aravaipa Creek at Township 7 South, Range 16 East, section 9. Land ownership: Bureau of Land Management, Tribal, State, and private lands.

(iii) Aravaipa Creek—28.1 mi (45.3 km) of creek extending from the confluence with the San Pedro River at Township 7 South, Range 16 East, section 9 upstream to the confluence with Stowe Gulch at Township 6 South, Range 19 East, section 35. Land ownership: Bureau of Land Management, Tribal, State, and private lands.

(iv) NOTE: Map of Complex 3 (Middle Gila/Lower San Pedro/Aravaipa Creek) of spikedace critical habitat (Map 3) follows:



(8) Complex 5—Upper Gila River Complex, Catron, Grant, and Hidalgo Counties, New Mexico.

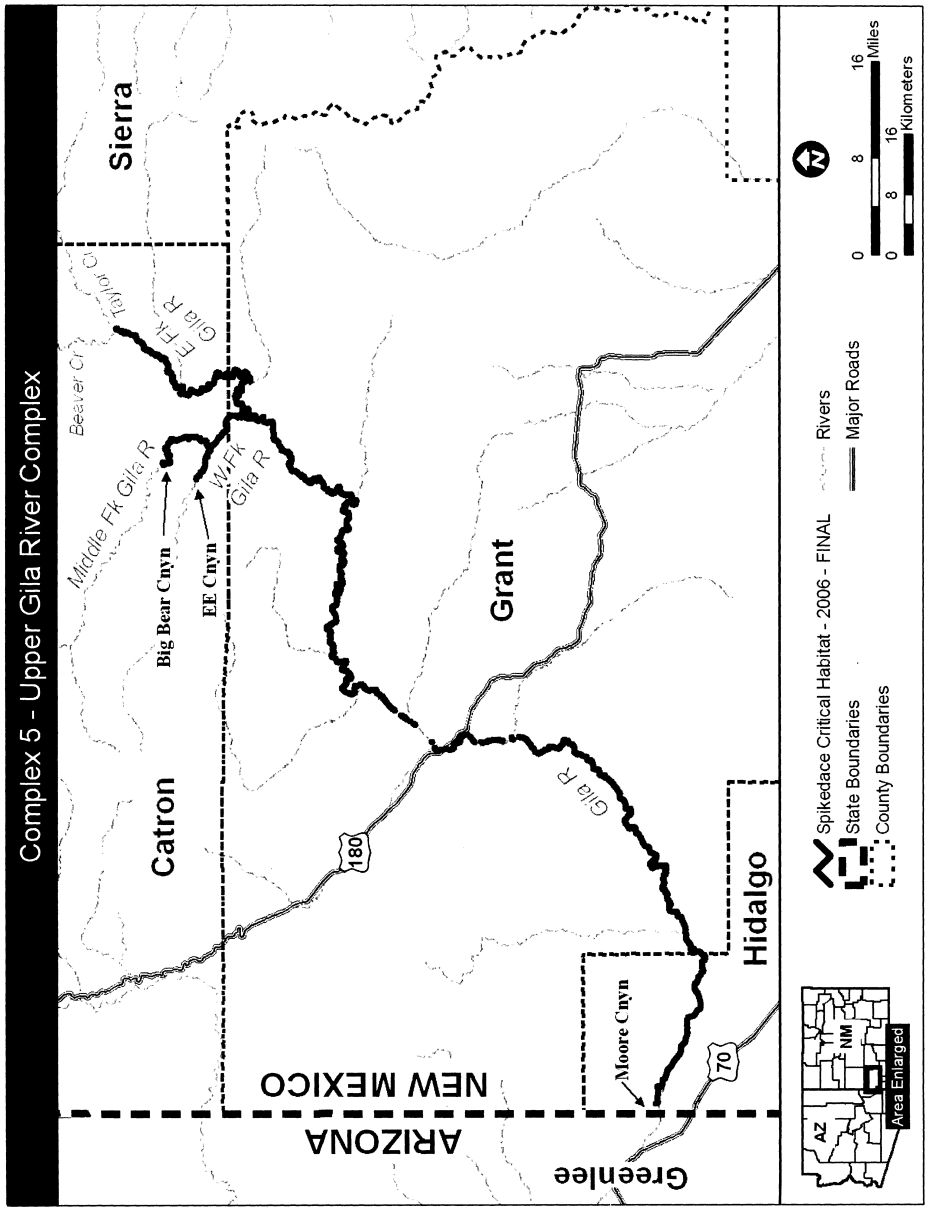
(i) Upper Gila River—94.9 mi (152.7 km) of river extending from the confluence with Moore Canyon (near the Arizona/New Mexico border) at Township 18 South, Range 21 West, section 32 upstream to the confluence of the East and West Forks of the Gila River at Township 13 South, Range 13 West, section 8, excluding lands owned by the Phelps Dodge Corporation. Land ownership: Bureau of Land Management, U.S. Forest Service (Gila National Forest), State, and private lands.

(ii) East Fork Gila River—26.1 mi (42.0 km) of river extending from the confluence with the West Fork Gila River at Township 13 South, Range 13 West, section 8 upstream to the confluence of Beaver and Taylor creeks at Township 11 South, Range 12 West, section 17. Land ownership: U.S. Forest Service (Gila National Forest) and private lands.

(iii) Middle Fork Gila River—7.7 mi (12.3 km) of river extending from the confluence with the West Fork Gila River at Township 12 South, Range 14 West, section 25 upstream to the confluence with Big Bear Canyon at Township 12 South, Range 14 West, section 2. Land ownership: U.S. Forest Service (Gila National Forest) and private lands.

(iv) West Fork Gila River—7.7 mi (12.4 km) of river extending from the confluence with the East Fork Gila River at Township 13 South, Range 13 West, section 8 upstream to the confluence with EE Canyon at Township 12 South, Range 14 West, section 22. Land ownership: U.S. Forest Service (Gila National Forest), National Park Service, and private lands.

(v) NOTE: Map of Complex 5 (Upper Gila River Complex) of spikedace critical habitat (Map 4) follows:

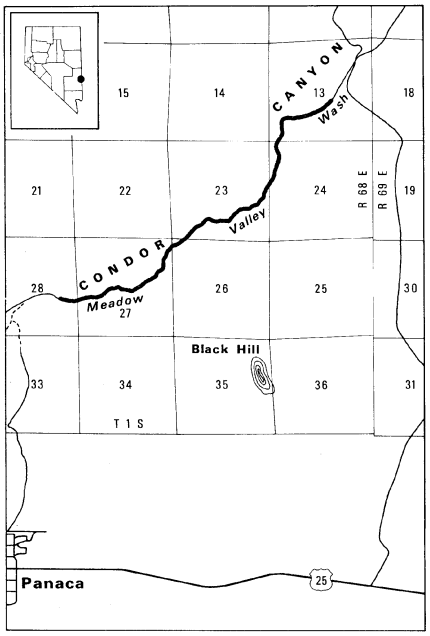


BIG SPRING SPINEDACE (*Lepidomeda mollispinis pratensis*)

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.

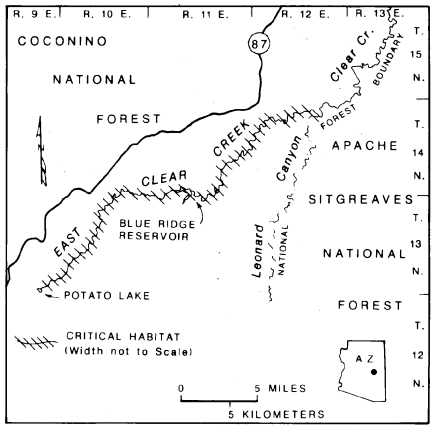
NOTE: Map follows:



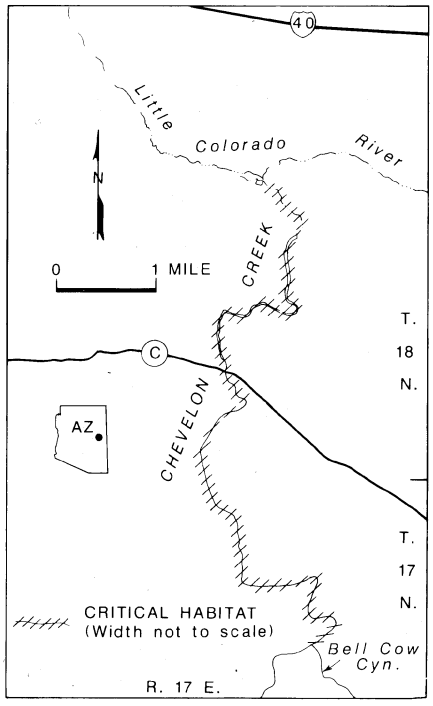
LITTLE COLORADO SPINEDACE (*Lepidomeda vittata*)

Arizona:

1. Coconino County. East Clear Creek; approximately 18 miles of stream extending from the confluence with Leonard Canyon (NE ¼ Sec. 11 T14N R12E) upstream to the Blue Ridge Reservoir dam (SE ¼ Sec. 33 T14N R11E), and approximately 13 miles of stream extending from the upper end of Blue Ridge Reservoir (east boundary SE ¼ Sec. 36 T14N R10E) upstream to Potato Lake (NE ¼ Sec. 1 T12N R9E).

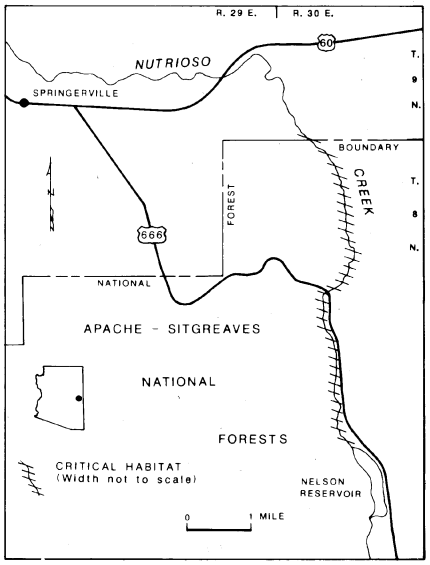


2. Navajo County. Chevelon Creek; approximately 8 miles of stream extending from the confluence with the Little Colorado River (NW¼ Sec. 23 T18N R17E) upstream to Bell Cow Canyon (SE¼ of the SW¼ Sec. 11 T17N R17E).



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 (NE¼ Sec. 29 T8N R30E).



Constituent elements, for all areas of critical habitat, include clean, permanent flowing water, with pools and a fine gravel or silt-mud substrate.

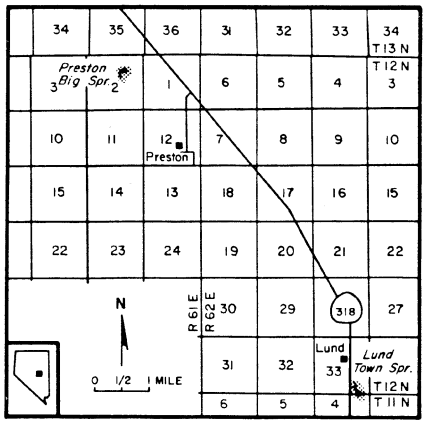
WHITE RIVER SPINEDACE (*Lepidomeda albivallis*)

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 ¼ Sec. 2.

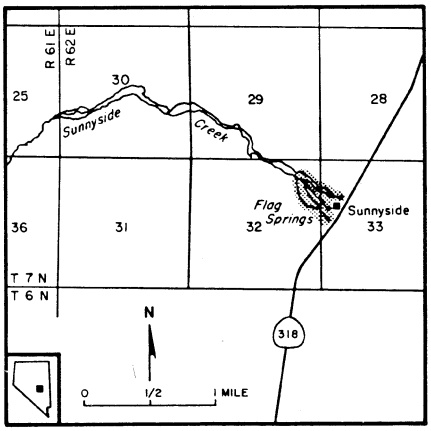
Lund Spring and associated outflows within T11N, R62E, NE ¼ of NE ¼ of Sec. 4; T12N, R62E, S ½ of SE ¼ Sec. 33.

NOTE: Map follows:



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 ½ of NE ¼ Sec. 32, SW ¼ of NW ¼ Sec. 33.

NOTE: Map follows:



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.

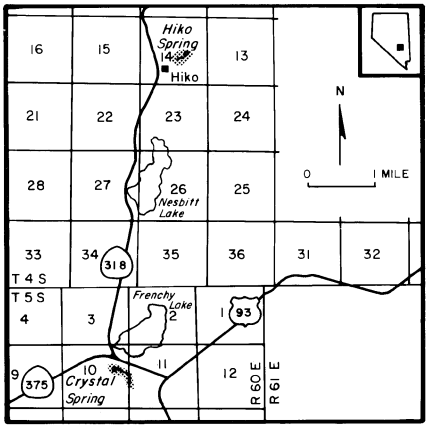
HIKO WHITE RIVER SPRINGFISH (*Crenichthys baileyi grandis*)

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, SW¼ of NE¼ Sec. 14 and NW¼ of SE¼ Sec. 14.

Crystal Springs and associated outflows within T5S, R60E, all of NE¼ of Sec. 10 and NE¼ of SE¼ Sec. 10, SW¼ of NW¼ Sec. 11 and NW¼ of SW¼ Sec. 11.

NOTE: Map follows:

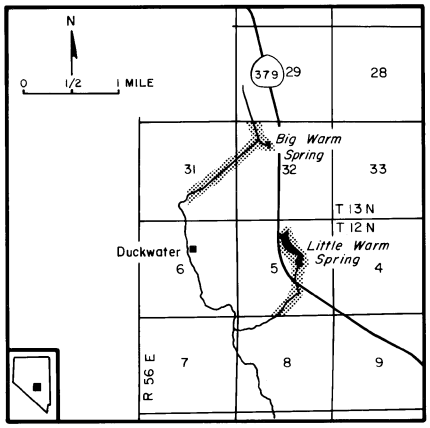


Known constituent elements include warmwater springs and their outflows and surrounding land areas that provide vegetation for cover and habitat for insects and other invertebrates on which the species feeds.

RAILROAD VALLEY SPRINGFISH (*Crenichthys nevadae*)

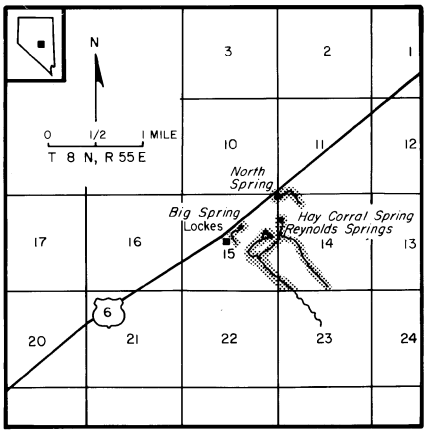
1. Nevada, Nye County, Duckwater area. Big Warm Spring and its outflow pools, streams, and marshes and a 50 foot riparian zone around the spring, outflow pools, streams, and marshes in T13N, R56E, NE¼ Sec. 31, SE¼ Sec. 31, NW¼ Sec. 32. Little Warm Spring and its outflow pools, streams, and marshes, and a 50-foot riparian zone around the spring, outflow pools, streams, and marshes in T12N, R56E, Sec. 5.

NOTE: Map follows:



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, SW¼ Sec. 11, NW¼ Sec. 14, SW¼ Sec. 14, SE¼ Sec. 15, NE¼ Sec. 15, SW¼ Sec. 15.

NOTE: Map follows:



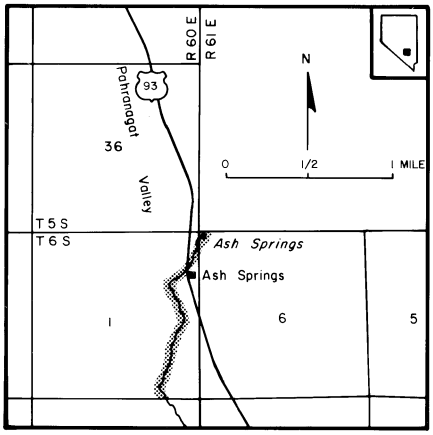
Known constituent elements for all areas of critical habitat of the Railroad Valley springfish include clear, unpolluted thermal spring waters ranging in temperature from 29° to 36 °C in pools; flowing channels; marshy areas with aquatic plants, insects, and mollusks.

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, E½ of E½ Sec. 1 and T6S, R61E, NW¼ of NW¼ Sec. 6.

NOTE: Map follows:



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).

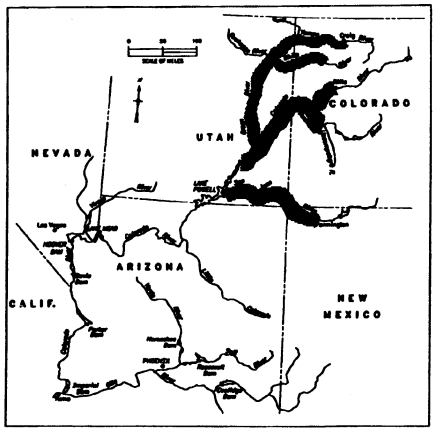
Colorado: Rio Blanco County; and Utah: Uintah County. The White River and its 100-year flood plain from Rio Blanco Lake Dam in T.1N., R.96W., sec. 6 (6th Principal Meridian) to the confluence with the Green River in T.9S., R.20E., sec. 4 (Salt Lake Meridian).

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.



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).

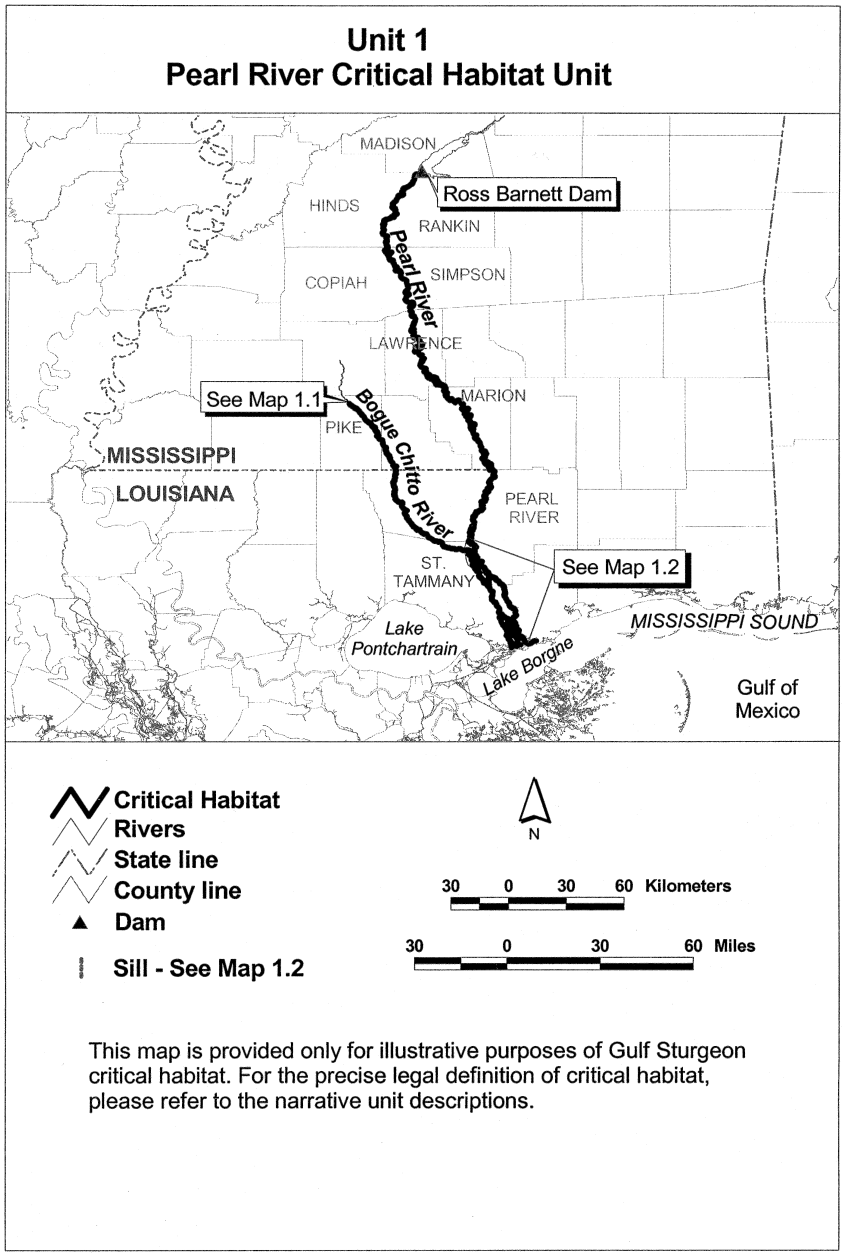
(3) Gulf sturgeon is under the joint jurisdiction of the U.S. Fish and Wildlife Service (FWS) and National Marine Fisheries Service (NMFS). The FWS will maintain primary responsibility for recovery actions and NMFS will assist in and continue to fund recovery actions pertaining to estuarine and marine 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.

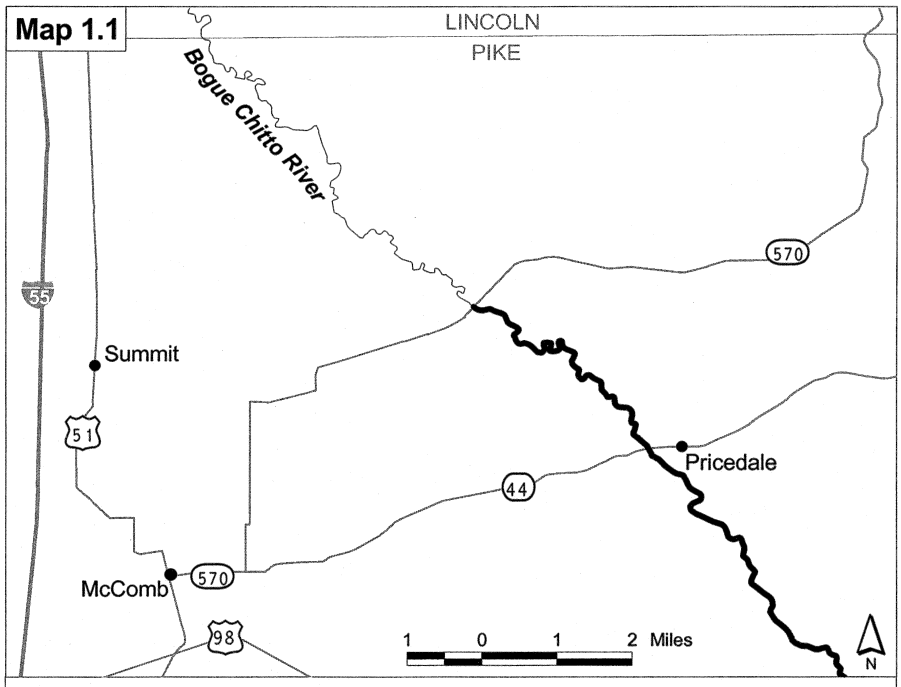
(4) The textual unit descriptions below are the definitive source for determining the critical habitat boundaries. General location maps by unit are provided at the end of each unit description and are provided for general guidance purposes only, and not as a definitive source for determining critical 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.

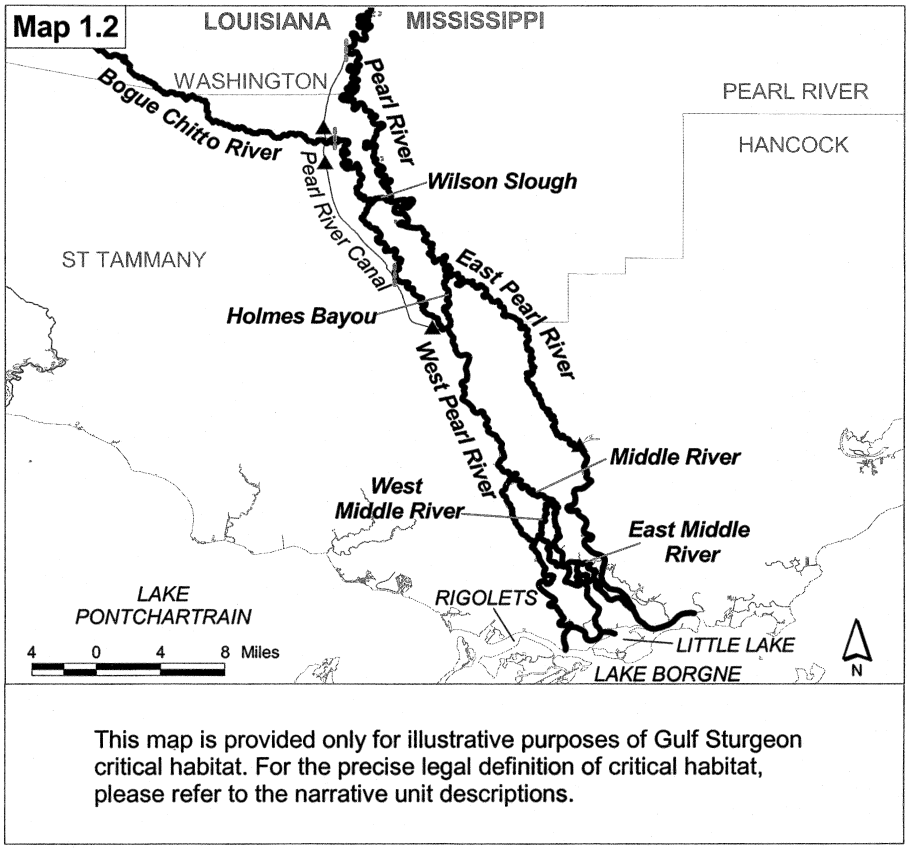
(i) Unit 1 includes the Pearl River main stem from the spillway of the Ross Barnett Dam, Hinds and Rankin Counties, Mississippi, downstream to where the main stem river drainage discharges at its mouth joining Lake Borgne, Little Lake, or The Rigolets in Hancock County, Mississippi, and St. Tammany Parish, 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:


Unit 1
Pearl River Critical Habitat Unit
MADISON
Ross Barnett Dam
HINDS
RANKIN
Pearl River
COPIAH
SIMPSON
LAWRENCE
See Map 1.1
Bogue Chitto River
MARION
PIKE
MISSISSIPPI
LOUISIANA
PEARL RIVER
See Map 1.2
ST. TAMMANY
Lake Pontchartrain
MISSISSIPPI SOUND
Lake Borgne
Gulf of Mexico
Critical Habitat
Rivers
State line
County line
Dam
Sill - See Map 1.2
N
30 0 30 60 Kilometers
30 0 30 60 Miles
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.



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.

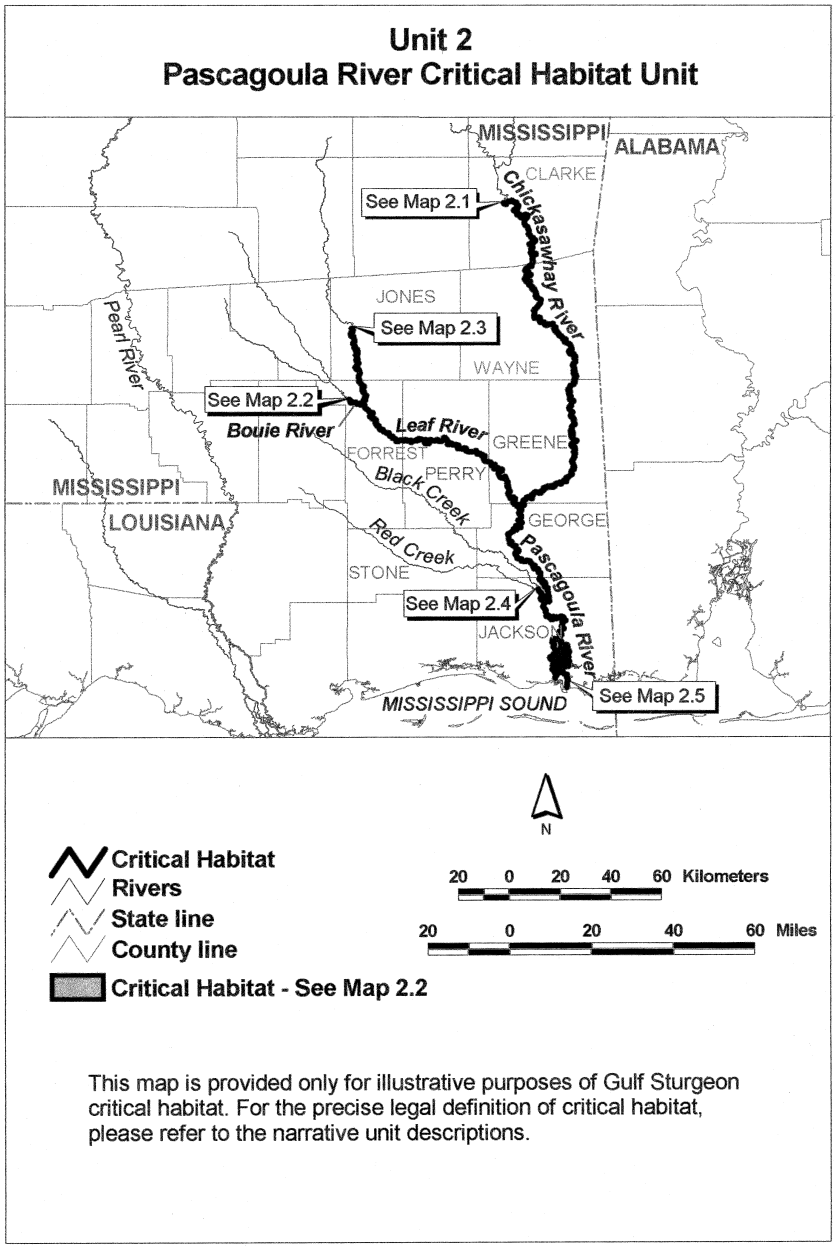


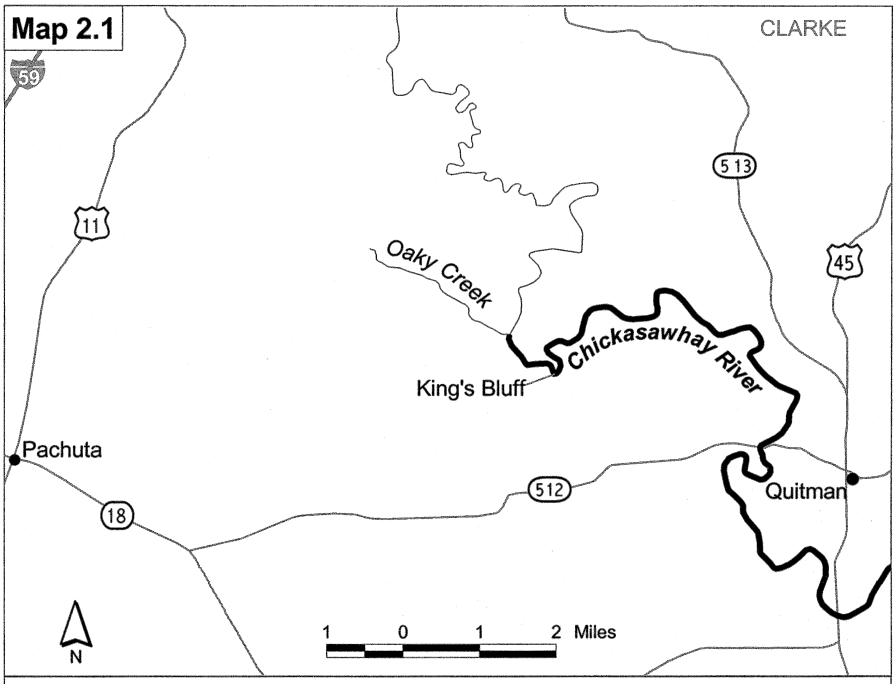
(6) *Unit 2:* Pascagoula River System in Forrest, Perry, Greene, George, Jackson, Clarke, Jones, and Wayne Counties, Mississippi.

(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.

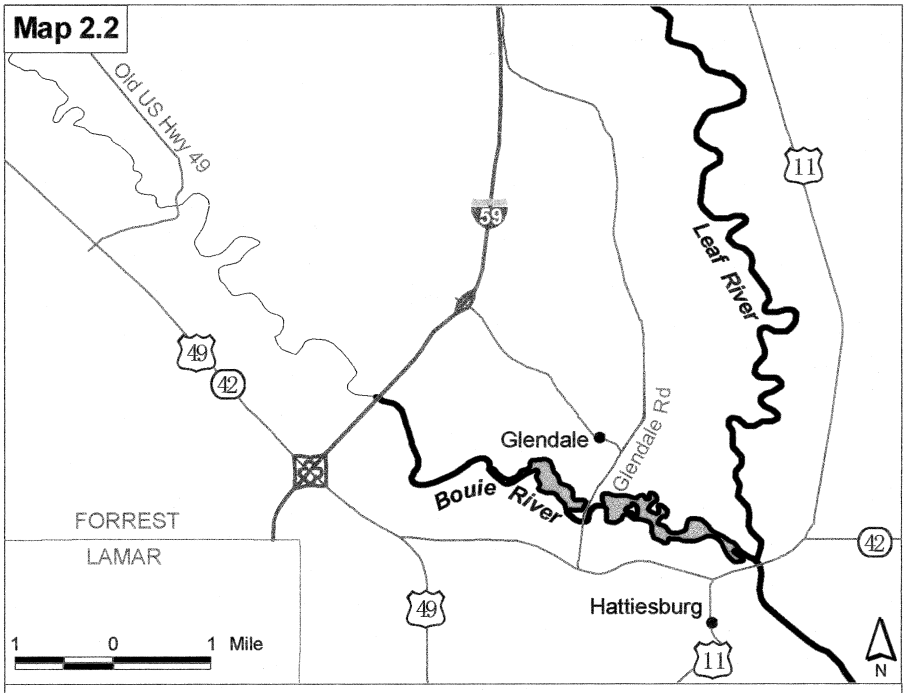
(ii) Major shipping channels in this unit are excluded under section 4(b)(2) of the Act.

(iii) Maps of Unit 2 follow:

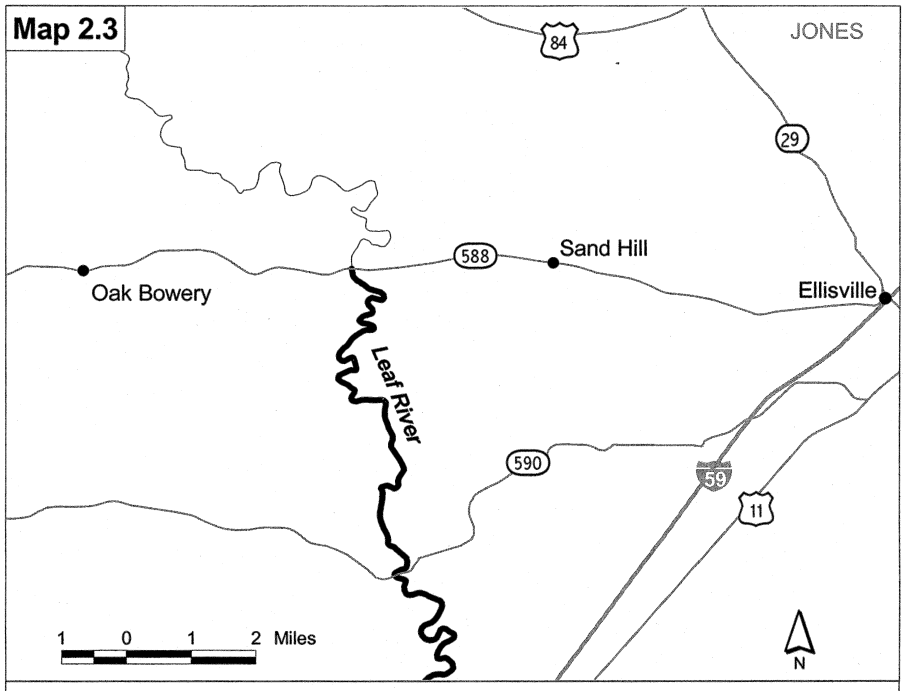

Unit 2
Pascagoula River Critical Habitat Unit
MISSISSIPPI
ALABAMA
CLARKE
See Map 2.1
Chickasawhay River
JONES
See Map 2.3
Pearl River
WAYNE
See Map 2.2
Bouie River
Leaf River
GREENE
FORREST
PERRY
Black Creek
MISSISSIPPI
LOUISIANA
GEORGE
Red Creek
Pascagoula River
STONE
See Map 2.4
JACKSON
MISSISSIPPI SOUND
See Map 2.5
N
Critical Habitat
Rivers
State line
County line
Critical Habitat - See Map 2.2
20 0 20 40 60 Kilometers
20 0 20 40 60 Miles
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.



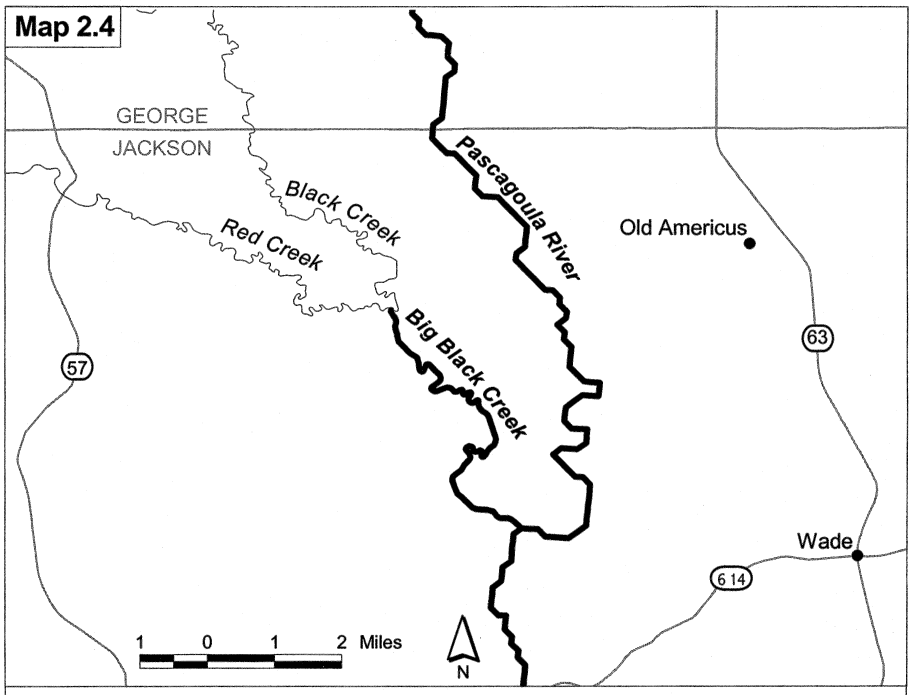
This map is provided only for illustrative purposes of Gulf Sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.



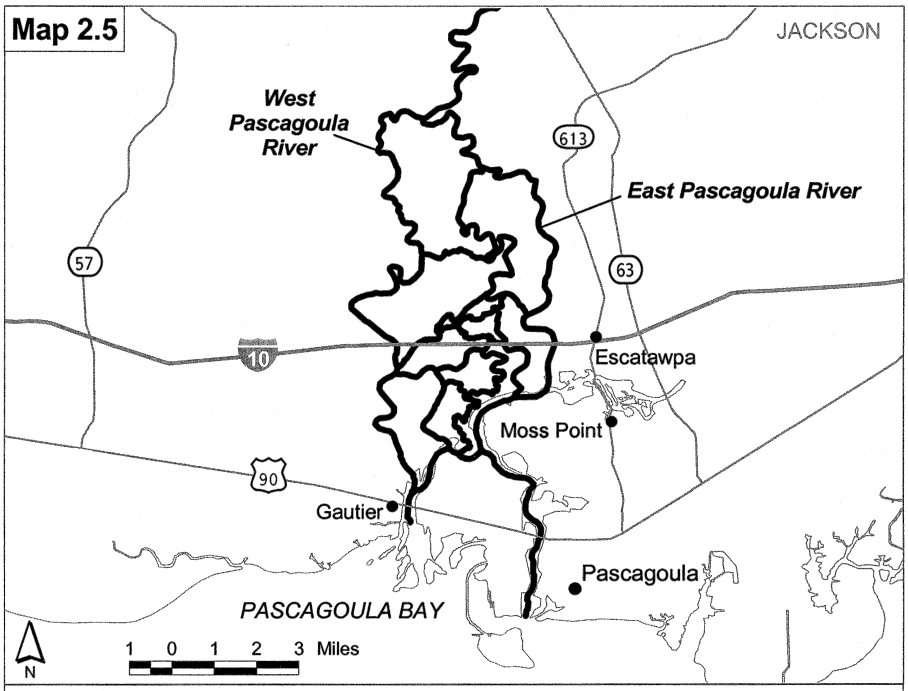
This map is provided only for illustrative purposes of Gulf Sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.



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.



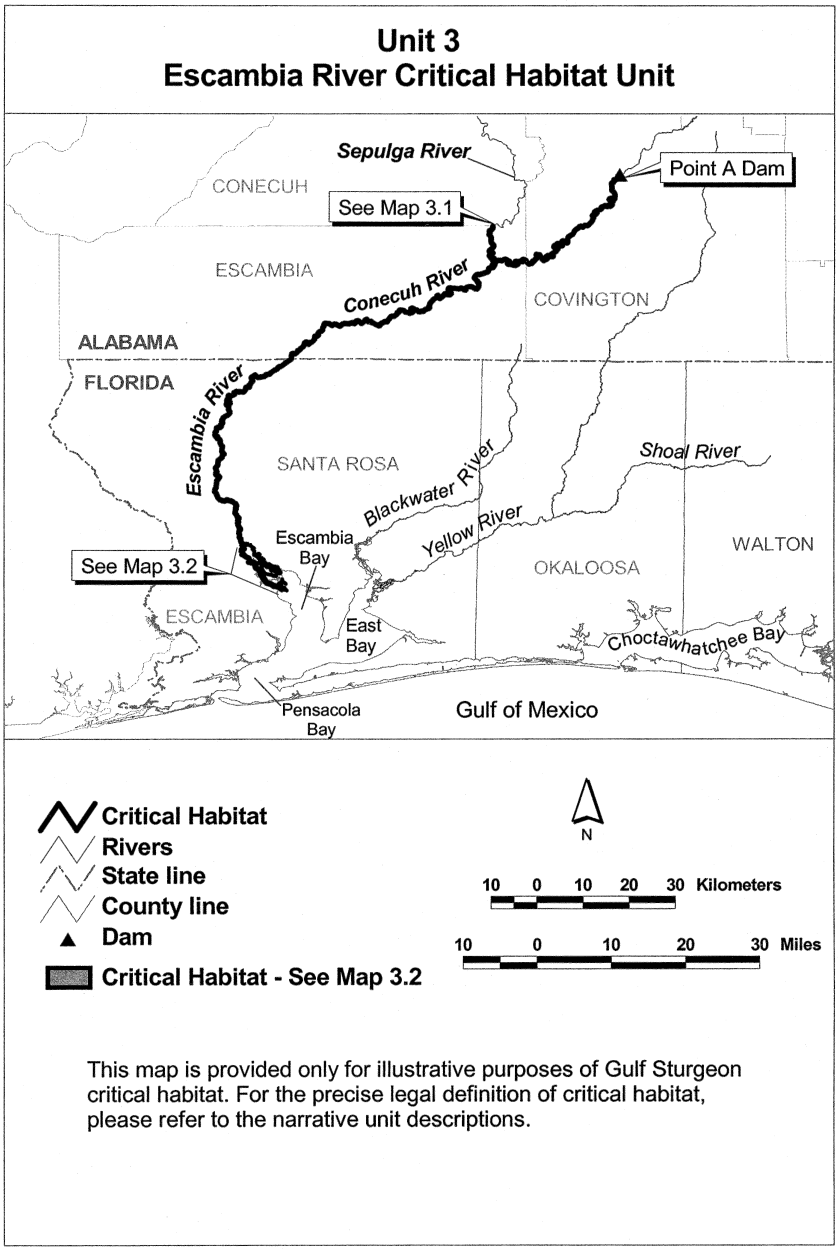
This map is provided only for illustrative purposes of Gulf Sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

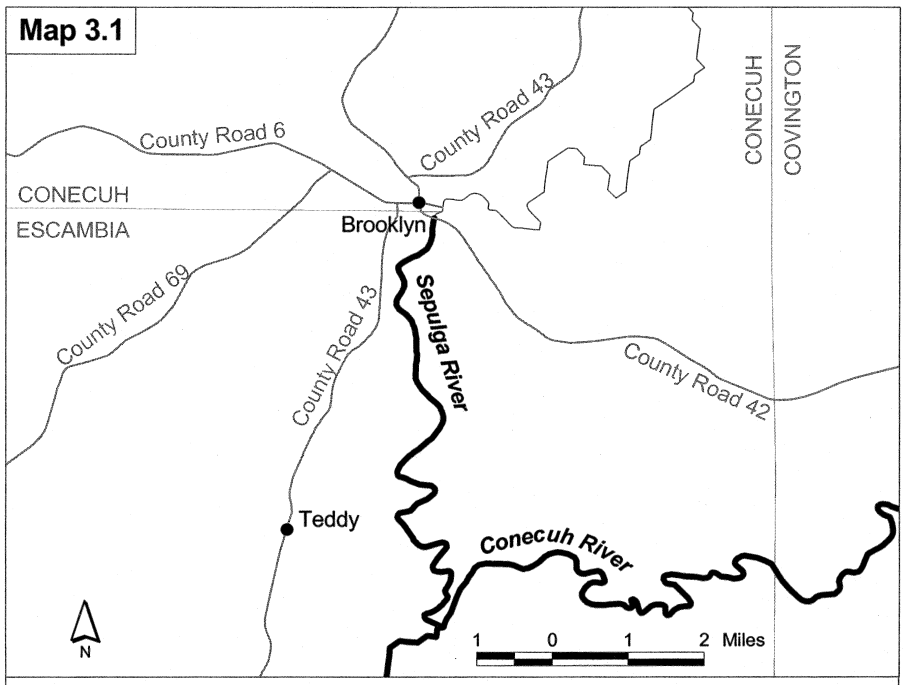


(7) *Unit 3:* Escambia River System in Santa Rosa and Escambia Counties, Florida and Escambia, Conecuh, and Covington Counties, Alabama.

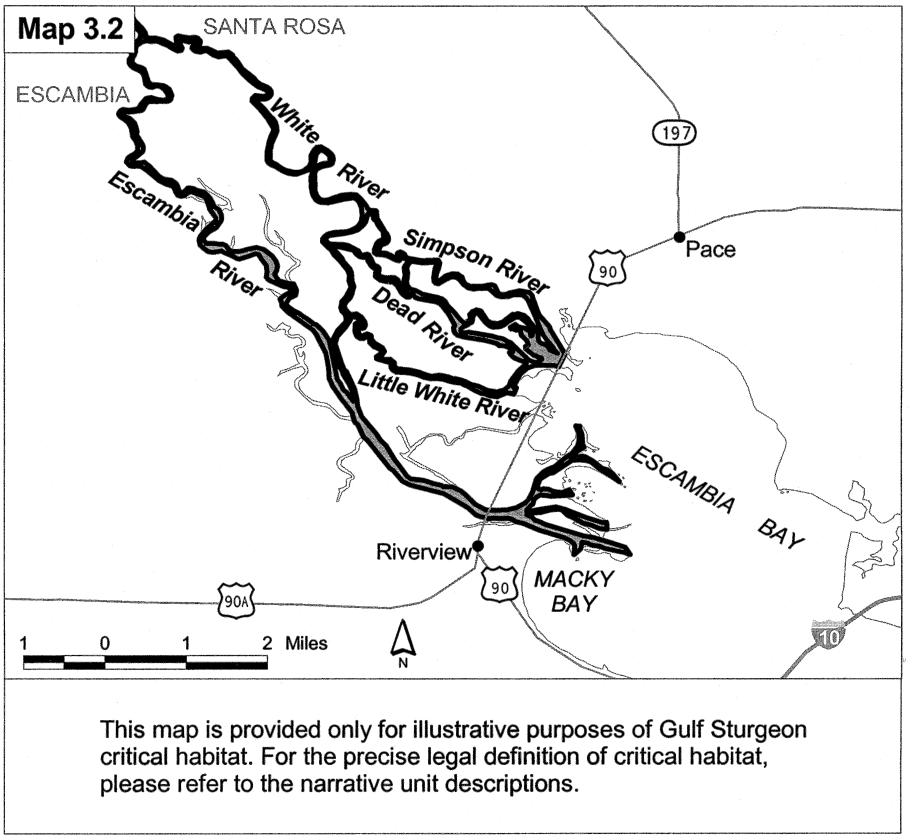
(i) Unit 3 includes the Conecuh River main stem beginning just downstream of the spillway of Point A Dam, Covington County, Alabama, downstream to the Florida State line, where its name changes to the Escambia River, Escambia County, Alabama, and Escambia and Santa Rosa Counties, Florida. It includes 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:


Unit 3
Escambia River Critical Habitat Unit
Sepulga River
Point A Dam
CONECUH
See Map 3.1
ESCAMBIA
Conecuh River
COVINGTON
ALABAMA
FLORIDA
Escambia River
SANTA ROSA
Blackwater River
Shoal River
Escambia Bay
Yellow River
WALTON
See Map 3.2
OKALOOSA
ESCAMBIA
East Bay
Choctawhatchee Bay
Pensacola Bay
Gulf of Mexico
Critical Habitat
Rivers
State line
County line
Dam
Critical Habitat - See Map 3.2
N
10 0 10 20 30 Kilometers
10 0 10 20 30 Miles
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.



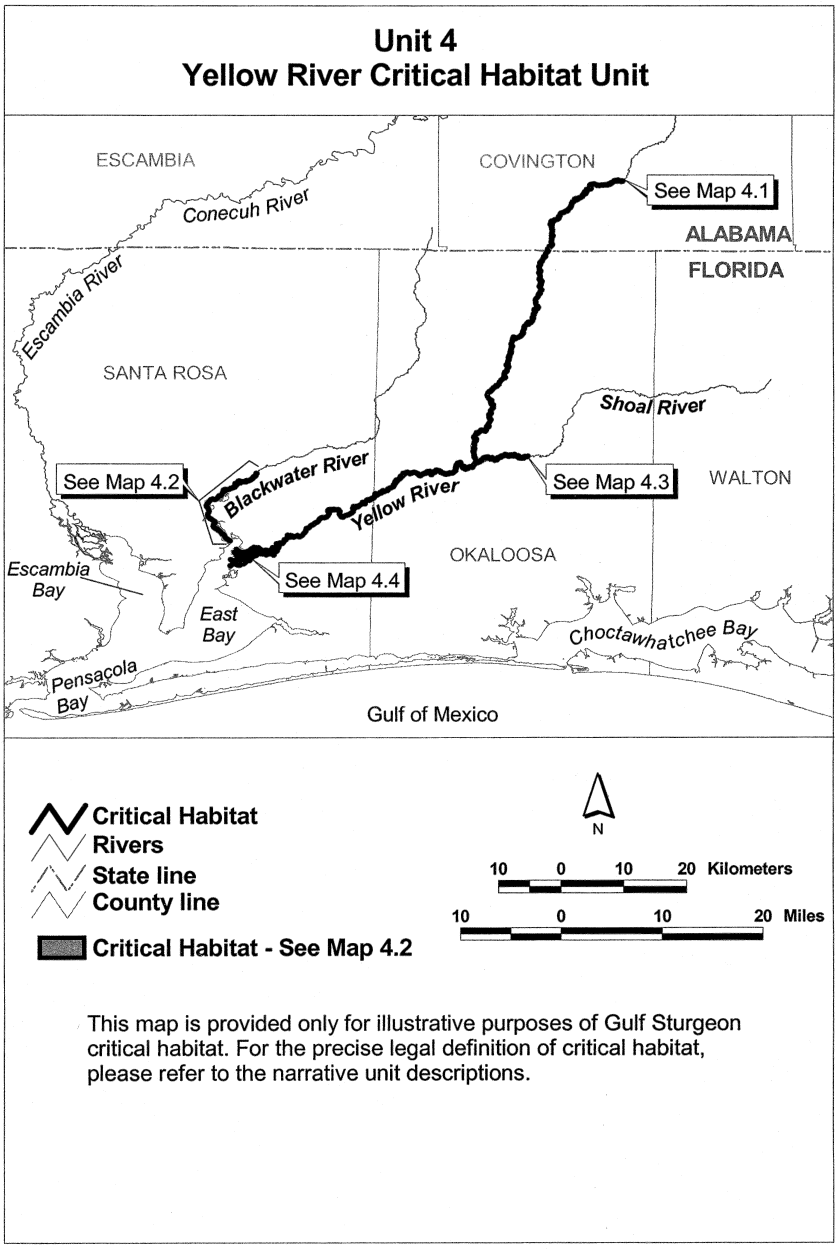
This map is provided only for illustrative purposes of Gulf Sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

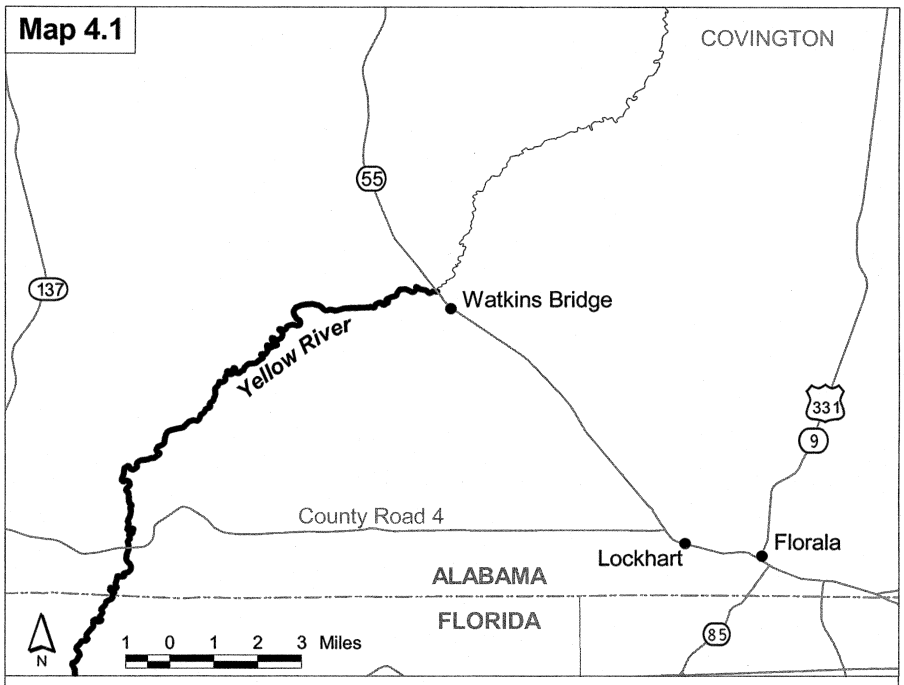


(8) *Unit 4:* Yellow River System in Santa Rosa and Okaloosa Counties, Florida and Covington County, Alabama.

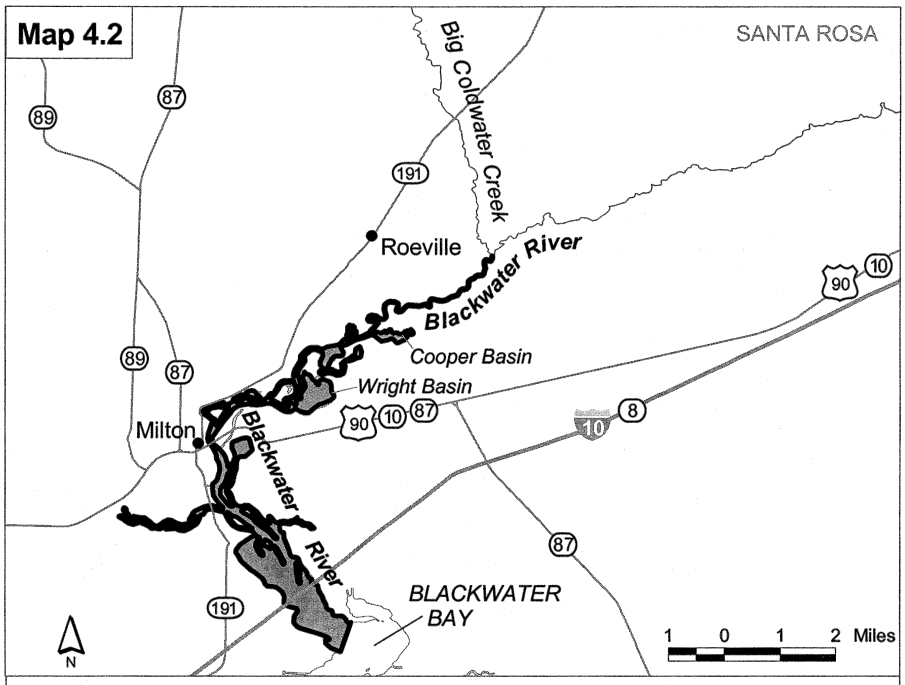
(i) Unit 4 includes the Yellow River main stem from Alabama State Highway 55, Covington County, Alabama, downstream to its discharge at Blackwater Bay, Santa Rosa County, Florida. All Yellow River distributaries (including Weaver River and Skim Lake) discharging into Blackwater Bay are included. The 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:

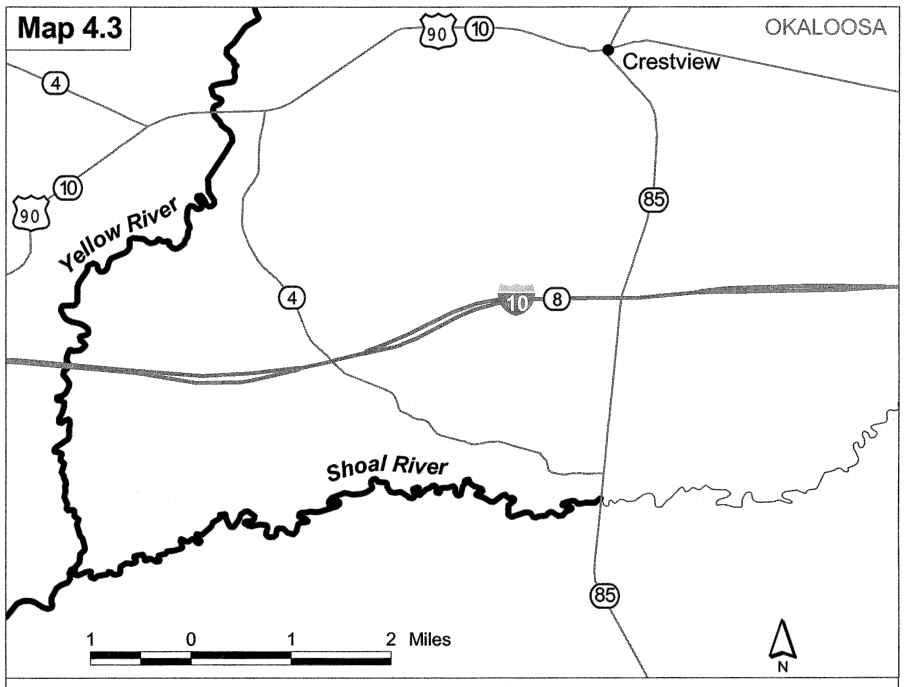

Unit 4
Yellow River Critical Habitat Unit
ESCAMBIA
COVINGTON
Conecuh River
See Map 4.1
ALABAMA
FLORIDA
Escambia River
SANTA ROSA
Shoal River
See Map 4.2
Blackwater River
Yellow River
See Map 4.3
WALTON
OKALOOSA
Escambia Bay
See Map 4.4
East Bay
Choctawhatchee Bay
Pensacola Bay
Gulf of Mexico
Critical Habitat
Rivers
State line
County line
Critical Habitat - See Map 4.2
N
10 0 10 20 Kilometers
10 0 10 20 Miles
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.



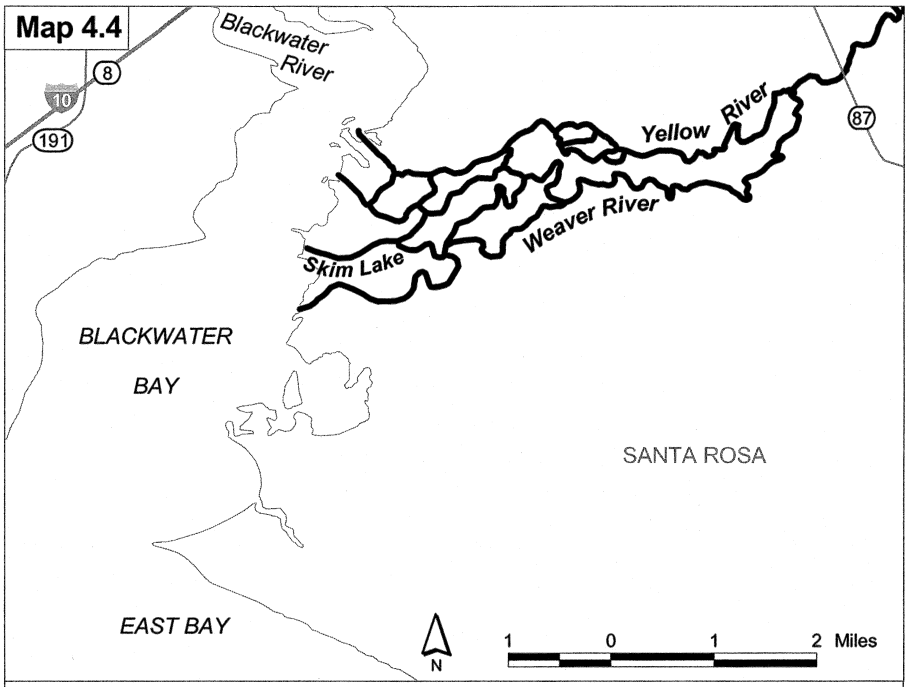
This map is provided only for illustrative purposes of Gulf Sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.



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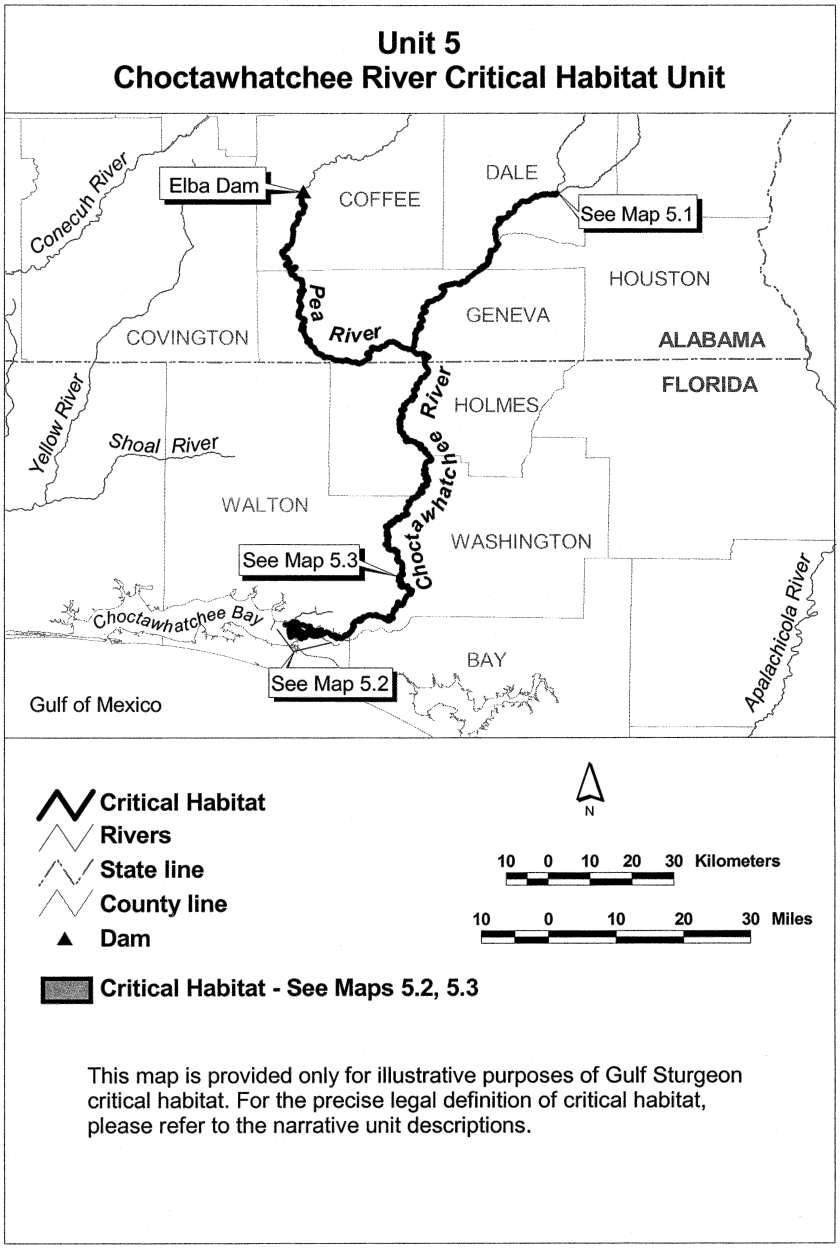
This map is provided only for illustrative purposes of Gulf Sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

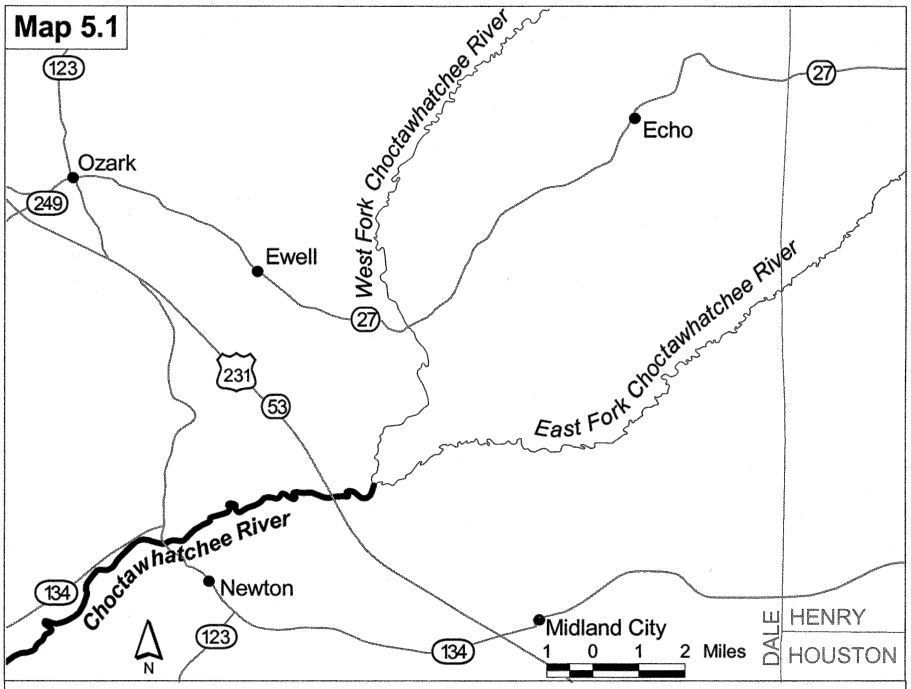


(9) *Unit 5:* Choctawhatchee River System in Holmes, Washington, and Walton Counties, Florida and Dale, Coffee, Geneva, and Houston Counties, Alabama.

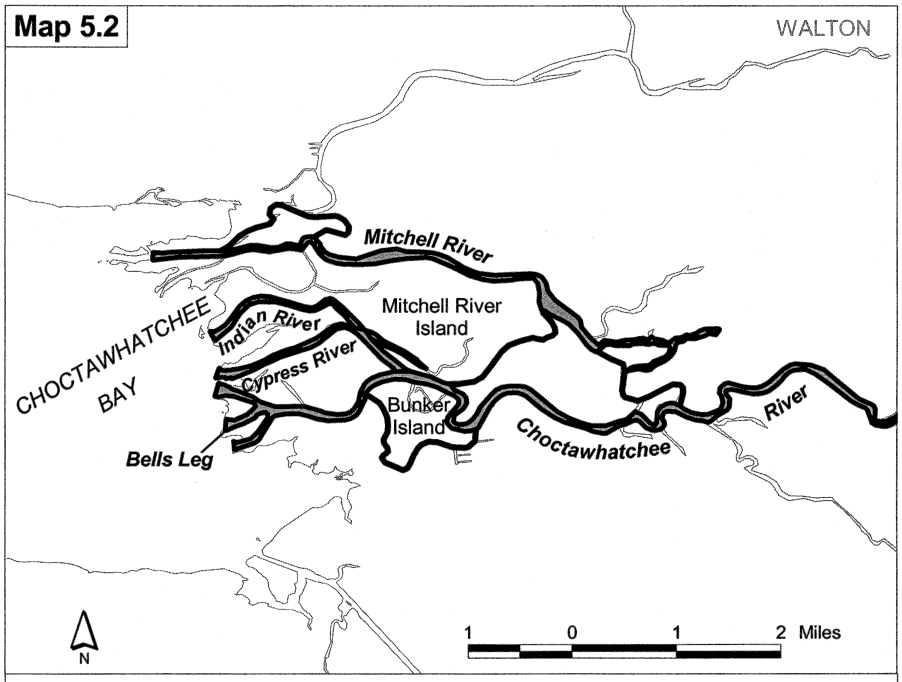
(i) Unit 5 includes the Choctawhatchee River main stem from its confluence with the west and east fork of the Choctawhatchee River, Dale County, Alabama, downstream to its discharge at Choctawhatchee Bay, Walton County, Florida. The distributaries discharging into Choctawhatchee Bay known as Mitchell 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:

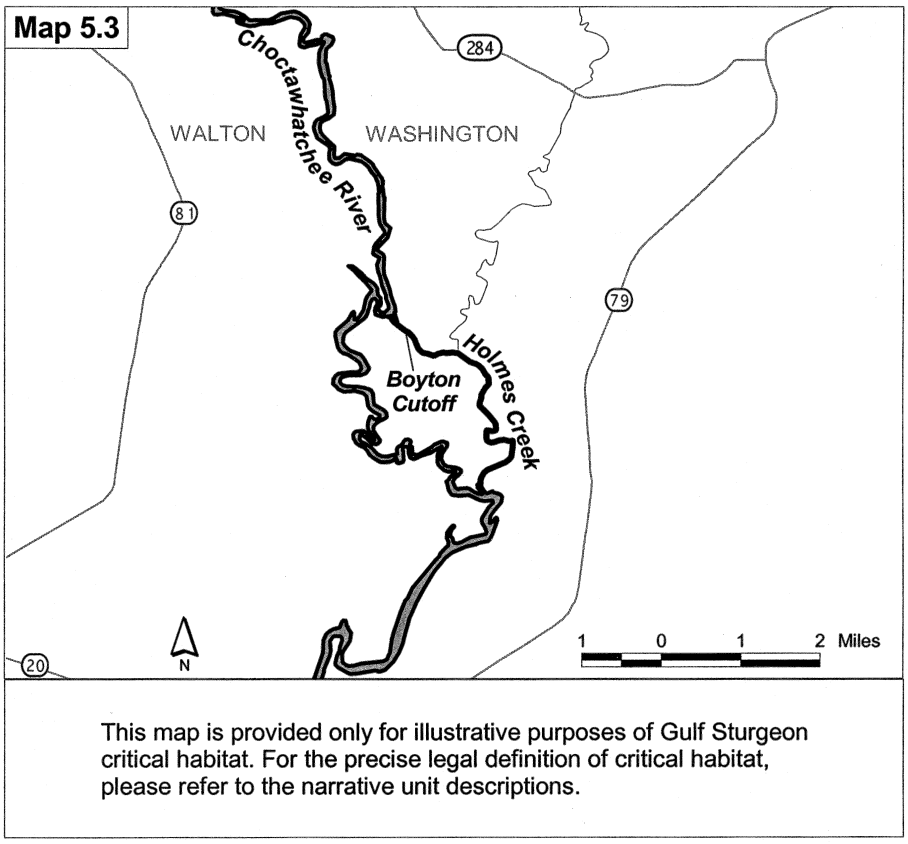

Unit 5
Choctawhatchee River Critical Habitat Unit
Conecuh River
Elba Dam
COFFEE
DALE
See Map 5.1
HOUSTON
Pea River
GENEVA
COVINGTON
ALABAMA
FLORIDA
Yellow River
Shoal River
HOLMES
Choctawhatchee River
WALTON
WASHINGTON
See Map 5.3
Choctawhatchee Bay
BAY
See Map 5.2
Gulf of Mexico
Apalachicola River
Critical Habitat
Rivers
State line
County line
Dam
N
10 0 10 20 30 Kilometers
10 0 10 20 30 Miles
Critical Habitat - See Maps 5.2, 5.3
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.



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.



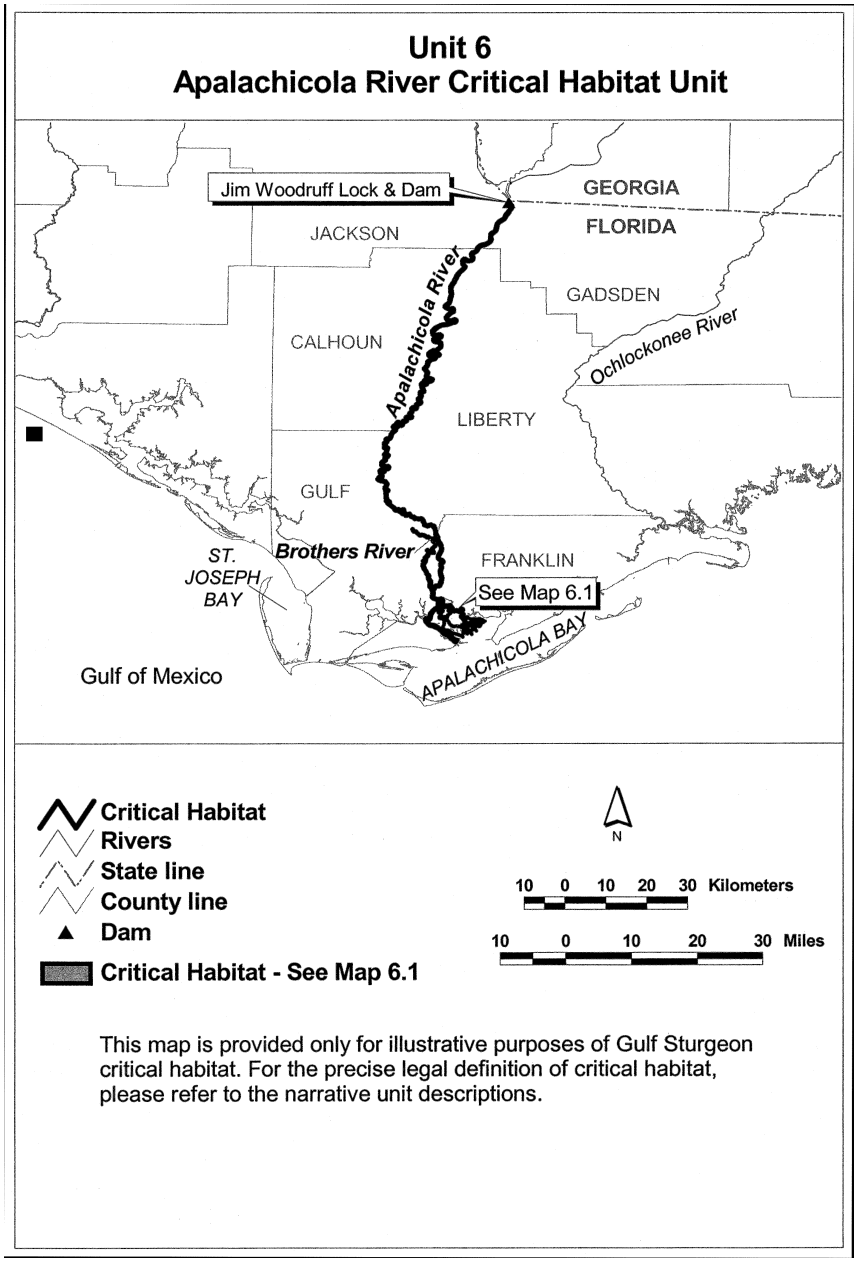
This map is provided only for illustrative purposes of Gulf Sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

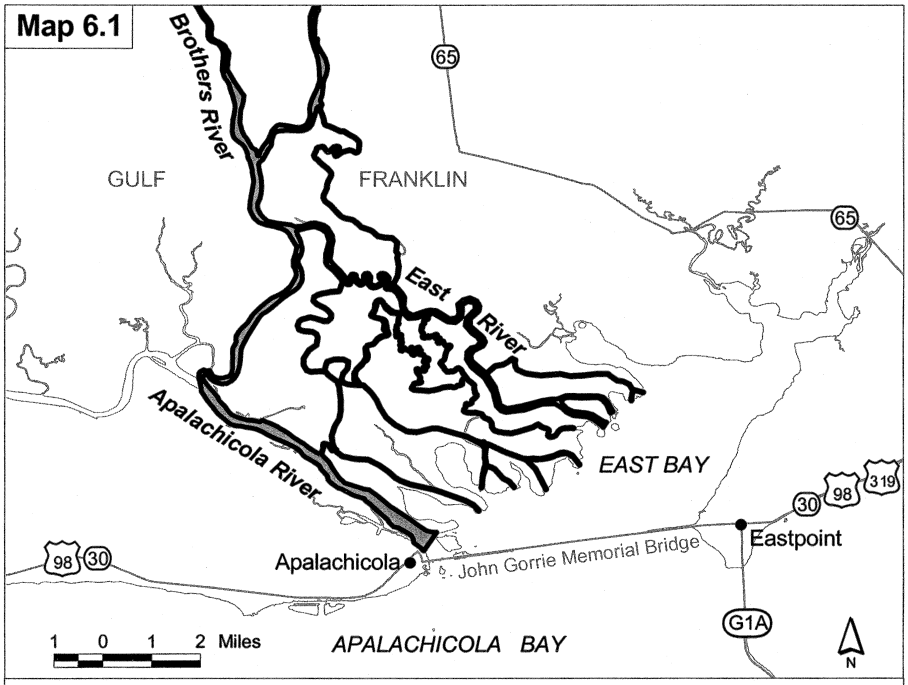


(10) *Unit 6:* Apalachicola River System in Franklin, Gulf, Liberty, Calhoun, Jackson, and Gadsen Counties, Florida.

(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:

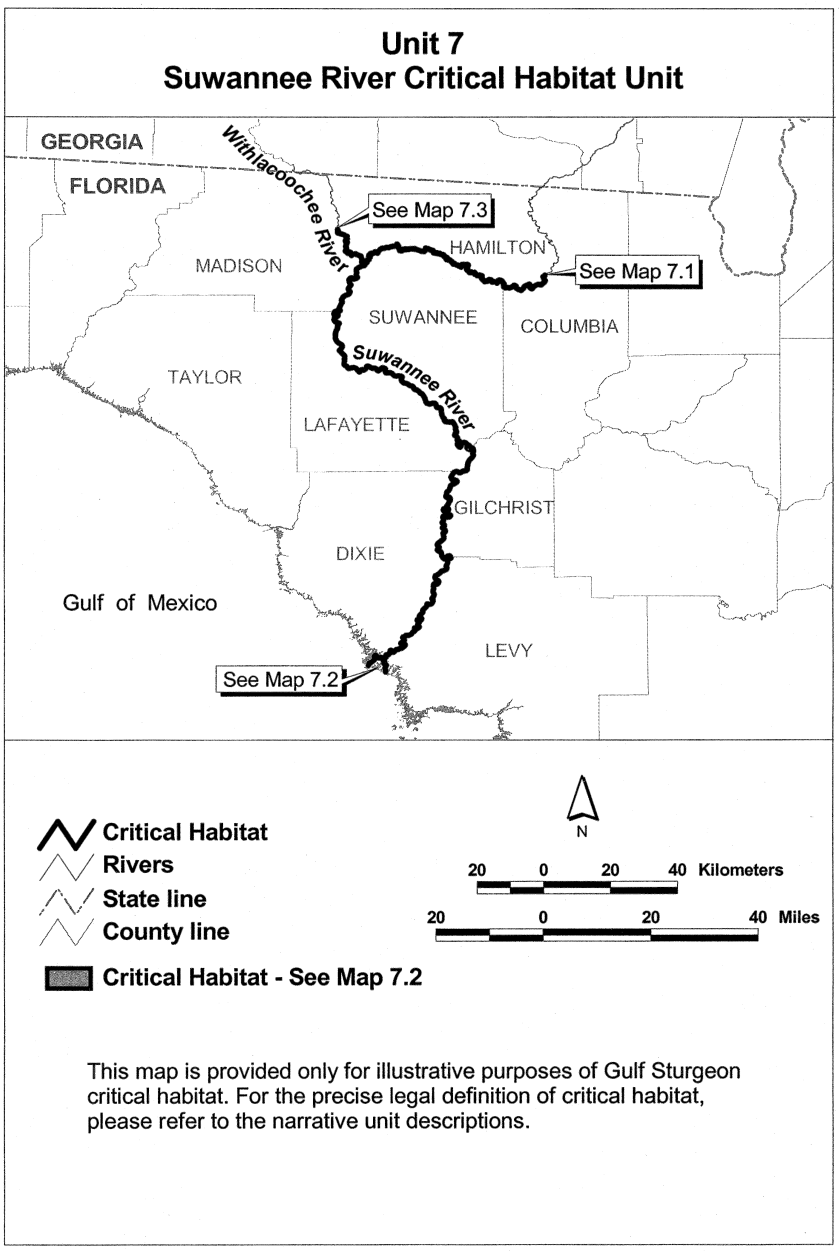

Unit 6
Apalachicola River Critical Habitat Unit
Jim Woodruff Lock & Dam
GEORGIA
FLORIDA
JACKSON
GADSDEN
CALHOUN
Apalachicola River
Ochlockonee River
LIBERTY
GULF
Brothers River
ST. JOSEPH BAY
FRANKLIN
See Map 6.1
APALACHICOLA BAY
Gulf of Mexico
Critical Habitat
Rivers
State line
County line
Dam
Critical Habitat - See Map 6.1
N
10 0 10 20 30 Kilometers
10 0 10 20 30 Miles
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.

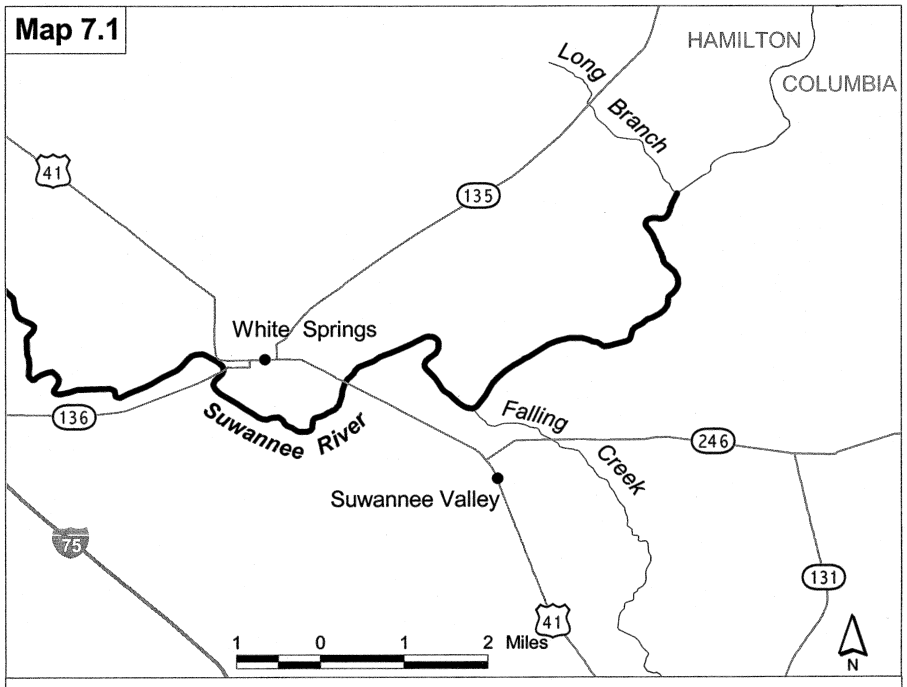


(11) *Unit 7:* Suwannee River System in Hamilton, Suwannee, Madison, Lafayette, Gilchrist, Levy, Dixie, and Columbia Counties, Florida.

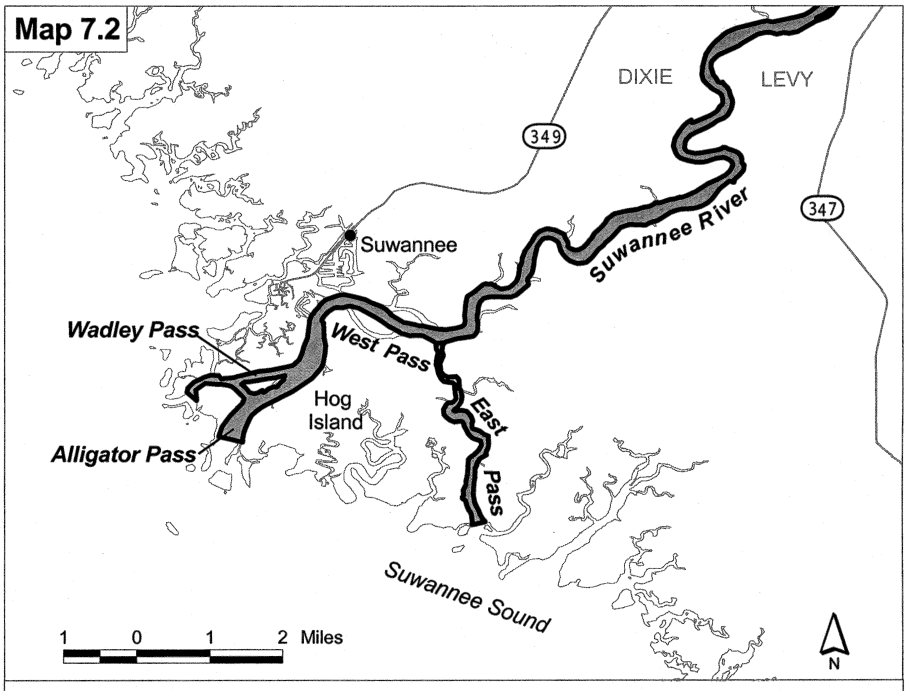
(i) Unit 7 includes the Suwannee River main stem, beginning from its confluence with Long Branch Creek, Hamilton County, Florida, downstream to the mouth of the Suwannee River. It includes all the Suwannee River distributaries, including the East Pass, West Pass, Wadley Pass, and Alligator Pass, Dixie 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:

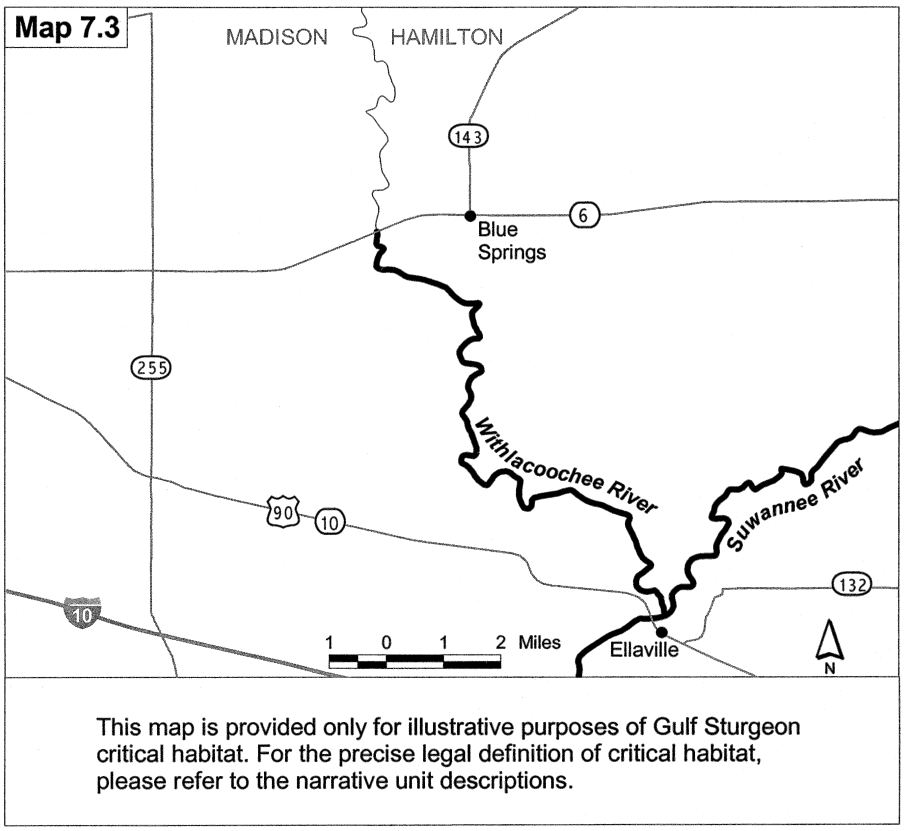

Unit 7
Suwannee River Critical Habitat Unit
GEORGIA
FLORIDA
Withlacoochee River
See Map 7.3
HAMILTON
See Map 7.1
MADISON
SUWANNEE
COLUMBIA
Suwannee River
TAYLOR
LAFAYETTE
GILCHRIST
DIXIE
Gulf of Mexico
LEVY
See Map 7.2
Critical Habitat
Rivers
State line
County line
Critical Habitat - See Map 7.2
N
20 0 20 40 Kilometers
20 0 20 40 Miles
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.



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.



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.



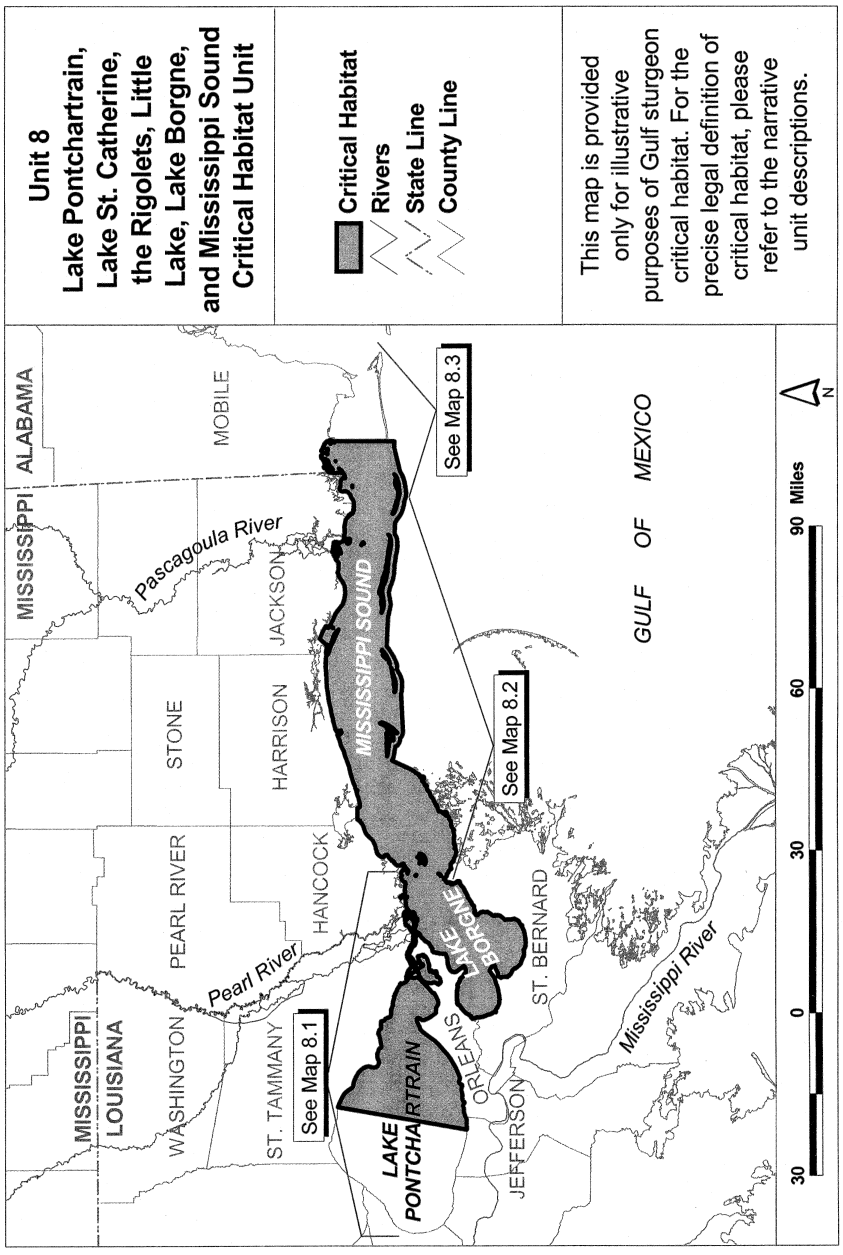
(12) *Unit 8:* Lake Pontchartrain, Lake St. Catherine, The Rigolets, Little Lake, Lake Borgne, and Mississippi Sound in Jefferson, Orleans, St. Tammany, and St. Bernard Parish, Louisiana, Hancock, Jackson, and Harrison Counties in Mississippi, and in Mobile County, Alabama.

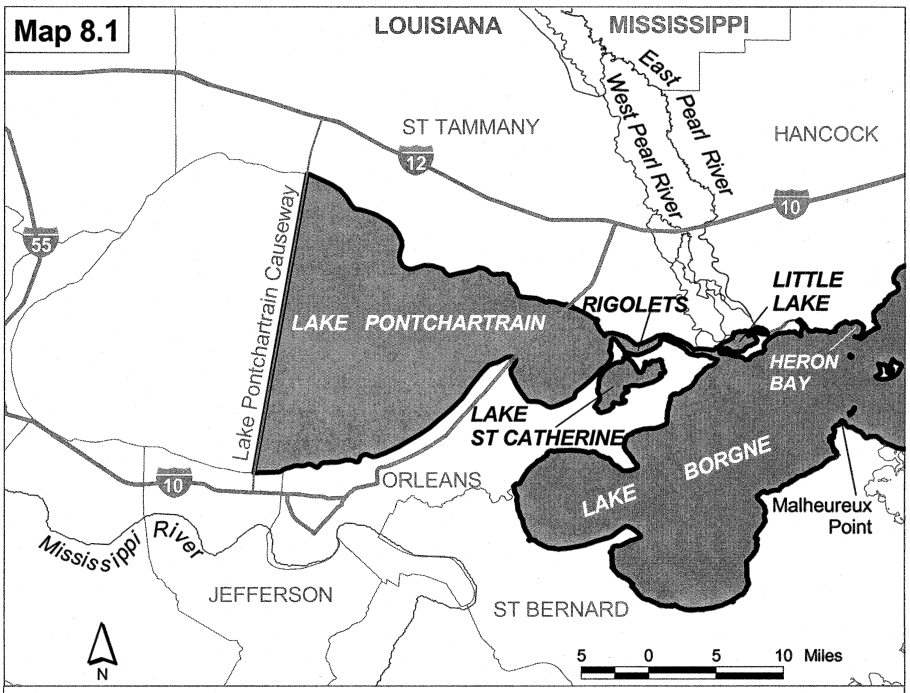
(i) Unit 8 encompasses Lake Pontchartrain east of the Lake Pontchartrain Causeway, all of Little Lake, The Rigolets, Lake St. Catherine, Lake Borgne, including Heron Bay, and the Mississippi Sound. Critical habitat follows the shorelines around the perimeters of each included lake. The Mississippi Sound 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.

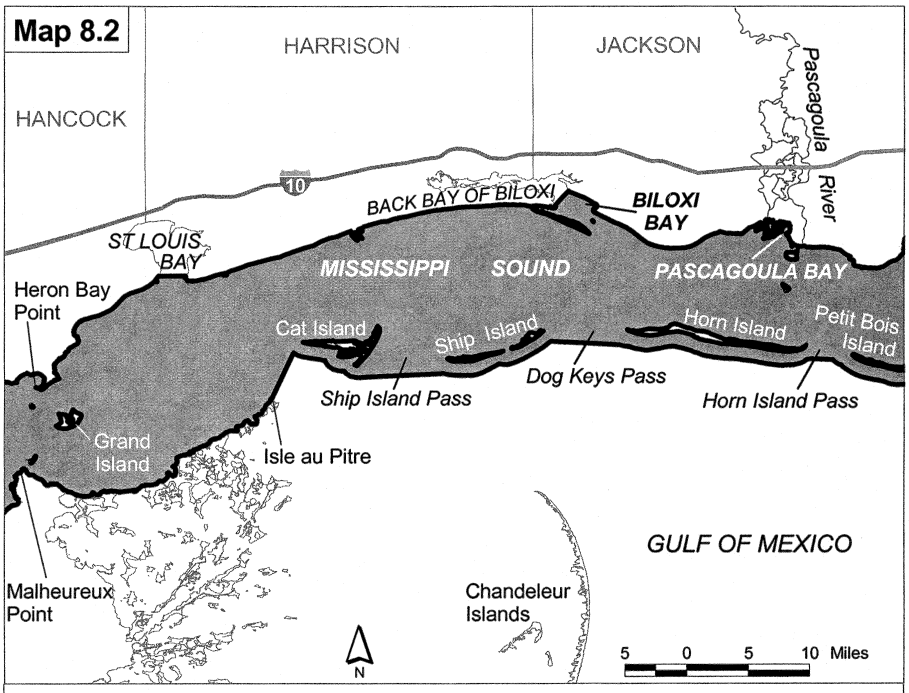
(ii) Major shipping channels in this unit, as identified on standard navigation charts and marked by buoys, are excluded under section 4(b)(2) of the Act.

(iii) Maps of Unit 8 follow:

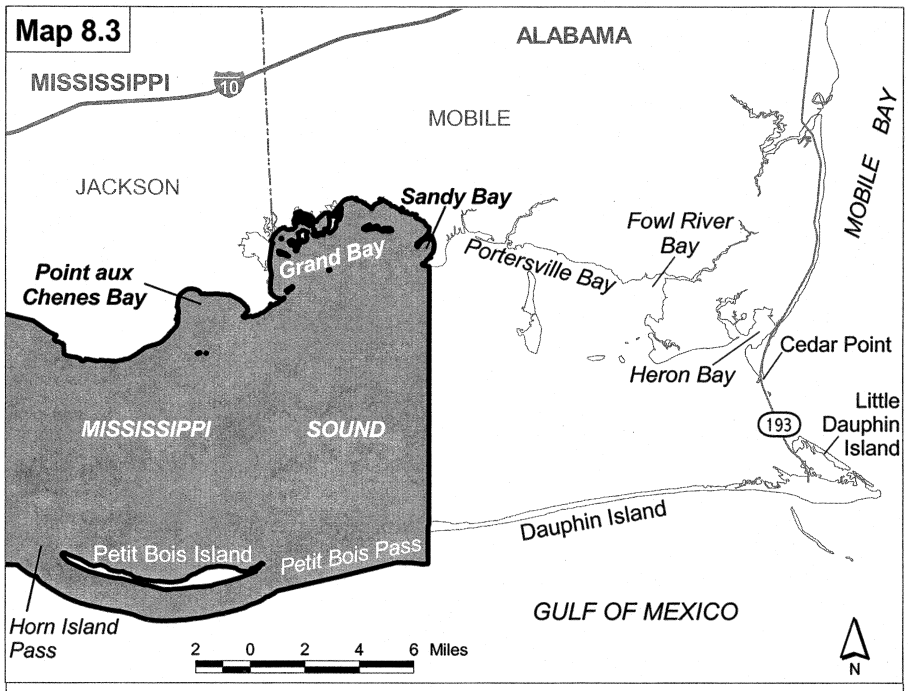

Unit 8
Lake Pontchartrain, Lake St. Catherine, the Rigolets, Little Lake, Lake Borgne, and Mississippi Sound Critical Habitat Unit
Critical Habitat
Rivers
State Line
County Line
This map is provided only for illustrative purposes of Gulf sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.
MISSISSIPPI
ALABAMA
LOUISIANA
WASHINGTON
STONE
PEARL RIVER
HARRISON
JACKSON
MOBILE
ST. TAMMANY
HANCOCK
ORLEANS
ST. BERNARD
JEFFERSON
Pascagoula River
Pearl River
Mississippi River
MISSISSIPPI SOUND
LAKE PONTCHARTRAIN
LAKE BORGNE
See Map 8.1
See Map 8.2
See Map 8.3
GULF OF MEXICO
30
0
30
60
90 Miles
N



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.



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.

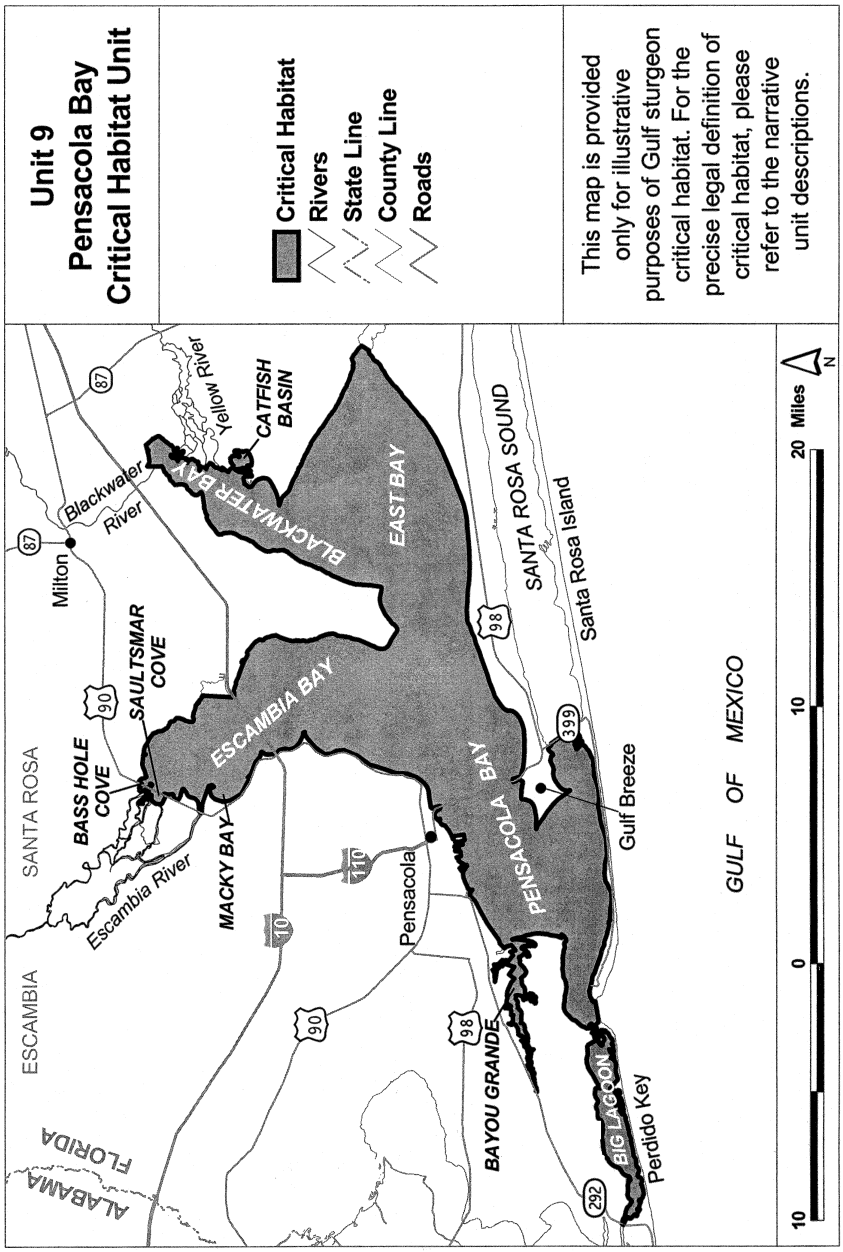


(13) *Unit 9:* Pensacola Bay System in Escambia and Santa Rosa Counties, Florida.

(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:

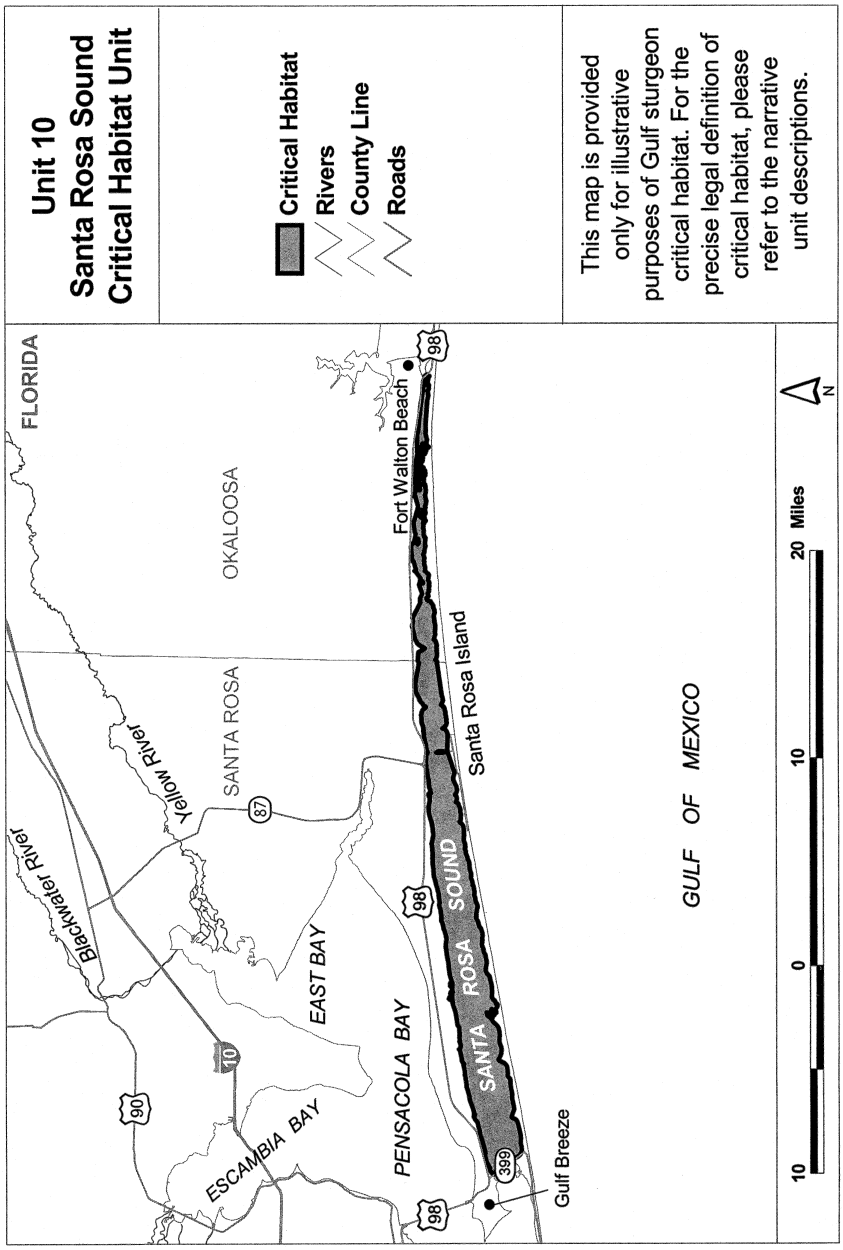


(14) *Unit 10:* Santa Rosa Sound in Escambia, Santa Rosa, and Okaloosa Counties, Florida.

(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.

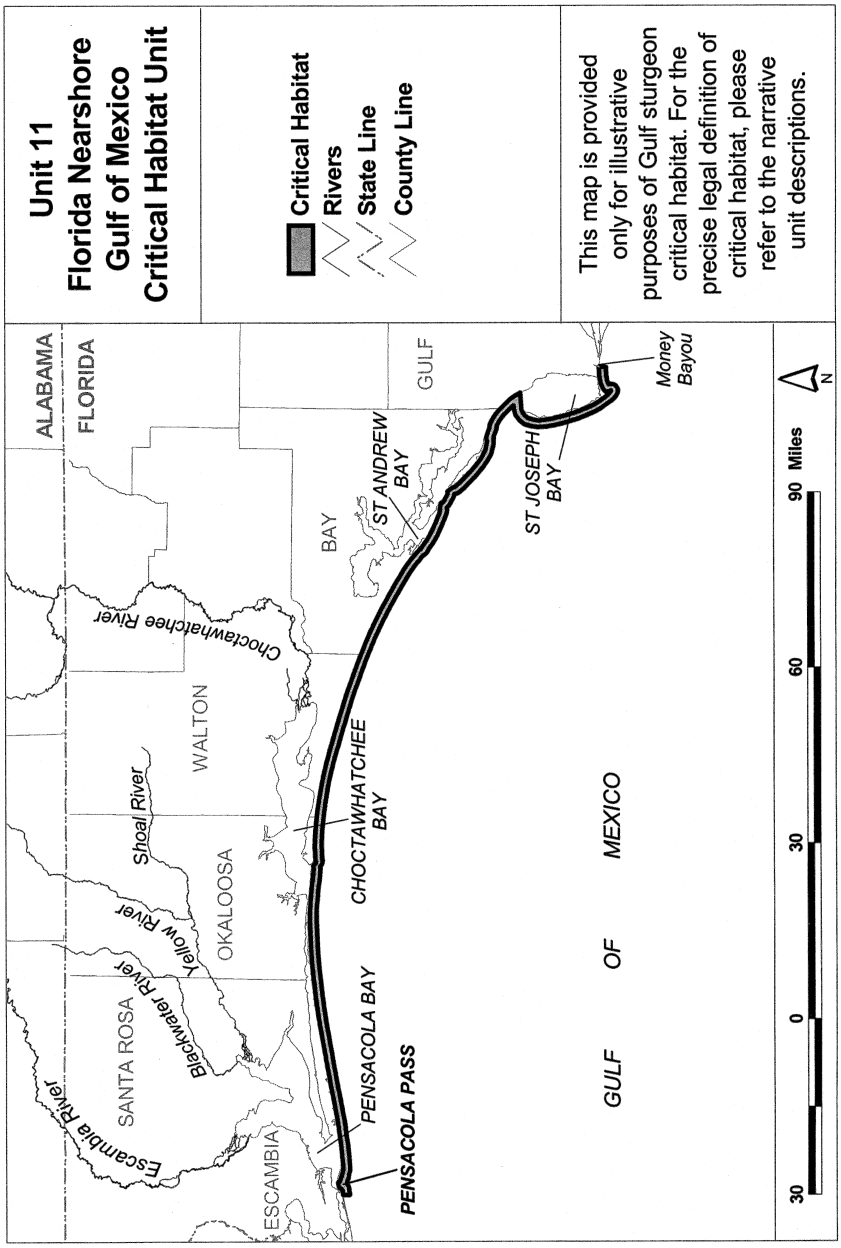
(ii) A Map of Unit 10 follows:



(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:

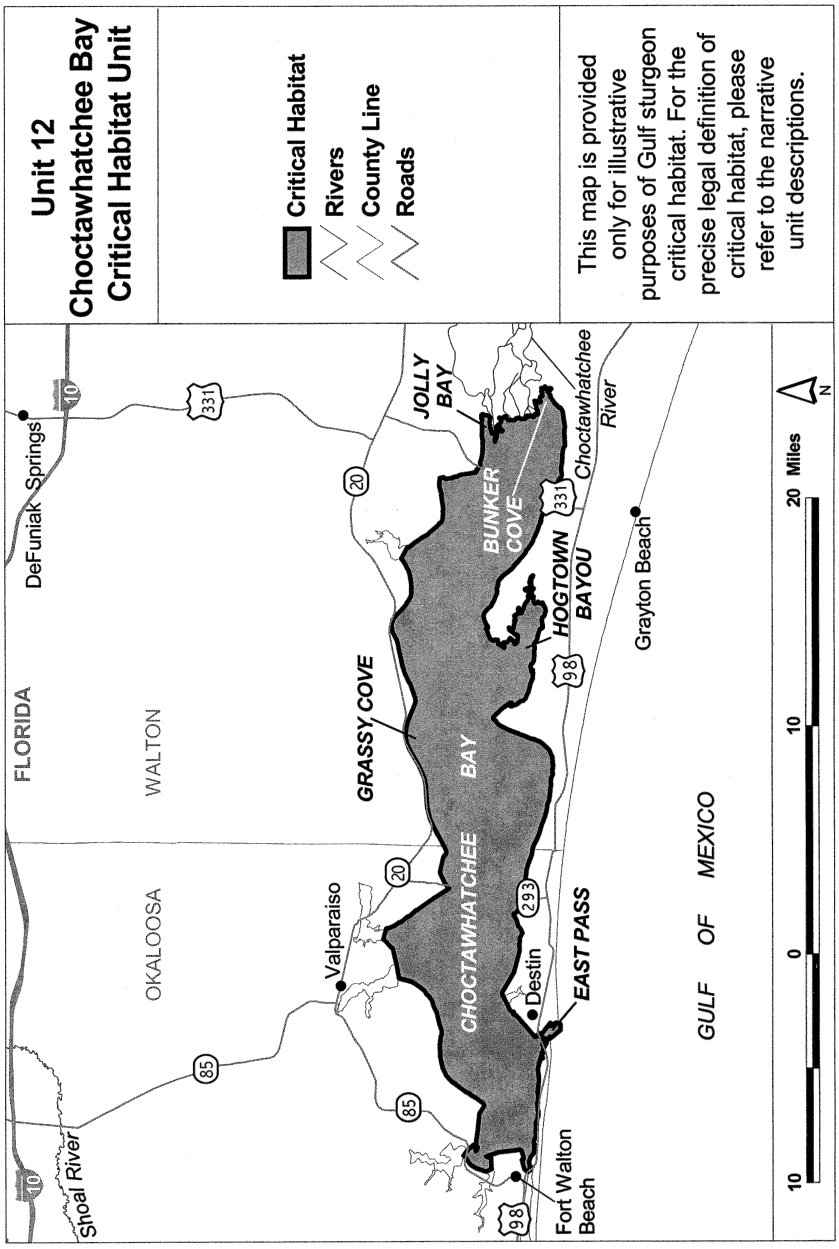


(16) *Unit 12:* Choctawhatchee Bay in Okaloosa and Walton Counties, Florida.

(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.

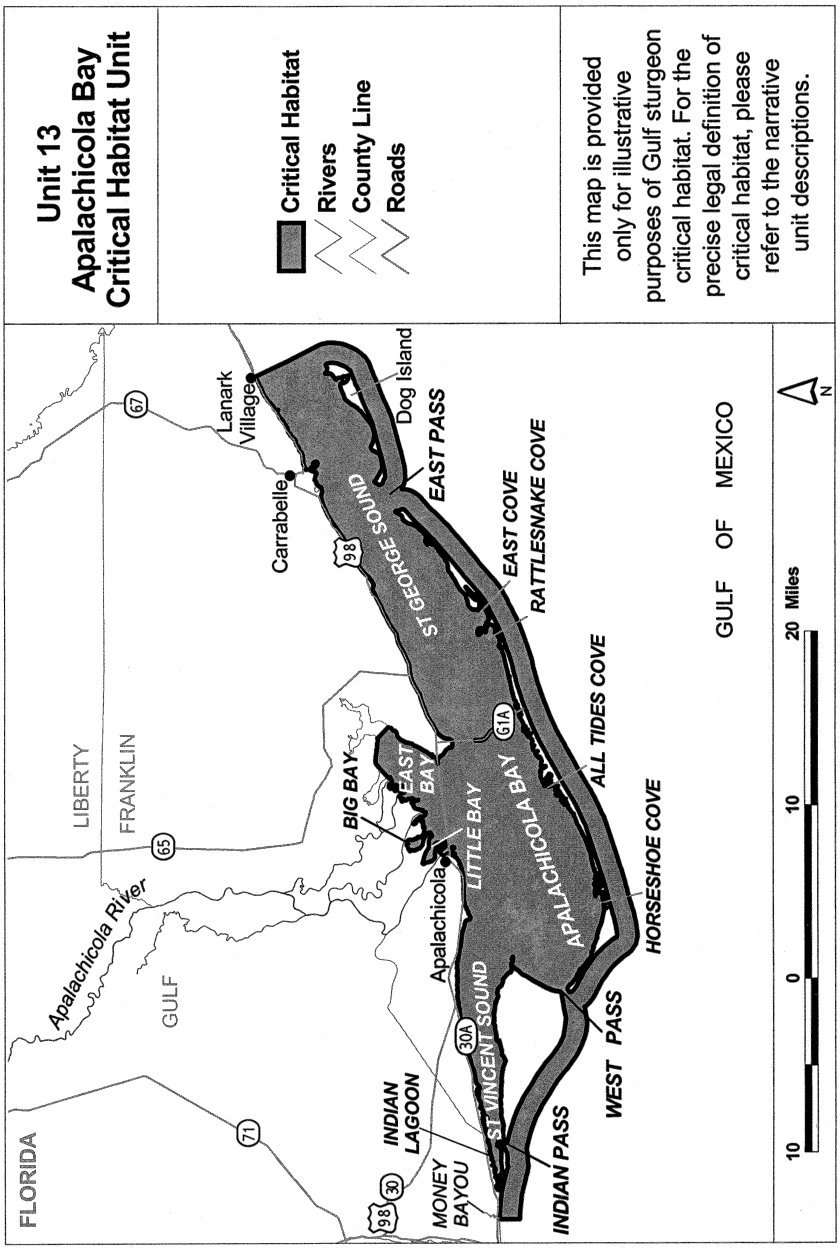
(ii) A Map of Unit 12 follows:



(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:

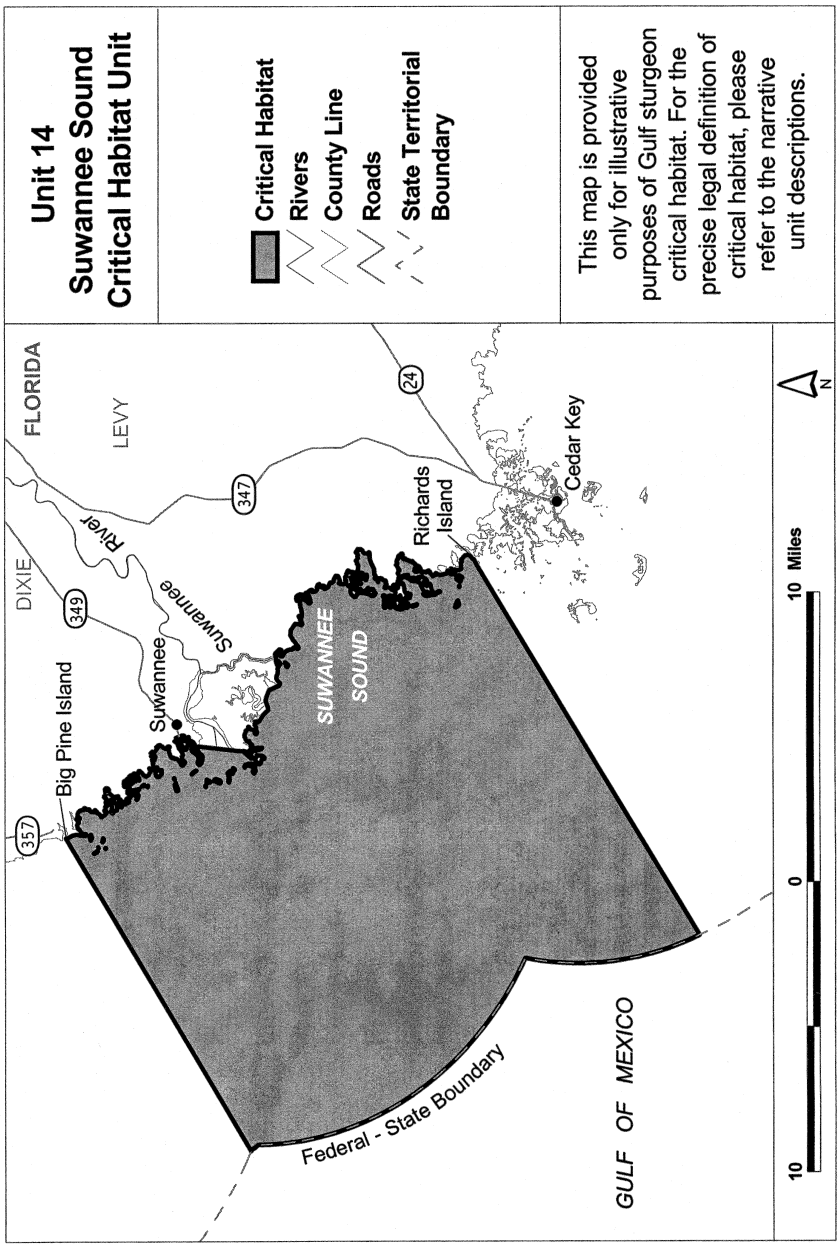


(18) *Unit 14:* Suwannee Sound in Dixie and Levy Counties, Florida.

(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:



(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.

WHITE STURGEON (*Acipenser transmontanus*); KOOTENAI RIVER POPULATION

(1) Critical habitat is designated in Idaho, Boundary County, on the Kootenai River from river mile (RM) 141.4 (river kilometer (RKM) 228) to RM 159.7 (RKM 257), as indicated on the map in paragraph (3) of this entry, from ordinary high-water mark to opposite bank ordinary high-water mark as defined in 33 CFR 329.11.

(2) The primary constituent elements of critical habitat for the Kootenai River population of the white sturgeon are:

(i) A flow regime, during the spawning season of May through June, that approximates natural variable conditions and is capable of producing depths of 23 feet (ft) (7 meters (m)) or greater when natural conditions (for example, weather patterns, water year) allow. The depths must occur at multiple sites throughout, but not uniformly within, the Kootenai River designated critical habitat.

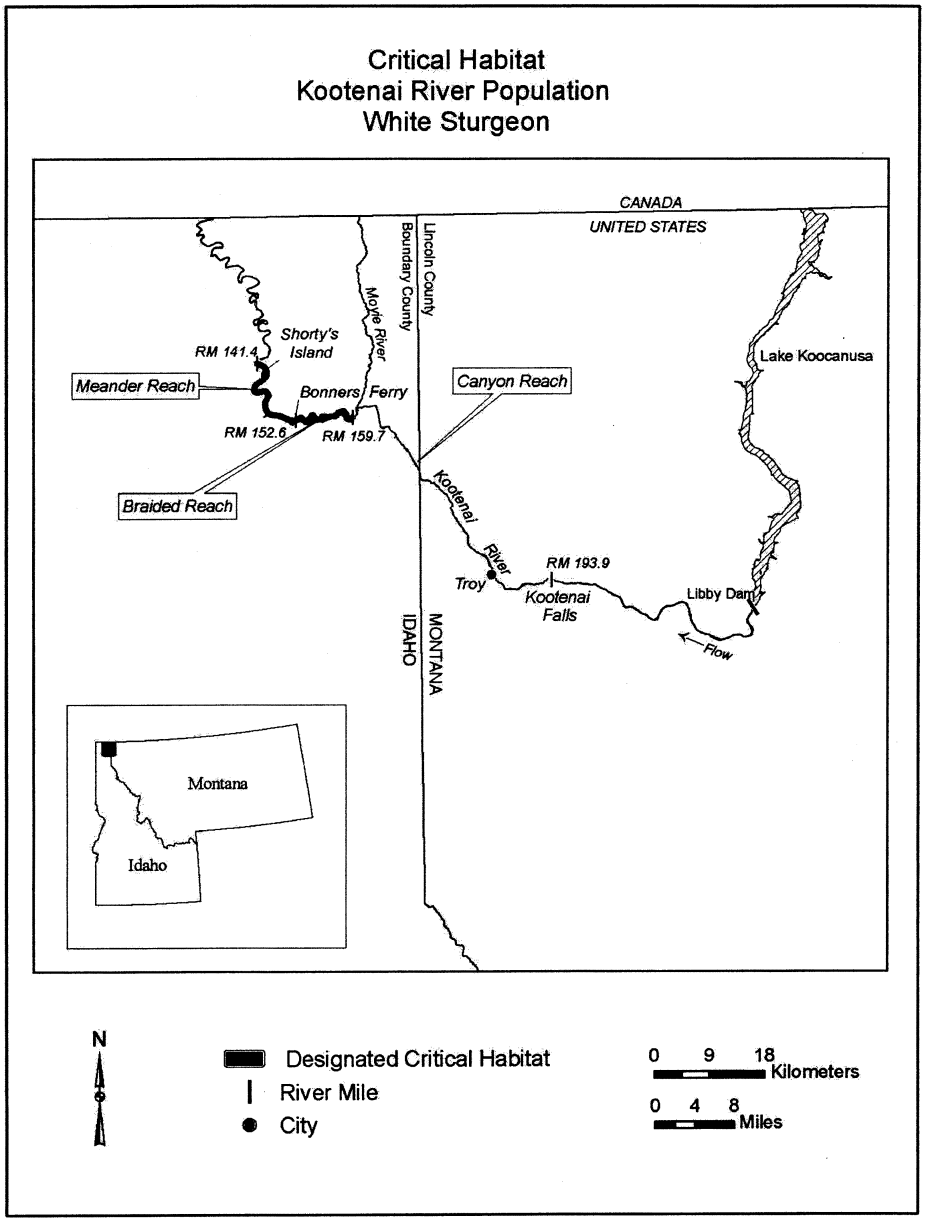
(ii) A flow regime, during the spawning season of May through June, that approximates natural variable conditions and is capable of producing mean water column velocities of 3.3 feet per second (ft/s) (1.0 meters per second (m/s)) or greater when natural conditions (for example, weather patterns, water year) allow. The velocities must occur at multiple sites throughout, but not uniformly within, the Kootenai River designated critical habitat.

(iii) During the spawning season of May through June, water temperatures between 47.3 and 53.6 degrees Fahrenheit (°F) (8.5 and 12 degrees Celsius (°C)), with no more than a 3.6 °F (2.1 °C) fluctuation in temperature within a 24-hour period, as measured at Bonners Ferry.

(iv) Submerged rocky substrates in approximately 5 continuous river miles (8 river kilometers) to provide for natural free embryo redistribution behavior and downstream movement.

(v) A flow regime that limits sediment deposition and maintains appropriate rocky substrate and inter-gravel spaces for sturgeon egg adhesion, incubation, escape cover, and free embryo development.

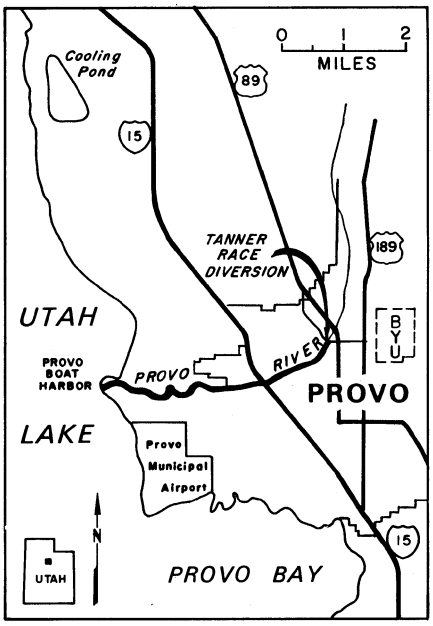
(3) Note: Map of critical habitat follows:



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:



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*)

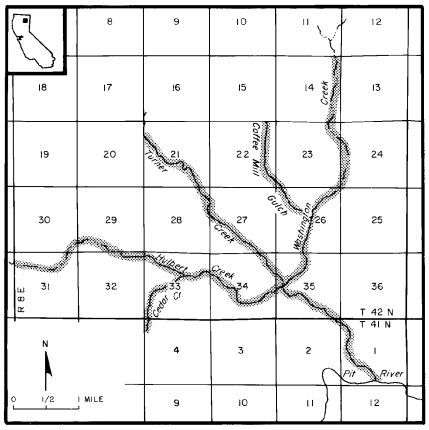
California, Modoc County.

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.

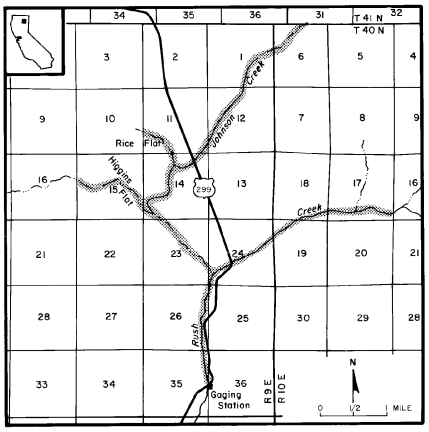
NOTE: Map follows:



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:



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.

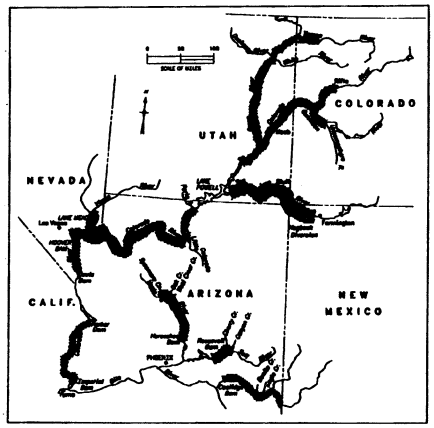
Arizona: La Paz and Yuma Counties; and California: San Bernardino, Riverside, and Imperial Counties. The Colorado River and its 100-year flood plain from Parker Dam in T.11N., R.18W., sec. 16 (Gila and Salt River Meridian) to Imperial Dam in T.6S., R.22W., sec. 25 (Gila and Salt River Meridian) including 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.



SANTA ANA SUCKER (*Catostomus santaanae*)

(1) Areas determined to be essential to the conservation of the Santa Ana sucker and designated critical habitat units are depicted for Los Angeles County, California, on the maps and as described as follows:

(2) Based on the best available information, primary constituent elements essential for the conservation of the Santa Ana sucker include the following:

(i) A functioning hydrological system that experiences peaks and ebbs in the water volume that reflects seasonal variation in precipitation throughout the year;

(ii) A mosaic of loose 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 (1.2 in) and bottom water velocities greater than 0.03 meter per second (0.01 feet per second);

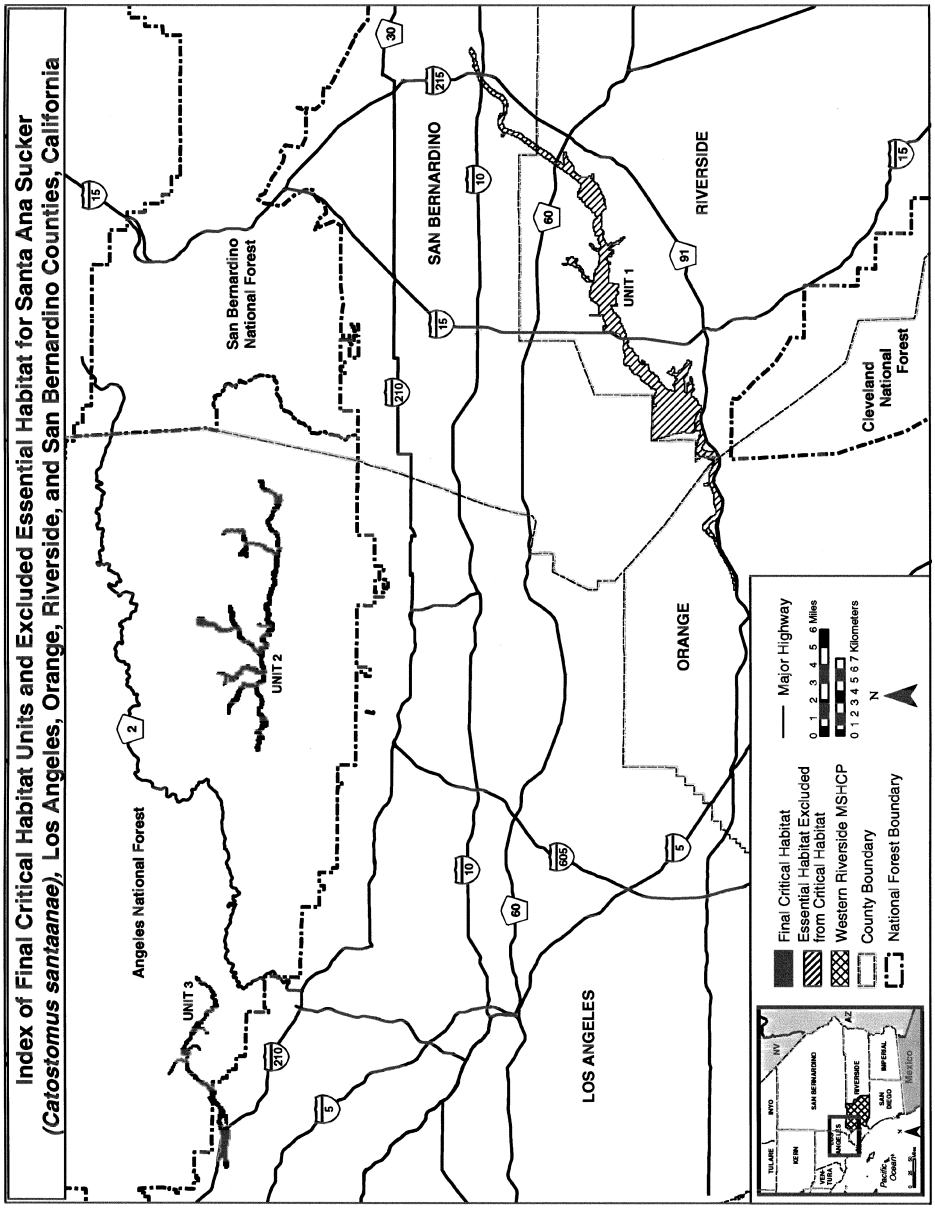
(iv) Non-turbid water or only seasonally turbid water;

(v) Water temperatures less than 30 °C (86 °F); and

(vi) Stream habitat that includes algae, aquatic emergent vegetation, macroinvertebrates, and riparian vegetation.

(3) Existing features and structures made by people, such as paved roads, bridges, parking lots, railroad tracks, railroad trestles, and residential, commercial, and industrial developments including energy production and distribution facilities (exclusive of the stream channel), do not contain one or more of the primary constituent elements and are not critical habitat. 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) Areas determined to be essential to the conservation of the Santa Ana sucker and designated critical habitat units are shown on the following index map.

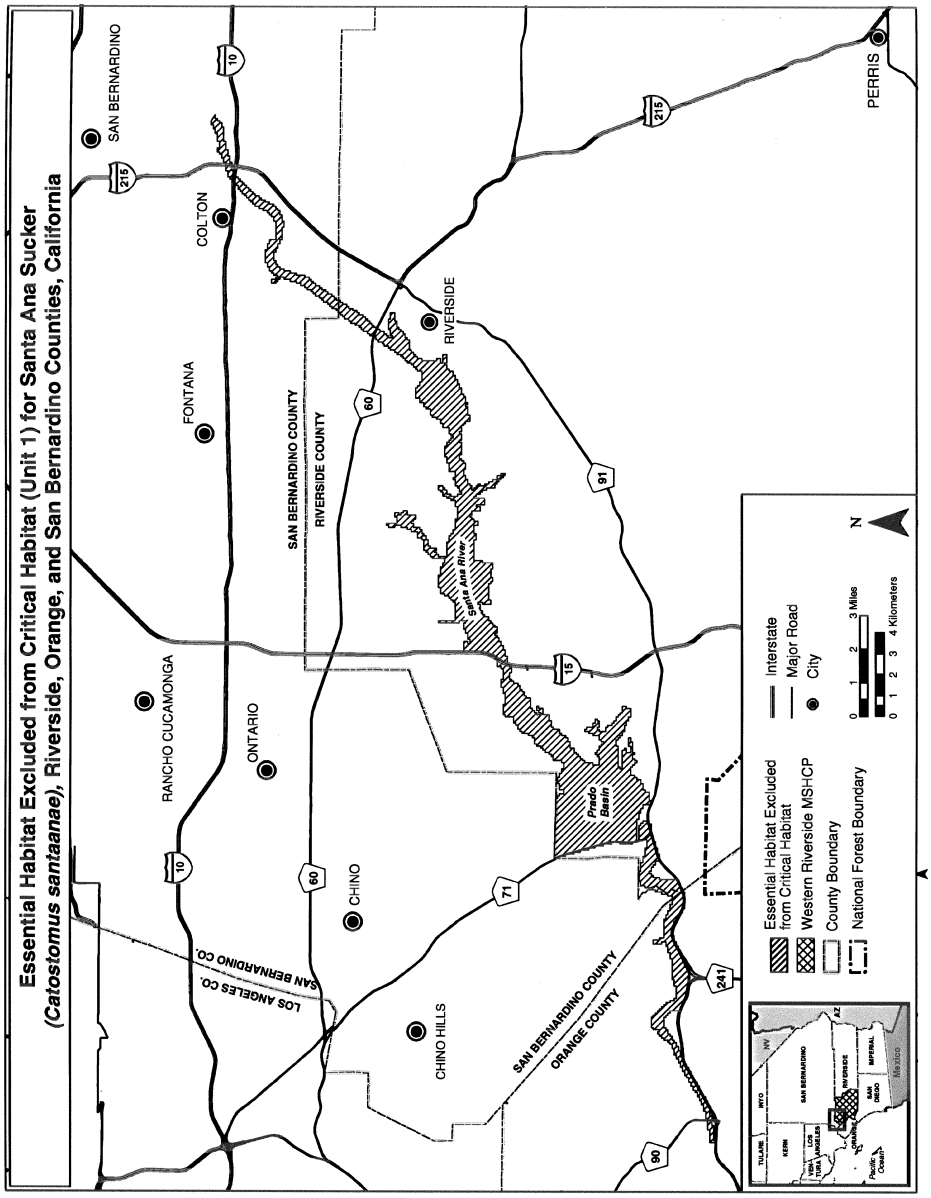


(5) Areas that have been determined to be essential to the conservation of the Santa Ana sucker and that have been excluded from critical habitat designation pursuant to section 4(b)(2) of the Act are described as follows:

(i) All essential areas within the boundaries of the Western Riverside Multiple Species Habitat Conservation Plan (which may be obtained by going to the Riverside County Integrated Project Web site (*http://www.rcip.org/conservation.htm*) and other

areas of the Santa Ana River, from the confluence of Mission Channel and the Santa Ana River downstream to the vicinity of the Route 90, covered by the Santa Ana Sucker Conservation Program.

(ii) *Note:* Map of essential habitat excluded from critical habitat (Unit 1) for Santa Ana Sucker follows:



(6) The following textual unit descriptions 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.

(7) Unit 2: San Gabriel River system in Los Angeles County, California.

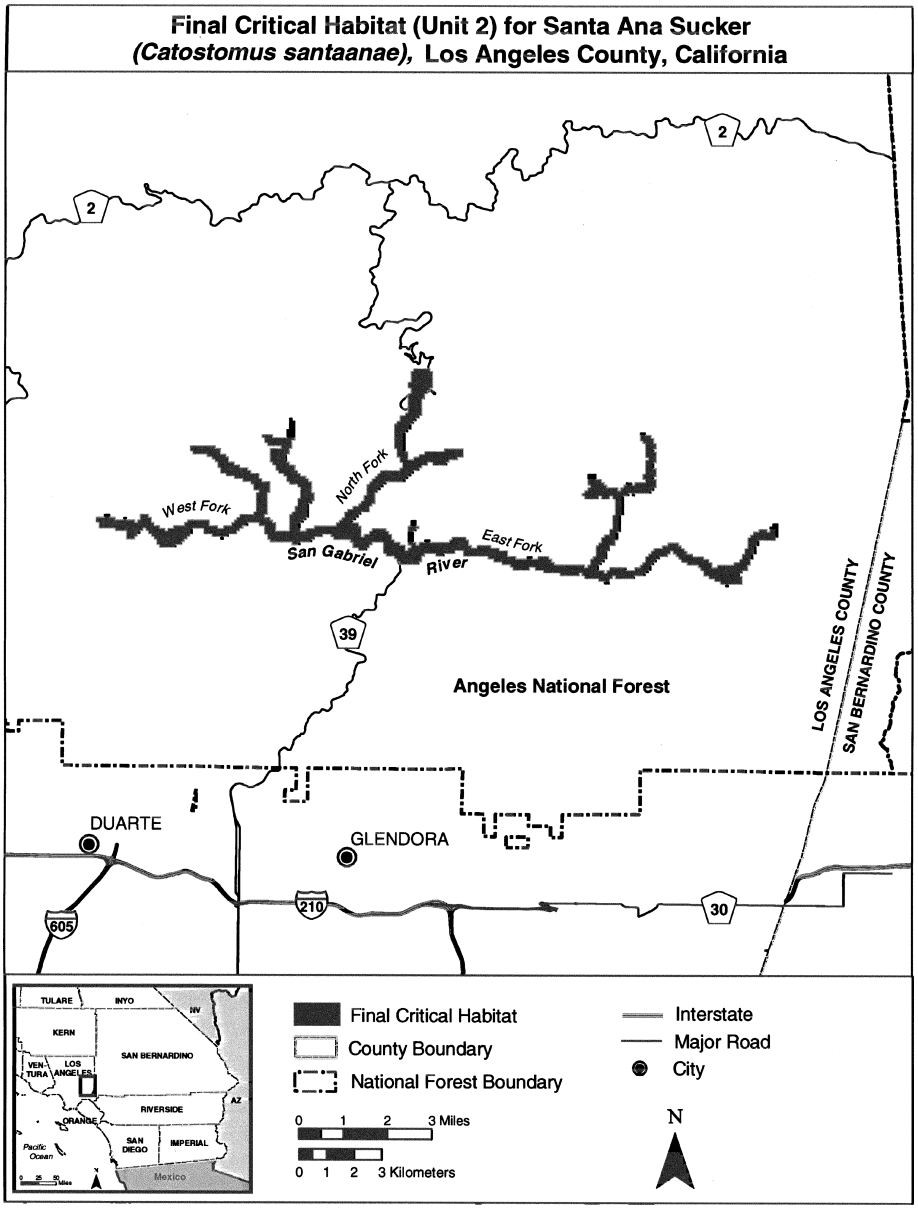
(i) Unit 2 includes the West, North and East Forks of the San Gabriel River and the following tributaries: Cattle Canyon Creek, Bear Creek, Bichota Canyon Creek, and Big Mermaids Canyon Creek. The San Gabriel River portion of the unit extends from the Cogswell Dam on the West Fork to approximately 3,882 feet (1,229 meters; 0.77 miles; 1.21 kilometers) downstream from 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; 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(ii) The map of Unit 2 follows:



(8) Unit 3: Big Tujunga Creek system in Los Angeles County, California.

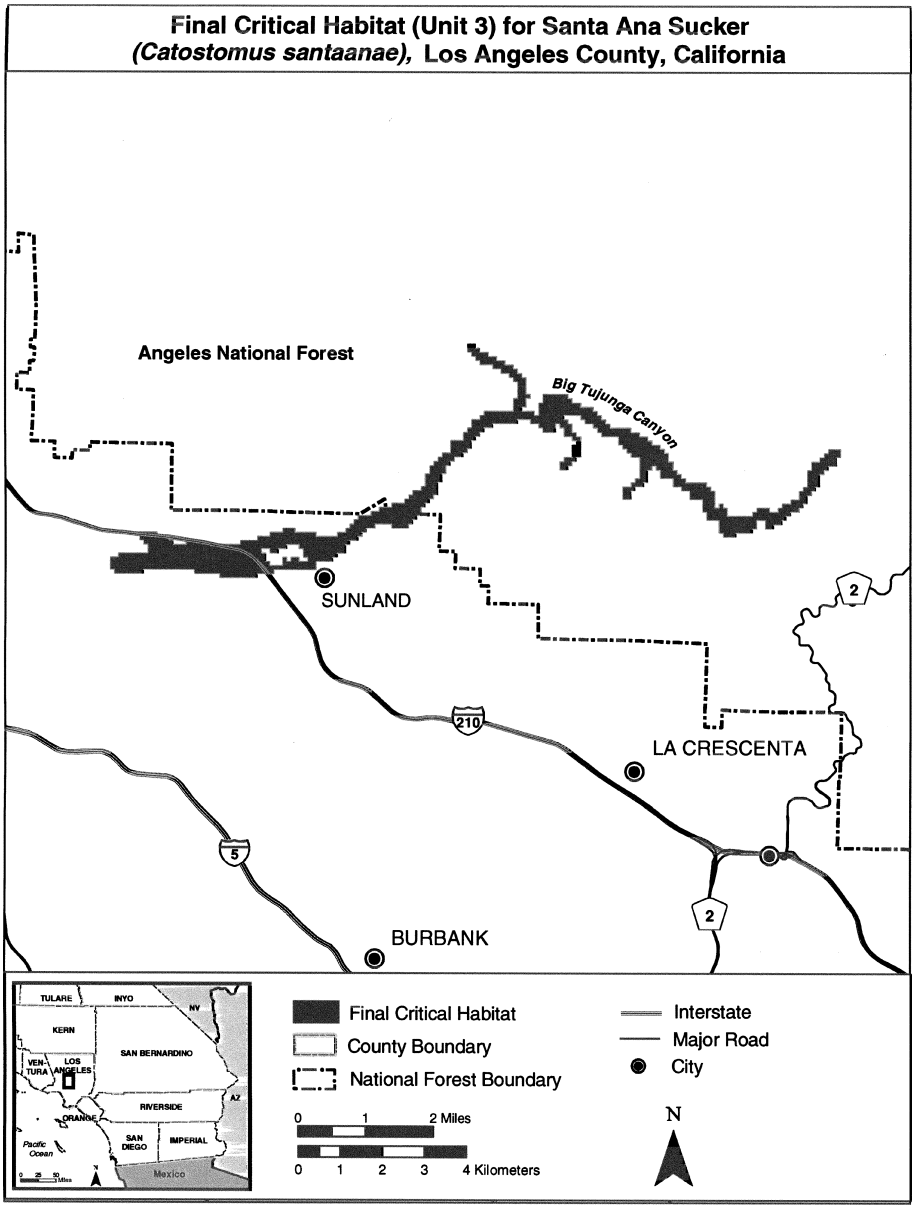
(i) Unit 3 includes the stretch of Big Tujunga Creek between the Big Tujunga Dam and Hansen Dam and the following tributaries: Stone Canyon Creek, Delta Canyon Creek, and Gold Canyon Creek. The lateral extent of Unit 3 is defined by the UTM coordinates described in the legal description.

Unit 3: Big Tujunga Canyon. 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): 381900, 3797700; 382100, 3797700; 382100, 3797600; 382200, 3797600; 382200, 3797500; 382400, 3797500; 382400, 3797400; 382600, 3797400; 382600, 3797300; 382800, 3797300; 382800, 3797200; 383000, 3797200; 383000, 3797100; 383100, 3797100; 383100, 3797000; 383200, 3797000; 383200, 3796900; 383300, 3796900; 383300, 3796500; 383400, 3796500; 383400, 3796400; 383300, 3796400; 383300, 3796200; 383200, 3796200; 383200, 3796100; 383500, 3796100; 383500, 3796000; 383600, 3796000; 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; 385800, 3795700; 385800, 3795600; 386000, 3795600; 386000, 3795500; 386200, 3795500; 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(ii) The map of Unit 3 follows:



WARNER SUCKER (*Catostomus warnerensis*)

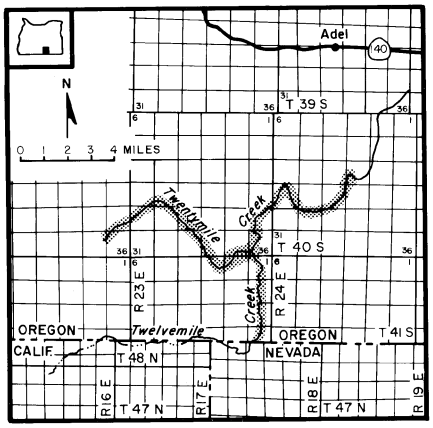
Oregon: Lake County.

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:

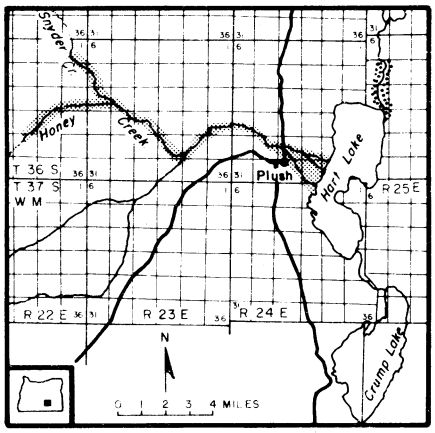


3. *Spillway Canal north of Hart Lake*—Approximately 2 stream miles and 50 feet on either side of the waterway commencing at its confluence with Hart Lake and extending to a point about 2 miles downstream, and including those portions of the waterway in T36S, R24E, Sections 7, 18, and 19.

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:



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.

BULL TROUT (*Salvelinus confluentus*)

(1) *Locations of the designated critical habitat.* Critical habitat is designated in the following States and counties on the maps and as described below:

State	Counties
(i) Idaho	Adams, Benewah, Bonner, Boundary, Kootenai, Nez Perce, Shoshone, Washington.
(ii) Montana	Deer Lodge, Flathead, Glacier, Granite, Lake, Lewis and Clark, Lincoln, Mineral, Missoula, Powell, Ravalli, Sanders.
(iii) Oregon	Baker, Deschutes, Grant, Harney, Hood River, Jefferson, Klamath, Lake, Lane, Sherman, Umatilla, Union, Wallowa, Wasco.
(iv) Washington	Asotin, Benton, Clallam, Clark, Columbia, Cowlitz, Garfield, Grays Harbor, Island, Jefferson, King, Kittitas, Klickitat, Mason, Pend Oreille, Pierce, Skagit, Skamania, Snohomish, Stevens, Thurston, Walla Walla, Whatcom, Whitman, Yakima.

(2) *Topographic features included in the critical habitat designation.* Critical habitat includes the stream channels within the designated stream reaches and inshore extent of critical habitat for marine nearshore areas (the mean high high-water (MHHW) line), including tidally influenced freshwater heads of estuaries indicated on the maps below.

(i) Critical habitat includes the stream channels within the designated stream reaches, and includes a lateral extent as defined by the ordinary high-water line. In

areas where ordinary high-water line has not been defined, the lateral extent will be defined by the bankfull elevation. Bankfull elevation is the level at which water begins to leave the channel and move into the floodplain and is reached at a discharge that generally has a recurrence interval of 1 to 2 years on the annual flood series. Critical habitat includes the stream channels within the designated stream reaches, and includes a lateral extent from the bankfull elevation on one bank to the bankfull elevation on the opposite bank. Bankfull elevation is the level at which water begins to leave the channel and move into the floodplain and is reached at a discharge that generally has a recurrence interval of 1 to 2 years on the annual flood series. If bankfull elevation is not evident on either bank, the ordinary high-water line must be used to determine the lateral extent of critical habitat. The lateral extent of designated lakes is defined by the perimeter of the water body as mapped on standard 1:24,000 scale topographic maps.

(ii) Critical habitat includes the inshore extent of critical habitat for marine nearshore areas (the MHHW line), including tidally influenced freshwater heads of estuaries. This refers to the average of all the higher high-water heights of the two daily tidal levels. Adjacent shoreline riparian areas, bluffs, and uplands are not designated as critical habitat. However, it should be recognized that the quality of marine habitat along shorelines is intrinsically related to the character of these adjacent features, and human activities that occur outside of the MHHW line can have major effects on physical and biological features of the marine environment. The offshore extent of critical habitat for marine nearshore areas is based on the extent of the photic zone, which is the layer of water in which organisms are exposed to light. Critical habitat extends offshore to the depth of 33 ft (10 m) relative to the mean low low-water line (MLLW) (average of all the lower low-water heights of the two daily tidal levels). This equates to the average depth of the photic zone and is consistent with the offshore extent of the nearshore habitat identified under the ''Notice of Change to the Nation's Tidal Datums With the Adoption of a New National Tidal Datum Epoch Period of 1983 Through 2001''. This area between MHHW and minus 10 MLLW is considered the habitat most consistently used by bull trout in marine waters based on known use, forage fish availability, and ongoing migration studies, and captures geological and ecological processes important to maintaining these habitats. This area contains essential foraging habitat and migration corridors such as estuaries, bays, inlets, shallow subtidal areas, and intertidal flats.

(3) *Primary constituent elements needed for bull trout survival.* Within the designated critical habitat areas, the primary constituent elements (PCEs) for bull trout are those habitat components that are essential for the primary biological needs of foraging, reproducing, rearing of young, dispersal, genetic exchange, or sheltering. Note that only the PCEs described in paragraphs (e)(3)(i), (vi), (vii), and (viii) apply to marine nearshore waters identified as critical habitat. The PCEs are as follows:

(i) Water temperatures that support bull trout use. Bull trout have been documented in streams with temperatures from 32 to 72 °F (0 to 22 °C) but are found more frequently in temperatures ranging from 36 to 59 °F (2 to 15 °C). These temperature ranges may vary depending on bull trout life-history stage and form, geography, elevation, diurnal and seasonal variation, shade, such as that provided by riparian habitat, and local groundwater influence. Stream reaches with temperatures that preclude bull trout use are specifically excluded from designation;

(ii) Complex stream channels with features such as woody debris, side channels, pools, and undercut banks to provide a variety of depths, velocities, and instream structures;

(iii) Substrates of sufficient amount, size, and composition to ensure success of egg and embryo overwinter survival, fry emergence, and young-of-the-year and juvenile survival. This should include a minimal amount of fine substrate less than 0.25 inch (0.63 centimeter) in diameter.

(iv) A natural hydrograph, including peak, high, low, and base flows within historic ranges or, if regulated, currently operate under a biological opinion that addresses bull trout, or a hydrograph that demonstrates the ability to support bull trout populations by minimizing daily and day-to-day fluctuations and minimizing departures from the natural cycle of flow levels corresponding with seasonal variation: This rule finds that reservoirs currently operating under a biological opinion that addresses bull trout provides management for PCEs as currently operated;

(v) Springs, seeps, groundwater sources, and subsurface water to contribute to water quality and quantity as a cold water source;

(vi) Migratory corridors with minimal physical, biological, or water quality impediments between spawning, rearing, overwintering, and foraging habitats, including intermittent or seasonal barriers induced by high water temperatures or low flows;

(vii) An abundant food base including terrestrial organisms of riparian origin, aquatic macroinvertebrates, and forage fish; and

(viii) Permanent water of sufficient quantity and quality such that normal reproduction, growth, and survival are not inhibited.

(4) *Exclusions from the critical habitat designation.* Certain geographic areas are excluded from the critical habitat designation as described below in this paragraph (4).

(i) *3(5)(A) and Exclusions under section 4(b)(2) of the Act.* (A) *Habitat conservation plans.* We are excluding from the critical habitat designation any non-Federal lands covered by an incidental take permit for bull trout issued under section 10(a)(1)(B) of the Act on or before September 26, 2005, as long as such permit, or a conservation easement providing comparable conservation benefits, remains legally operative on such lands. These excluded areas are covered by habitat conservation plans (HCPs). They include lands and waters covered by the Washington Department of Natural Resources HCP, the Plum Creek Native Fish HCP/Stimson Lumber Company HCP, the Tacoma Water Green River HCP, the Green Diamond Resources Company HCP, and the City of Seattle Cedar River Watershed HCP.

(B) *Tribal lands.* The following tribal lands contain stream segments or marine nearshore habitat areas that have been excluded from designated critical habitat pursuant to section 4(b)(2) of the Act: Tribal lands of the Blackfeet Nation, Swinomish Tribe, Quinault Indian Nation, Muckleshoot Tribe, Jamestown S'Klallam Tribe, Hoh Tribe, Skokomish, and Confederated Tribes of Warm Springs Reservation of Oregon.

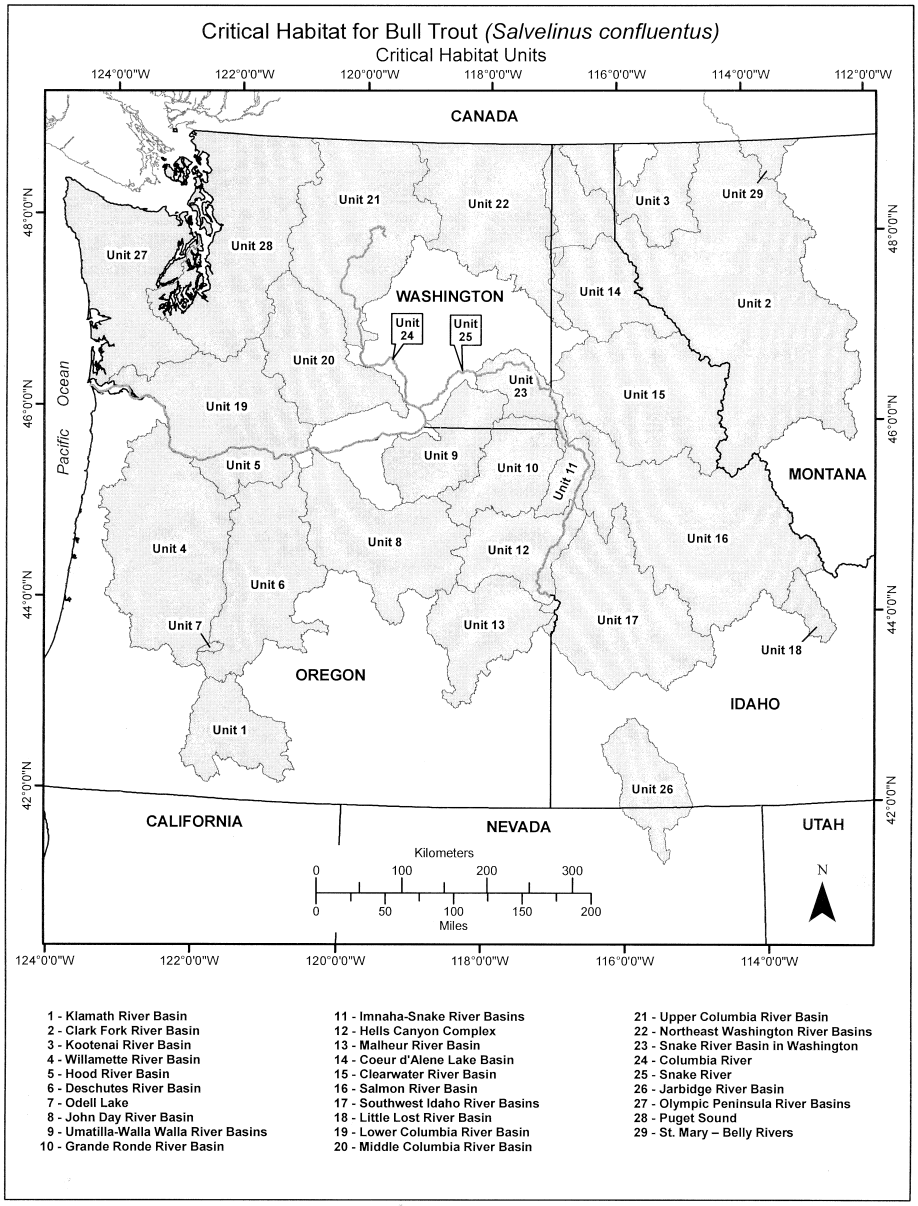
(C) *Federal lands.* The following Federal lands contain stream segments or marine nearshore habitat areas that have been excluded from designated critical habitat pursuant to section 4(a)(3) of the Act: Lands within the Nisqually National Wildlife Refuge; the Washington State Forest Practices Rules and Forest Practices Regulations for Bull Trout; the Lewis Hydroelectric Project Conservation Easements; the Snake River Basin Adjudication; the Northwest Forest Plan Aquatic Conservation Strategy; the Interim Strategy for Managing Anadromous-Fish-Producing Watersheds; the Federal Columbia River Power System; the Clark Fork River from Missoula to Butte, MT; the Middle Fork of the Boise River; the Interior Columbia Basin Ecosystem Management Project; the Southeast Oregon Resource Management Plan; the Southwest Idaho Land and Resource Management Plan; and waters impounded behind dams whose primary purpose is for flood control or water supply for human consumption (reservoirs and pools).

(ii) *Non-Inclusions under section 4(a)(3) of the Act.* (A) *Military lands.* The following military lands contain stream segments or marine nearshore habitat areas that have been excluded from designated critical habitat pursuant to section 4(a)(3) of the Act: Bayview Acoustic Research Detachment, Naval Surface Warfare Center, ID; Naval Radio Station, Jim Creek, WA; Naval Station, Everett, WA; Naval Air Station, Whidbey Island, WA; the Naval Under Sea Warfare Center Division, Newport, WA (Dabob Bay and Crescent Harbor), Keyport facilities and Fort Lewis, WA.

(B) [Reserved]

(5) The designated critical habitat units for bull trout are set forth in the text and depicted on the maps below.

(6) An index map of designated critical habitat for the Klamath River, Columbia River, Olympic Peninsula, Puget Sound, and Saint Mary-Belly bull trout populations follows:

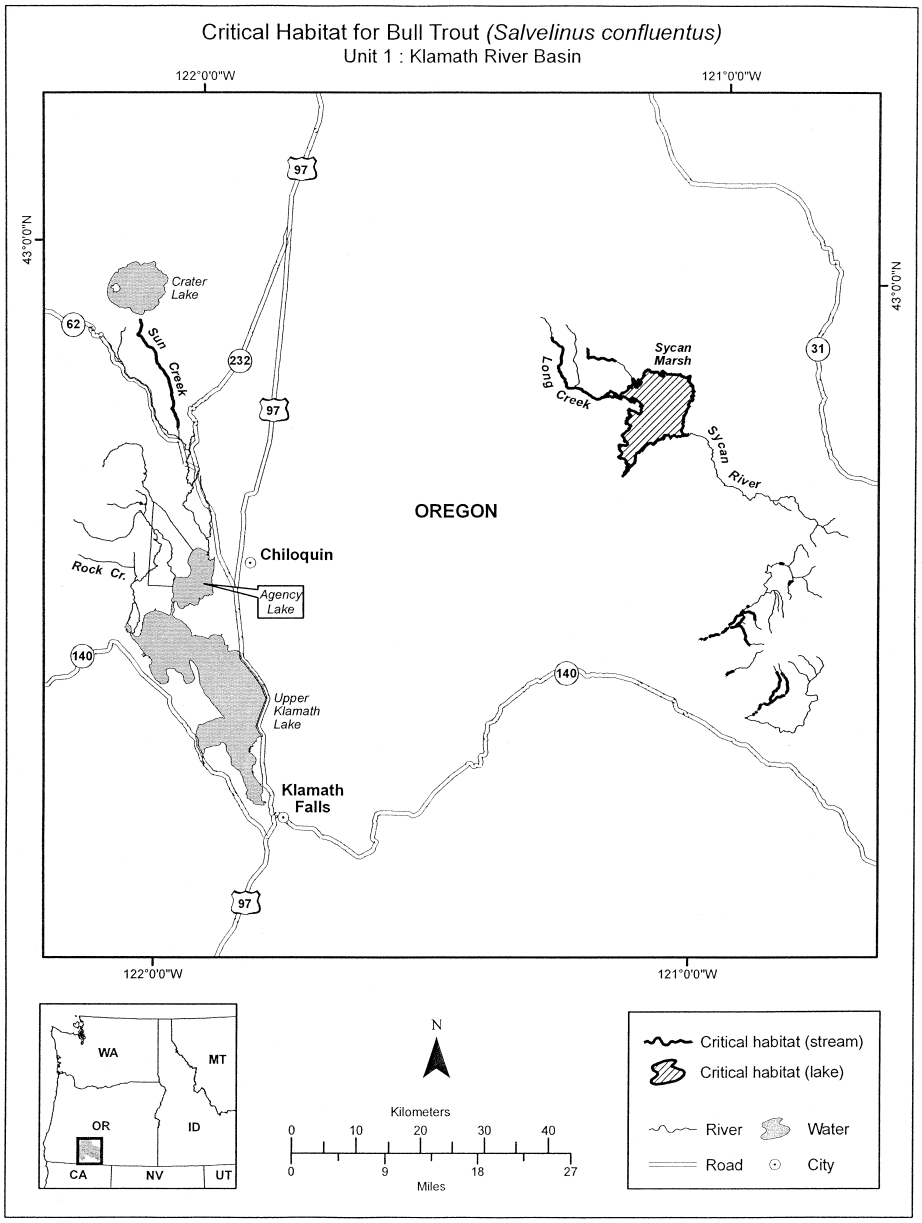


(7) Unit 1: Klamath River Basin.

(i) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Boulder Creek	42.517 N.	120.951 W.	42.495 N.	120.884 W.
Brownsworth Creek	42.392 N.	120.913 W.	42.469 N.	120.854 W.
Coyote Creek	42.854 N.	121.158 W.	42.893 N.	121.246 W.
Deming Creek	42.448 N.	120.953 W.	42.486 N.	120.885 W.
Dixon Creek	42.518 N.	120.937 W.	42.532 N.	120.923 W.
Leonard Creek	42.413 N.	120.867 W.	42.465 N.	120.864 W.
Long Creek	42.826 N.	121.209 W.	42.933 N.	121.338 W.
North Fork Sprague River	42.497 N.	121.008 W.	42.557 N.	120.839 W.
Sheepy Creek	42.534 N.	120.931 W.	42.514 N.	120.890 W.
Sun Creek	42.735 N.	122.008 W.	42.898 N.	122.096 W.
Sycan Marsh	Located at		42.816 N.	121.124 W.
Threemile Creek	42.642 N.	122.065 W.	42.640 N.	122.138 W.

(ii) Map of Unit 1, Klamath River Basin, follows:



(8) Unit 2: Clark Fork River Basin.

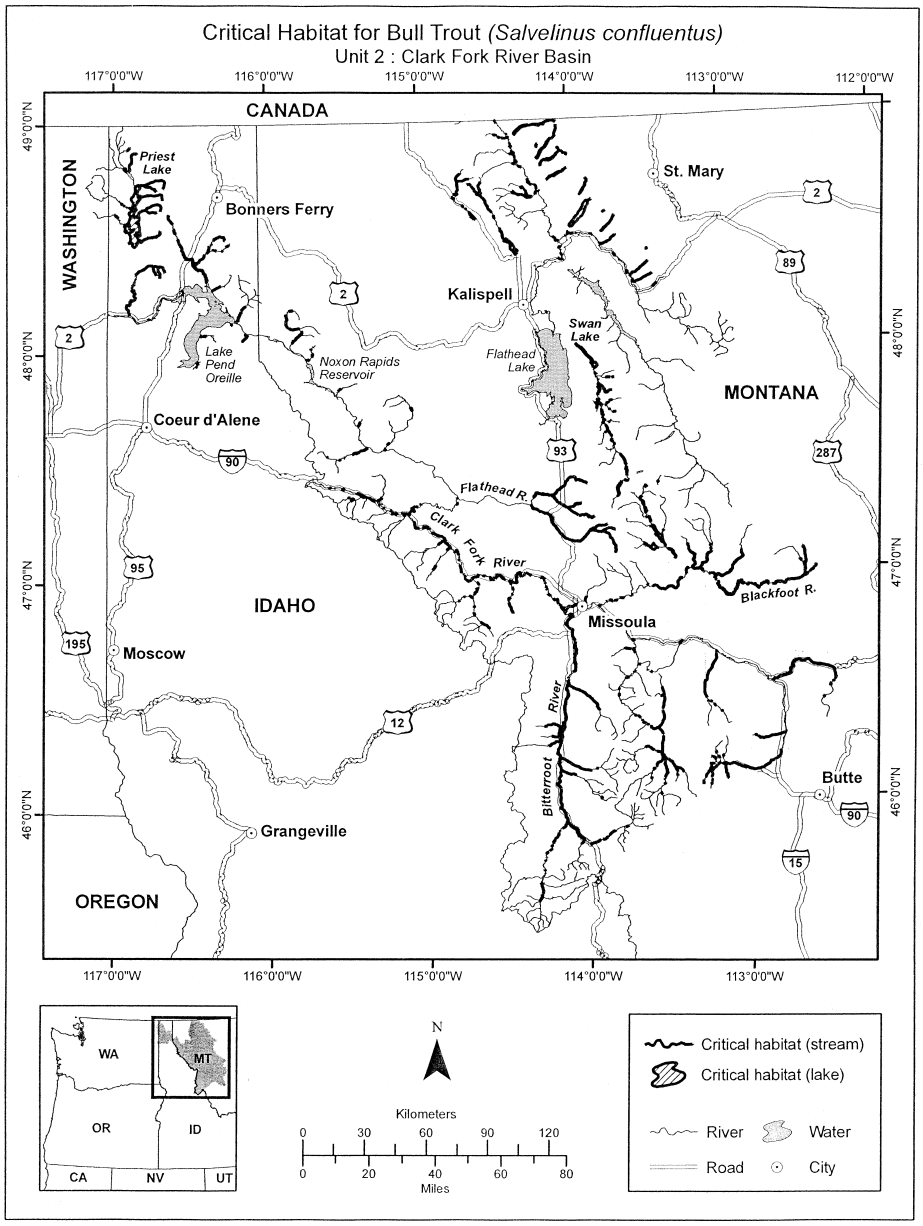
(ii) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Akokala Cr	48.881 N.	114.198 W.	48.892 N.	114.191 W.
Akokala Lake	Located at		48.879 N.	114.198 W.
Arrow Lake	Located at		48.706 N.	113.884 W.
Barker Cr	46.163 N.	113.115 W.	46.100 N.	113.115 W.
Bear Creek	48.234 N.	113.566 W.	48.296 N.	113.384 W.
Beaver Cr	46.472 N.	113.493 W.	46.468 N.	113.555 W.
Belmont Cr	46.954 N.	113.569 W.	47.061 N.	113.681 W.
Big Cr	47.378 N.	115.384 W.	47.364 N.	115.444 W.
Big Cr, M Fk	47.364 N.	115.444 W.	47.312 N.	115.492 W.
Big Cr, W Fk	47.364 N.	115.444 W.	47.350 N.	115.544 W.
Bitterroot River	46.861 N.	114.118 W.	45.944 N.	114.128 W.
Blackfoot River	46.870 N.	113.889 W.	47.011 N.	112.476 W.
Blodgett Cr	46.312 N.	114.145 W.	46.248 N.	114.453 W.
Boulder Cr	46.478 N.	113.237 W.	46.343 N.	113.076 W.
Bowman Cr	48.906 N.	114.117 W.	48.974 N.	114.063 W.
Bowman Lake	Located at		48.870 N.	114.157 W.
Brewster Cr	46.612 N.	113.653 W.	46.582 N.	113.587 W.
Bull River	48.036 N.	115.844 W.	48.109 N.	115.782 W.
Burnt Fork Creek	46.542 N.	114.099 W.	46.304 N.	113.837 W.
Cable Cr	46.172 N.	113.180 W.	46.196 N.	113.213 W.
Cache Cr	46.814 N.	114.639 W.	46.726 N.	114.758 W.
Camas Cr	48.690 N.	113.901 W.	48.738 N.	113.883 W.
Cedar Cr	47.178 N.	114.862 W.	47.049 N.	115.043 W.
Cedar Creek	48.880 N.	116.959 W.	48.909 N.	116.885 W.
Cerulean Lake	Located at		48.872 N.	114.057 W.
Chicken Cr	45.601 N.	114.313 W.	45.621 N.	114.403 W.
Clark Fork River	47.366 N.	114.776 W.	46.870 N.	113.889 W.
Clearwater Lake	Located at		47.385 N.	113.558 W.
Clearwater R, W Fk	47.256 N.	113.550 W.	47.287 N.	113.744 W.
Clearwater River	47.107 N.	113.427 W.	47.390 N.	113.561 W.
Coal Cr	48.690 N.	114.193 W.	48.698 N.	114.494 W.
Coal Cr, S Fk	48.680 N.	114.345 W.	48.674 N.	114.471 W.
Cold Cr	47.584 N.	113.756 W.	47.562 N.	113.810 W.
Copper Cr	47.007 N.	112.555 W.	47.060 N.	112.752 W.
Cottonwood Cr	47.025 N.	113.281 W.	47.161 N.	113.345 W.
Cyclone Cr	48.665 N.	114.238 W.	48.712 N.	114.391 W.
Cyclone Lake	Located at		48.706 N.	114.297 W.
Deer Cr	45.595 N.	114.321 W.	45.570 N.	114.509 W.
Deer Cr	47.208 N.	113.529 W.	47.249 N.	113.688 W.
Deer Cr	47.377 N.	115.359 W.	47.326 N.	115.389 W.
Doctor Lake	Located at		47.404 N.	113.480 W.
Dry Cr	47.305 N.	114.064 W.	47.259 N.	113.903 W.
Dunham Cr	47.103 N.	113.155 W.	47.238 N.	113.316 W.
East Fork Bitterroot River	45.944 N.	114.128 W.	45.911 N.	113.595 W.
East River	48.353 N.	116.852 W.	48.371 N.	116.819 W.
Elk Cr	47.544 N.	113.741 W.	47.480 N.	113.856 W.
Finley Cr	47.125 N.	113.560 W.	47.120 N.	113.649 W.
Fish Cr	47.004 N.	114.699 W.	46.927 N.	114.696 W.
Fish Cr, S Fk	46.927 N.	114.696 W.	46.753 N.	114.571 W.
Fish Cr, W Fk	46.927 N.	114.696 W.	46.812 N.	114.890 W.
Fishtrap Cr	47.713 N.	115.058 W.	47.817 N.	115.144 W.
Fitzsimmons Cr	48.735 N.	114.733 W.	48.752 N.	114.618 W.
Flathead River	48.061 N.	114.127 W.	48.468 N.	114.069 W.
Flint Cr	46.654 N.	113.145 W.	46.478 N.	113.237 W.
Foster Cr	46.164 N.	113.120 W.	46.283 N.	113.109 W.
Fred Burr Creek	46.365 N.	114.131 W.	46.357 N.	114.315 W.
Gilbert Cr	46.682 N.	113.666 W.	46.648 N.	113.818 W.
Goat Cr	47.749 N.	113.828 W.	47.773 N.	113.694 W.
Gold Creek	47.971 N.	116.454 W.	47.954 N.	116.451 W.
Granite Creek	48.087 N.	116.427 W.	48.060 N.	116.329 W.
Granite Creek	48.639 N.	116.863 W.	48.700 N.	117.029 W.
Graves Cr	47.682 N.	115.409 W.	47.718 N.	115.380 W.
Grouse Creek	48.403 N.	116.477 W.	48.483 N.	116.228 W.
Harrison Cr	48.529 N.	113.750 W.	48.574 N.	113.701 W.
Harrison Lake	Located at		48.516 N.	113.771 W.
Harvey Cr	46.707 N.	113.372 W.	46.581 N.	113.573 W.
Hughes Cr	45.621 N.	114.303 W.	45.667 N.	114.021 W.
Hughes Fork	48.805 N.	116.923 W.	48.946 N.	117.023 W.
Indian Creek	48.610 N.	116.836 W.	48.634 N.	116.789 W.
Jim Cr	47.648 N.	113.792 W.	47.575 N.	113.856 W.
Jocko R	47.322 N.	114.304 W.	47.201 N.	113.924 W.
Jocko R, M Fk	47.201 N.	113.924 W.	47.203 N.	113.761 W.

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Jocko R, N Fk	47.201 N.	113.924 W.	47.226 N.	113.816 W.
Jocko R, S Fk	47.195 N.	113.852 W.	47.104 N.	113.766 W.
Johnson Cr	48.139 N.	116.229 W.	48.131 N.	116.225 W.
Kalispell Creek	48.567 N.	116.921 W.	48.626 N.	117.134 W.
Kintla Cr	48.975 N.	114.250 W.	48.986 N.	114.063 W.
Kintla Lake	Located at		48.966 N.	114.297 W.
Lake Alva	Located at		47.314 N.	113.582 W.
Lake Inez	Located at		47.270 N.	113.566 W.
Lake Isabel	Located at		48.422 N.	113.493 W.
Lake McDonald	Located at		48.576 N.	113.932 W.
Landers Fk	46.965 N.	112.562 W.	47.099 N.	112.566 W.
Lightning Creek	48.140 N.	116.191 W.	48.353 N.	116.175 W.
Lincoln Cr	48.592 N.	113.766 W.	48.595 N.	113.758 W.
Lincoln Lake	Located at		48.591 N.	113.770 W.
Lindbergh Lake	Located at		47.359 N.	113.731 W.
Lion Cr	47.681 N.	113.815 W.	47.670 N.	113.710 W.
Lion Creek	48.736 N.	116.831 W.	48.725 N.	116.672 W.
Little Blackfoot R	46.515 N.	112.797 W.	46.341 N.	112.465 W.
Little Joe Cr	47.297 N.	115.120 W.	47.270 N.	115.140 W.
Logging Cr	48.784 N.	114.002 W.	48.776 N.	114.019 W.
Logging Lake	Located at		48.756 N.	114.077 W.
Lost Cr, S Fk	47.873 N.	113.824 W.	47.869 N.	113.736 W.
Lower Quartz Lake	Located at		48.810 N.	114.170 W.
McDonald Cr	48.632 N.	113.868 W.	48.646 N.	113.847 W.
McDonald Lake	Located at		47.421 N.	113.976 W.
Meadow Cr	46.157 N.	113.439 W.	46.092 N.	113.443 W.
Middle Fork East River	48.371 N.	116.819 W.	48.362 N.	116.659 W.
Middle Fork Flathead River	48.468 N.	114.069 W.	47.996 N.	113.057 W.
Middle Quartz Lake	Located at		48.822 N.	114.141 W.
Mill Creek	46.348 N.	114.152 W.	46.312 N.	114.286 W.
Mission Cr	47.354 N.	114.285 W.	47.320 N.	113.988 W.
Mission Reservoir	Located at		47.321 N.	114.005 W.
Monture Cr	47.020 N.	113.235 W.	47.301 N.	113.249 W.
Moose Meadow Cr	46.139 N.	113.591 W.	46.078 N.	113.635 W.
Morrell Cr	47.141 N.	113.460 W.	47.342 N.	113.471 W.
North Fork Blackfoot River	46.985 N.	113.129 W.	47.197 N.	112.886 W.
North Fork Flathead River	48.468 N.	114.069 W.	49.000 N.	114.474 W.
North Fork Grouse Creek	48.452 N.	116.373 W.	48.502 N.	116.265 W.
North Fork Indian Creek	48.634 N.	116.789 W.	48.627 N.	116.691 W.
North Gold Creek	47.974 N.	116.452 W.	47.975 N.	116.426 W.
Nyack Creek	48.458 N.	113.804 W.	48.489 N.	113.700 W.
Ole Cr	48.283 N.	113.598 W.	48.315 N.	113.463 W.
Overwhich Cr	45.675 N.	114.307 W.	45.717 N.	114.080 W.
Owl Cr	47.115 N.	113.441 W.	47.115 N.	113.502 W.
Pack River	48.320 N.	116.382 W.	48.613 N.	116.634 W.
Park Cr	48.310 N.	113.613 W.	48.369 N.	113.490 W.
Park Cr	48.422 N.	113.496 W.	48.421 N.	113.505 W.
Petty Cr	46.992 N.	114.446 W.	46.850 N.	114.438 W.
Piper Cr	47.675 N.	113.815 W.	47.637 N.	113.844 W.
Placid Cr	47.116 N.	113.541 W.	47.187 N.	113.692 W.
Placid Lake	Located at		47.119 N.	113.522 W.
Post Creek	47.360 N.	114.168 W.	47.410 N.	113.935 W.
Priest Lake	Located at		48.481 N.	116.875 W.
Priest River	48.178 N.	116.892 W.	48.353 N.	116.852 W.
Prospect Cr	47.592 N.	115.358 W.	47.569 N.	115.676 W.
Quartz Cr	48.815 N.	114.165 W.	48.839 N.	114.003 W.
Quartz Lake	Located at		48.826 N.	114.100 W.
Racetrack Cr	46.285 N.	112.729 W.	46.279 N.	112.949 W.
Rainbow Cr	48.855 N.	114.053 W.	48.869 N.	114.052 W.
Rainy Lake	Located at		47.340 N.	113.593 W.
Ranch Cr	46.583 N.	113.678 W.	46.468 N.	113.577 W.
Rattlesnake Cr	46.867 N.	113.985 W.	47.098 N.	113.909 W.
Red Meadow Cr	48.805 N.	114.324 W.	48.753 N.	114.565 W.
Rock Cr, E Fk	46.200 N.	113.499 W.	46.021 N.	113.319 W.
Rock Cr, M Fk	46.223 N.	113.521 W.	45.949 N.	113.523 W.
Rock Cr, Ross Fk	46.224 N.	113.525 W.	46.034 N.	113.779 W.
Rock Cr, W Fk	46.223 N.	113.521 W.	46.144 N.	113.721 W.
Rock Creek	46.725 N.	113.682 W.	46.223 N.	113.521 W.
Rock Creek	47.975 N.	115.742 W.	48.040 N.	115.676 W.
Saint Mary's Lake	Located at		47.261 N.	113.919 W.
Salmon Lake	Located at		47.099 N.	113.406 W.
Seeley Lake	Located at		47.187 N.	113.505 W.

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Skalkaho Cr	46.220 N.	114.162 W.	46.057 N.	113.807 W.
Sleeping Child Cr	46.162 N.	114.159 W.	46.033 N.	113.814 W.
Soldier Creek	48.503 N.	116.838 W.	48.547 N.	116.698 W.
Soup Cr	47.837 N.	113.843 W.	47.812 N.	113.751 W.
South Boulder Cr	46.441 N.	113.214 W.	46.330 N.	113.219 W.
South Fork Bull River	48.109 N.	115.782 W.	48.152 N.	115.784 W.
South Fork Granite Creek	48.700 N.	117.029 W.	48.761 N.	117.147 W.
South Fork Indian Creek	48.634 N.	116.789 W.	48.624 N.	116.716 W.
South Fork Lion Creek	48.743 N.	116.797 W.	48.716 N.	116.718 W.
Squeezer Cr	47.750 N.	113.815 W.	47.717 N.	113.727 W.
St Regis R	47.297 N.	115.089 W.	47.427 N.	115.741 W.
Stillwater R	48.604 N.	114.655 W.	48.789 N.	114.685 W.
Stony Cr	46.348 N.	113.603 W.	46.283 N.	113.771 W.
Storm Lake Cr	46.169 N.	113.153 W.	46.075 N.	113.267 W.
Sullivan Springs	48.088 N.	116.411 W.	48.084 N.	116.387 W.
Swan Lake	Located at		47.968 N.	113.910 W.
Swan River	47.928 N.	113.880 W.	47.295 N.	113.782 W.
Swift Cr	48.481 N.	114.424 W.	48.654 N.	114.550 W.
Swift Cr, E Fk	48.687 N.	114.582 W.	48.756 N.	114.583 W.
Swift Cr, W Fk	48.654 N.	114.550 W.	48.723 N.	114.667 W.
Tarlac Creek	48.393 N.	116.737 W.	48.349 N.	116.717 W.
The Thorofare	48.740 N.	116.842 W.	48.766 N.	116.864 W.
Thompson R	47.576 N.	115.240 W.	47.713 N.	115.058 W.
Trail Creek	48.924 N.	114.386 W.	48.934 N.	114.534 W.
Trapper Creek	48.796 N.	116.896 W.	48.877 N.	116.846 W.
Trestle Creek	48.283 N.	116.352 W.	48.352 N.	116.234 W.
Trout Cr	47.143 N.	114.829 W.	47.004 N.	114.992 W.
Trout Lake	Located at		48.677 N.	113.912 W.
Twelvemile Cr	47.350 N.	115.291 W.	47.465 N.	115.324 W.
Twin Creek	48.094 N.	116.129 W.	48.063 N.	116.151 W.
Twin Lakes Cr	46.169 N.	113.152 W.	46.056 N.	113.226 W.
Two Mouth Creek	48.688 N.	116.836 W.	48.674 N.	116.676 W.
Uleda Creek	48.388 N.	116.707 W.	48.339 N.	116.694 W.
Upper Kintla Lake	Located at		48.974 N.	114.173 W.
Upper Priest River	48.799 N.	116.911 W.	49.000 N.	116.936 W.
Upper Stillwater Lake	Located at		48.587 N.	114.636 W.
Upper Whitefish Lake	Located at		48.687 N.	114.578 W.
Upper Willow Cr	46.331 N.	113.542 W.	46.566 N.	113.522 W.
Vermilion R	47.833 N.	115.535 W.	47.869 N.	115.409 W.
Wahlquist Cr	46.501 N.	113.776 W.	46.531 N.	113.843 W.
Warm Springs Cr	45.860 N.	114.025 W.	45.726 N.	114.057 W.
Warm Springs Cr	46.210 N.	112.767 W.	46.261 N.	113.137 W.
West Fork Bitterroot River	45.944 N.	114.128 W.	45.461 N.	114.341 W.
West Gold Creek	47.954 N.	116.451 W.	47.944 N.	116.477 W.
Whale Cr	48.849 N.	114.352 W.	48.851 N.	114.593 W.
Whitefish Lake	Located at		48.455 N.	114.387 W.
Woodward Cr	47.777 N.	113.845 W.	47.767 N.	113.879 W.
Woodward Cr, S Fk	47.754 N.	113.857 W.	47.717 N.	113.857 W.

(ii) Map of Unit 2, Clark Fork River Basin, follows:

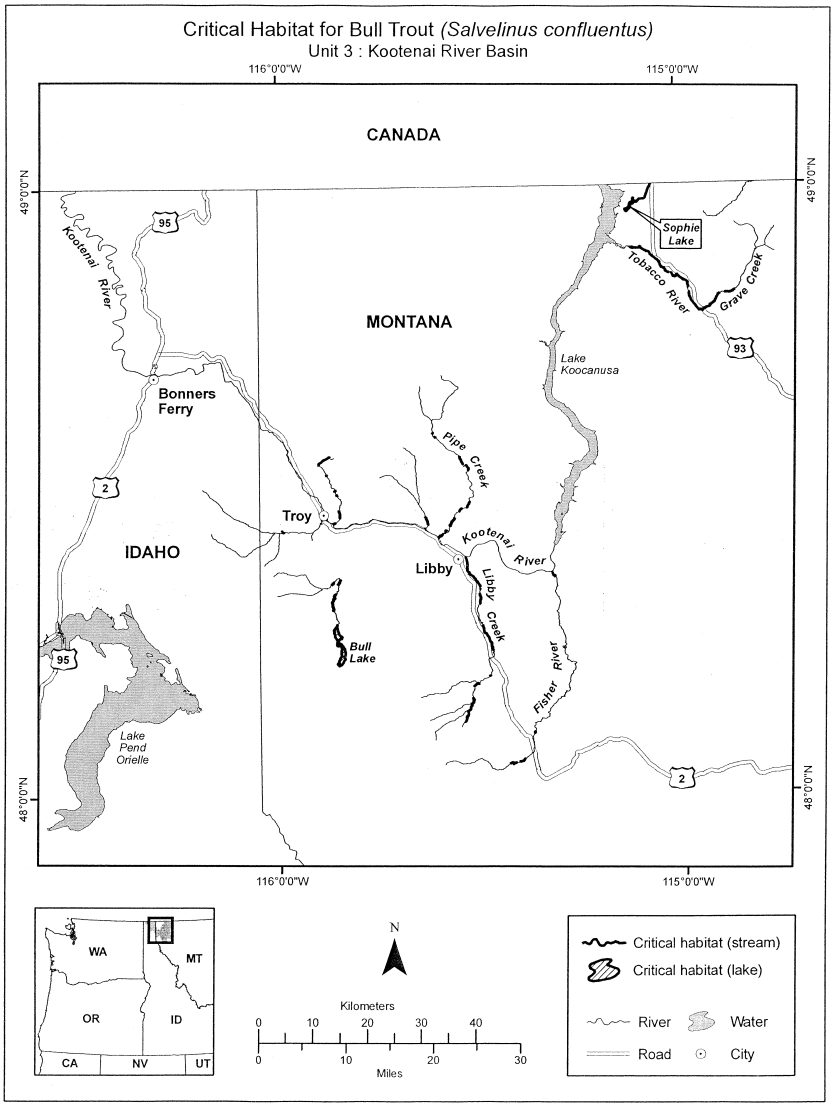


(9) Unit 3: Kootenai River Basin.

(i) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Bull Lake	Located at		48.218 N.	115.853 W.
Callahan Cr	48.435 N.	116.012 W.	48.458 N.	115.881 W.
Fisher R	48.366 N.	115.323 W.	48.070 N.	115.374 W.
Grave Cr	48.798 N.	114.952 W.	48.927 N.	114.750 W.
Keeler Cr	48.360 N.	115.851 W.	48.331 N.	116.006 W.
Lake Creek	48.360 N.	115.851 W.	48.283 N.	115.858 W.
Libby Creek	48.393 N.	115.537 W.	48.112 N.	115.552 W.
O'Brien Cr	48.448 N.	115.866 W.	48.557 N.	115.862 W.
Phillips Cr	48.971 N.	115.104 W.	49.000 N.	115.062 W.
Pipe Cr	48.424 N.	115.606 W.	48.674 N.	115.647 W.
Poorman Creek	48.149 N.	115.526 W.	48.123 N.	115.631 W.
Quartz Cr	48.438 N.	115.638 W.	48.573 N.	115.689 W.
Sophie Lake	Located at		48.962 N.	115.116 W.
Tobacco R	48.897 N.	115.126 W.	48.798 N.	114.952 W.
West Fisher Creek	48.070 N.	115.374 W.	48.050 N.	115.594 W.

(ii) Map of Unit 3, Kootenai River Basin, follows:

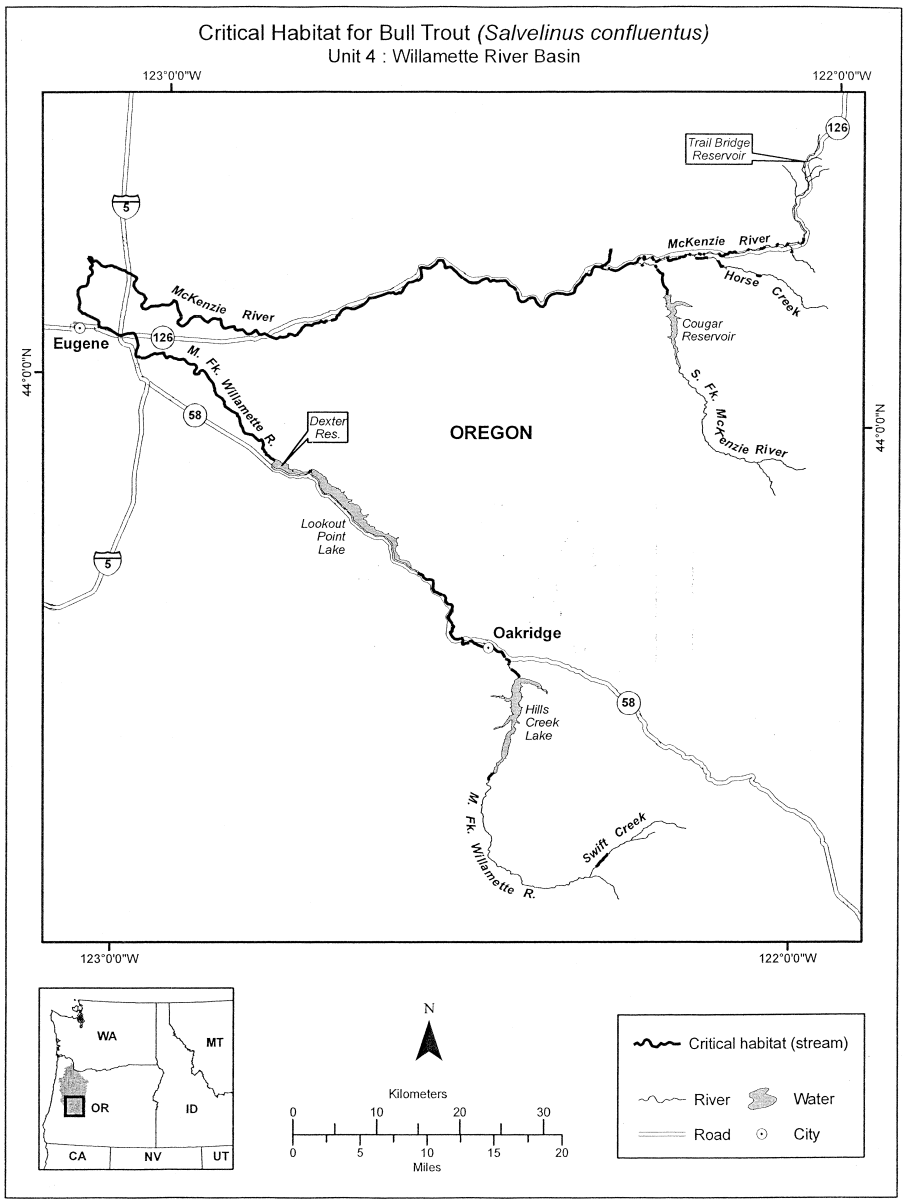


(10) Unit 4: Willamette River Basin.

(i) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Blue River	44.153 N.	122.342 W.	44.172 N.	122.328 W.
Horse Creek	44.170 N.	122.174 W.	44.125 N.	122.036 W.
Lost Creek	44.190 N.	122.066 W.	44.162 N.	122.022 W.
Mckenzie River	44.126 N.	123.106 W.	44.309 N.	122.028 W.
Middle Fork Willamette River	44.023 N.	123.017 W.	43.481 N.	122.254 W.
South Fork Mckenzie River	44.159 N.	122.295 W.	43.953 N.	122.017 W.
Swift Creek	43.502 N.	122.299 W.	43.560 N.	122.162 W.
West Fork Horse Creek	44.172 N.	122.206 W.	44.170 N.	122.174 W.
Willamette River	44.126 N.	123.106 W.	44.023 N.	123.017 W.

(ii) Map of Unit 4, Willamette River Basin, follows:

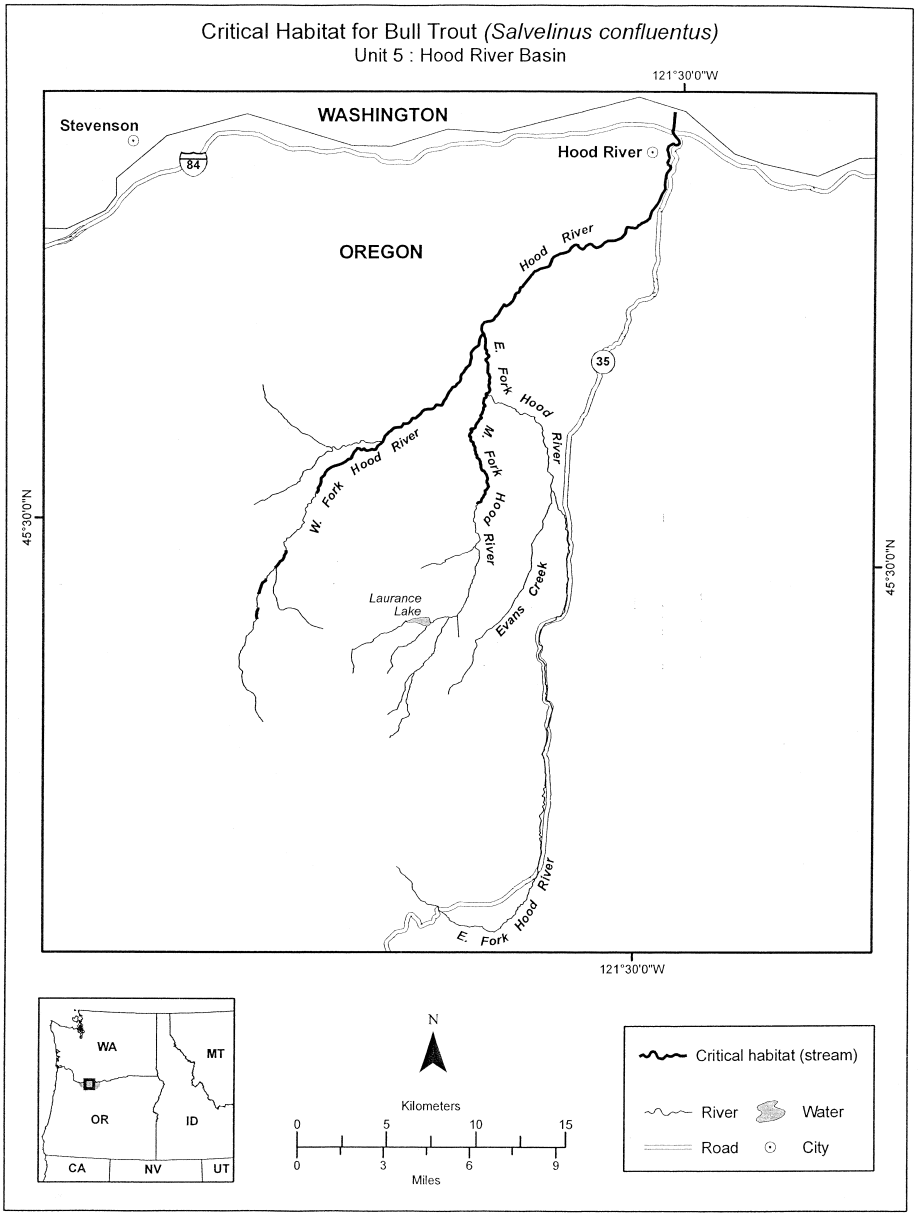


(11) Unit 5: Hood River Basin.

(i) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
East Fork Hood River	45.605 N.	121.632 W.	45.575 N.	121.626 W.
Hood River	45.721 N.	121.506 W.	45.605 N.	121.632 W.
Middle Fork Hood River	45.575 N.	121.626 W.	45.463 N.	121.645 W.
West Fork Hood River	45.605 N.	121.632 W.	45.456 N.	121.781 W.

(ii) Map of Unit 5, Hood River Basin, follows:

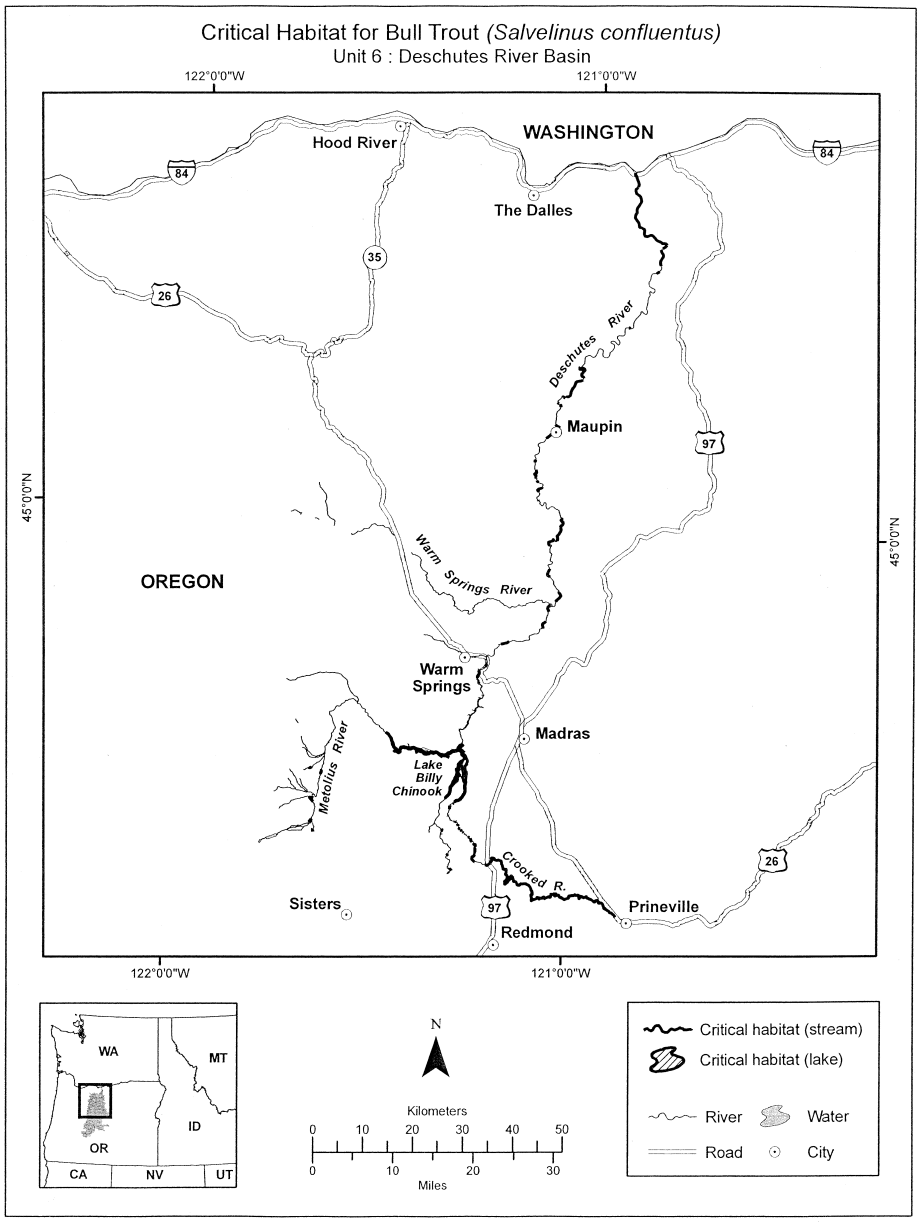


(12) Unit 6: Deschutes River Basin.

(i) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Abbot Creek	44.570 N.	121.619 W.	44.544 N.	121.670 W.
Deschutes River	45.639 N.	120.914 W.	44.373 N.	121.291 W.
Heising Spring	44.494 N.	121.648 W.	44.491 N.	121.651 W.
Jack Creek	44.493 N.	121.647 W.	44.472 N.	121.725 W.
Lake Billy Chinook	Located at		44.584 N.	121.363 W.
Metolius River	44.577 N.	121.619 W.	44.434 N.	121.637 W.
Spring Creek	44.457 N.	121.642 W.	44.451 N.	121.650 W.

(ii) Map of Unit 6, Deschutes River Basin, follows:

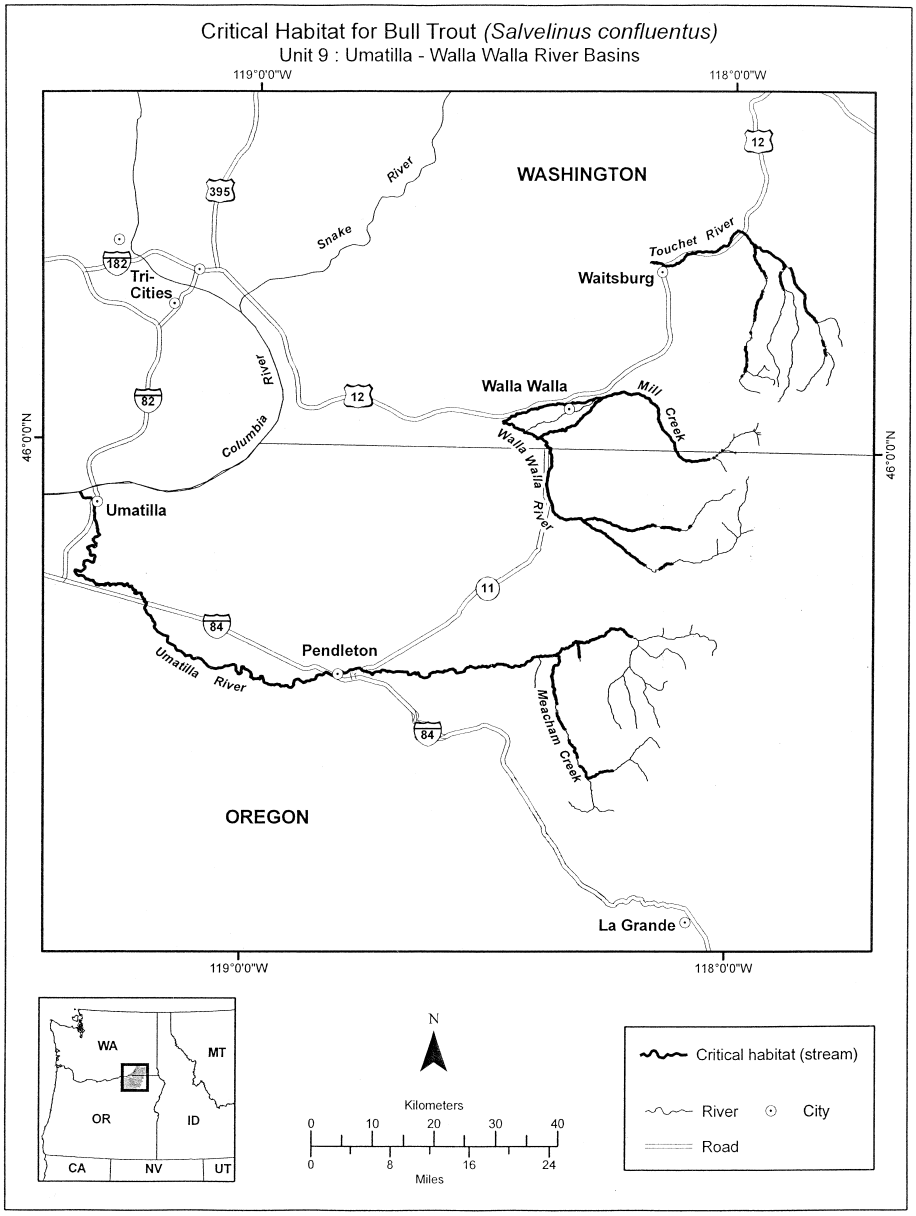


(13) Unit 9: Umatilla-Walla Walla River Basins.

(i) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Griffin Fork	46.121 N.	117.973 W.	46.099 N.	117.913 W.
Lewis Creek	46.191 N.	117.824 W.	46.156 N.	117.771 W.
Low Creek	45.993 N.	118.035 W.	45.973 N.	118.009 W.
Meacham Creek	45.702 N.	118.359 W.	45.527 N.	118.290 W.
Mill Creek	46.039 N.	118.478 W.	46.011 N.	117.941 W.
North Fork Meacham Creek	45.527 N.	118.290 W.	45.575 N.	118.174 W.
North Fork Touchet River	46.302 N.	117.959 W.	46.093 N.	117.864 W.
North Fork Walla Walla River	45.899 N.	118.307 W.	45.947 N.	117.990 W.
Paradise Creek	46.004 N.	118.017 W.	46.001 N.	117.990 W.
Ryan Creek	45.723 N.	118.314 W.	45.694 N.	118.308 W.
South Fork Touchet River	46.302 N.	117.959 W.	46.105 N.	117.985 W.
South Fork Walla Walla River	45.899 N.	118.307 W.	45.966 N.	117.963 W.
Spangler Creek	46.149 N.	117.806 W.	46.099 N.	117.802 W.
Touchet River	46.272 N.	118.174 W.	46.302 N.	117.959 W.
Umatilla River	45.923 N.	119.356 W.	45.726 N.	118.187 W.
Walla Walla River	46.039 N.	118.478 W.	45.899 N.	118.307 W.
Wolf Fork Touchet River	46.274 N.	117.895 W.	46.075 N.	117.903 W.
Yellowhawk Creek	46.017 N.	118.400 W.	46.077 N.	118.272 W.

(ii) Map of Unit 9, Umatilla-Walla Walla River Basins, follows:

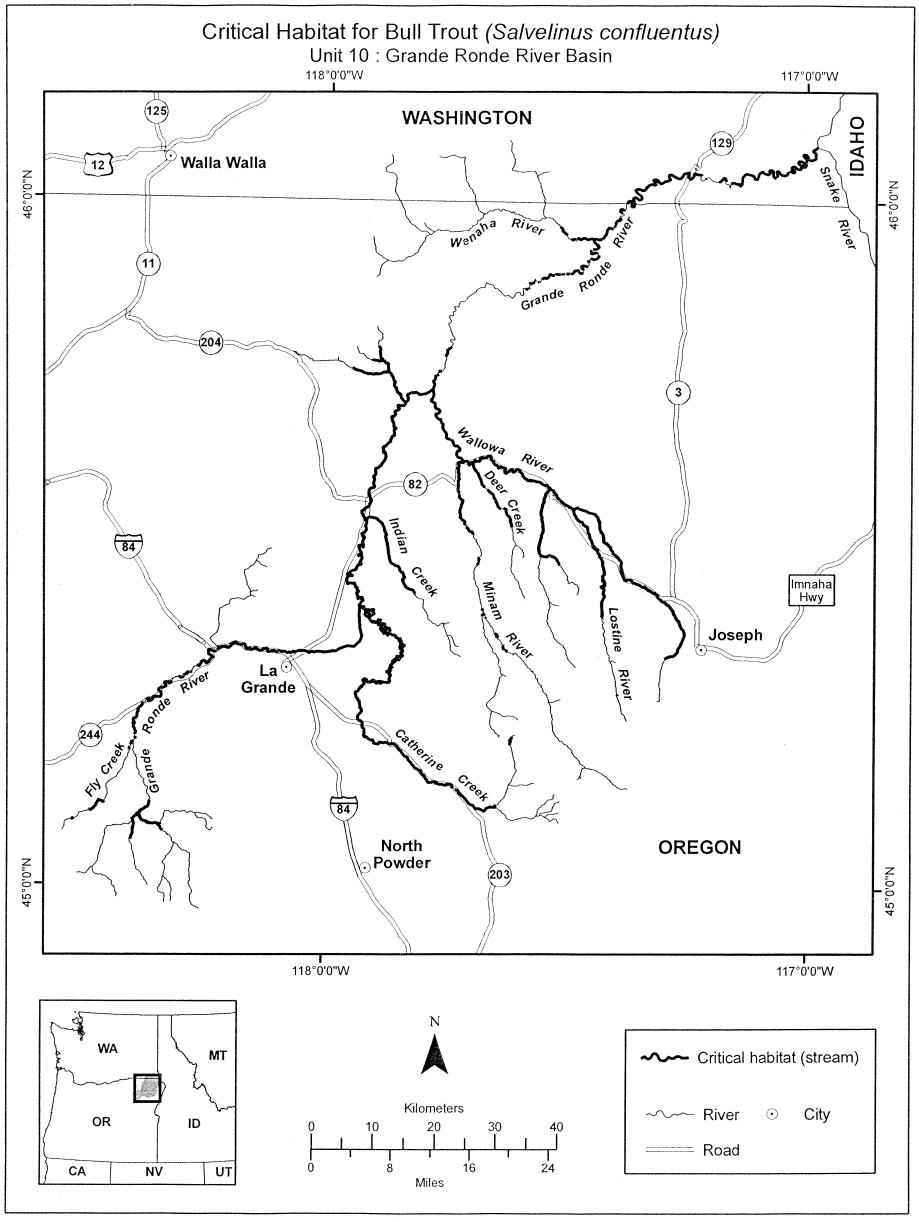


(14) Unit 10: Grande Ronde River Basin.

(i) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Bear Creek	45.584 N.	117.540 W.	45.323 N.	117.480 W.
Catherine Creek	45.408 N.	117.930 W.	45.120 N.	117.646 W.
Chicken Creek	45.095 N.	118.394 W.	45.024 N.	118.385 W.
Deer Creek	45.620 N.	117.699 W.	45.423 N.	117.587 W.
Fly Creek	45.210 N.	118.394 W.	45.121 N.	118.465 W.
Grande Ronde River	46.080 N.	116.978 W.	44.967 N.	118.254 W.
Hurricane Creek	45.420 N.	117.301 W.	45.274 N.	117.310 W.
Indian Creek	45.534 N.	117.919 W.	45.337 N.	117.721 W.
Limber Jim Creek	45.089 N.	118.343 W.	45.085 N.	118.229 W.
Little Bear Creek	45.485 N.	117.554 W.	45.428 N.	117.479 W.
Little Fly Creek	45.121 N.	118.465 W.	45.110 N.	118.475 W.
Little Lookingglass Creek	45.750 N.	117.874 W.	45.817 N.	117.901 W.
Little Minam River	45.401 N.	117.671 W.	45.246 N.	117.599 W.
Lookingglass Creek	45.707 N.	117.841 W.	45.779 N.	118.078 W.
Lookout Creek	45.110 N.	118.475 W.	45.078 N.	118.540 W.
Lostine River	45.552 N.	117.489 W.	45.246 N.	117.374 W.
Minam River	45.621 N.	117.720 W.	45.148 N.	117.371 W.
Mottet Creek	45.767 N.	117.886 W.	45.788 N.	117.942 W.
North Fork Catherine Creek	45.120 N.	117.646 W.	45.225 N.	117.604 W.
Sheep Creek	45.105 N.	118.381 W.	45.016 N.	118.507 W.
South Fork Catherine Creek	45.120 N.	117.646 W.	45.112 N.	117.513 W.
Wallowa River	45.726 N.	117.784 W.	45.420 N.	117.301 W.
Wenaha River	45.946 N.	117.450 W.	45.951 N.	117.794 W.

(ii) Map of Unit 10, Grande Ronde River Basin, follows:

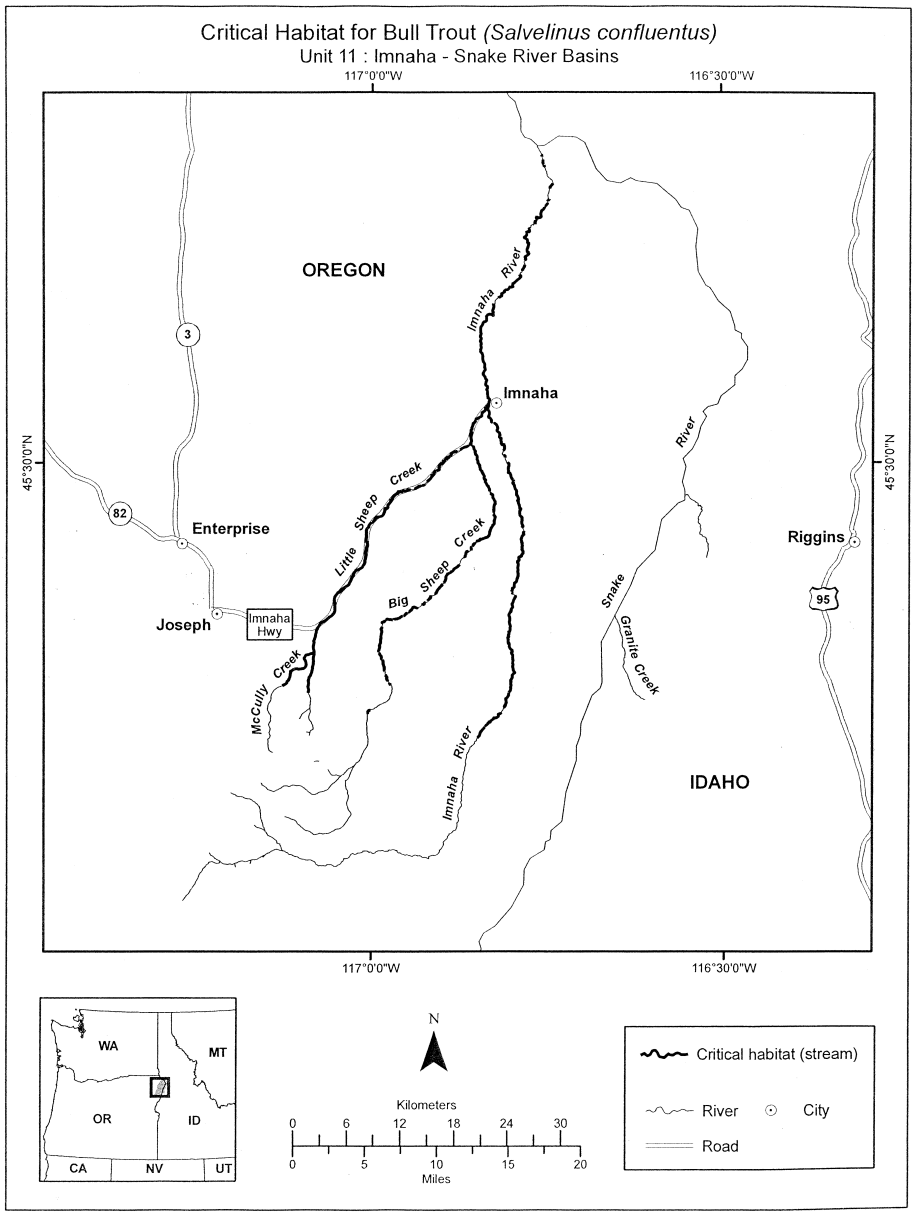


(15) Unit 11: Imnaha-Snake River Basins.

(i) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Big Sheep Creek	45.557 N.	116.834 W.	45.178 N.	117.119 W.
Imnaha River	45.817 N.	116.764 W.	45.113 N.	117.125 W.
Little Sheep Creek	45.520 N.	116.859 W.	45.232 N.	117.093 W.
McCully Creek	45.311 N.	117.082 W.	45.211 N.	117.140 W.

(ii) Map of Unit 11, Imnaha-Snake River Basins, follows:

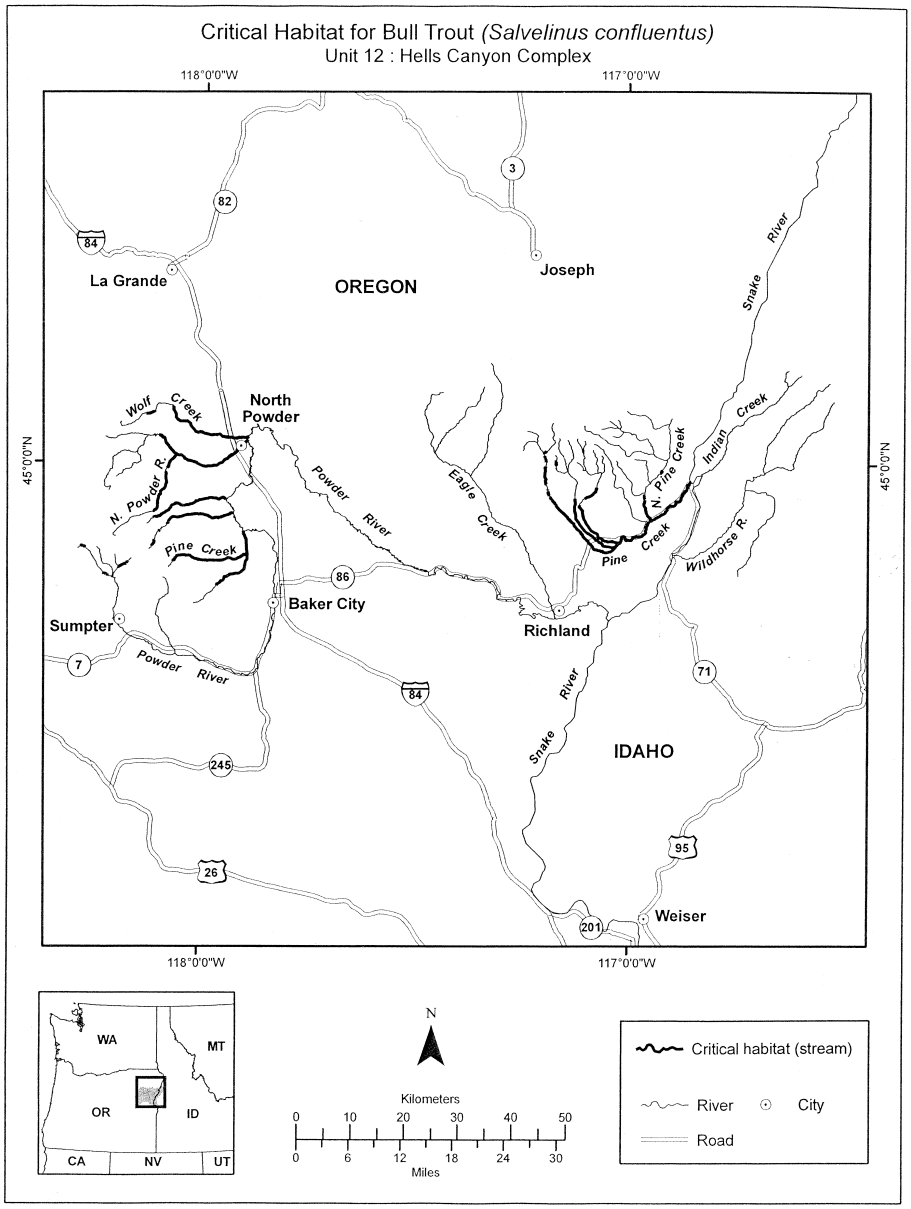


(16) Unit 12: Hells Canyon Complex.

(i) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Anthony Creek	45.013 N.	118.059 W.	44.953 N.	118.220 W.
Big Muddy Creek	44.940 N.	117.945 W.	44.899 N.	118.131 W.
Clear Creek	44.866 N.	117.029 W.	45.043 N.	117.143 W.
East Fork Pine Creek	45.022 N.	117.200 W.	45.072 N.	117.176 W.
East Pine Creek	44.872 N.	117.020 W.	45.046 N.	117.119 W.
Little Cracker Creek	44.826 N.	118.196 W.	44.840 N.	118.166 W.
Meadow Creek	44.990 N.	117.142 W.	45.017 N.	117.171 W.
North Pine Creek	44.910 N.	116.948 W.	45.079 N.	116.897 W.
North Powder River	45.039 N.	117.895 W.	44.878 N.	118.203 W.
Pine Creek	44.849 N.	117.893 W.	44.826 N.	118.078 W.
Pine Creek	44.974 N.	116.853 W.	45.039 N.	117.215 W.
Rock Creek	44.918 N.	117.929 W.	44.856 N.	118.124 W.
Salmon Creek	44.888 N.	117.902 W.	44.767 N.	118.019 W.
Silver Creek	44.809 N.	118.207 W.	44.857 N.	118.291 W.
Wolf Creek	45.044 N.	117.893 W.	45.068 N.	118.193 W.

(ii) Map of Unit 12, Hells Canyon Complex, follows:

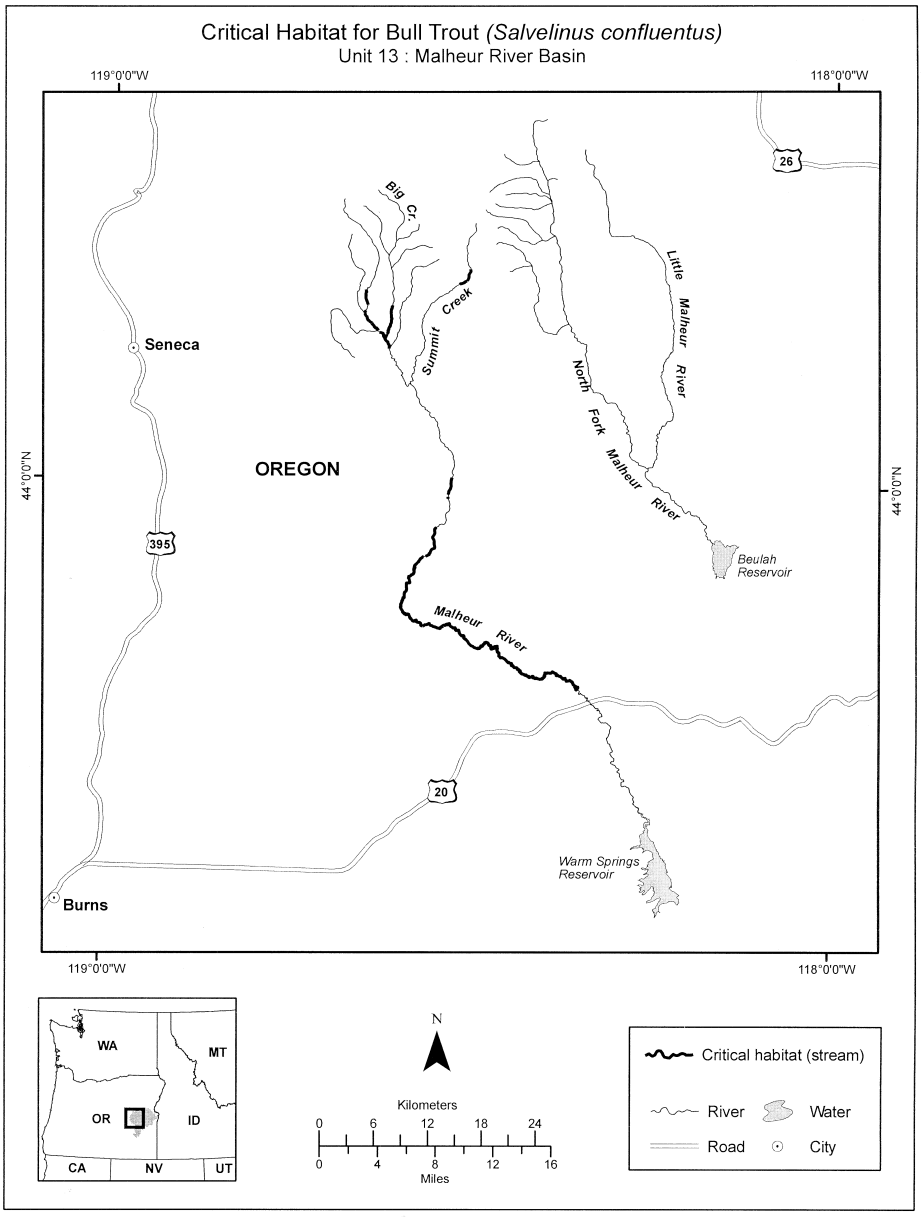


(17) Unit 13: Malheur River Basin.

(i) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Big Creek	44.145 N.	118.624 W.	44.292 N.	118.638 W.
Lake Creek	44.145 N.	118.624 W.	44.283 N.	118.683 W.
Malheur River	43.686 N.	118.270 W.	44.145 N.	118.624 W.
Summit Creek	44.099 N.	118.587 W.	44.261 N.	118.501 W.

(ii) Map of Unit 13, Malheur River Basin, follows:

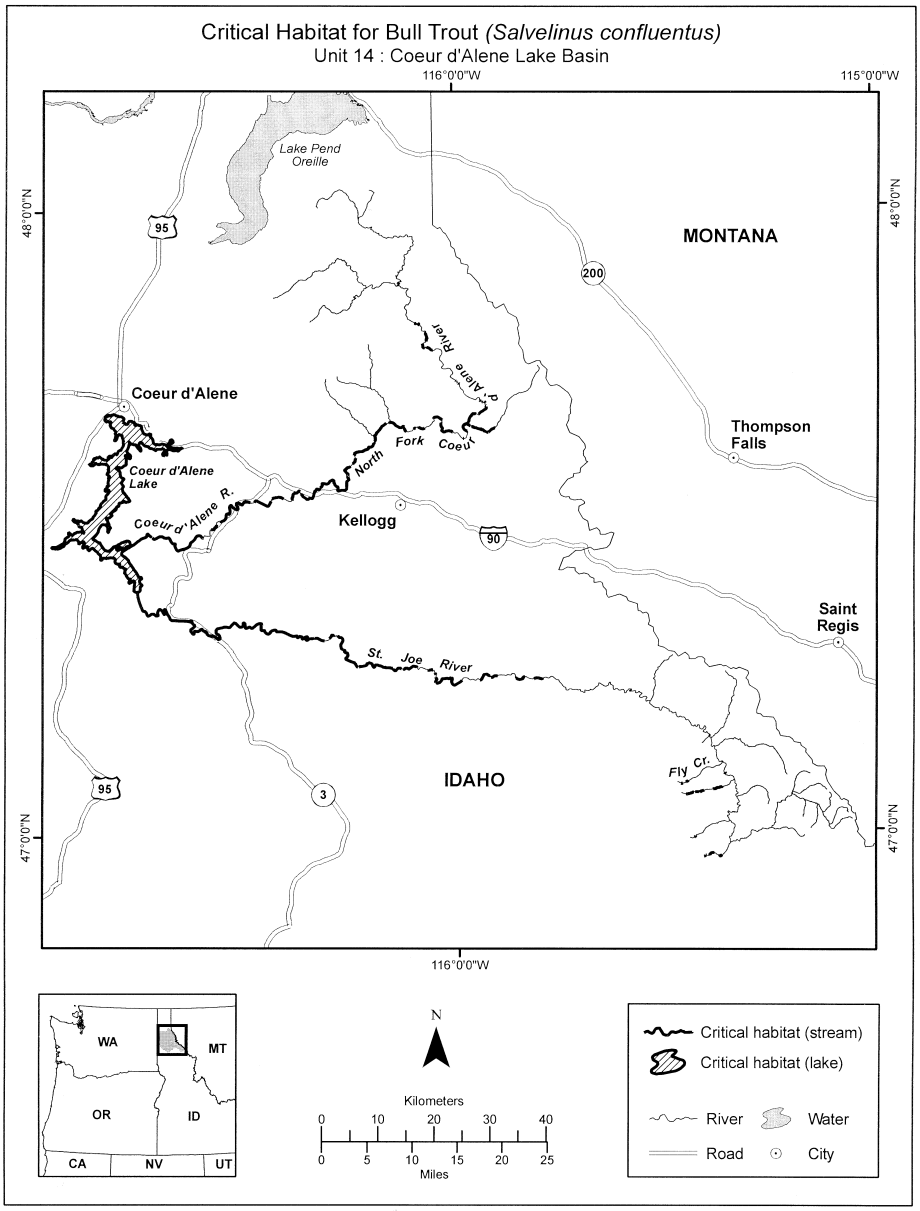


(18) Unit 14: Coeur d'Alene Lake Basin.

(i) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Beaver Creek	47.083 N.	115.355 W.	47.064 N.	115.480 W.
Coeur d'Alene Lake	Located at		47.449 N.	116.798 W.
Coeur d'Alene River	47.460 N.	116.798 W.	47.558 N.	116.257 W.
Eagle Creek	47.644 N.	115.921 W.	47.652 N.	115.903 W.
Fly Creek	47.113 N.	115.385 W.	47.081 N.	115.489 W.
North Fork Coeur d'Alene River	47.558 N.	116.257 W.	48.006 N.	116.321 W.
Prichard Creek	47.658 N.	115.976 W.	47.644 N.	115.921 W.
Ruby Creek	46.983 N.	115.367 W.	46.961 N.	115.430 W.
St. Joe River	47.393 N.	116.749 W.	47.017 N.	115.078 W.
Steamboat Creek	47.662 N.	116.154 W.	47.716 N.	116.199 W.
Timber Creek	47.018 N.	115.368 W.	46.992 N.	115.462 W.

(ii) Map of Unit 14, Coeur d'Alene Lake Basin, follows:

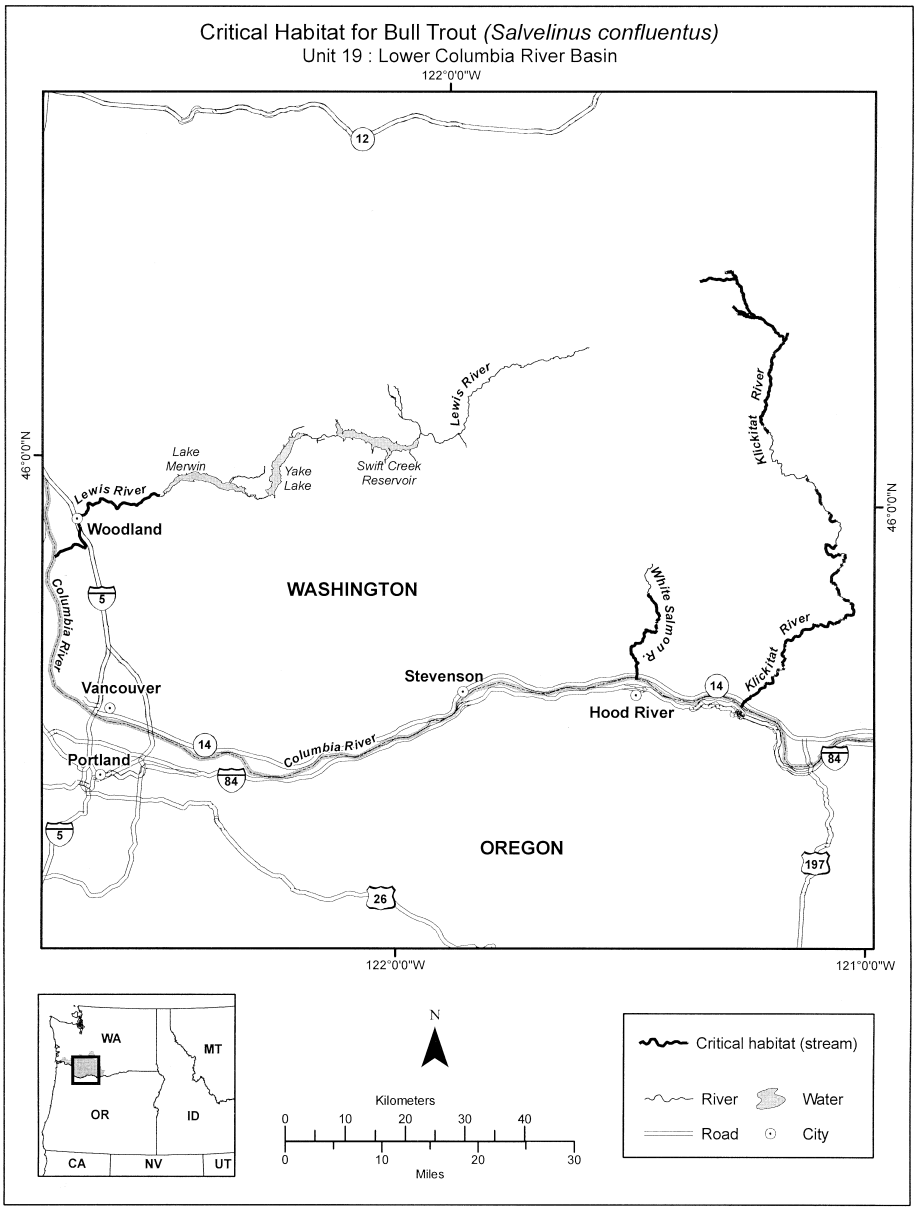


(19) Unit 19: Lower Columbia River Basin.

(i) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Clearwater Creek	46.276 N.	121.327 W.	46.278 N.	121.330 W.
Fish Lake Stream	46.275 N.	121.312 W.	46.342 N.	121.368 W.
Klickitat River	45.691 N.	121.293 W.	46.255 N.	121.239 W.
Lewis River (Lower)	45.850 N.	122.782 W.	45.957 N.	122.555 W.
Little Muddy Creek	46.275 N.	121.312 W.	46.278 N.	121.352 W.
Trappers Creek	46.275 N.	121.330 W.	46.290 N.	121.362 W.
Two Lakes Stream	46.342 N.	121.368 W.	46.340 N.	121.384 W.
UNNAMED—off Fish Lake Stream	46.331 N.	121.359 W.	46.323 N.	121.437 W.
West Fork Klickitat River	46.242 N.	121.246 W.	46.275 N.	121.312 W.
White Salmon River	45.723 N.	121.521 W.	45.897 N.	121.503 W.

(ii) Map of Unit 19, Lower Columbia River Basin, follows:

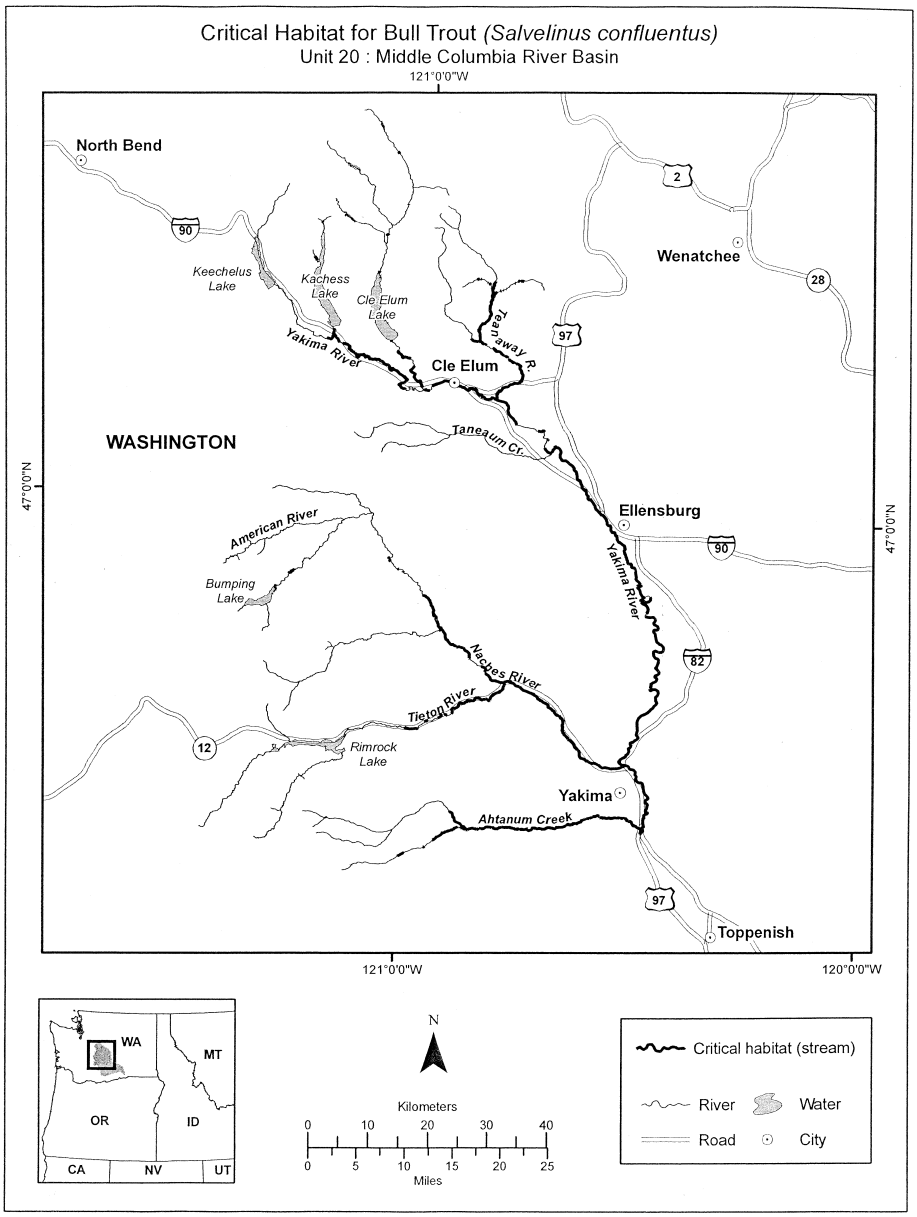


(20) Unit 20: Middle Columbia River Basin.

(i) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Ahtanum Creek	46.529 N.	120.472 W.	46.523 N.	120.853 W.
Box Canyon Creek	47.361 N.	121.243 W.	47.377 N.	121.257 W.
Bumping River	46.989 N.	121.094 W.	46.831 N.	121.377 W.
Cle Elum River	47.177 N.	120.990 W.	47.589 N.	121.161 W.
Cooper River	47.391 N.	121.098 W.	47.455 N.	121.213 W.
Gold Creek	47.390 N.	121.382 W.	47.475 N.	121.316 W.
Jack Creek	47.319 N.	120.855 W.	47.334 N.	120.742 W.
Jungle Creek	47.333 N.	120.855 W.	47.333 N.	120.923 W.
Kachess River	47.251 N.	121.200 W.	47.429 N.	121.222 W.
Naches River	46.630 N.	120.514 W.	46.989 N.	121.094 W.
North Fork Ahtanum Creek	46.523 N.	120.853 W.	46.538 N.	121.211 W.
North Fork Teanaway River	47.251 N.	120.877 W.	47.454 N.	120.965 W.
North Fork Tieton River	46.635 N.	121.261 W.	46.508 N.	121.435 W.
Rattlesnake Creek	46.820 N.	120.929 W.	46.760 N.	121.315 W.
South Fork Ahtanum Creek	46.523 N.	120.853 W.	46.454 N.	121.118 W.
Teanaway River	47.167 N.	120.834 W.	47.257 N.	120.897 W.
Tieton River	46.746 N.	120.786 W.	46.656 N.	121.129 W.
Yakima River	46.529 N.	120.472 W.	47.322 N.	121.339 W.

(ii) Map of Unit 20, Middle Columbia River Basin, follows:

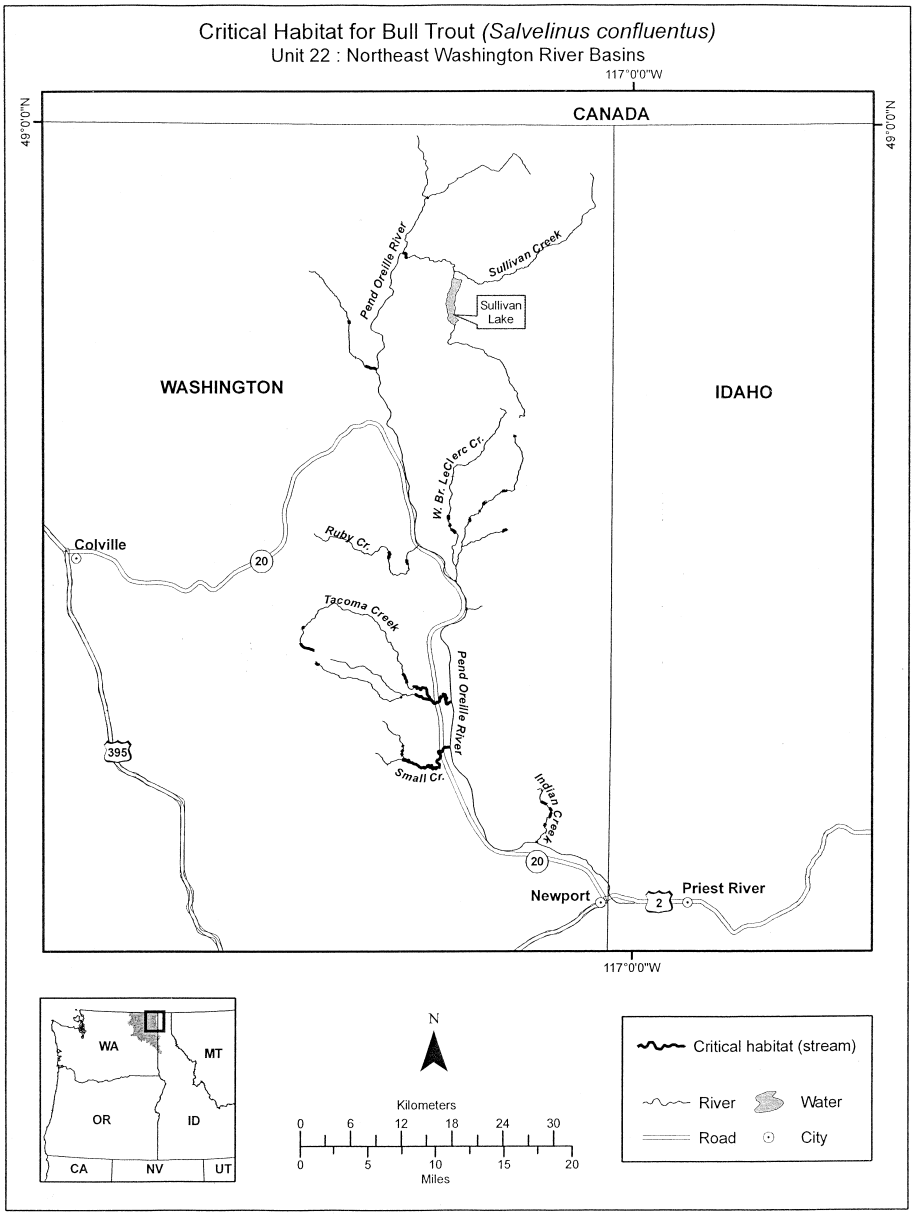


(21) Unit 22: Northeast Washington River Basins.

(i) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint Latitude	Stream endpoint latitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Calispell	48.344 N	117.289 W	48.321 N	117.307 W.
Cedar Creek	48.742 N.	117.411 W	48.846 N	117.521 W.
E. Fork Small Creek	48.328 N	117.354 W	48.371 N	117.398 W.
East Branch LeClerc Creek	48.534 N	117.282 W	48.673 N	117.188 W.
Fourth of July Creek	48.556 N	117.272 W	48.573 N	117.200 W.
Indian Creek	48.243 N	117.151 W	48.299 N	117.151 W.
LeClerc Creek	48.518 N	117.283 W	48.534 N	117.282 W.
Mill Creek	48.489 N	117.265 W	48.493 N	117.239 W.
Ruby Creek	48.556 N	117.342 W	48.568 N	117.509 W.
S. Fork Tacoma Creek	48.394 N	117.323 W	48.432 N	117.506 W.
Slate Creek	48.923 N	117.332 W	48.948 N	117.165 W.
Small Creek	48.321 N	117.307 W	48.337 N	117.409 W.
Sullivan Creek	48.865 N	117.370 W	48.950 N	117.070 W.
Tacoma Creek	48.392 N	117.288 W	48.445 N	117.507 W.
West Branch LeClerc Creek	48.534 N	117.282 W	48.701 N	117.211 W.

(ii) Map of Unit 22, Northeast Washington River Basins, follows:

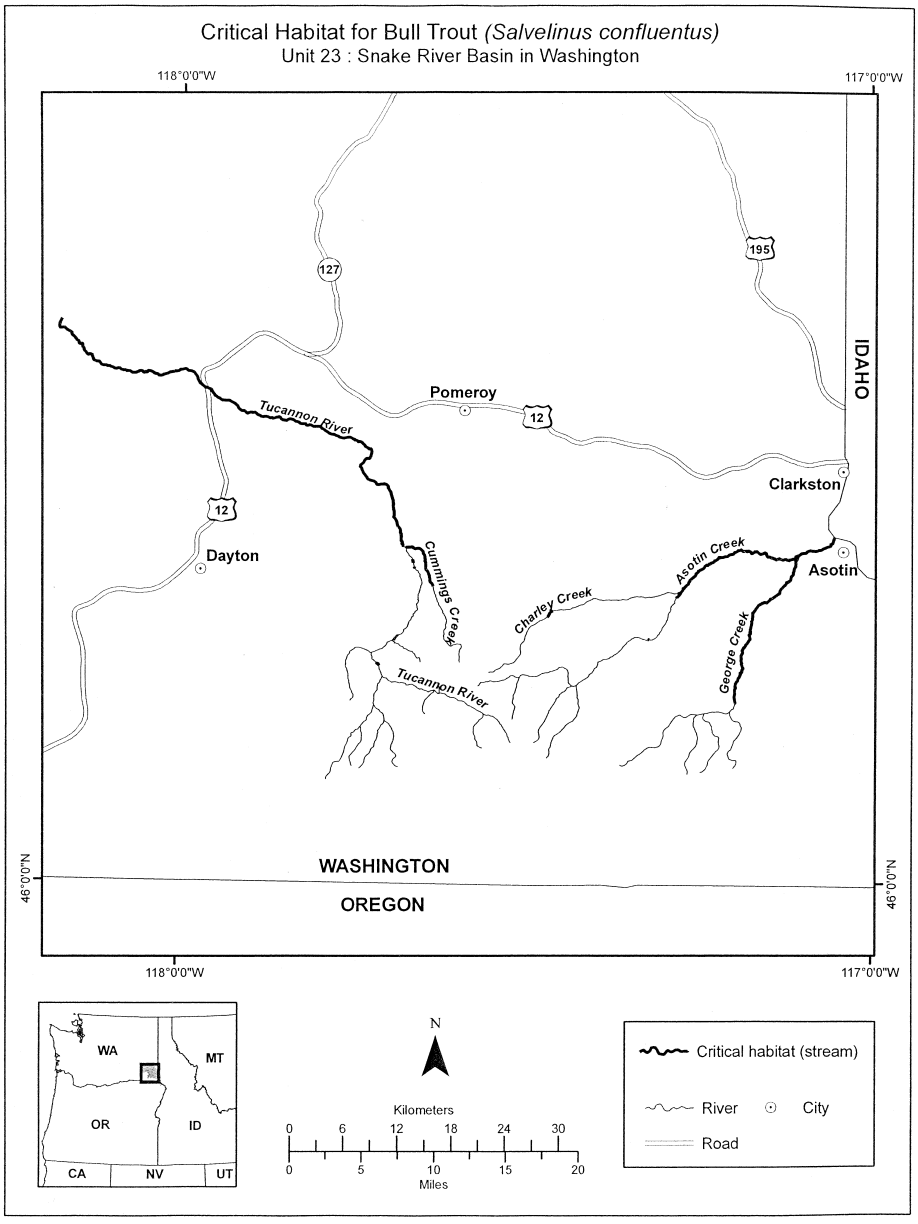


(22) Unit 23: Snake River Basin in Washington.

(i) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Asotin Creek	46.345 N	117.053 W	46.272 N	117.291 W.
Charley Creek	46.289 N	117.278 W	46.210 N	117.552 W.
Cummings Creek	46.333 N	117.674 W	46.219 N	117.595 W.
George Creek	46.326 N	117.105 W	46.118 N	117.363 W.
Hixon Creek	46.246 N	117.683 W	46.219 N	117.651 W.
N. Fork Asotin Creek	46.272 N	117.291 W	46.196 N	117.568 W.
Tucannon River	46.558 N	118.174 W	46.139 N	117.520 W

(ii) Map of Unit 23, Snake River Basin in Washington, follows:

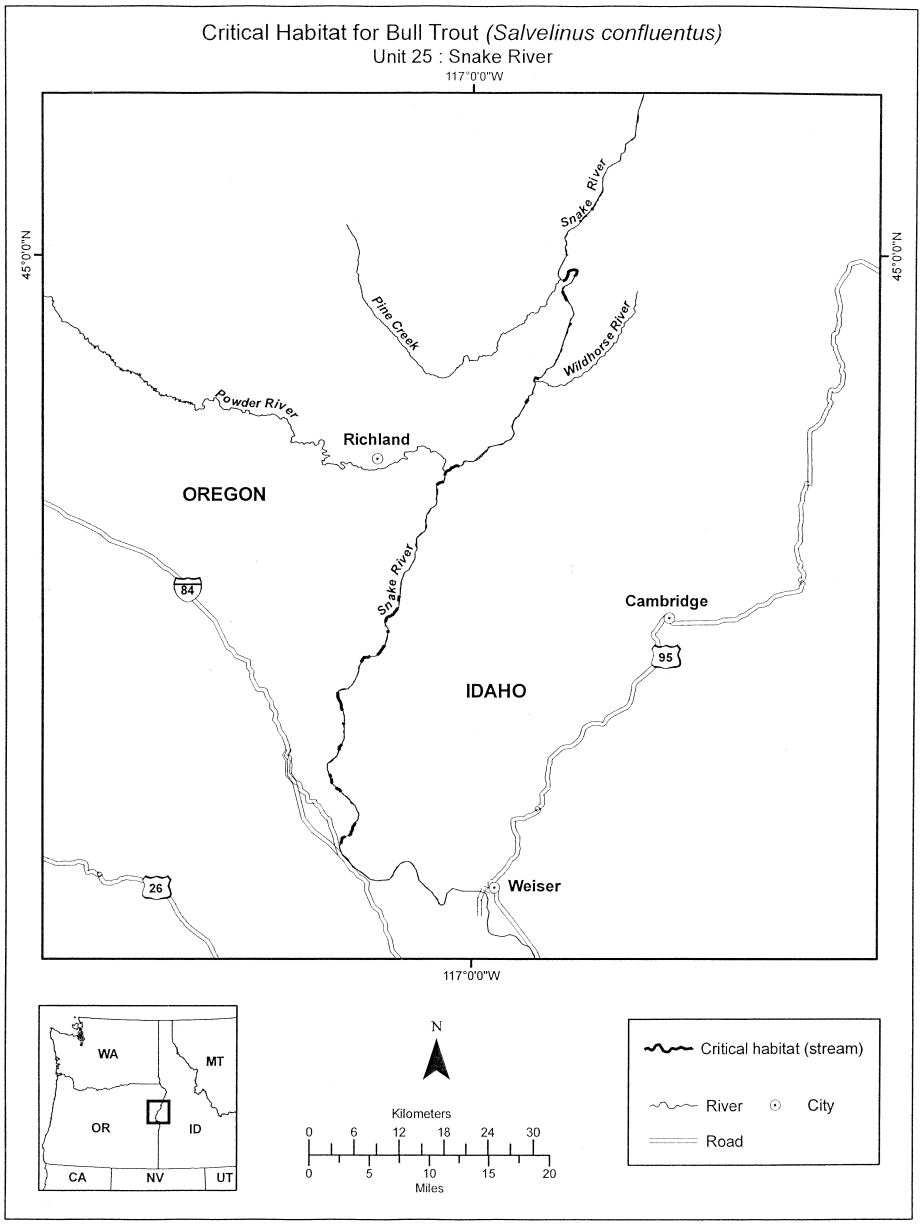


(23) Unit 25: Snake River.

(i) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Snake River	46.189 N	119.030 W	44.243 N	117.041 W.

(ii) Map of Unit 25, Snake River, follows:

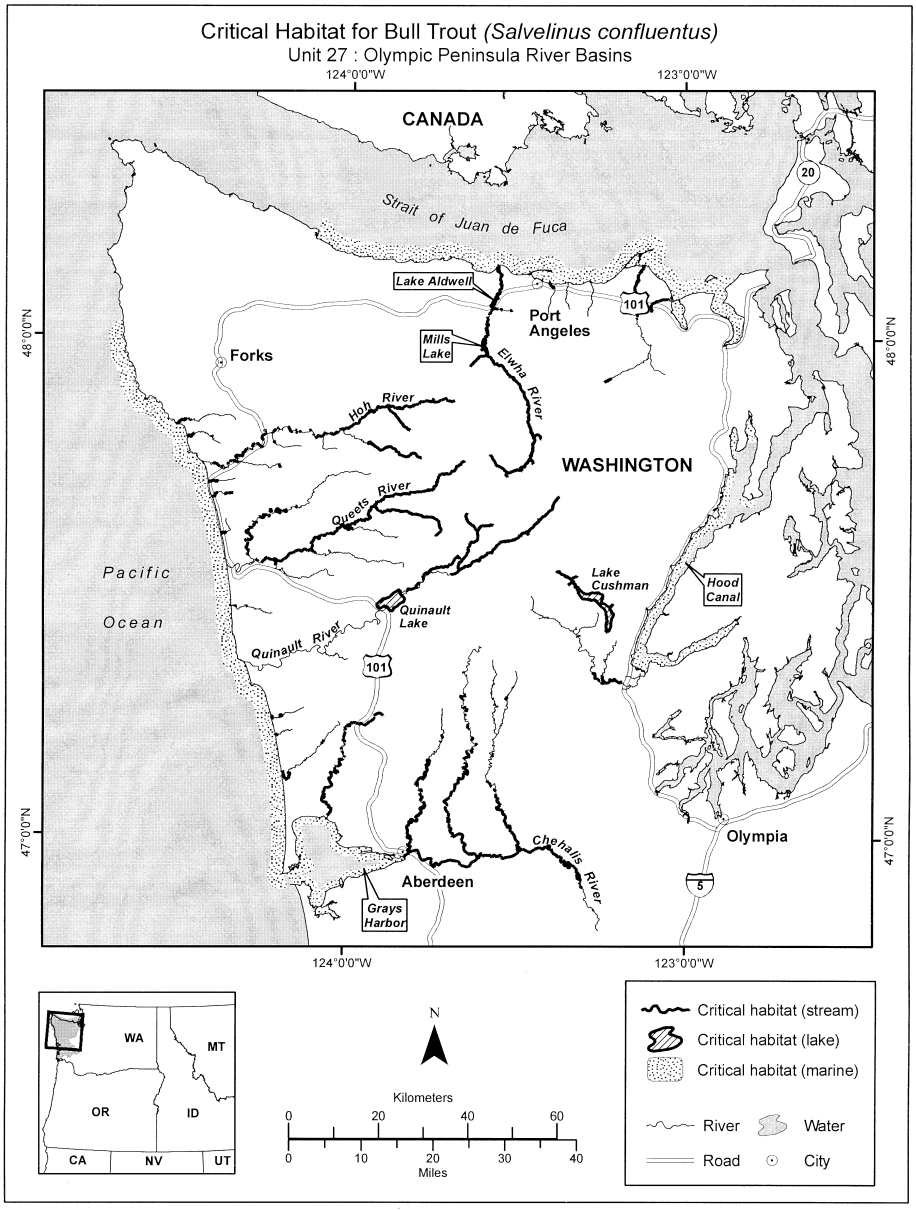


(24) Unit 27: Olympic Peninsula.

(i) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Bell Creek	48.083 N.	123.052 W.	48.057 N.	123.102 W.
Big Creek	47.518 N.	123.773 W.	47.566 N.	123.680 W.
Boulder Creek	47.982 N.	123.602 W.	47.979 N.	123.612 W.
Buckinghorse Creek	47.747 N.	123.481 W.	47.739 N.	123.484 W.
Canyon River	47.211 N.	123.551 W.	47.338 N.	123.498 W.
Cat Creek	47.971 N.	123.593 W.	47.946 N.	123.642 W.
Cedar Creek	47.712 N.	124.415 W.	47.717 N.	124.335 W.
Chehalis River	46.962 N.	123.823 W.	46.819 N.	123.252 W.
Clearwater River	47.546 N.	124.291 W.	47.730 N.	123.934 W.
Copalis River	47.133 N.	124.180 W.	47.234 N.	124.020 W.
Cougar Creek	47.862 N.	123.859 W.	47.868 N.	123.853 W.
Delabarre Creek	47.735 N.	123.526 W.	47.726 N.	123.527 W.
Dungeness River	48.151 N.	123.133 W.	47.942 N.	123.091 W.
Elk Creek	47.515 N.	123.330 W.	47.510 N.	123.344 W.
Elwha River	48.151 N.	123.558 W.	47.771 N.	123.580 W.
Ennis Creek	48.117 N.	123.404 W.	48.053 N.	123.410 W.
Godkin Creek	47.760 N.	123.464 W.	47.752 N.	123.451 W.
Goodman Creek	47.825 N.	124.512 W.	47.835 N.	124.338 W.
Gray Wolf River	47.977 N.	123.111 W.	47.916 N.	123.242 W.
Grays Harbor Marine	46.927 N.	124.179 W.	46.906 N.	124.138 W.
Griff Creek	48.013 N.	123.591 W.	48.023 N.	123.593 W.
Hayes River	47.808 N.	123.453 W.	47.803 N.	123.428 W.
Hoh Creek	47.877 N.	123.753 W.	47.883 N.	123.750 W.
Hoh River	47.751 N.	124.437 W.	47.878 N.	123.688 W.
Hood Canal Marine	47.685 N.	122.800 W.	47.434 N.	122.841 W.
Hughes Creek	48.025 N.	123.594 W.	48.026 N.	123.598 W.
Humptulips River	47.045 N.	124.048 W.	47.247 N.	123.888 W.
Hurd Creek	48.124 N.	123.142 W.	48.118 N.	123.142 W.
Ignar Creek	47.639 N.	123.432 W.	47.637 N.	123.429 W.
Irely Creek	47.565 N.	123.678 W.	47.567 N.	123.672 W.
Irely Lake	Located at		47.565 N.	123.672 W.
Joe Creek	47.206 N.	124.202 W.	47.217 N.	124.153 W.
Kalaloch Creek	47.607 N.	124.374 W.	47.637 N.	124.360 W.
Little River	48.063 N.	123.576 W.	48.033 N.	123.456 W.
Matheny Creek	47.576 N.	124.113 W.	47.543 N.	123.835 W.
Moclips River	47.248 N.	124.219 W.	47.260 N.	124.122 W.
Morse Creek	48.118 N.	123.350 W.	48.064 N.	123.346 W.
Mosquito Creek	47.799 N.	124.481 W.	47.787 N.	124.382 W.
Mount Tom Creek	47.868 N.	123.887 W.	47.819 N.	123.820 W.
Nolan Creek	47.752 N.	124.343 W.	47.743 N.	124.201 W.
North Fork Quinault River	47.540 N.	123.666 W.	47.654 N.	123.646 W.
North Fork Skokomish River (Lower)	47.315 N.	123.238 W.	47.398 N.	123.200 W.
North Fork Skokomish River (Upper)	47.419 N.	123.224 W.	47.539 N.	123.380 W.
OGS Creek	47.878 N.	123.770 W.	47.879 N.	123.767 W.
O'Neil Creek	47.616 N.	123.470 W.	47.610 N.	123.463 W.
Owl Creek	47.805 N.	124.078 W.	47.780 N.	124.037 W.
Pacific Coast Marine	48.003 N.	124.678 W.	46.927 N.	124.179 W.
Prescott Creek	47.903 N.	123.490 W.	47.904 N.	123.486 W.
Pyrites Creek	47.639 N.	123.432 W.	47.644 N.	123.435 W.
Queets River	47.544 N.	124.354 W.	47.758 N.	123.657 W.
Quinault Lake	Located at		47.471 N.	123.871 W.
Quinault River	47.349 N.	124.299 W.	47.687 N.	123.371 W.
Richert Spring	47.320 N.	123.218 W.	47.320 N.	123.224 W.
Rustler Creek	47.617 N.	123.615 W.	47.629 N.	123.568 W.
Salmon River	47.557 N.	124.219 W.	47.524 N.	124.040 W.
Sams River	47.625 N.	124.012 W.	47.604 N.	123.851 W.
Satsop River	46.979 N.	123.480 W.	47.035 N.	123.524 W.
Skokomish River	47.335 N.	123.116 W.	47.315 N.	123.238 W.
Slate Creek	47.521 N.	123.335 W.	47.529 N.	123.319 W.
Slough off of Elwha	48.145 N.	123.567 W.	48.138 N.	123.558 W.
South Fork Hoh River	47.820 N.	124.022 W.	47.764 N.	123.785 W.
South Fork Skokomish River	47.315 N.	123.238 W.	47.488 N.	123.454 W.
Steamboat Creek	47.679 N.	124.403 W.	47.688 N.	124.349 W.
Strait of Juan de Fuca Marine	48.103 N.	122.884 W.	48.217 N.	124.100 W.
Tshletshy Creek	47.666 N.	123.923 W.	47.606 N.	123.739 W.
West Fork Satsop River	47.035 N.	123.524 W.	47.360 N.	123.565 W.
Winfield Creek	47.810 N.	124.231 W.	47.783 N.	124.142 W.
Wishkah River	46.973 N.	123.806 W.	47.261 N.	123.713 W.
Wynoochee River	46.962 N.	123.606 W.	47.385 N.	123.604 W.

(ii) Map of Unit 27, Olympic Peninsula, follows:



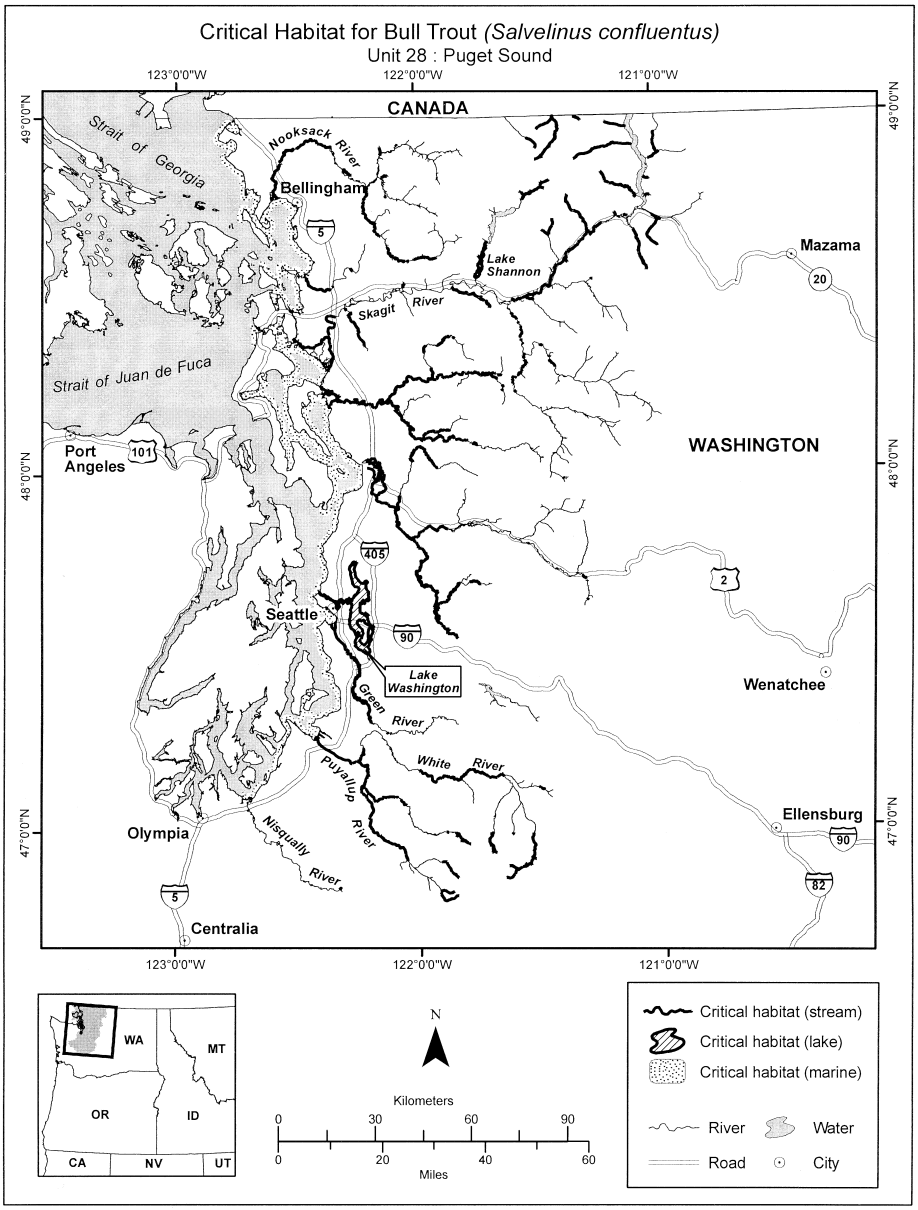
(25) Unit 28: Puget Sound.

(i) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Alma Creek	48.600 N.	121.361 W.	48.590 N.	121.355 W.
Bacon Creek	48.586 N.	121.394 W.	48.681 N.	121.462 W.
Baker River	48.534 N.	121.735 W.	48.821 N.	121.427 W.
Bald Eagle Creek	48.800 N.	121.464 W.	48.797 N.	121.448 W.
Bear Creek	48.965 N.	121.387 W.	48.966 N.	121.382 W.
Bear Lake Outlet (stream catalog #0317)	48.607 N.	121.911 W.	48.610 N.	121.911 W.
Big Beaver Creek	48.773 N.	121.045 W.	48.842 N.	121.210 W.
Boulder River	48.282 N.	121.786 W.	48.245 N.	121.827 W.
Brush Creek	48.913 N.	121.423 W.	48.909 N.	121.422 W.
Canyon Creek	48.098 N.	121.969 W.	48.158 N.	121.816 W.
Canyon Creek (Canyon Lake Creek)	48.832 N.	122.143 W.	48.840 N.	122.110 W.
Carbon River	47.130 N.	122.232 W.	46.964 N.	121.794 W.
Cascade River	48.524 N.	121.429 W.	48.463 N.	121.163 W.
Chenuis Creek	46.992 N.	121.842 W.	46.993 N.	121.841 W.
Chilliwack River	49.000 N.	121.410 W.	48.878 N.	121.486 W.
Clearwater River	47.146 N.	121.833 W.	47.079 N.	121.781 W.
Corkindale Creek	48.505 N.	121.485 W.	48.518 N.	121.482 W.
Crystal Creek	46.929 N.	121.537 W.	46.920 N.	121.525 W.
Crystal Creek	48.787 N.	121.501 W.	48.791 N.	121.509 W.
Dan Creek	48.298 N.	121.550 W.	48.265 N.	121.539 W.
Deer Creek	48.268 N.	121.931 W.	48.365 N.	121.793 W.
Deer Creek	48.715 N.	121.119 W.	48.721 N.	121.104 W.
Depot Creek	48.997 N.	121.323 W.	48.986 N.	121.292 W.
Devils Creek	48.825 N.	121.042 W.	48.819 N.	121.001 W.
Diobsud Creek	48.559 N.	121.411 W.	48.576 N.	121.432 W.
Duwamish River	47.586 N.	122.359 W.	47.474 N.	122.250 W.
East Duwamish Waterway	47.590 N.	122.343 W.	47.567 N.	122.346 W.
East Fork Bacon Creek	48.661 N.	121.433 W.	48.713 N.	121.416 W.
Eastern Shoreline Guemes Island	48.529 N.	122.572 W.	48.589 N.	122.645 W.
Eastern Shoreline Puget Sound (North)	48.511 N.	122.605 W.	49.000 N.	122.755 W.
Eastern Shoreline Puget Sound (South)	47.102 N.	122.727 W.	48.426 N.	122.674 W.
Eastern Shoreline Whidbey Island	47.905 N.	122.387 W.	48.370 N.	122.665 W.
Eastern Shoreline Lummi Island	48.641 N.	122.608 W.	48.717 N.	122.718 W.
Easy Creek	48.889 N.	121.457 W.	48.882 N.	121.455 W.
Ebey Slough	48.022 N.	122.147 W.	47.941 N.	122.169 W.
Finney Creek	48.524 N.	121.846 W.	48.465 N.	121.686 W.
Foss River	47.653 N.	121.293 W.	47.705 N.	121.305 W.
Fryingpan Creek	46.891 N.	121.601 W.	46.869 N.	121.649 W.
Gedney Island	00.000 N.	000.000 W.	48.013 N.	122.319 W.
Glacier Creek	47.987 N.	121.392 W.	47.987 N.	121.367 W.
Goat Island	00.000 N.	000.000 W.	48.363 N.	122.529 W.
Goodell Creek	48.672 N.	121.264 W.	48.778 N.	121.351 W.
Green River	47.474 N.	122.250 W.	47.299 N.	121.839 W.
Greenwater River	47.159 N.	121.659 W.	47.093 N.	121.457 W.
Hat Slough	48.197 N.	122.361 W.	48.209 N.	122.322 W.
Hope Island	00.000 N.	000.000 W.	48.399 N.	122.568 W.
Howard Creek	48.609 N.	121.965 W.	48.619 N.	121.965 W.
Huckleberry Creek	47.079 N.	121.585 W.	46.989 N.	121.622 W.
Hutchinson Creek	48.707 N.	122.178 W.	48.733 N.	122.102 W.
Ika Island	00.000 N.	000.000 W.	48.363 N.	122.501 W.
Illabot Creek	48.496 N.	121.530 W.	48.389 N.	121.318 W.
Indian Creek	48.947 N.	121.397 W.	48.935 N.	121.394 W.
Ipsut Creek	46.980 N.	121.832 W.	46.971 N.	121.831 W.
Jim Creek	48.185 N.	122.076 W.	48.216 N.	121.939 W.
Jones Creek	48.524 N.	122.052 W.	48.542 N.	122.050 W.
Kendall Creek	48.887 N.	122.148 W.	48.922 N.	122.144 W.
Klickitat Creek	46.909 N.	121.548 W.	46.903 N.	121.546 W.
Lake Union	Located at		47.651 N.	122.355 W.
Lake Washington	Located at		47.520 N.	122.236 W.
Lightning Creek	48.871 N.	121.027 W.	49.000 N.	120.978 W.
Little Beaver Creek	48.912 N.	121.064 W.	48.878 N.	121.322 W.
Little Chilliwack River	48.993 N.	121.407 W.	48.962 N.	121.477 W.
Lodi Creek	46.960 N.	121.705 W.	46.940 N.	121.687 W.
Maple Creek	48.912 N.	122.078 W.	48.927 N.	122.076 W.
Marble Creek	48.531 N.	121.281 W.	48.542 N.	121.251 W.
Middle Fork Nooksack River	48.834 N.	122.154 W.	48.725 N.	121.898 W.
Mowich River	46.901 N.	122.030 W.	46.915 N.	121.894 W.
Newhalem Creek	48.671 N.	121.254 W.	48.663 N.	121.251 W.

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Nisqually River	47.101 N.	122.691 W.	46.835 N.	122.323 W.
Nookachamps Creek	48.471 N.	122.296 W.	48.346 N.	122.202 W.
Nooksack River	48.771 N.	122.598 W.	48.834 N.	122.154 W.
North Fork Skagit River	48.364 N.	122.472 W.	48.387 N.	122.366 W.
North Fork Stillaguamish River	48.204 N.	122.126 W.	48.328 N.	121.639 W.
Panther Creek	48.708 N.	120.975 W.	48.631 N.	120.977 W.
Pass Creek	48.815 N.	121.462 W.	48.811 N.	121.457 W.
Peat Bog Creek (st. catalog # 0352)	48.790 N.	122.121 W.	48.780 N.	122.116 W.
Pierce Creek	48.774 N.	121.060 W.	48.766 N.	121.072 W.
Pilchuck River	47.904 N.	122.090 W.	47.995 N.	121.745 W.
Portage Island	00.000 N.	000.000 W.	48.701 N.	122.618 W.
Puyallup River	47.269 N.	122.425 W.	46.864 N.	121.949 W.
Ranger Creek	46.995 N.	121.853 W.	46.984 N.	121.854 W.
Rocky Creek	48.501 N.	121.494 W.	48.510 N.	121.501 W.
Roland Creek	48.762 N.	121.027 W.	48.770 N.	120.997 W.
Ruby Creek	48.737 N.	121.046 W.	48.707 N.	120.916 W.
Samish River	48.555 N.	122.456 W.	48.649 N.	122.207 W.
Sauk River	48.482 N.	121.604 W.	48.135 N.	121.422 W.
Silesia Creek	48.999 N.	121.612 W.	48.911 N.	121.484 W.
Silver Creek	48.972 N.	121.092 W.	48.981 N.	121.188 W.
Skagit River	48.387 N.	122.366 W.	49.000 N.	121.078 W.
Skookum Creek	48.671 N.	122.140 W.	48.686 N.	122.105 W.
Skykomish River	47.830 N.	122.045 W.	47.813 N.	121.578 W.
Smith Creek	48.856 N.	122.299 W.	48.841 N.	122.261 W.
Snohomish River	48.020 N.	122.208 W.	47.830 N.	122.045 W.
Snoqualmie River	47.830 N.	122.045 W.	47.541 N.	121.836 W.
South Fork Nooksack River	48.809 N.	122.202 W.	48.675 N.	121.940 W.
South Fork Skagit River	48.292 N.	122.367 W.	48.387 N.	122.366 W.
South Fork Skykomish River	47.813 N.	121.578 W.	47.705 N.	121.305 W.
South Fork Stillaguamish River	48.204 N.	122.126 W.	48.030 N.	121.482 W.
South Fork Tolt River	47.696 N.	121.820 W.	47.693 N.	121.692 W.
South Mowich River	46.915 N.	121.894 W.	46.871 N.	121.845 W.
South Pass	48.226 N.	122.385 W.	48.238 N.	122.377 W.
South Puyallup River	46.864 N.	121.949 W.	46.821 N.	121.846 W.
Southeastern Shoreline Vashon Island	47.331 N.	122.492 W.	47.349 N.	122.450 W.
Squire Creek	48.280 N.	121.684 W.	48.194 N.	121.637 W.
St. Andrews Creek	46.837 N.	121.920 W.	46.833 N.	121.864 W.
Steamboat Slough	48.033 N.	122.203 W.	47.984 N.	122.168 W.
Stetattle Creek	48.717 N.	121.148 W.	48.727 N.	121.154 W.
Stillaguamish River	48.238 N.	122.377 W.	48.204 N.	122.126 W.
Suiattle River	48.330 N.	121.548 W.	48.162 N.	121.005 W.
Sulphide Creek	48.777 N.	121.532 W.	48.789 N.	121.551 W.
Tenas Creek	48.324 N.	121.438 W.	48.335 N.	121.421 W.
Three Fools Creek	48.891 N.	120.973 W.	48.897 N.	120.847 W.
Thunder Creek	48.712 N.	121.105 W.	48.563 N.	121.026 W.
Tolt River	47.641 N.	121.926 W.	47.696 N.	121.820 W.
Union Slough	48.034 N.	122.190 W.	47.984 N.	122.166 W.
unnamed tributary (st. catalog #0217)	46.992 N.	121.704 W.	46.992 N.	121.714 W.
unnamed tributary (st. catalog #0226)	46.962 N.	121.710 W.	46.960 N.	121.717 W.
unnamed tributary (st. catalog #0234)	46.965 N.	121.712 W.	46.959 N.	121.711 W.
unnamed tributary (st. catalog #0364)	46.905 N.	121.559 W.	46.909 N.	121.573 W.
West Fork Foss River	47.653 N.	121.293 W.	47.627 N.	121.310 W.
West Fork White River	47.125 N.	121.618 W.	46.941 N.	121.707 W.
West Pass	48.250 N.	122.396 W.	48.238 N.	122.377 W.
White River	47.200 N.	122.257 W.	46.902 N.	121.636 W.

(ii) Map of Unit 28, Puget Sound, follows:

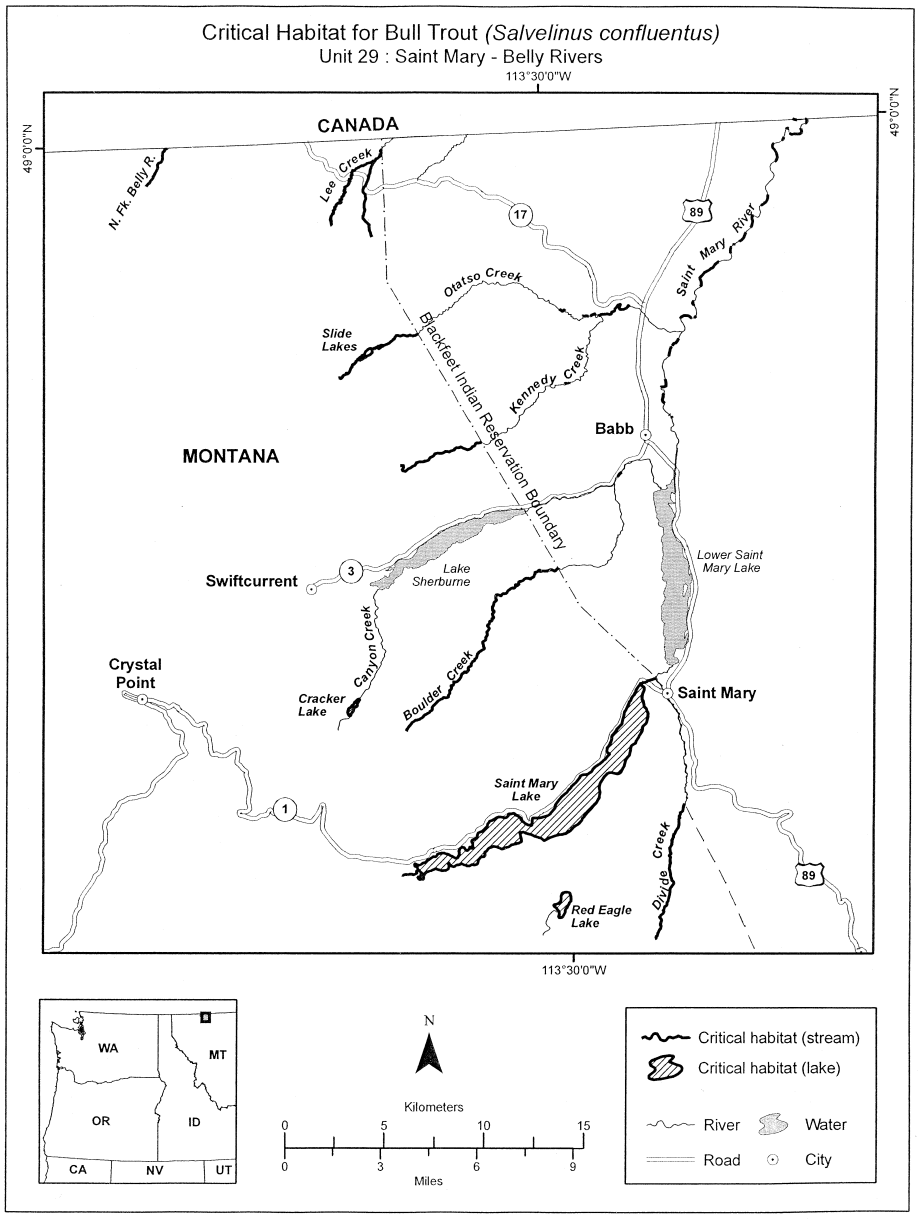


(26) Unit 29: Saint Mary-Belly.

(i) Critical habitat is designated on the water bodies listed in the following table:

Name	Stream endpoint latitude	Stream endpoint longitude	Stream endpoint latitude or lake center	Stream endpoint longitude or lake center
Boulder Creek	48.839 N.	113.459 W.	48.732 N.	113.608 W.
Cracker Lake	Located at		48.744 N.	113.643 W.
Divide Creek	48.751 N.	113.437 W.	48.634 N.	113.444 W.
Jule Creek	48.988 N.	113.613 W.	48.954 N.	113.617 W.
Kennedy Creek	48.905 N.	113.409 W.	48.851 N.	113.604 W.
Lee Creek	48.998 N.	113.600 W.	48.960 N.	113.644 W.
North Fork Belly River	48.998 N.	113.754 W.	48.981 N.	113.770 W.
Otatso Creek	48.915 N.	113.464 W.	48.892 N.	113.644 W.
Red Eagle Lake	Located at		48.651 N.	113.506 W.
Saint Mary Lake	Located at		48.685 N.	113.525 W.
Saint Mary River	48.998 N.	113.326 W.	48.668 N.	113.615 W.
Slide Lakes—lower pool	Located at		48.905 N.	113.615 W.
Slide Lakes—upper pool	Located at		48.901 N.	113.625 W.
Swiftcurrent Creek	48.836 N.	113.428 W.	48.828 N.	113.521 W.

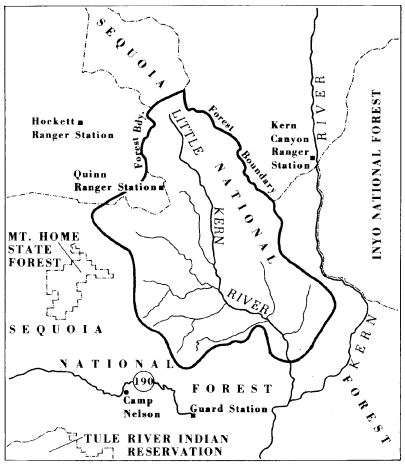
(ii) Map of Unit 29, Saint Mary-Belly, follows:



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:



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;

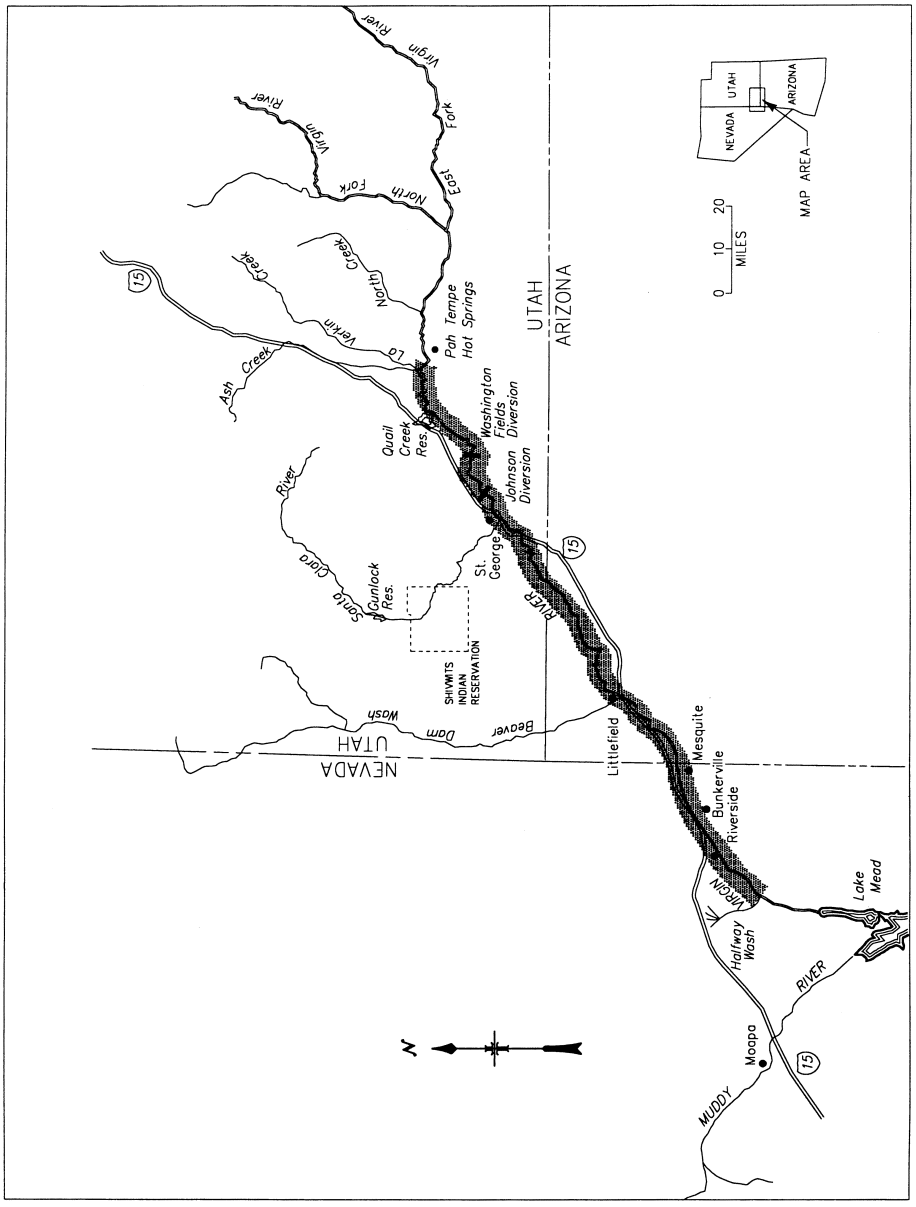
4. Areas inhabited by woundfin larvae include shoreline margins and backwater habitats associated with growths of filamentous algae.

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.

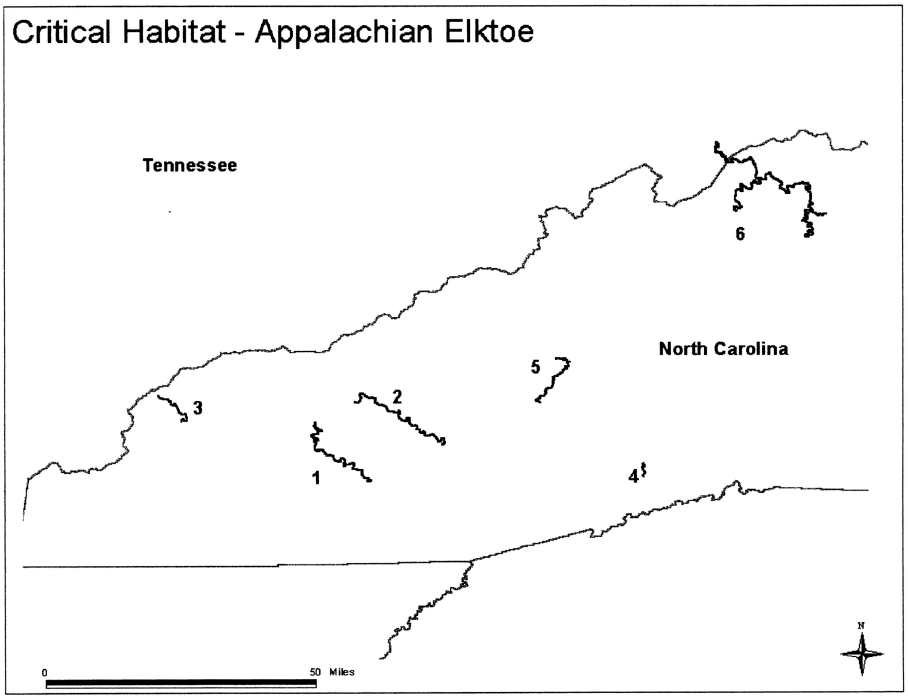


(f) *Clams and Snails.*

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:



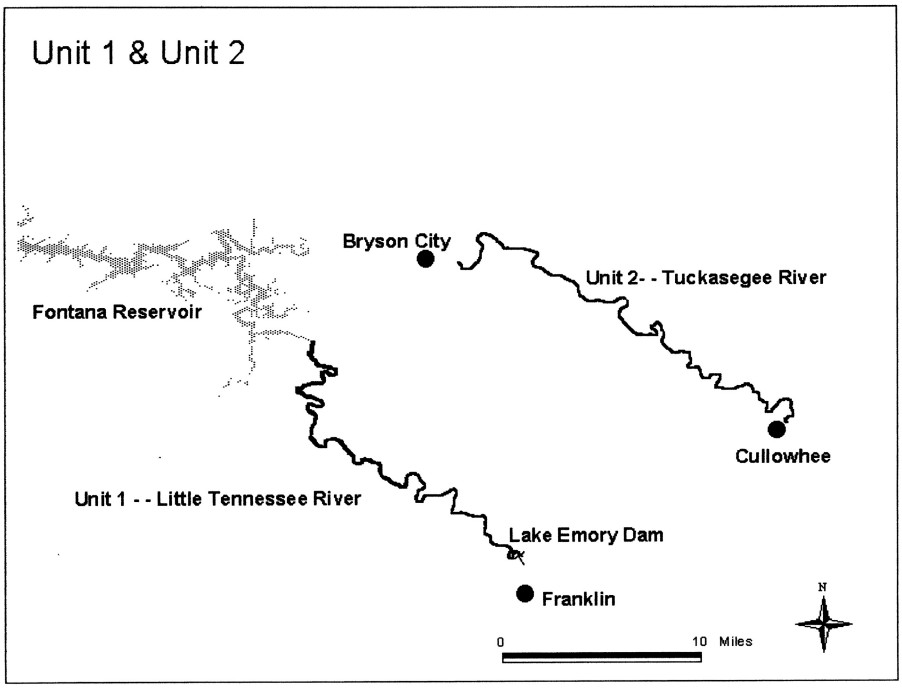
(2) Unit 1.

(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.

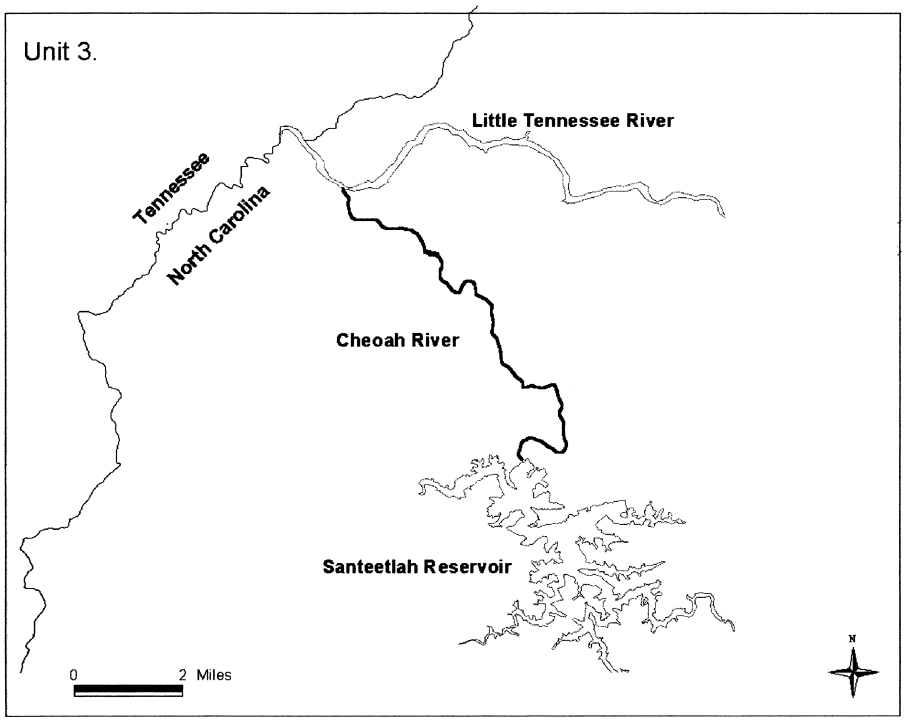
(ii) Map of Unit 1 and Unit 2 follows:



(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.

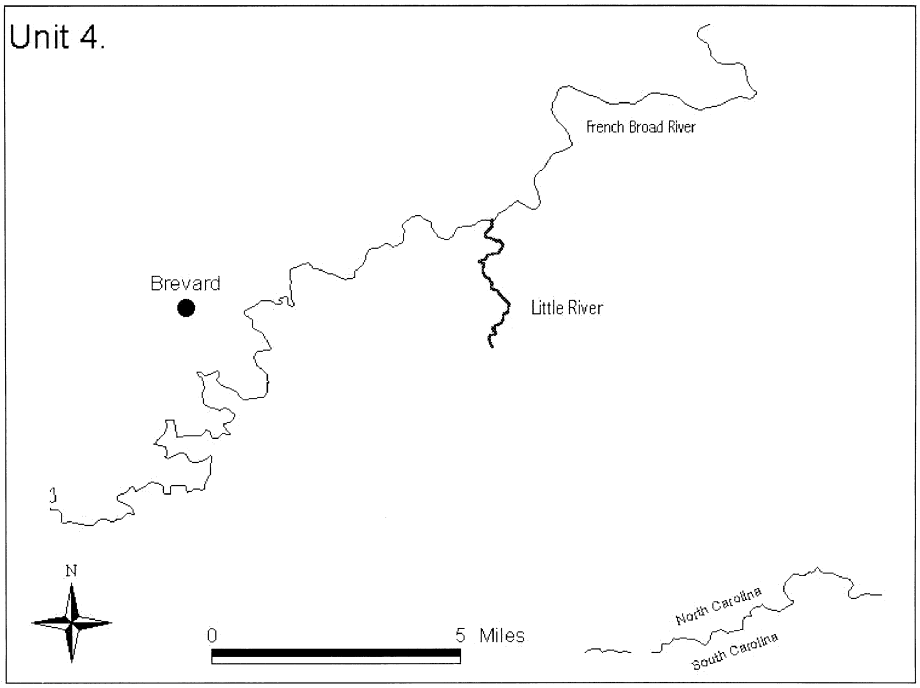
(ii) Map of Unit 3 follows:



(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.

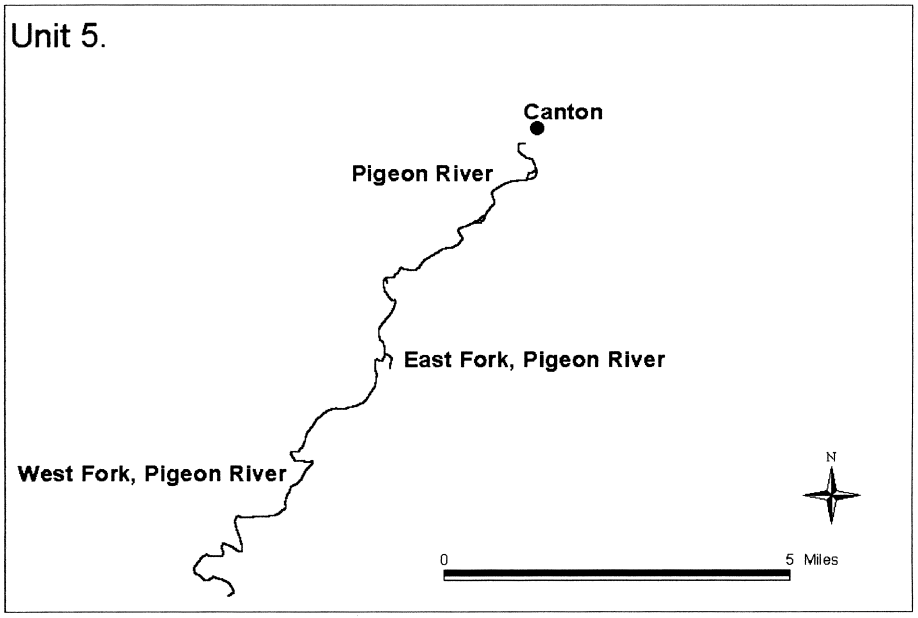
(ii) Map of Unit 4 follows:



(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.

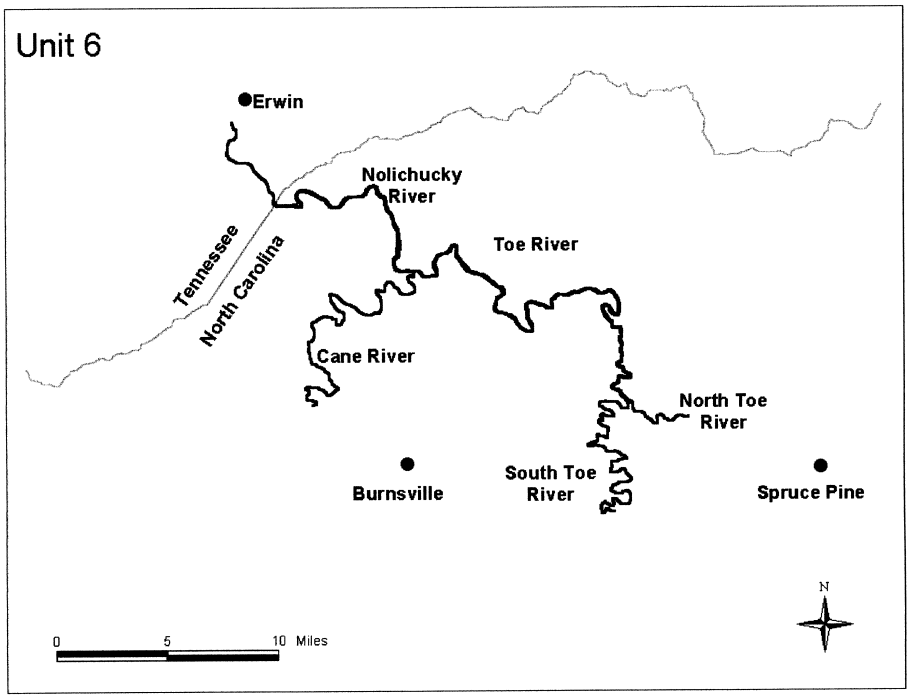
(ii) Map of Unit 5 follows:



(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:



(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*)

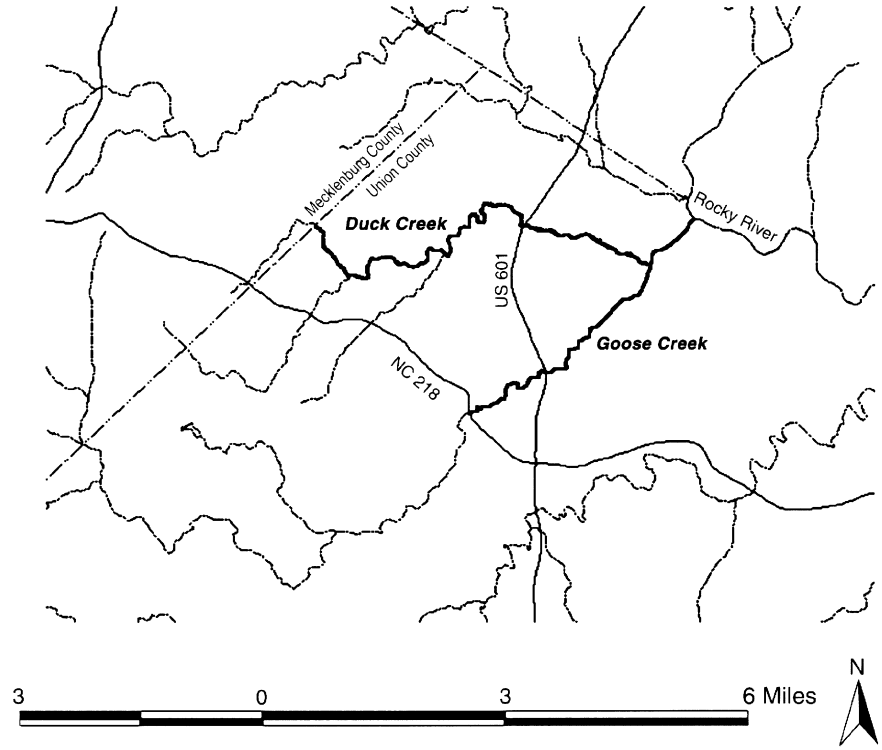
(1) Critical habitat units are described below and depicted in the maps that follow, with the lateral extent of each designated unit bounded by the ordinary high-water line.

(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.

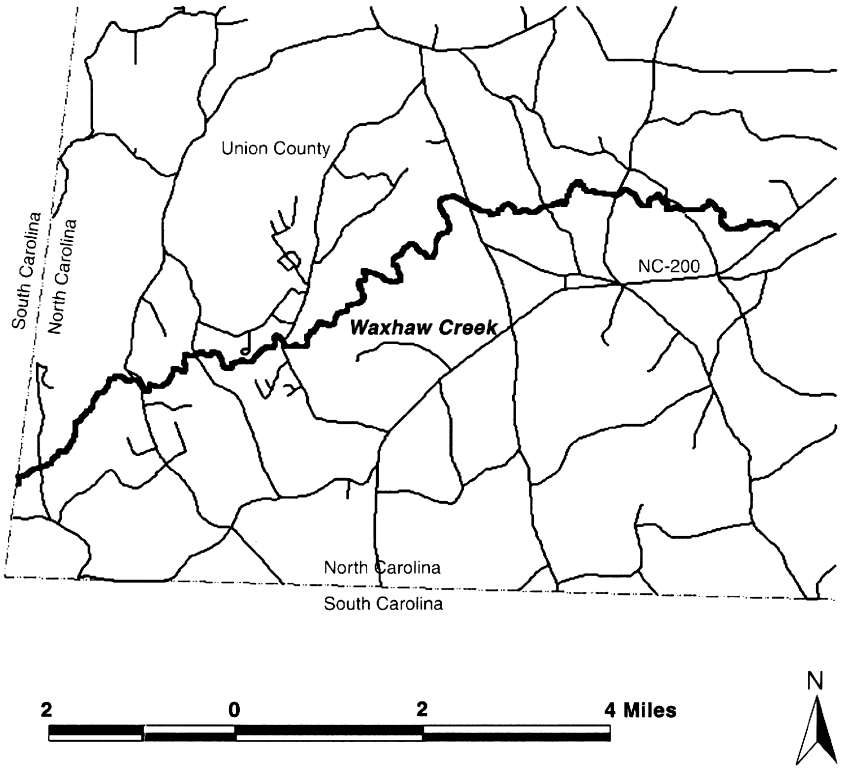


(3) Unit 2.

(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.

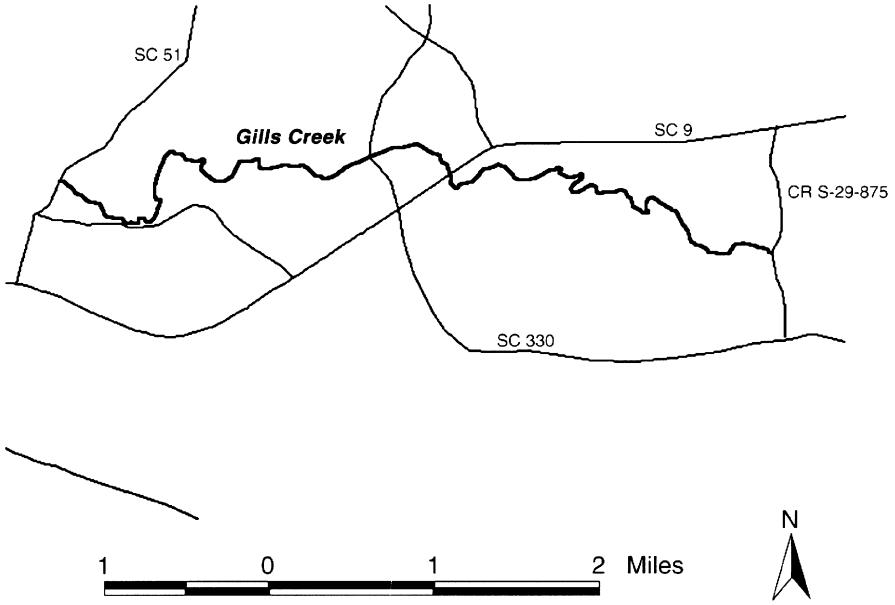


(4) Unit 3.

(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.

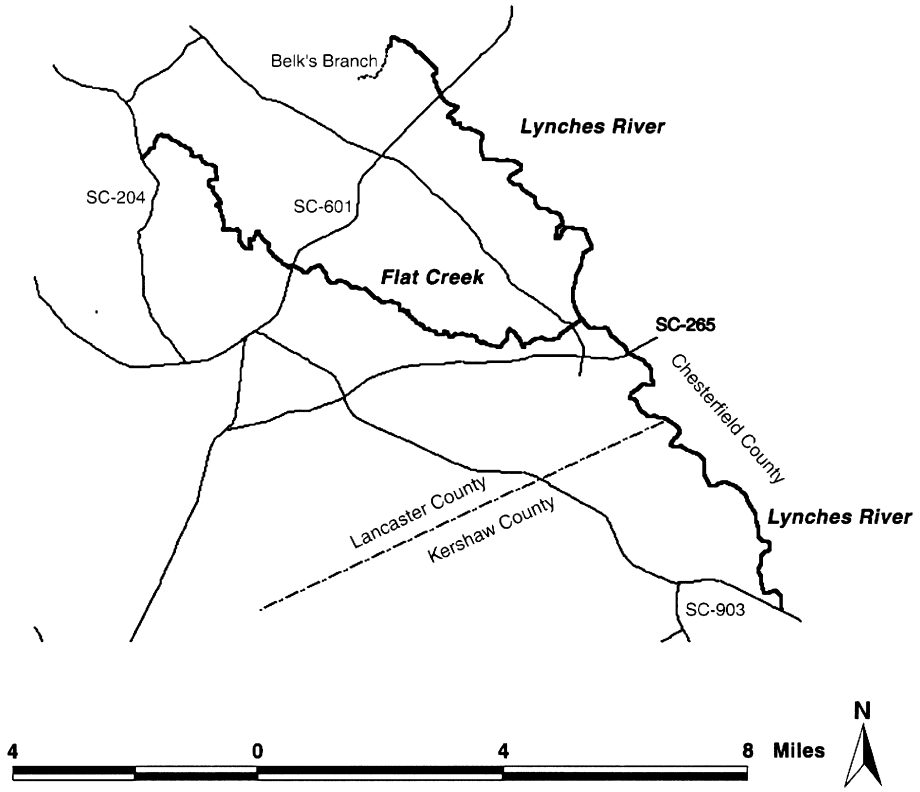


(5) Unit 4.

(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.

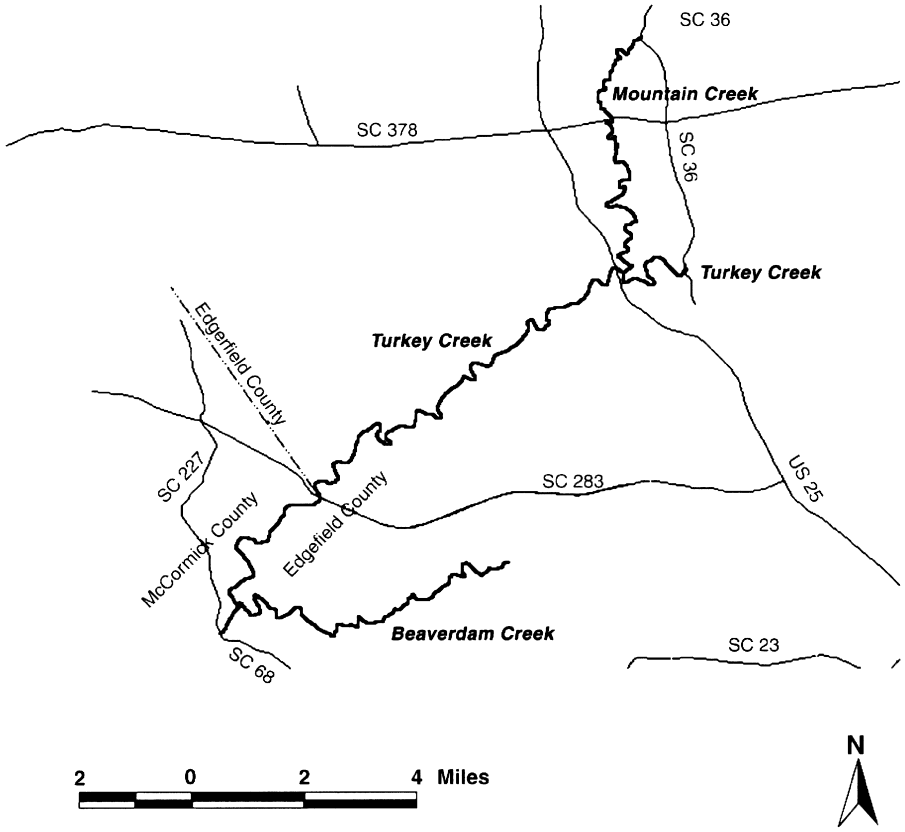


(6) Unit 5.

(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.

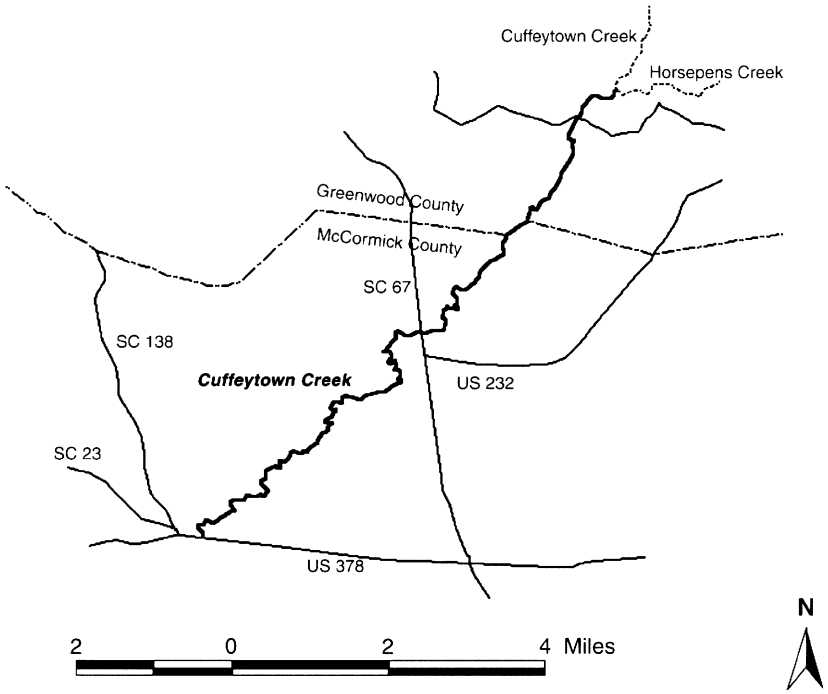


(7) Unit 6.

(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.



(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;

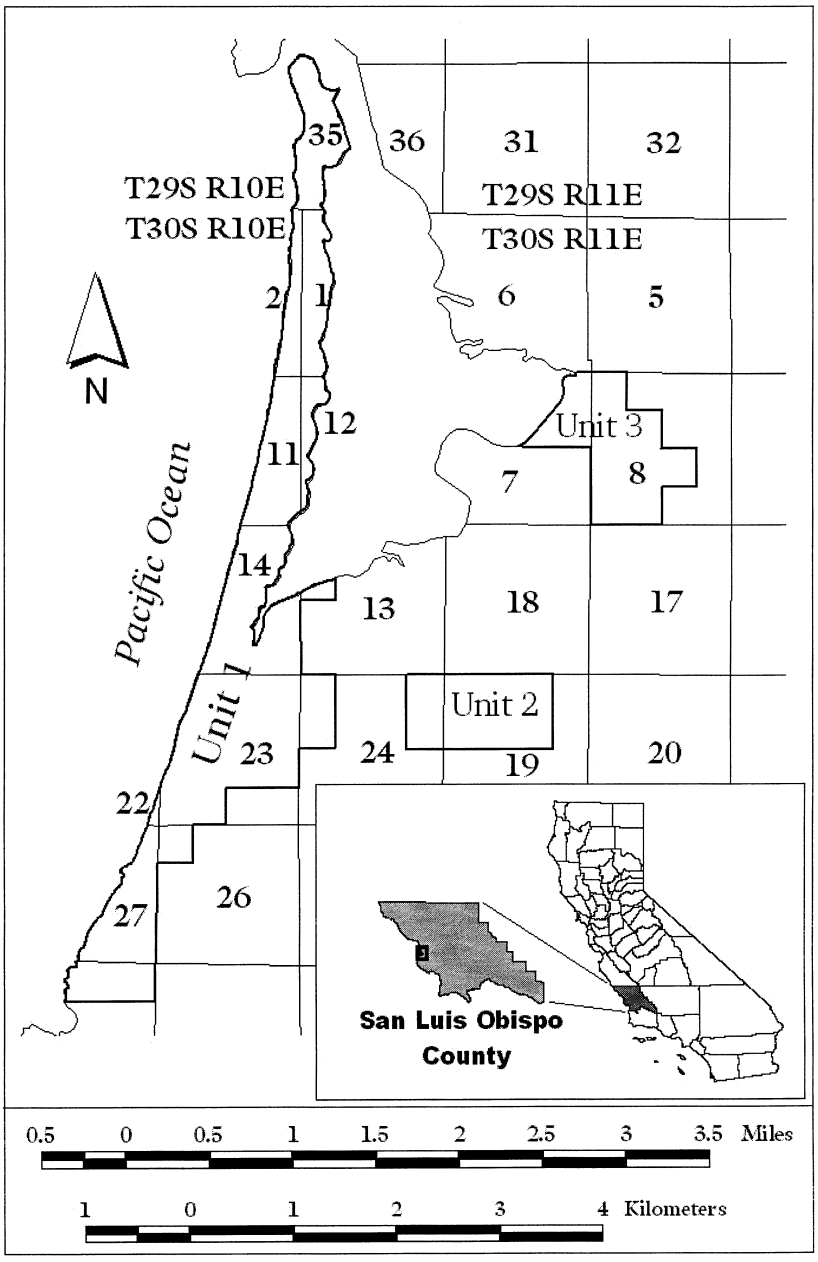
(v) Moderate stream gradient;

(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.



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, SW¼NW¼ section 13 above MSL, W½NW¼ section 24, all of section 23 above MSL except S½SE¼, NW¼NW¼ section 26, N½N½ section 34.

Map Unit 2: T. 30 S., R. 10 E., E½NE¼ section 24; T. 30 S., R, 11 E., E¾N½ section 19.

Map Unit 3: T. 30 S., R. 11 E., All of NE¼ section 7 above MSL; in section 8, NW¼NW¼, S½NW¼, SW¼, and NW¼SE¼.

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.

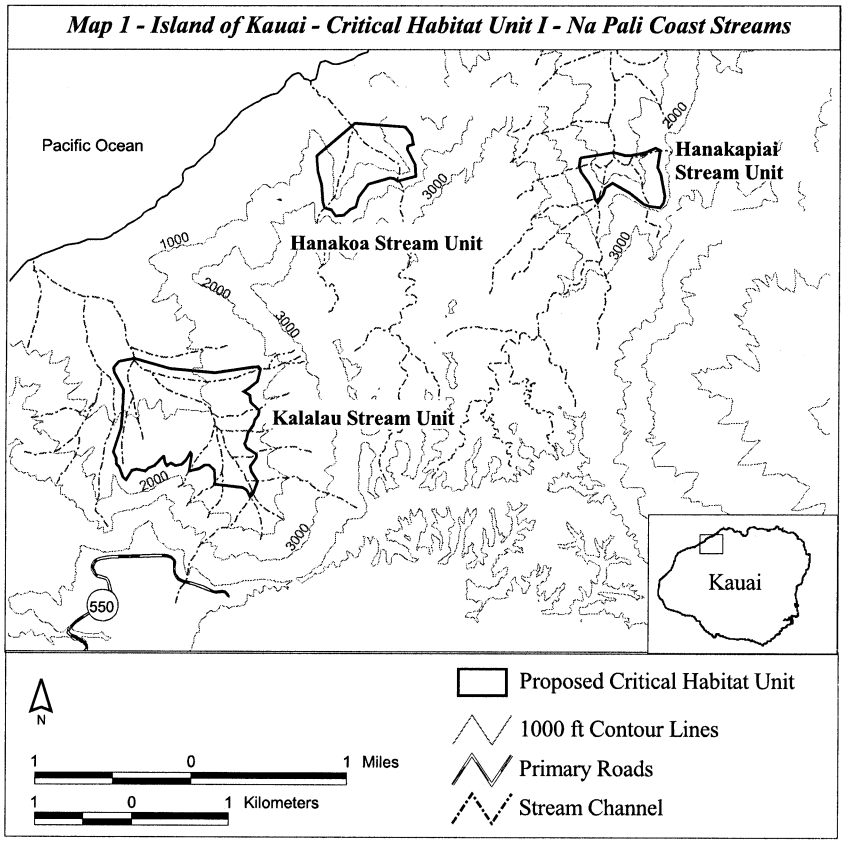
(3) Existing human-made features and structures within the boundaries of the mapped units, such as dams, ditches, tunnels, flumes, and other human-made features that do not contain the primary constituent elements, are not included as critical habitat.

(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:

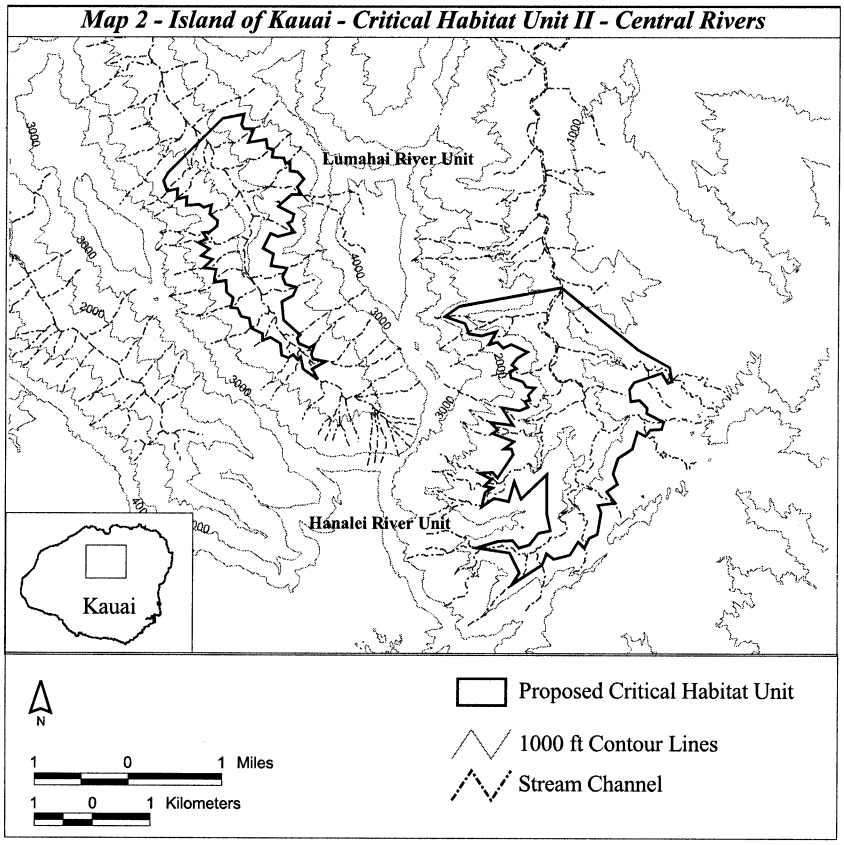


(5) Critical Habitat Unit II—Central Rivers—(i) Unit II(a): Lumahai River (492 ha; 1,216 ac). The Lumahai River Newcomb's snail critical habitat location consists of all flowing surface waters within 89 boundary points with the following coordinates in UTM Zone 4 with the units in meters using North 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:



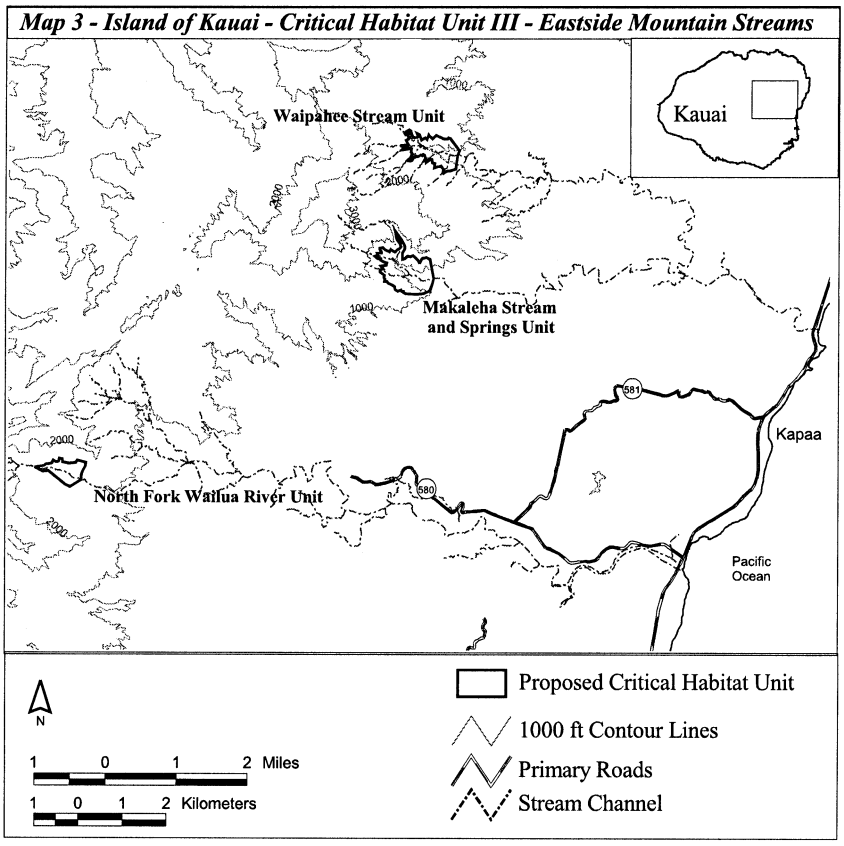
(6) Critical Habitat Unit III—Eastside Mountain Streams—(i) Unit III(a): Waipahee Stream (66 ha; 163 ac). The Waipahee Stream Newcomb's snail critical habitat location consists of all flowing surface waters within 78 boundary points with the following coordinates in UTM Zone 4 with the units in meters 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:



PECOS ASSIMINEA (*Assiminea pecos*)

1. Within the areas designated below as critical habitat, the primary constituent elements for Pecos assiminea include:

(i) Permanent, flowing, unpolluted, fresh to moderately saline water;

(ii) Moist or saturated soil at stream or spring run margins with native vegetation growing in or adapted to aquatic or very wet environment, such as salt grass or sedges; and

(iii) Stable water levels with natural diurnal and seasonal variation.

2. Critical habitat is depicted for the Pecos assiminea in Pecos County, Texas, at the Diamond Y Springs Complex. The designation includes the Diamond Y Spring, which is located at UTM 13– 698261 E, 3431372 N, and 6.8 km (4.2 mi) of its outflow, ending at UTM 13– 701832 E, 3436112 N, about 0.8 km (0.5 mi) downstream of the State Highway 18 bridge crossing. Also included is 0.8 km (0.5 mi) of Leon Creek upstream of the confluence with Diamond Y Draw. All surrounding riparian vegetation and mesic soil environments within the spring outflow and portion of Leon Creek are also designated as these areas are considered habitat for the Pecos assiminea. Critical habitat is also depicted for the Pecos assiminea in Reeves County, Texas, at the East Sandia Spring complex. East Sandia Spring is located at UTM 13– 621366 E, 342929 N. Critical habitat includes the springhead itself, surrounding seeps, and all submergent vegetation and moist soil habitat found at the margins of these areas. These areas are considered habitat for the Pecos assiminea.

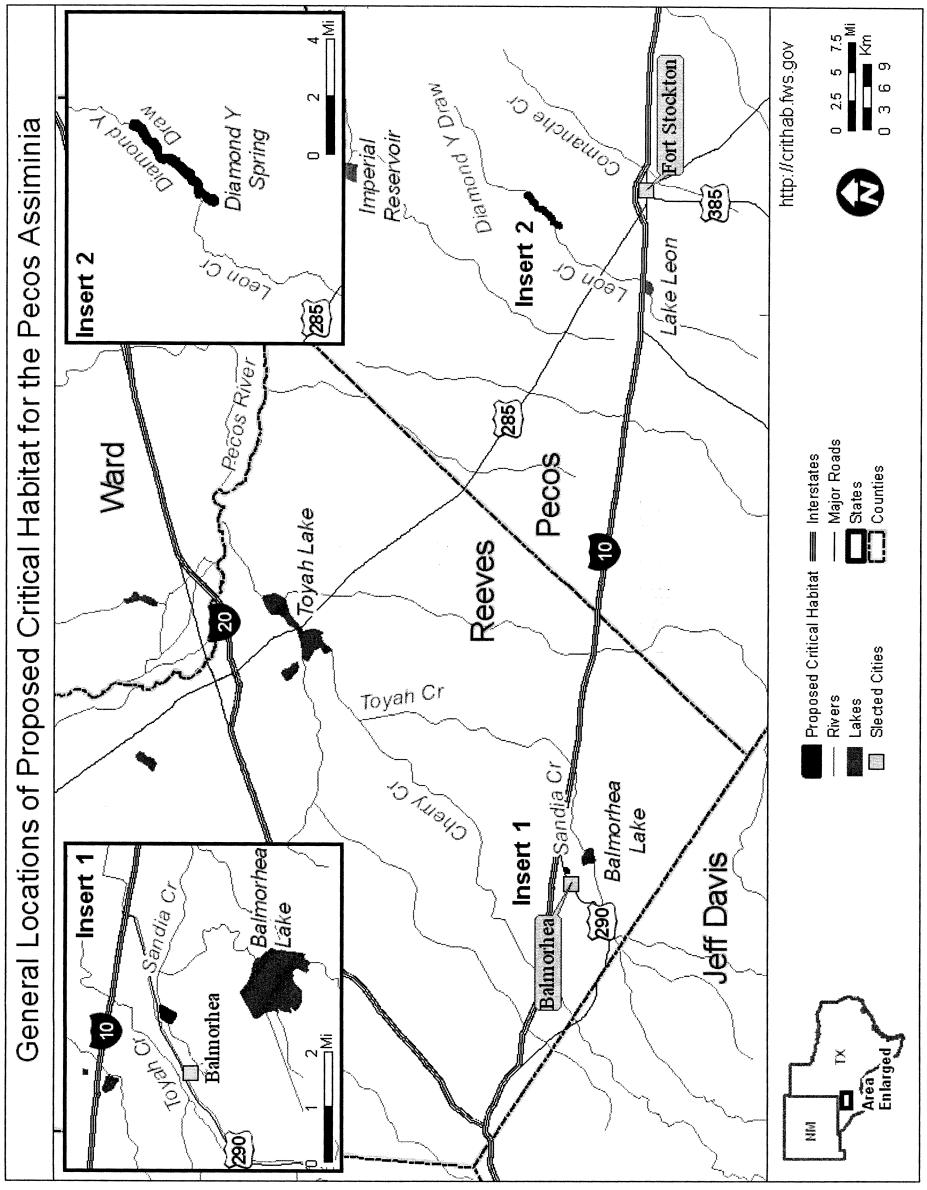
(i) Pecos County, Texas, including the Diamond Y Springs Complex, located at longitude –102.923461 and latitude 30.999271, and approximately 6.8 km (4.2 mi) of the spring outflow ending at about 0.8 km (0.5 mi) downstream of the State Highway 18 bridge crossing (approximately longitude –102.885137 and latitude 31.041405). Also included is approximately 0.8 km (0.5 mi) of Leon Creek

upstream of the confluence with Diamond Y Draw. All surrounding riparian vegetation and mesic soil environments within the spring, outflow, and portion of Leon Creek are also proposed for designation as these areas are considered habitat for the Pecos assiminea. Legal description (geographic projection, North American Datum 83): Longitude (decimal degrees), Latitude (decimal degrees):

−102.905319869746634, 31.022089444891570;
−102.887036917654868, 31.043947412173729;
−102.884194716234887, 31.042760908977833;
−102.885135806784476, 31.040116604685526;
−102.886447071974004, 31.038190792077721;
−102.886620885824385, 31.037813677269160;
−102.890251036381329, 31.035783323856453;
−102.892481680821120, 31.034679908957198;
−102.893548121939546, 31.033842414359302;
−102.893785401930572, 31.033086360646934;
−102.893745950415067, 31.032373282069056;
−102.894097678233564, 31.031429114358268;
−102.895544792411911, 31.030835296062797;
−102.896058768051944, 31.030036256911551;
−102.898010410716566, 31.029070675153459;
−102.898781252646117, 31.029130733495535;
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−102.900716178554276, 31.028924768711160;
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−102.915233503111892, 31.013201643466406;
−102.914004171668253, 31.013941704157816;
−102.912955733451284, 31.013972240169043;
−102.912389969275623, 31.014628028040637;
−102.912099833183859, 31.015288275173923;
−102.912212159226485, 31.015195101507882;
−102.910513768505638, 31.017209923999967;
−102.908484529126227, 31.019219357013320;
−102.906961764318297, 31.020762017382609;
−102.906510334381181, 31.021229648922475;
−102.906323124324715, 31.022224022537589;
−102.905476410341578, 31.023112694758801;
−102.904572468616138, 31.024095422710321;
−102.904098125726293, 31.025607579972412;
−102.904512146691772, 31.026849198511329;
−102.904475741511831, 31.028510959127807;
−102.903447935740203, 31.030109108839046;
−102.901831302956197, 31.030890242225727;
−102.900225068829968, 31.031196566903024;
−102.897834397853146, 31.032060033587637;
−102.896823149655987, 31.032898465556570;
−102.895449713462554, 31.035155846795476;
−102.894484140543042, 31.036422464608236;
−102.892135869908444, 31.037856459486278;
−102.890355694384951, 31.038539777638526;
−102.889015567482971, 31.039277771567470;
−102.888427464446750, 31.040930483816535;
−102.887036917654868, 31.043947412173729.

(ii) Reeves County, Texas, at the East Sandia Spring complex. East Sandia Spring is located at longitude –103.728918, latitude 30.991012. The designation includes the springhead itself, surrounding seeps, and all submergent vegetation and moist soil habitat found at the margins of these areas. These areas are considered habitat for the Pecos assiminea. Legal description (geographic projection, North American Datum 83): Longitude (decimal degrees), Latitude (decimal degrees): –103.729296238487009, 30.990656960487129; –103.731179077171333, 30.989695620405591; –103.730160658036496, 30.991850361242875; –103.727182653076312, 30.992477028891606; –103.729159475230986, 30.988608062418542; –103.731179077171333, 30.989695620405591.

3. A map of the Diamond Y Springs Complex and East Sandia Spring Complex follows:


General Locations of Proposed Critical Habitat for the Pecos Assiminia
Ward
Reeves
Pecos
Jeff Davis
Insert 1
Insert 2
Pecos River
Toyah Lake
Toyah Cr
Toyah Cr
Sandia Cr
Balmorhea
Balmorhea Lake
Chemy Cr
Diamond Y Draw
Diamond Y Spring
Imperial Reservoir
Leon Cr
Comanche Cr
Lake Leon
Fort Stockton
http://crithab.fws.gov
Proposed Critical Habitat
Rivers
Lakes
Slected Cities
Interstates
Major Roads
States
Counties
NM
TX
Area Enlarged

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;

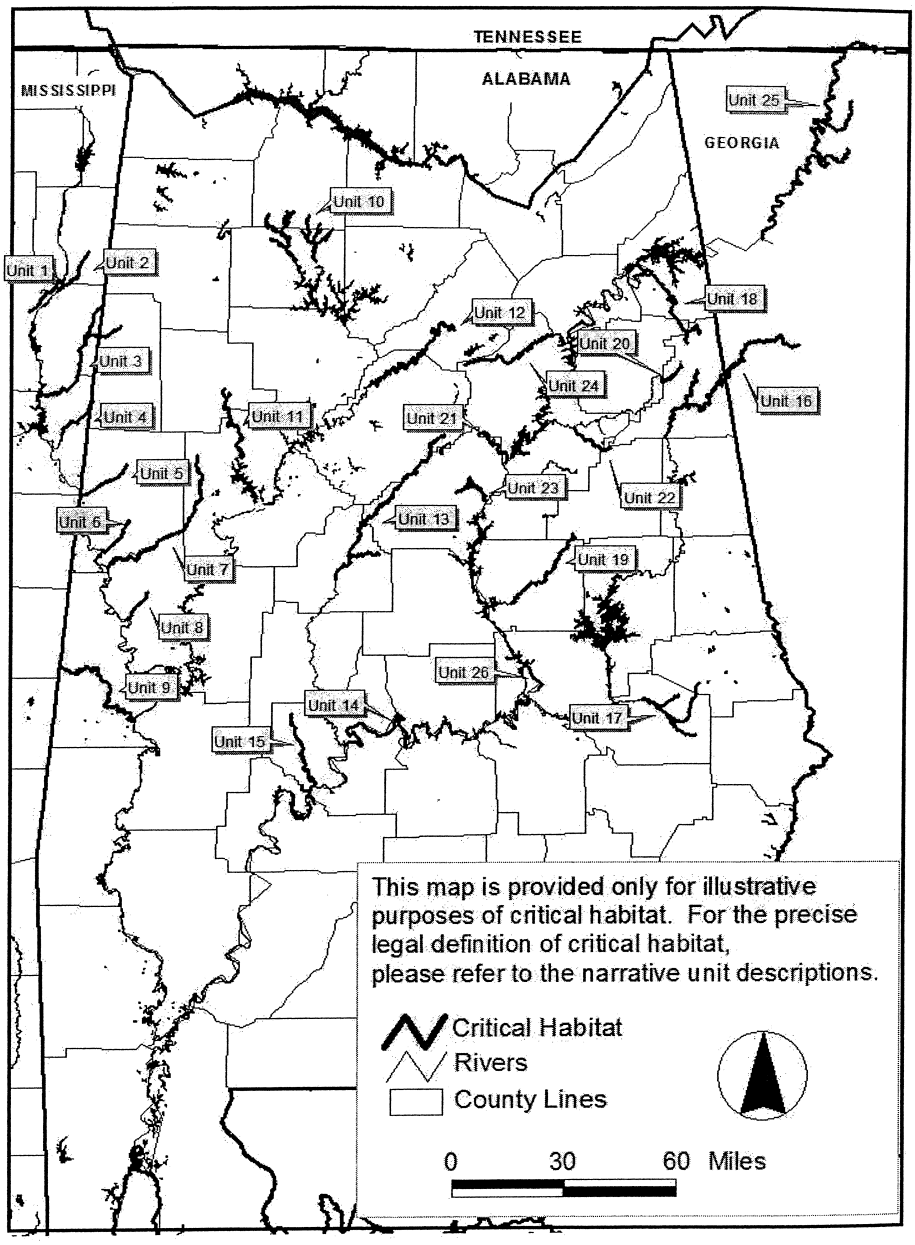
(iv) Sand, gravel, and/or cobble substrates with low to moderate amounts of fine sediment, low amounts of attached filamentous algae, and other physical and chemical characteristics necessary for normal behavior, growth, and viability of all life stages;

(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

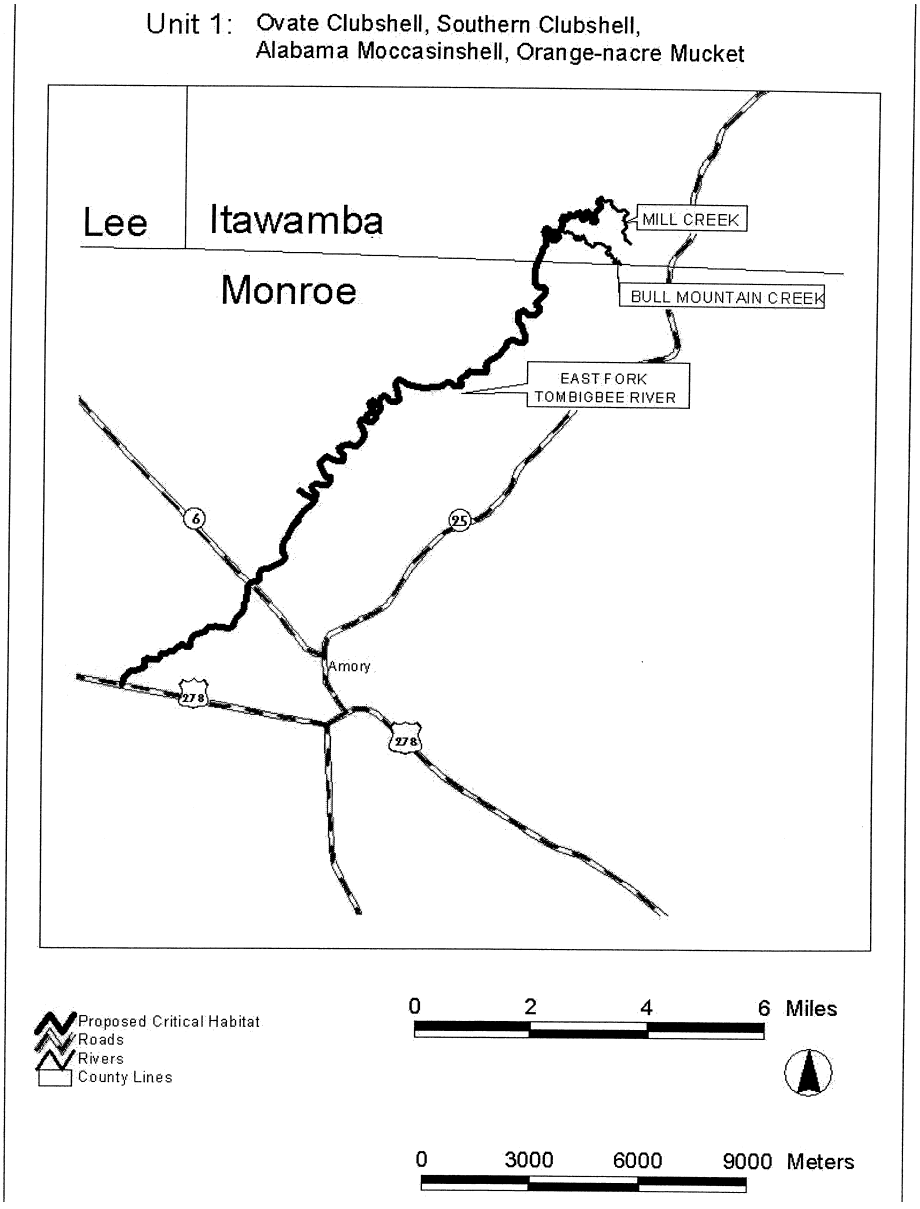
(ii) *Protected species and critical habitat units.* A table listing the protected species, their respective critical habitat units, and the States that contain those habitat units follows. Detailed critical habitat unit descriptions and maps appear below the table.

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, 17, 18, 19, 21, 24, 25, 26.	AL, GA, MS, TN
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.

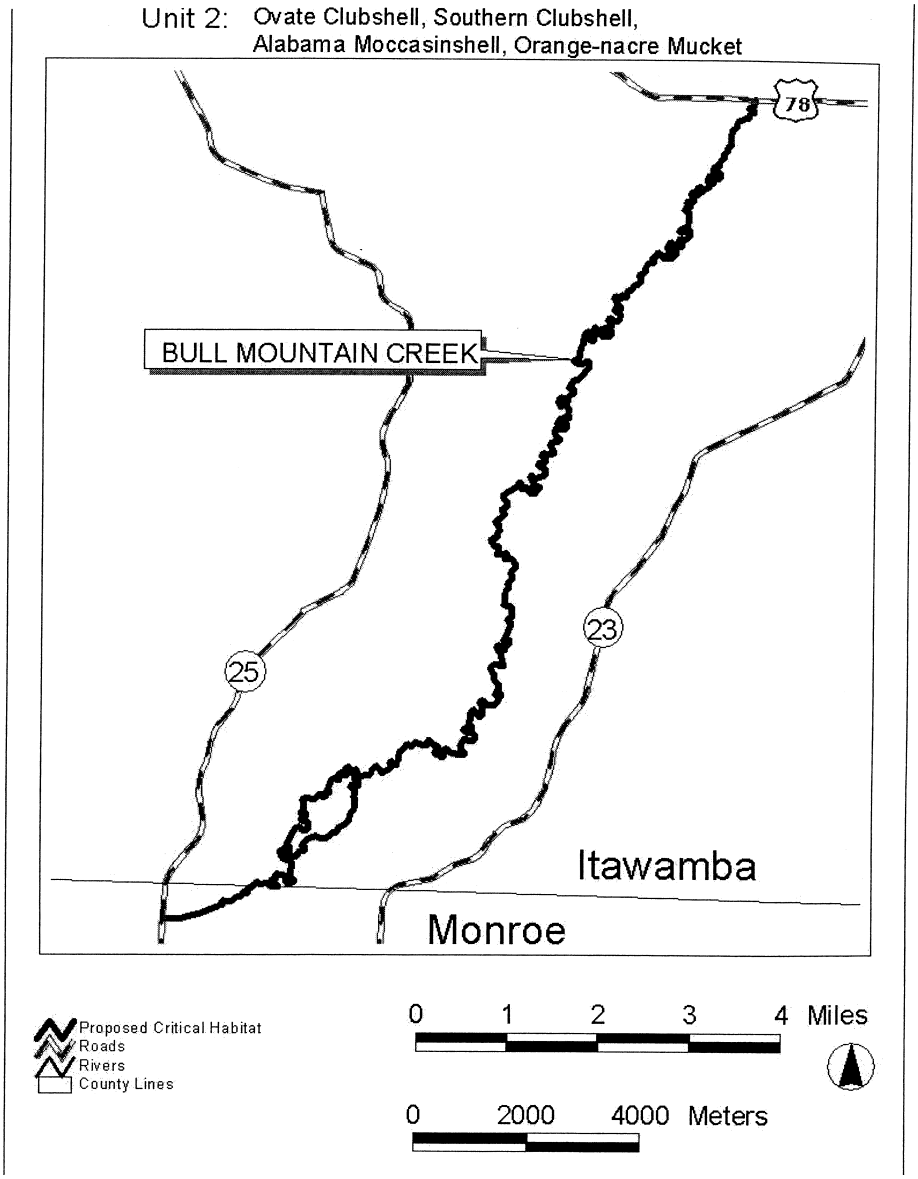
(B) Map of Unit 1 follows:



(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:

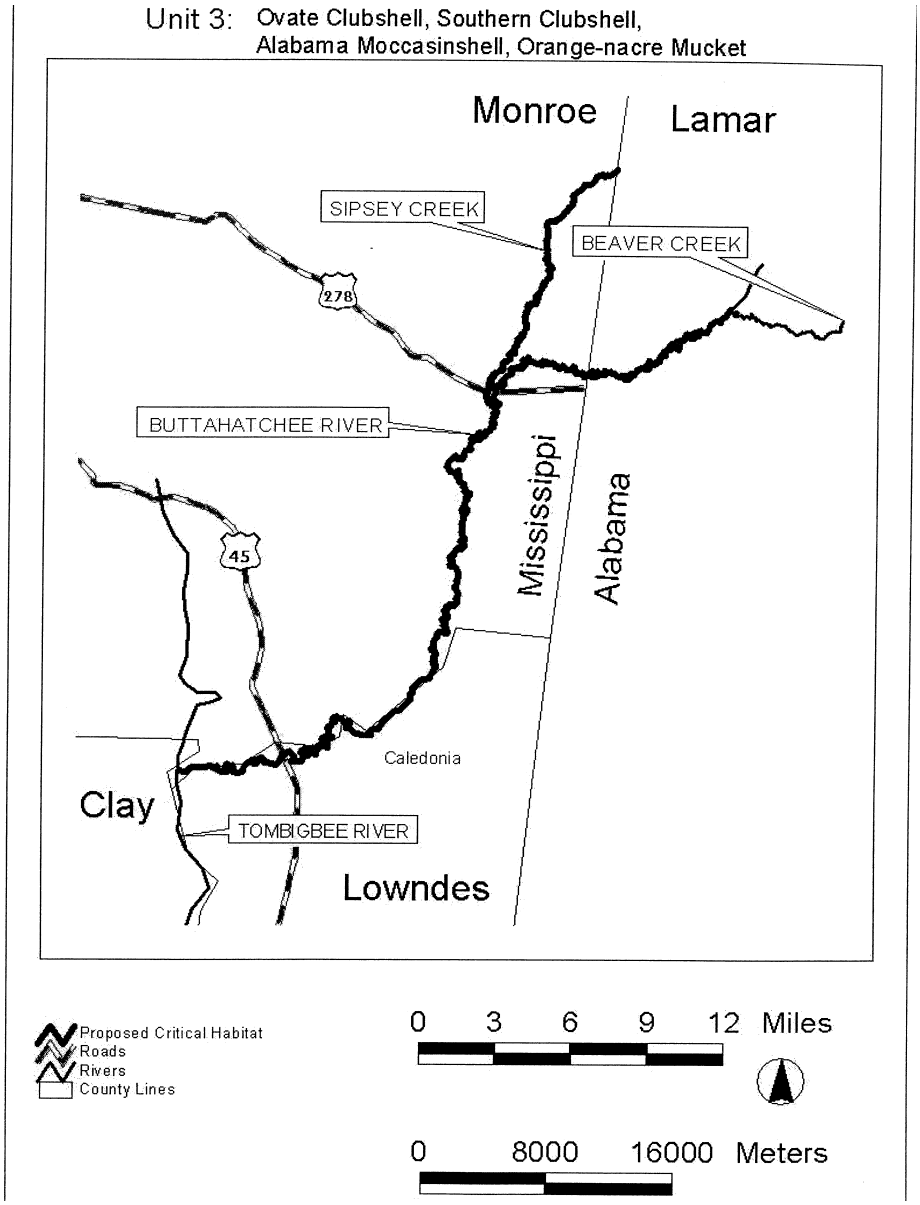


(v) Unit 3. Buttahatchee River and Sipsey Creek, Lowndes/Monroe County, Mississippi; Lamar County, Alabama. This is a critical habitat unit for the ovate clubshell, southern clubshell, Alabama moccasinshell, and orange-nacre mucket.

(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:

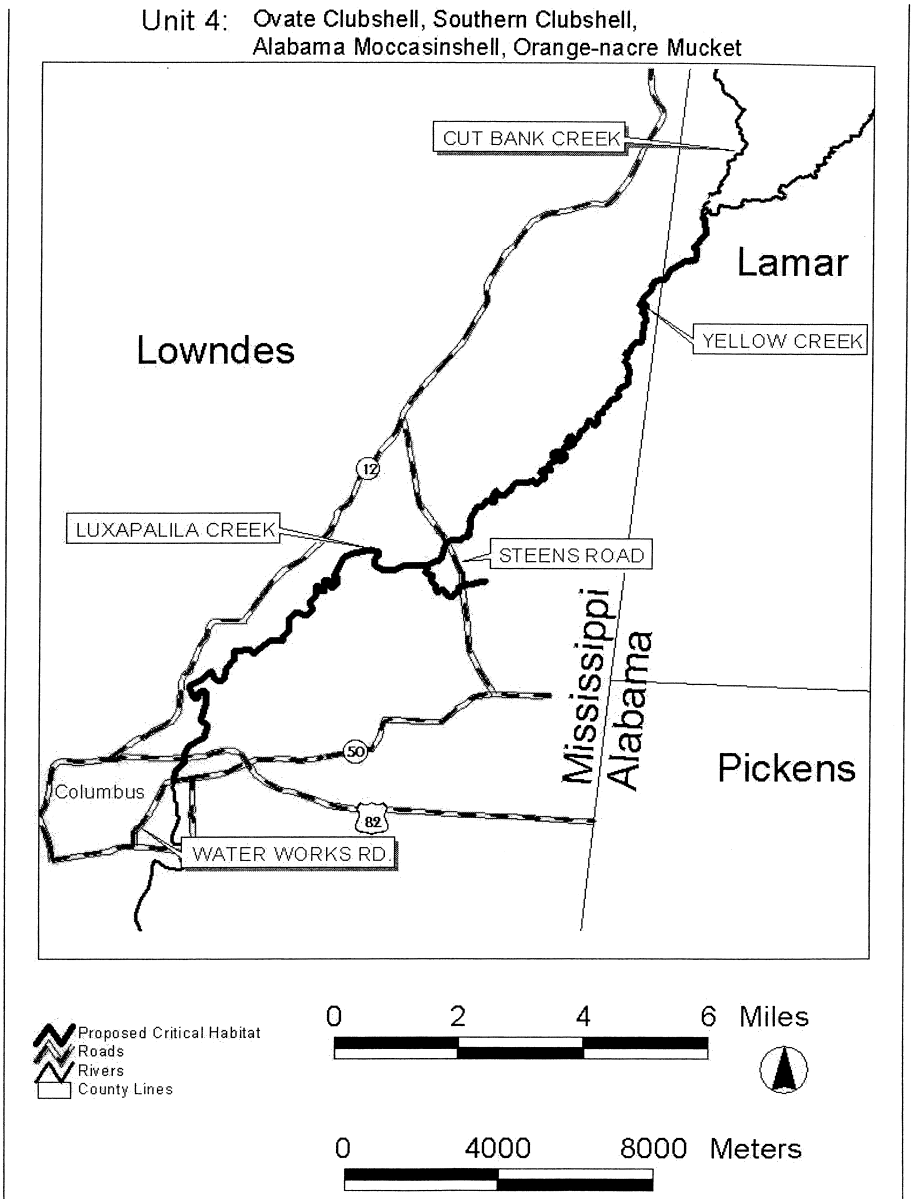


(vi) Unit 4. Luxapalila Creek and Yellow Creek, Lowndes County, Mississippi; Lamar County, Alabama. This is a critical habitat unit for the ovate clubshell, southern

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.

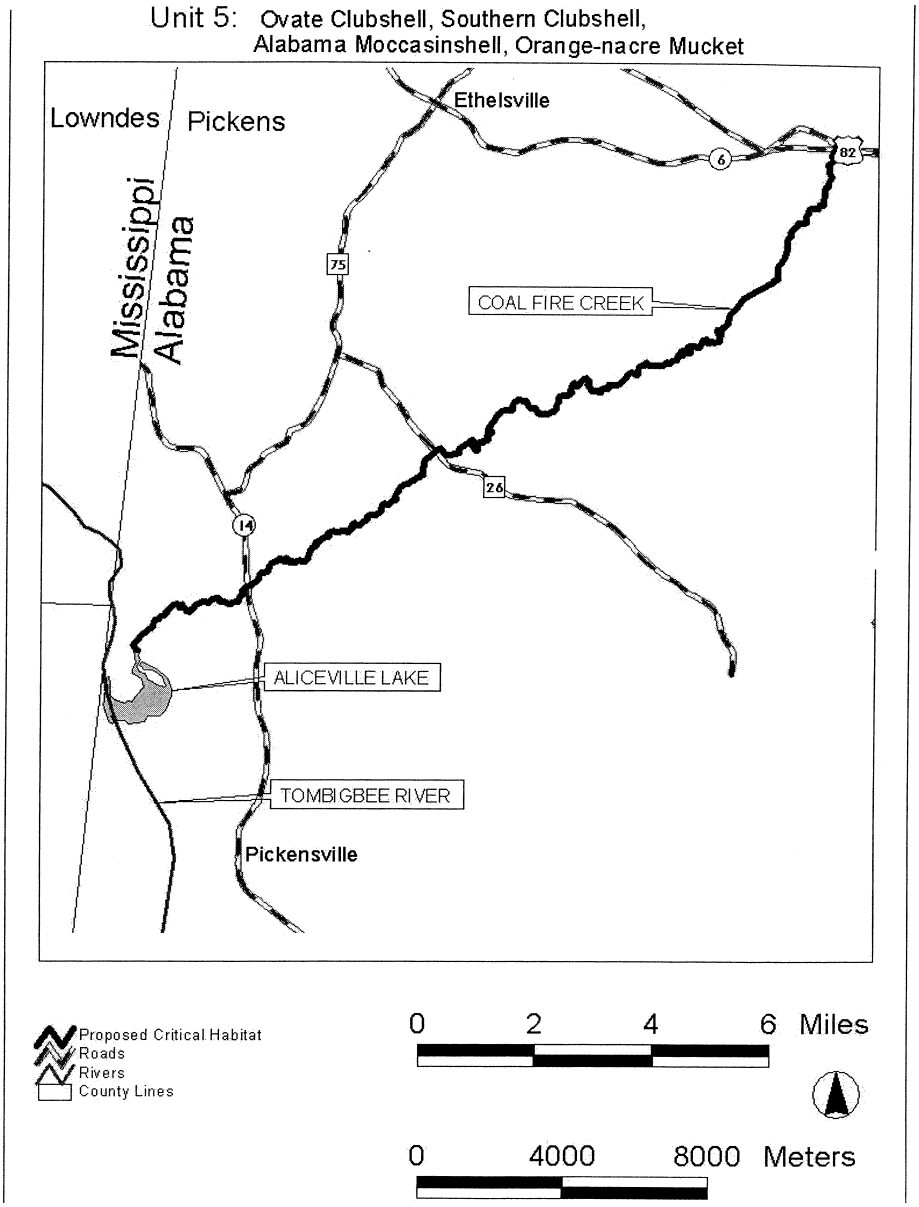
(B) Map of Unit 4 follows:



(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.

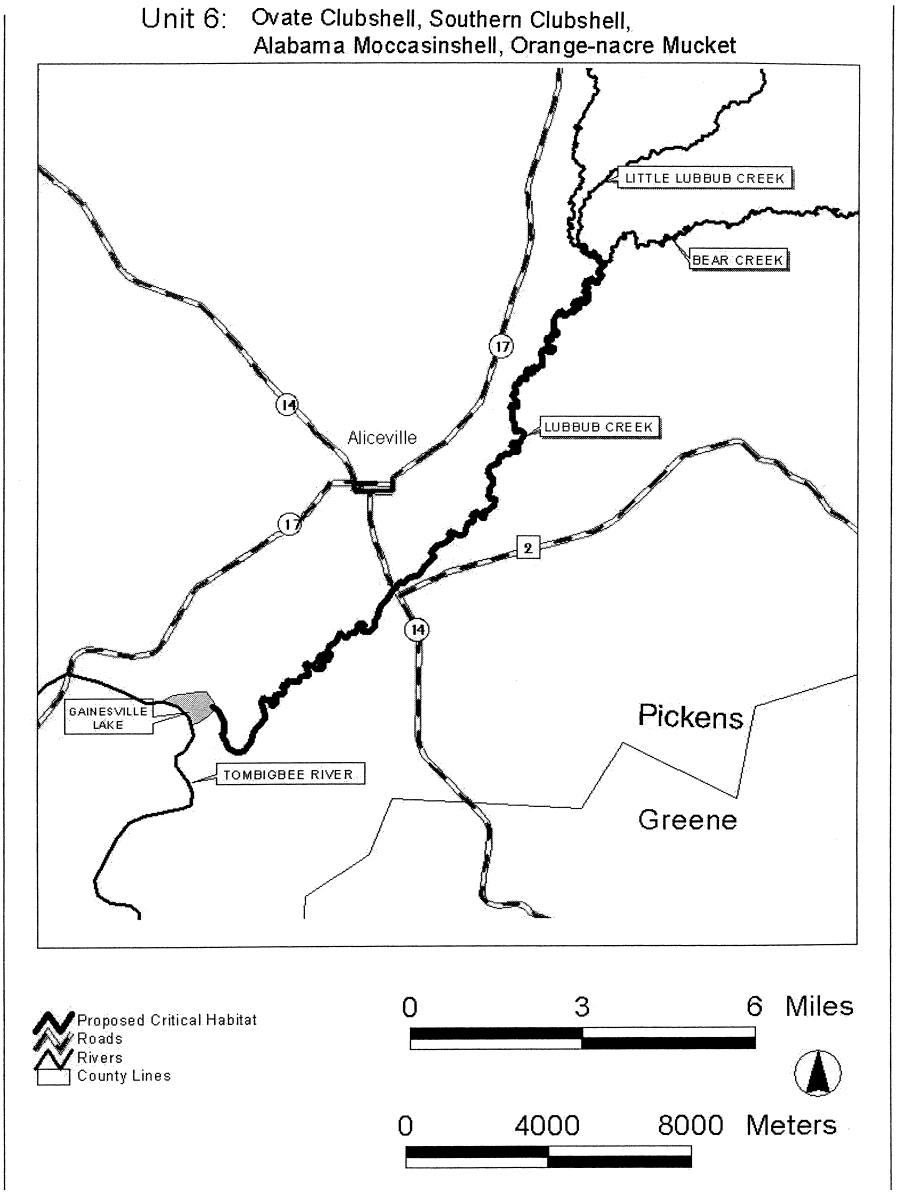
(B) Map of Unit 5 follows:



(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.

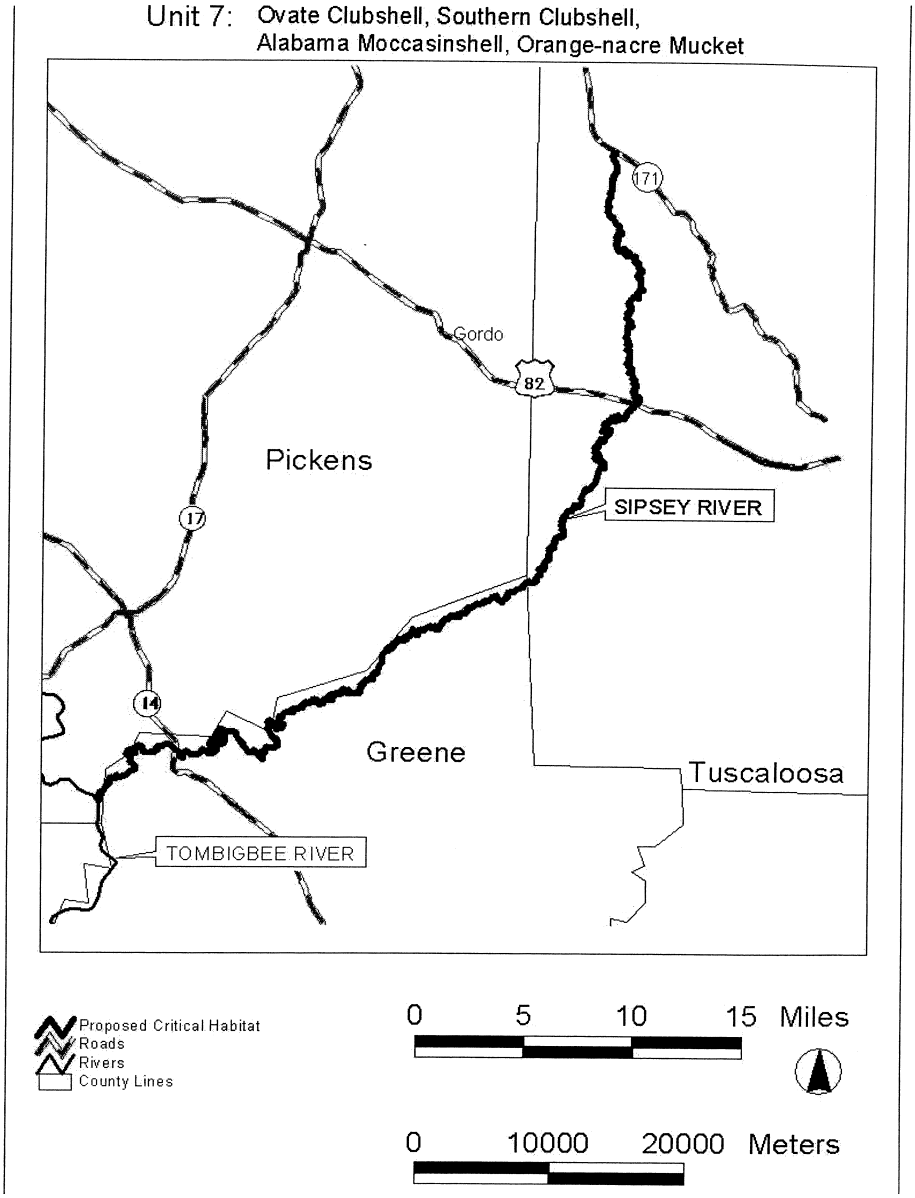
(B) Map of Unit 6 follows:



(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.

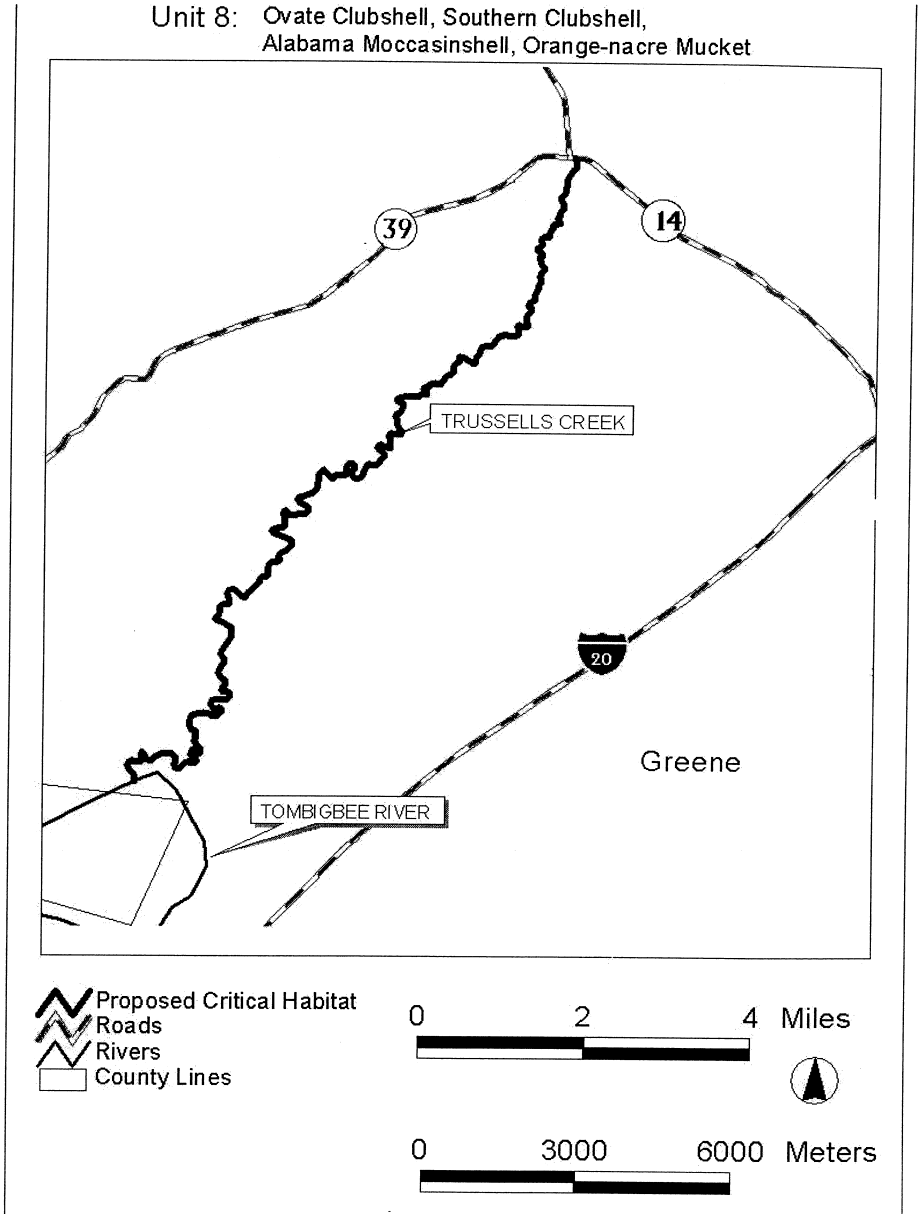
(B) Map of Unit 7 follows:



(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.

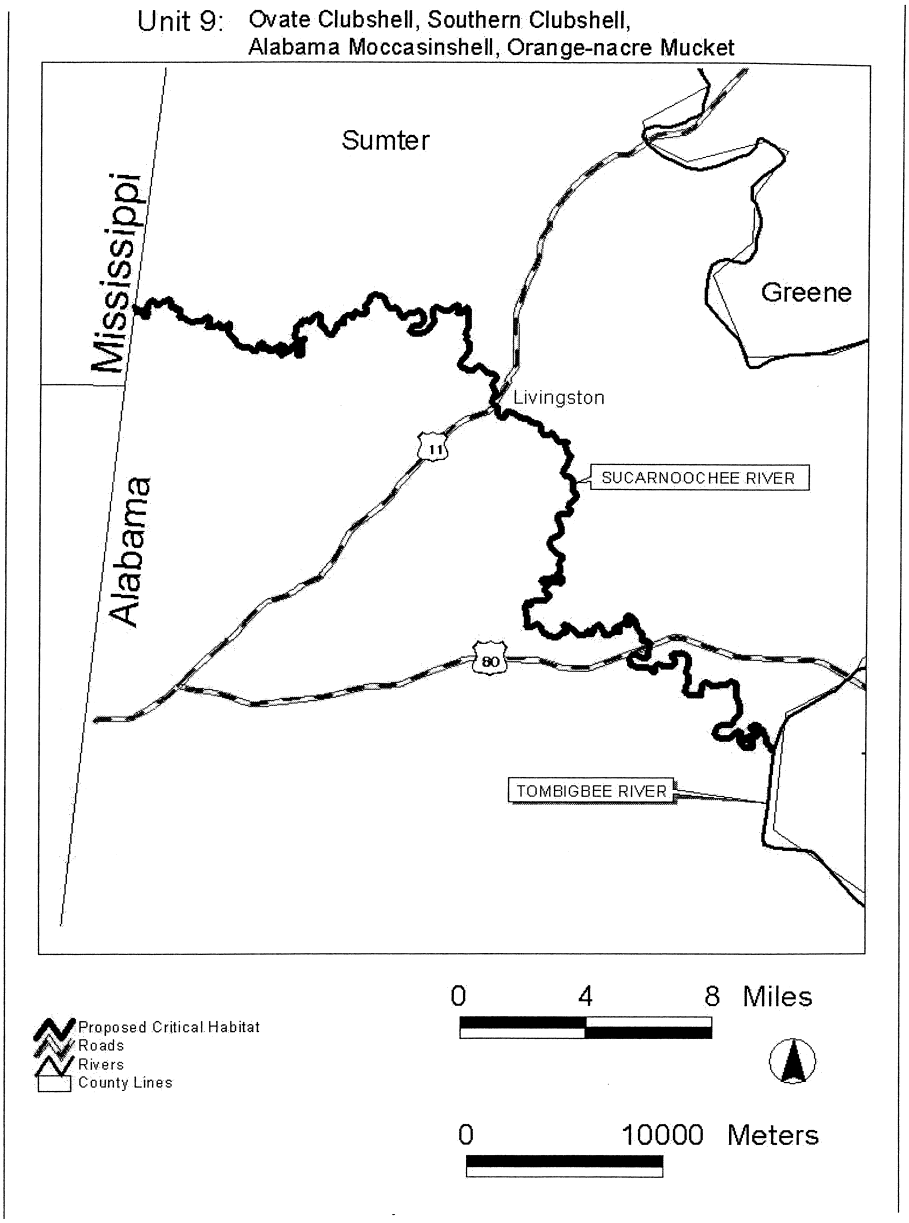
(B) Map of Unit 8 follows:



(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:

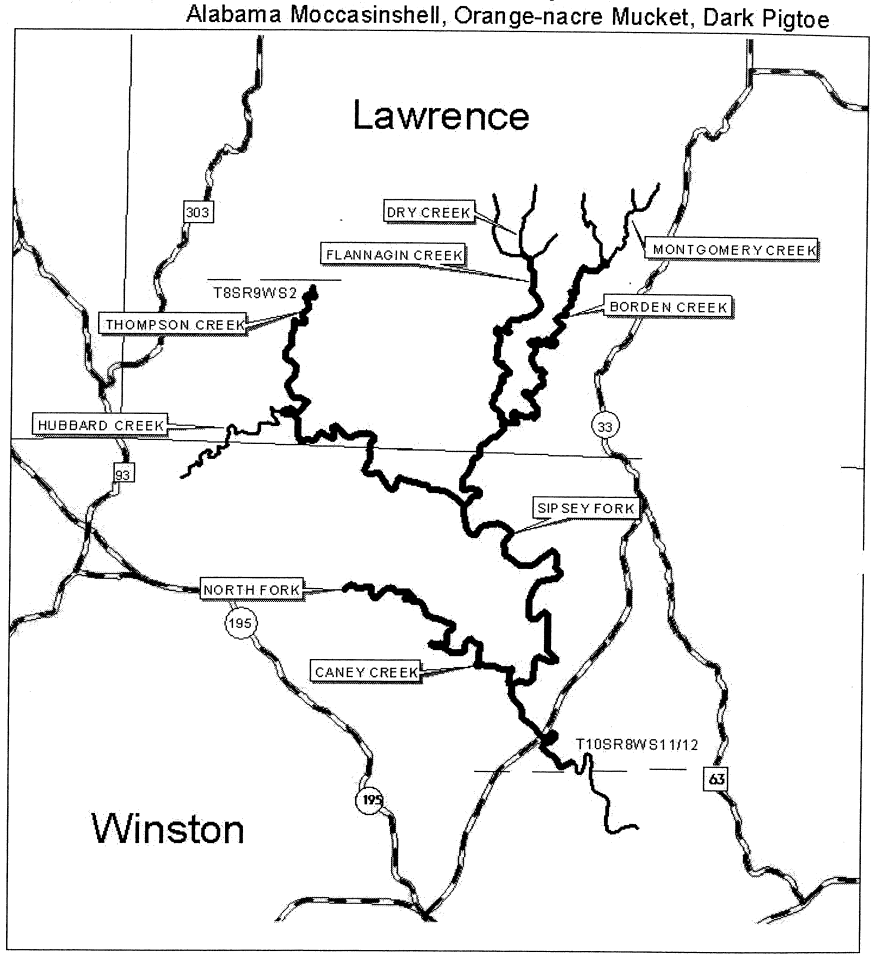


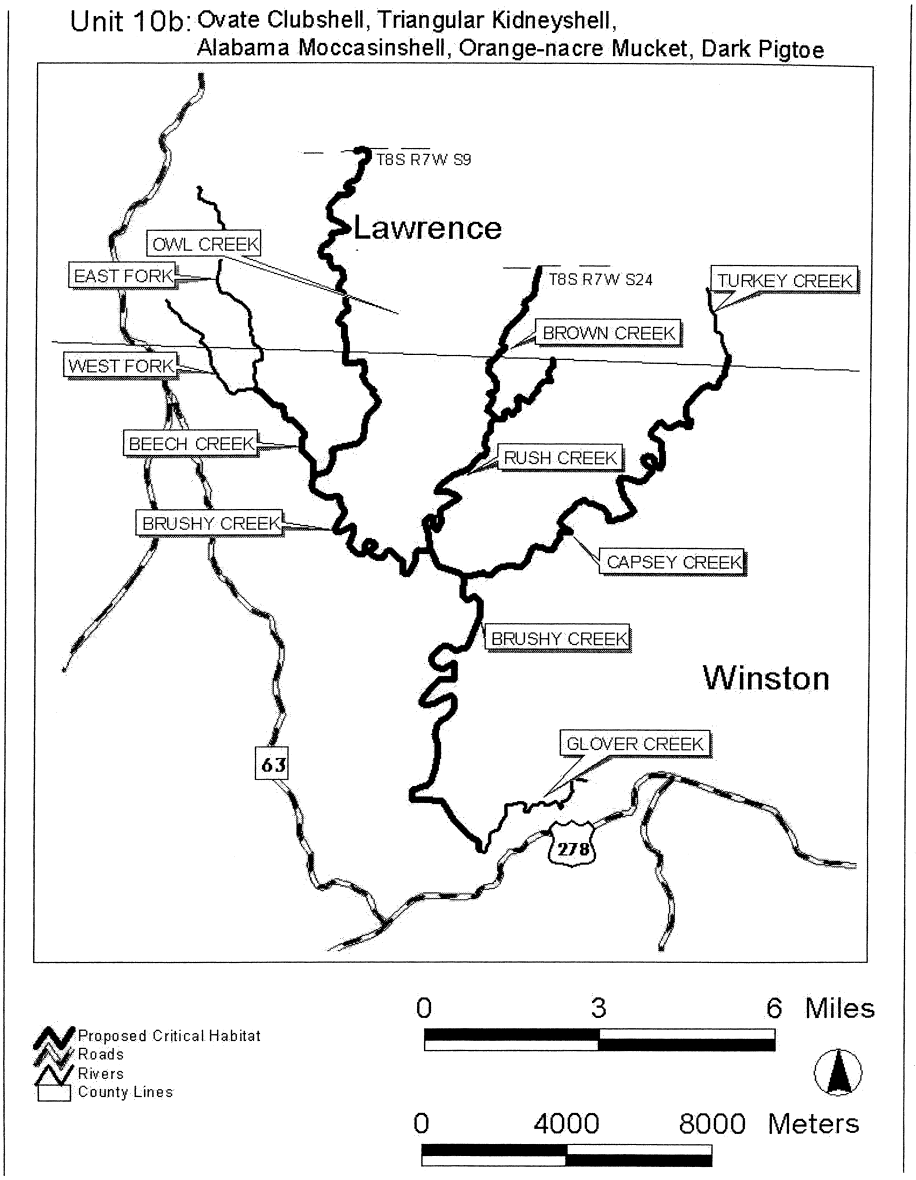
(xii) Unit 10. Sipsey Fork and tributaries, Winston, Lawrence Counties, Alabama. This is a critical habitat unit for the ovate clubshell, triangular kidneyshell, Alabama moccasinshell, orange-nacre mucket, and dark pigtoe.

(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.

Unit 10a: Ovate Clubshell, Triangular Kidneyshell, Alabama Moccasinshell, Orange-nacre Mucket, Dark Pigtoe

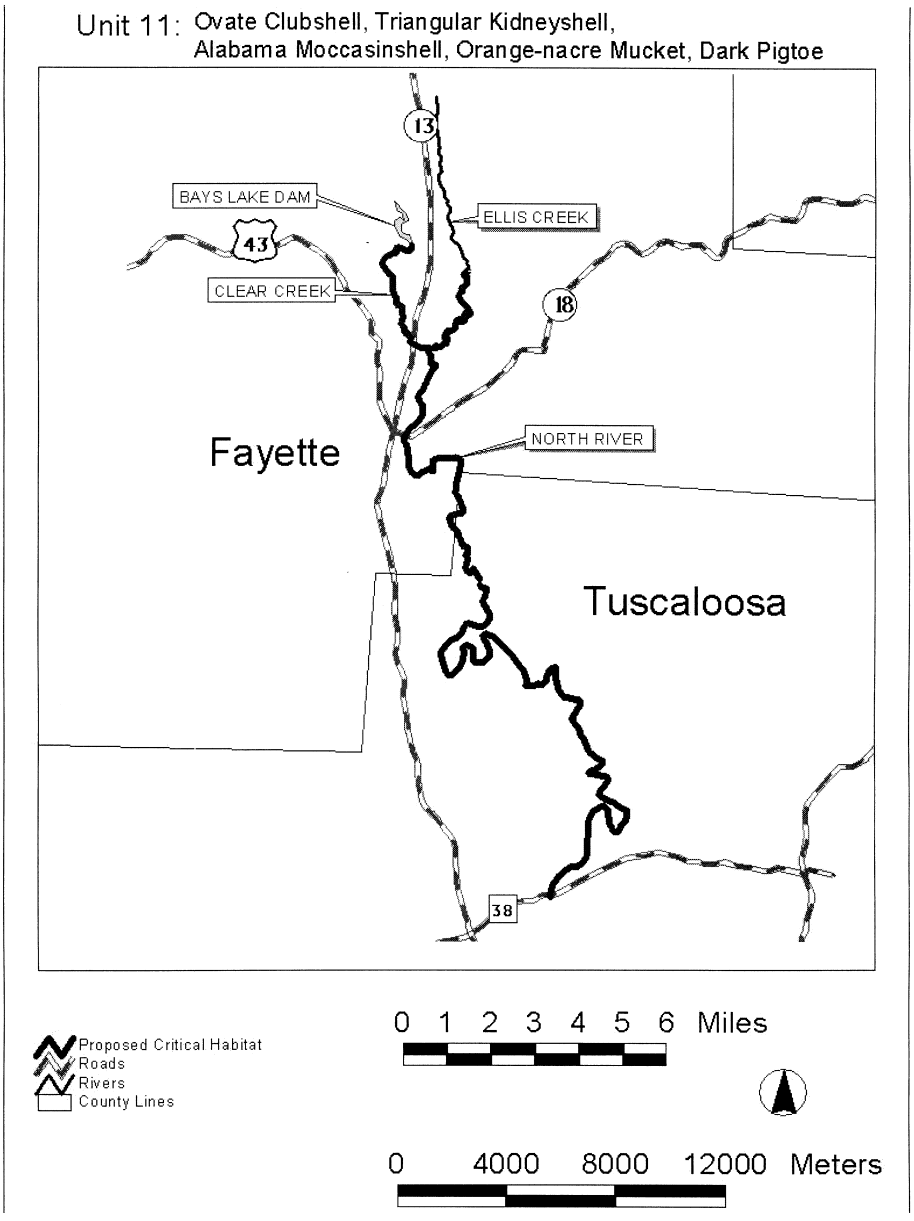




(xiii) Unit 11. North River and Clear Creek, Tuscaloosa, Fayette Counties, Alabama. This is a critical habitat unit for the ovate clubshell, triangular kidneyshell, Alabama moccasinshell, orange-nacre mucket, and dark pigtoe.

(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:

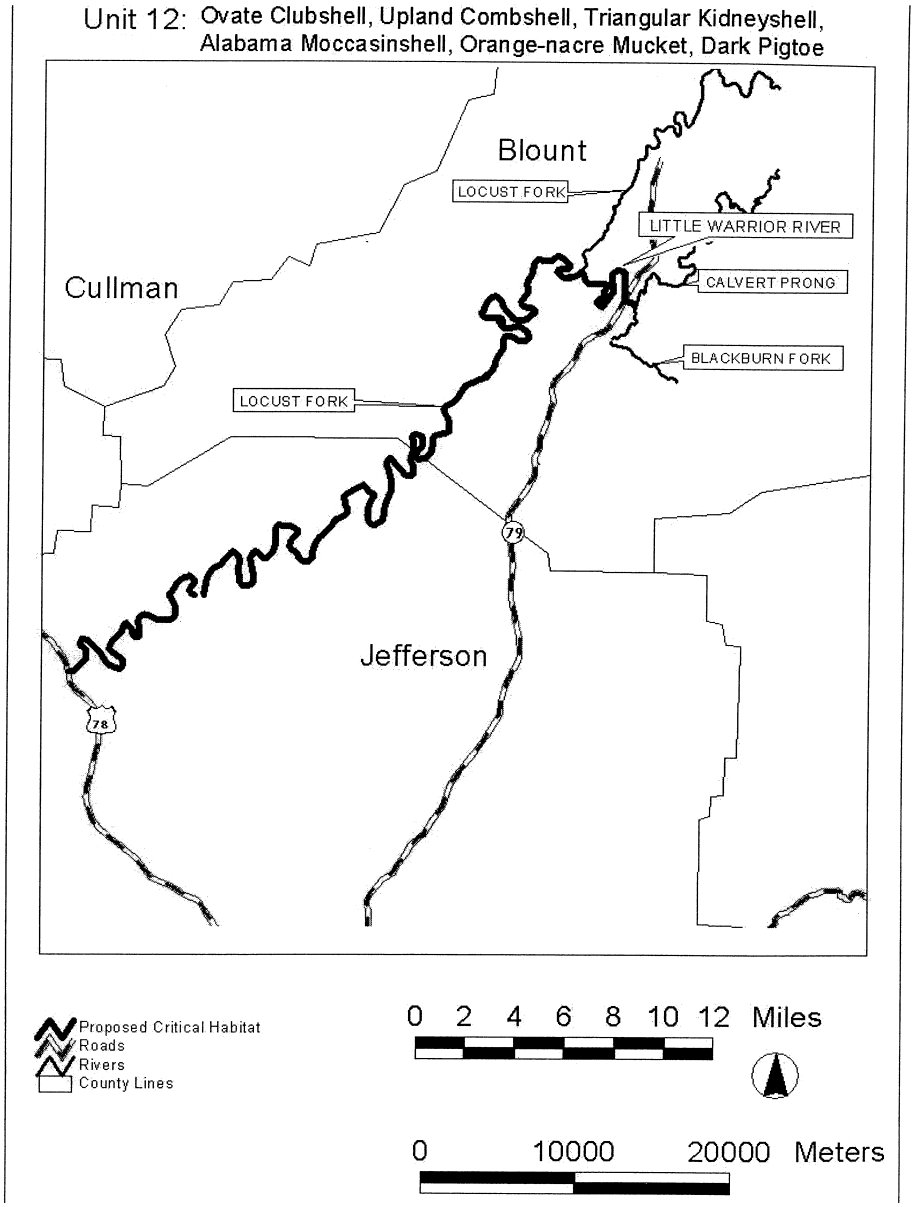


(xiv) Unit 12. Locust Fork and Little Warrior Rivers, Jefferson, Blount Counties, Alabama. This is a critical habitat unit for the ovate clubshell, upland combshell, triangular kidneyshell, Alabama moccasinshell, orange-nacre mucket, and dark pigtoe.

(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.

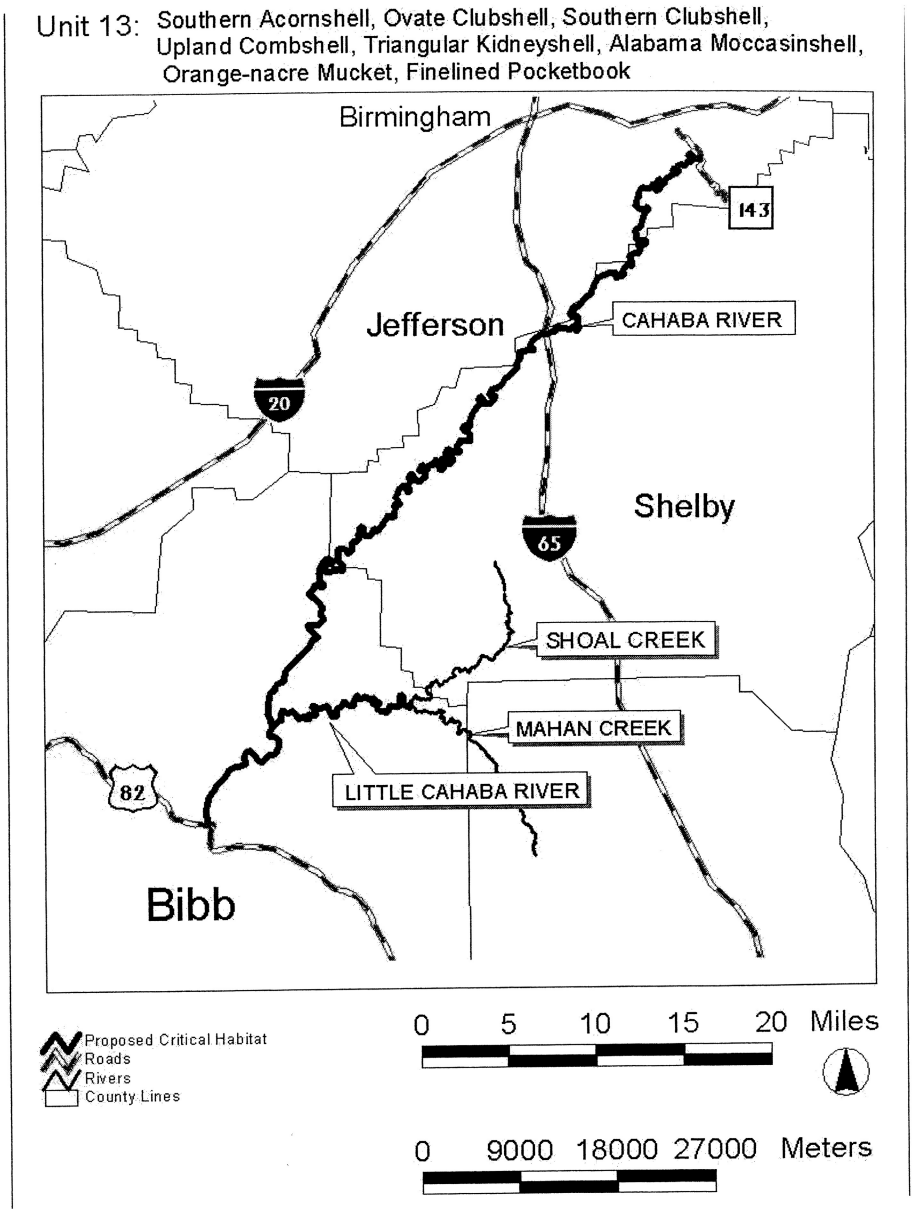
(B) Map of Unit 12 follows:



(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.

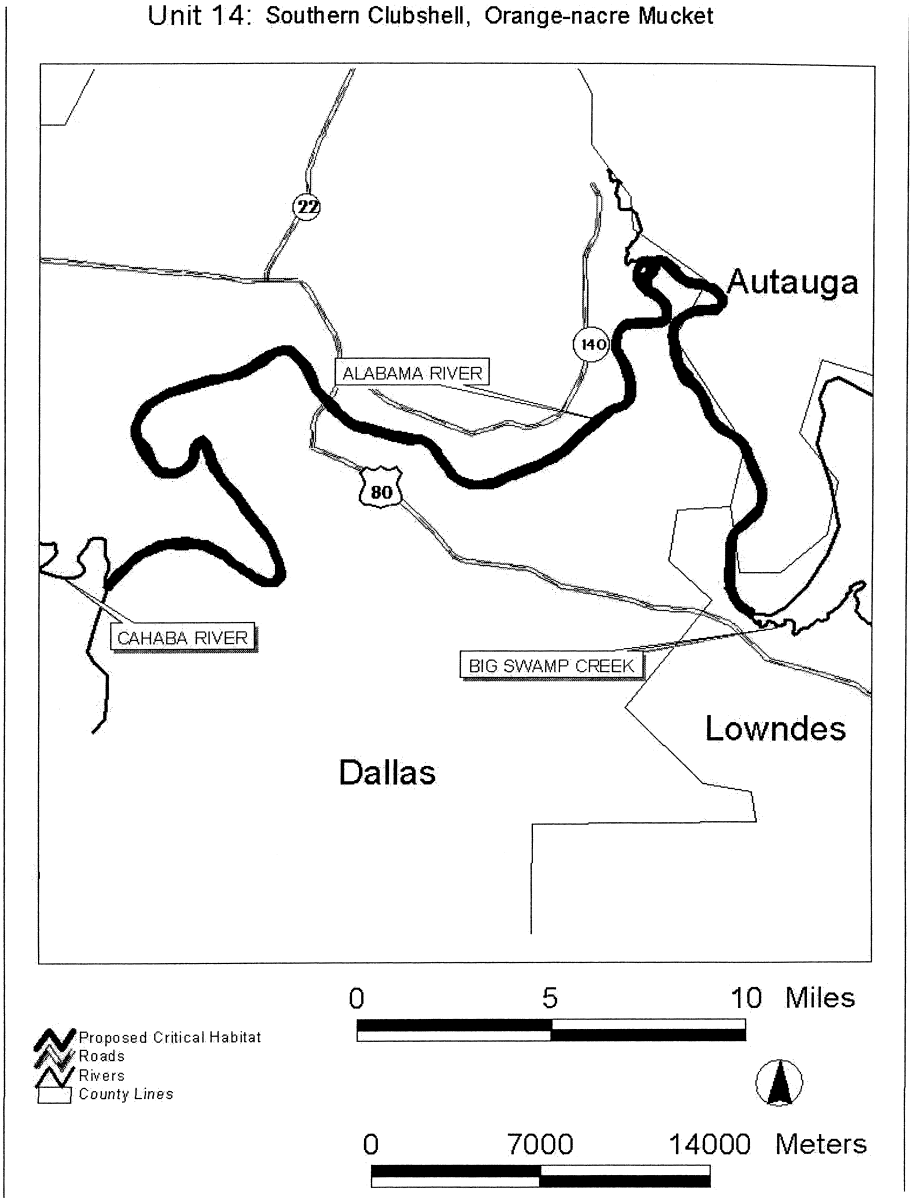
(B) Map of Unit 13 follows:



(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.

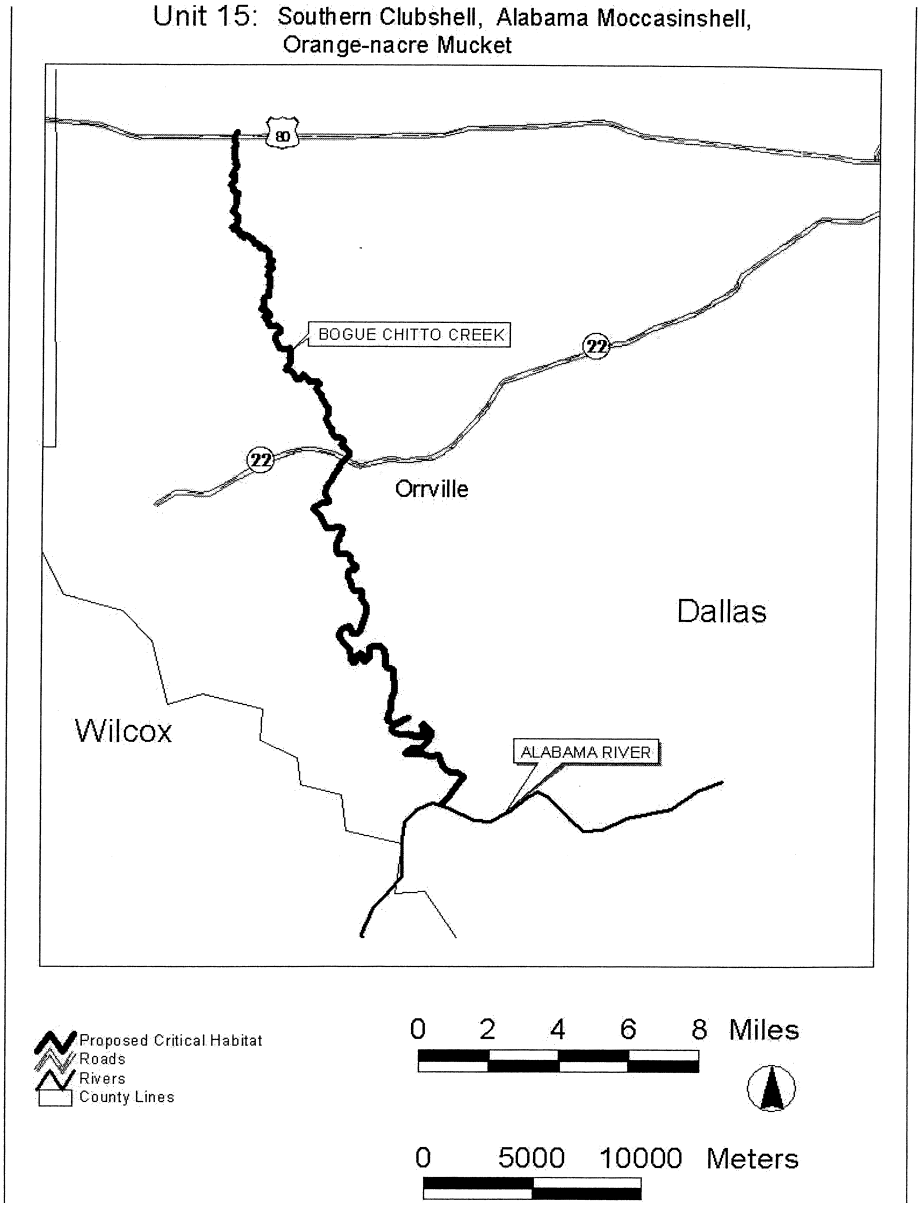
(B) Map of Unit 14 follows:



(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:

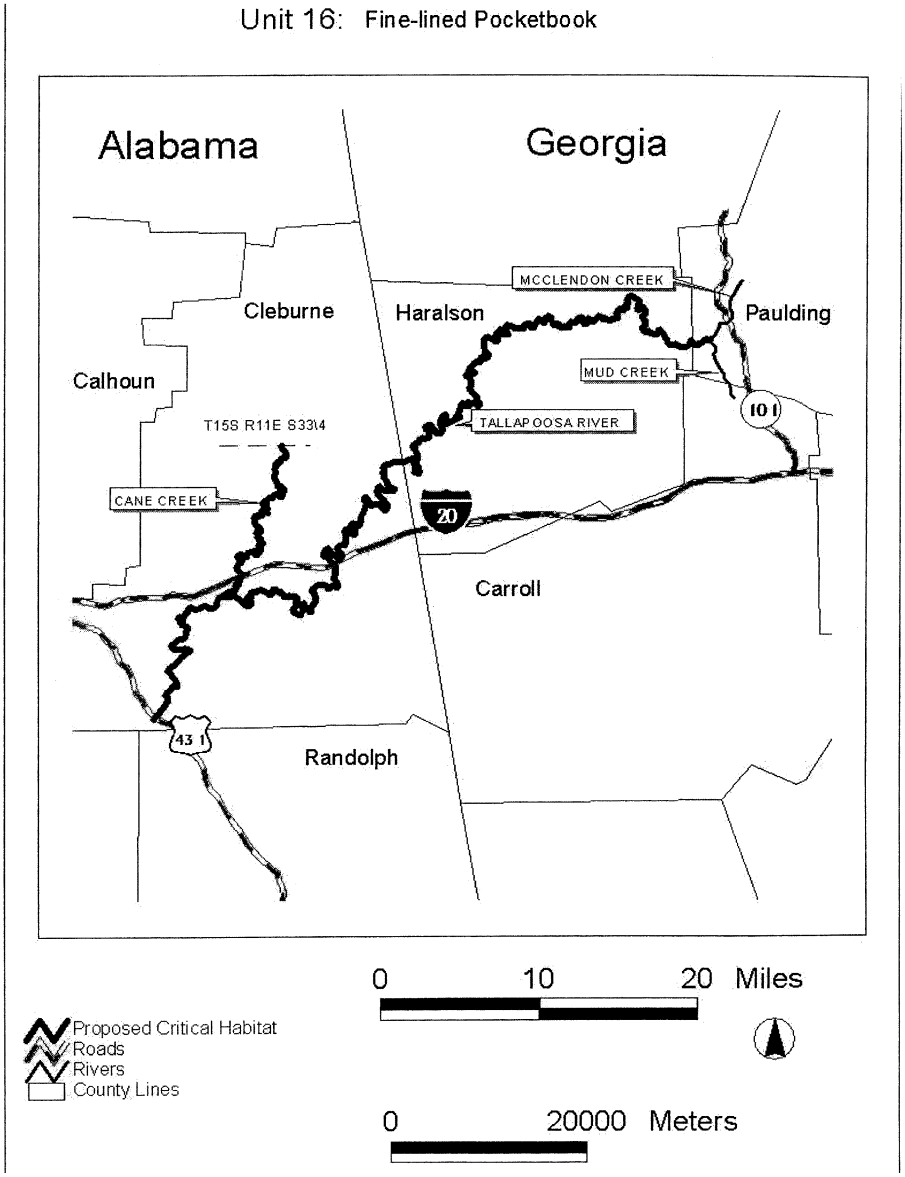


(xviii) Unit 16. Tallapoosa River, Cleburne County, Alabama, and Paulding, Haralson Counties, Georgia; Cane Creek, Cleburne County, Alabama. This is a critical habitat unit for the fine-lined pocketbook.

(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:

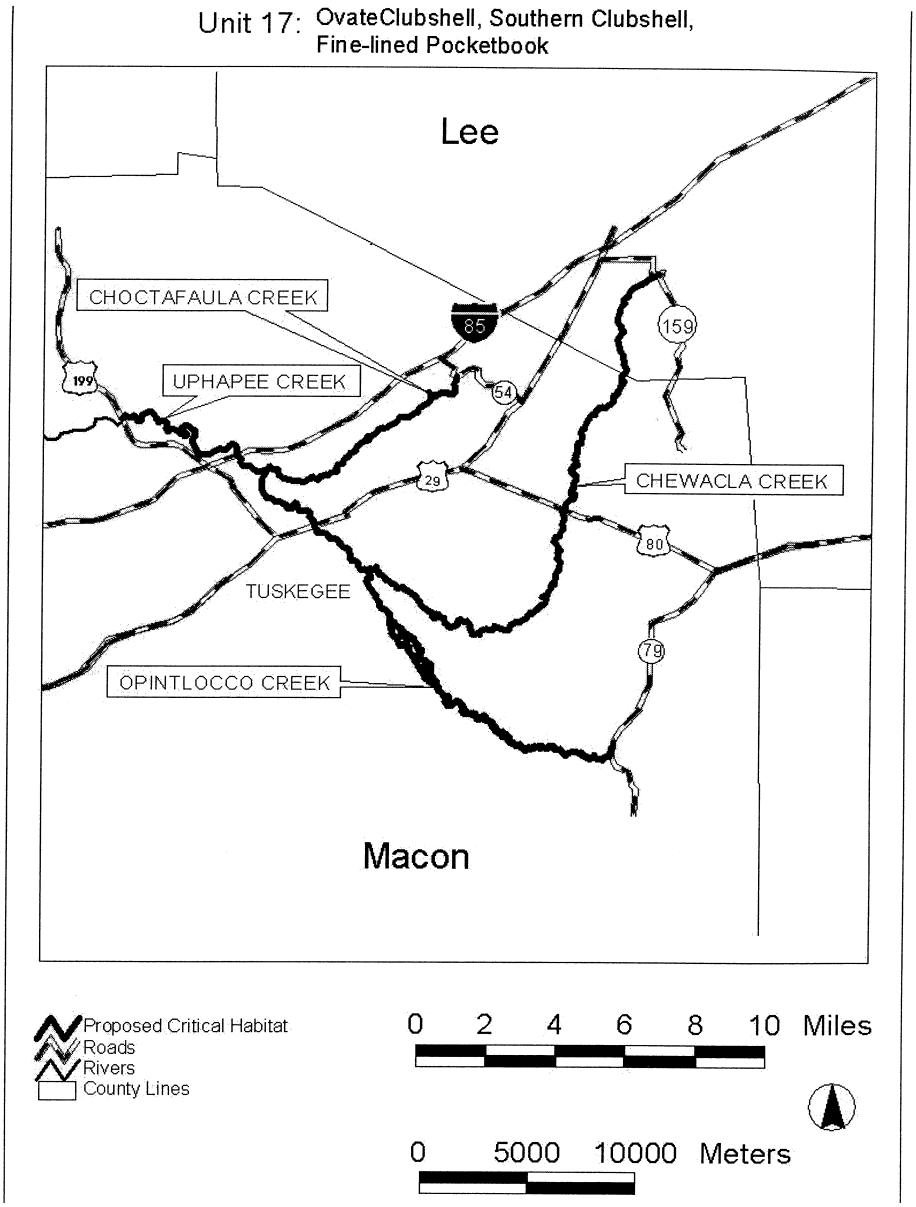


(xix) Unit 17. Uphapee, Choctafaula, and Chewacla Creeks, Macon, Lee Counties, Alabama. This is a critical habitat unit for the ovate clubshell, southern clubshell, and fine-lined pocketbook.

(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:

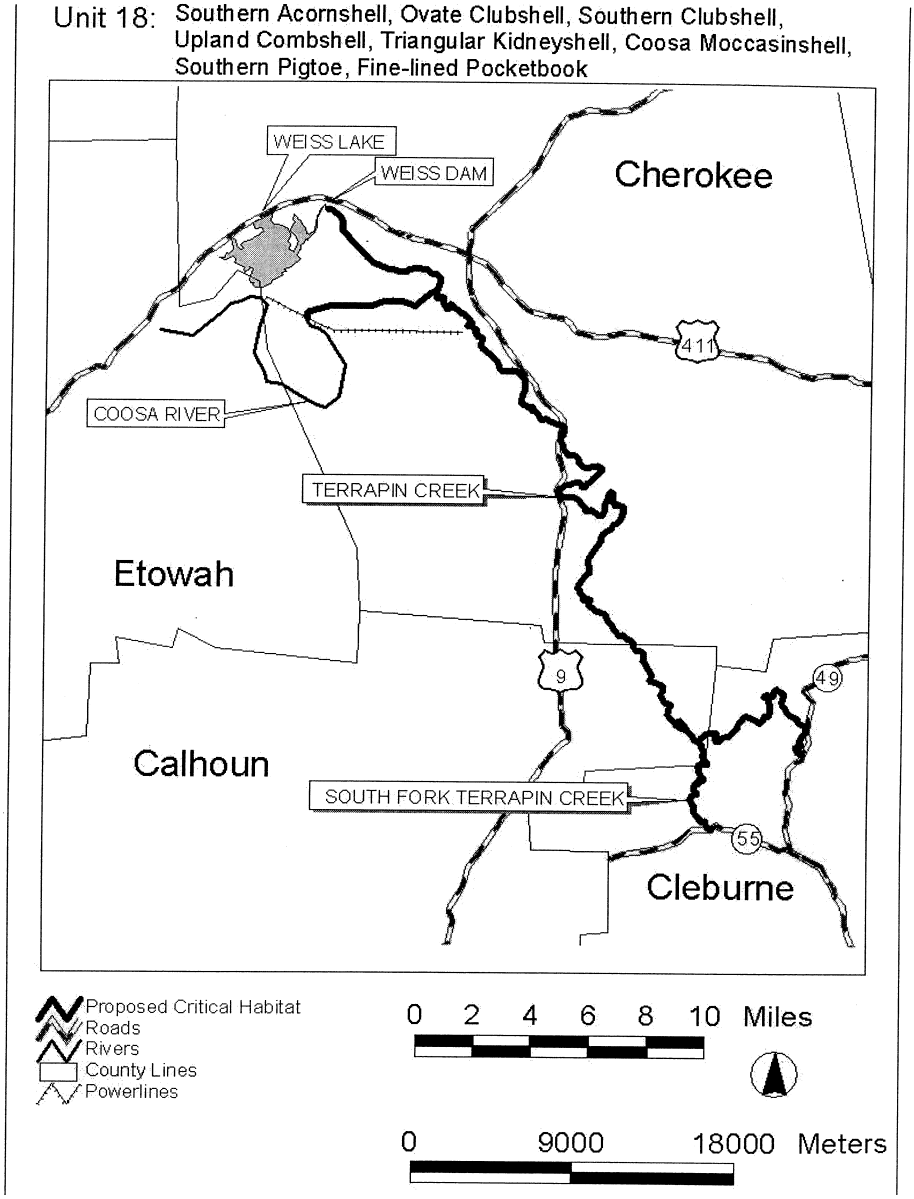


(xx) Unit 18. Coosa River (Old River Channel) and Terrapin Creek, Cherokee, Calhoun, Cleburne Counties, Alabama. This is a critical habitat unit for the southern acornshell, ovate clubshell, southern clubshell, upland combshell, triangular kidneyshell, Coosa moccasinshell, southern pigtoe, and fine-lined 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.

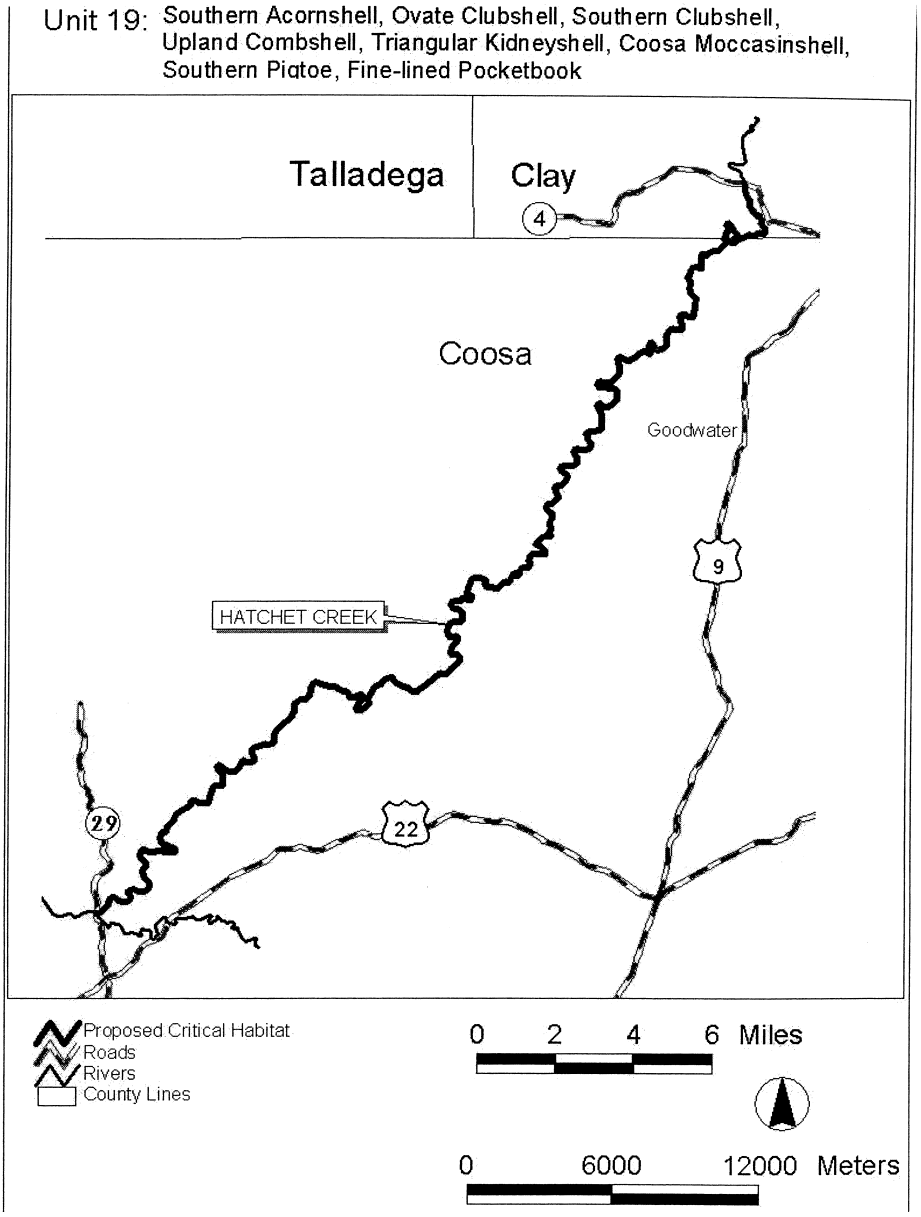
(B) Map of Unit 18 follows:



(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.

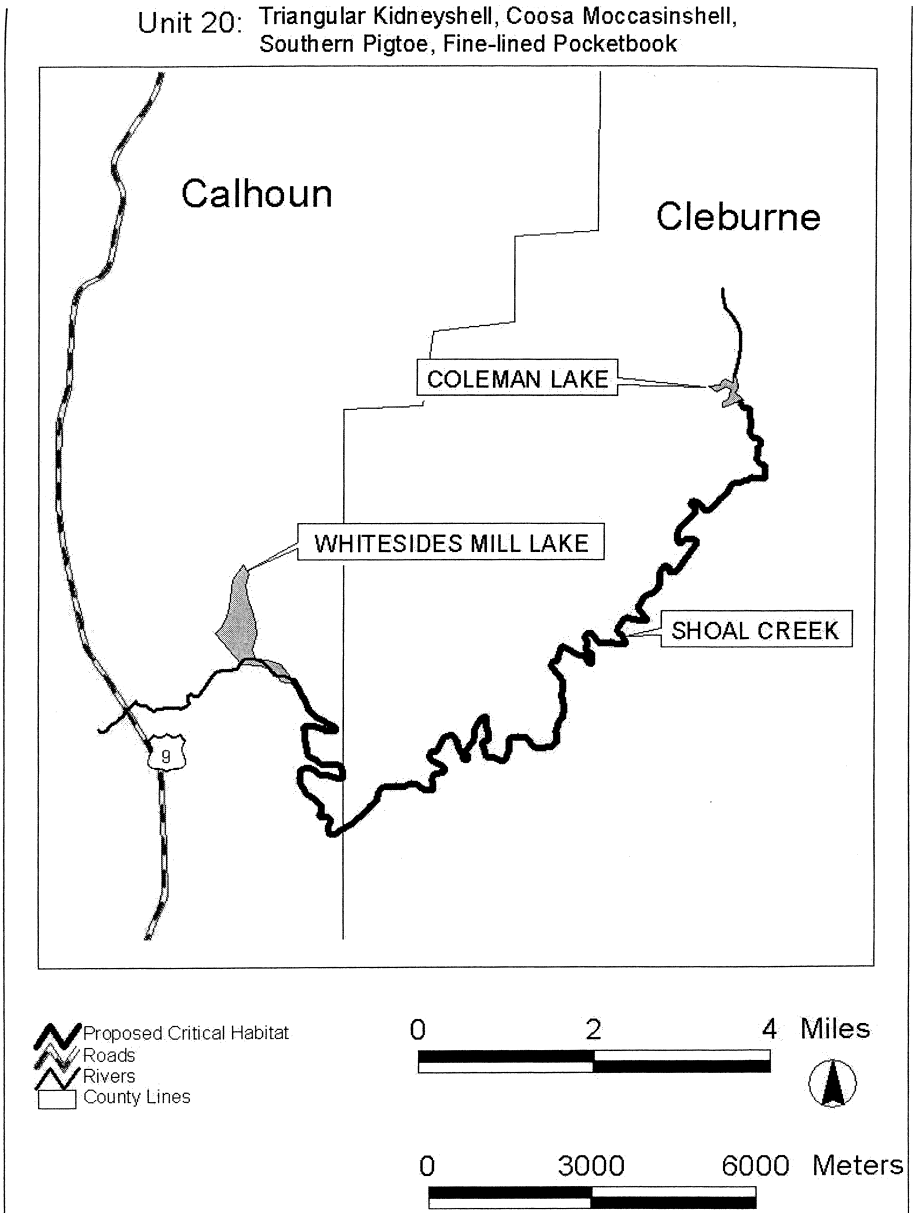
(B) Map of Unit 19 follows:



(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:

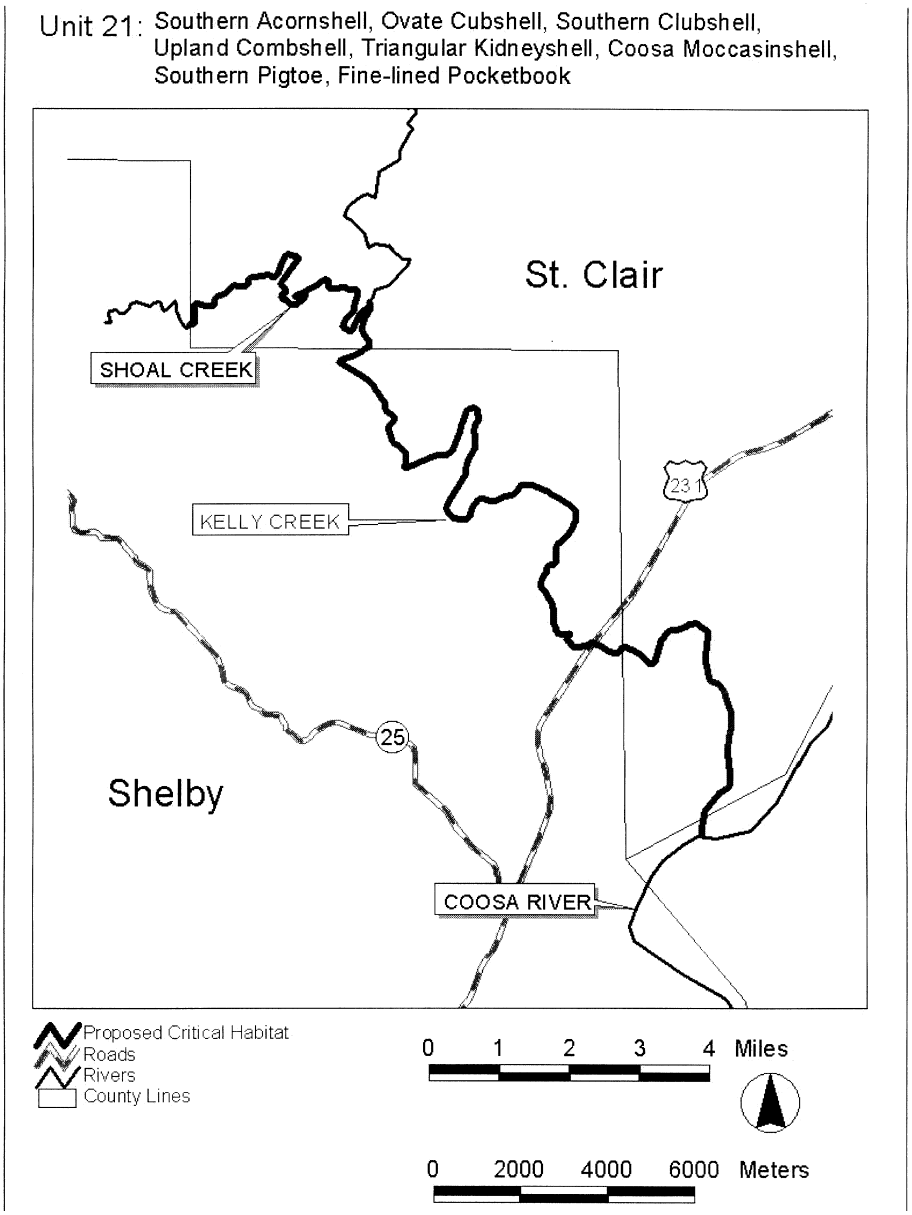


(xxiii) Unit 21. Kelly Creek and Shoal Creek, Shelby, St. Clair Counties, Alabama. This is a critical habitat unit for the southern acornshell, ovate clubshell, southern clubshell, upland combshell, triangular

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.

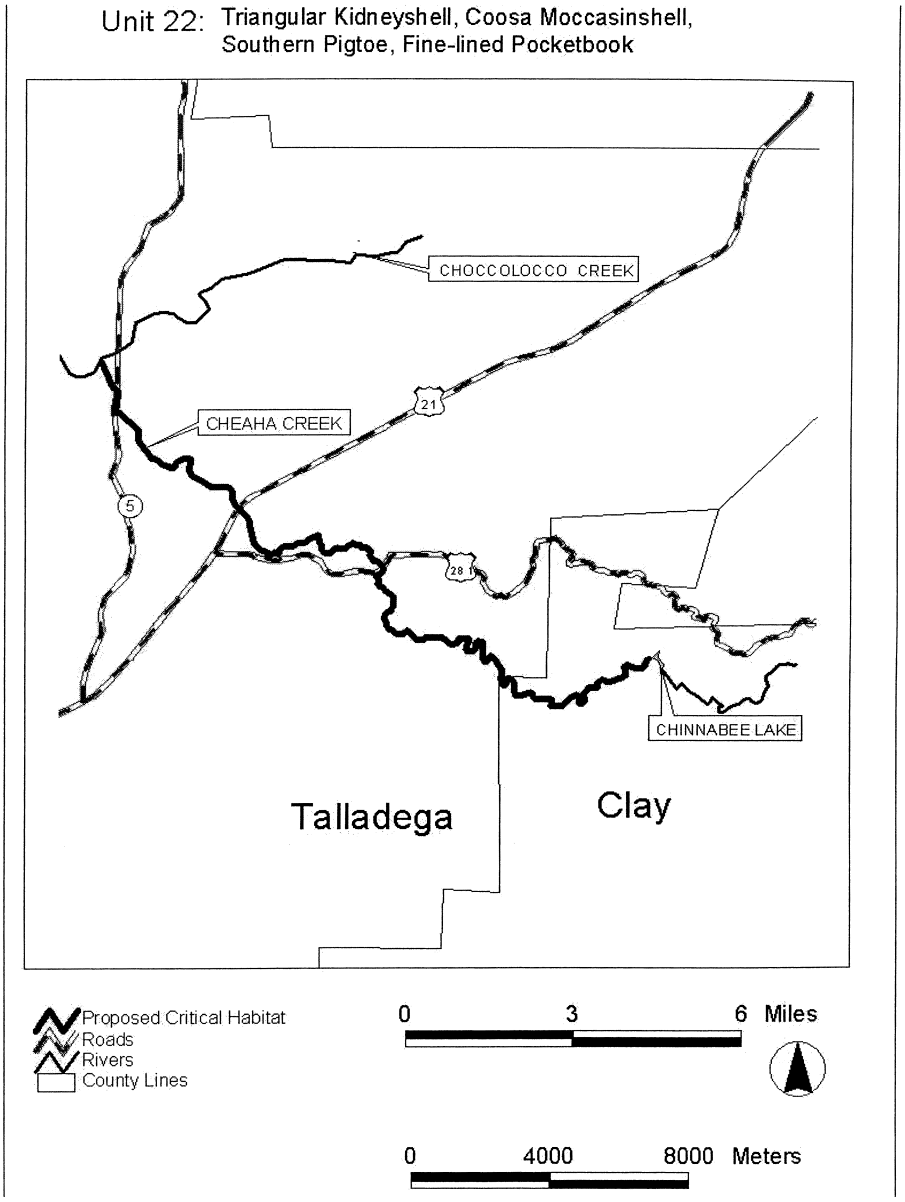
(B) Map of Unit 21 follows:



(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:

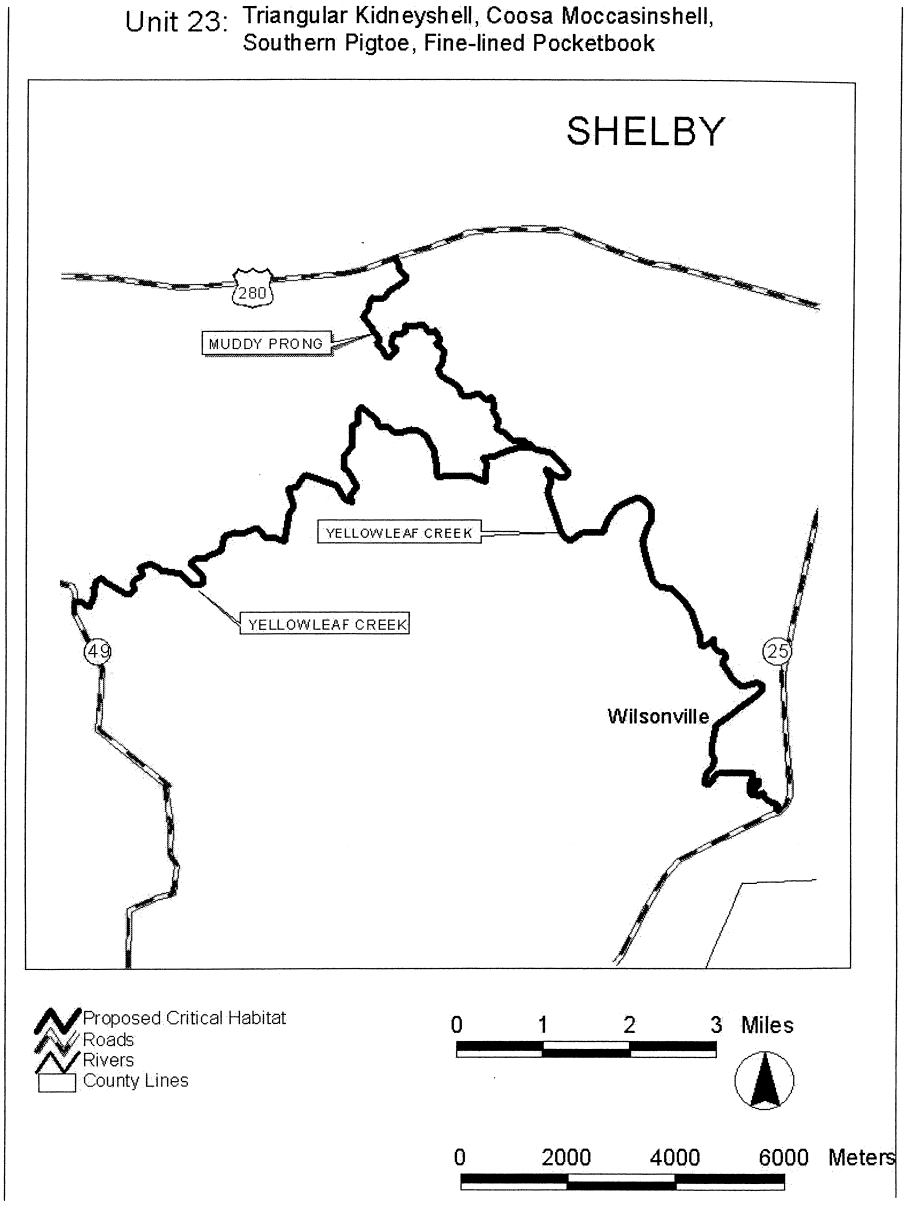


(xxv) Unit 23. Yellowleaf Creek and Mud Creek, Shelby County, Alabama. This is a critical habitat unit for the triangular kidneyshell, Coosa moccasinshell, southern pigtoe, and fine-lined pocketbook.

(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.

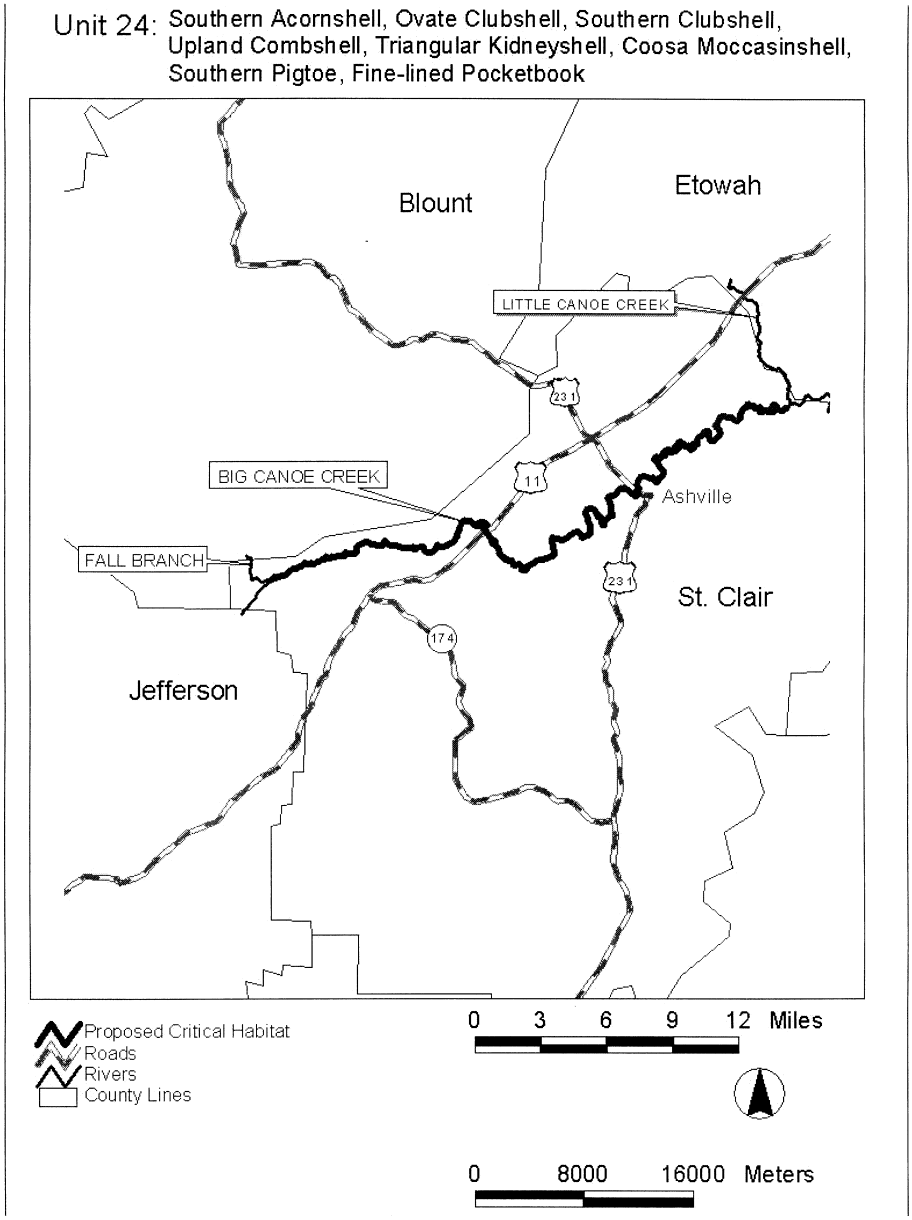
(B) Map of Unit 23 follows:



(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:

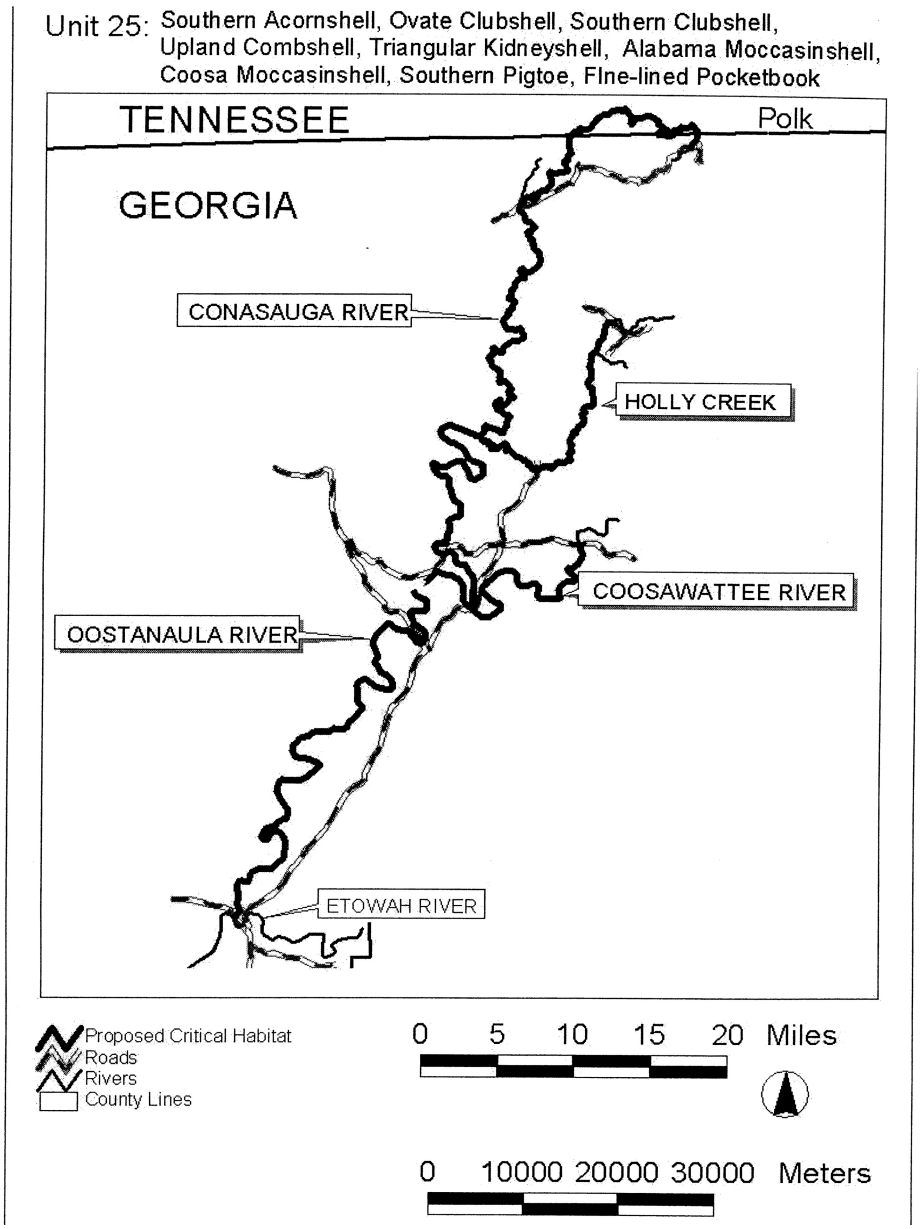


(xxvii) Unit 25. Oostanaula, Coosawattee, and Conasauga Rivers, and Holly Creek, Floyd, Gordon, Whitfield, Murray Counties, Georgia; Bradley, Polk Counties, Tennessee. This is a critical habitat unit for the southern acornshell, ovate clubshell, southern clubshell, upland combshell, triangular kidneyshell, 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:

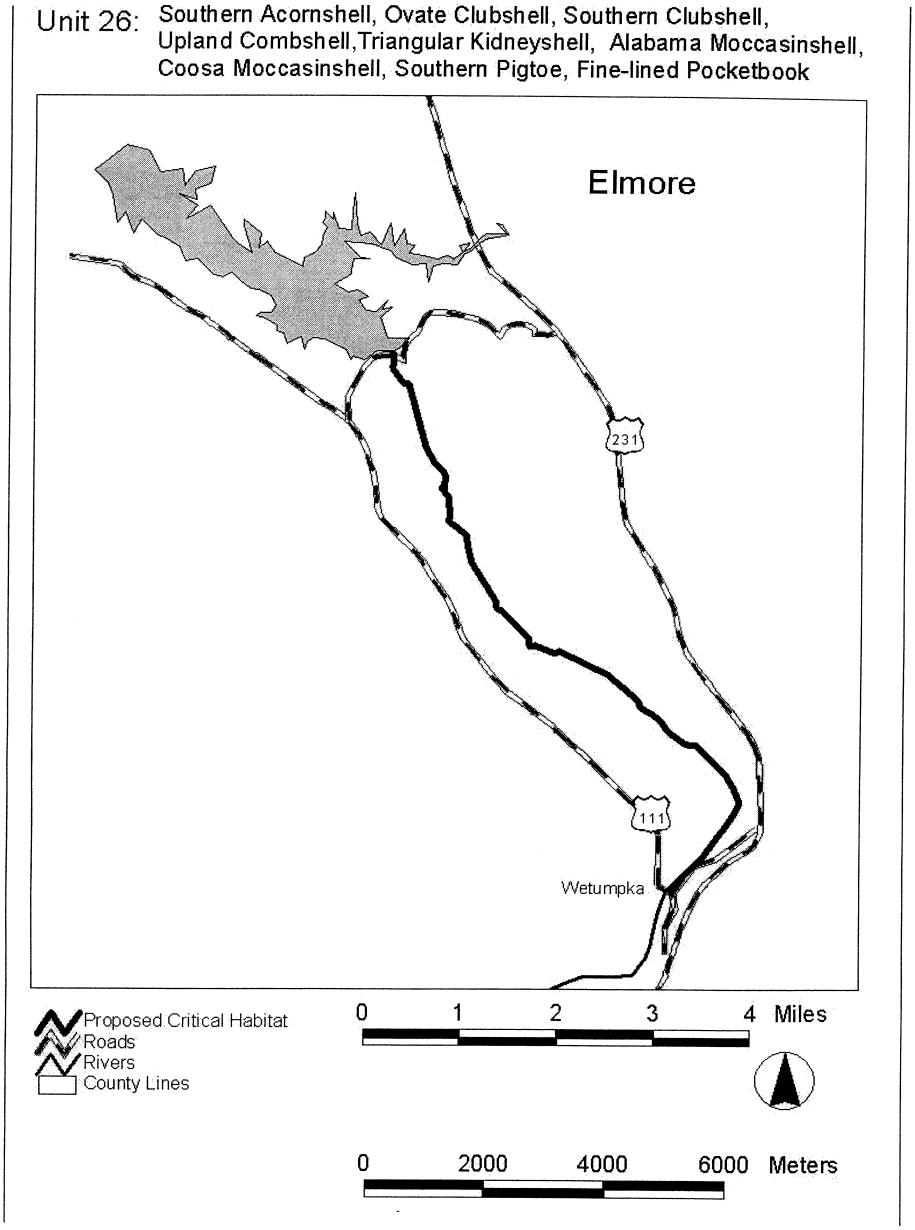


(xxviii) Unit 26. Lower Coosa River, Elmore County, Alabama. This is a critical habitat unit for the southern acornshell, ovate clubshell, southern clubshell, upland combshell, triangular kidneyshell, Alabama moccasinshell, Coosa moccasinshell, southern pigtoe, and fine-lined pocketbook.

(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:



FIVE TENNESSEE AND CUMBERLAND RIVER BASIN MUSSELS SPECIES: PURPLE BEAN (*Villosa perpurpurea*), CUMBERLANDIAN COMBSHELL (*Epioblasma brevidens*), CUMBERLAND ELKTOE (*Alasmidonta atropurpurea*), OYSTER MUSSEL (*Epioblasma capsaeformis*), AND ROUGH RABBITSFOOT (*Quadrula cylindrica strigillata*).

(1) The primary constituent elements essential for the conservation of the purple bean (*Villosa perpurpurea*), Cumberlandian combshell (*Epioblasma brevidens*), Cumberland elktoe (*Alasmidonta atropurpurea*), oyster mussel (*Epioblasma capsaeformis*), and rough rabbitsfoot (*Quadrula cylindrica strigillata*) 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) Permanent, flowing stream reaches with 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 the five mussels and their host fish;

(ii) Geomorphically stable stream and river channels and banks;

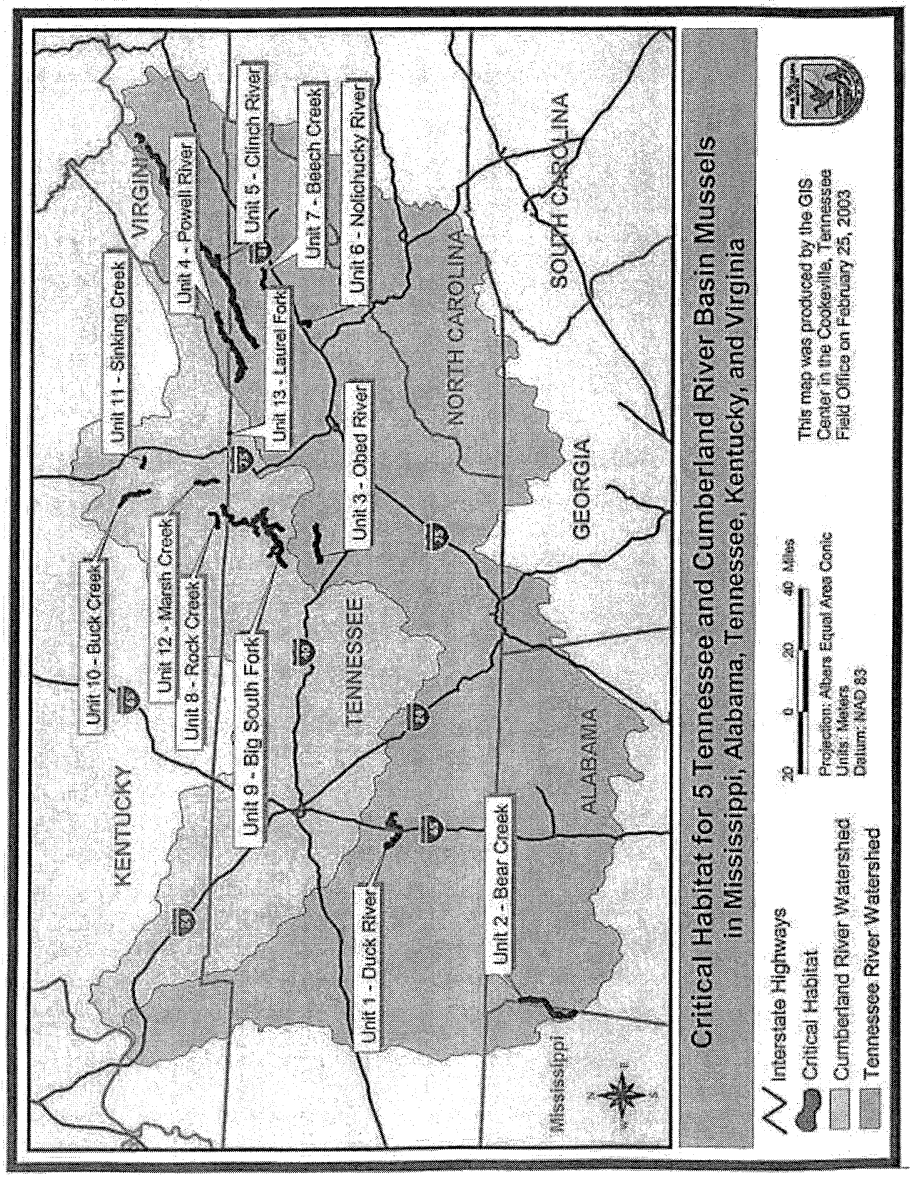
(iii) Stable substrates consisting of mud, sand, gravel, and/or cobble/boulder, with low amounts of fine sediments or attached filamentous algae;

(iv) Water quality (including temperature, turbidity, oxygen content, and other characteristics) necessary for the normal behavior, growth, and survival of all life stages of the five mussels and their host fish; and

(v) Fish hosts with adequate living, foraging, and spawning areas for them.

(2) Critical habitat unit descriptions and maps.

(i) Index map. The index map showing critical habitat units in the States of Mississippi, Alabama, Tennessee, Kentucky, and Virginia for the five Tennessee and Cumberland River Basin mussels follows:


Critical Habitat for 5 Tennessee and Cumberland River Basin Mussels
in Mississippi, Alabama, Tennessee, Kentucky, and Virginia
Interstate Highways
Critical Habitat
Cumberland River Watershed
Tennessee River Watershed
20 0 20 40 Miles
Projection: Albers Equal Area Conic
Units: Meters
Datum: NAD 83
This map was produced by the GIS
Center in the Cookeville, Tennessee
Field Office on February 25, 2003
KENTUCKY
VIRGINIA
TENNESSEE
NORTH CAROLINA
SOUTH CAROLINA
GEORGIA
ALABAMA
Mississippi
Unit 1 - Duck River
Unit 2 - Bear Creek
Unit 3 - Obed River
Unit 4 - Powell River
Unit 5 - Clinch River
Unit 6 - Nolichucky River
Unit 7 - Beech Creek
Unit 8 - Rock Creek
Unit 9 - Big South Fork
Unit 10 - Buck Creek
Unit 11 - Sinking Creek
Unit 12 - Marsh Creek
Unit 13 - Laurel Fork

(ii) Table of 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.

TABLE OF FIVE TENNESSEE AND CUMBERLAND RIVER BASIN MUSSELS, THEIR CRITICAL HABITAT UNITS, AND STATES CONTAINING THOSE CRITICAL HABITAT UNITS

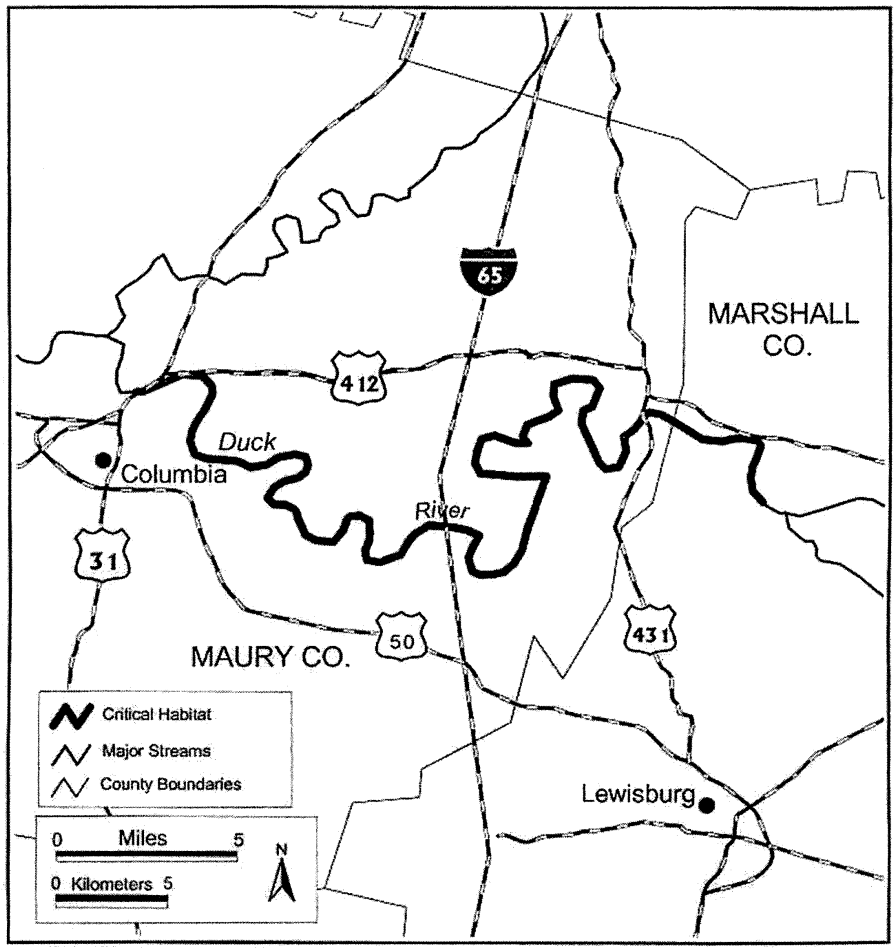
Species	Critical habitat units	States
purple bean (*Villosa perpurpurea*).	Units 3, 4, 5, 7	TN, VA
Cumberlandian combshell (*Epioblasma brevidens*).	Units 1, 2, 4, 5, 6, 9, 10.	AL, KY, MS, TN, VA
Cumberland elktoe (*Alasmidonta atropurpurea*).	Units 8, 9, 11, 12, 13	KY, TN
oyster mussel (*Epioblasma capsaeformis*).	Units 1, 2, 4, 5, 6, 9,10.	AL, KY, MS, TN, VA
rough rabbitsfoot (*Quadrula cylindrica strigillata*).	Units 4, 5	TN, VA

(iii) Unit 1. Duck River, Marshall and Maury Counties, Tennessee. This is a critical habitat unit for the oyster mussel and Cumberlandian combshell.

(A) Unit 1 includes the main stem of the Duck River from rkm 214 (rmi 133) (0.3 rkm (0.2 rmi) upstream of the First Street Bridge) (−87.03 longitude, 35.63 latitude) in the City of Columbia, Maury County, Tennessee, upstream to Lillard Mill Dam at rkm 288 (rmi 179) (−86.78 longitude, 35.58 latitude), Marshall County, Tennessee.

(B) Map of Unit 1 follows:

Unit 1 - Duck River: Critical Habitat for Oyster mussel and Cumberlandian combshell



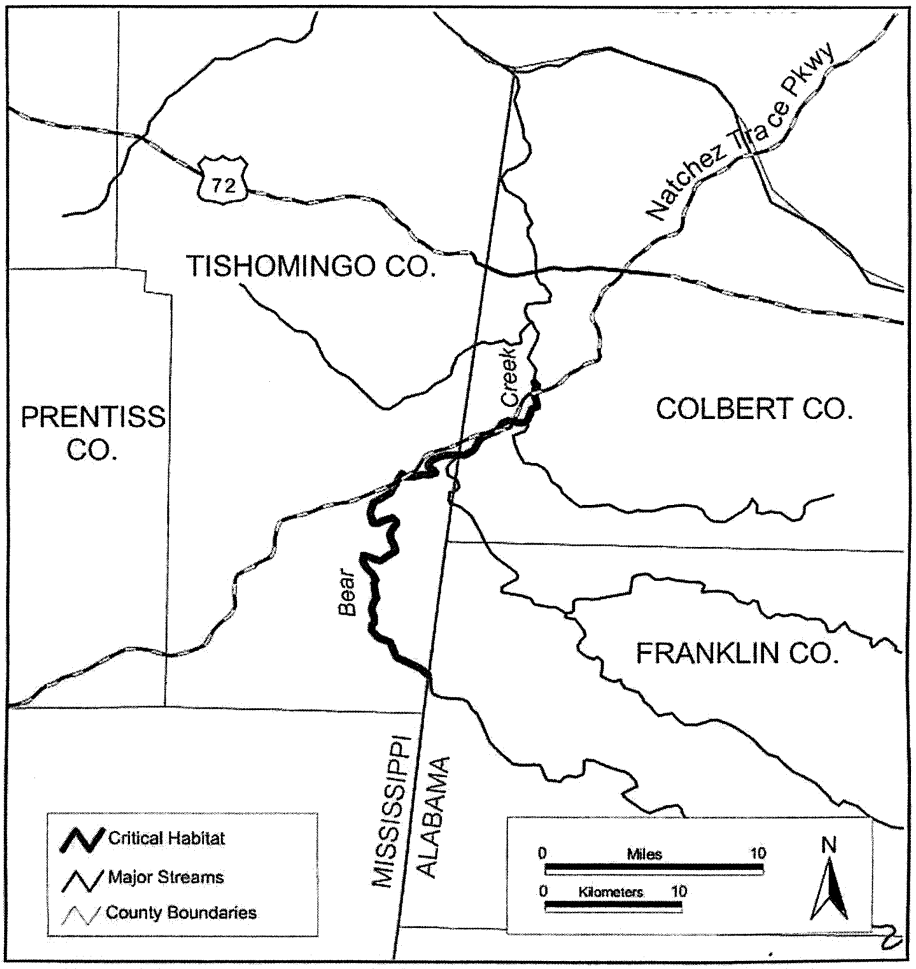
This map is provided for illustrative purposes of critical habitat only. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

(iv) Unit 2. Bear Creek, Colbert County, Alabama, and Tishomingo County, Mississippi. This is a critical habitat unit for the oyster mussel and Cumberlandian combshell.

(A) Unit 2 consists of the main stem of Bear Creek from the backwaters of Pickwick Lake at rkm 37 (rmi 23) (-88.09 longitude, 34.81 latitude), Colbert County, Alabama, upstream through Tishomingo County, Mississippi, ending at the Mississippi/Alabama State line.

(B) Map of Unit 2 follows:

Unit 2 - Bear Creek: Critical Habitat for Oyster mussel and Cumberlandian combshell



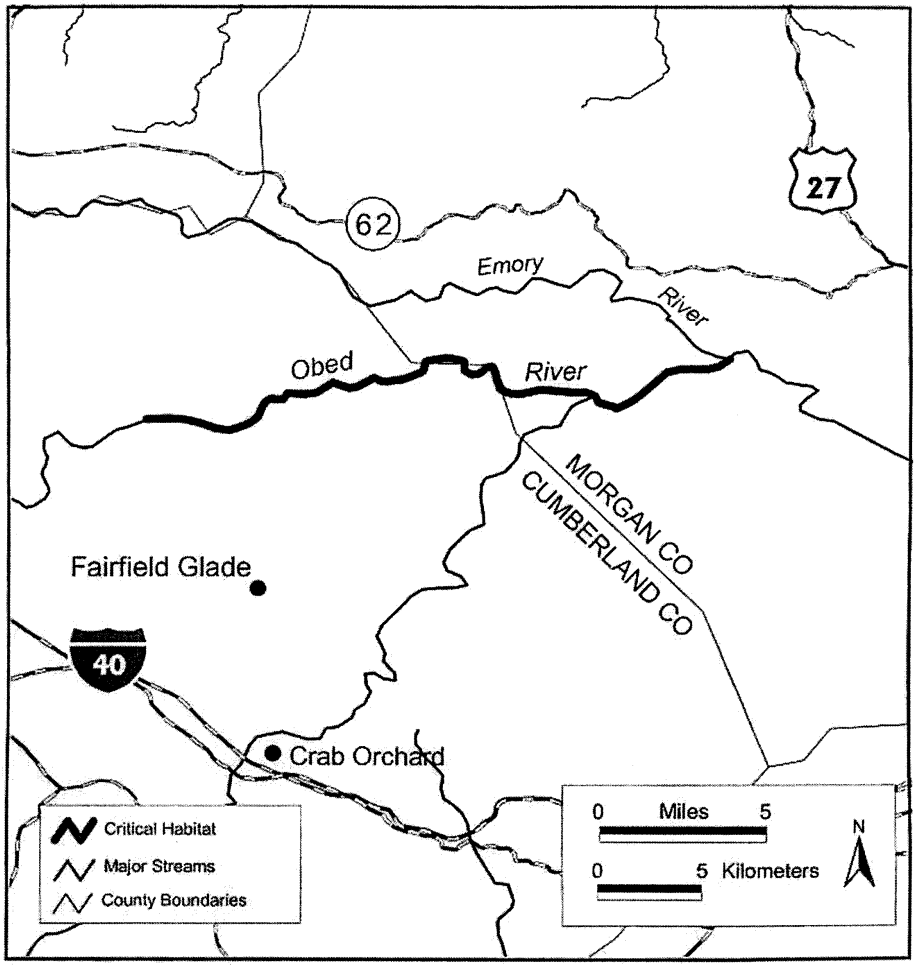
This map is provided for illustrative purposes of critical habitat only. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

(v) Unit 3. Obed River, Cumberland and Morgan Counties, Tennessee. This is a critical habitat unit for the purple bean.

(A) Unit 3 includes the Obed River main stem from its confluence with the Emory River (-84.69 longitude, 36.09 latitude), Morgan County, Tennessee, upstream to Adams Bridge, Cumberland County, Tennessee (-84.95 longitude, 36.07 latitude).

(B) Map of Unit 3 follows:

Unit 3 - Obed River: Critical Habitat for Purple bean



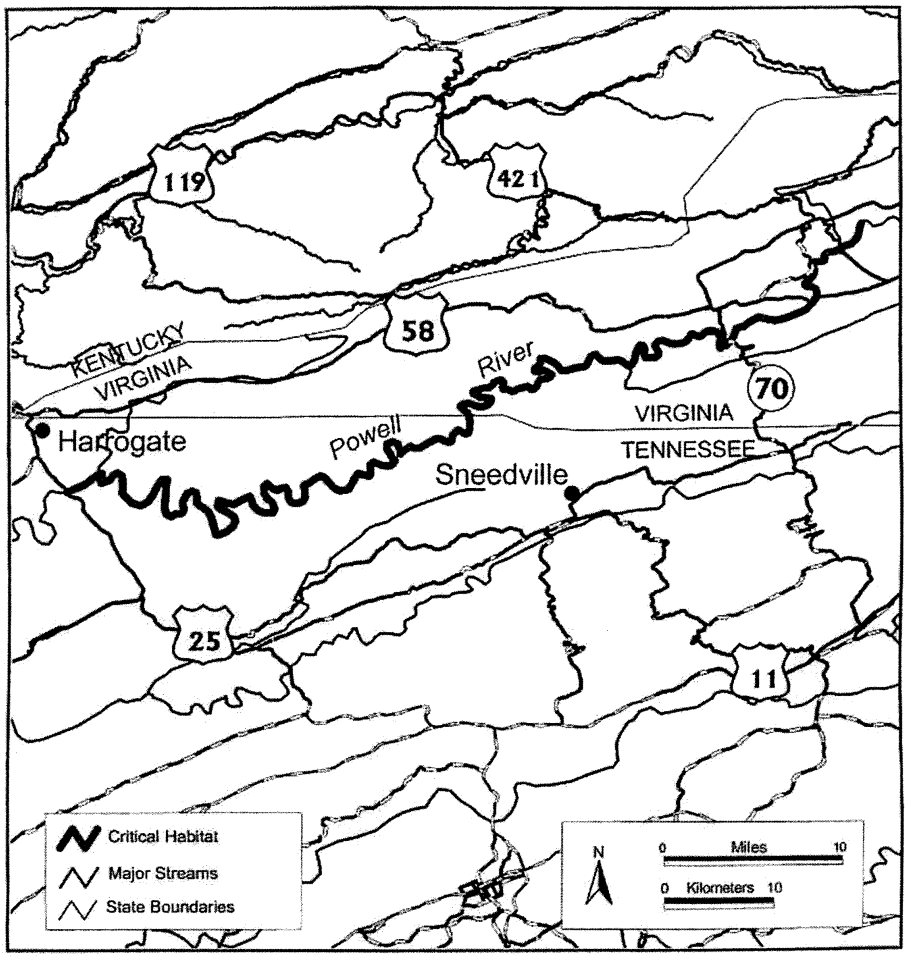
This map is provided for illustrative purposes of critical habitat only. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

(vi) Unit 4. Powell River, Claiborne and Hancock Counties, Tennessee, and Lee County, Virginia. This is a critical habitat unit for the purple bean, Cumberlandian combshell, oyster mussel, and rough rabbitsfoot.

(A) Unit 4 includes the main stem of the Powell River from the U.S. 25E bridge in Claiborne County, Tennessee (-83.63 longitude, 36.53 latitude), upstream to river mile 159 (upstream of Rock Island in the vicinity of Pughs) Lee County, Virginia.

(B) Map of Unit 4 follows:

Unit 4 - Powell River: Critical Habitat for Purple bean, Cumberlandian combshell, Oyster mussel, and Rough rabbitsfoot



This map is provided for illustrative purposes of critical habitat only. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

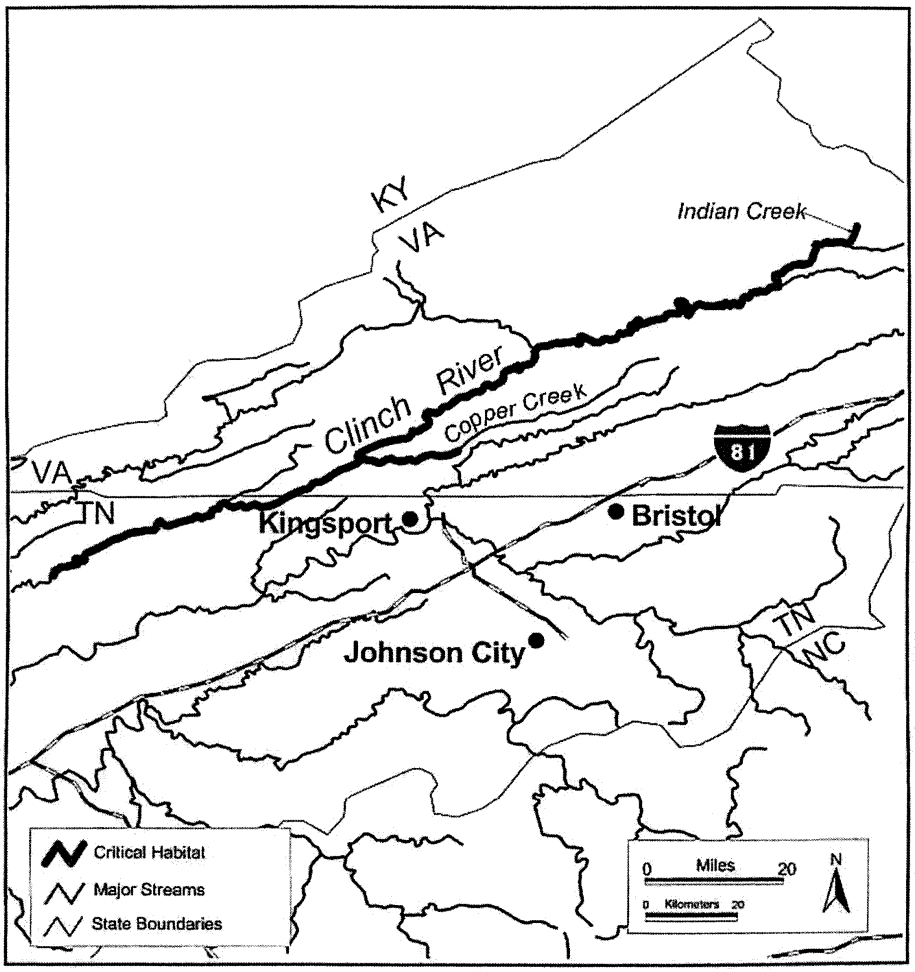
(vii) Unit 5. Clinch River, Hancock County, Tennessee, and Scott, Russell, and Tazewell Counties, Virginia; Copper Creek, Scott County, Virginia; and Indian Creek, Tazewell County, Virginia. This is a critical habitat unit for the purple bean, Cumberlandian combshell, oyster mussel, and rough rabbitsfoot.

(A) Unit 5 includes the Clinch River main stem from rkm 255 (rmi 159) (−83.36 longitude, 36.43 latitude) immediately below Grissom Island, Hancock County, Tennessee, upstream to its confluence with Indian Creek

in Cedar Bluff, Tazewell County, Virginia (−81.80 longitude, 37.10 latitude); Copper Creek in Scott County, Virginia, from its confluence with the Clinch River (−82.74 longitude, 36.67 latitude) upstream to Virginia State Route 72 (−82.56 longitude, 36.68 latitude); and Indian Creek from its confluence with the Clinch River upstream to the fourth Norfolk Southern Railroad crossing at Van Dyke, Tazewell County, Virginia (−81.77 longitude, 37.14 latitude).

(B) Map of Unit 5 follows:

Unit 5 - Clinch River: Critical Habitat for Purple bean, Cumberlandian combshell, Oyster mussel, and Rough rabbitsfoot.



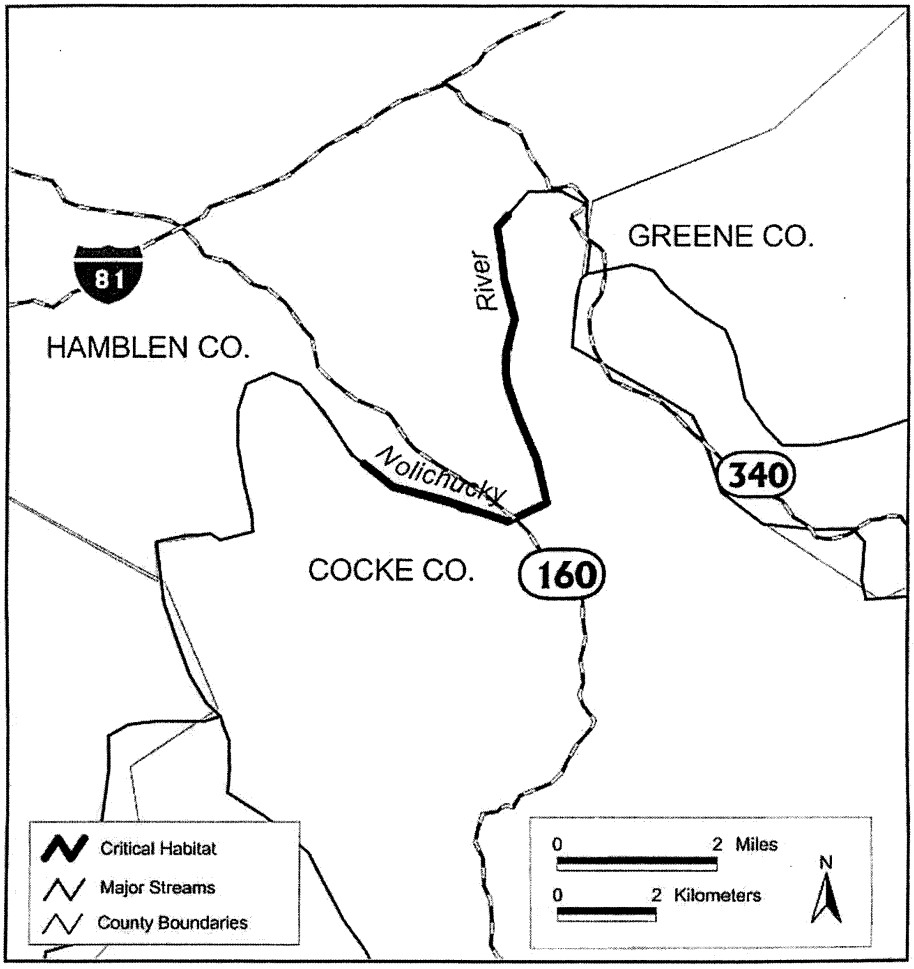
This map is provided for illustrative purposes of critical habitat only. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

(viii) Unit 6. Nolichucky River, Hamblen and Cocke Counties, Tennessee. This is a critical habitat unit for the Cumberlandian combshell and oyster mussel.

(A) Unit 6 consists of the main stem of the Nolichucky River from rkm 14 (rmi 9) (−83.18 longitude, 36.18 latitude) (approximately 0.6 rkm (0.4 rmi) upstream of Enka Dam) upstream to Susong Bridge (−83.20 longitude, 36.14 latitude) in Hamblen and Cocke Counties, Tennessee.

(B) Map of Unit 6 follows:

Unit 6 - Nolichucky River: Critical Habitat for Cumberlandian combshell and Oyster mussel



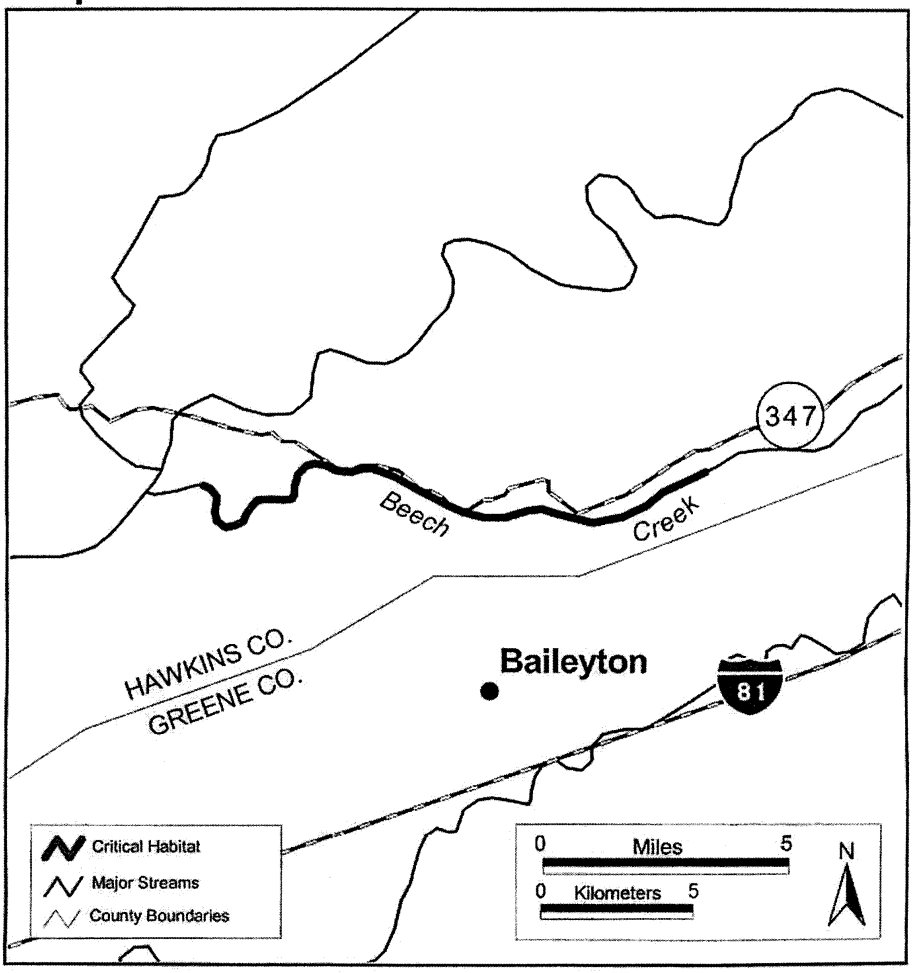
This map is provided for illustrative purposes of critical habitat only. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

(ix) Unit 7. Beech Creek, Hawkins County, Tennessee. This is a critical habitat unit for the purple bean.

(A) Unit 7 includes the Beech Creek main stem from rkm 4 (rmi 2) (−82.92 longitude, 36.40 latitude) of Beech Creek (in the vicinity of Slide, Tennessee) upstream to the dismantled railroad bridge at rkm 27 (rmi 16) (−82.77 longitude, 36.40 latitude).

(B) Map of Unit 7 follows:

Unit 7 - Beech Creek: Critical Habitat for Purple bean



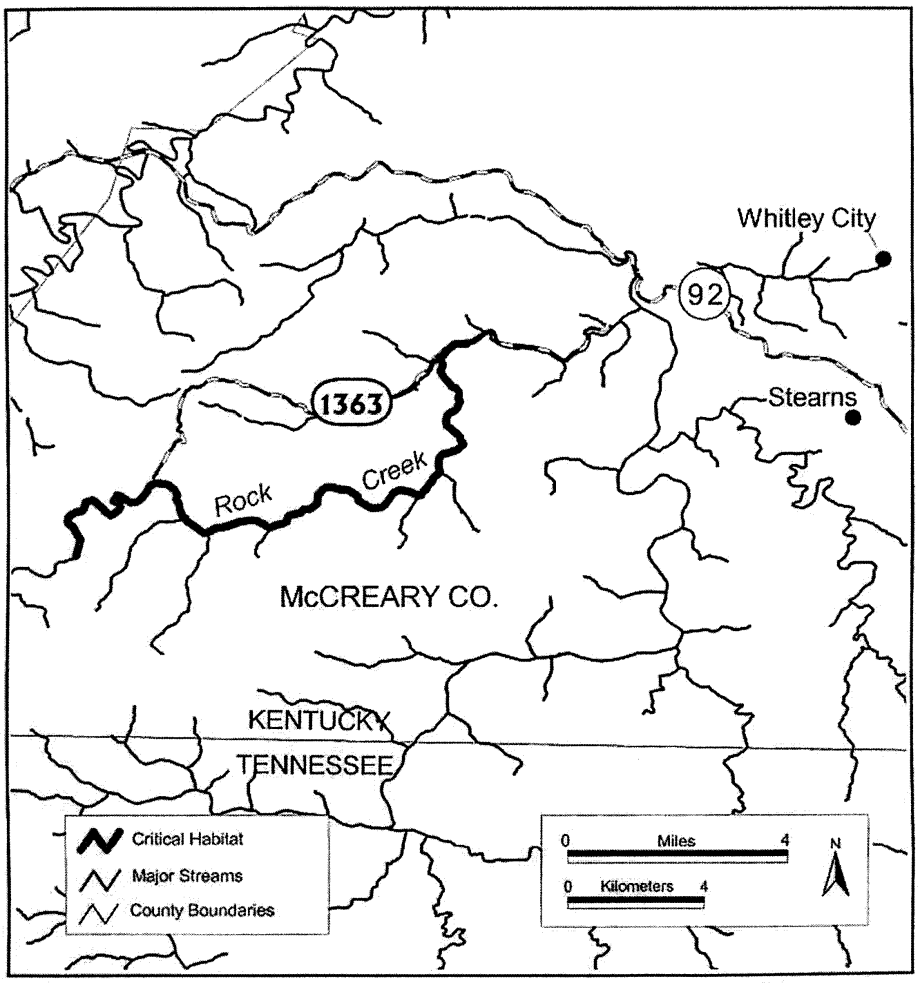
This map is provided for illustrative purposes of critical habitat only. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

(x) Unit 8. Rock Creek, McCreary County, Kentucky. This is a critical habitat unit for the Cumberland elktoe.

(A) Unit 8 includes the main stem of Rock Creek from its confluence with White Oak Creek (−84.59 longitude, 36.71 latitude), upstream to the low-water crossing at rkm 25.6 (rmi 15.9) approximately 2.6 km (1.6 mi) southwest of Bell Farm (−84.69 longitude, 36.65 latitude), McCreary County, Kentucky.

(B) Map of Unit 8 follows:

Unit 8 - Rock Creek: Critical Habitat for Cumberland elktoe



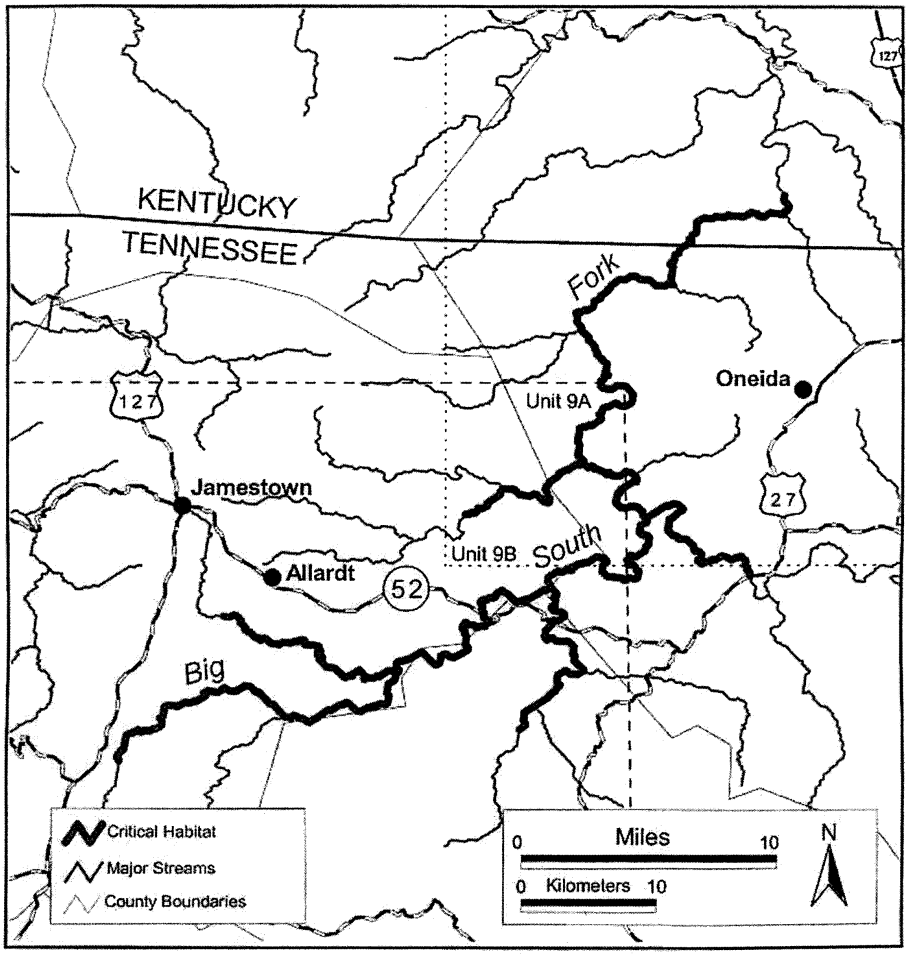
This map is provided for illustrative purposes of critical habitat only. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

(xi) Unit 9. Big South Fork of the Cumberland River and its tributaries, Fentress, Morgan, and Scott Counties, Tennessee, and McCreary County, Kentucky. This is a critical habitat unit for the Cumberlandian combshell, Cumberland elktoe, and oyster mussel.

(A) Unit 9 consists of the Big South Fork of the Cumberland River main stem from its confluence with Laurel Crossing Branch (−84.54 longitude, 36.64 latitude), McCreary County, Kentucky, upstream to its confluence with the New River and Clear Fork, Scott County, Tennessee; North White Oak Creek from its confluence with the Big South Fork upstream to Panther Branch (−84.75 longitude, 36.42 latitude), Fentress County, Tennessee; New River from its confluence with Clear Fork upstream to U.S. Highway 27 (−84.55 longitude, 36.38 latitude), Scott County, Tennessee; Clear Fork from its confluence with the New River upstream to its confluence with North Prong Clear Fork, Morgan and Fentress Counties, Tennessee; White Oak Creek from its confluence with Clear Fork upstream to its confluence with Bone Camp Creek, Morgan County, Tennessee; Bone Camp Creek from its confluence with White Oak Creek upstream to Massengale Branch (−84.71 longitude, 36.28 latitude), Morgan County, Tennessee; Crooked Creek from its confluence with Clear Fork upstream to Buttermilk Branch (−84.92 longitude, 36.36 latitude), Fentress County, Tennessee; and North Prong Clear Fork from its confluence with Clear Fork upstream to Shoal Creek (−84.97 longitude, 36.26 latitude), Fentress County, Tennessee.

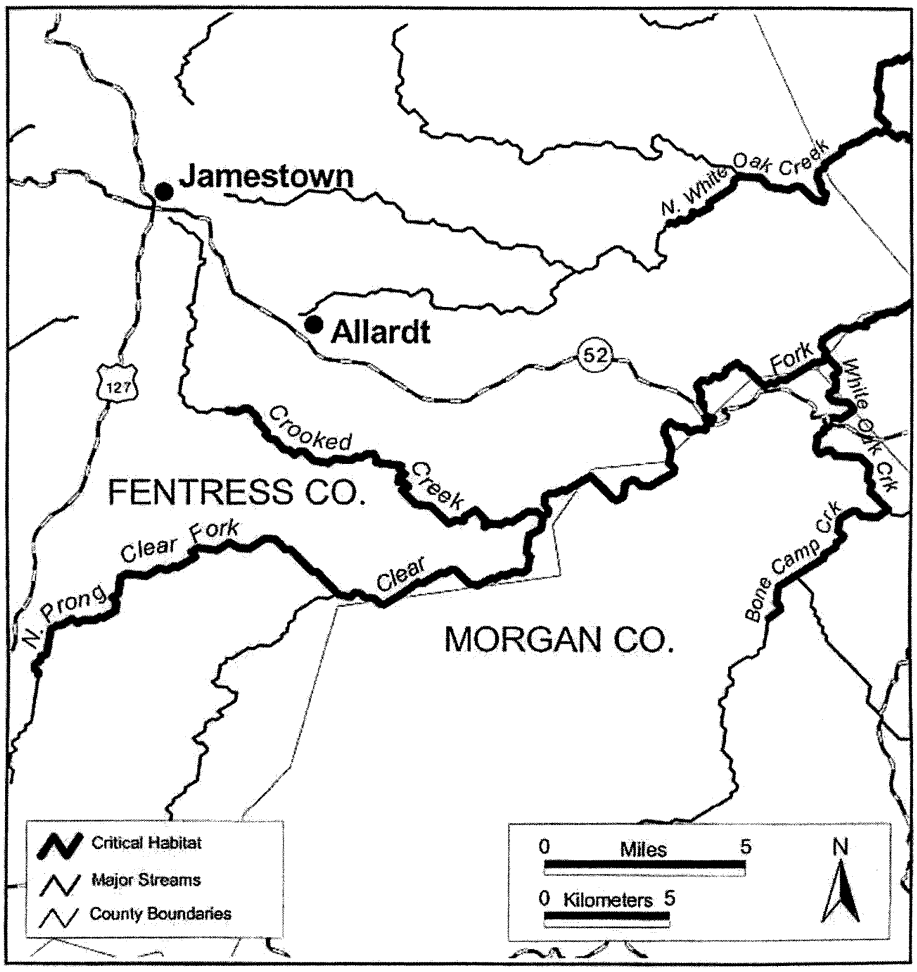
(B) Maps of Unit 9 follow:

Unit 9 - Big South Fork: Critical Habitat for Cumberlandian combshell, Cumberland elktoe, and Oyster mussel



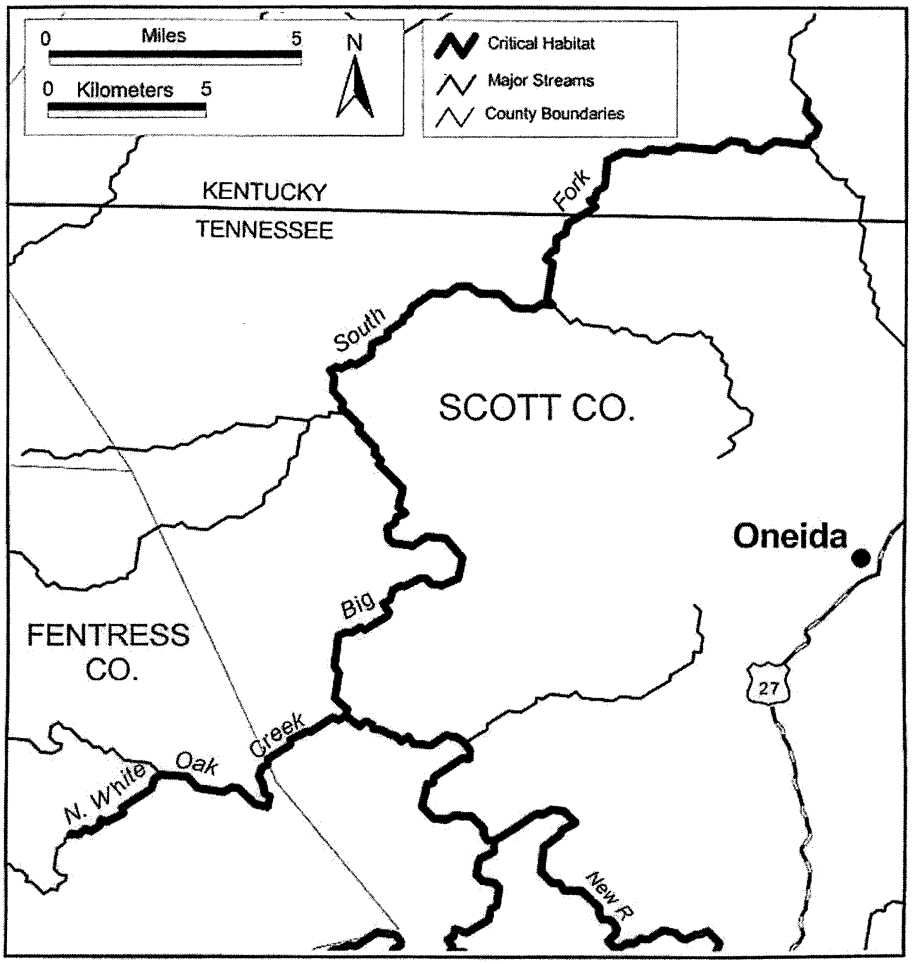
This map is provided for illustrative purposes of critical habitat only. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

Unit 9A - Big South Fork: Critical Habitat for Cumberlandian combshell, Cumberland elktoe, and Oyster mussel



This map is provided for illustrative purposes of critical habitat only. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

Unit 9B - Big South Fork: Critical Habitat for Cumberlandian combshell, Cumberland elktoe, and Oyster mussel



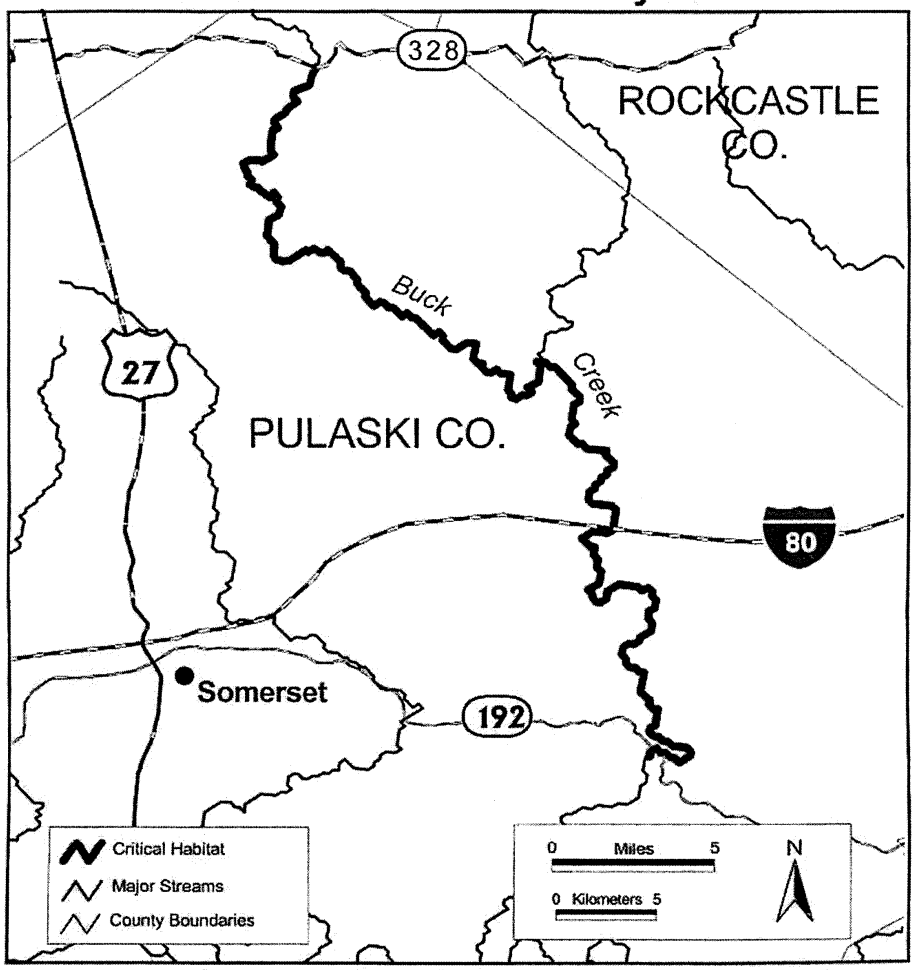
This map is provided for illustrative purposes of critical habitat only. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

(xii) Unit 10. Buck Creek, Pulaski County, Kentucky. This is a critical habitat unit for the Cumberlandian combshell and oyster mussel.

(A) Unit 10 includes the Buck Creek main stem from the State Road 192 Bridge (−84.43 longitude, 37.06 latitude) upstream to the State Road 328 Bridge (−84.56 longitude, 37.32 latitude) in Pulaski County, Kentucky.

(B) Map of Unit 10 follows:

Unit 10 - Buck Creek: Critical Habitat for Cumberlandian combshell and Oyster mussel



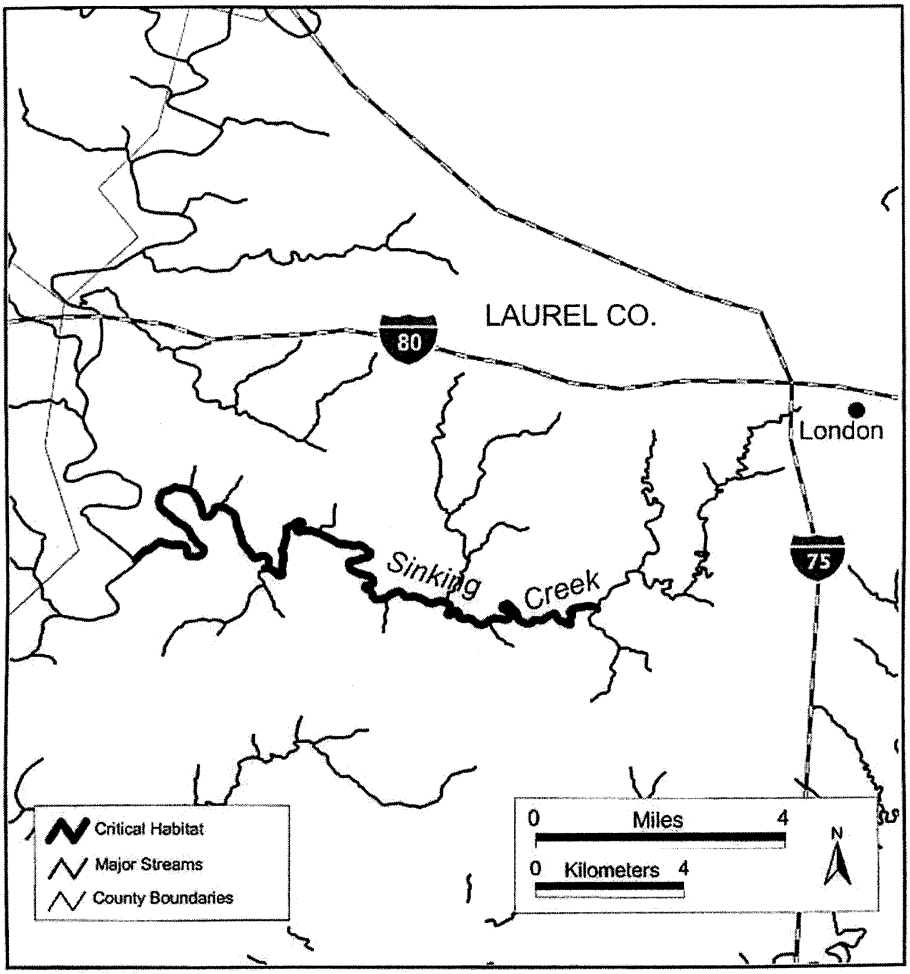
This map is provided for illustrative purposes of critical habitat only. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

(xiii) Unit 11. Sinking Creek, Laurel County, Kentucky. This is a critical habitat unit for the Cumberland elktoe.

(A) Unit 11 includes the main stem of Sinking Creek from its confluence with the Rockcastle River (−84.28 longitude, 37.10 latitude) upstream to its confluence with Laurel Branch (−84.17 longitude, 37.09 latitude) in Laurel County, Kentucky.

(B) Map of Unit 11 follows:

Unit 11 - Sinking Creek: Critical Habitat for Cumberland elktoe



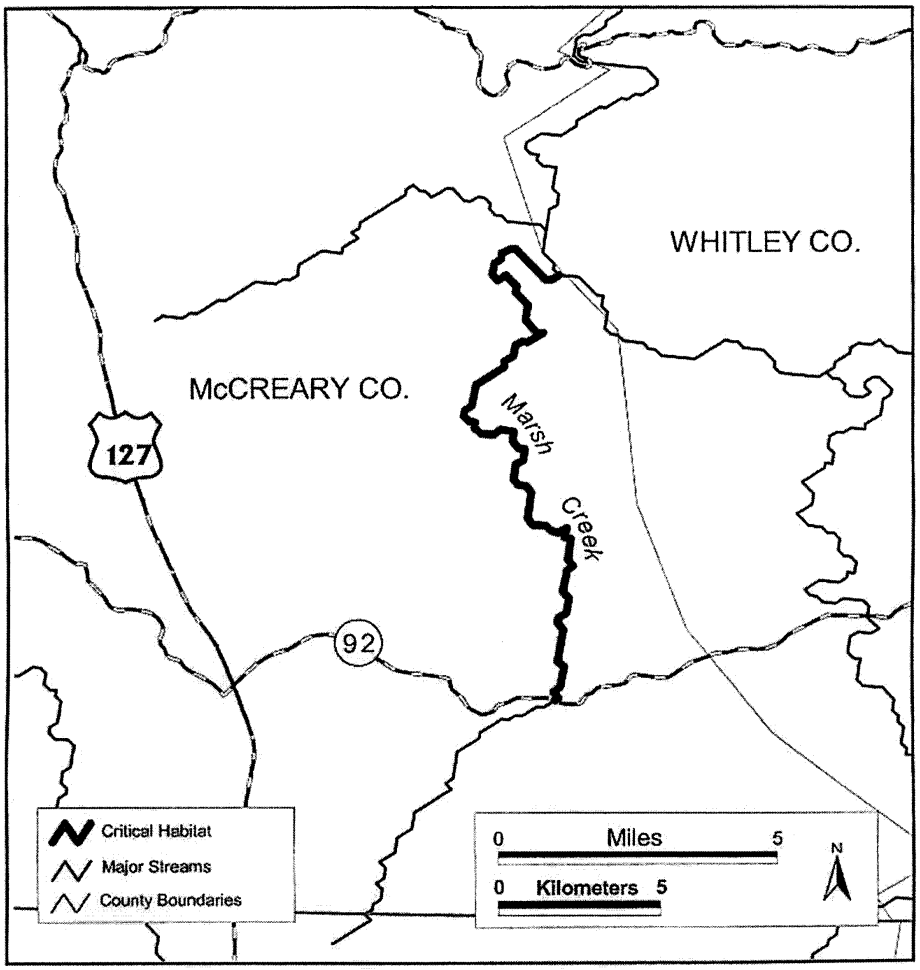
This map is provided for illustrative purposes of critical habitat only. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

(xiv) Unit 12. Marsh Creek, McCreary County, Kentucky. This is a critical habitat unit for the Cumberland elktoe.

(A) Unit 12 includes the Marsh Creek main stem from its confluence with the Cumberland River (−84.35 longitude, 36.78 latitude) upstream to State Road 92 Bridge (−84.35 longitude, 36.66 latitude) in McCreary County, Kentucky.

(B) Map of Unit 12 follows:

Unit 12 - Marsh Creek: Critical Habitat for Cumberland elktoe



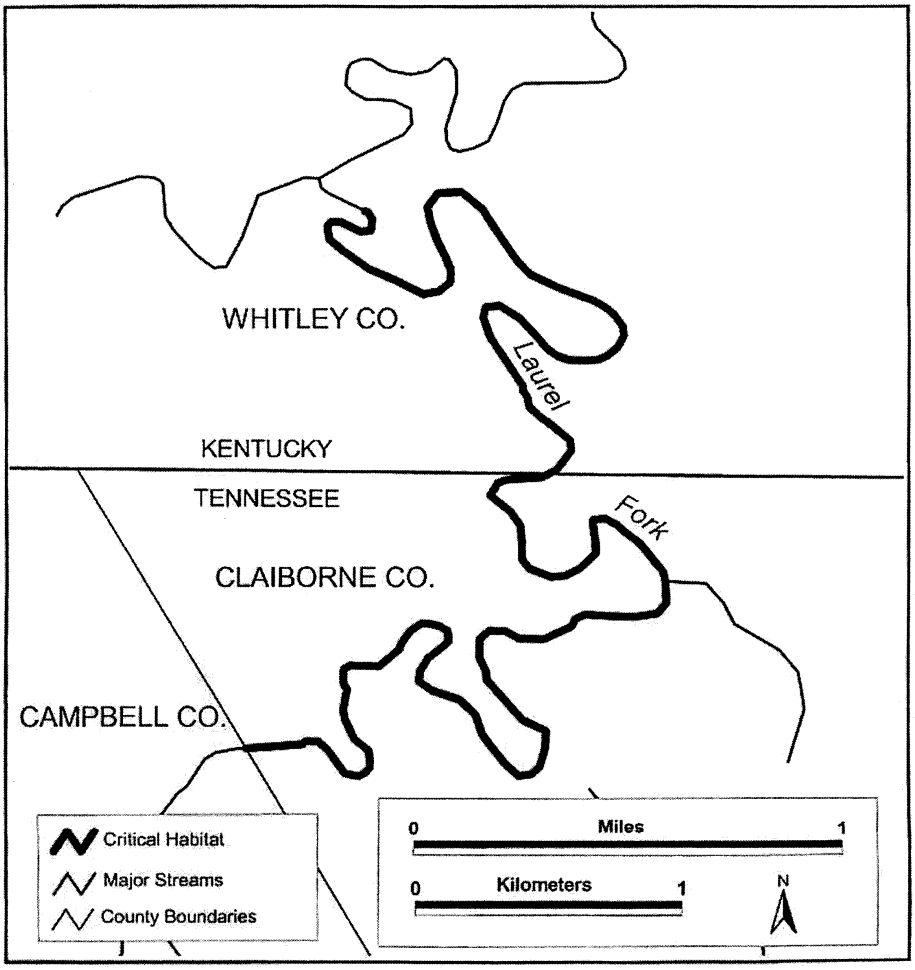
This map is provided for illustrative purposes of critical habitat only. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

(xv) Unit 13. Laurel Fork, Claiborne County, Tennessee, and Whitley County, Kentucky. This is a critical habitat unit for the Cumberland elktoe.

(A) Unit 13 includes the main stem of the Laurel Fork of the Cumberland River from the boundary between Claiborne and Campbell Counties (−84.00 longitude, 36.58 latitude) upstream to rkm 11 (rmi 6.85) in Whitley County, Kentucky. The upstream terminus is 3 rkm (2 rmi) upstream of the Kentucky/Tennessee State line (−84.00 longitude, 36.60 latitude).

(B) Map of Unit 13 follows:

Unit 13 - Laurel Fork: Critical Habitat for Cumberland elktoe



This map is provided for illustrative purposes of critical habitat only. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

SEVEN MUSSEL SPECIES (IN FOUR NORTHEAST GULF OF MEXICO DRAINAGES): PURPLE BANKCLIMBER (*Elliptoideus sloatianus*), GULF MOCCASINSHELL (*Medionidus penicillatus*), OCHLOCKONEE MOCCASINSHELL (*Medionidus simpsonianus*), OVAL PIGTOE (*Pleurobema pyriforme*), SHINYRAYED POCKETBOOK (*Lampsilis subangulata*), CHIPOLA SLABSHELL (*Elliptio chipolaensis*), AND FAT THREERIDGE (*Amblema neislerii*).

(1) Critical habitat units are depicted on the maps below for the following counties:

(i) *Alabama:* Houston and Russell;

(ii) *Florida:* Alachua, Bay, Bradford, Calhoun, Columbia, Franklin, Gadsden, Gulf, Jackson, Leon, Liberty, Union, Wakulla, and Washington; and

(iii) *Georgia:* Baker, Calhoun, Coweta, Crawford, Crisp, Decatur, Dooly, Dougherty, Early, Fayette, Grady, Lee, Macon, Marion, Meriwether, Miller, Mitchell, Peach, Pike, Schley, Spalding, Sumter, Talbot, Taylor, Terrell, Thomas, Upson, Webster, and Worth.

(2) The primary constituent elements of critical habitat for the purple bankclimber (*Elliptoideus sloatianus*), Gulf moccasinshell (*Medionidus penicillatus*), Ochlockonee moccasinshell (*Medionidus simpsonianus*), oval pigtoe (*Pleurobema pyriforme*), shinyrayed pocketbook (*Lampsilis subangulata*), Chipola slabshell (*Elliptio chipolaensis*), and fat threeridge (*Amblema neislerii*) are:

(i) A geomorphically stable stream channel (a channel that maintains its lateral dimensions, longitudinal profile, and spatial pattern over time without a consistent aggrading or degrading bed elevation);

(ii) A predominantly sand, gravel, and/or cobble stream substrate with low to moderate amounts of silt and clay;

(iii) Permanently flowing water;

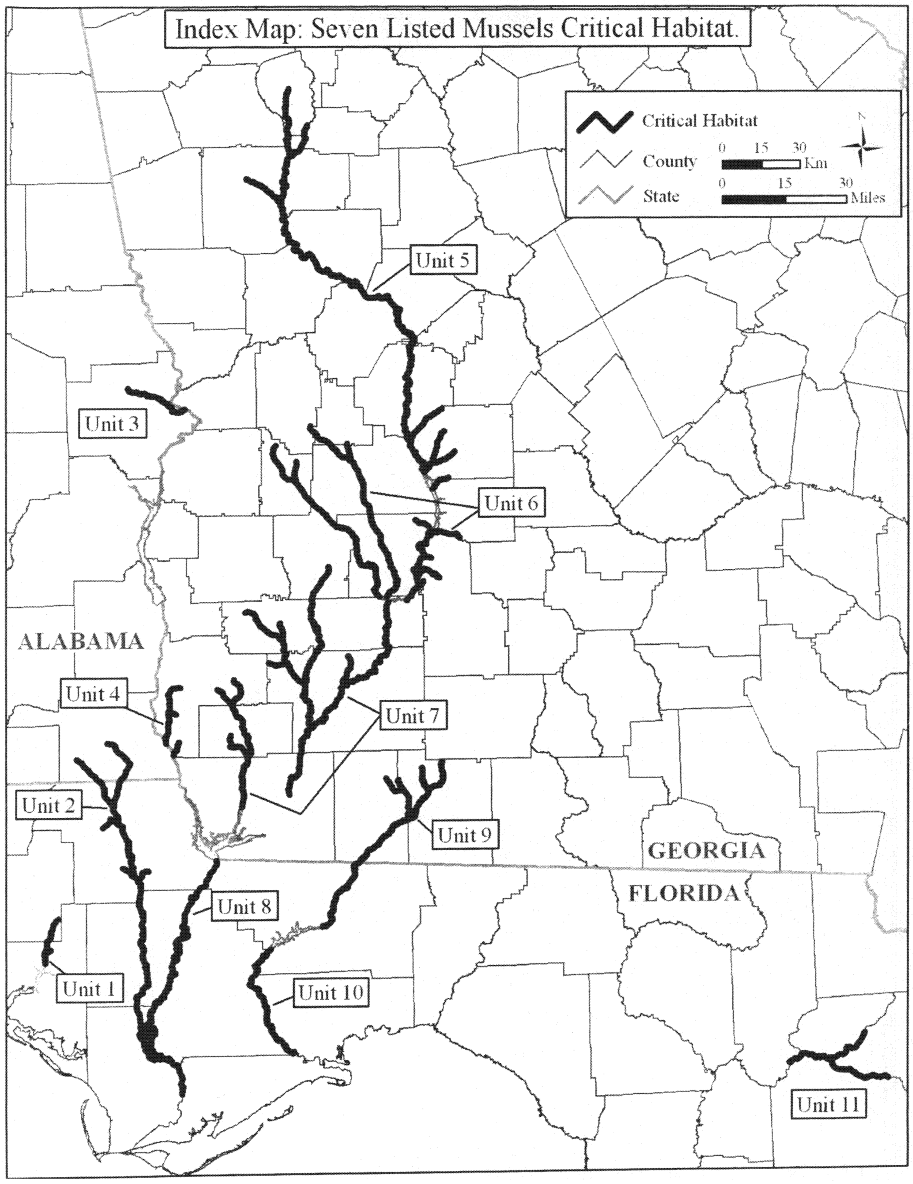
(iv) Water quality (including temperature, turbidity, dissolved oxygen, and chemical constituents) that meets or exceeds the current aquatic life criteria established under the Clean Water Act (33 U.S.C. 1251–1387); and

(v) Fish hosts (such as largemouth bass, sailfin shiner, brown darter) that support the larval life stages of the seven mussels.

(3) Critical habitat does not include man-made structures (such as buildings, aqueducts, airports, roads, and other paved areas) and the land on which they are located existing within the legal boundaries on the effective date of this rule and not containing one or more of the primary constituent elements.

(4) Critical habitat unit maps. Data layers defining map units were created with USGS National Hydrography Dataset (NHD) GIS data. The 1:100,000 river reach (route) files were used to calculate river kilometers and miles. The following data sources were referenced to identify upstream and downstream extents of critical habitat units: USGS 7.5' quadrangles; Georgia Department of Transportation county highway maps; U.S. Census Bureau 1:100,000 TIGER line road data; 1993 Georgia digital orthographic quarter quads (DOQQs); 2004 Florida DOQQs; and DeLorme Atlas and Gazetteers for Alabama, Florida, and Georgia. The projection used in mapping all units was Universal Transverse Mercator (UTM), NAD 83, Zone 16 North.

(5) Note: Index map of critical habitat units in the States of Alabama, Florida, and Georgia for the seven mussels follows:



(6) Table of listed species and critical habitat units. A table showing the listed species, their respective critical habitat units, and the States that contain those habitat units follows. Detailed critical habitat unit descriptions and maps appear below in paragraphs (7) through (17).

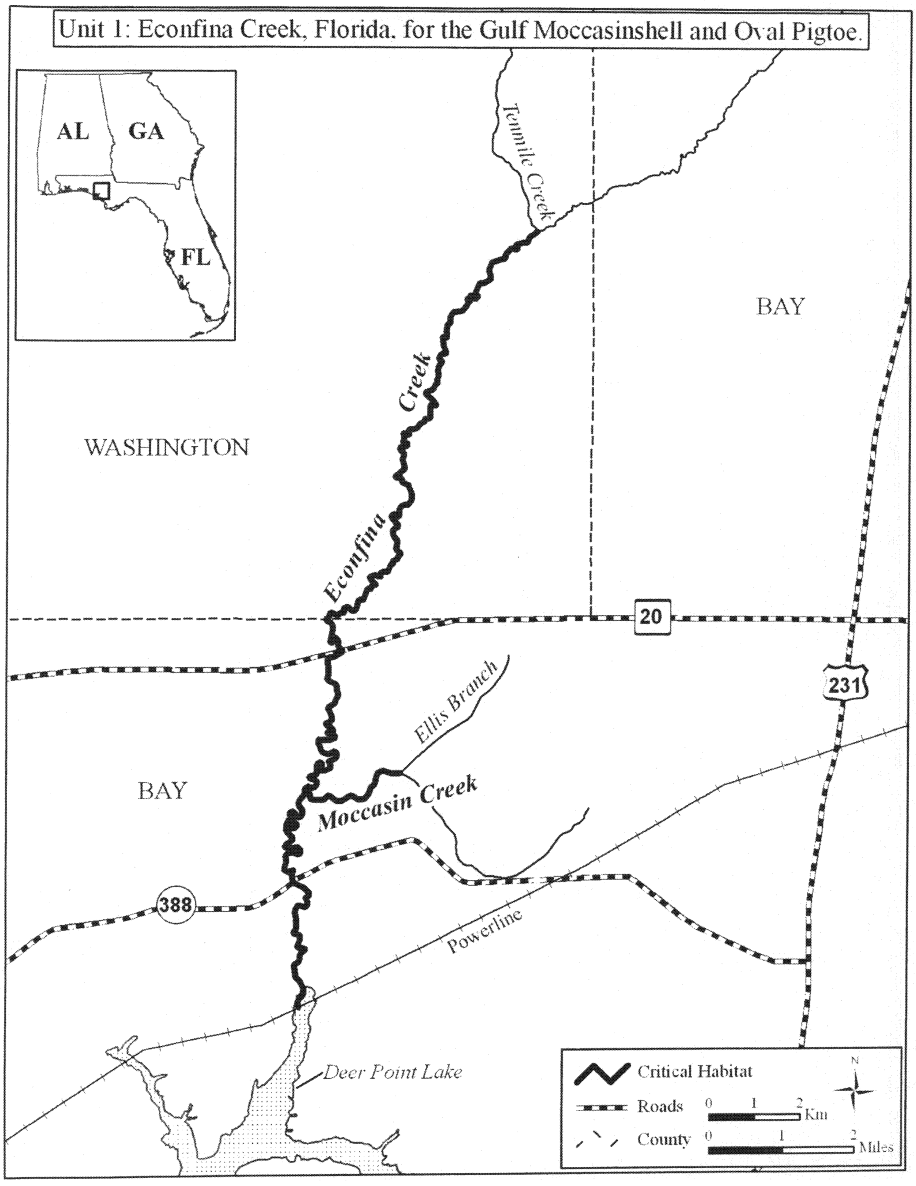
Species	Critical habitat units	States
Purple bankclimber (*Elliptoideus sloatianus*)	Units 5, 6, 7, 8, 9, 10	AL, FL, GA

Species	Critical habitat units	States
Gulf moccasinshell (*Medionidus penicillatus*)	Units 1, 2, 4, 5, 6, 7	AL, FL, GA
Ochlockonee moccasinshell (*Medionidus simpsonianus*)	Unit 9	FL, GA
Oval pigtoe (*Pleurobema pyriforme*)	Units 1, 2, 4, 5, 6, 7, 9, 11	AL, FL, GA
Shinyrayed pocketbook (*Lampsilis subangulata*)	Units 2, 3, 4, 5, 6, 7, 9	AL, FL, GA
Chipola slabshell (*Elliptio chipolaensis*)	Unit 2	AL, FL
Fat threeridge (mussel) (*Amblema neislerii*)	Units 2, 7, 8	AL, FL, GA

(7) Unit 1. Econfina and Moccasin creeks, Bay and Washington Counties, Florida. This is a critical habitat unit for the Gulf moccasinshell and oval pigtoe.

(i) *General Description:* Unit 1 includes the main stem of Econfina Creek and one of its tributaries, Moccasin Creek, encompassing a total stream length of 31.4 kilometers (km) (19.5 miles (mi)). The main stem of Econfina Creek extends from its confluence with Deer Point Lake at the powerline crossing located 3.8 km (2.3 mi) downstream of Bay County Highway 388 (−85.56 longitude, 30.36 latitude), Bay County, Florida, upstream 28.6 km (17.8 mi) to Tenmile Creek (−85.50 longitude, 30.51 latitude), Washington County, Florida; and Moccasin Creek from its confluence with Econfina Creek upstream 2.8 km (1.7 mi) to Ellis Branch (−85.53 longitude, 30.41 latitude), Bay County, Florida.

(ii) Note: Unit 1 map follows:

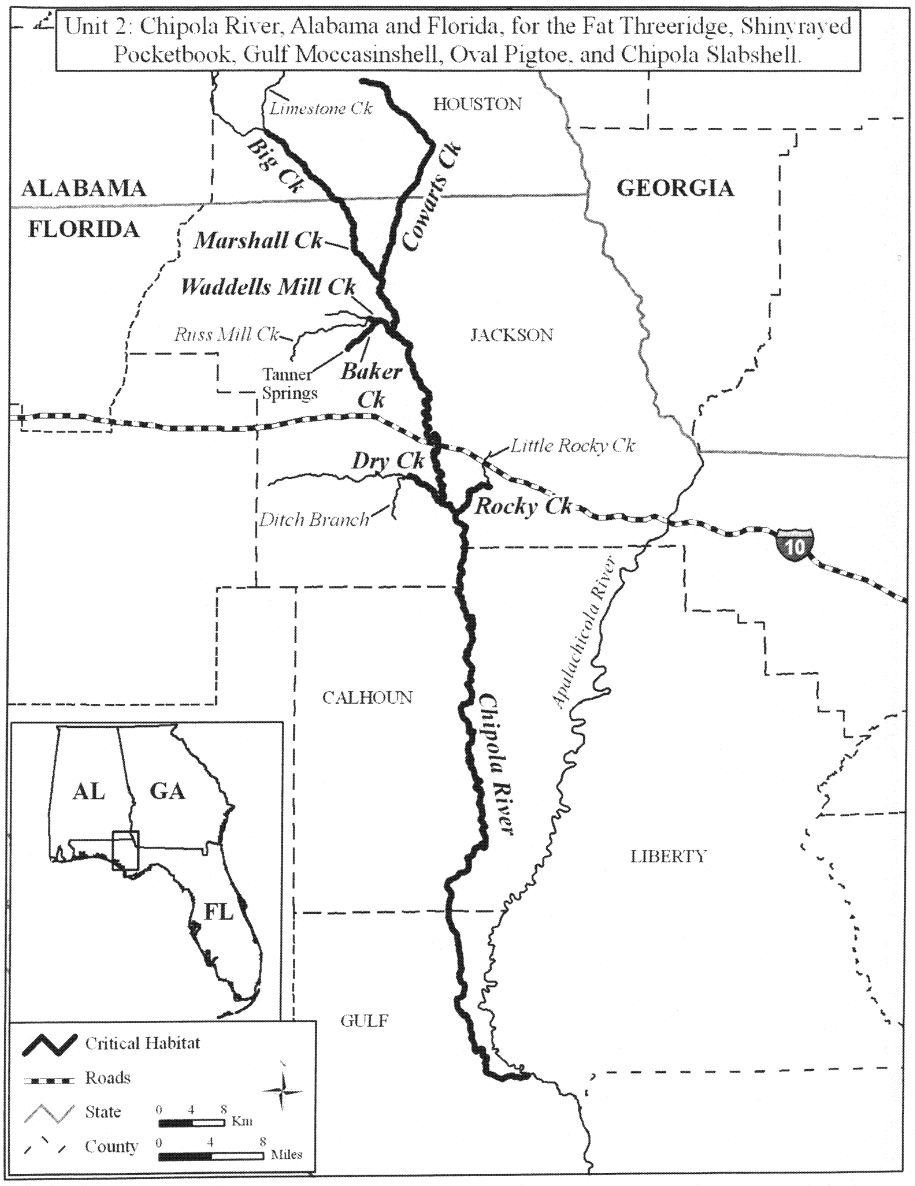


(8) Unit 2. Chipola River and Dry, Rocky, Waddells Mill, Baker, Marshall, Big, and Cowarts Creeks in Houston County, Alabama, and in Calhoun, Gulf, and Jackson counties, Florida. This is a critical habitat unit for the fat threeridge, shinyrayed pocketbook, Gulf moccasinshell, oval pigtoe, and Chipola slabshell.

(i) *General Description:* Unit 2 includes the main stem of the Chipola River and seven of its tributaries, encompassing a total stream length of 228.7 km (142.1 mi). The main stem

of the Chipola River extends from its confluence with the Apalachicola River (−85.09 longitude, 30.01 latitude) in Gulf County, Florida, upstream 144.9 river km (90.0 river mi), including the reach known as Dead Lake, to the confluence of Marshall and Cowarts creeks (−85.27 longitude, 30.91 latitude) in Jackson County, Florida; Dry Creek from the Chipola River upstream 7.6 river km (4.7 river mi) to Ditch Branch (−85.24 longitude, 30.69 latitude), Jackson County, Florida; Rocky Creek from the Chipola River upstream 7.1 river km (4.4 river mi) to Little Rocky Creek (−85.13 longitude, 30.68 latitude), Jackson County, Florida; Waddells Mill Creek from the Chipola River upstream 3.7 river km (2.3 river mi) to Russ Mill Creek (−85.29 longitude, 30.87 latitude), Jackson County, Florida; Baker Creek from Waddells Mill Creek upstream 5.3 river km (3.3 river mi) to Tanner Springs (−85.32 longitude, 30.83 latitude), Jackson County, Florida; Marshall Creek from the Chipola River upstream 13.7 river km (8.5 river mi) to the Alabama–Florida State line (−85.33 longitude, 31.00 latitude), Jackson County, Florida; Cowarts Creek from the Chipola River in Jackson County, Florida, upstream 33.5 river km (20.8 river mi) to the Edgar Smith Road bridge (−85.29 longitude, 31.13 latitude), Houston County, Alabama; and Big Creek from the Alabama–Florida State line upstream 13.0 river km (8.1 river mi) to Limestone Creek (−85.42 longitude, 31.08 latitude), Houston County, Alabama. The short segment of the Chipola River that flows underground within the boundaries of Florida Caverns State Park is not included within this unit.

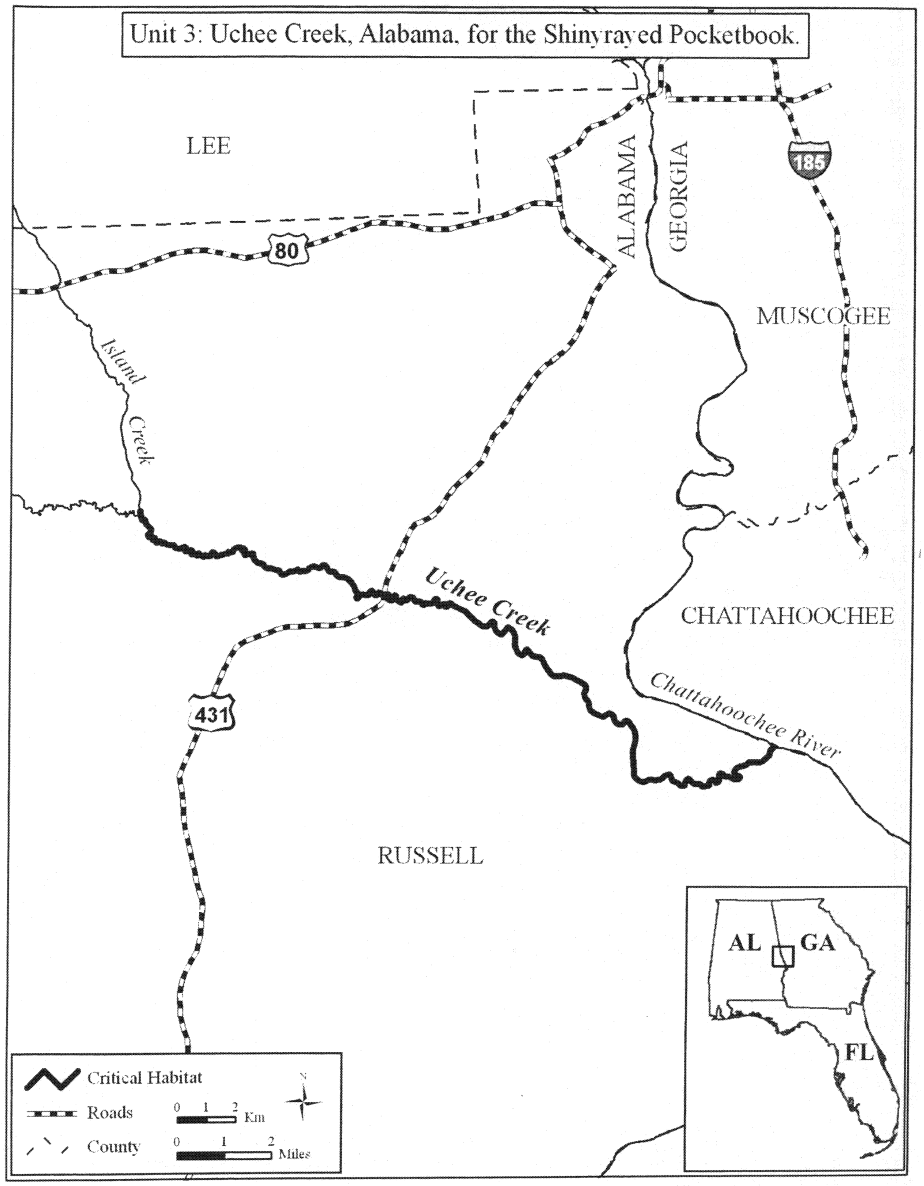
(ii) Note: Unit 2 map follows:



(9) Unit 3. Uchee Creek, Russell County, Alabama. This is a critical habitat unit for the shinyrayed pocketbook.

(i) *General Description:* Unit 3 includes the main stem of Uchee Creek from its confluence with the Chattahoochee River upstream 34.2 km (21.2 mi) to Island Creek (−85.18 longitude, 32.38 latitude), Russell County, Alabama, encompassing a total stream length of 34.2 km (21.2 mi).

(ii) Note: Unit 3 map follows:

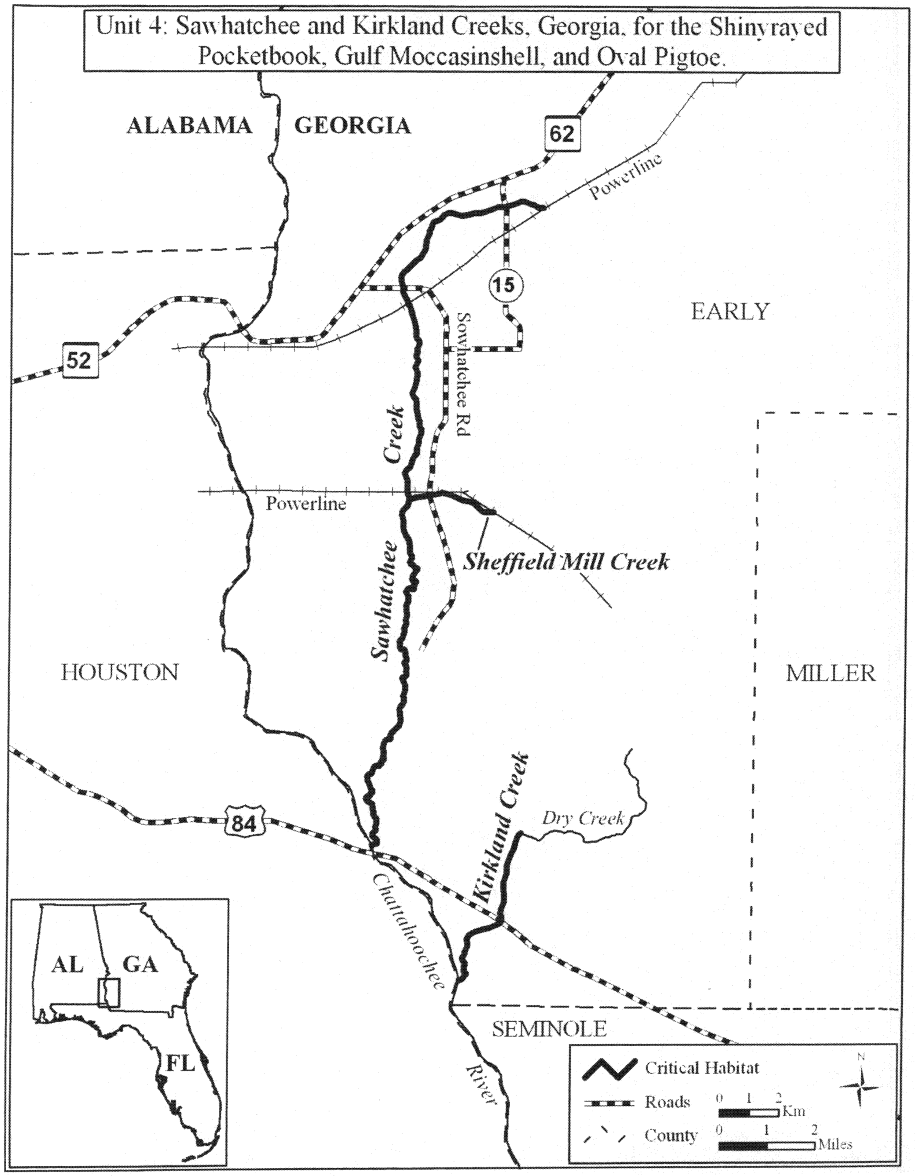


(10) Unit 4. Sawhatchee, Sheffield Mill, and Kirkland creeks, Early County, Georgia. This is a critical habitat unit for the shinyrayed pocketbook, Gulf moccasinshell, and oval pigtoe.

(i) *General Description:* Unit 4 includes the main stems of Sawhatchee and Kirkland creeks, and one tributary, encompassing a total stream length of 37.8 km (23.5 mi). Unit 4 includes Sawhatchee Creek from its confluence with the Chattahoochee River upstream 28.6 km (17.8 mi) to the powerline crossing located 1.4 km (0.87 mi) upstream of Early County Road 15 (−84.99 longitude, 31.32

latitude); Sheffield Mill Creek, the tributary, from its confluence with Sawhatchee Creek upstream 3.1 km (1.9 mi) to the powerline crossing located 2.3 km (1.4 mi) upstream of Sowhatchee Road (−85.01 longitude, 31.23 latitude); Kirkland Creek from its confluence with the Chattahoochee River upstream 6.1 km (3.8 mi) to Dry Creek (−85.00 longitude, 31.13 latitude).

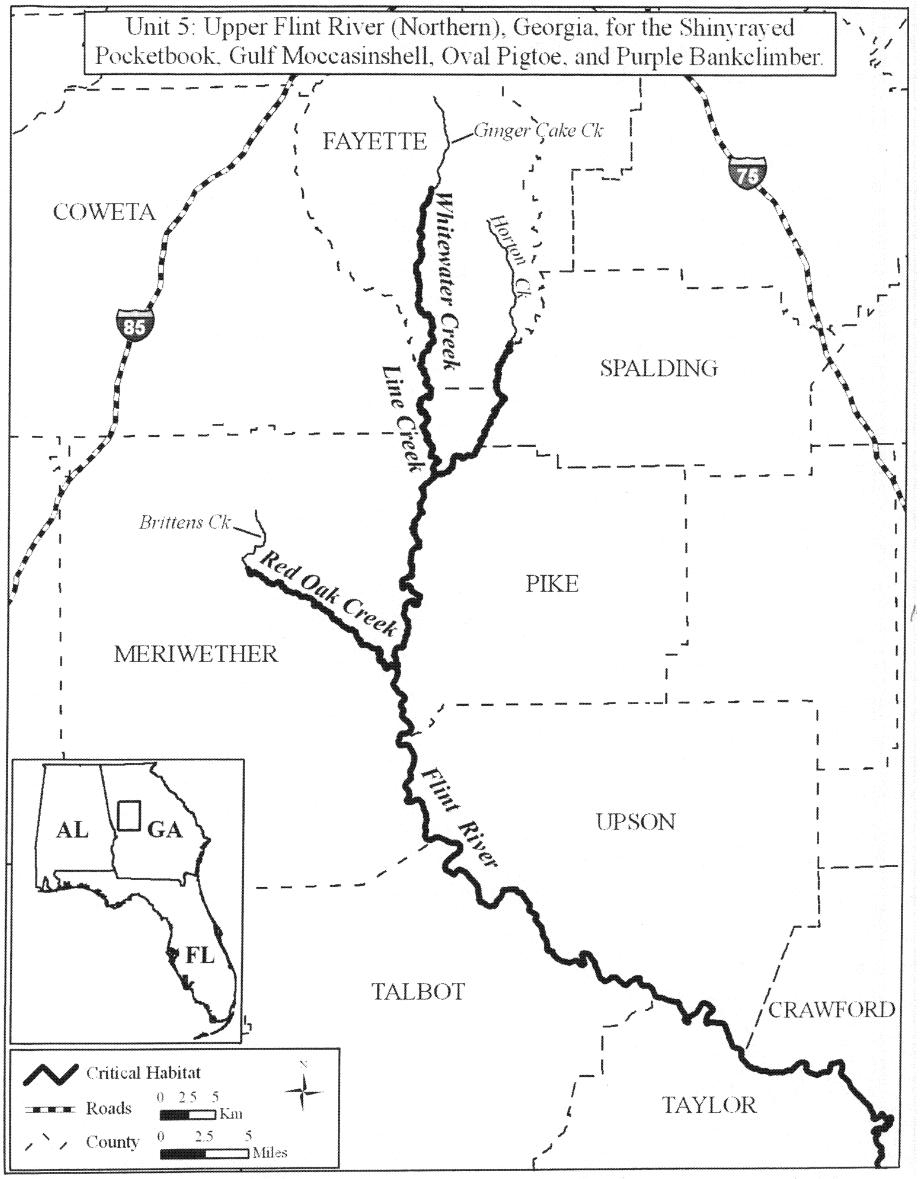
(ii) Note: Unit 4 map follows:

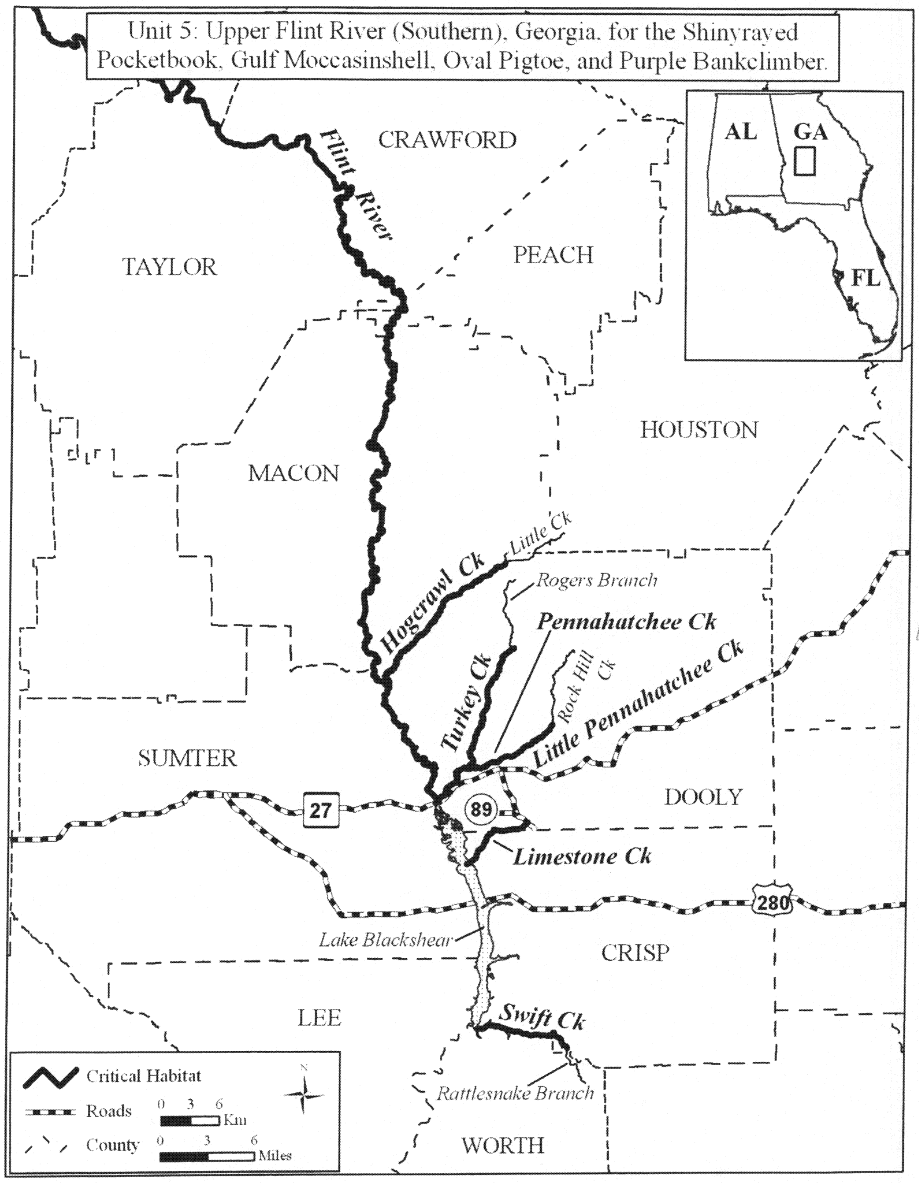


(11) Unit 5. Upper Flint River and Swift, Limestone, Turkey, Pennahatchee, Little Pennahatchee, Hogcrawl, Red Oak, Line, and Whitewater creeks in Coweta, Crawford, Crisp, Dooly, Fayette, Macon, Meriwether, Peach, Pike, Spalding, Sumter, Talbot, Taylor, Upson, and Worth counties, Georgia. This is a critical habitat unit for the shinyrayed pocketbook, Gulf moccasinshell, oval pigtoe, and purple bankclimber.

(i) *General Description:* Unit 5 encompasses a total stream length of 380.4 km (236.4 mi) and includes the Flint River from the State Highway 27 bridge (Vienna Road) (−83.98 longitude, 32.06 latitude) in Dooly and Sumter counties, Georgia (the river is the county boundary), upstream 247.4 km (153.7 mi) through Macon, Peach, Taylor, Crawford, Talbot, Upson, Pike, Meriwether, and Coweta counties, to Horton Creek (−84.42 longitude, 33.29 latitude) in Fayette and Spalding counties, Georgia (the river is the county boundary); Swift Creek from Lake Blackshear upstream 11.3 km (7 mi) to Rattlesnake Branch (−83.84 longitude, 31.82 latitude), Crisp and Worth counties, Georgia (the creek is the county boundary); Limestone Creek from Lake Blackshear, Crisp County, Georgia, upstream 8.8 km (5.5 mi) to County Road 89 (−83.88 longitude, 32.04 latitude), Dooly County, Georgia; Turkey Creek from the Flint River upstream 21.7 km (13.5 mi) to Rogers Branch (−83.89 longitude, 32.20 latitude), in Dooly County, Georgia; Pennahatchee Creek from Turkey Creek upstream 4.8 km (3 mi) to Little Pennahatchee Creek (−83.89 longitude, 32.10 latitude), Dooly County, Georgia; Little Pennahatchee Creek from Pennahatchee Creek upstream 5.8 km (3.6 mi) to Rock Hill Creek (−83.85 longitude, 32.13 latitude), Dooly County, Georgia; Hogcrawl Creek from the Flint River upstream 21.6 km (13.4 mi) to Little Creek (−83.90 longitude, 32.28 latitude), Dooly and Macon counties, Georgia (the creek is the county boundary); Red Oak Creek from the Flint River upstream 21.7 km (13.5 mi) to Brittens Creek (−84.68 longitude, 33.11 latitude), Meriwether County, Georgia; Line Creek from the Flint River upstream 15.8 km (9.8 mi) to Whitewater Creek (−84.51 longitude, 33.28 latitude), Coweta and Fayette counties, Georgia (the creek is the county boundary); and Whitewater Creek from Line Creek upstream 21.5 km (13.4 mi) to Ginger Cake Creek (−84.49 longitude, 33.42 latitude), Fayette County, Georgia.

(ii) Note: Two maps of unit 5—northern part of unit 5 and—southern part of unit 5 follow:


Unit 5: Upper Flint River (Northern), Georgia, for the Shinyrayed Pocketbook, Gulf Moccasinshell, Oval Pigtoe, and Purple Bankclimber.
FAYETTE
Ginger Cake Ck
COWETA
Whitewater Creek
Horton Ck
75
85
SPALDING
Line Creek
Brittens Ck
Red Oak Creek
PIKE
MERIWETHER
Flint River
UPSON
AL
GA
FL
TALBOT
CRAWFORD
TAYLOR
Critical Habitat
Roads
County
0 2.5 5 Km
0 2.5 5 Miles
N

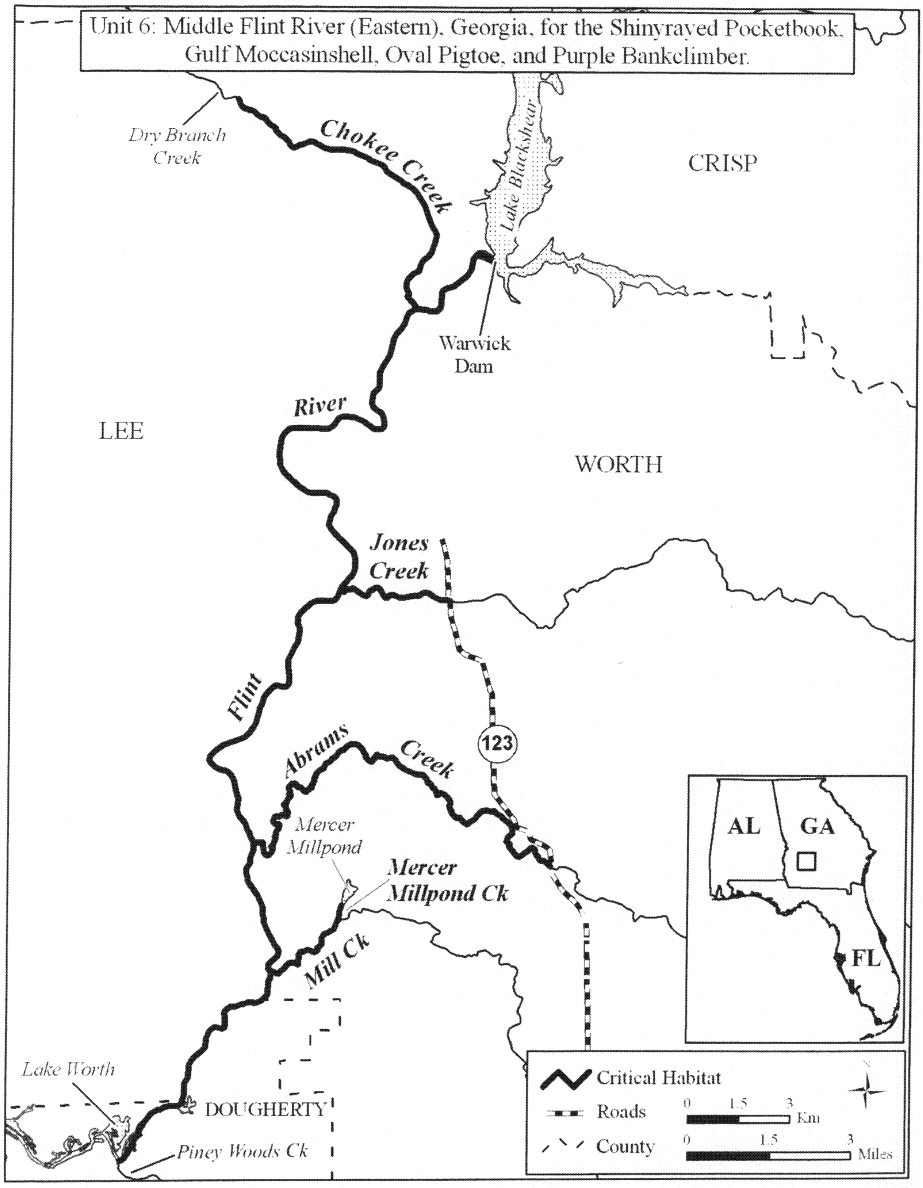


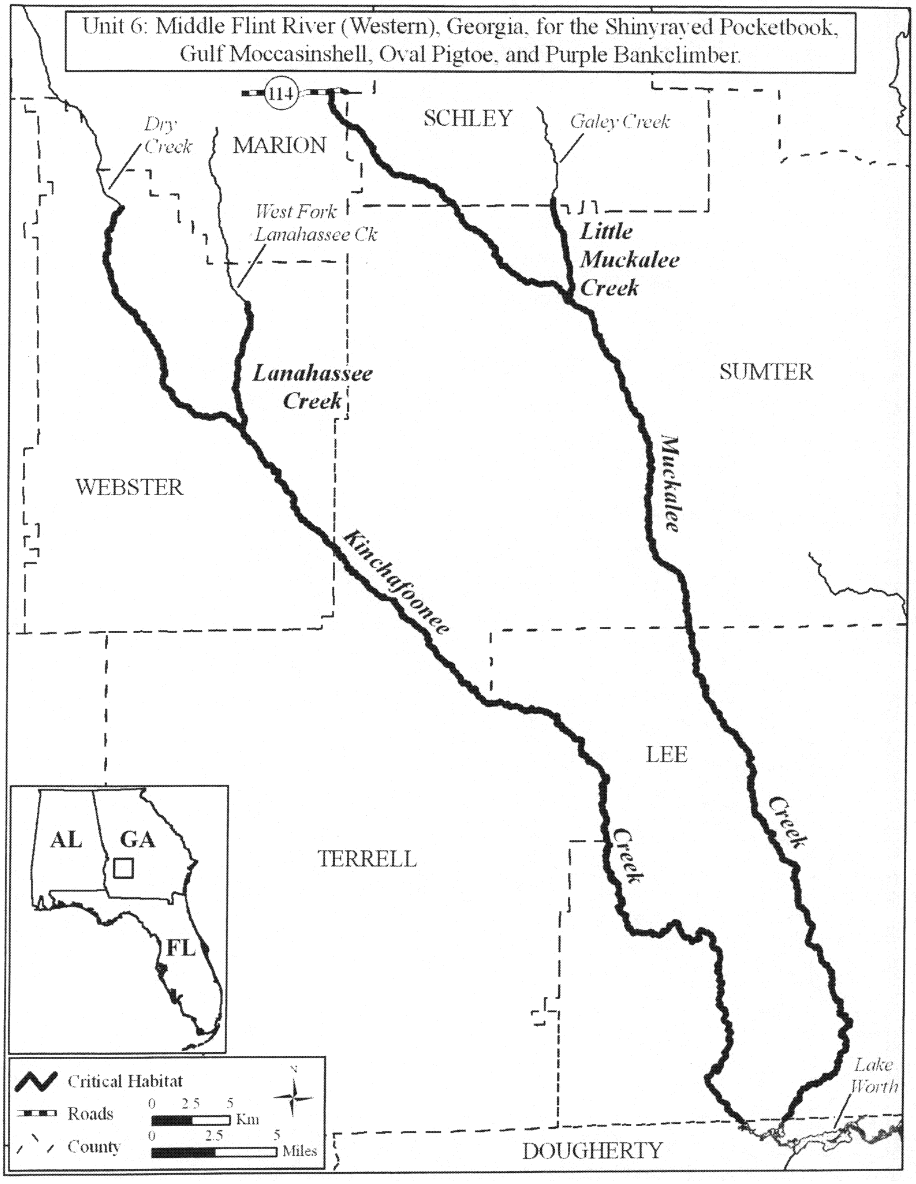
(12) Unit 6. Middle Flint River and Kinchafoonee, Lanahassee, Muckalee, Little Muckalee, Mill, Mercer Mill Pond, Abrams, Jones, and Chokee creeks in Dougherty, Lee, Marion, Schley, Sumter, Terrell, Webster, and Worth counties, Georgia. This is a critical habitat unit for the shinyrayed pocketbook, Gulf moccasinshell, oval pigtoe, and purple bankclimber.

(i) *General Description:* Unit 6 encompasses a total stream length of 302.3 km (187.8 mi) and includes the Flint River from Piney

Woods Creek (−84.06 longitude, 31.61 latitude) in Dougherty County, Georgia (the upstream extent of Lake Worth), upstream 39.9 km (24.8 mi) to the Warwick Dam (−83.94 longitude, 31.85 latitude), Lee and Worth counties, Georgia; Kinchafoonee Creek from its confluence with Lake Worth at the Lee—Dougherty county line (−84.17 longitude, 31.62 latitude), upstream 107.6 km (66.8 mi) through Terrell and Sumter Counties, Georgia, to Dry Creek (−84.58 longitude, 32.17 latitude), Webster County, Georgia; Lanahassee Creek from Kinchafoonee Creek upstream 9.3 km (5.8 mi) to West Fork Lanahassee Creek (−84.50 longitude, 32.11 latitude), Webster County, Georgia; Muckalee Creek, from its confluence with Lake Worth at the Lee—Dougherty county line (−84.14 longitude, 31.62 latitude), upstream 104.5 km (64.9 mi) to County Road 114 (−84.44 longitude, 32.23 latitude), Marion County, Georgia; Little Muckalee Creek, from Muckalee Creek in Sumter County, Georgia, upstream 7.2 km (4.5 mi) to Galey Creek (−84.29 longitude, 32.17 latitude), Schley County, Georgia; Mill Creek from the Flint River upstream 3.2 km (2 mi) to Mercer Millpond Creek (−83.99 longitude, 31.67 latitude), Worth County, Georgia; Mercer Millpond Creek from Mill Creek upstream 0.45 km (0.28 mi) to Mercer Mill Pond (−83.99 longitude, 31.68 latitude), Worth County, Georgia; Abrams Creek from the Flint River upstream 15.9 km (9.9 mi) to County Road 123 (−83.93 longitude, 31.68 latitude), Worth County, Georgia; Jones Creek from the Flint River upstream 3.8 km (2.4 mi) to County Road 123 (−83.96 longitude, 31.76 latitude), Worth County, Georgia; and Chokee Creek, from the Flint River upstream 10.5 km (6.5 mi) to Dry Branch Creek (−84.02 longitude, 31.89 latitude), Lee County, Georgia.

(ii) Note: Two maps of unit 6—western part of unit 6 and—eastern part of unit 6 follow:


Unit 6: Middle Flint River (Eastern), Georgia, for the Shinyrayed Pocketbook, Gulf Moccasinshell, Oval Pigtoe, and Purple Bankclimber.
Dry Branch Creek
Chokee Creek
Lake Blackshear
CRISP
Warwick Dam
River
LEE
WORTH
Jones Creek
Flint
Abrams Creek
123
Mercer Millpond
Mercer Millpond Ck
Mill Ck
Lake Worth
DOUGHERTY
Piney Woods Ck
AL
GA
FL
Critical Habitat
Roads
County
0 1.5 3 Km
0 1.5 3 Miles

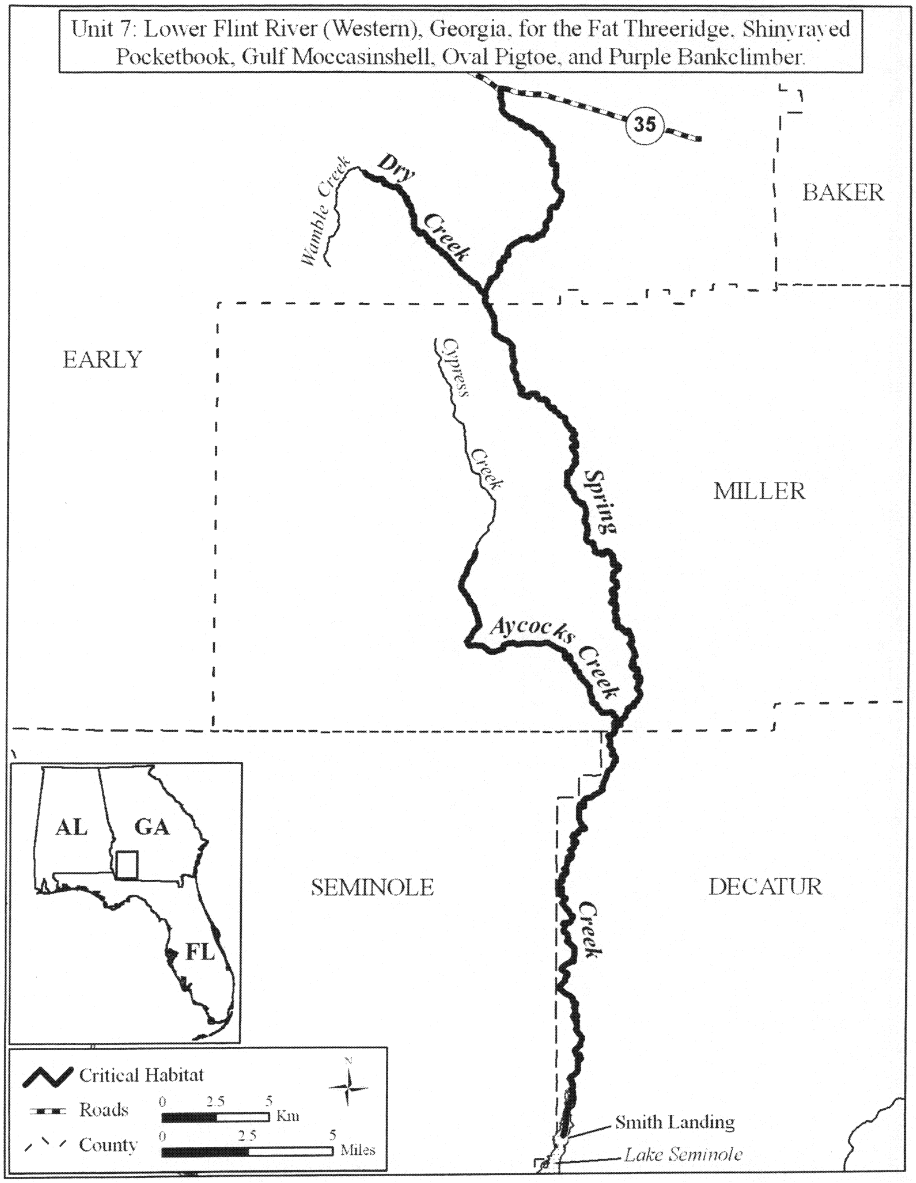


(13) Unit 7. Lower Flint River and Spring, Aycocks, Dry, Ichawaynochaway, Mill, Pachitla, Little Pachitla, Chickasawhatchee, and Cooleewahee creeks in Baker, Calhoun, Decatur, Dougherty, Early, Miller, Mitchell, and Terrell counties, Georgia. This is a critical habitat unit for the fat threeridge, shinyrayed pocketbook, Gulf moccasinshell, oval pigtoe, and purple bankclimber.

(i) *General Description:* Unit 7 encompasses a total stream length of 396.7 km (246.5 mi) and includes the Flint River from its confluence with Big Slough (−84.56 longitude,

30.93 latitude), Decatur County, Georgia, upstream 116.4 km (72.3 mi) through Baker and Mitchell Counties, Georgia, to the Flint River Dam (which impounds Lake Worth) (−84.14 longitude, 31.60 latitude), Dougherty County, Georgia; Spring Creek, from its confluence with Lake Seminole at Smith Landing (−84.75 longitude, 30.89 latitude), Decatur County, Georgia, upstream 74.2 km (46.1 mi) to County Road 35 (−84.78 longitude, 31.34 latitude), Early County, Georgia; Aycocks Creek from Spring Creek upstream 15.9 km (9.9 mi) to Cypress Creek (−84.79 longitude, 31.15 latitude), Miller County, Georgia; Dry Creek from Spring Creek upstream 9.9 km (6.1 mi) to Wamble Creek (−84.84 longitude, 31.31 latitude), Early County, Georgia; Ichawaynochaway Creek from the Flint River, Baker County, Georgia, upstream 68.6 km (42.6 mi) to Merrett Creek (−84.58 longitude, 31.54 latitude), Calhoun County, Georgia; Mill Creek from Ichawaynochaway Creek upstream 7.4 km (4.6 mi) to County Road 163 (−84.63 longitude, 31.40 latitude), Baker County, Georgia; Pachitla Creek, from Ichawaynochaway Creek upstream 18.9 km (11.8 mi) to Little Pachitla Creek (−84.68 longitude, 31.56 latitude), Calhoun County, Georgia; Little Pachitla Creek from Pachitla Creek upstream 5.8 km (3.6 mi) to Bear Branch (−84.72 longitude, 31.58 latitude), Calhoun County, Georgia; Chickasawhatchee Creek from Ichawaynochaway Creek, Baker County, Georgia, upstream 64.5 km (40.1 mi) to U.S. Highway 82 (−84.38 longitude, 31.74 latitude), Terrell County, Georgia; and Cooleewahee Creek from the Flint River upstream 15.1 km (9.4 mi) to Piney Woods Branch (−84.31 longitude, 31.42 latitude), Baker County, Georgia.

(ii) Note: Two maps of unit 7—western part of unit 7 and—eastern part of unit 7 follow:


Unit 7: Lower Flint River (Western), Georgia, for the Fat Threeridge, Shinyrayed Pocketbook, Gulf Moccasinshell, Oval Pigtoe, and Purple Bankclimber.
35
Wimble Creek
Dry Creek
BAKER
EARLY
Cypress Creek
Spring Creek
MILLER
Aycocks Creek
AL
GA
FL
SEMINOLE
DECATUR
Creek
Critical Habitat
Roads
County
0 2.5 5 Km
0 2.5 5 Miles
N
Smith Landing
Lake Seminole

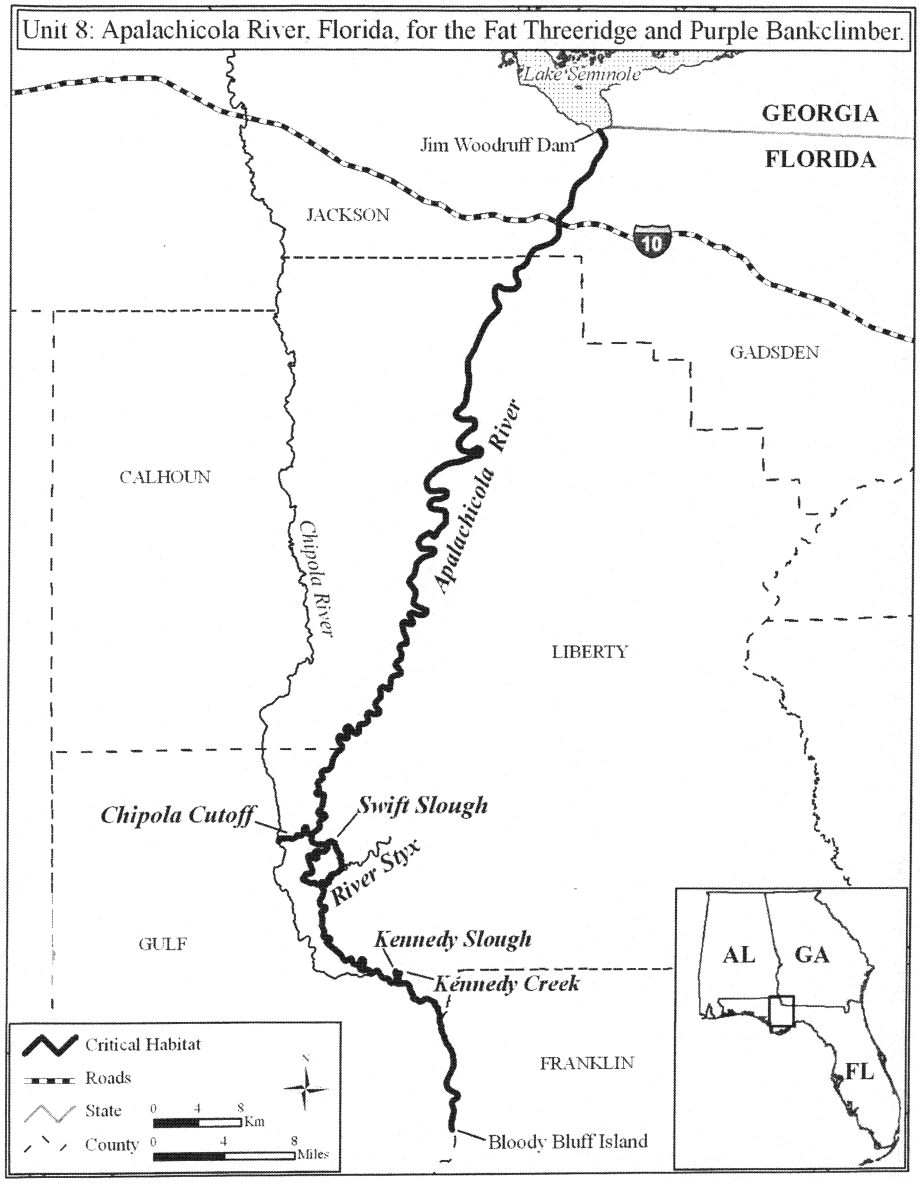


(14) Unit 8. Apalachicola River, Chipola Cutoff, Swift Slough, River Styx, Kennedy Slough, and Kennedy Creek in Calhoun, Franklin, Gadsden, Gulf, Jackson, and Liberty Counties, Florida. This is a critical habitat unit for the fat threeridge and purple bankclimber.

(i) *General Description:* Unit 8 includes the main stem of the Apalachicola River, two of its distributaries, Chipola Cutoff and Swift Slough, and three of its tributaries, River Styx, Kennedy Slough, and Kennedy Creek, encompassing a total length of 161.2 river km

(100.2 river mi). The main stem of the Apalachicola River extends from the downstream end of Bloody Bluff Island (river mile 15.3 on U.S. Army Corps of Engineers Navigation Charts) (−85.01 longitude, 29.88 latitude), Franklin County, Florida, through Calhoun and Liberty Counties, Florida, upstream to the Jim Woodruff Lock and Dam (which impounds Lake Seminole) (−84.86 longitude, 30.71 latitude), Gadsden and Jackson Counties, Florida; Chipola Cutoff from the Apalachicola River in Gulf County, Florida, downstream 4.5 river km (2.8 river mi) to its confluence with the Chipola River; Swift Slough from the Apalachicola River in Liberty County, Florida, downstream 3.6 river km (2.2 river mi) to its confluence with the River Styx (−85.12 longitude, 30.10 latitude); River Styx from the mouth of Swift Slough (−85.12 longitude, 30.10 latitude) in Liberty County, Florida, downstream 3.8 river km (2.4 river mi) to its confluence with the Apalachicola River; Kennedy Slough from −85.07 longitude, 30.01 latitude in Liberty County, Florida, downstream 0.9 river km (0.5 river mi) to its confluence with Kennedy Creek; and Kennedy Creek from Brushy Creek Feeder (−85.06 longitude, 30.01 latitude) in Liberty County, Florida, downstream 1.1 river km (0.7 river mi) to its confluence with the Apalachicola River.

(ii) Note: Unit 8 map follows:

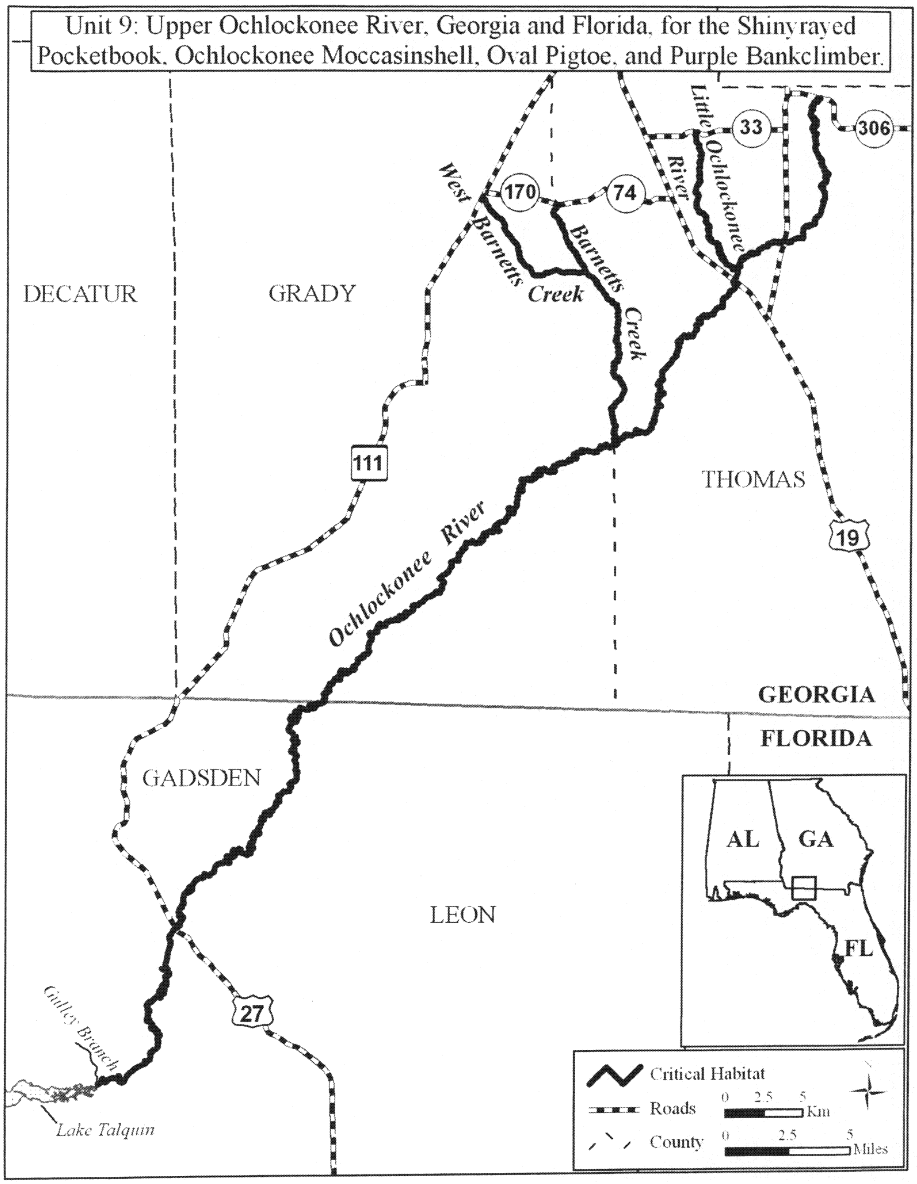


(15) Unit 9. Upper Ochlockonee River and Barnetts and West Barnetts creeks, and the Little Ochlockonee River in Gadsden and Leon counties, Florida, and in Grady and Thomas counties, Georgia. This is a critical habitat unit for the shinyrayed pocketbook, Ochlockonee moccasinshell, oval pigtoe, and purple bankclimber.

(i) *General Description:* Unit 9 includes the main stem of the Ochlockonee River upstream of Lake Talquin and three tributaries encompassing a total stream length of 177.3 km (110.2 mi). The main stem of the

Ochlockonee River extends from its confluence with Gulley Branch (the approximate upstream extent of Lake Talquin) (−84.44 longitude, 30.46 latitude), Gadsden and Leon counties, Florida, upstream 134.0 km (83.3 mi) to Bee Line Road/County Road 306 (−83.94 longitude, 31.03 latitude), Thomas County, Georgia; Barnetts Creek from the Ochlockonee River upstream 20 km (12.4 mi) to Grady County Road 170/Thomas County Road 74 (−84.12 longitude, 30.98 latitude), Grady and Thomas counties, Georgia; West Barnetts Creek from Barnetts Creek upstream 10 km (6.2 mi) to Georgia Highway 111 (−84.17 longitude, 30.98 latitude), Grady County, Georgia; and the Little Ochlockonee River from the Ochlockonee River upstream 13.3 km (8.3 mi) to Roup Road/County Road 33 (−84.02 longitude, 31.02 latitude), Thomas County, Georgia.

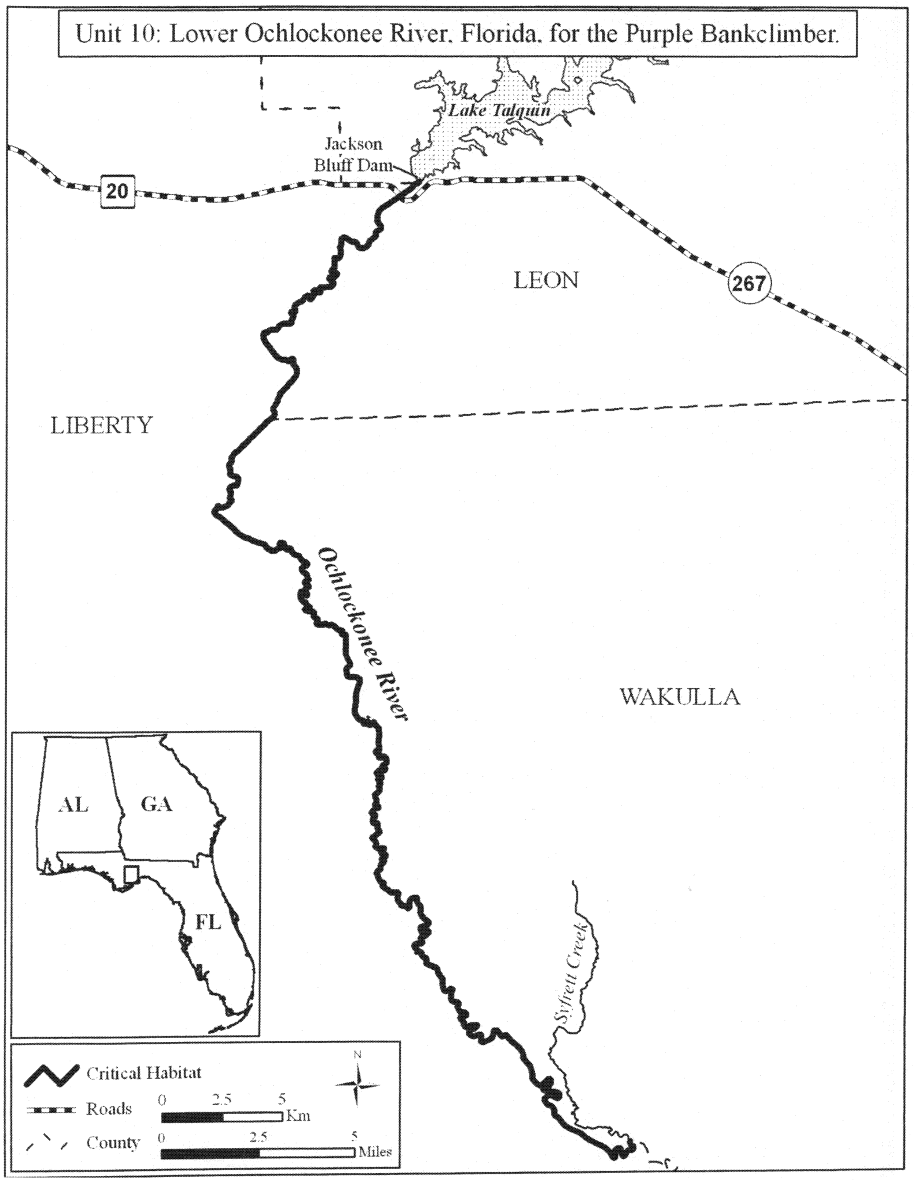
(ii) Note: Unit 9 map follows:



(16) Unit 10. Lower Ochlockonee River in Leon, Liberty, and Wakulla counties, Florida. This is a critical habitat unit for the purple bankclimber.

(i) *General Description:* Unit 10 encompasses a total stream length of 75.4 km (46.9 mi) and includes the main stem of the Ochlockonee River from its confluence with Syfrett Creek (−84.56 longitude, 30.02 latitude), Wakulla County, Florida, upstream 75.4 km (46.9 mi) to the Jackson Bluff Dam (which impounds Lake Talquin) (−84.65 longitude, 30.39 latitude), Leon and Liberty counties, Florida.

(ii) Note: Unit 10 map follows:

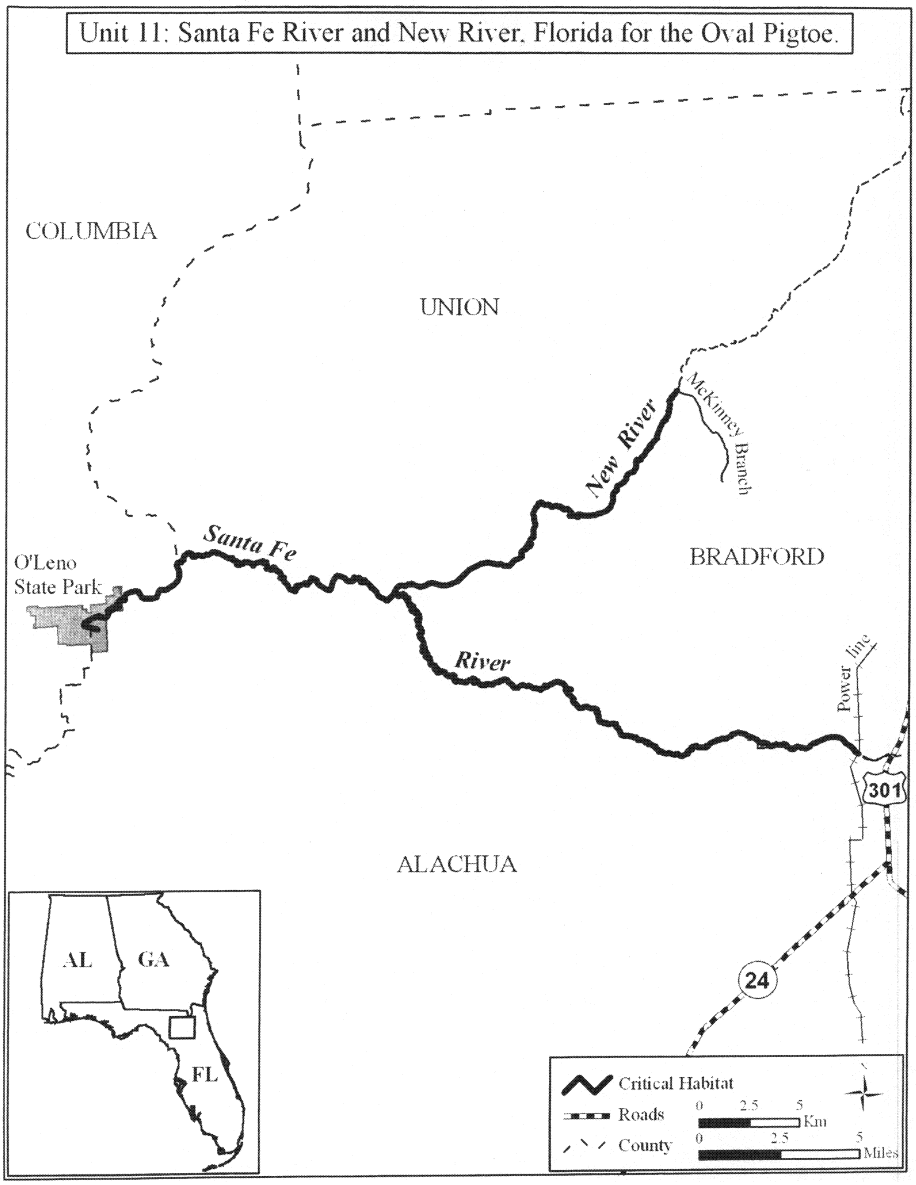


(17) Unit 11. Santa Fe River and New River in Alachua, Bradford, Columbia, and Union counties, Florida. This is a critical habitat unit for the oval pigtoe.

(i) *General Description:* Unit 11 includes the main stem of the Santa Fe River and its tributary the New River encompassing a total stream length of 83.1 km (51.6 mi). The main channel of the Santa Fe River extends from where the river goes underground in O'Leno State Park (−82.57 longitude, 29.91 latitude), Alachua and Columbia counties, Florida, upstream 60.2 km (37.4 mi) to the powerline crossing located 1.9 km (1.2 mi) downstream from the U.S. Highway 301 bridge (−82.18 longitude, 29.84 latitude) in

Alachua and Bradford counties, Florida; and the New River from its confluence with the Santa Fe River at the junction of Alachua, Bradford, and Union counties, Florida, upstream 22.9 km (14.2 mi) to McKinney Branch (−82.27 longitude, 30.01 latitude) in Bradford and Union counties, Florida.

(ii) Note: Unit 11 map follows:

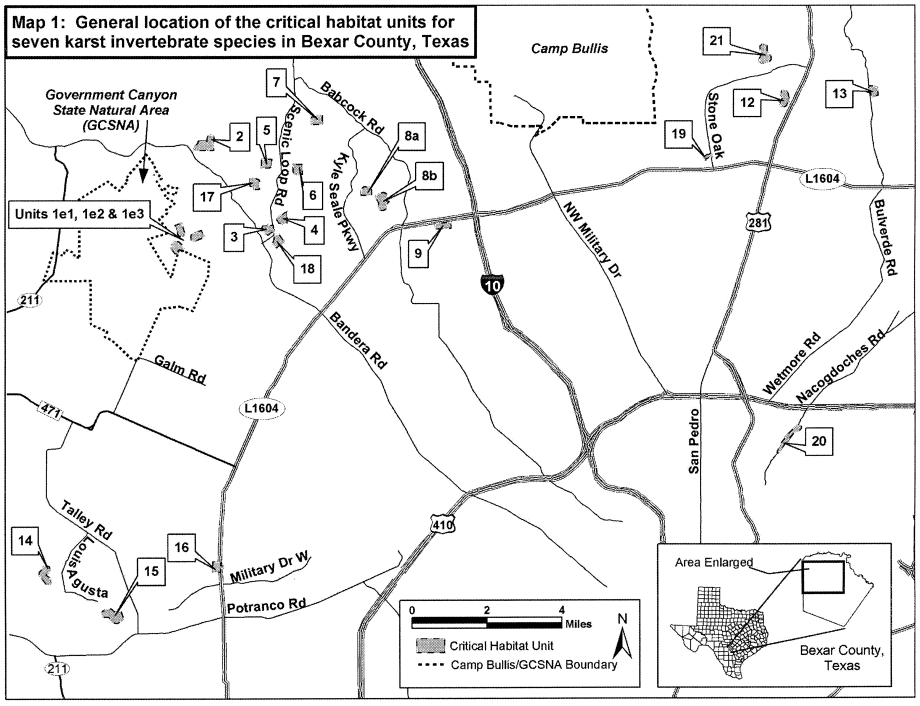


(g) *Arachnids.*

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:



(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

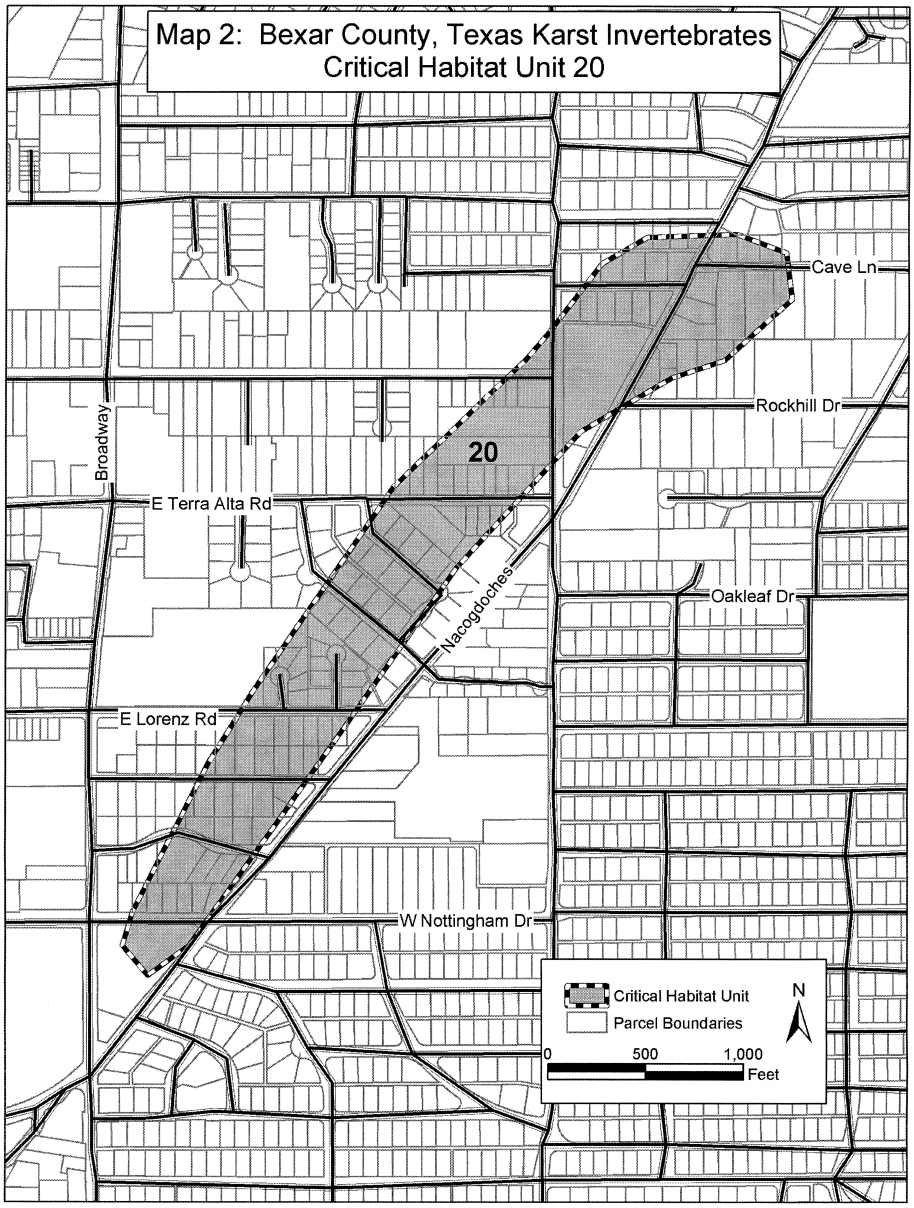
(ii) The biological features of a healthy surface community of native plants (for example, juniper-oak woodland) and animals (for example, cave crickets) surrounding the karst feature that provide nutrient input and buffer the karst ecosystem from adverse effects (from, for example, nonnative species invasions, contaminants, and fluctuations in temperature and humidity).

(4) Existing human-constructed, aboveground, 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:

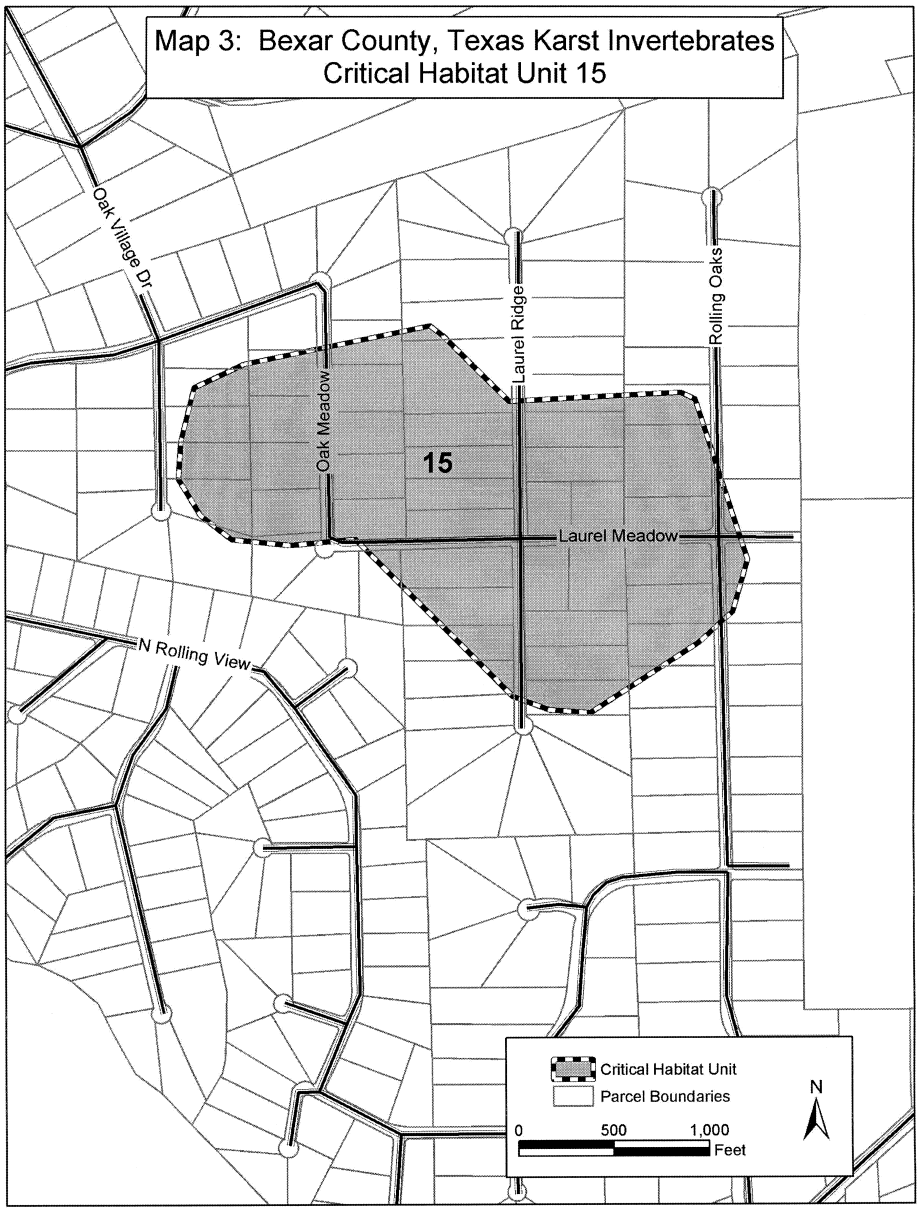


BRAKEN BAT CAVE MESHWEAVER (*Cicurina venii*)

(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:



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*).

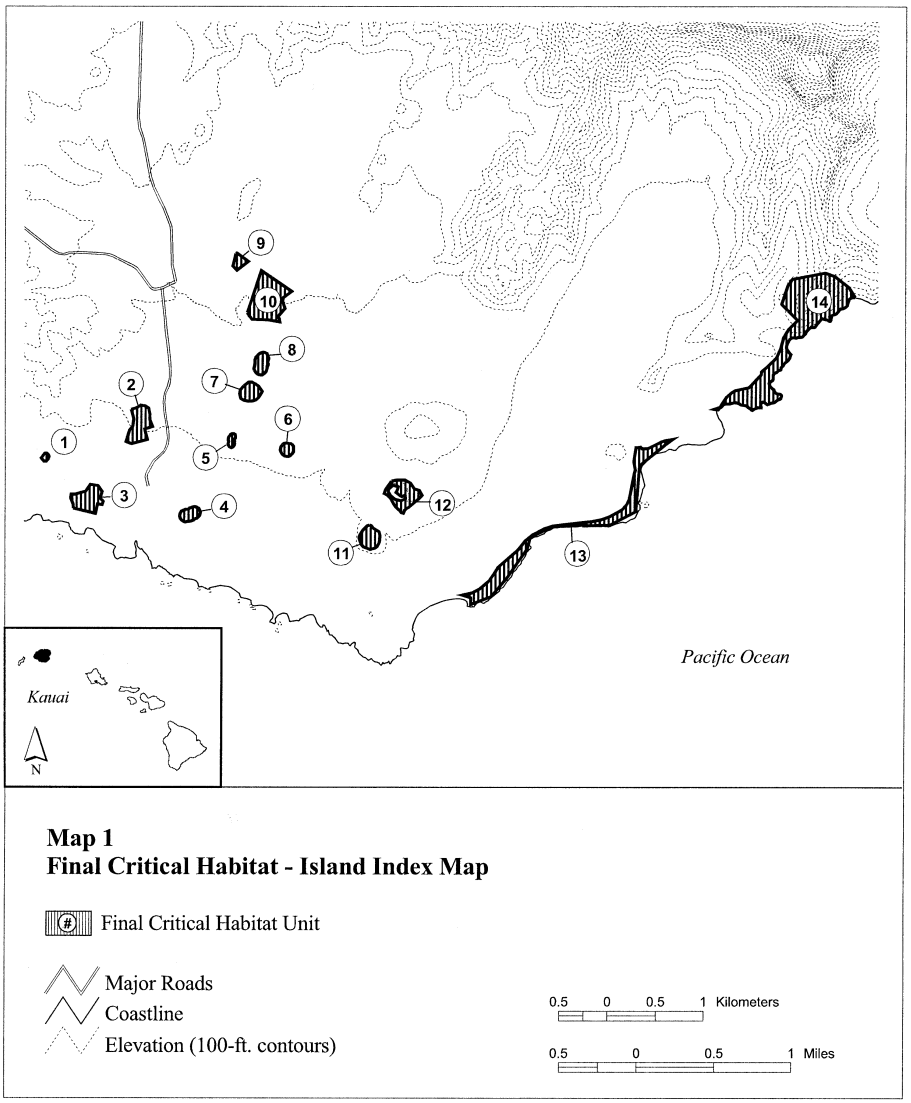
(3) All critical habitat areas contain one or more of the primary constituent elements for the Kauai cave wolf spider.

(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:



(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)):

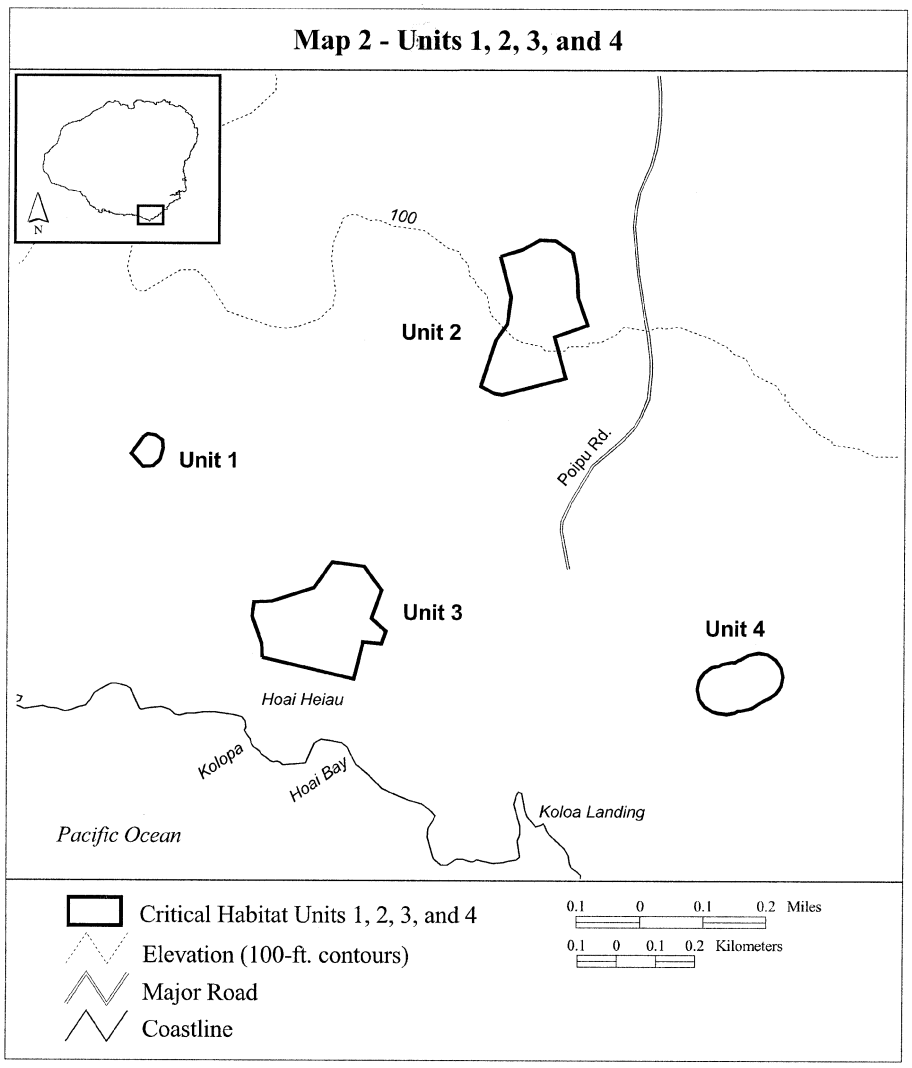
(i) Unit 3 consists of the following 14 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 450881, 2419947; 450879, 2419981; 450855, 2420053; 450859, 2420089; 450903, 2420089; 451012, 2420125; 451058, 2420191; 451138, 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:



(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)):

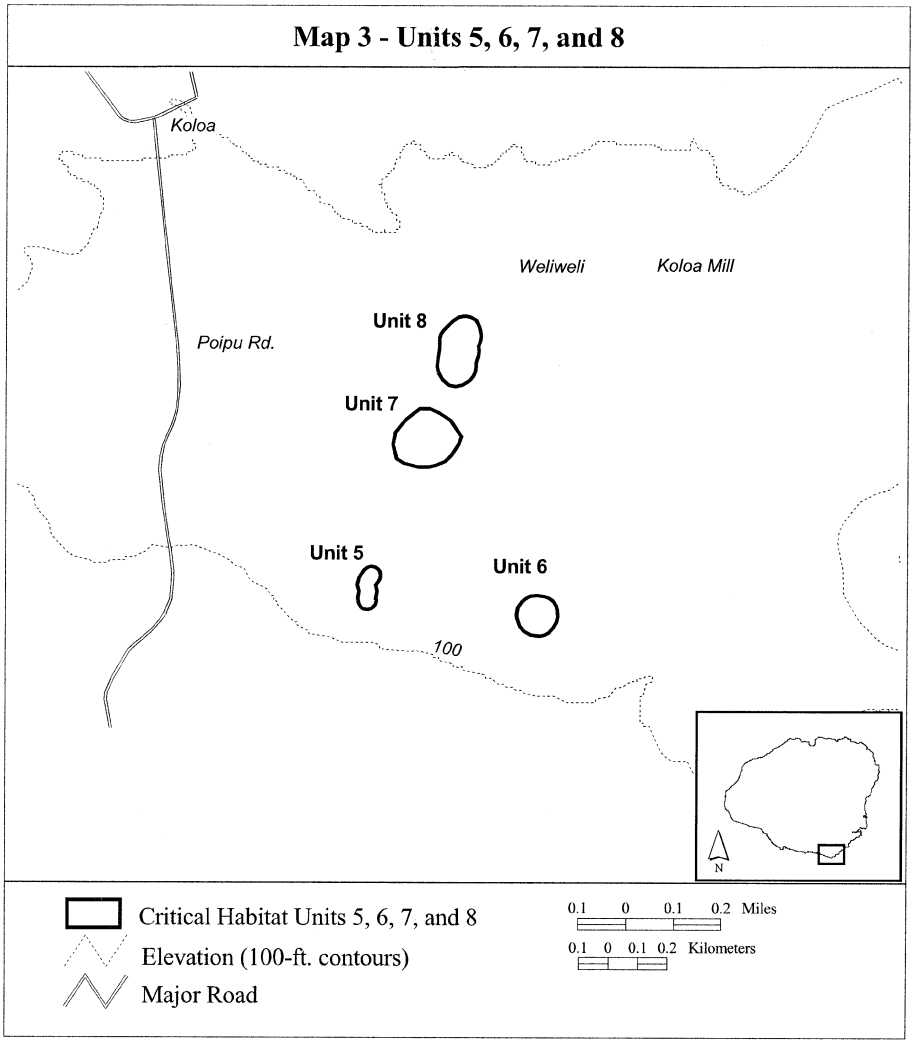
(i) Unit 7 consists of the following 7 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 452623, 2421100; 452812, 2421077; 452831, 2421041; 452816, 2421016; 452786, 2420896; 452590, 2420946; 452608, 2421015; return 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:



(14) Unit 9—(1 ha (4 ac)):

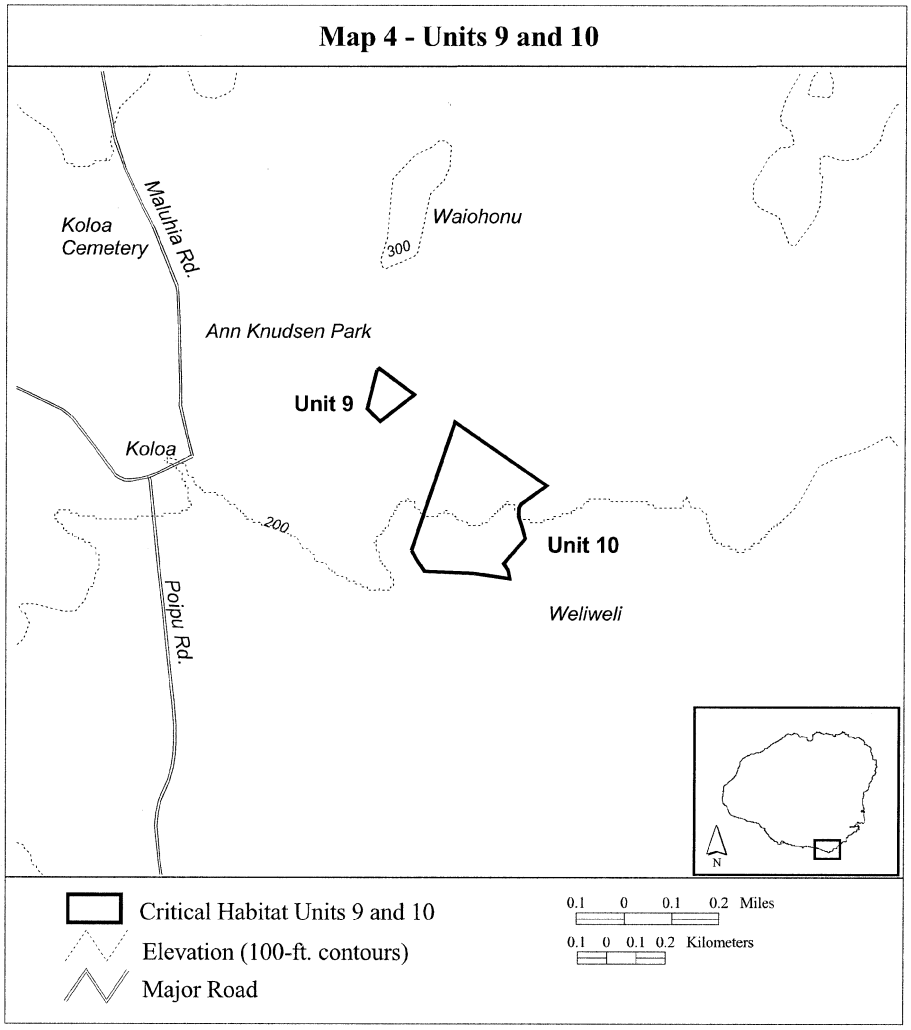
(i) Unit 9 consists of the following 5 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 452568, 2422604; 452577, 2422610; 452696, 2422521; 452580, 2422429; 452537, 2422471; return to starting point.

(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:



(16) Unit 11—(4 ha (10 ac)):

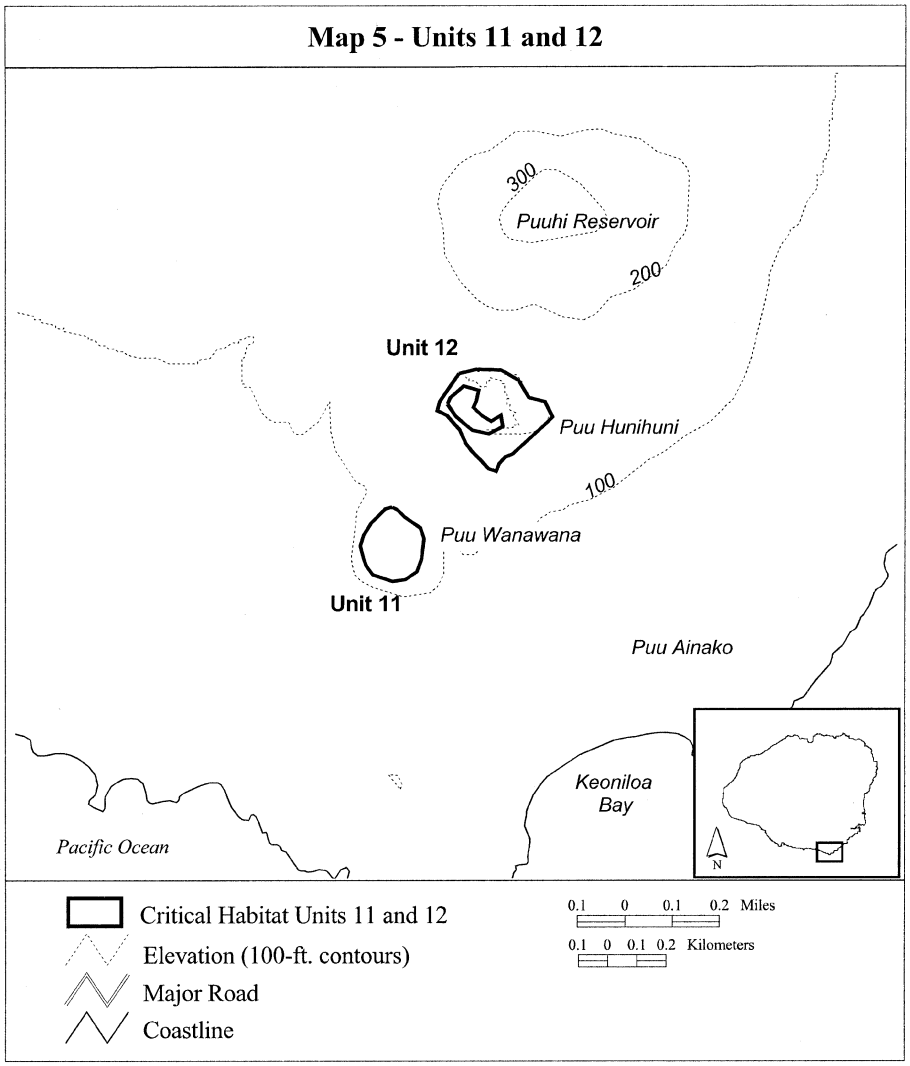
(i) Unit 11 consists of the following 17 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 453958, 2419773; 453976, 2419766; 453999, 2419741; 454054, 2419702; 454068, 2419667; 454060, 2419596; 454042, 2419553; 454005, 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:

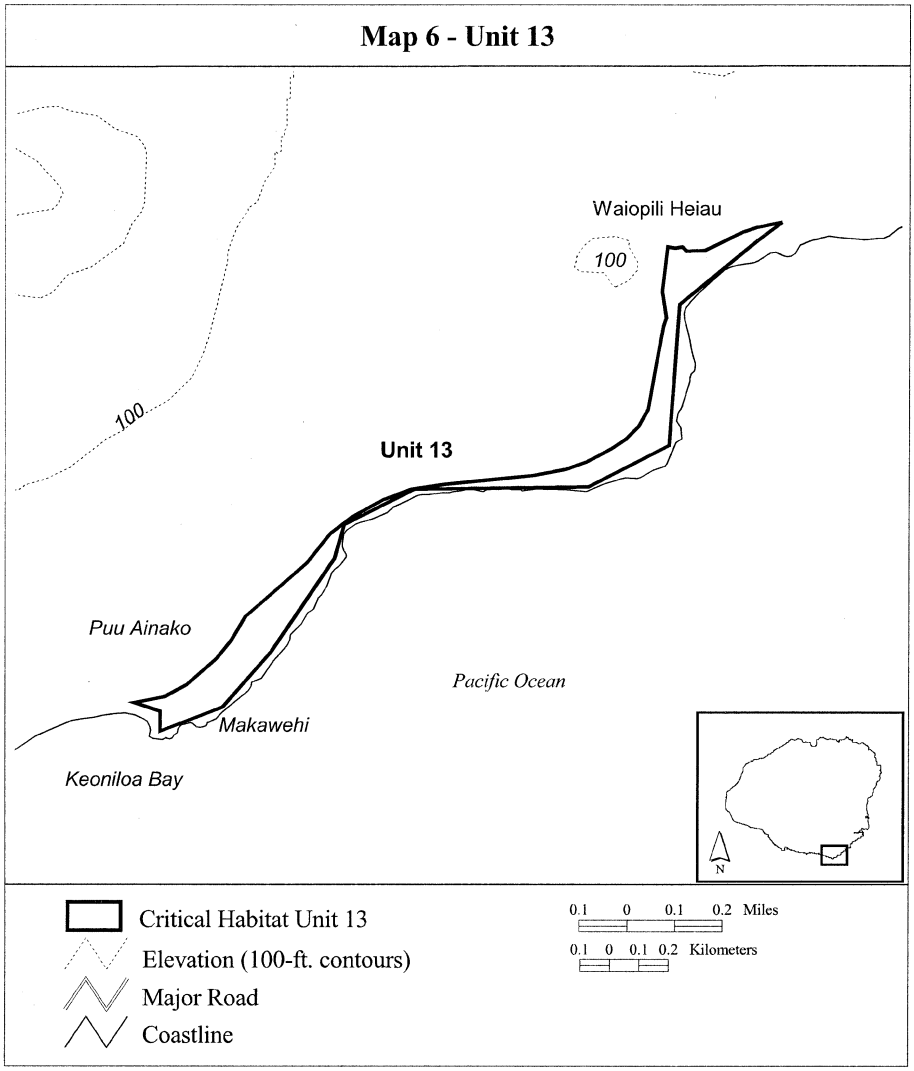


(18) Unit 13—(21 ha (52 ac)):

(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:

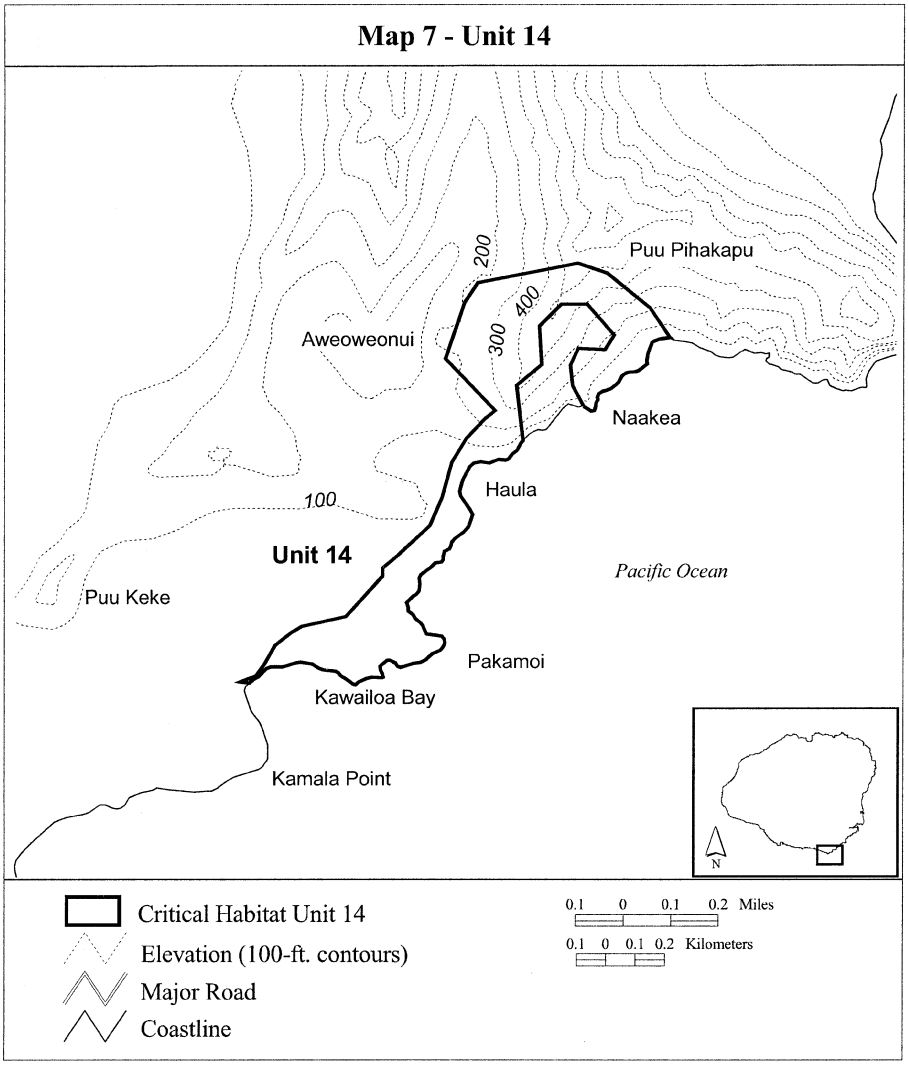


(19) Unit 14—(39 ha (96 ac)):

(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:



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:



(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:



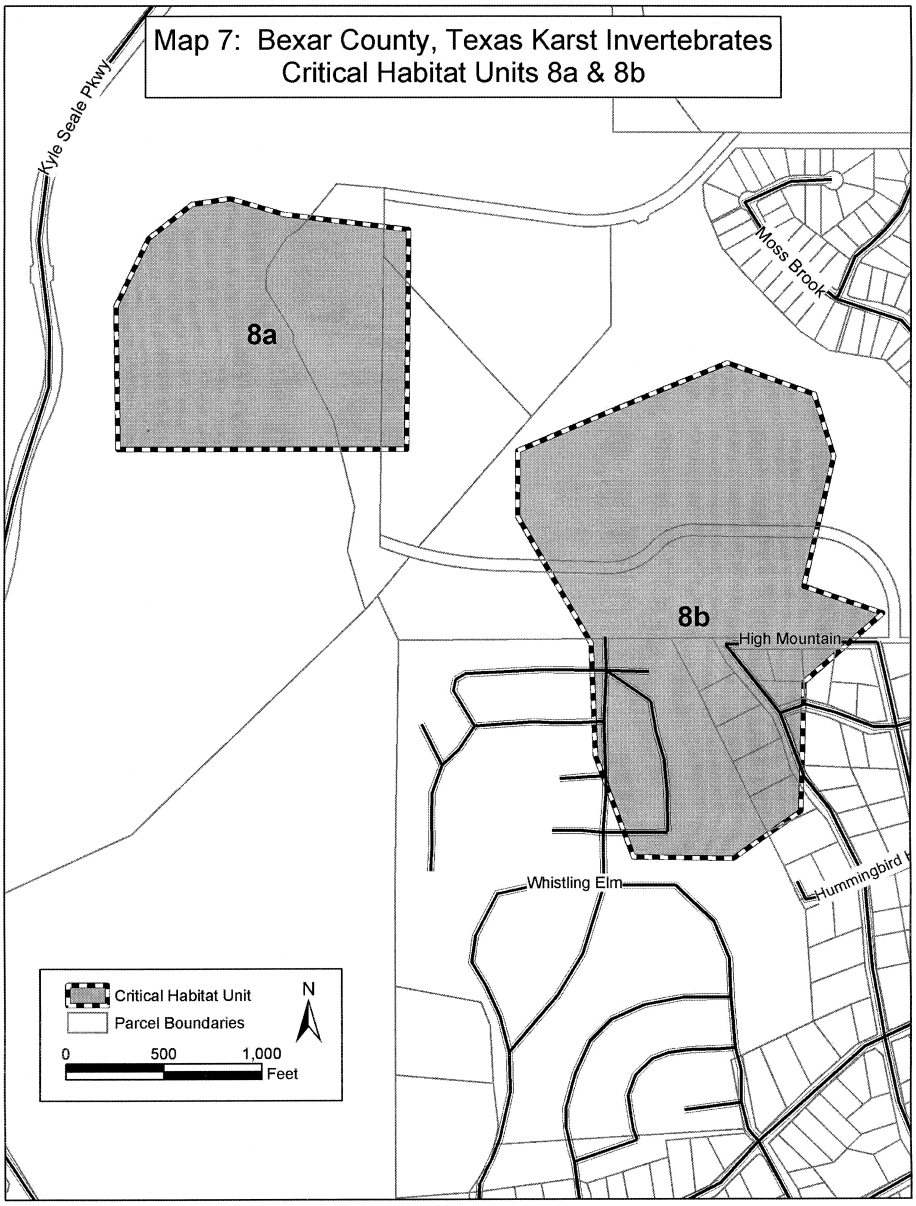
(7) Unit 5 (16 ha (40 ac)) is an area bounded by points with the following coordinates: –98.6935478, 29.6136095; –98.6890212, 29.6135990; –98.6890205, 29.6111931; –98.6891305, 29.6109546; –98.6896239, 29.6104067; –98.6903350, 29.6101696; –98.6935582, 29.6101663; –98.6935478, 29.6136095.

(8) Map 6—Unit 5 (which also depicts Unit 17) follows:



(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:



(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.

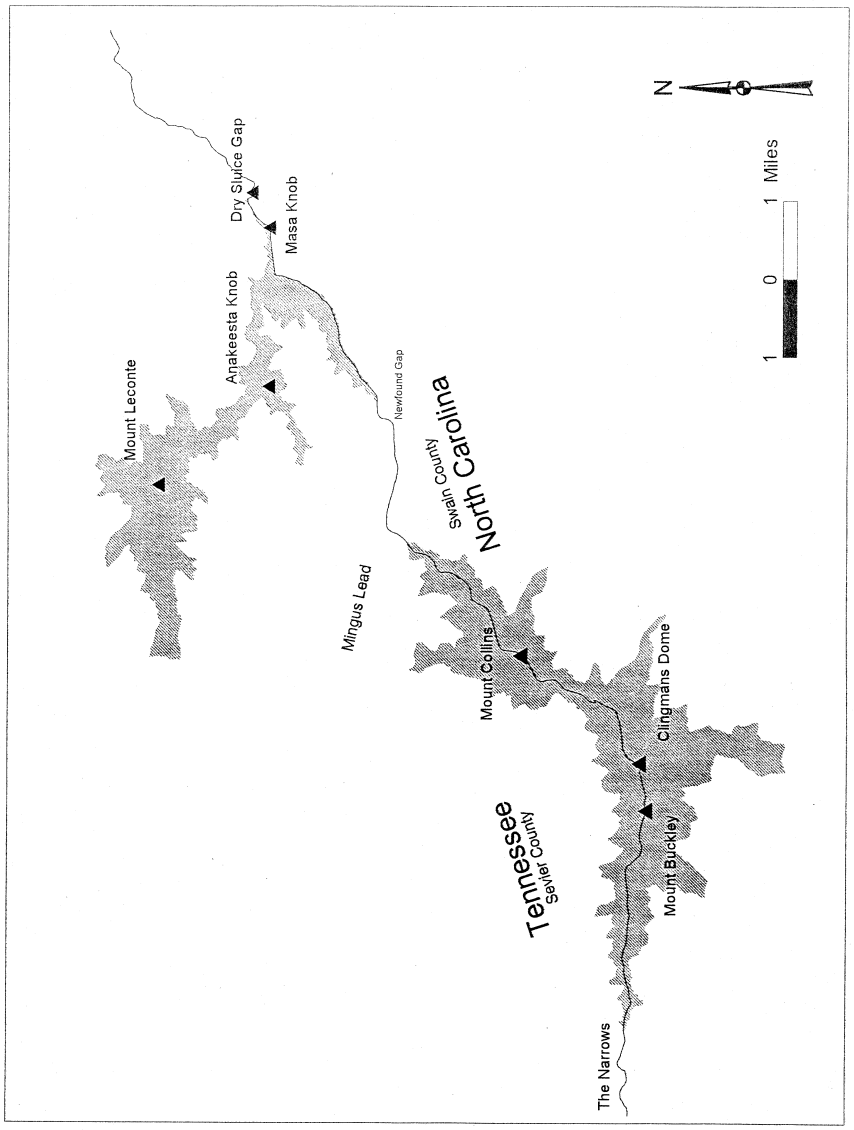
(12) For a map of unit 17, refer to Map 6—Unit 5 in paragraph (8) of this entry.

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*)

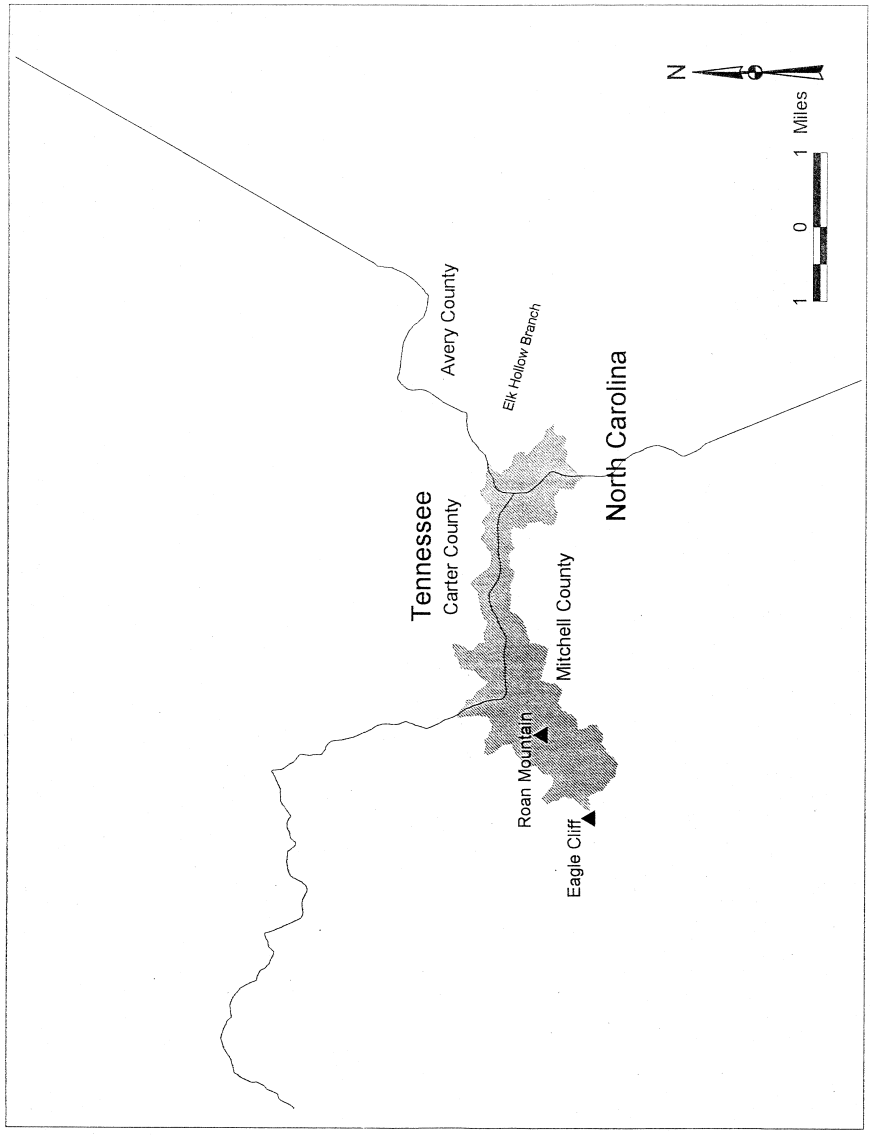
1. Critical habitat units and their ownership are described below and depicted in the following maps.



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.

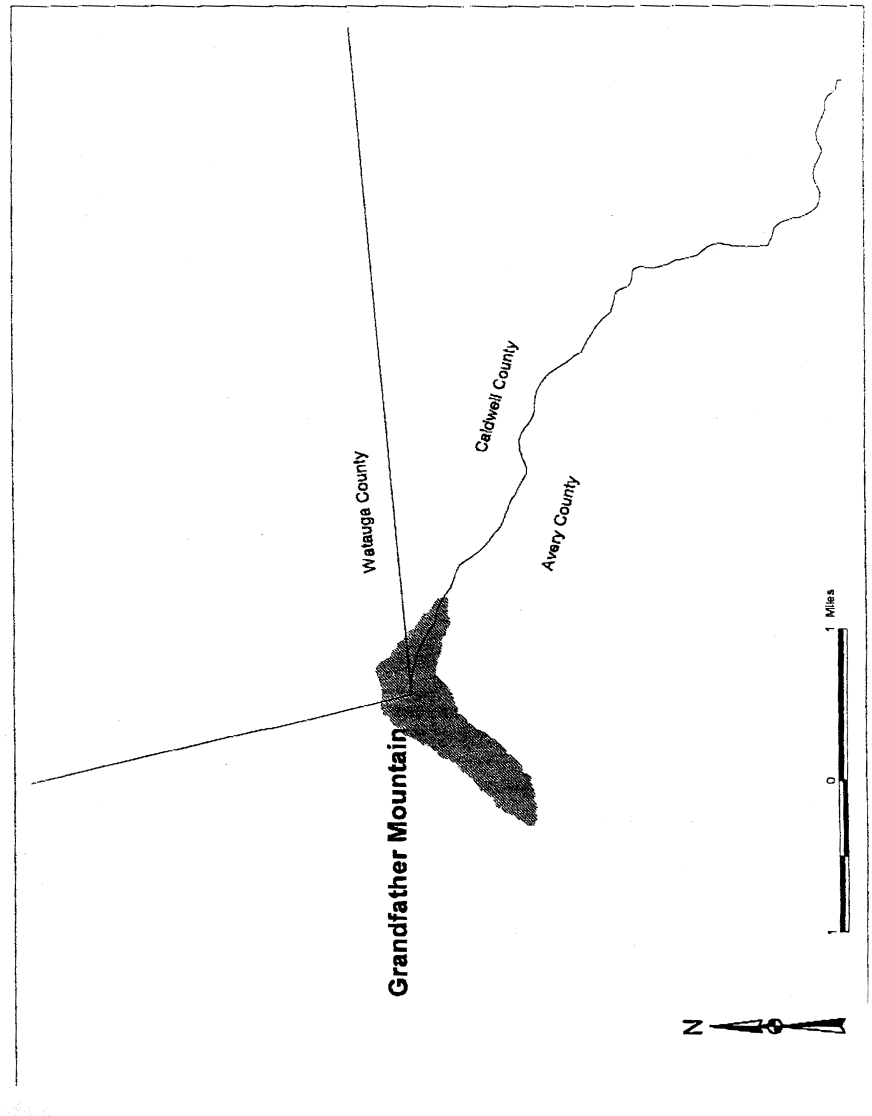
Unit 2: Sevier County, Tennessee—all portions of the GSMNP at and above the 1,646-m (5,400-ft) contour, bounded on the southwest side by the North Carolina/Tennessee State line from the intersection of the State line with the 1,646-m (5,400-ft) contour near Dry Sluice Gap, southeast to the intersection 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.



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.



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*).

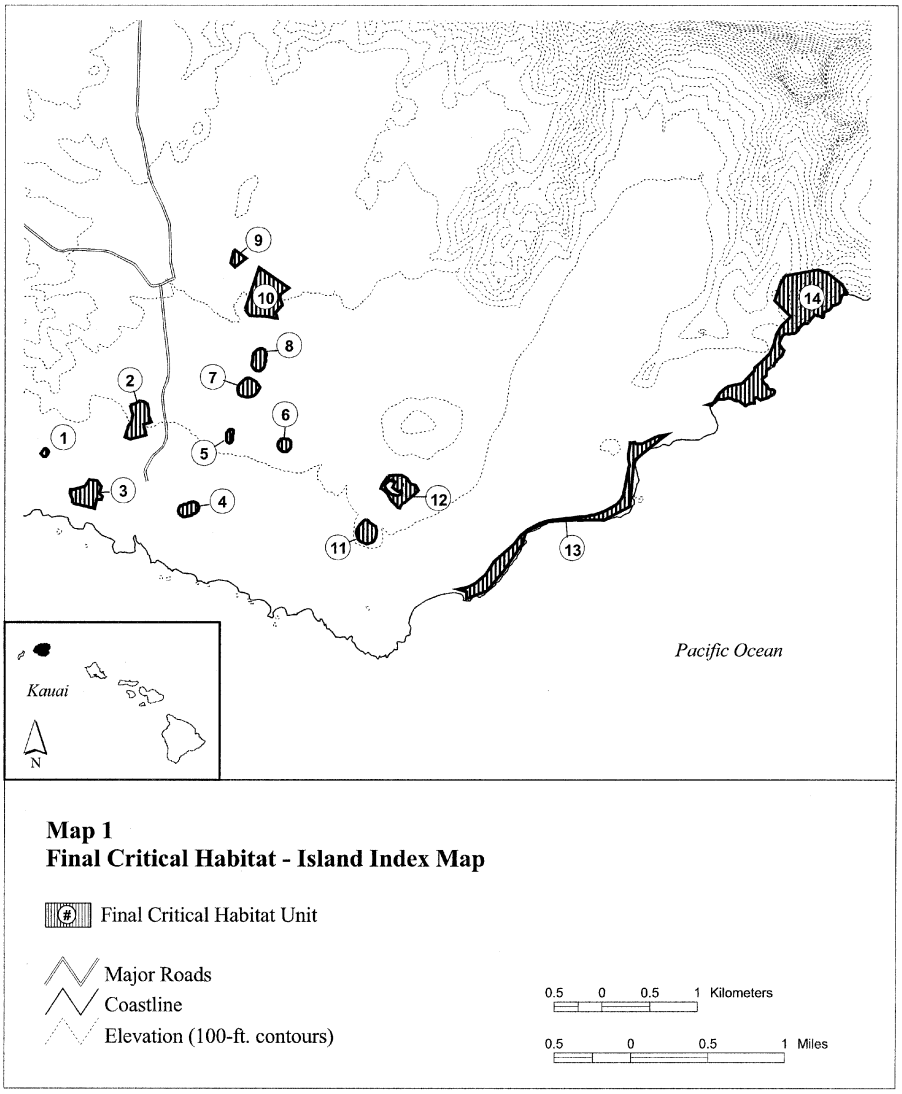
(3) All critical habitat areas contain one or more of the primary constituent elements for the Kauai cave amphipod.

(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:



(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)):

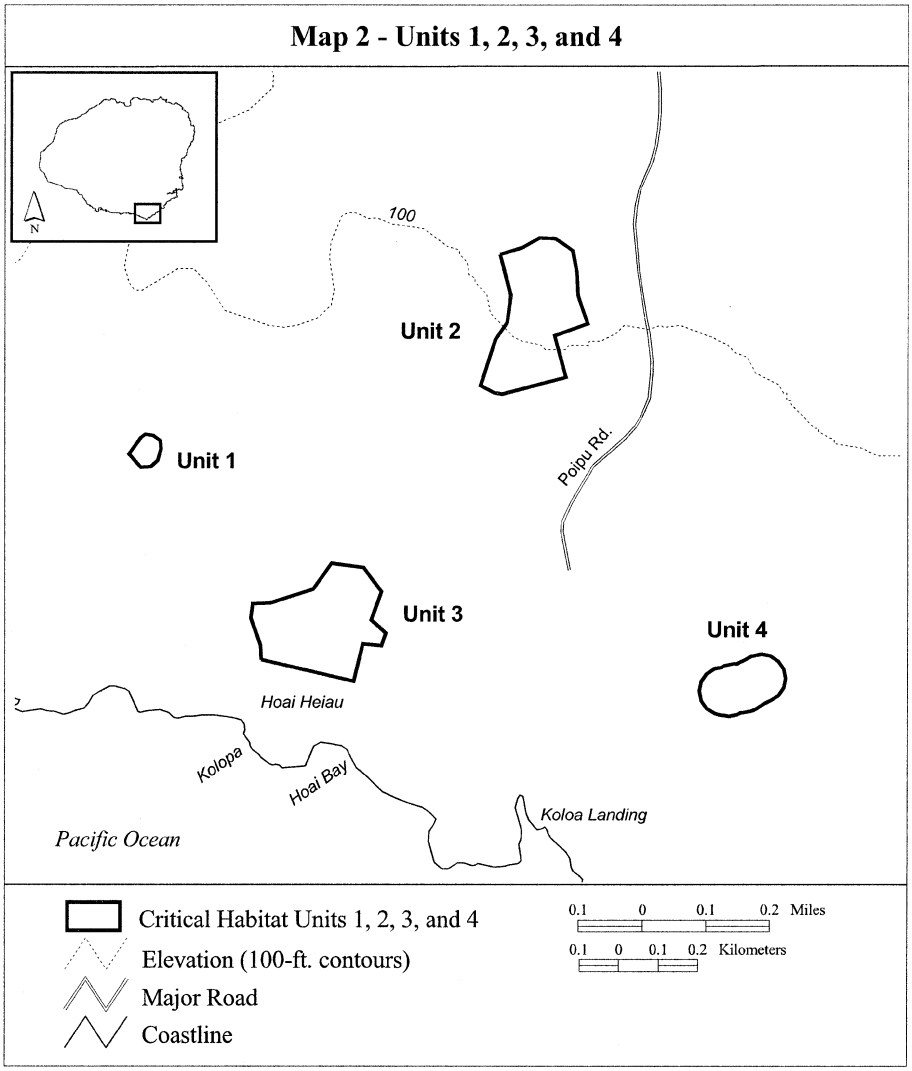
(i) Unit 3 consists of the following 14 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 450881, 2419947; 450879, 2419981; 450855, 2420053; 450859, 2420089; 450903, 2420089; 451012, 2420125; 451058, 2420191; 451138, 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:



(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)):

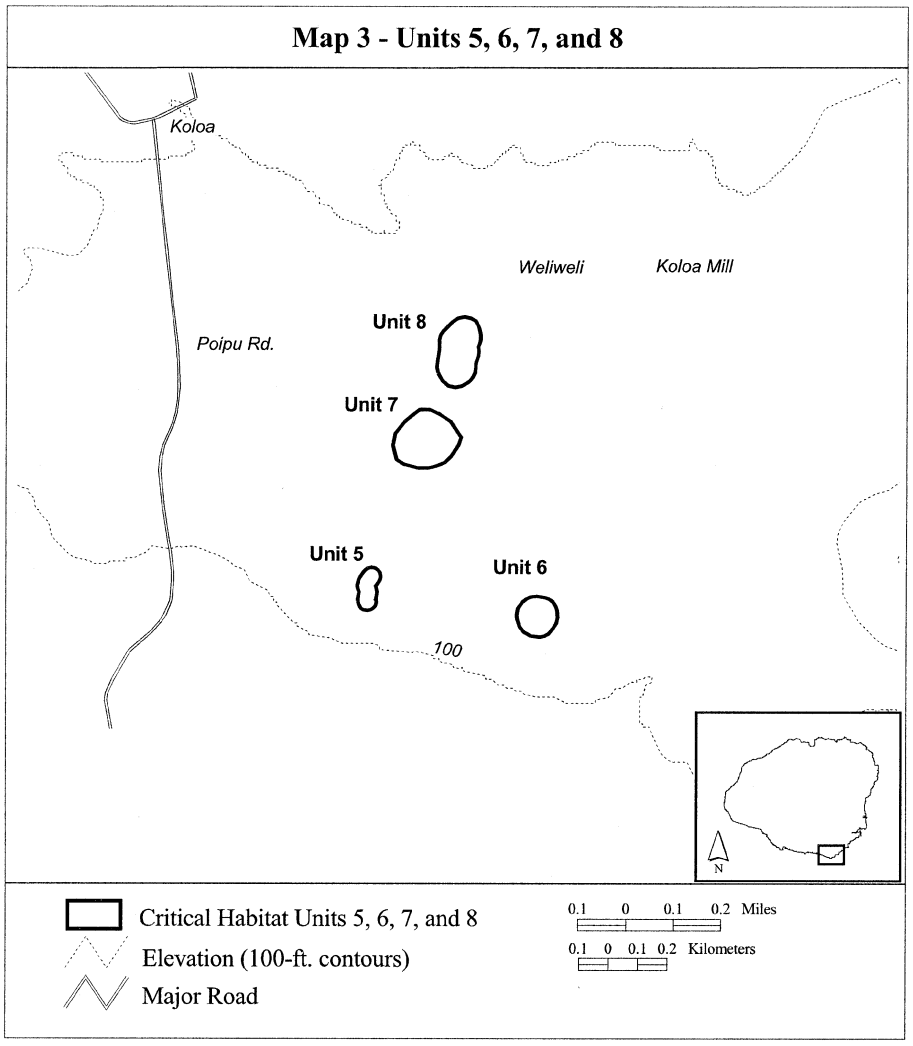
(i) Unit 7 consists of the following 7 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 452623, 2421100; 452812, 2421077; 452831, 2421041; 452816, 2421016; 452786, 2420896; 452590, 2420946; 452608, 2421015; return 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:



(14) Unit 9—(1 ha (4 ac)):

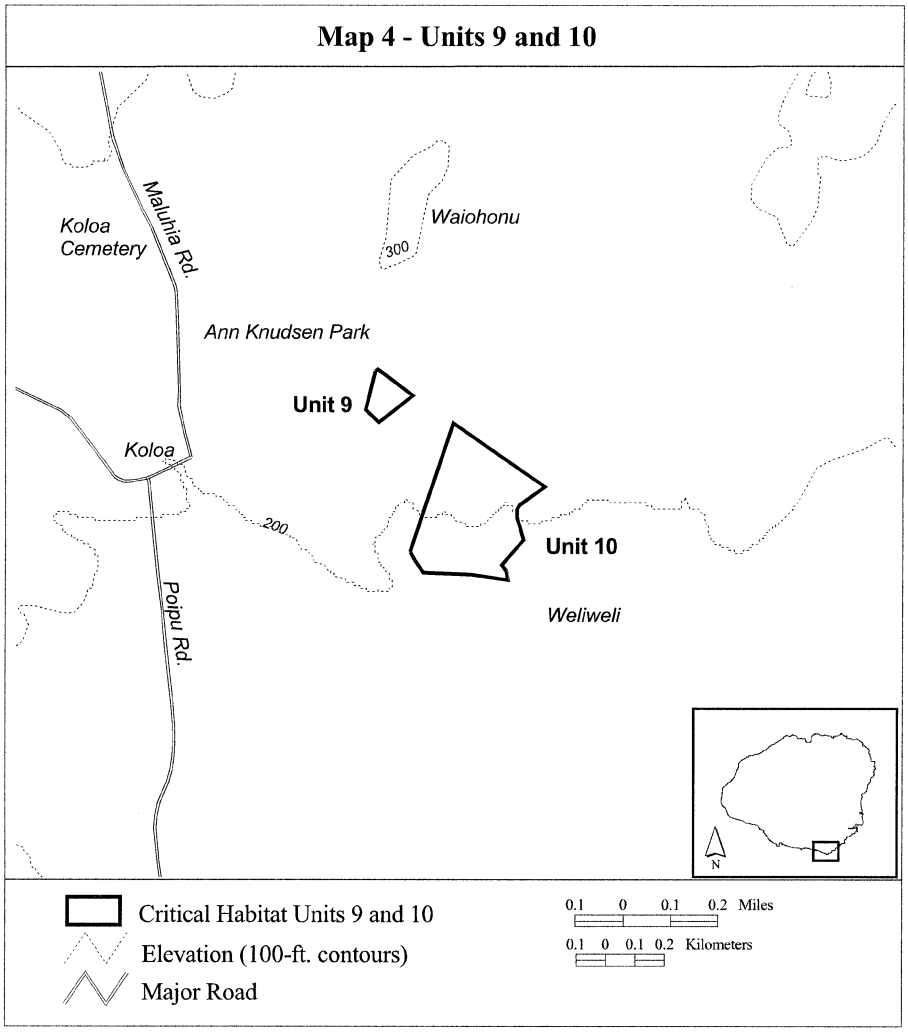
(i) Unit 9 consists of the following 5 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 452568, 2422604; 452577, 2422610; 452696, 2422521; 452580, 2422429; 452537, 2422471; return to starting point.

(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:



(16) Unit 11—(4 ha (10 ac)):

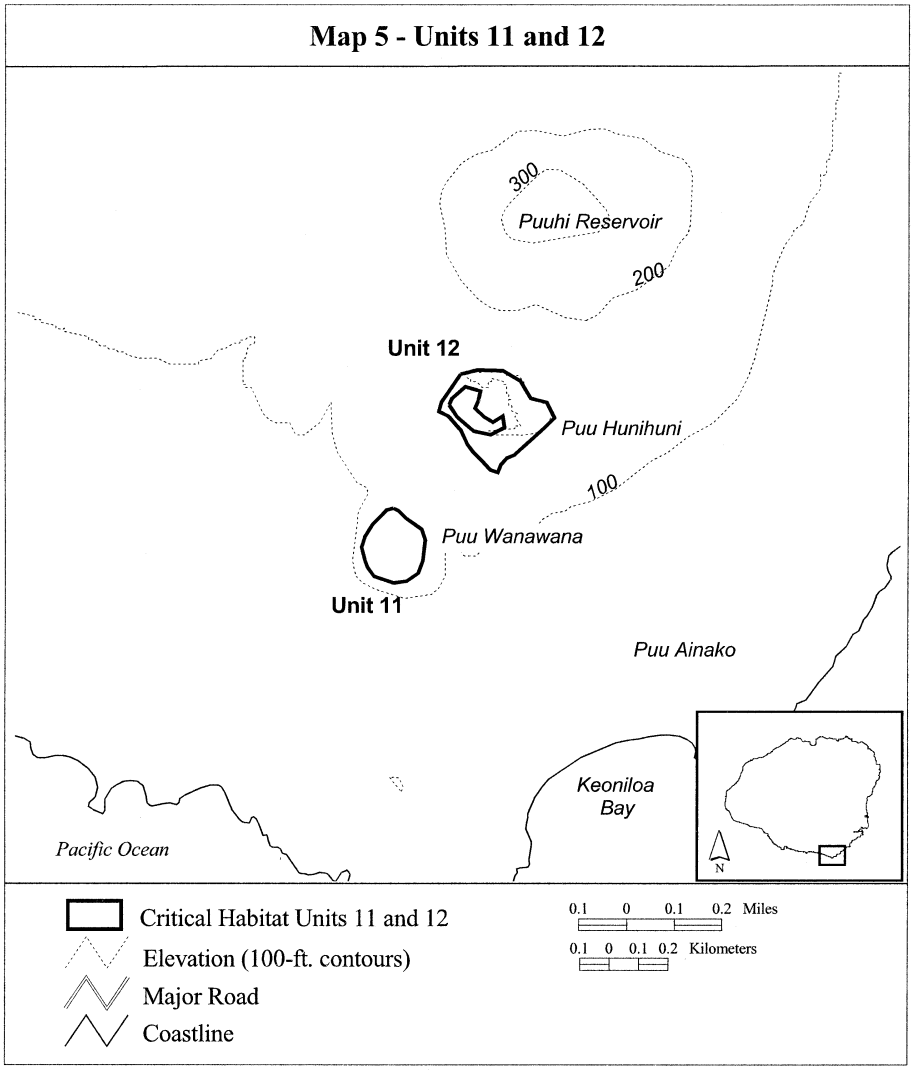
(i) Unit 11 consists of the following 17 boundary points with the following coordinates in UTM Zone 4, with the units in meters using North American Datum of 1983 (NAD83): Start at 453958, 2419773; 453976, 2419766; 453999, 2419741; 454054, 2419702; 454068, 2419667; 454060, 2419596; 454042, 2419553; 454005, 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:

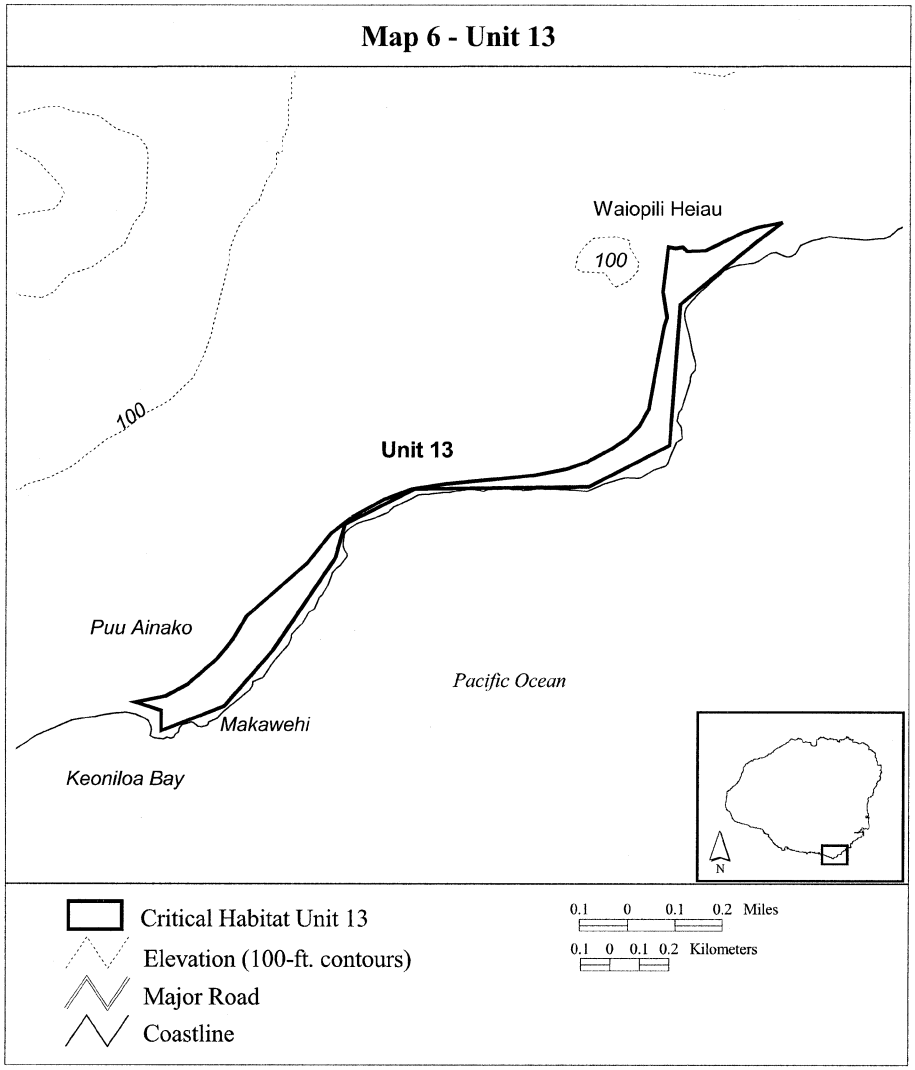


(18) Unit 13—(21 ha (52 ac)):

(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:

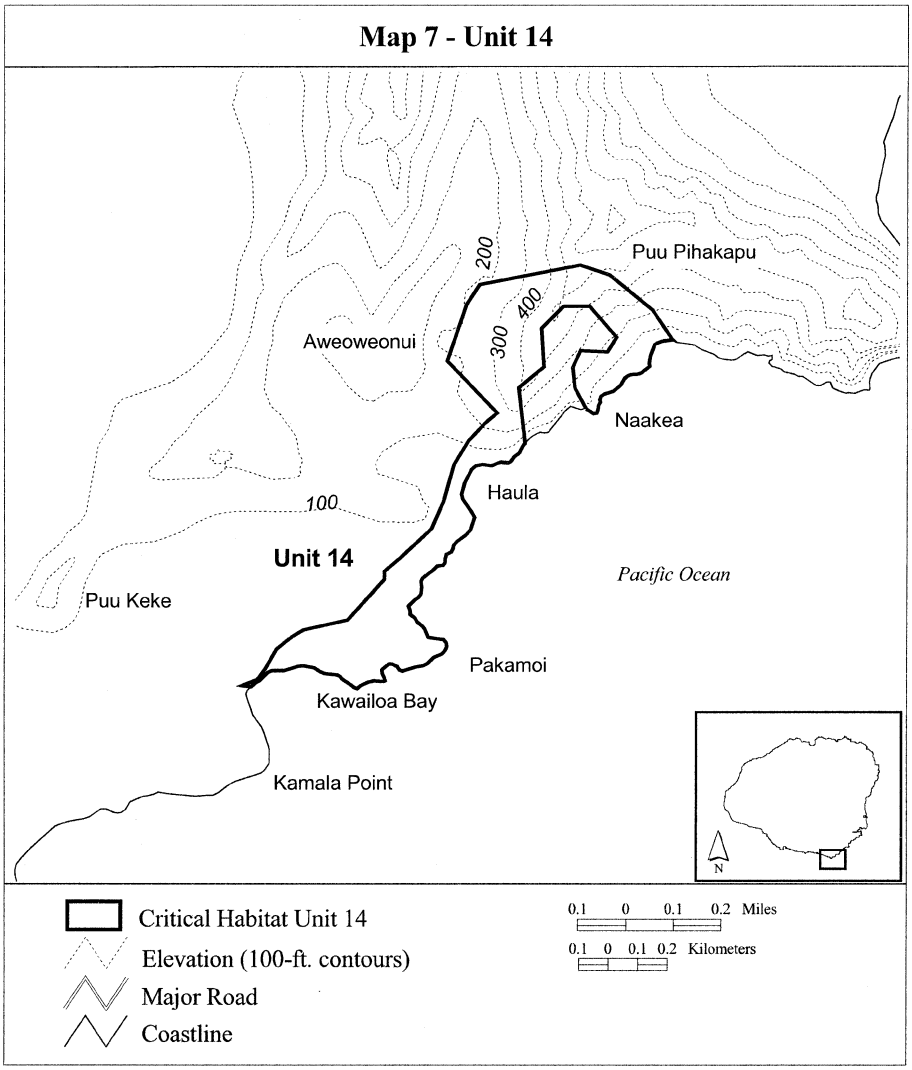


(19) Unit 14—(39 ha (96 ac)):

(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:



PECK'S CAVE AMPHIPOD (*Stygobromus pecki*).

(1) Critical habitat units are depicted for Comal County, Texas, on the maps below.

(2) The primary constituent elements of critical habitat for Peck's cave amphipod are:

(i) High-quality water with no or minimal levels of pollutants, such as soaps and detergents (Brown 1987, p. 261) and other compounds containing surfactants, heavy metals, pesticides, fertilizer nutrients, petroleum hydrocarbons, pharmaceuticals and veterinary medicines, and semi-volatile compounds, such as industrial cleaning agents, and including:

(A) Low salinity with total dissolved solids that generally range from 307 to 368 mg/L; and

(B) Low turbidity that generally is less than 5 nephelometric turbity units;

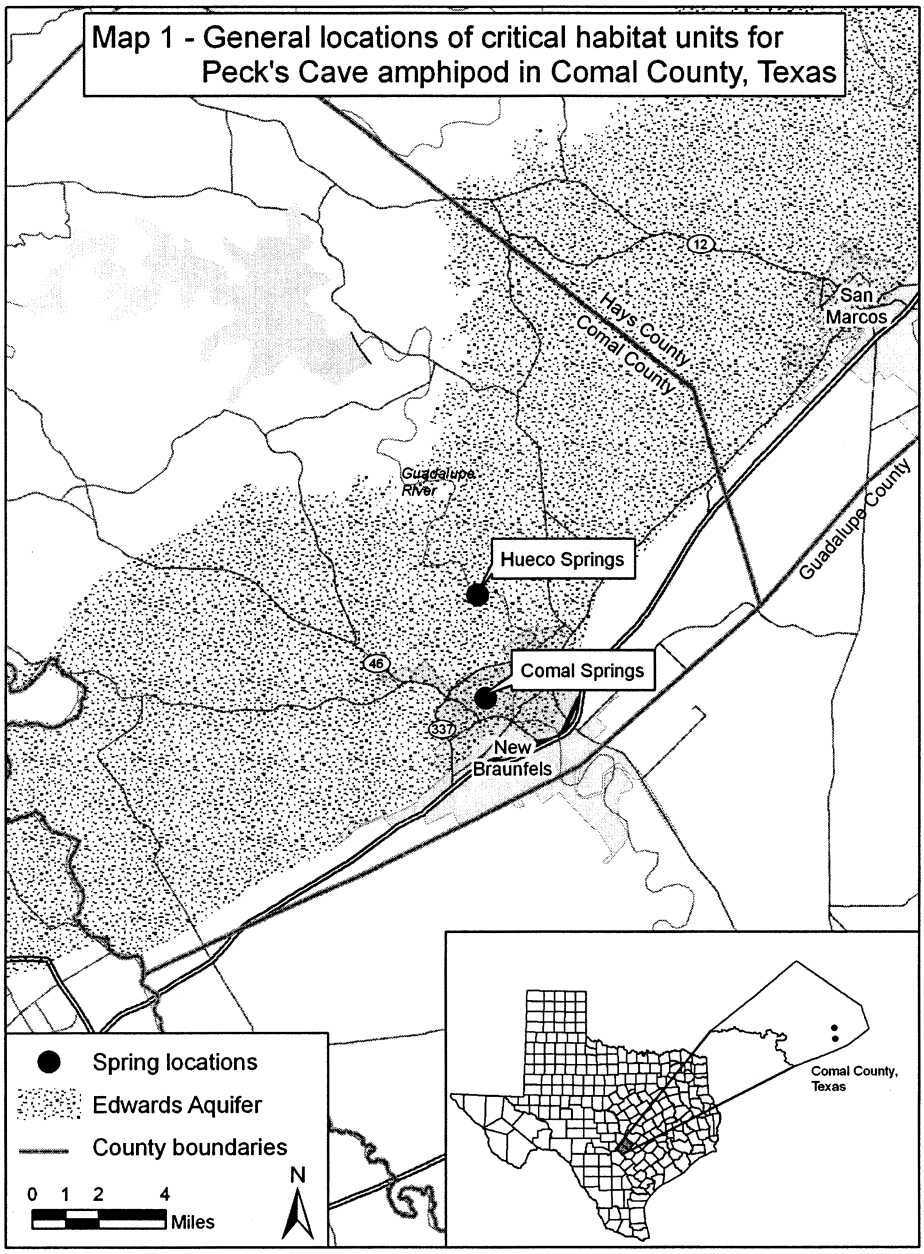
(ii) Aquifer water temperatures that range from approximately 68 to 75 °F (20 to 24 °C); and

(iii) Food supply that includes detritus (decomposed materials), leaf litter, living plant material, algae, fungi, bacteria and other microorganisms, and decaying roots.

(3) Critical habitat does not include manmade structures (such as buildings, aqueducts, roads, and other paved areas) and the land on which they are located existing within the legal boundaries on the effective date of this rule. Where lakes are designated, critical habitat is only designated for areas where springs occur and does not include areas of the lake bottom beyond a radius of 50 ft (15.2 m) from the spring outlet.

(4) *Critical habitat map units.* Data layers defining map units were created by using ArcGIS. All coordinates are UTM zone 14 coordinate pairs, referenced to North American Horizontal Datum 1983. Coordinates were derived from 2004 digital orthophotographs. All acreage and mileage calculations were performed using GIS.

(5) Note: Index map (Map 1) follows:

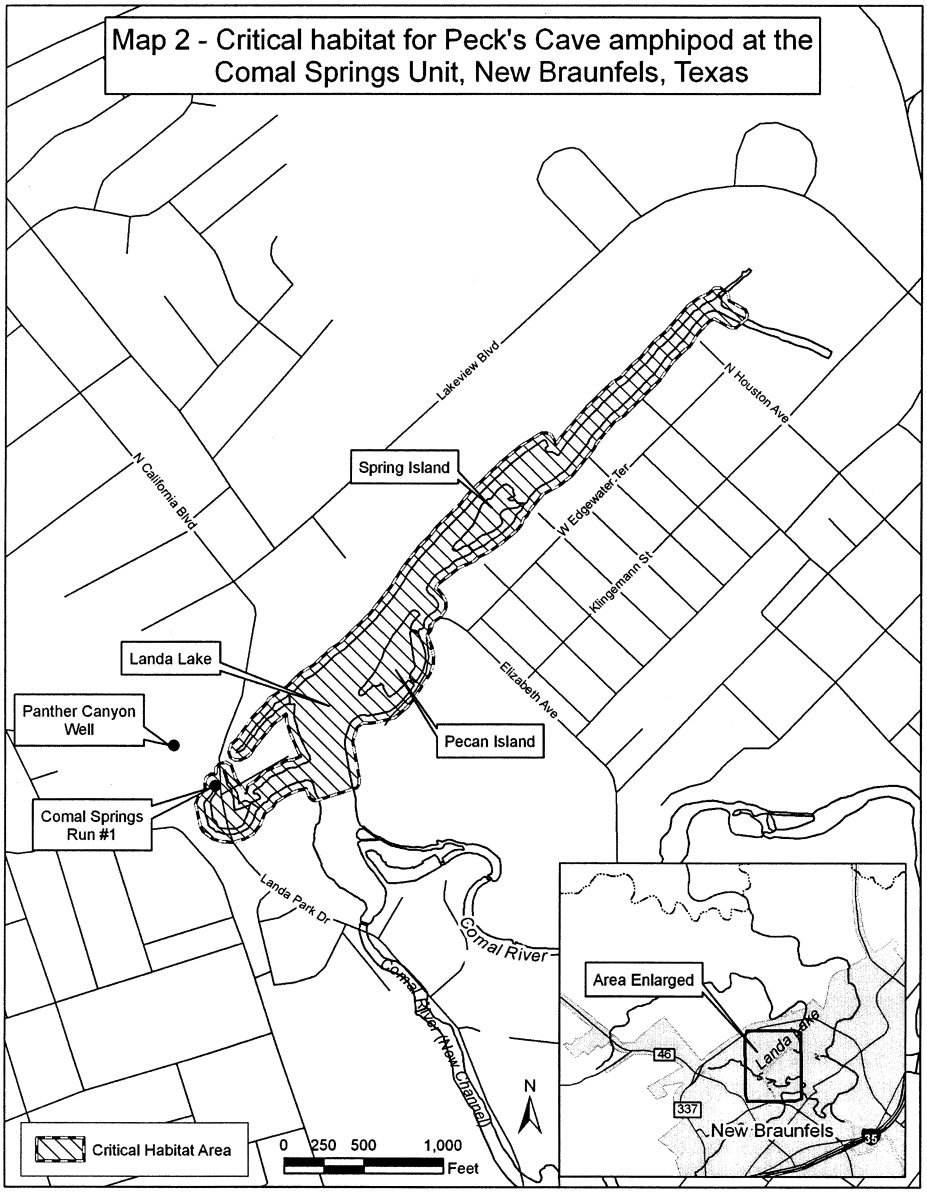


(6) Comal Springs Unit, Comal County, Texas.

(i) Aquatic habitat areas bounded by the UTM Zone 14 NAD 83 coordinates (meters E, meters N): 583387, 3287251; 583392, 3287264; 583405, 3287280; 583404, 3287290; 583407, 3287301; 583414, 3287307; 583425, 3287308; 583425, 3287320; 583433, 3287328; 583444, 3287330; 583454, 3287325; 583463, 3287301; 583482, 3287272; 583486, 3287286; 583501, 3287296; 583520, 3287314; 583547, 3287326;

583557, 3287333; 583572, 3287335; 583586, 3287342; 583567, 3287387; 583560, 3287408; 583559, 3287423; 583534, 3287403; 583499, 3287359; 583491, 3287347; 583484, 3287340; 583471, 3287334; 583461, 3287334; 583452, 3287340; 583450, 3287350; 583454, 3287364; 583465, 3287374; 583494, 3287415; 583521, 3287443; 583526, 3287453; 583563, 3287477; 583589, 3287503; 583613, 3287519; 583643, 3287547; 583662, 3287561; 583719, 3287617; 583759, 3287669; 583780, 3287701; 583811, 3287743; 583833, 3287764; 583848, 3287784; 583892, 3287826; 583911, 3287850; 583970, 3287907; 584008, 3287938; 584047, 3287963; 584055, 3287964; 584065, 3287960; 584073, 3287948; 584074, 3287941; 584081, 3287952; 584131, 3288011; 584164, 3288044; 584183, 3288062; 584197, 3288071; 584216, 3288093; 584236, 3288110; 584258, 3288138; 584284, 3288161; 584325, 3288209; 584343, 3288223; 584364, 3288233; 584375, 3288243; 584386, 3288244; 584401, 3288234; 584403, 3288218; 584433, 3288201; 584437, 3288193; 584436, 3288184; 584416, 3288167; 584405, 3288167; 584375, 3288184; 584365, 3288180; 584344, 3288156; 584329, 3288131; 584320, 3288125; 584298, 3288103; 584273, 3288067; 584204, 3287997; 584187, 3287985; 584176, 3287973; 584152, 3287943; 584147, 3287933; 584105, 3287880; 584080, 3287862; 584049, 3287844; 584026, 3287815; 584021, 3287805; 584013, 3287798; 584009, 3287787; 583999, 3287775; 583971, 3287751; 583947, 3287735; 583927, 3287725; 583920, 3287718; 583890, 3287704; 583850, 3287673; 583845, 3287665; 583851, 3287662; 583860, 3287650; 583865, 3287640; 583865, 3287629; 583863, 3287622; 583854, 3287609; 583840, 3287600; 583836, 3287584; 583829, 3287576; 583838, 3287552; 583841, 3287535; 583841, 3287520; 583835, 3287501; 583804, 3287452; 583790, 3287435; 583766, 3287416; 583727, 3287406; 583706, 3287406; 583695, 3287398; 583686, 3287370; 583699, 3287298; 583698, 3287288; 583694, 3287282; 583617, 3287257; 583610, 3287258; 583605, 3287262; 583597, 3287280; 583584, 3287277; 583565, 3287270; 583541, 3287255; 583534, 3287244; 583518, 3287233; 583510, 3287211; 583496, 3287192; 583480, 3287183; 583459, 3287177; 583436, 3287178; 583419, 3287184; 583400, 3287198; 583396, 3287205; 583387, 3287251.

(ii) Note: Comal Springs Unit (Map 2) follows:



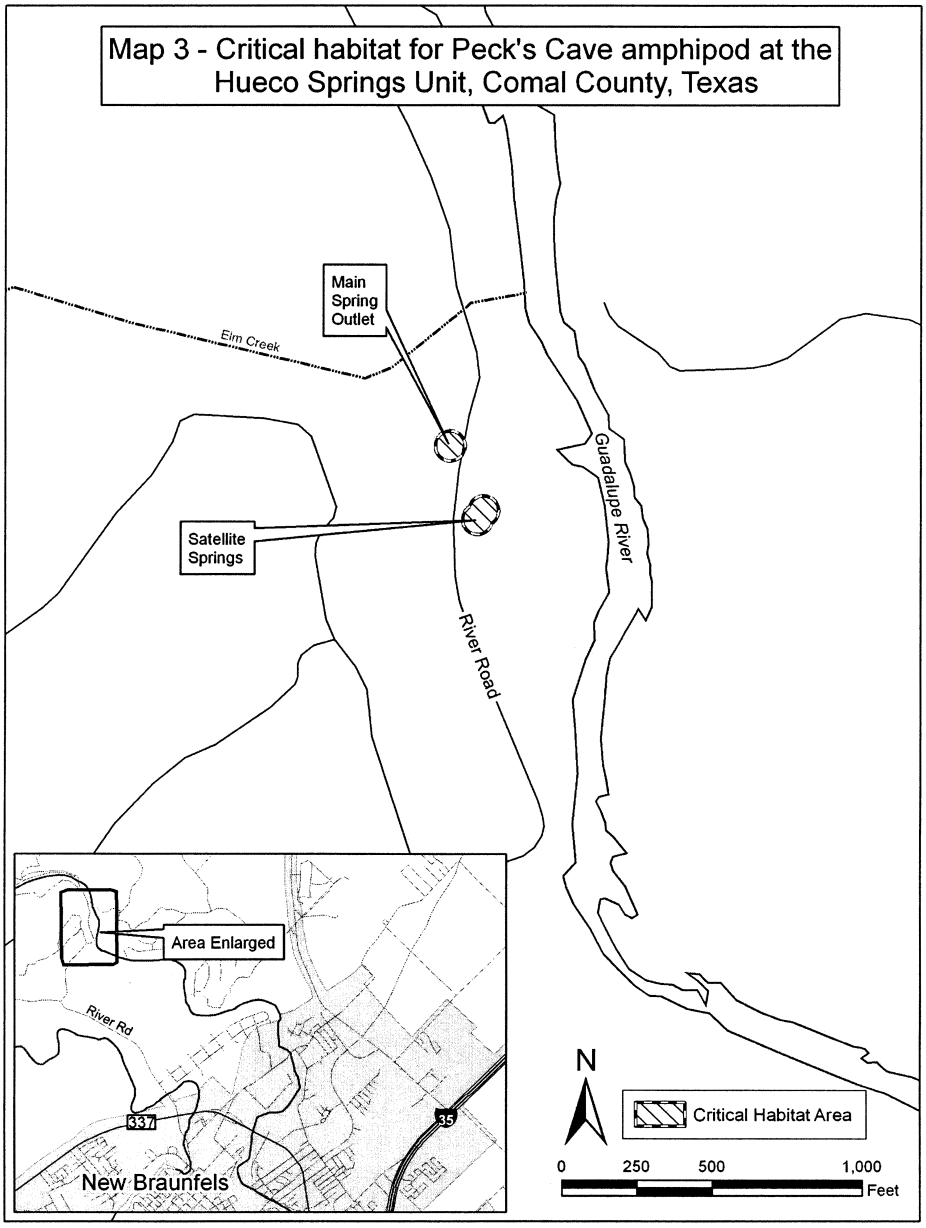
(7) Hueco Springs Unit, Comal County, Texas.

(i) Aquatic habitat areas bounded by the UTM Zone 14 NAD 83 coordinates (meters E, meters N): 583113, 3292498; 583114, 3292498; 583115, 3292498; 583116, 3292498; 583117, 3292498; 583118, 3292497; 583119, 3292497; 583120, 3292497; 583120, 3292496; 583121, 3292496; 583122, 3292495; 583123, 3292495; 583124, 3292494; 583124, 3292493; 583125, 3292493; 583126, 3292492; 583126, 3292491; 583127, 3292490; 583127, 3292489; 583127, 3292489; 583128, 3292488; 583128, 3292487; 583128, 3292486; 583128, 3292485; 583128, 3292484; 583128, 3292483; 583128, 3292482; 583128, 3292481; 583128, 3292480;

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(ii) Aquatic habitat areas bounded by the UTM Zone 14 NAD 83 coordinates (meters E, meters N): 583132, 3292420; 583133, 3292421; 583133, 3292421; 583133, 3292422; 583134, 3292423; 583134, 3292424; 583134, 3292425; 583135, 3292426; 583136, 3292426; 583136, 3292427; 583137, 3292428; 583138, 3292428; 583138, 3292429; 583139, 3292430; 583140, 3292430; 583141, 3292430; 583142, 3292431; 583143, 3292431; 583143, 3292431; 583144, 3292432; 583145, 3292432; 583146, 3292432; 583147, 3292432; 583148, 3292432; 583149, 3292432; 583150, 3292432; 583151, 3292432; 583152, 3292431; 583153, 3292431; 583154, 3292431; 583155, 3292430; 583155, 3292430; 583156, 3292429; 583157, 3292429; 583158, 3292428; 583158, 3292427; 583159, 3292427; 583160, 3292426; 583160, 3292425; 583161, 3292424; 583161, 3292423; 583162, 3292422; 583162, 3292422; 583162, 3292421; 583162, 3292420; 583163, 3292419; 583163, 3292418; 583163, 3292417; 583163, 3292416; 583163, 3292415; 583162, 3292414; 583162, 3292413; 583162, 3292412; 583162, 3292411; 583161, 3292410; 583161, 3292409; 583160, 3292409; 583160, 3292408; 583159, 3292407; 583159, 3292406; 583158, 3292406; 583157, 3292405; 583156, 3292404; 583156, 3292404; 583156, 3292403; 583155, 3292402; 583155, 3292402; 583155, 3292401; 583154, 3292400; 583154, 3292399; 583153, 3292398; 583152, 3292398; 583152, 3292397; 583151, 3292396; 583150, 3292396; 583149, 3292395; 583149, 3292395; 583148, 3292394; 583147, 3292394; 583146, 3292393; 583145, 3292393; 583144, 3292393; 583143, 3292393; 583142, 3292393; 583141, 3292393; 583140, 3292393; 583139, 3292393; 583138, 3292393; 583137, 3292393; 583137, 3292393; 583136, 3292394; 583135, 3292394; 583134, 3292395; 583133, 3292395; 583132, 3292396; 583132, 3292396; 583131, 3292397; 583130, 3292397; 583129, 3292398; 583129, 3292399; 583128, 3292400; 583128, 3292400; 583127, 3292401; 583127, 3292402; 583127, 3292403; 583126, 3292404; 583126, 3292405; 583126, 3292406; 583126, 3292407; 583126, 3292408; 583126, 3292409; 583126, 3292410; 583126, 3292411; 583126, 3292412; 583127, 3292413; 583127, 3292413; 583127, 3292414; 583128, 3292415; 583128, 3292416; 583129, 3292417; 583129, 3292418; 583130, 3292418; 583131, 3292419; 583131, 3292420; 583132, 3292420.

(iii) Note: Hueco Springs Unit (Map 3) follows:



CONSERVANCY FAIRY SHRIMP (*Branchinecta conservatio*).

(1) Critical habitat units are depicted for Butte, Colusa, Mariposa, Merced, Solano, Stanislaus, Tehama, and Ventura Counties, California, on the maps below.

(2) The primary constituent elements of critical habitat for Conservancy fairy shrimp (*Branchinecta conservatio*) are the habitat components that provide:

(i) Topographic features characterized by mounds and swales and depressions within a matrix of surrounding uplands that result in complexes of continuously, or intermittently, flowing surface water in the swales connecting the pools described below in paragraph (2)(ii), providing for dispersal and promoting hydroperiods of adequate length in the pools;

(ii) Depressional features including isolated vernal pools with underlying restrictive soil layers that become inundated during winter rains and that continuously hold water for a minimum of 19 days, in all but the driest years; thereby providing adequate water for incubation, maturation, and reproduction. As these features are inundated on a seasonal basis, they do not promote the development of obligate wetland vegetation habitats typical of permanently flooded emergent wetlands;

(iii) Sources of food, expected to be detritus occurring in the pools, contributed by overland flow from the pools' watershed, or the results of biological processes within the pools themselves, such as single-celled bacteria, algae, and dead organic matter, to provide for feeding; and

(iv) Structure within the pools described above in paragraph (2)(ii), consisting of organic and inorganic materials, such as living and dead plants from plant species adapted to seasonally inundated environments, rocks, and other inorganic debris that may be washed, blown, or otherwise transported into the pools, that provide shelter.

(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) Unit 1 Tehama County, California.

(i) Unit 1A: Tehama County, California. From USGS 1:24,000 topographic quadrangles Richardson Springs, and Acorn Hollow. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 588739, 4429822; 588900, 4429500; 589500, 4429500; 589500, 4428600; 589500, 4428000; 589800, 4427100; 590500, 4426400; 590500, 4425300; 591200, 4424400; 591500, 4423300; 591562, 4422558; 590526, 4423686; 589986, 4424273; 589816, 4424458; 589129, 4425207; 588454, 4426221; 588425, 4426265; 588279, 4426485; 588213, 4426583; 588213, 4426584; 588600, 4429100; 588733, 4429833; returning to 588739, 4429822.

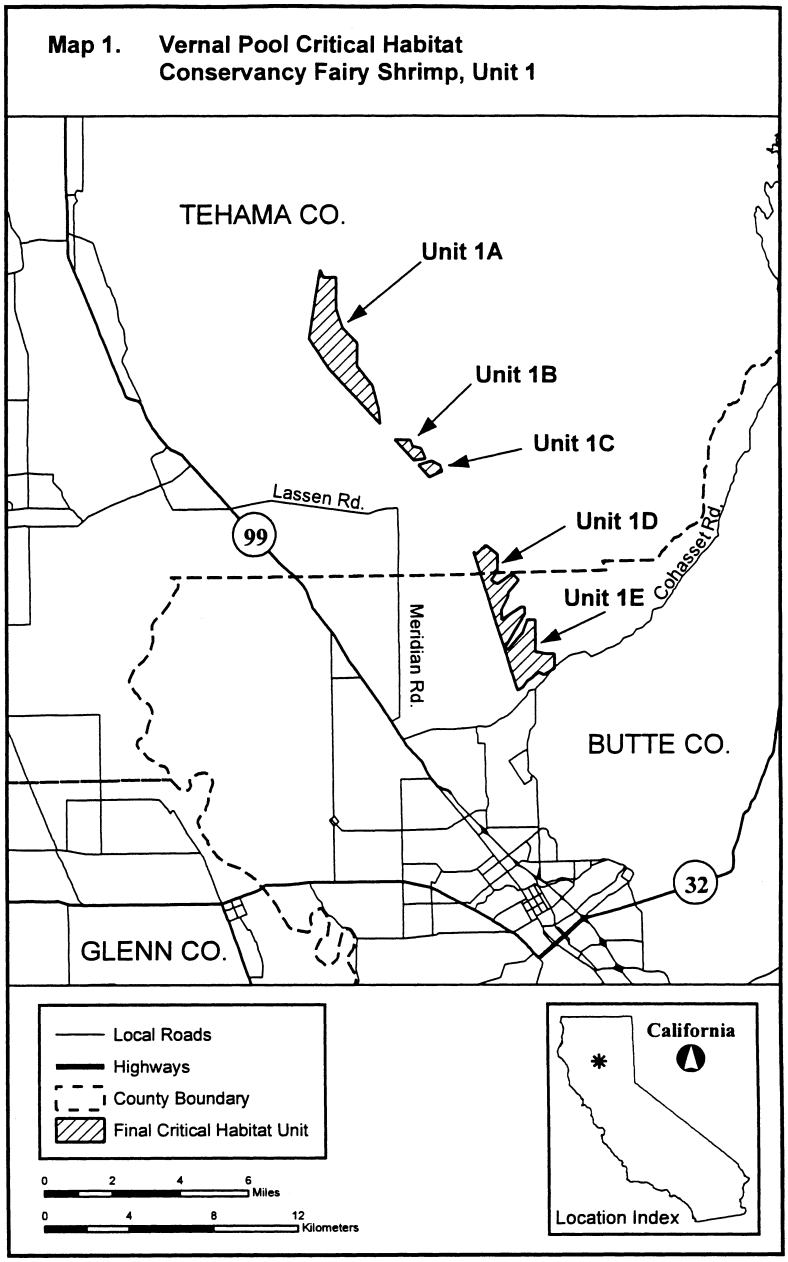
(ii) Unit 1B: Tehama County, California. From USGS 1:24,000 topographic quadrangle Richardson Springs NW. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 593700, 4420900; 593164, 4420815; 592329, 4421723; 592258, 4421800; 593000, 4421800; 593100, 4421500; 593500, 4421400; returning to 593700, 4420900.

(iii) Unit 1C: Tehama County, California. From USGS 1:24,000 topographic quadrangle Richardson Springs NW. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 594500, 4420300; 593881, 4420035; 593371, 4420590; 594000, 4420800; 594400, 4420600; returning to 594500, 4420300.

(iv) Unit 1D: Tehama County, and Butte County, California. From USGS 1:24,000 topographic quadrangles Richardson Springs NW, Campbell Mound, Richardson Springs. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 597100, 4416400; 597100, 4415600; 597044, 4415525; 596800, 4415200; 597100, 4415000; 597800, 4415500; 598100, 4415200; 597600, 4414600; 597600, 4414400; 597300, 4413800; 597300, 4413300; 598200, 4413900; 598400, 4413900; 598400, 4413600; 597422, 4411938; 597281, 4412382; 596959, 4413403; 596640, 4414416; 596620, 4414481; 596305, 4415484; 596303, 4415489; 596130, 4416040; 596091, 4416160; 596028, 4416358; 596011, 4416411; 595993, 4416465; 595982, 4416500; 596000, 4416500; 596100, 4416400; 596200, 4416500; 596300, 4416600; 596400, 4416700; 596500, 4416700; 596500, 4416800; 596600, 4416800; returning to 597100, 4416400.

(v) Unit 1E: Butte County, California. From USGS 1:24,000 topographic quadrangles Richardson Springs. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 598900, 4411800; 599400, 4411700; 599800, 4411700; 599800, 4411000; 599300, 4410700; 599100, 4410800; 599000, 4410800; 598800, 4410600; 598500, 4410400; 598300, 4410100; 598100, 4410000; 598070, 4409970; 598051, 4409993; 598038, 4410010; 598014, 4410083; 597806, 4410737; 597725, 4410990; 597461, 4411816; 597434, 4411900; 597600, 4411900; 598300, 4412700; 598500, 4413300; 598900, 4413300; returning to 598900, 4411800.

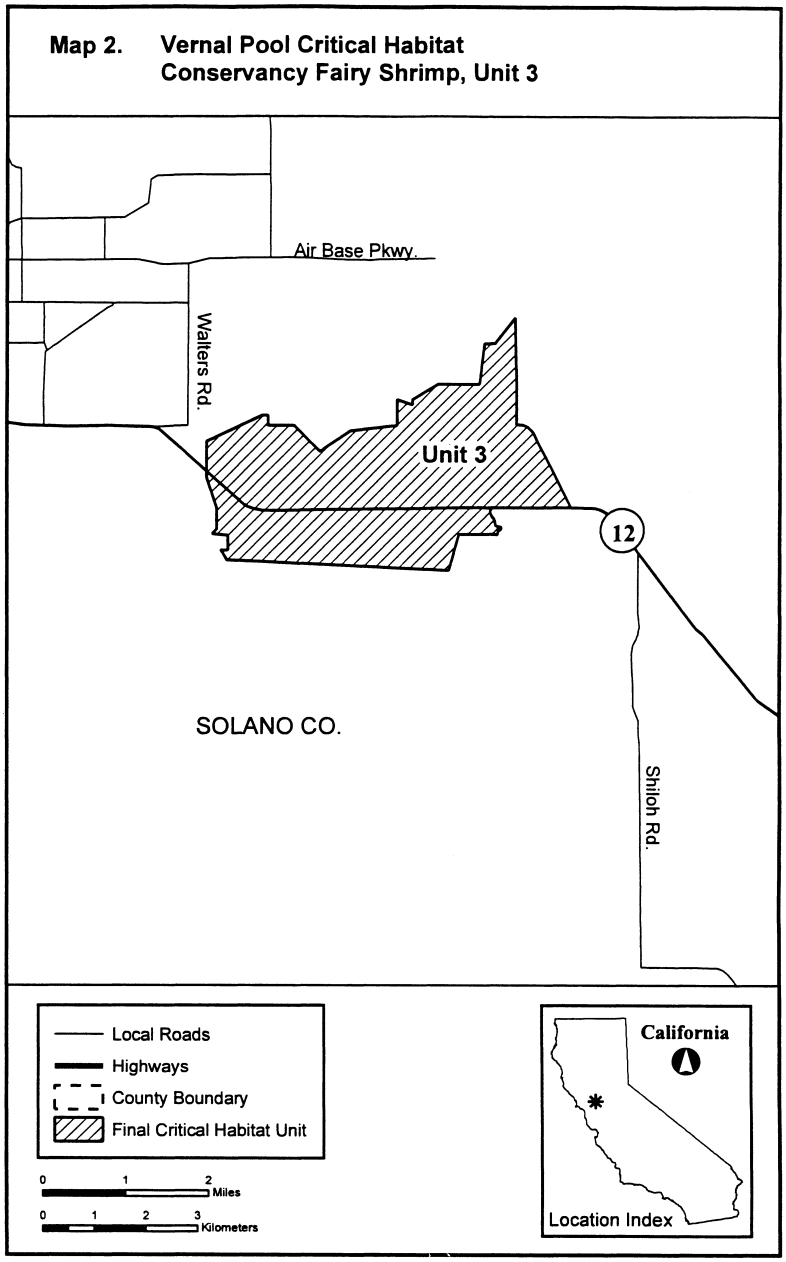
(vi) NOTE: Unit 1 (Map 1) follows:



(5) Unit 3: Solano County, California. From USGS 1:24,000 topographic quadrangles Elmira, and Denverton. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 594915, 4234098; 594916, 4233314; 595044, 4233310; 595068, 4233296; 595131, 4233266; 595174, 4233226; 595189, 4233210; 595239, 4233151; 595322, 4232978; 595423, 4232778; 595483, 4232667; 595553,

4232524; 595699, 4232243; 595966, 4231717; 594927, 4231710; 594445, 4231707; 594409, 4231673; 594410, 4231616; 594434, 4231540; 594474, 4231494; 594495, 4231457; 594497, 4231414; 594510, 4231370; 594543, 4231356; 594575, 4231342; 594603, 4231341; 594614, 4231338; 594616, 4231325; 594618, 4231311; 594614, 4231290; 594605, 4231284; 594583, 4231275; 594573, 4231268; 594557, 4231245; 594550, 4231209; 594543, 4231179; 594500, 4231200; 593800, 4231200; 593600, 4230500; 593291, 4230515; 593291, 4230514; 589300, 4230700; 589179, 4230901; 589179, 4230901; 589240, 4230894; 589274, 4230890; 589315, 4230894; 589321, 4230909; 589313, 4231179; 589015, 4231215; 589100, 4231300; 589100, 4231700; 588900, 4232300; 588900, 4233000; 589983, 4233500; 590000, 4233500; 590100, 4233500; 590100, 4233300; 590600, 4233300; 591100, 4232800; 591138, 4232825; 591143, 4232820; 591184, 4232856; 591700, 4233200; 592513, 4233290; 592594, 4233291; 592594, 4233299; 592600, 4233300; 592600, 4233800; 592900, 4233700; 592900, 4233751; 592901, 4233751; 592900, 4233754; 592900, 4233800; 593400, 4234100; 594200, 4234100; 594300, 4234900; 594500, 4234900; 594890, 4235396; returning to 594915, 4234098.

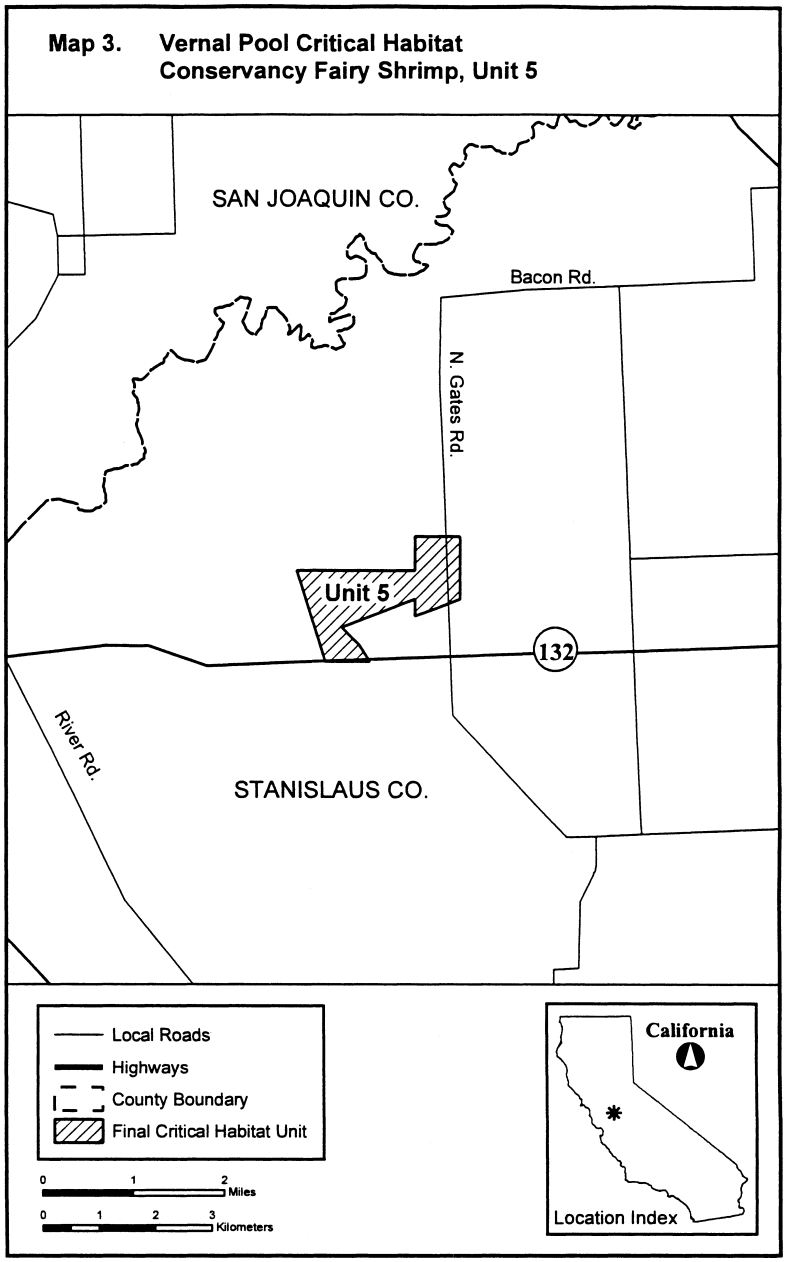
(6) NOTE: Unit 3 (Map 2) follows:



(7) Unit 5: Stanislaus County, California. From USGS 1:24,000 topographic quadrangle Ripon. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 662400, 4168300; 661600, 4168000; 661600, 4168300; 660300, 4167800; 660600, 4167500; 660800, 4167200; 660000, 4167200; 659500, 4168800; 661600, 4168800; 661600,

4169400; 662400, 4169400; returning to 662400, 4168300.

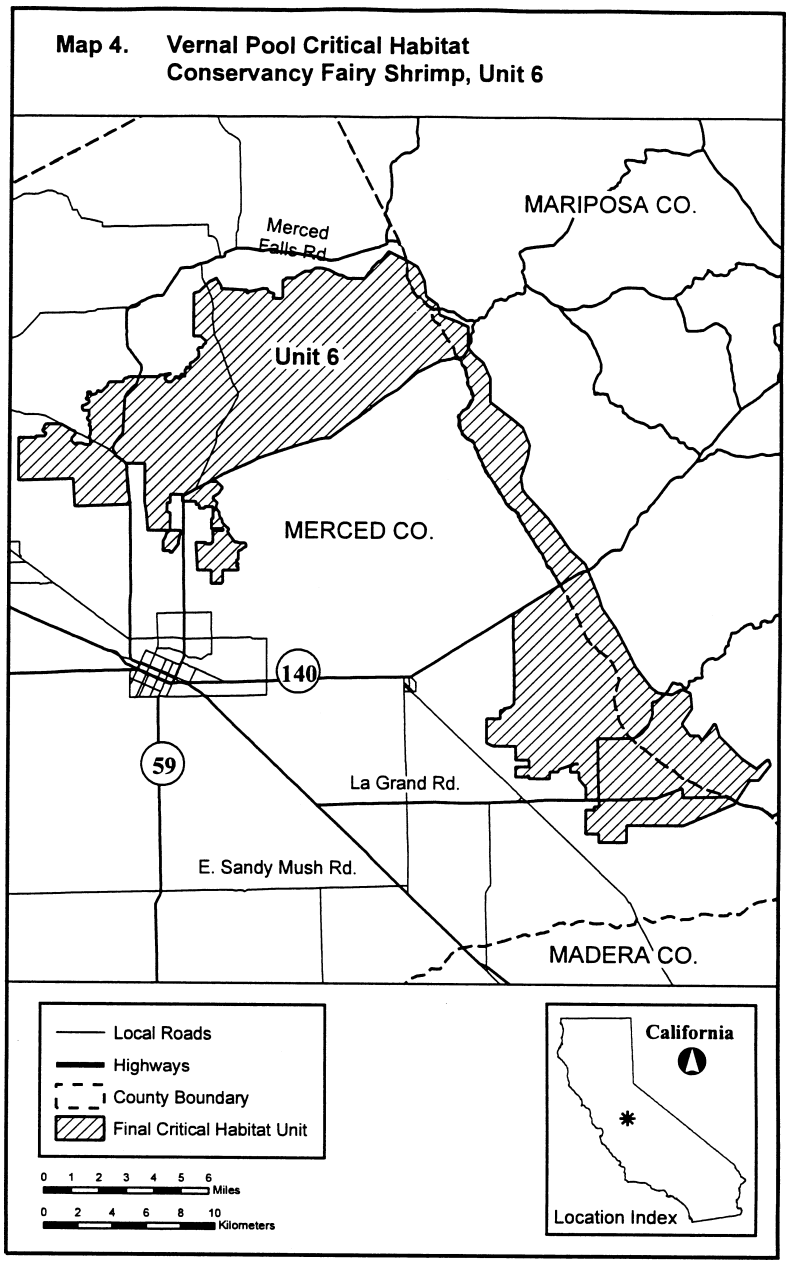
(8) NOTE: Unit 5 (Map 3) follows:



(9) Unit 6: Merced County, and Mariposa County, California. From USGS 1:24,000 topographic quadrangles Snelling, Merced Falls, Winton, Yosemite Lake, Haystack Mtn. Indian Gulch, Merced, Planada, Owens Reservoir, Illinois Hill, Plainsburg, Le Grand, and Raynor Creek. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 747003, 4125902; 747142, 4125971; 747303, 4125987; 747358, 4126000; 747200, 4126000; 747142, 4125971; 747123, 4125969; 747070, 4125950; 747003, 4125902; 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; 743600, 4127000; 742700, 4127000; 742400, 4127000; 742000, 4127200; 742000, 4128600; 742800, 4128600; 742800, 4129100; 742900, 4129100; 743000, 4129100; 743000, 4129200; 743400, 4129300; 743600, 4129500; 743600, 4130284; 743605, 4130284; 743600, 4130493; 743600, 4130700; 743595, 4130700; 743561, 4132097; 743560, 4132170; 743556, 4132335; 743549, 4132692; 743537, 4133202; 743529, 4133301; 743531, 4133352; 743530, 4133400; 743523, 4133729; 743518, 4134016; 743515, 4134159; 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(10) NOTE: Unit 6 (Map 4) follows:



(11) Unit 7: Merced County, California.

(i) Unit 7A: Merced County, California. From USGS 1:24,000 topographic quadrangles Gustine, Stevinson, San Luis Ranch. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 688300, 4129000; 688600, 4128800; 689100, 4128900; 689200, 4128800; 689400, 4128600; 689800, 4128500; 689900, 4128300; 690200,

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(ii) Unit 7B: Merced County, California. From USGS 1:24,000 topographic quadrangles Stevinson, San Luis Ranch. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 695400, 4125600; 695500, 4122000; 694900, 4122400; 694700, 4122700; 694500, 4122900; 694500, 4123100; 694100, 4123400; 693800, 4123500; 693800, 4123800; 693500, 4123900; 693500, 4124500; 693700, 4124700; 693800, 4125000; 693600, 4125200; 693400, 4125300; 693122, 4125670; 693100, 4125700; 693146, 4125746; 693200, 4125800; 693700, 4125900; 693700, 4127300; 693800, 4127300; 693900, 4127000; 694200, 4126900; 694600, 4126400; 694600, 4126200; 694700, 4126000; 695179, 4125726; returning to 695400, 4125600.

(iii) Unit 7C: Merced County, California. From USGS 1:24,000 topographic quadrangles Stevinson, Arena, San Luis Ranch, Turner Ranch: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 699300, 4126300; 699300, 4125400; 700100, 4125400; 700200, 4126000; 700600, 4125700; 701100, 4125300; 701100, 4124300; 700300, 4124300; 700300, 4123800; 700500, 4123800; 700600, 4123500; 701100, 4123400; 701200, 4123200; 701400, 4123100; 701600, 4122700; 701900, 4122500; 702600, 4122200; 702870, 4121705; 703200, 4121100; 703900, 4120500; 704600, 4119800; 704600, 4119800; 704700, 4119700; 698900, 4119600; 698800, 4119700; 698543, 4119957; 698558, 4119970; 698501, 4120012; 698504, 4120069; 698626, 4120197; 698662, 4120077; 698694, 4120113; 698668, 4121116; 698663, 4121510; 698594, 4121508; 698600, 4121600; 699900, 4121600; 700000, 4120400; 700200, 4120400; 700200, 4122700; 697000, 4122600; 696900, 4125100; 697700, 4125100; 697700, 4125300; 697600, 4125400; 697700, 4125600; 698000, 4125700; 698200, 4125800; 698300, 4126100; 698700, 4126500; 699500, 4126500; 699600, 4126300; returning to 699300, 4126300.

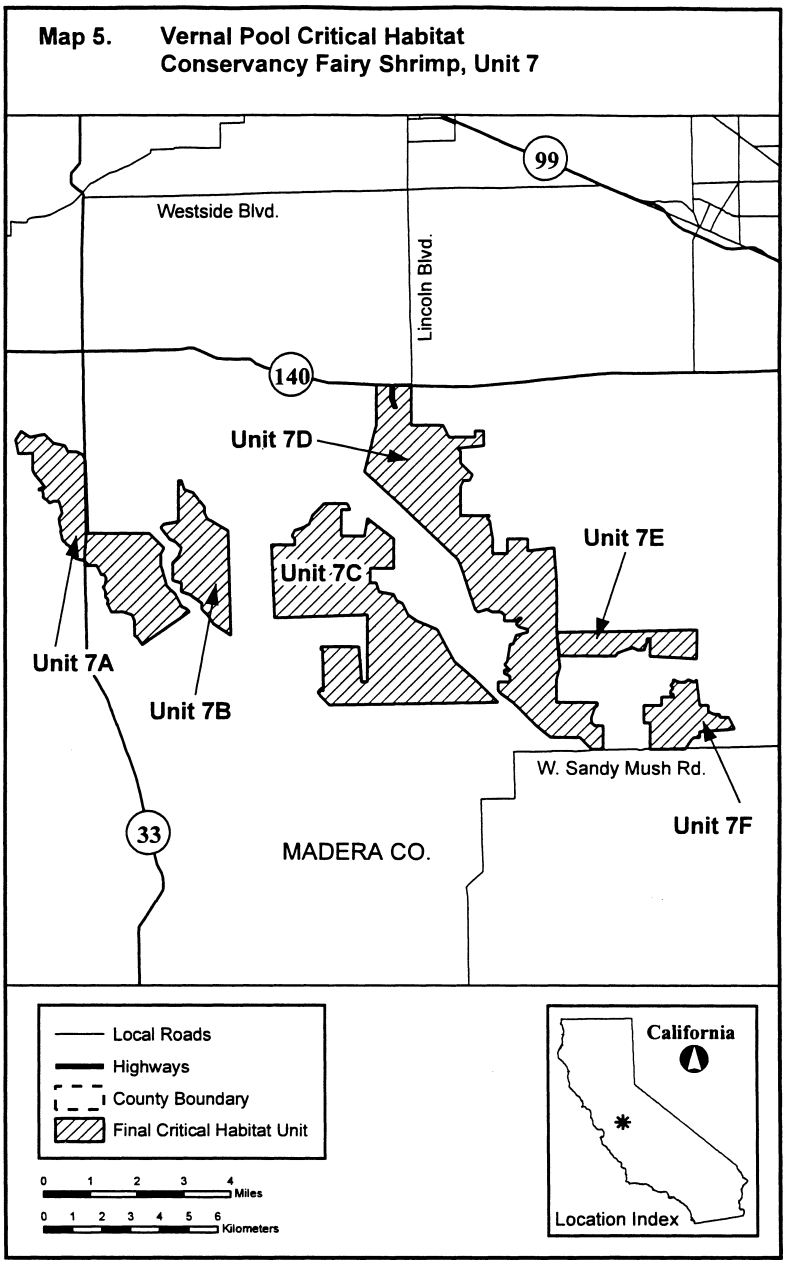
(iv) Unit 7D: Merced County, California. From USGS 1:24,000 scale quadrangles Arena, Turner Ranch. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 706700, 4122100; 706800, 4120900; 706700, 4120500; 706700, 4119700; 708100, 4119700; 708100, 4119600; 708000, 4119500; 707900, 4119200; 707900, 4119000; 708000, 4118900; 708300, 4118900; 708300, 4118100; 707900, 4118100; 707500, 4118500; 706500, 4118500; 706000, 4118900; 705600, 4119300; 705200, 4119700; 704800, 4120000; 704700, 4120100; 704700, 4120400; 705100, 4120400; 705100, 4120600; 704900, 4120700; 704900, 4120800; 705100, 4120800; 704900, 4121000; 705000, 4121100; 705100, 4121700; 705200, 4121700; 705300, 4122000; 705700, 4122100; 705700, 4122200; 705400, 4122300; 705300, 4122400; 705500, 4122600; 705400, 4122600; 705300, 4122500; 705200, 4122500; 705100, 4122500; 704900, 4122500; 704900, 4122700; 704800, 4122800; 704500, 4122800; 704300, 4122900; 704000, 4122800; 703900, 4122900; 703400, 4124400; 703300, 4124600; 701300, 4126500; 700100, 4127600; 700467, 4129067; 700500, 4129200; 700500, 4130600; 701000, 4130600; 701000, 4130100; 701100, 4129800; 701200, 4129800; 701100, 4130100; 701100, 4130600; 701700, 4130600; 701700, 4129200; 701800, 4129200; 702800, 4129200; 703000, 4128800; 703300, 4128800; 703900, 4128800; 703900, 4129000; 704200, 4129000; 704200, 4128500; 703300, 4128400; 703400, 4128300; 703400, 4127900; 703500, 4127800; 703800, 4127500; 703700, 4127300; 703500, 4127300; 703400, 4127100; 703400, 4126100; 703500, 4126100; 704400, 4126100; 704300, 4126000; 704400, 4125900; 704500, 4125300; 704500, 4124800; 705000, 4124800; 705000, 4125300; 705700, 4125300; 705700, 4124900; 706600, 4125000; 706700, 4123700; returning to 706700, 4122100.

(v) Unit 7E: Merced County, California. From USGS 1:24,000 scale quadrangles Turner Ranch, Sandy Mush. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 706700, 4122100; 711500, 4122200; 711500, 4121700; 711500, 4121200; 709900, 4121300; 709900, 4121900; 709800, 4121900; 709800, 4121800; 709700, 4121500; 709500, 4121500; 709300, 4121600; 708800, 4121400; 708700, 4121300; 706800, 4121300; returning to 706700, 4122100.

(vi) Unit 7F: Merced County, California. From USGS 1:24,000 scale quadrangles Turner Ranch, Sandy Mush. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 711200, 4120500; 711400, 4120400; 711500, 4120500; 711600, 4119600; 711900, 4119600; 711900, 4119400; 712100, 4119300; 712300, 4119300; 712300, 4119200; 712600, 4119200; 712800, 4118800; 711600, 4118700; 711600, 4118500; 711400, 4118500; 711300,

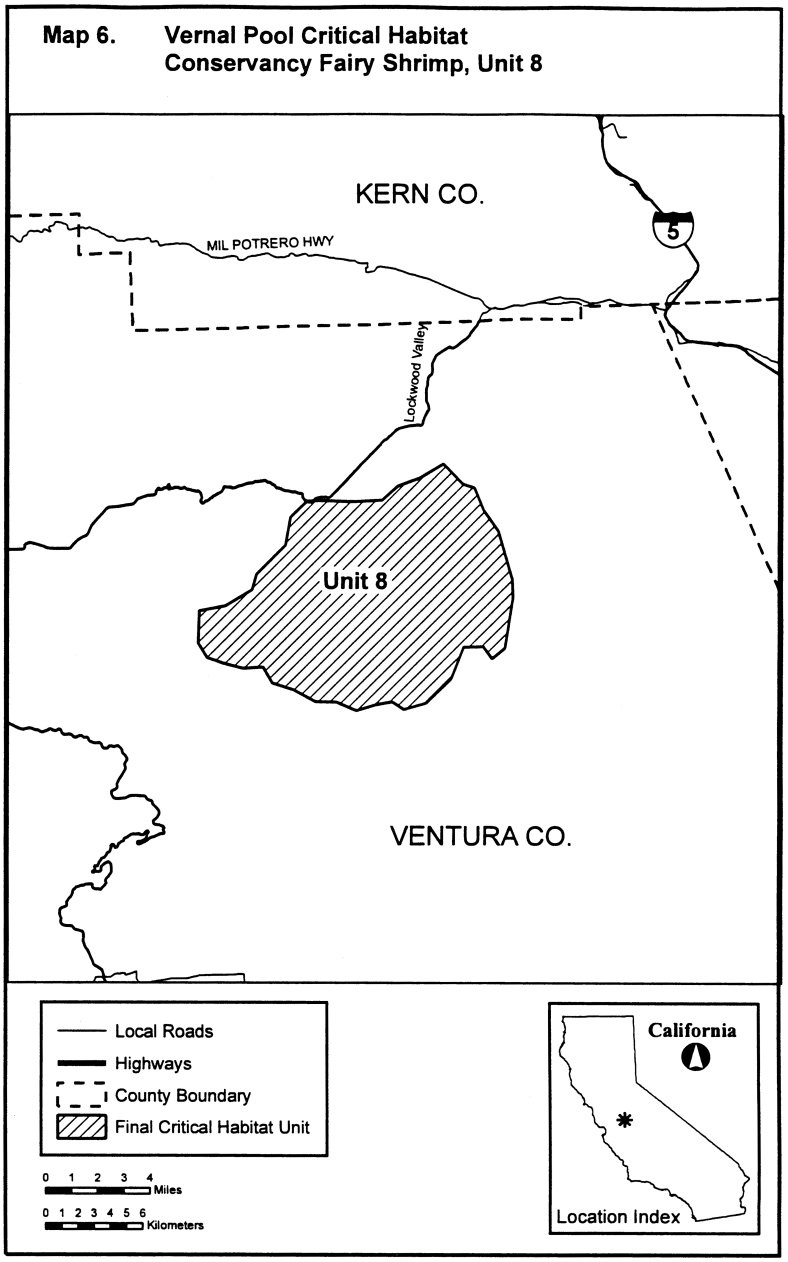
4118400; 711100, 4118100; 709900, 4118100; 709900, 4118800; 709900, 4119000; 709700, 4119000; 709700, 4119600; 710300, 4119600; 710300, 4119900; 710700, 4119900; 710700, 4120000; 710600, 4120000; 710600, 4120100; 710700, 4120200; 710600, 4120300; 710700, 4120400; 710700, 4120500; 710900, 4120400; 711100, 4120400; returning to 711200, 4120500.

(vii) NOTE: Unit 7 (Map 5) follows:



(12) Unit 8: Ventura County, California. From USGS 1:24,000 scale quadrangles San Guillermo, Lockwood Valley, Alamo Mountain, Lion Canyon, Topatopa Mountains. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 864689, 3849170; 865272, 3847801; 866149, 3846550; 867028, 3843593; 867093, 3842494; 867037, 3842150; 866579, 3839353; 865815, 3838706; 865267, 3839476; 864068, 3839404; 863282, 3837452; 861766, 3835957; 860385, 3835574; 859656, 3836032; 858662, 3835872; 857481, 3835501; 856246, 3836030; 854941, 3836052; 853594, 3836774; 852265, 3837196; 851706, 3838166; 850507, 3838094; 849284, 3838422; 848261, 3838762; 847708, 3839632; 847788, 3841642; 849375, 3841937; 851020, 3842938; 851266, 3843856; 853063, 3845668; 853362, 3847390; 854407, 3848355; 855307, 3848409; 857217, 3848323; 859016, 3848430; 859968, 3849289; 861343, 3849773; 862794, 3850662; 863971, 3849428; returning to 864689, 3849170.

(13) NOTE: Unit 8 (Map 6) follows:



LONGHORN FAIRY SHRIMP (*Branchinecta longiantenna*)

(1) Critical habitat units are depicted for Alameda, Contra Costa, Merced, and San Luis Obispo Counties, California, on the map below.

(2) The primary constituent elements of critical habitat for longhorn fairy shrimp

(*Branchinecta longiantenna*) are the habitat components that provide:

(i) Topographic features characterized by mounds and swales and depressions within a matrix of surrounding uplands that result in complexes of continuously, or intermittently, flowing surface water in the swales connecting the pools described below in paragraph (2)(ii), providing for dispersal and promoting hydroperiods of adequate length in the pools;

(ii) Depressional features including isolated vernal pools with underlying restrictive soil layers that become inundated during winter rains and that continuously hold water for a minimum of 23 days, in all but the driest years; thereby providing adequate water for incubation, maturation, and reproduction. As these features are inundated on a seasonal basis, they do not promote the development of obligate wetland vegetation habitats typical of permanently flooded emergent wetlands;

(iii) Sources of food, expected to be detritus occurring in the pools, contributed by overland flow from the pools' watershed, or the results of biological processes within the pools themselves, such as single-celled bacteria, algae, and dead organic matter, to provide for feeding; and

(iv) Structure within the pools described above in paragraph (2)(ii), consisting of organic and inorganic materials, such as living and dead plants from plant species adapted to seasonally inundated environments, rocks, and other inorganic debris that may be washed, blown, or otherwise transported into the pools, that provide shelter.

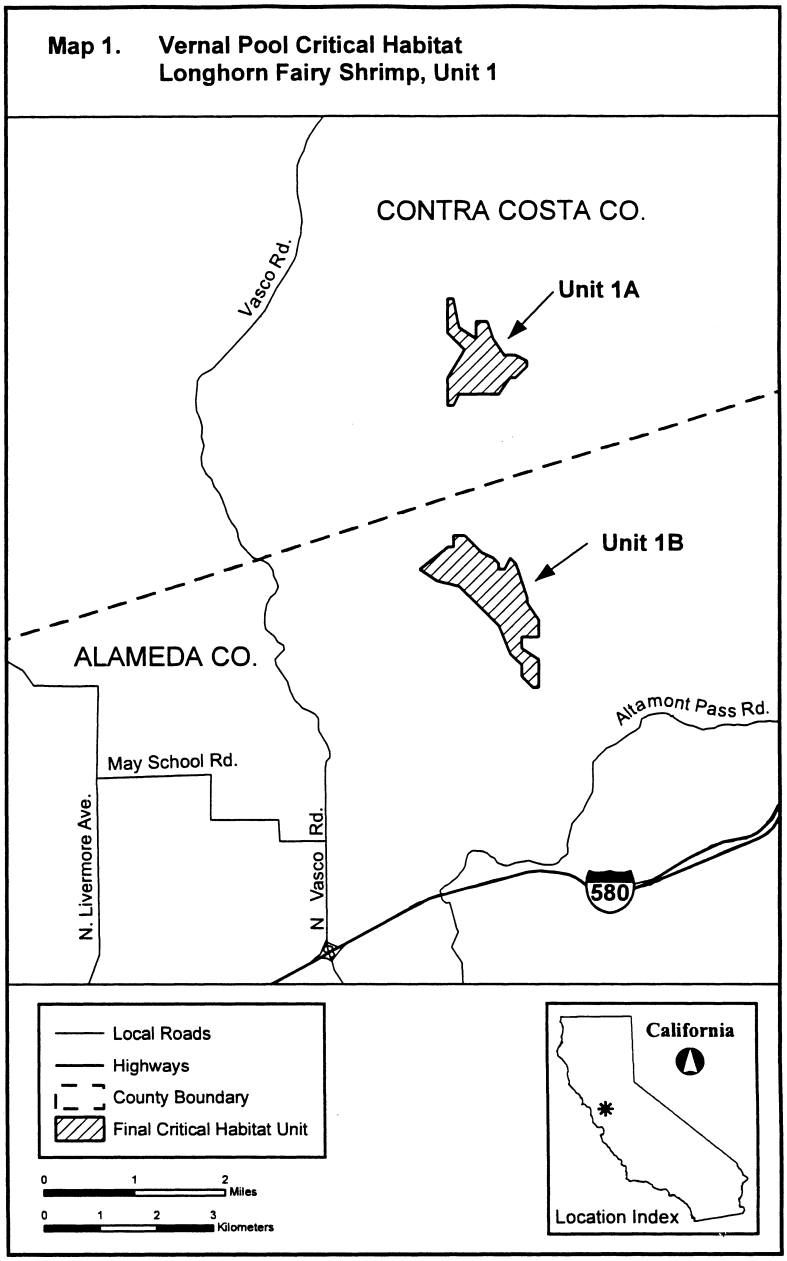
(3) Existing manmade features and structures, such as buildings, roads, railroads, airports, runways, other paved areas, lawns, and other urban landscaped areas do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Unit 1: Contra Costa County.

(i) Unit 1A: Contra Costa County. USGS 24,000 topographic quad Byron Hot Springs: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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; 614700, 4184000; 614600, 4184000; 614600, 4184500; 614900, 4185000; 614600, 4185300; 614600, 4185900; 614700, 4185900; returning to 614800, 4185400.

(ii) Unit 1B: Alameda County. USGS 24,000 topographic quad Byron Hot Springs: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 615500, 4181200; 615500, 4181100; 615600, 4181100; 615700, 4181300; 615800, 4181200; 616000, 4180600; 616000, 4180500; 616200, 4180200; 616200, 4179900; 615900, 4179900; 615900, 4179700; 616200, 4179500; 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; returning to 615500, 4181200.

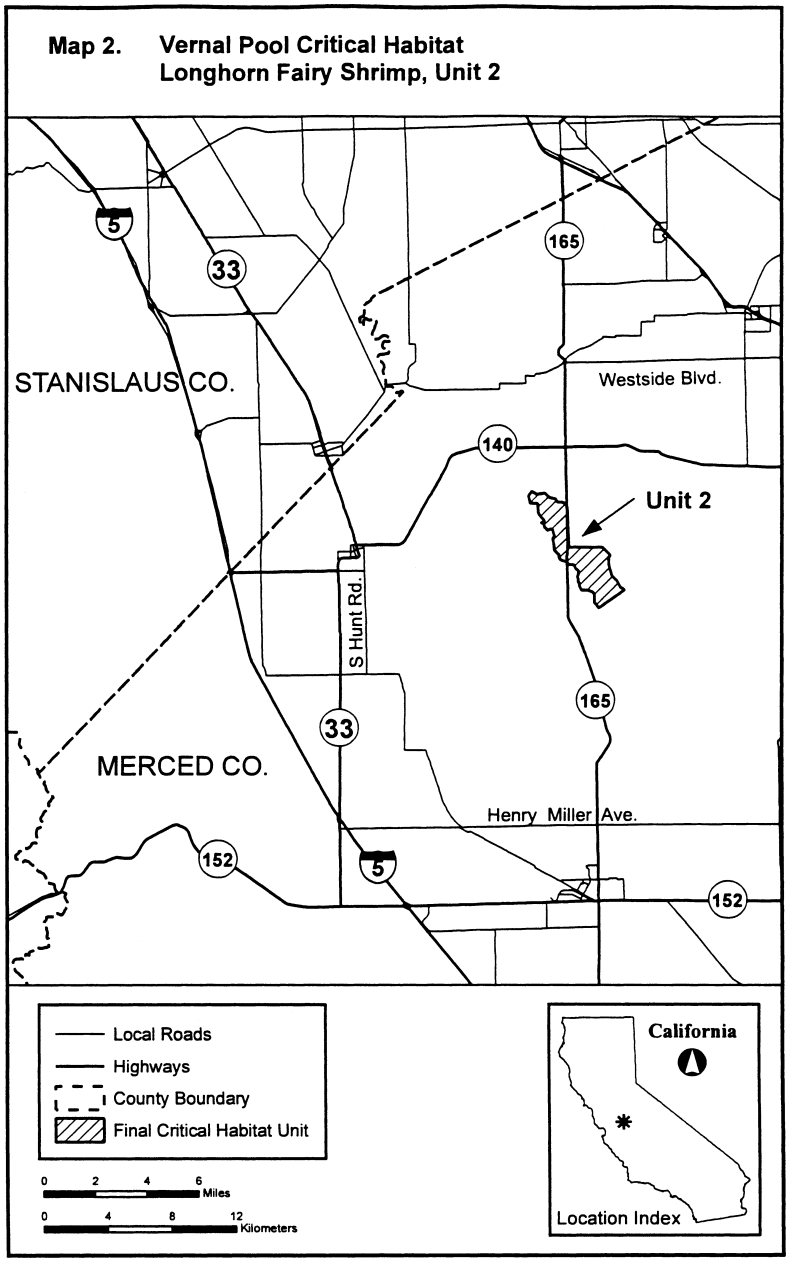
(iii) NOTE: Unit 1 (Map 1) follows:



(5) Unit 2: Merced County. USGS 24,000 topographic quads Gustine, Stevinson, San Luis Ranch: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 688300, 4129000; 688600, 4128800; 689100, 4128900; 689200, 4128800; 689400, 4128600; 689800, 4128500; 689900, 4128300; 690200, 4128300; 690400, 4128200; 690500, 4128000; 690600, 4125500; 692700, 4125500;

693200, 4125000; 693100, 4124800; 693100, 4124400; 693300, 4123700; 693600, 4123400; 693800, 4123000; 694000, 4122900; 694079, 4122821; 694035, 4122790; 692453, 4121671; 692300, 4121900; 692200, 4122000; 692200, 4122500; 692100, 4122700; 691800, 4122800; 691400, 4122800; 691261, 4123079; 691262, 4123097; 691263, 4123113; 691267, 4123155; 691273, 4123198; 691267, 4123238; 691248, 4123272; 691217, 4123291; 691200, 4123294; 691200, 4123500; 691110, 4123679; 691126, 4123677; 691149, 4123682; 691156, 4123694; 691166, 4123718; 691177, 4123739; 691191, 4123771; 691193, 4123793; 691200, 4123800; 691195, 4123810; 691201, 4123850; 691215, 4123892; 691220, 4123942; 691214, 4123980; 691192, 4124020; 691171, 4124049; 691150, 4124072; 691127, 4124089; 691099, 4124095; 691071, 4124095; 691055, 4124090; 690900, 4124400; 690559, 4124400; 690559, 4124402; 690569, 4124417; 690582, 4124427; 690582, 4124447; 690576, 4124466; 690563, 4124483; 690546, 4124493; 690525, 4124502; 690523, 4124502; 690523, 4124519; 690500, 4124524; 690475, 4124530; 690469, 4124538; 690445, 4124570; 690388, 4124590; 690353, 4124592; 690180, 4124650; 690127, 4124689; 690083, 4124695; 690025, 4124783; 690020, 4124854; 689996, 4124900; 689988, 4125006; 689952, 4125056; 689912, 4125095; 689856, 4125119; 689819, 4125184; 689788, 4125210; 689747, 4125229; 689700, 4125300; 689658, 4125595; 689665, 4125595; 689672, 4125603; 689645, 4125757; 689630, 4125793; 689600, 4126000; 689700, 4126200; 689600, 4126600; 689400, 4126600; 689275, 4126538; 689239, 4126581; 689188, 4126664; 689134, 4126678; 689121, 4126682; 689069, 4126728; 689067, 4126852; 689020, 4126961; 688990, 4126993; 688911, 4126978; 688903, 4126995; 688913, 4127006; 689100, 4127100; 689024, 4127195; 689025, 4127207; 688949, 4127292; 688931, 4127324; 688922, 4127322; 688854, 4127407; 688823, 4127454; 688780, 4127503; 688735, 4127581; 688723, 4127621; 688696, 4127650; 688684, 4128244; 688193, 4128235; 688100, 4128700; returning to 688300, 4129000.

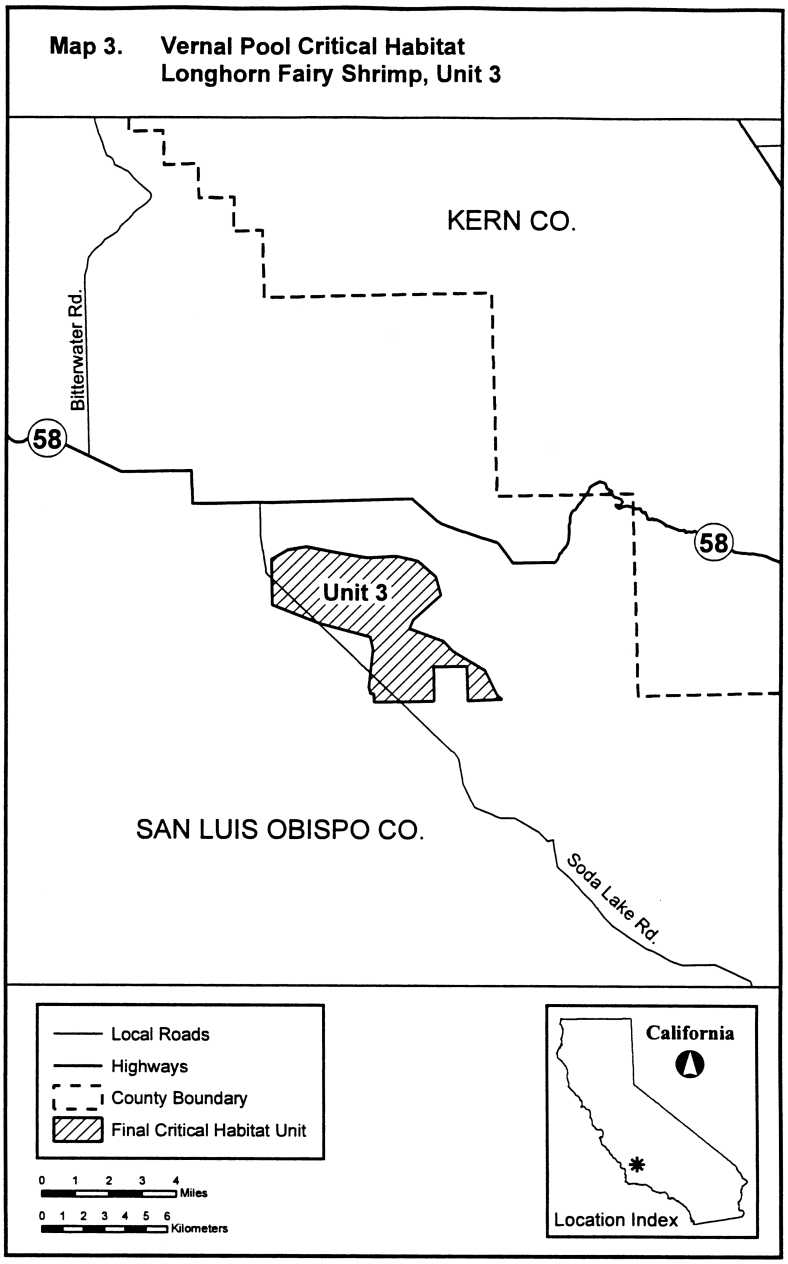
(6) NOTE: Unit 2 (Map 2) follows:



(7) Unit 3: San Luis Obispo County. USGS 24,000 topographic quads Simmler: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 774375, 3914002; 777312, 3913479; 778710, 3913564; 779726, 3913325; 780573, 3912575; 780827, 3911688; 779496, 3910506; 779321, 3910094; 780960, 3909492; 781390, 3909017; 782948, 3908110; 783520, 3906942; 783765, 3906725; 783760,

3906724; 782946, 3906690; 782936, 3906690; 782156, 3906654; 782132, 3906653; 782082, 3908301; 780768, 3908263; 780485, 3908255; 780490, 3908031; 780522, 3906619; 779393, 3906593; 777627, 3906558; 777613, 3906978; 777456, 3906974; 777388, 3907272; 777578, 3909087; 777442, 3909680; 774998, 3910333; 772742, 3911198; 772708, 3913400; 773483, 3913848; returning to 774375, 3914002.

(8) NOTE: Unit 3 (Map 3) follows:


Map 3. Vernal Pool Critical Habitat
Longhorn Fairy Shrimp, Unit 3
KERN CO.
Bitterwater Rd.
58
58
Unit 3
SAN LUIS OBISPO CO.
Soda Lake Rd.
Local Roads
Highways
County Boundary
Final Critical Habitat Unit
0 1 2 3 4 Miles
0 1 2 3 4 5 6 Kilometers
California
Location Index

RIVERSIDE FAIRY SHRIMP (*Streptocephalus woottoni*)

(1) Critical habitat units for Ventura, Orange, and San Diego Counties, California, are depicted on the maps that follow.

(2) Critical habitat consists of vernal pools, vernal pool complexes, and ephemeral ponds and depressions and their associated surrounding upslope areas with the soil and hydrologic regimes 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 determined essential to the conservation of Riverside fairy shrimp are:

(i) Small to large pools or pool complexes that have the appropriate size and volume, local climate, topography, water temperature, water chemistry, soil conditions, and length of time of inundation with water necessary for Riverside fairy shrimp incubation and reproduction, as well as dry periods necessary to provide the conditions to maintain a dormant and viable cyst bank. Specifically, the conditions necessary to allow for successful reproduction of Riverside fairy shrimp fall within the following ranges:

(A) Moderate to deep depths ranging from 10 in (25 cm) to 5–10 ft (1.5–3 m);

(B) Pool or pond inundation lasting for a minimum of 2 months to 5–8 months or more, *i.e.*, a sufficient wet period in winter and spring months to allow the Riverside fairy shrimp to hatch, mature, and reproduce, followed by a dry period prior to the next winter and spring rains;

(*1*) Water temperatures within the range of 41–77 degrees F (5–25 degrees C);

(*2*) Water chemistry with low total dissolved solids and alkalinity (means of 77 and 65 parts per million, respectively); and

(*3*) Water pH within a range of 6.4–7.1.

(ii) The immediately surrounding upslope area that provides the pool or pool complex with the following:

(A) Hydrologic flows, both above-ground (sheet flow) and sub-surface through soil or sediments, to fill the pools and maintain the seasonal cycle of ponding and drying, at the appropriate rates;

(B) A source of detritus and nutrients;

(C) Sources of soil, ion and mineral transport to the pool or pool complex to provide and maintain the appropriate water chemistry conditions and impermeability of the pool basin(s); and

(D) Habitat for animals that act as dispersers of cysts and vernal pool plant seeds or pollen, as well as habitat for the pollinators of the vernal pool plants that also form an integral part of the vernal pool's ecology.

(iii) The size of the immediately surrounding upslope area varies greatly depending on a number of factors and has been assessed for each sub-unit. Factors that affect the size of the surrounding upslope area include surface and sub-surface hydrology, the topography of the area surrounding the pool or pools, the vegetative coverage, and the soil and bedrock substrate in the area. The upslope areas designated vary from a few acres to over 100 ac (40 ha) in size.

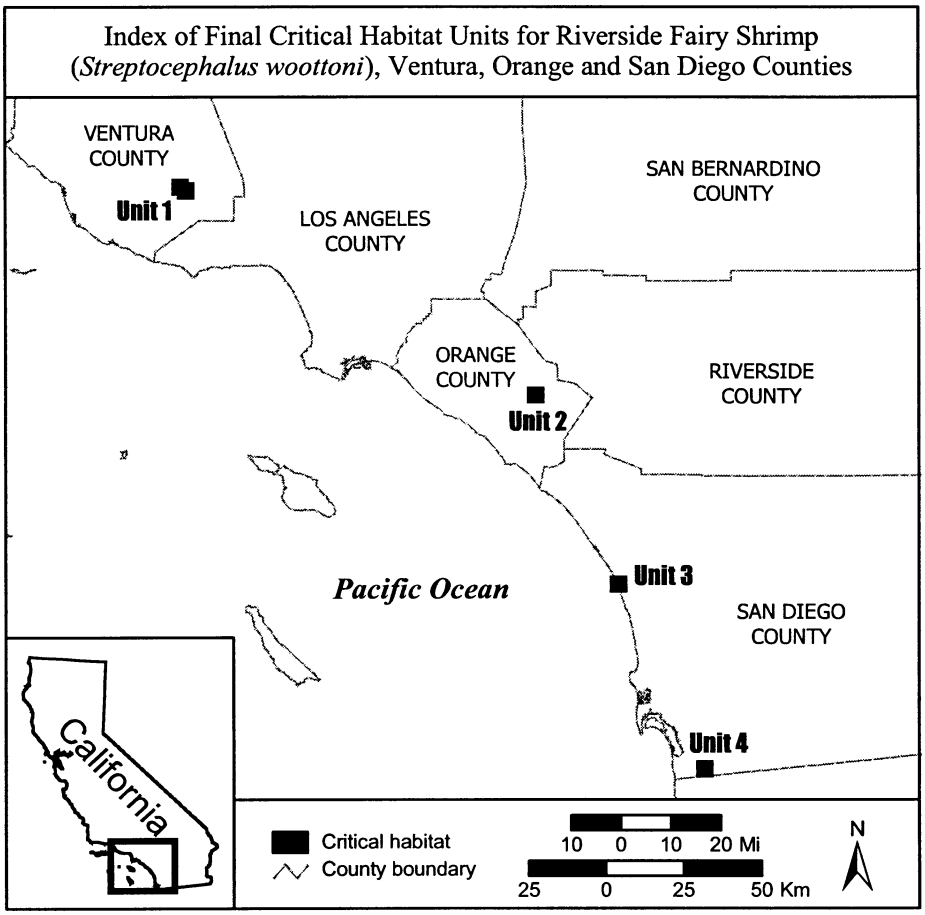
(iv) Soils in the summit, rim and basin geomorphic positions with a clay component and/or an impermeable surface or subsurface layer that provide a unique assemblage of nutrient availability and redox conditions known to support vernal pool habitat. The biogeochemical environment strongly influences hydrologic properties and plays a critical role in nutrient cycling in vernal pool ecosystems (Hobson and Dahlgren 1998).

(v) The matrix of vernal pools/ephemeral wetlands, the immediate upslope areas, upland habitats, and underlying soil substrates form hydrological and ecologically functional units. These features and the lands that they represent are essential to the conservation of the Riverside fairy shrimp. All lands identified as essential and proposed as critical habitat contain one or more of the primary constituent elements for the Riverside fairy shrimp.

(4) Critical habitat does not include manmade structures existing on the effective date of this rule and not containing one or more of the primary constituent elements, such as buildings, aqueducts, airports, and roads, and the land on which such structures are located.

(5) Data layers defining map units were created on a base of USGS 7.5′ quadrangles, and critical habitat units were then mapped using Universal Transverse Mercator (UTM) coordinates.

(6) Index map of critical habitat units for the Riverside fairy shrimp follows:

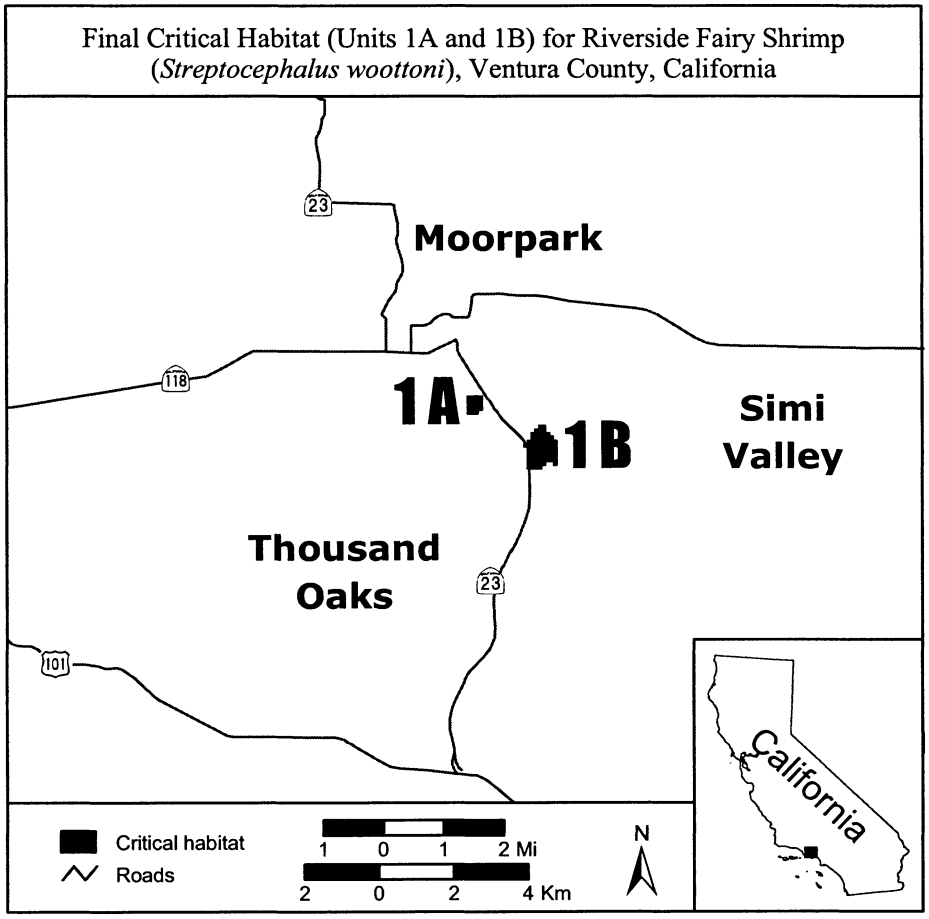


(7) Unit 1: Ventura County, California.

(i) Sub-unit 1A: City of Moorpark Greenbelt, north Tierra Rejada Valley from USGS 1:24,000 quadrangle map Simi Valley West. Lands bounded by the following UTM NAD27 coordinates (E, N): 329000, 3793300; 329400, 3793300; 329400, 3792900; 329300, 3792900; 329300, 3792800; 329000, 3792800; 329000, 3793300.

(ii) Sub-unit 1B: south Tierra Rejada Valley. Lands bounded by the following UTM NAD27 coordinates (E, N): 330900, 3792500; 331100, 3792500; 331100, 3792300; 331200, 3792300; 331200, 3792200; 331300, 3792200; 331300, 3792100; 331400, 3792100; 331400, 3791400; 331300, 3791400; 331300, 3791500; 331100, 3791500; 331100, 3791400; 331000, 3791400; 331000, 3791300; 330600, 3791300; 330600, 3791900; 330500, 3791900; 330500, 3792000; 330600, 3792000; 330600, 3792100; 330700, 3792100; 330700, 3792300; 330800, 3792300; 330800, 3792400; 330900, 3792400; 330900, 3792500.

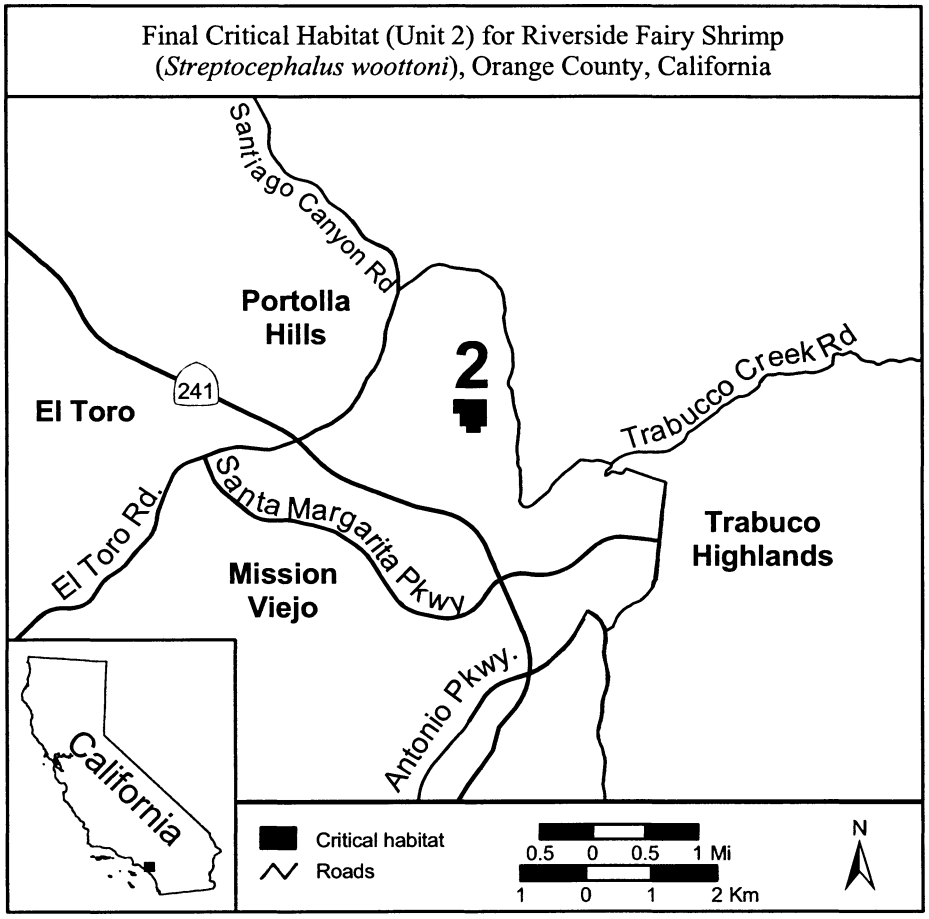
(iii) NOTE: Map of critical habitat Sub-units 1A and 1B for the Riverside fairy shrimp follows:



(8) Unit 2: Orange County, California. From USGS 1:24,000 quadrangle map Santiago Peak.

(i) Unit 2: Land within O'Neill Regional Park. Lands bounded by the following UTM NAD27 coordinates (E, N): 443400, 3725300; 443900, 3725300; 443900, 3724900; 443800, 3724900; 443800, 3724800; 443600, 3724800; 443600, 3724900; 443500, 3724900; 443500, 3725100; 443400, 3725100; 443400, 3725300.

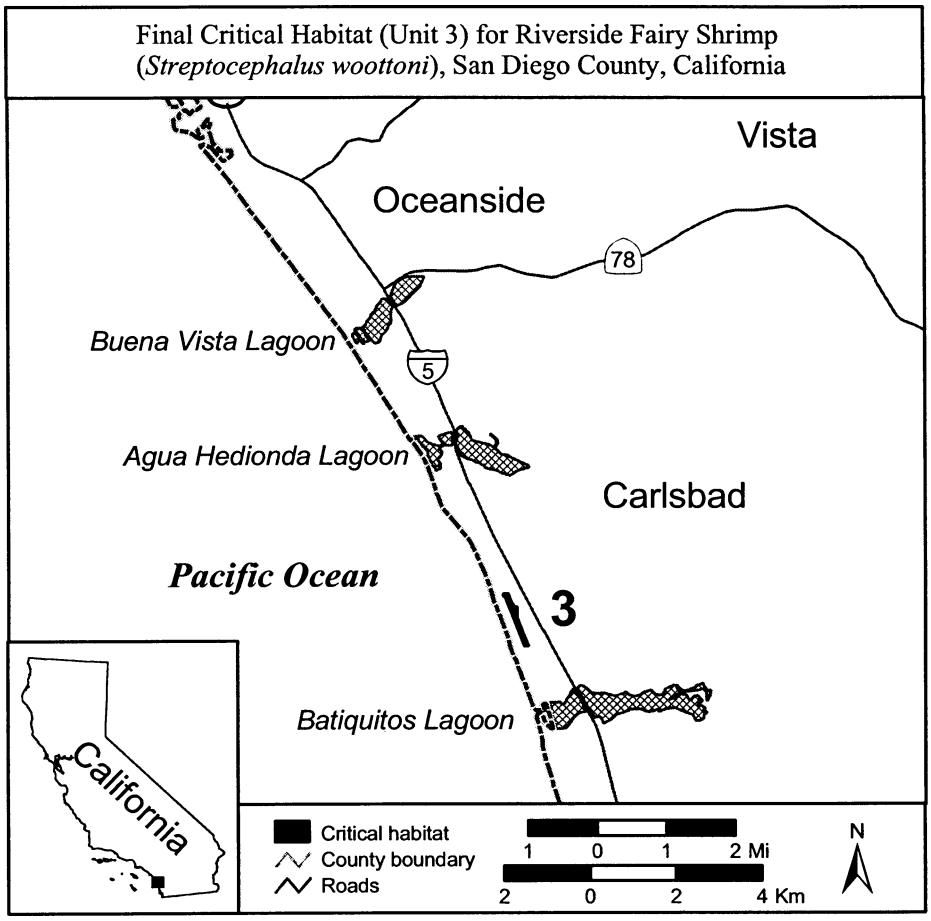
(ii) NOTE: Map of critical habitat Unit 2 for the Riverside fairy shrimp follows:



(9) Unit 3: North San Diego County, San Diego County, California. From USGS 1:24,000 quadrangle map Encinitas.

(i) Unit 3: Land near Poinsettia Lane Commuter Station, Carlsbad Lands bounded by the following UTM NAD27 coordinates (E, N): 470100, 3663600; thence east to the North San Diego County Transit (NSDCT) boundary at UTM NAD27 y-coordinate 3663600; thence south following the NSDCT boundary to UTM NAD27 x-coordinate 470300; thence south to UTM NAD27 coordinates 470300, 3663300; thence east to the NSDCT boundary at UTM NAD27 y-coordinate 3663300; thence southeast following the NSDCT boundary lands to UTM NAD 27 x-coordinate 470400; thence south following UTM NAD27 x-coordinate 470400 to the NSDCT boundary; thence west and south following the NSDCT boundary to UTM NAD27 y-coordinate 3662400; thence west following UTM NAD27 y-coordinate 3662400 to the NSDCT boundary; thence northwest following the NSDCT boundary to UTM NAD27 x-coordinate 470400; thence north along UTM NAD27 x-coordinate 470400 to UTM NAD27 coordinates 470400, 3662900; thence west to NSDCT lands at UTM NAD 27 y-coordinate 3662900; thence northwest following the NSDCT boundary returning to UTM NAD27 coordinates 470100, 3663600.

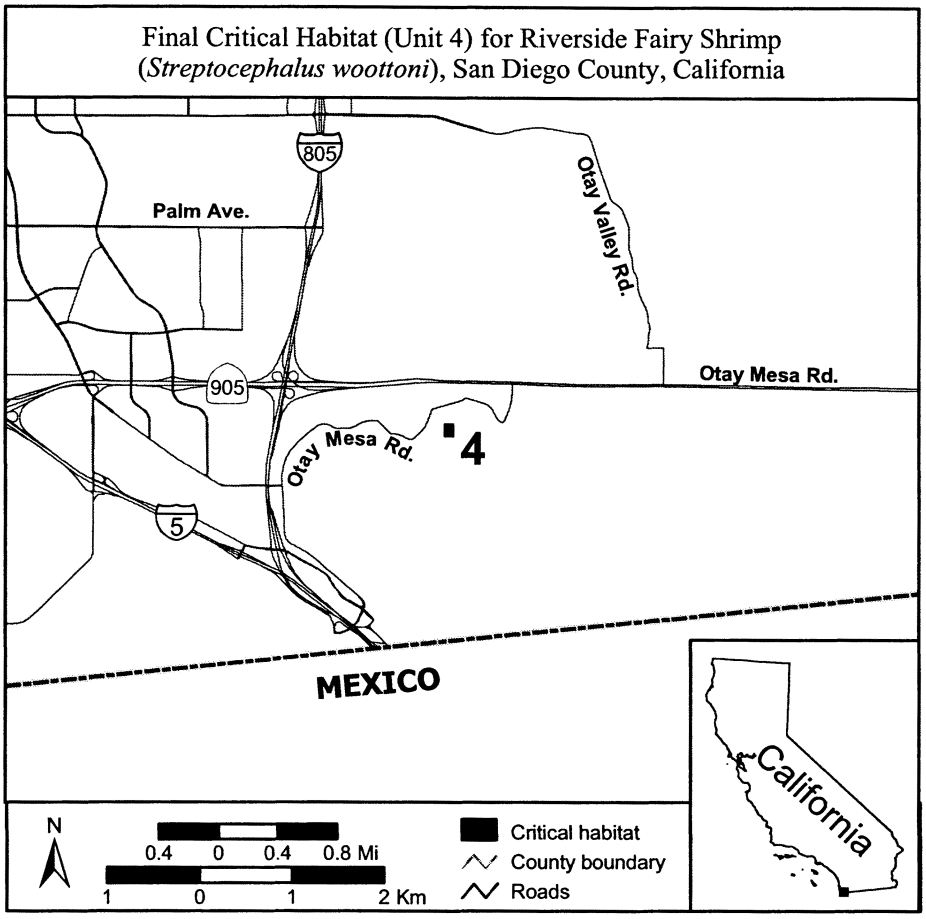
(ii) NOTE: Map of critical habitat Unit 3 for the Riverside fairy shrimp follows:



(10) Map Unit 4: South San Diego County, San Diego, California. From USGS 1:24,000 quadrangle map Imperial Beach.

(i) Unit 4: Sweetwater Union High School District lands on Otay Mesa. Lands bounded by the following UTM NAD27 coordinates (E, N): 498000, 3602800; 498100, 3602800; thence south to the Sweetwater Union High School District (SUHSD) boundary at UTM NAD27 x-coordinate 498100; thence west following the SUHSD boundary to UTM NAD27 x-coordinate 498000; thence north following UTM NAD27 x-coordinate 498000 returning to UTM NAD27 coordinates 498000, 3602800.

(ii) NOTE: Map of critical habitat Unit 4 for the Riverside fairy shrimp follows:



SAN DIEGO FAIRY SHRIMP (*Branchinecta sandiegonensis*)

(1) Critical habitat units are depicted for Orange and San Diego counties, California, on the maps below.

(2) The primary constituent elements of critical habitat for the San Diego fairy shrimp are:

(i) Vernal pools with shallow to moderate depths (2 in (5 cm) to 12 in (30 cm)) that hold water for sufficient lengths of time (7 to 60 days) necessary for incubation, maturation, and reproduction of the San Diego fairy shrimp, in all but the driest years;

(ii) Topographic features characterized by mounds and swales and depressions within a matrix of surrounding uplands that result in complexes of continuously, or intermittently, flowing surface water in the swales connecting the pools described in paragraph (2)(i) of this entry, providing for dispersal and promoting hydroperiods of adequate length in the pools (*i.e.*, the vernal pool watershed); and

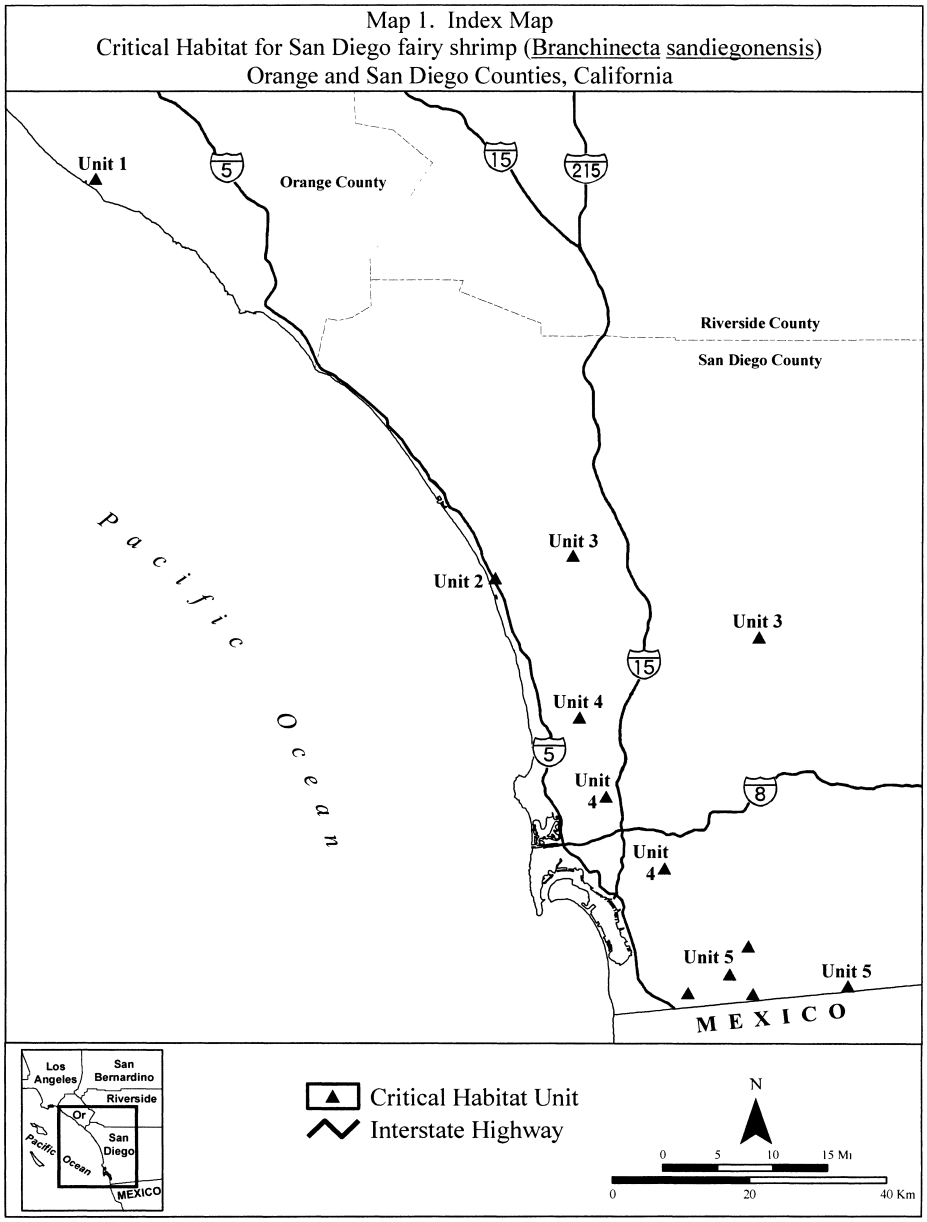
(iii) Flat to gently sloping topography, and any soil type with a clay component and/or an impermeable surface or subsurface layer known to support vernal pool habitat (including Carlsbad, Chesterton, Diablo, Huerhuero, Linne, Olivenhain, Placentia, Redding, and Stockpen soils).

(3) Critical habitat does not include man-made structures (such as buildings, aqueducts, runways, roads, and other paved areas) and the land on which they are located existing within the legal boundaries on the effective date of this rule.

(4) Critical habitat map units. Data layers defining map units were created using a base of U.S. Geological Survey 7.5′ quadrangle

maps, and the critical habitat units were then mapped using UTM coordinates.

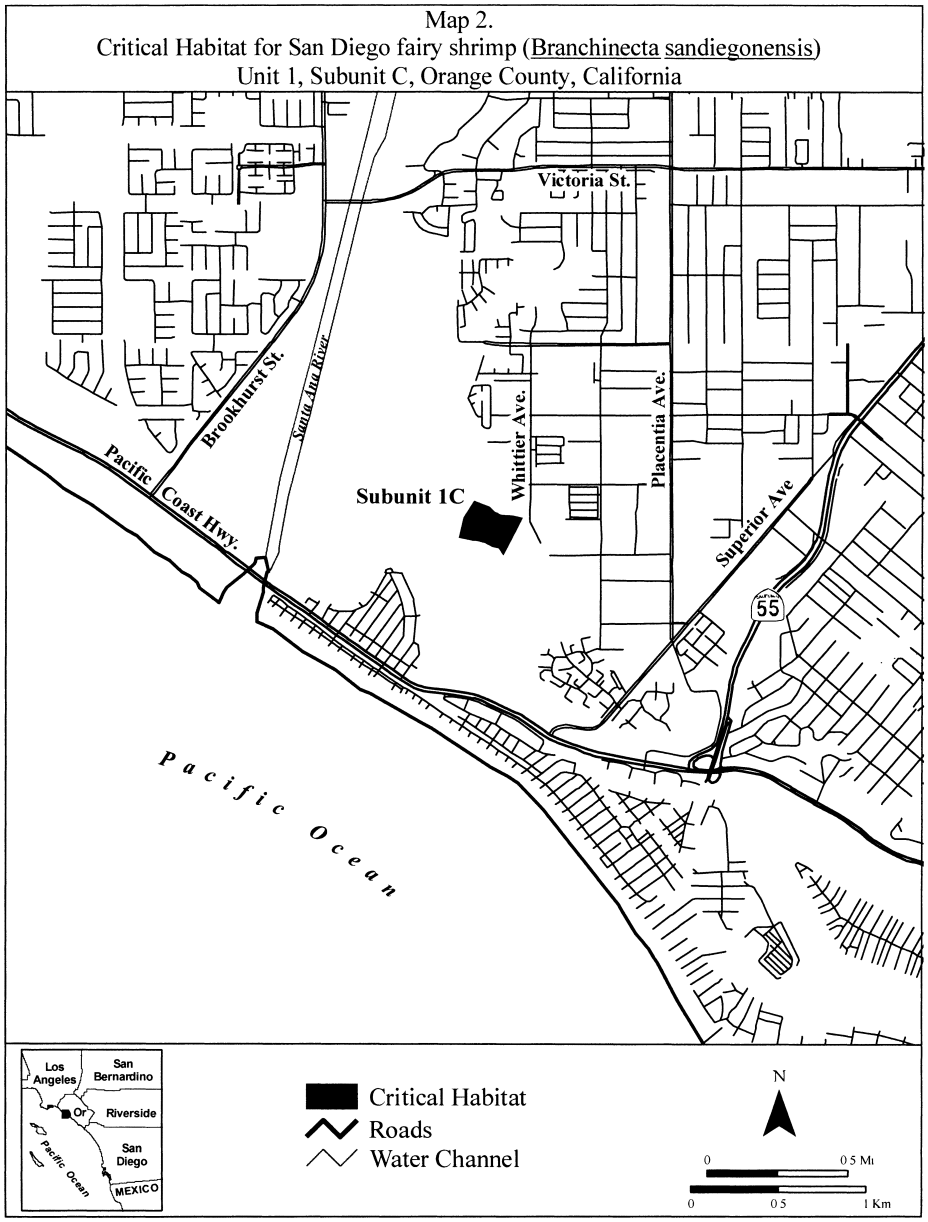
(5) Note: Index map (Map 1) follows:



(6) Unit 1: Orange County, California. From USGS 1:24, 000 quadrangle map Newport Beach.

(i) Subunit 1C. Land bounded by the following UTM NAD27 coordinates (E,N): 412805, 3721810; 412694, 3721593; 412668, 3721631; 412633, 3721638; 412589, 3721661; 412539, 3721674; 412521, 3721676; 412436, 3721693; 412465, 3721807; 412524, 3721907; 412616, 3721871; 412643, 3721844; 412677, 3721827; 412744, 3721820; 412805, 3721810.

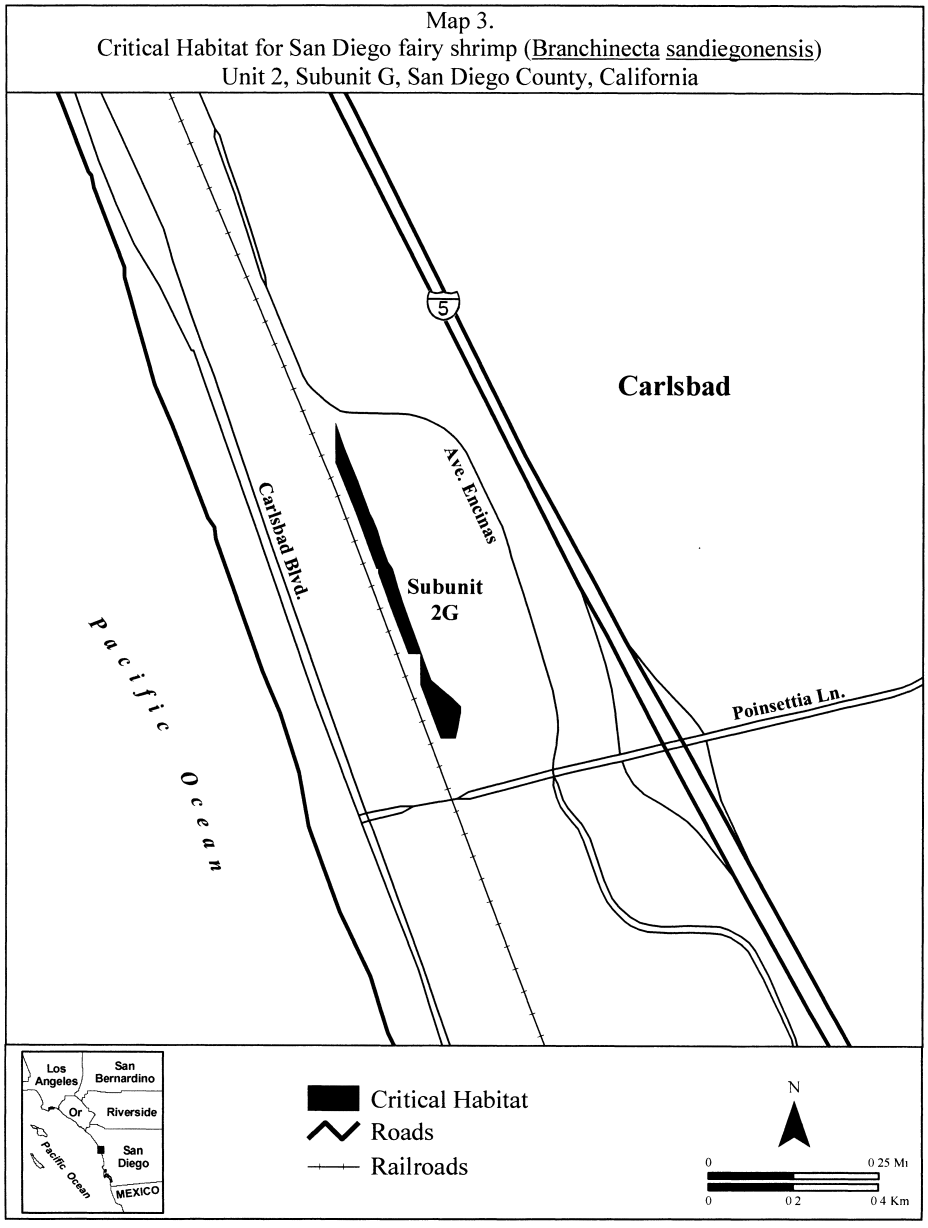
(ii) Note: Map of Unit 1, Subunit 1C (Map 2) follows:



(7) Unit 2: San Diego County, California. From USGS 1:24, 000 quadrangle map Encinitas.

(i) Subunit 2G. Land bounded by the following UTM NAD27 coordinates (E,N): 470300, 3663348; 470301, 3663346; 470323, 3663284; 470356, 3663198; 470366, 3663172; 470382, 3663133; 470388, 3663119; 470399, 3663092; 470399, 3663092; 470408, 3663065; 470418, 3663034; 470424, 3663019; 470434, 3663002; 470442, 3662980; 470447, 3662960; 470459, 3662925; 470476, 3662876; 470527, 3662739; 470531, 3662733; 470573, 3662699; 470596, 3662675; 470596, 3662661; 470590, 3662625; 470584, 3662600; 470568, 3662600; 470548, 3662600; 470500, 3662727; 470500, 3662779; 470500, 3662800; 470492, 3662800; 470472, 3662800; 470430, 3662912; 470400, 3662991; 470400, 3663000; 470397, 3663000; 470343, 3663144; 470300, 3663252; 470300, 3663328; 470300, 3663330.

(ii) Note: Map of Unit 2, Subunit 2G (Map 3) follows:



(8) Unit 3: San Diego County, California. From USGS 1:24, 000 quadrangle maps San Marcos, San Pasqual, and Ramona.

(i) Subunit 3A. Land bounded by the following UTM NAD27 coordinates (E,N): 482519, 3667481; 482522, 3667490; 482746, 3667403; 482743, 3667398; 482702, 3667300; 482600, 3667300; 482600, 3667232; 482556, 3667127; 482419, 3667185; 482436, 3667237; 482433, 3667249; 482361, 3667282; 482404, 3667370; 482467, 3667341; 482489, 3667400; 482500, 3667400; 482500, 3667430.

(ii) Subunit 3C. Land bounded by the following UTM NAD27 coordinates (E,N): 482054, 3666630; 481931, 3666341; 481800, 3666394; 481800, 3666400; 481786, 3666400; 481600, 3666476; 481600, 3666500; 481542, 3666500; 481586, 3666600; 481600, 3666600; 481600, 3666631; 481672, 3666793. Land bounded by the following UTM NAD27 coordinates (E,N): 481457, 3666290; 481750, 3666164; 481792, 3666269; 481822, 3666258; 481888, 3666230; 481888, 3666188; 481900, 3666135; 481900, 3666128; 481900, 3666100; 481908, 3666100; 481910, 3666093; 481926, 3666044; 481938, 3666006; 481954, 3665952; 481953, 3665951; 481872, 3665932; 481893, 3665863; 481726, 3665813; 481717, 3665831; 481700, 3665878; 481700, 3665900; 481692, 3665900; 481662, 3665987; 481637, 3666057; 481623, 3666077; 481600, 3666087; 481600, 3666100; 481572, 3666100; 481571, 3666100; 481406, 3666174; 481444, 3666261; 481455, 3666286.

(iii) Subunit 3D. Land bounded by the following UTM NAD27 coordinates (E,N): 482905, 3666600; 482943, 3666600; 482951, 3666576; 482878, 3666400; 482844, 3666400; 482800, 3666539; 482800, 3666566.

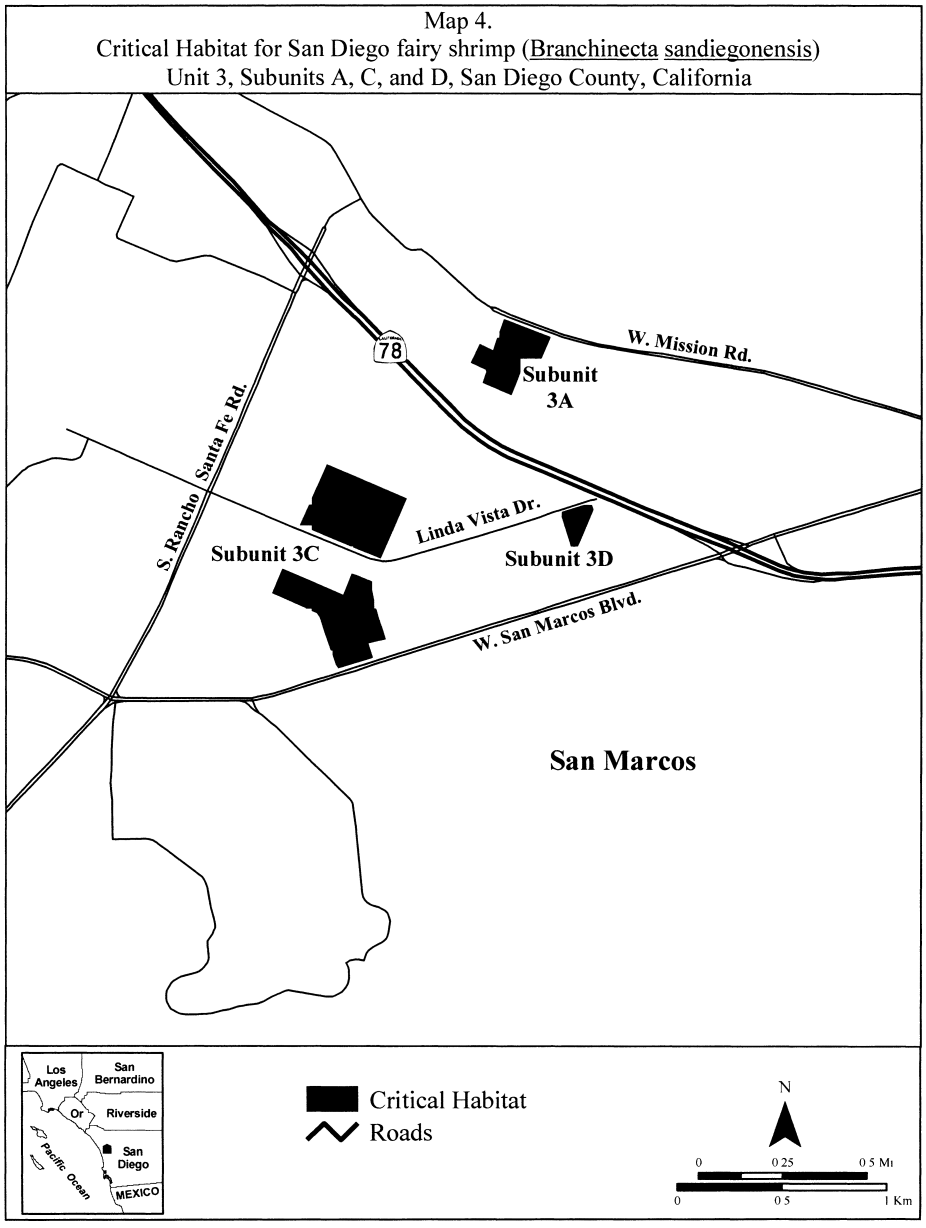
(iv) Subunit 3E.1. Land bounded by the following UTM NAD27 coordinates (E,N): 505832, 3655634; 505833, 3655626; 505920, 3655402; 506333, 3654967; 506504, 3655015; 506619, 3655015; 506795, 3655157; 507417, 3654906; 507417, 3654593; 507713, 3654398; 507614, 3654262; 506880, 3654385; 506410, 3654601; 505906, 3654692; 505398, 3655020; 505000, 3655164; 505000, 3655250; 505000, 3655500; 505000, 3655532; 505068, 3655630; 505199, 3655620; 505259, 3655600; 505403, 3655674; 505514, 3655610; 505534, 3655573; 505660, 3655633; 505665, 3655636; 505665, 3655636; 505692, 3655667; 505811, 3655671; 505832, 3655634; 505832, 3655634.

(v) Subunit 3E.2. Land bounded by the following UTM NAD27 coordinates (E,N): 509149, 3655266; 509295, 3655337; 509429, 3655206; 509321, 3655061; 509275, 3655000; 509250, 3655000; 509250, 3654973; 509174, 3654924; 509203, 3654625; 508642, 3654684; 508347, 3654484; 508311, 3654514; 508344, 3654563; 508583, 3654776; 508577, 3654914; 508488, 3654973; 508013, 3654934; 508029, 3655012; 507918, 3655209; 507485, 3655284; 507301, 3655340; 507261, 3655424; 507203, 3655544; 508301, 3655340; 508379, 3655228; 508429, 3655157; 508444, 3655152; 508646, 3655084; 508760, 3655311; 509003, 3655196; 509131, 3655258.

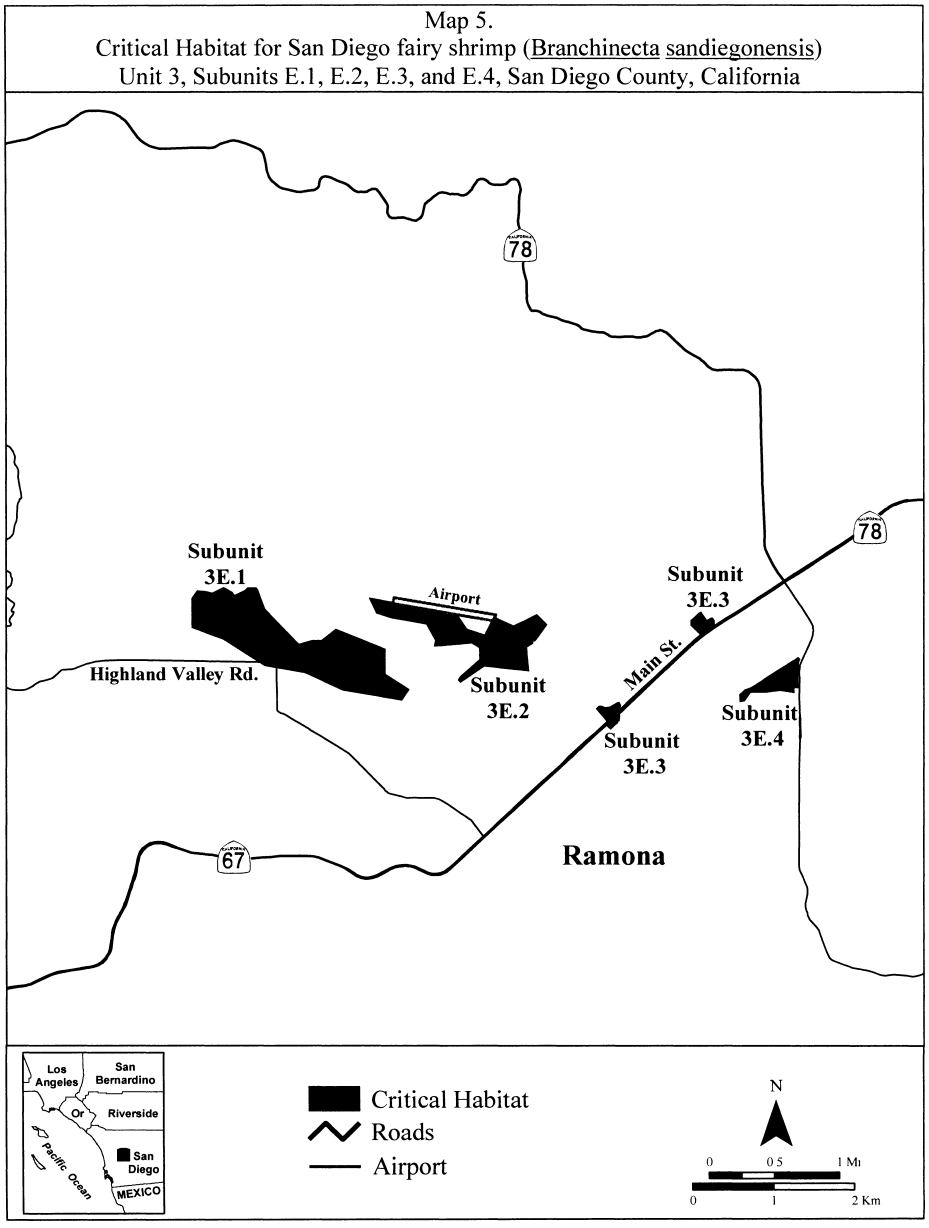
(vi) Subunit 3E.3. Land bounded by the following UTM NAD27 coordinates (E,N): 510101, 3654200; 510140, 3654178; 510198, 3654185; 510244, 3654214; 510292, 3654240; 510317, 3654246; 510342, 3654205; 510330, 3654166; 510323, 3654121; 510325, 3654076; 510321, 3654007; 510314, 3654000; 510300, 3654000; 510300, 3653984; 510250, 3653938; 510250, 3653938; 510210, 3653900; 510200, 3653900; 510152, 3653953; 510148, 3653968; 510158, 3654004; 510110, 3654061; 510023, 3654160; 510062, 3654196; 510098, 3654200; 510100, 3654200; 510100, 3654200. Land bounded by the following UTM NAD27 coordinates (E,N): 511334, 3655370; 511340, 3655365; 511345, 3655353; 511397, 3655274; 511404, 3655265; 511416, 3655273; 511460, 3655300; 511473, 3655300; 511500, 3655262; 511500, 3655250; 511500, 3655218; 511500, 3655214; 511331, 3655102; 511310, 3655088; 511300, 3655099; 511300, 3655100; 511299, 3655100; 511292, 3655107; 511250, 3655150; 511208, 3655192; 511200, 3655200; 511200, 3655265; 511250, 3655310; 511299, 3655354; 511333, 3655371.

(vii) Subunit 3E.4. Land bounded by the following UTM NAD27 coordinates (E,N): 512552, 3654788; 512561, 3654778; 512553, 3654759; 512542, 3654734; 512535, 3654677; 512533, 3654565; 512532, 3654547; 512531, 3654515; 512530, 3654422; 512485, 3654420; 512487, 3654359; 512313, 3654385; 512139, 3654363; 511954, 3654363; 511937, 3654353; 511935, 3654350; 511874, 3654257; 511806, 3654242; 511802, 3654342; 511873, 3654405; 511946, 3654429; 511947, 3654432; 511948, 3654430; 512095, 3654525; 512106, 3654533; 512441, 3654750; 512442, 3654750; 512443, 3654750; 512500, 3654787; 512500, 3654785; 512517, 3654799; 512532, 3654810; 512533, 3654809.

(viii) Note: Map of Unit 3, Subunits 3A, 3C, and 3D (Map 4) follows:



(ix) Note: Map of Unit 3, Subunits 3E.1, 3E.2, 3E.3, and 3E.4 (Map 5) follows:



(9) *Unit 4:* San Diego County, California. From USGS 1:24, 000 quadrangle maps Del Mar, La Jolla, and La Mesa.

(i) Subunit 4A/B. Land bounded by the following UTM NAD27 coordinates (E,N): 485317, 3645035; 485298, 3645039; 485274, 3645039; 485259, 3645035; 485245, 3645032; 485244, 3645032; 485241, 3645032; 485226, 3645028; 485213, 3645026; 485209, 3645025; 485187, 3645020; 485173, 3645017; 485153, 3645012; 485139, 3645009; 485128, 3645009; 485114, 3645012; 485101, 3645018; 485090, 3645027; 485078, 3645035; 485065, 3645043; 485052, 3645052; 485033,

3645066; 485019, 3645074; 485009, 3645081; 485001, 3645086; 484987, 3645095; 484971, 3645103; 484957, 3645107; 484940, 3645108; 484923, 3645108; 484912, 3645106; 484901, 3645102; 484897, 3645098; 484890, 3645093; 484886, 3645088; 484884, 3645085; 484883, 3645077; 484886, 3645067; 484890, 3645055; 484899, 3645041; 484906, 3645034; 484915, 3645027; 484921, 3645018; 484929, 3645005; 484935, 3644996; 484943, 3644981; 484947, 3644970; 484947, 3644958; 484945, 3644947; 484939, 3644936; 484933, 3644928; 484925, 3644922; 484916, 3644917; 484904, 3644916; 484891, 3644921; 484873, 3644929; 484860, 3644939; 484860, 3644939; 484850, 3644950; 484841, 3644961; 484829, 3644979; 484822, 3644989; 484817, 3644997; 484812, 3645003; 484806, 3645012; 484796, 3645023; 484795, 3645024; 484785, 3645030; 484771, 3645032; 484758, 3645034; 484741, 3645032; 484729, 3645030; 484715, 3645026; 484709, 3645024; 484704, 3645022; 484697, 3645018; 484691, 3645012; 484688, 3645008; 484685, 3645004; 484675, 3644990; 484670, 3644981; 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(ii) Subunit 4C. Land bounded by the following UTM NAD27 coordinates (E,N): 490395, 3629279; 490395, 3629231; 490396, 3629048; 490358, 3628917; 490295, 3628700; 490293, 3628636; 490280, 3628634; 490111, 3628613; 490000, 3628601; 489913, 3628573; 489739, 3628518; 489724, 3628567; 489718, 3628588; 489705, 3628631; 489842, 3628715; 489893, 3628747; 489985, 3628789; 490101, 3628795; 490203, 3628901; 490202, 3628998; 490304, 3629099; 490306, 3629152; 490301, 3629236; 490299, 3629280; 490342, 3629279; 490364, 3629279.

(iii) Subunit 4D. Land bounded by the following UTM NAD27 coordinates (E,N): 494410, 3622458; 494410, 3622458; 494415, 3622443; 494429, 3622410; 494425, 3622393; 494409, 3622376; 494394, 3622372; 494374, 3622371; 494341, 3622377; 494327, 3622361; 494325, 3622291; 494300, 3622294; 494300, 3622300; 494250, 3622300; 494226, 3622303; 494227, 3622331; 494234, 3622339; 494242, 3622347; 494240, 3622360; 494228, 3622373; 494210, 3622384; 494200, 3622392; 494200, 3622400; 494192, 3622400; 494186, 3622411; 494180, 3622431; 494100, 3622428; 494102, 3622400; 494100, 3622400; 494100, 3622392; 494093, 3622379; 494071, 3622370; 494044, 3622367; 494024, 3622370; 494006, 3622381; 494000, 3622388; 494000, 3622400; 493991, 3622400; 493979, 3622418; 493969, 3622437; 493839, 3622432; 493839, 3622463; 493839, 3622466; 493839, 3622467; 493839, 3622468; 493867, 3622468; 494023, 3622470; 494092, 3622471; 494099, 3622471; 494417, 3622476; 494417, 3622475; 494417, 3622475. Land bounded by the following UTM NAD27 coordinates (E,N): 494403, 3622266; 494430, 3622258; 494439, 3622241; 494444, 3622219; 494433, 3622200; 494400, 3622200; 494400, 3622136; 494399, 3622134; 494389, 3622114; 494300, 3622115; 494300, 3622151; 494308, 3622175; 494300, 3622214; 494300, 3622265.

(iv) Subunit 4E. Land bounded by the following UTM NAD27 coordinates (E,N): 479564, 3643663; 479567, 3643643; 479569, 3643624; 479569, 3643612; 479569, 3643604; 479565, 3643579; 479562, 3643558; 479558, 3643541; 479555, 3643523; 479552, 3643502; 479550, 3643476; 479551, 3643456; 479560, 3643436; 479574, 3643422; 479580, 3643414; 479580, 3643414; 479590, 3643399; 479596, 3643380; 479600, 3643346; 479600, 3643346; 479600, 3643346; 479596, 3643219; 479596, 3643164; 479605, 3643123; 479608, 3643108; 479611, 3643082; 479612, 3643060; 479610, 3643042; 479611, 3643020; 479606, 3643005; 479602, 3642994; 479597, 3642980; 479594, 3642970; 479593, 3642966; 479590, 3642954; 479589, 3642951; 479582, 3642943; 479575, 3642938; 479567, 3642936; 479565, 3642937; 479564, 3642936; 479541, 3642932; 479537, 3642904; 479500, 3642905; 479500, 3643000; 479400, 3643000; 479400, 3643055; 479400, 3643061; 479400, 3643100; 479386, 3643100; 479377, 3643100; 479308, 3643100; 479308, 3643103; 479252, 3643201; 479259, 3643248; 479330, 3643265; 479376, 3643287; 479381, 3643289; 479403, 3643300; 479415, 3643362; 479424, 3643410; 479428, 3643412; 479432, 3643426; 479443, 3643437; 479443, 3643437; 479490, 3643487; 479502, 3643499; 479503, 3643651; 479504, 3643652; 479511, 3643660; 479524, 3643673; 479548, 3643698; 479553, 3643685; 479556, 3643684; 479559, 3643677; 479561, 3643673.

(v) Subunit 4F. Land bounded by the following UTM NAD27 coordinates (E,N): 479996, 3643593; 479997, 3643543; 479997, 3643513; 479913, 3643503; 479900, 3643503; 479900, 3643577; 479900, 3643683; 479998, 3643682.

(vi) Subunit 4G. Land bounded by the following UTM NAD27 coordinates (E,N): 484021, 3642526; 484021, 3642515; 484019, 3642503; 484019, 3642503; 484015, 3642495; 484008, 3642489; 484005, 3642487; 483999, 3642483; 483988, 3642477; 483978, 3642473; 483969, 3642470; 483965, 3642469; 483952, 3642466; 483943, 3642465; 483931, 3642465; 483921, 3642466; 483909, 3642470; 483898, 3642470; 483891, 3642472; 483881, 3642475; 483862, 3642479; 483847, 3642484; 483832, 3642490; 483823, 3642494; 483823, 3642494; 483814, 3642497; 483795, 3642503; 483778, 3642505; 483756, 3642504; 483742, 3642499; 483727, 3642491; 483712, 3642484; 483696, 3642476; 483682, 3642473; 483669, 3642475; 483662, 3642480; 483659, 3642490; 483659, 3642502; 483664, 3642514; 483682, 3642533; 483690, 3642536; 483703, 3642538; 483721, 3642540; 483740, 3642541; 483760, 3642541; 483777,

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(vii) Subunit 4H. Land bounded by the following UTM NAD27 coordinates (E,N): 483842, 3642261; 483853, 3642265; 483867, 3642269; 483879, 3642272; 483892, 3642272; 483905, 3642274; 483912, 3642274; 483917, 3642275; 483933, 3642275; 483948, 3642277; 483964, 3642279; 483976, 3642280; 483993, 3642281; 484005, 3642281; 484013, 3642279; 484023, 3642276; 484028, 3642270; 484030, 3642263; 484030, 3642255; 484029, 3642248; 484025, 3642241; 484020, 3642233; 484014, 3642224; 484002, 3642214; 483985, 3642202; 483972, 3642193; 483953, 3642177; 483939, 3642167; 483933, 3642159; 483933, 3642146; 483939, 3642132; 483948, 3642118; 483954, 3642108; 483955, 3642106; 483955, 3642105; 483934, 3642094; 483873, 3642068; 483839, 3642059; 483835, 3642058; 483834, 3642058; 483819, 3642055; 483809, 3642053; 483796, 3642052; 483747, 3642050; 483677, 3642050; 483628, 3642051; 483601, 3642056; 483596, 3642059; 483549, 3642079; 483543, 3642082; 483549, 3642088; 483558, 3642093; 483570, 3642095; 483580, 3642095; 483589, 3642094; 483597, 3642092; 483606, 3642090; 483607, 3642090; 483607, 3642090; 483635, 3642088; 483682, 3642088; 483719, 3642094; 483754, 3642105; 483783, 3642129; 483796, 3642147; 483797, 3642148; 483803, 3642165; 483806, 3642181; 483810, 3642198; 483814, 3642219; 483818, 3642238; 483823, 3642249; 483824, 3642251; 483832, 3642258; 483841, 3642261.

(viii) Subunit 4I. Land bounded by the following UTM NAD27 coordinates (E,N): 485100, 3641415; 485231, 3641411; 485237, 3641411; 485445, 3641409; 485450, 3641409; 485450, 3641400; 485444, 3641310; 485444, 3641310; 485438, 3641220; 485369, 3641214; 485290, 3641219; 485258, 3641235; 485211, 3641234; 485143, 3641234; 485111, 3641262; 485101, 3641270; 485069, 3641328; 485056, 3641340; 485041, 3641355; 485022, 3641356; 485015, 3641375; 485004, 3641397; 485000, 3641419; 485019, 3641424; 485035, 3641417; 485036, 3641417; 485039, 3641417.

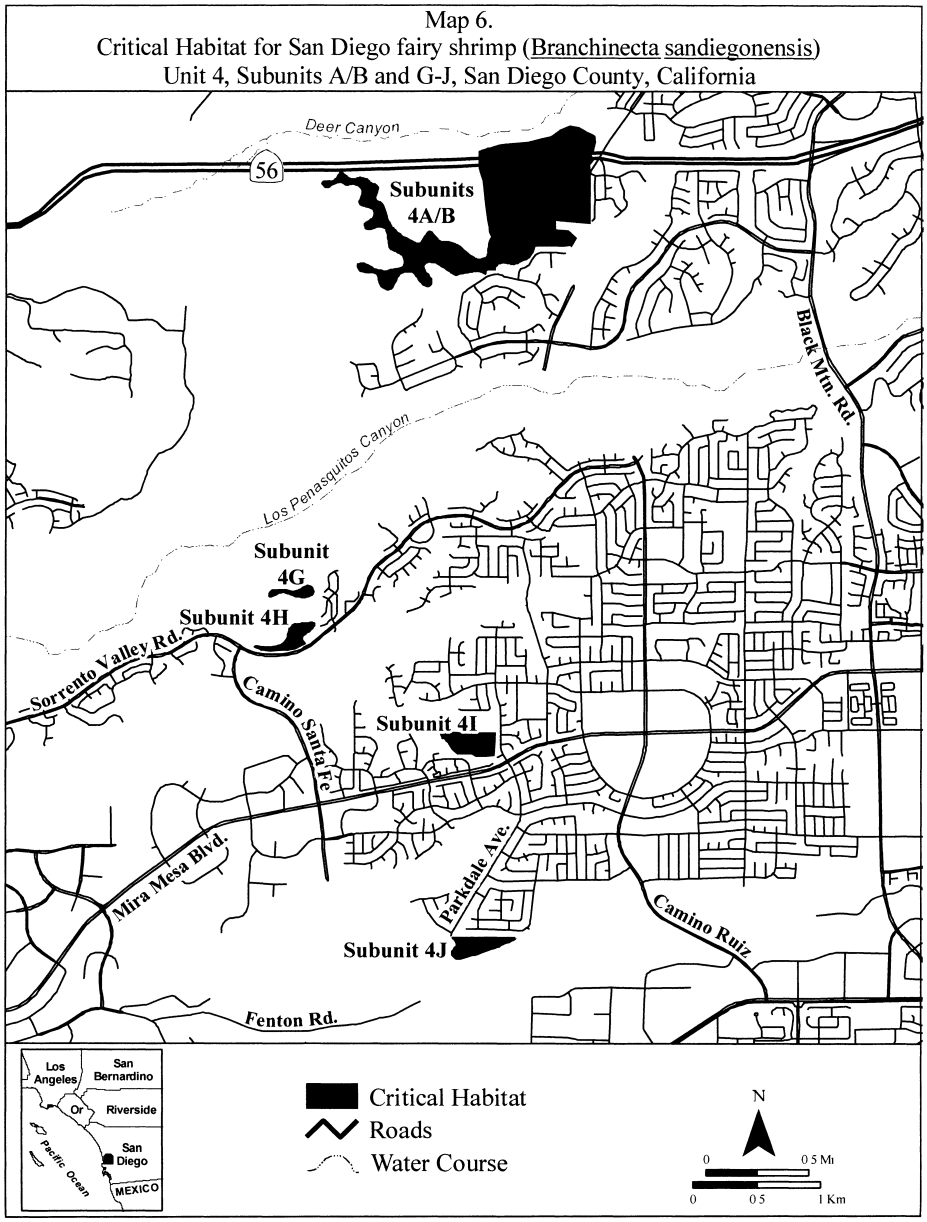
(ix) Subunit 4J. Land bounded by the following UTM NAD27 coordinates (E,N): 485600, 3639788; 485601, 3639788; 485612, 3639787; 485615, 3639782; 485615, 3639781; 485609, 3639777; 485604, 3639774; 485600, 3639771; 485595, 3639769; 485578, 3639758; 485558, 3639749; 485534, 3639741; 485503, 3639730; 485490, 3639724; 485478, 3639714; 485466, 3639709; 485445, 3639701; 485441, 3639700; 485417, 3639692; 485400, 3639687; 485385, 3639682; 485363, 3639673; 485322, 3639658; 485308, 3639654; 485285, 3639648; 485267, 3639644; 485247, 3639637; 485195, 3639619; 485173, 3639614; 485170, 3639614; 485153, 3639615; 485139, 3639618; 485125, 3639622; 485114, 3639632; 485106, 3639643; 485100, 3639655; 485097, 3639660; 485095, 3639672; 485099, 3639680; 485100, 3639681; 485102, 3639685; 485107, 3639693; 485112, 3639703; 485114, 3639705; 485123, 3639716; 485131, 3639722; 485136, 3639730; 485134, 3639744; 485125, 3639756; 485115, 3639770; 485104, 3639781; 485104, 3639787; 485105, 3639787; 485104, 3639797; 485600, 3639797.

(x) Subunit 4K. Land bounded by the following UTM NAD27 coordinates (E,N): 486900, 3633200; 486911, 3633200; 486913, 3633170; 486914, 3633158; 486917, 3633125; 486934, 3632893; 486937, 3632893; 486941, 3632892; 486943, 3632892; 486942, 3632891; 486940, 3632890; 486995, 3632852; 486996, 3632831; 486996, 3632805; 486971, 3632804; 486964, 3632804; 486964, 3632819; 486948, 3632822; 486941, 3632873; 486939, 3632873; 486916, 3632876; 486915, 3632877; 486915, 3632877; 486909, 3632877; 486903, 3632877; 486900, 3632877; 486895, 3632877; 486859, 3632877; 486791, 3632884; 486731, 3632895; 486720, 3632900; 486693, 3632912; 486682, 3632917; 486674, 3632921; 486668, 3632923; 486627, 3632941; 486618, 3632944; 486596, 3632950; 486580, 3632937; 486579, 3632937; 486400, 3632968; 486192, 3633005; 486136, 3633015; 486136, 3633015; 486135, 3633139; 486200, 3633155; 486220, 3633160; 486220, 3633161; 486331, 3633188; 486332, 3633188; 486332, 3633189; 486381, 3633201; 486402, 3633206; 486482, 3633225; 486603, 3633253; 486689, 3633272; 486690, 3633272; 486700, 3633274; 486771, 3633284; 486775, 3633284; 486786, 3633284; 486900, 3633299.

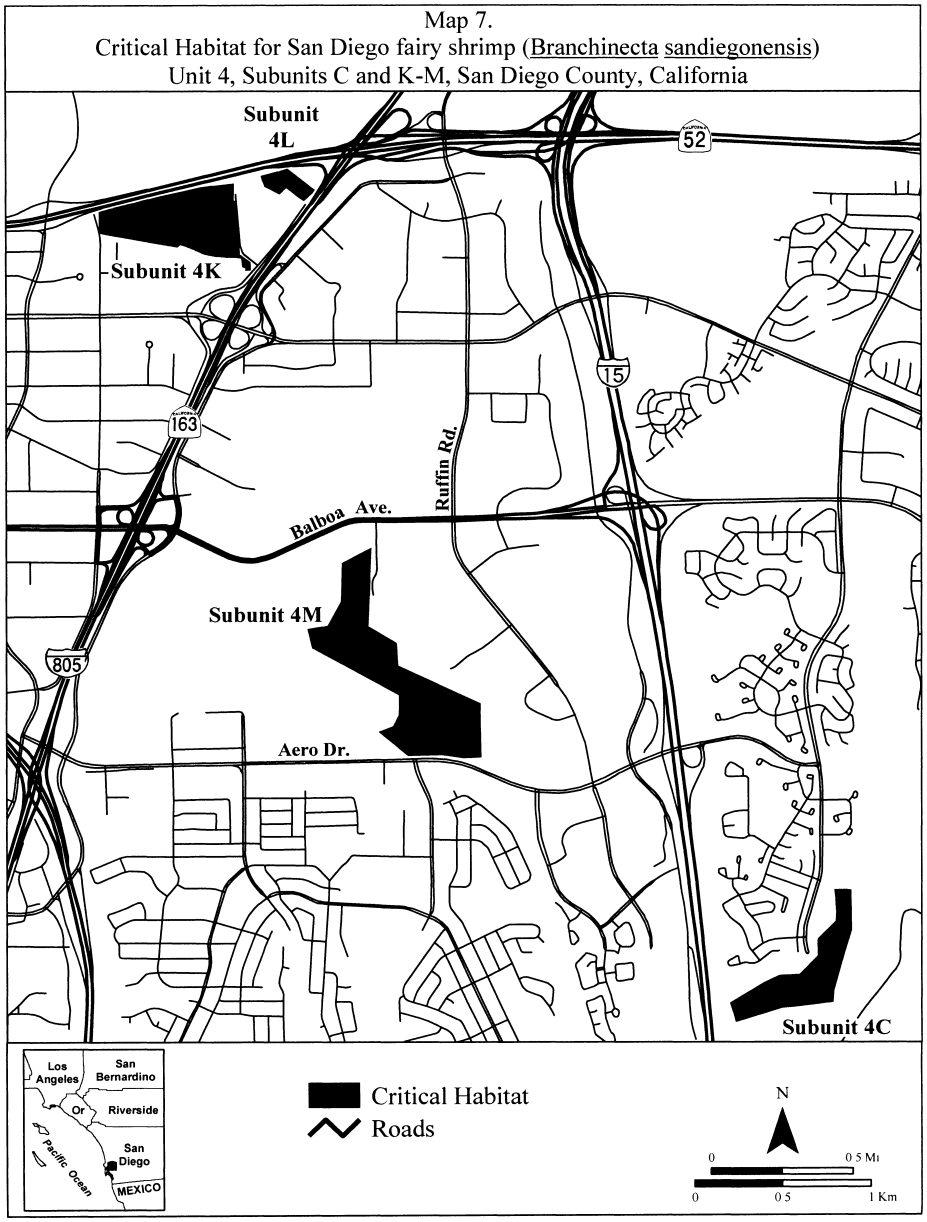
(xi) Subunit 4L. Land bounded by the following UTM NAD27 coordinates (E,N): 487340, 3633277; 487340, 3633277; 487361, 3633261; 487346, 3633241; 487346, 3633241; 487346, 3633241; 487298, 3633197; 487280, 3633208; 487280, 3633208; 487280, 3633209; 487268, 3633218; 487200, 3633269; 487196, 3633272; 487160, 3633234; 487100, 3633264; 487073, 3633277; 487065, 3633300; 487062, 3633309; 487053, 3633340; 487147, 3633365; 487147, 3633366; 487152, 3633366; 487204, 3633380.

(xii) Subunit 4M. Land bounded by the following UTM NAD27 coordinates (E,N): 487669, 3631049; 487669, 3631036; 487667, 3630972; 487660, 3630780; 487672, 3630772; 487816, 3630687; 487818, 3630675; 487828, 3630556; 487829, 3630556; 488292, 3630338; 488292, 3630320; 488294, 3630143; 488295, 3630029; 488260, 3630028; 488195, 3630027; 488076, 3630043; 487879, 3630039; 487830, 3630081; 487805, 3630102; 487714, 3630177; 487798, 3630210; 487829, 3630273; 487830, 3630336; 487830, 3630388; 487516, 3630559; 487501, 3630568; 487340, 3630655; 487335, 3630674; 487313, 3630766; 487384, 3630777; 487428, 3630783; 487503, 3630920; 487508, 3631141; 487677, 3631228; 487672, 3631125; 487670, 3631078.

(xiii) Note: Map of Unit 4, Subunits 4A/B, 4G, 4H, 4I, and 4J (Map 6) follows:

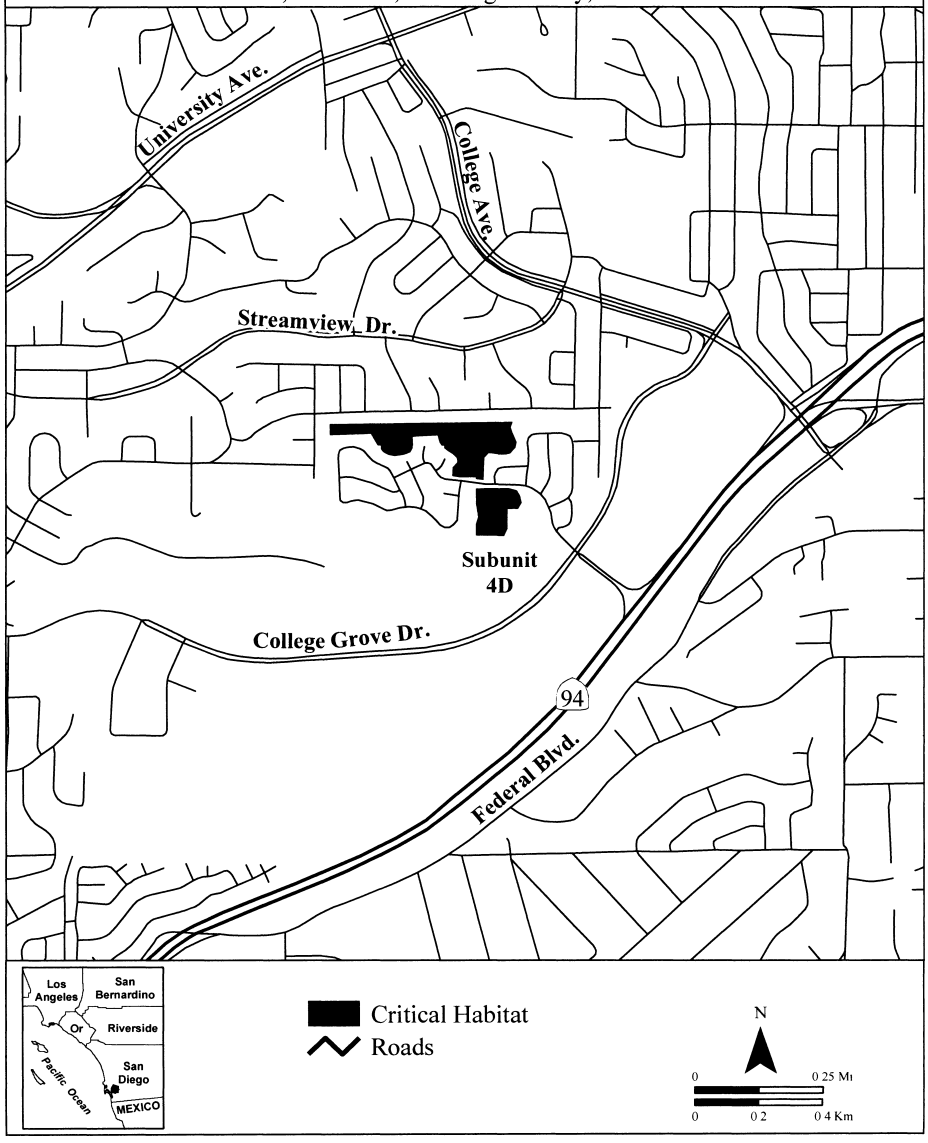


(xiv) Note: Map of Unit 4, Subunits 4C, 4K, 4L and 4M (Map 7) follows:

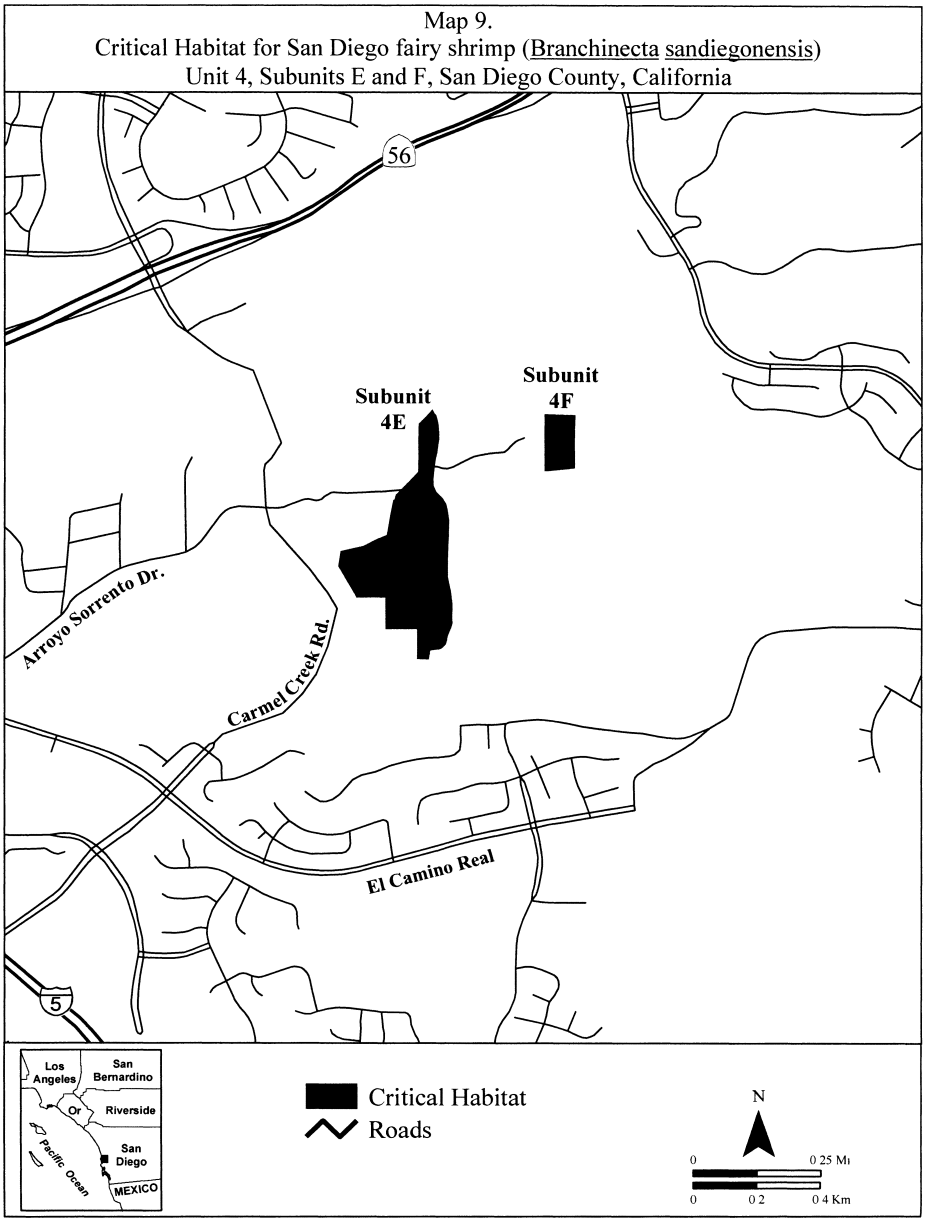


(xv) Note: Map of Unit 4, Subunit 4D (Map 8) follows:

Map 8.
Critical Habitat for San Diego fairy shrimp (Branchinecta sandiegonensis)
Unit 4, Subunit D, San Diego County, California



(xvi) Note: Map of Unit 4, Subunits 4E and 4F (Map 9) follows:



(10) Unit 5: San Diego County, California. From USGS 1:24, 000 quadrangle maps Imperial Beach, Jamul Mountains, Otay Mesa, and Otay Mountain.

(i) Subunit 5A. Land bounded by the following UTM NAD27 coordinates (E,N): 506870, 3606405; 506878, 3606405; 506888, 3606405; 506887, 3606404; 506881, 3606394; 506880, 3606392; 506879, 3606390; 506882, 3606388; 506874, 3606348; 506856, 3606282; 506837, 3606194; 506847, 3606090; 506880, 3606025; 506858, 3606009; 506843, 3605998; 506802, 3605981; 506795, 3605978; 506749, 3605974; 506739,

3605981; 506713, 3605998; 506692, 3606035; 506675, 3606077; 506660, 3606147; 506656, 3606157; 506647, 3606180; 506644, 3606186; 506636, 3606200; 506625, 3606220; 506593, 3606288; 506586, 3606303; 506555, 3606368; 506541, 3606400; 506539, 3606405; 506528, 3606429; 506522, 3606487; 506609, 3606517; 506609, 3606518; 506613, 3606522; 506620, 3606526; 506631, 3606530; 506657, 3606530; 506685, 3606523; 506688, 3606523; 506691, 3606524; 506702, 3606526; 506707, 3606529; 506719, 3606537; 506724, 3606543; 506728, 3606550; 506732, 3606567; 506733, 3606573; 506734, 3606582; 506753, 3606589; 506741, 3606620; 506742, 3606626; 506744, 3606633; 506745, 3606642; 506748, 3606650; 506754, 3606656; 506760, 3606661; 506766, 3606664; 506773, 3606667; 506780, 3606666; 506788, 3606665; 506793, 3606660; 506801, 3606654; 506806, 3606648; 506813, 3606638; 506819, 3606631; 506827, 3606625; 506837, 3606621; 506844, 3606619; 506846, 3606618; 506853, 3606616; 506857, 3606614; 506858, 3606461; 506858, 3606449; 506858, 3606449; 506858, 3606436; 506858, 3606427; 506858, 3606405; 506858, 3606405. Excluding land bounded by the following UTM NAD27 coordinates (E,N): 506704, 3606405; 506655, 3606405; 506655, 3606405; 506655, 3606400; 506656, 3606300; 506656, 3606200; 506656, 3606186; 506656, 3606186; 506706, 3606186; 506831, 3606187; 506831, 3606252; 506847, 3606275; 506858, 3606290; 506858, 3606290; 506858, 3606372; 506858, 3606392; 506858, 3606405. Land bounded by the following UTM NAD27 coordinates (E,N): 505791, 3606031; 505841, 3605966; 505884, 3605895; 505914, 3605830; 505935, 3605785; 505950, 3605753; 505951, 3605750; 505964, 3605715; 505973, 3605708; 505983, 3605665; 505863, 3605614; 505847, 3605635; 505834, 3605651; 505825, 3605658; 505797, 3605677; 505774, 3605686; 505774, 3605767; 505774, 3605767; 505774, 3605807; 505774, 3606046; 505774, 3606046.

(ii) Subunit 5B. Land bounded by the following UTM NAD27 coordinates (E,N): 504332, 3605189; 504347, 3605165; 504372, 3605163; 504405, 3605173; 504429, 3605160; 504432, 3605139; 504454, 3605119; 504474, 3605134; 504505, 3605127; 504533, 3605097; 504559, 3605077; 504597, 3605074; 504629, 3605076; 504630, 3604936; 504630, 3604918; 504629, 3604782; 504627, 3604782; 504627, 3604746; 504626, 3604744; 504627, 3604742; 504626, 3604631; 504603, 3604604; 504587, 3604590; 504573, 3604589; 503692, 3604599; 503641, 3604600; 503620, 3604621; 503508, 3604831; 503453, 3604971; 503470, 3604979; 503500, 3604973; 503517, 3604970; 503525, 3604977; 503534, 3604982; 503556, 3604994; 503626, 3604992; 503626, 3605008; 503626, 3605032; 503628, 3605033; 503628, 3605033; 503705, 3605099; 503742, 3605171; 503743, 3605172; 503754, 3605194. Land bounded by the following UTM NAD27 coordinates (E,N): 503241, 3604951; 503260, 3604945; 503260, 3604964; 503275, 3604981; 503314, 3604988; 503319, 3604989; 503389, 3604822; 503508, 3604612; 503537, 3604561; 503567, 3604506; 503620, 3604411; 503620, 3604400; 503619, 3604330; 503617, 3604074; 503617, 3603990; 503609, 3603990; 503569, 3603990; 503464, 3603991; 502923, 3603996; 502813, 3603997; 502813, 3603997; 502800, 3604601; 502800, 3604620; 502799, 3604653; 502800, 3604654; 502820, 3604686; 502830, 3604730; 502835, 3604781; 502836, 3604804; 502994, 3604803; 502991, 3604794; 503003, 3604742; 503041, 3604705; 503064, 3604692; 503074, 3604694; 503104, 3604726; 503111, 3604741; 503137, 3604801; 503208, 3604801; 503208, 3604953.

(iii) Subunit 5C. Land bounded by the following UTM NAD27 coordinates (E,N): 505948, 3603807; 505970, 3603764; 505991, 3603750; 506009, 3603736; 505983, 3603699; 505954, 3603652; 505908, 3603585; 505841, 3603550; 505808, 3603538; 505522, 3603537; 505458, 3603536; 505450, 3603546; 505435, 3603553; 505408, 3603570; 505401, 3603574; 505369, 3603601; 505358, 3603624; 505365, 3603650; 505375, 3603667; 505374, 3603667; 505390, 3603794; 505391, 3603794; 505416, 3603798; 505467, 3603821; 505484, 3603845; 505500, 3603876; 505487, 3603903; 505566, 3604008; 505566, 3604011; 505568, 3604010; 505578, 3604030; 505600, 3604057; 505623, 3604065; 505623, 3604065; 505622, 3604070; 505617, 3604088; 505625, 3604130; 505632, 3604141; 505633, 3604141; 505633, 3604141; 505641, 3604152; 505675, 3604184; 505720, 3604211; 505732, 3604218; 505732, 3604218; 505732, 3604218; 505785, 3604243; 505820, 3604252; 505844, 3604235; 505902, 3604197; 505948, 3604161; 505958, 3604137; 505958, 3604117; 505946, 3604091; 505926, 3604057; 505920, 3604041; 505929, 3604037; 505942, 3604028; 505949, 3604021; 505955, 3604011; 505961, 3603997; 505959, 3603982; 505951, 3603973; 505948, 3603966; 505942, 3603961; 505929, 3603951; 505914, 3603946; 505912, 3603945; 505912, 3603928; 505926, 3603866; 505936, 3603840.

(iv) Subunit 5D. Land bounded by the following UTM NAD27 coordinates (E,N): 509019, 3602417; 509019, 3602284; 509015, 3602132; 509048, 3602002; 509135, 3601973; 509203, 3602071; 509235, 3602133; 509236, 3602136; 509268, 3602255; 509270, 3602335; 509272, 3602407; 509308, 3602461; 509348, 3602490; 509438, 3602540; 509604, 3602573; 509727, 3602641; 509821, 3602670; 509926, 3602613; 510009, 3602537; 510009, 3602450; 509976, 3602327; 509915, 3602212; 509832, 3602096; 509727, 3601865; 509712, 3601746; 509692, 3601743; 509659, 3601737; 509628, 3601732; 509604, 3601726; 509576, 3601713; 509533, 3601697; 509504, 3601687; 509419, 3601669; 509357, 3601654; 509354, 3601654; 509315, 3601643; 509277, 3601623; 509010, 3601592; 508505, 3601541; 508494, 3601540; 508266, 3601517; 508266, 3601517; 508266, 3601517; 508265, 3601517; 507688, 3601459; 507688, 3601459; 507534, 3601443; 507508, 3601733; 507507, 3601736; 507509, 3601735; 507571, 3601753; 507517, 3601850; 507484, 3601937; 507560, 3601995; 507589, 3602056; 507582, 3602147; 507614, 3602241; 507654, 3602208; 507690, 3602147; 507719, 3602172; 507730, 3602248; 507737, 3602331; 507748, 3602410; 507787, 3602450; 507813, 3602403; 507860, 3602320; 507921, 3602190; 507983, 3602049; 508003, 3602033; 508113, 3601944; 508141, 3601999; 508161, 3602070; 508181, 3602147; 508217, 3602168; 508243, 3602118; 508279, 3602013; 508394, 3601901; 508524, 3601901; 508554, 3601918; 508651, 3601973; 508712, 3602061; 508719, 3602071; 508719, 3602165; 508719, 3602255; 508745, 3602302; 508795, 3602414; 508819, 3602464; 508839, 3602504; 508867, 3602504; 508887, 3602499; 508907, 3602494; 508936, 3602486; 509019, 3602425.

(v) Subunit 5F. Land bounded by the following UTM NAD27 coordinates (E,N): 500168, 3603213; 500175, 3603212; 500176, 3603212; 500176, 3603205; 500175, 3603200; 500174, 3603154; 500170, 3603022; 500168, 3602973; 500167, 3602921; 500166, 3602890; 500165, 3602890; 500150, 3602901; 500145,

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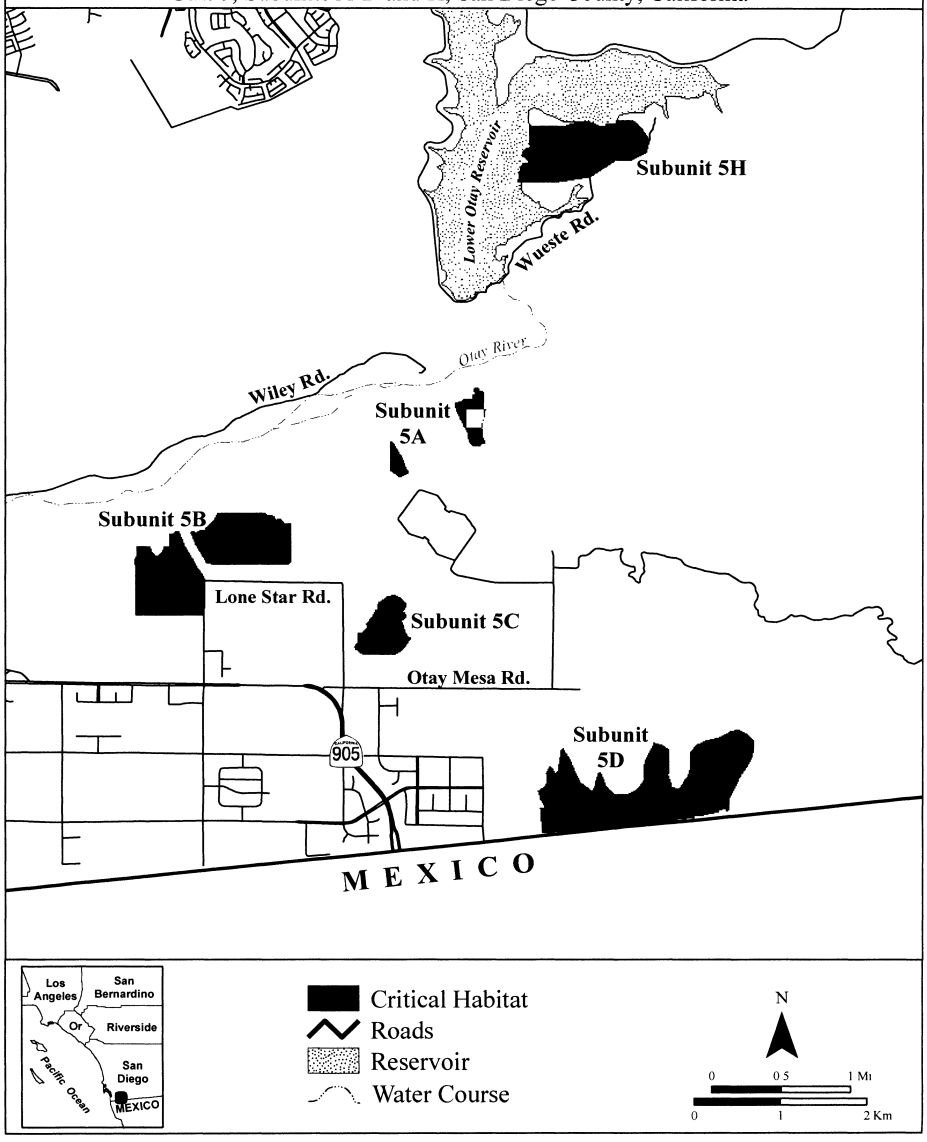
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(vii) Subunit 5H. Land bounded by the following UTM NAD27 coordinates (E,N): 507788, 3609712; 507858, 3609742; 507950, 3609771; 508044, 3609778; 508178, 3609744; 508218, 3609710; 508262, 3609710; 508280, 3609740; 508330, 3609757; 508397, 3609740; 508403, 3609790; 508604, 3609787; 508699, 3609699; 508787, 3609559; 508746, 3609407; 508557, 3609308; 508392, 3609308; 508090, 3609118; 507643, 3609056; 507269, 3609054; 507257, 3609091; 507269, 3609148; 507269, 3609191; 507290, 3609251; 507329, 3609280; 507389, 3609280; 507367, 3609319; 507310, 3609369; 507310, 3609419; 507338, 3609448; 507401, 3609470; 507382, 3609518; 507394, 3609547; 507391, 3609636; 507388, 3609713.

(viii) Subunit 5I. Land bounded by the following UTM NAD27 coordinates (E,N): 522790, 3603588; 522715, 3603505; 522712, 3603500; 522700, 3603500; 522700, 3603479; 522699, 3603478; 522663, 3603371; 522692, 3603132; 522639, 3603116; 522566, 3603131; 522529, 3603165; 522517, 3603225; 522514, 3603355; 522496, 3603446; 522488, 3603478; 522497, 3603494; 522563, 3603563; 522641, 3603627; 522720, 3603689; 522759, 3603708; 522791, 3603699; 522800, 3603685; 522800, 3603617.

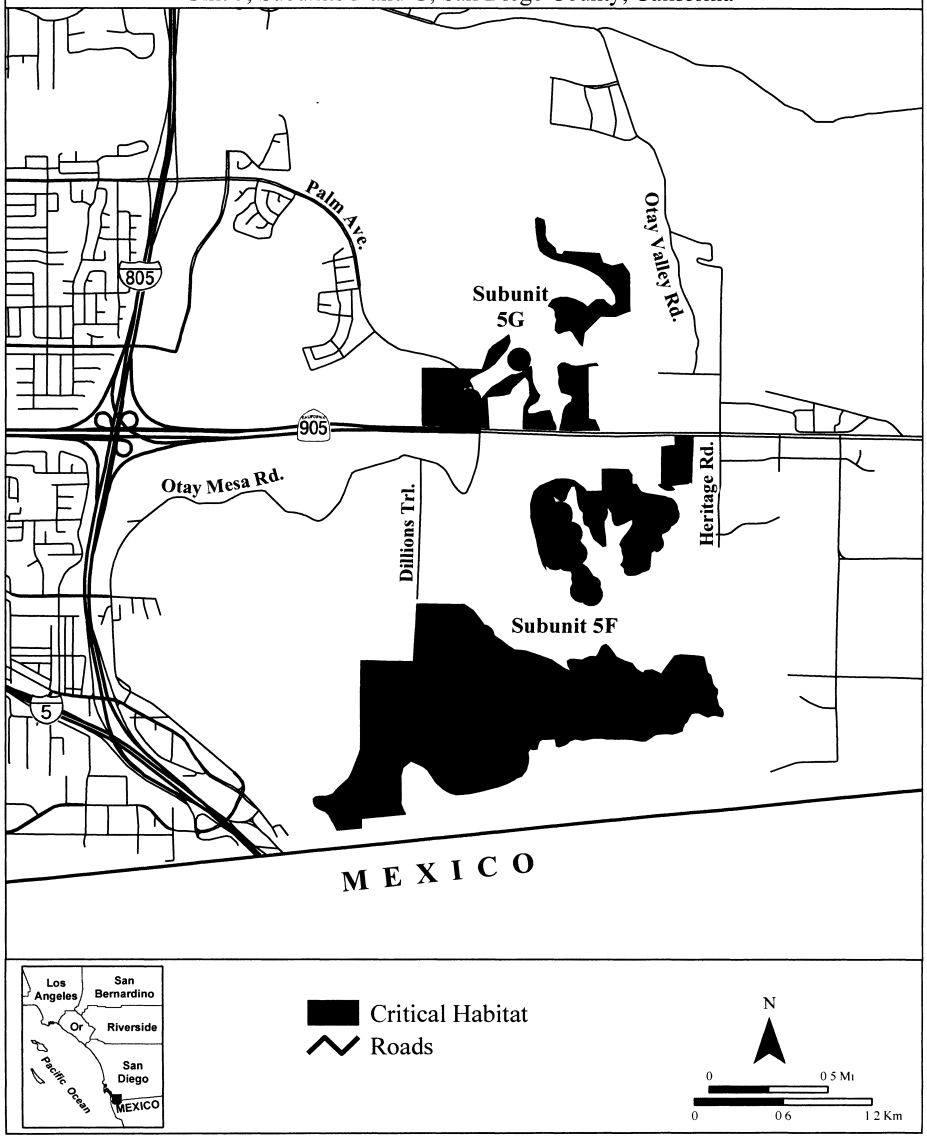
(ix) Note: Map of Unit 5, Subunits 5A, 5B, 5C, 5D, and 5H (Map 10) follows:

Map 10.
Critical Habitat for San Diego fairy shrimp (Branchinecta sandiegonensis)
Unit 5, Subunits A-D and H, San Diego County, California



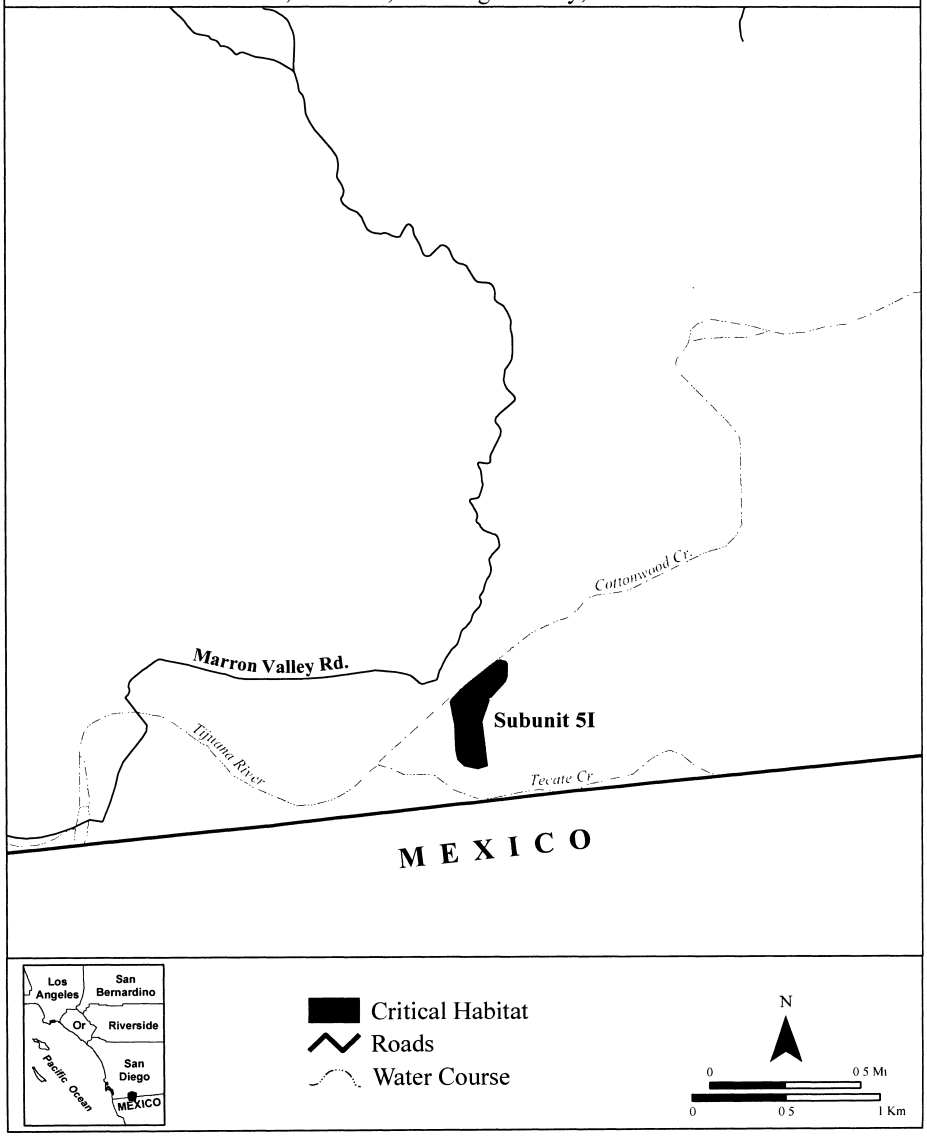
(x) Note: Map of Unit 5, Subunits 5F and 5G (Map 11) follows:

Map 11.
Critical Habitat for San Diego fairy shrimp (Branchinecta sandiegonensis)
Unit 5, Subunits F and G, San Diego County, California



(xi) Note: Map of Unit 5, Subunit 5I (Map 12) follows:

Map 12.
Critical Habitat for San Diego fairy shrimp (Branchinecta sandiegonensis)
Unit 5, Subunit I, San Diego County, California



VERNAL POOL FAIRY SHRIMP (*Branchinecta lynchi*)

(1) Critical habitat units are depicted for Jackson County, Oregon, and Alameda, Amador, Butte, Contra Costa, Fresno, Kings, Madera, Mariposa, Merced, Monterey, Napa, Placer, Sacramento, San Benito, San Joaquin, San Luis Obispo, Santa Barbara, Shasta, Solano, Stanislaus, Tehama, Tulare, Ventura, and Yuba Counties, California on the map below:

(2) The primary constituent elements of critical habitat for vernal pool fairy shrimp (*Branchinecta lynchi*) are the habitat components that provide:

(i) Topographic features characterized by mounds and swales and depressions within a matrix of surrounding uplands that result in complexes of continuously, or intermittently, flowing surface water in the swales connecting the pools described below in paragraph (2)(ii), providing for dispersal and promoting hydroperiods of adequate length in the pools;

(ii) Depressional features including isolated vernal pools with underlying restrictive soil layers that become inundated during winter rains and that continuously hold water for a minimum of 18 days, in all but the driest years; thereby providing adequate water for incubation, maturation, and reproduction. As these features are inundated on a seasonal basis, they do not promote the development of obligate wetland vegetation habitats typical of permanently flooded emergent wetlands;

(iii) Sources of food, expected to be detritus occurring in the pools, contributed by overland flow from the pools' watershed, or the results of biological processes within the pools themselves, such as single-celled bacteria, algae, and dead organic matter, to provide for feeding; and

(iv) Structure within the pools described above in paragraph (3)(ii), consisting of organic and inorganic materials, such as living and dead plants from plant species adapted to seasonally inundated environments, rocks, and other inorganic debris that may be washed, blown, or otherwise transported into the pools, that provide shelter.

(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) Unit 1: Jackson County, Oregon

(i) Unit 1A: Jackson County, Oregon. From USGS 1:24,000 scale quadrangle Shady Grove. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 514300, 4710800; 514300, 4710300; 514100, 4710300; 514100, 4709900; 513900, 4709900; 513900, 4709700; 513600, 4709700; 513600, 4709800; 513500, 4709800; 513500, 4710000; 513700, 4710000; 513700, 4710300; 513200, 4710300; 513200, 4710600; 513100, 4710600; 513100, 4710800; returning to 514300, 4710800;

(ii) Unit 1B: Jackson County, Oregon. From USGS 1:24,000 scale quadrangle Shady Grove. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 514100, 4707500; 514100, 4707300; 514000, 4707300; 514000, 4707200; 513900, 4707200; 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; returning to 514100, 4707500;

(iii) Unit 1C: Jackson County, Oregon. From USGS 1:24,000 scale quadrangle Shady Grove. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 511800, 4707800; 511800, 4707300; 511900, 4707300; 511900, 4706800; 512000, 4706800; 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; returning to 511800, 4707800.

(iv) Unit 1D: Jackson County, Oregon. From USGS 1:24,000 scale quadrangle Eagle Point. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 515900, 4706700; 515900, 4706500; 516000, 4706500; 516000, 4706400; 516100, 4706400; 516100, 4706600; 516000, 4706600; 516000, 4706700; 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;

(v) Unit 1E: Jackson County, Oregon. From USGS 1:24,000 scale quadrangle Shady Grove. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N):510800, 4707100; 510800, 4706900; 511000, 4706900; 511000, 4706500; 510700, 4706500; 510700, 4706300; 510500, 4706300; 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; returning to 510800, 4707100.

(vi) Unit 1F: Jackson County, Oregon. From USGS 1:24,000 scale quadrangle Shady Grove. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 511300, 4706000; 511300, 4705900; 511500, 4705900; 511500, 4705100; 511400, 4705100; 511400, 4704800; 511200, 4704800; 511200, 4705000; 511000, 4705000; 511000, 4705200; 510900, 4705200; 510900, 4705300; 510800, 4705300; 510800, 4705900; 511000, 4705900; 511000, 4706000; 511300, 4706000; excluding 511200, 4705500; 511200, 4705300; 511300, 4705300; 511300, 4705500; returning to 511200, 4705500;

(vii) Unit 1G: Jackson County, Oregon. From USGS 1:24,000 scale quadrangle Eagle Point. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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; 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; returning to 517600, 4705100

(5) Unit 2: Jackson County, Oregon.

(i) Unit 2A: Jackson County, Oregon. From USGS 1:24,000 scale quadrangle Eagle Point. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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; 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; returning to 514200, 4699200.

(ii) Unit 2B: Jackson County, Oregon. From USGS 1:24,000 scale quadrangle Eagle Point. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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; 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; returning to 517300, 4698400.

(iii) Unit 2C: Jackson County, Oregon. From USGS 1:24,000 scale quadrangle Eagle Point. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 516100, 4697800; 516100, 4697400; 515000, 4697400; 515000, 4697800; 515200, 4697800; 515200, 4697700; 515300, 4697700; 515300, 4697800; returning to 516100, 4697800.

(iv) Unit 2D. Jackson County, Oregon. From USGS 1:24,000 scale quadrangle Eagle Point. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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; 516200, 4696200; 515900, 4696200; 515900, 4696900; 516100, 4696900; 516100, 4697000; 516500, 4697000; 516500, 4697100; 516800, 4697100; 516800, 4697200; returning to 517000, 4697200.

(v) Unit 2E: Jackson County, Oregon. From USGS 1:24,000 scale quadrangle Eagle Point. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 515500, 4696600; 515500, 4696400; 515100, 4696400; 515100, 4696300; 515200, 4696300; 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; returning to 515500, 4696600; excluding 514500, 4696500; 514500, 4696400; 514300, 4696400; 514300, 4696500; 514200, 4696500; 514200, 4696400; 514100, 4696400; 514100, 4696300; 514700, 4696300; 514700, 4696500; returning to 514500, 4696500.

(6) Unit 3: Jackson County, Oregon.

(i) Unit 3A: Jackson County, Oregon. From USGS 1:24,000 scale quadrangle Eagle Point. Land bounded by the following UTM Zone 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.

(ii) Unit 3B: Jackson County, Oregon. From USGS 1:24,000 scale quadrangle Eagle Point, Sams Valley. Land bounded by the following UTM Zone 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 508500, 4697300; 508500, 4697100; returning to 508600, 4697100; 508600, 4697300; 508500, 4697300; also excluding 508800, 4697800; 508800, 4697700; 509100, 4697700; 509100, 4697800; returning to 508800, 4697800;

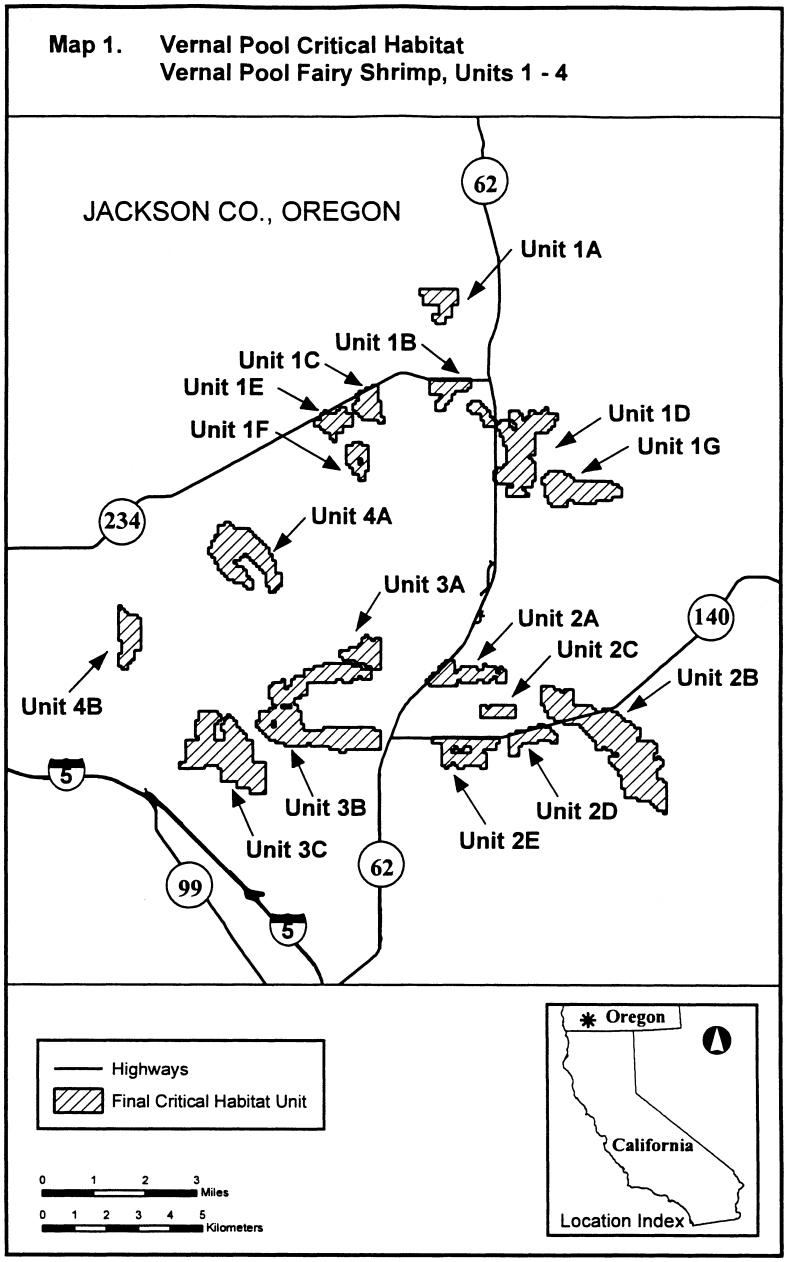
(iii) Unit 3C: Jackson County, Oregon. From USGS 1:24,000 scale quadrangle Sams Valley. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 506800, 4697600; 506800, 4697500; 506900, 4697500; 506900, 4697300; 506800, 4697300; 506800, 4697200; 506700, 4697200; 506700, 4696700; 507000, 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; 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; returning to 506800, 4697600.

(7) Unit 4: Jackson County, Oregon

(i) Unit 4A: Jackson County, Oregon. From USGS 1:24,000 scale quadrangle Sams Valley. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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; 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; returning to 507200, 4703500;

(ii) Unit 4B: Jackson County, Oregon. From USGS 1:24,000 scale quadrangle Sams Valley. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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; 504000, 4698900; 503800, 4698900; 503800, 4699000; 503700, 4699000; 503700, 4699400; 503800, 4699400; 503800, 4699800; 503700, 4699800; 503700, 4700900; returning to 503800, 4700900.

(iii) NOTE: Units 1–4 (Map 1) follow:



(8) Unit 5: Shasta County, California. From USGS 1:24,000 scale quadrangle Palo Cedro, Enterprise, Balls Ferry, Cottonwood. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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; 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; returning to 562500, 4487400;

(9) Unit 6: Tehama County, California. From USGS 1:24,000 scale quadrangle Red Bluff East, Red Bluff West, Gerber, West of Gerber, Corning, Henleyville. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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; 568673, 4440582; 568400, 4440400; 568300, 4439900; 568700, 4439100; 569500, 4439400; 569850, 4438750; 570194, 4438101; 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, 4431968; 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; 565297, 4426600; 565307, 4427383; 564276, 4427370; 564270, 4428012; 564280, 4428155; 563943, 4428136; 563688, 4428134; 563596, 4428131; 563607, 4427381; 563688, 4427377; 563689, 4426540; 563940, 4426553; 564800, 4426576; 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; 555800, 4423800; 555500, 4423800; 555400, 4423800; 555300, 4423700; 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; returning to 563400, 4444500;

(10) Unit 7: Tehama County, California.

(i) Unit 7A: Tehama County, California. From USGS 1:24,000 scale quadrangle Acorn Hollow and Richardson Springs NW. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 588739, 4429822; 588900, 4429500; 589500, 4429500; 589500, 4428600; 589500, 4428000; 589800, 4427100; 590500, 4426400; 590500, 4425300; 591200, 4424400; 591500, 4423300; 591562, 4422558; 590526, 4423686; 589986, 4424273; 589816, 4424458; 589129, 4425207; 588454, 4426221; 588425, 4426265; 588279, 4426485; 588213, 4426583; 588213, 4426584; 588600, 4429100; 588733, 4429833; returning to 588739, 4429822;

(ii) Unit 7B: Tehama County, California. From USGS 1:24,000 scale quadrangle Sloughhouse. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 593700, 4420900; 593164, 4420815; 592329, 4421723; 592258, 4421800; 593000, 4421800; 593100, 4421500; 593500, 4421400; returning to 593700, 4420900;

(iii) Unit 7C: Tehama County, California. From USGS 1:24,000 scale quadrangle Richard Springs NW. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 594500, 4420300; 593881, 4420035; 593371, 4420590; 594000, 4420800; 594400, 4420600; returning to 594500, 4420300;

(iv) Unit 7D: Tehama and Butte Counties, California. From USGS 1:24,000 scale quadrangle Campbell Mound, Richardson Springs, and Richardson Springs NW. Land bounded

by the following UTM Zone 10, NAD 83 coordinates (E,N): 597100, 4416400; 597100, 4415600; 597044, 4415525; 596800, 4415200; 597100, 4415000; 597800, 4415500; 598100, 4415200; 597600, 4414600; 597600, 4414400; 597300, 4413800; 597300, 4413300; 598200, 4413900; 598400, 4413900; 598400, 4413600; 597422, 4411938; 597281, 4412382; 596959, 4413403; 596640, 4414416; 596620, 4414481; 596305, 4415484; 596303, 4415489; 596130, 4416040; 596091, 4416160; 596028, 4416358; 596011, 4416411; 595993, 4416465; 595982, 4416500; 596000, 4416500; 596100, 4416400; 596200, 4416500; 596300, 4416600; 596400, 4416700; 596500, 4416700; 596500, 4416800; 596600, 4416800; returning to 597100, 4416400.

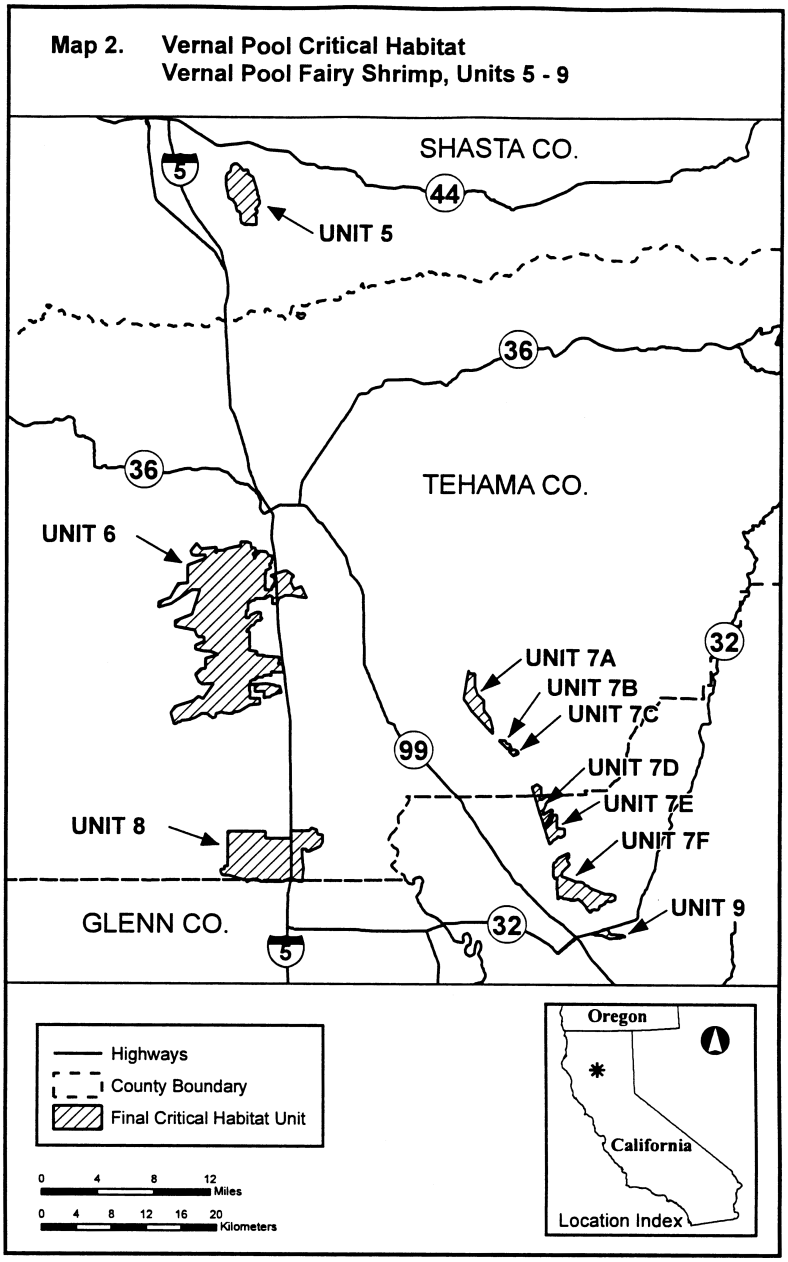
(v) Unit 7E: Butte County, California. From USGS 1:24,000 scale quadrangle Richardson Springs. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 598900, 4411800; 599400, 4411700; 599800, 4411700; 599800, 4411000; 599300, 4410700; 599100, 4410800; 599000, 4410800; 598800, 4410600; 598500, 4410400; 598300, 4410100; 598100, 4410000; 598070, 4409970; 598051, 4409993; 598038, 4410010; 598014, 4410083; 597806, 4410737; 597725, 4410990; 597461, 4411816; 597434, 4411900; 597600, 4411900; 598300, 4412700; 598500, 4413300; 598900, 4413300; returning to 598900, 4411800;

(vi) Unit 7F: Butte County, California, California. From USGS 1:24,000 scale quadrangle Richardson Springs. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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; 602900, 4402100; 602700, 4402100; 602300, 4402600; 602300, 4402700; 601800, 4403300; 601714, 4403300; 601553, 4403500; 601501, 4403499; 601465, 4403621; 601319, 4403663; 601226, 4403595; 601089, 4403571; 600979, 4403503; 600901, 4403569; 600860, 4403446; 600704, 4403566; 600542, 4403475; 600507, 4403530; 600473, 4403563; 600453, 4403580; 600369, 4403651; 600344, 4403642; 600232, 4403605; 599983, 4403679; 599973, 4403678; 599801, 4403662; 599725, 4403718; 599651, 4403697; 599493, 4403839; 599328, 4403862; 599302, 4403865; 599269, 4403870; 599084, 4403634; 599024, 4403611; 598987, 4404400; 598980, 4404543; 598971, 4404723; 598955, 4405388; 598953, 4405458; 598951, 4405529; 598947, 4405677; 598934, 4405719; 598919, 4405750; 599000, 4405800; 598900, 4406100; 598700, 4406000; 598694, 4406000; 598635, 4406058; 598598, 4406103; 598583, 4406127; 598567, 4406159; 598549, 4406210; 598544, 4406234; 598540, 4406255; 598533, 4406421; 598522, 4406815; 598516, 4407133; 598511, 4407496; 598513, 4407515; 598525, 4407568; 598527, 4407571; 598527, 4407589; 598580, 4407812; 598800, 4407900; 598900, 4408100; 599200, 4408400; 600200, 4408900; 600300, 4408800; 600300, 4408400; 600000, 4408100; 600400, 4407600; 599500, 4406700; returning to 599500, 4406200.

(11) Unit 8: Tehama and Glenn Counties, California. From USGS 1:24,000 scale quadrangle Kirkwood and Black Butte Dam. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 572100, 4410900; 572100, 4410100; 571800, 4409600; 570500, 4409000; 570200, 4409000; 570200, 4409300; 569700, 4409300; 569700, 4409000; 569800, 4407700; 569900, 4407000; 569800, 4406100; 569800, 4405643; 569800, 4405500; 569400, 4405500; 569107, 4405647; 568600, 4405900; 568300, 4405900; 567809, 4405654; 567500, 4405500; 567200, 4405500; 565000, 4405500; 564769, 4405673; 564600, 4405800; 564100, 4405800; 563860, 4405680; 563700, 4405600; 563400, 4405400; 563214, 4405679; 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, 4410600; 568400, 4411400; 570500, 4411400; 570800, 4411700; 571400, 4411500; 571500, 4411000; returning to 572100, 4410900;

(12) Unit 9: Butte County, California. From USGS 1:24,000 scale quadrangle Chico. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 605100, 4399600; 606500, 4399500; 606797, 4399330; 606777, 4399300; 606724, 4399252; 606568, 4399265; 606528, 4399272; 606479, 4399279; 606478, 4399279; 606394, 4399264; 606362, 4399238; 606329, 4399210; 606274, 4399169; 606209, 4399135; 606125, 4399122; 606060, 4399122; 605967, 4399131; 605899, 4399134; 605857, 4399134; 605822, 4399130; 605789, 4399116; 605781, 4399138; 605775, 4399149; 605764, 4399152; 605763, 4399152; 605701, 4399142; 605589, 4399116; 605504, 4399107; 605432, 4399110; 605319, 4399064; 605233, 4399045; 605173, 4399034; 605135, 4399023; 605134, 4399023; 605127, 4399023; 605109, 4399023; 605080, 4399025; 605063, 4399025; 605002, 4399051; 604957, 4399069; 604907, 4399092; 604029, 4399508; 603896, 4399435; 603886, 4399435; 603879, 4399436; 603300, 4399523; 603300, 4399600; 602900, 4399600; 603500, 4399800; 604700, 4400200; returning to 605100, 4399600.

(13) NOTE: Units 5–9 (Map 2) follow:



(14) Unit 10: Glenn and Colusa Counties, California. This unit was excluded from the designation pursuant to Section 4(b)(2) of the Act.

(15) Unit 11: Yuba County, California. From USGS 1:24,000 scale quadrangle Browns Valley and Wheatland. Land bounded by the following UTM Zone 10, NAD 83 coordinates

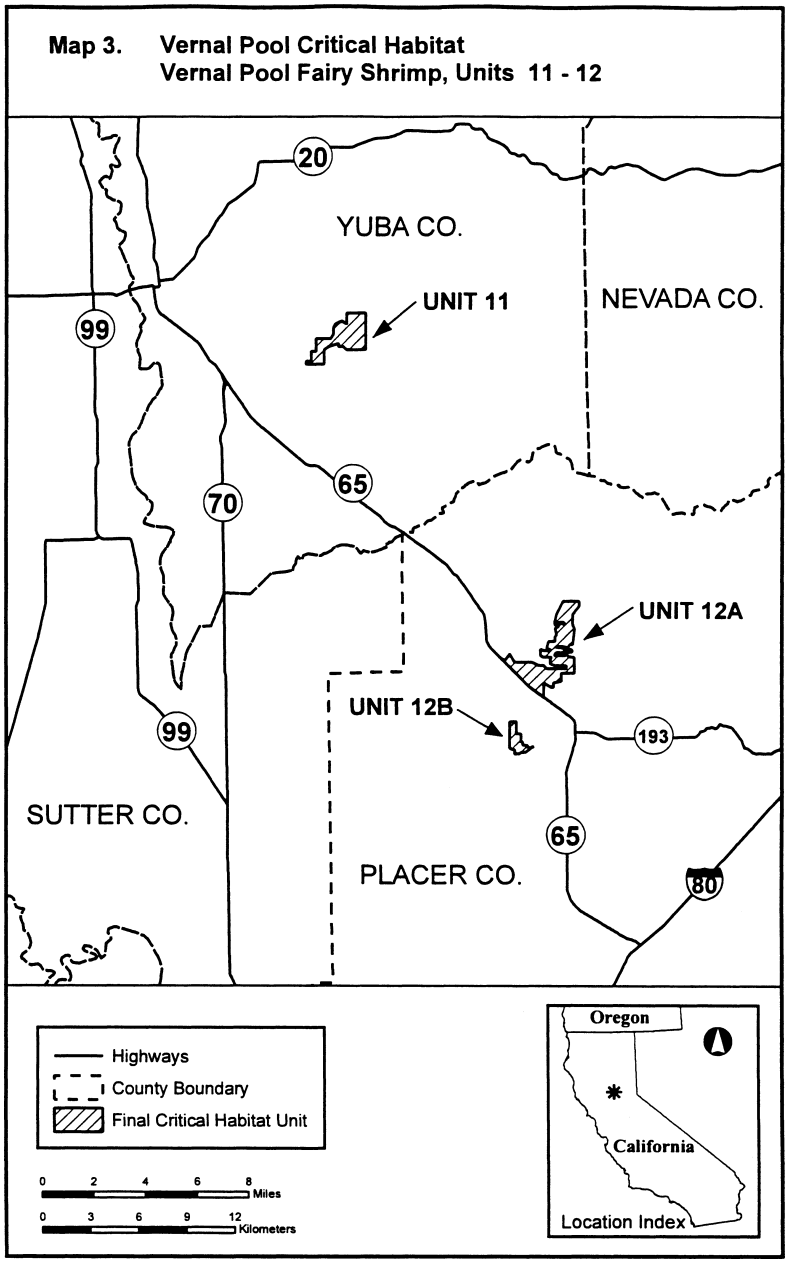
(E,N): 635000, 4332200; 635000, 4329900; 634600, 4329900; 633800, 4329900; 633600, 4330100; 633500, 4330100; 633300, 4330100; 633300, 4330300; 632700, 4330100; 632400, 4329900; 632400, 4329000; 631300, 4329000; 631300, 4329200; 631600, 4329200; 631600, 4329800; 631900, 4329800; 631900, 4330600; 632800, 4330600; 633000, 4330900; 633000, 4331300; 633100, 4331500; 633500, 4331700; 633800, 4331500; 633800, 4332200; returning to 635000, 4332200.

(16) Unit 12: Placer County, California.

(i) Unit 12A: Placer County, California. From USGS 1:24,000 scale quadrangle Lincoln. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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, 4310000; 648000, 4309700; 647200, 4309700; 647200, 4309200; 646700, 4309100; 646700, 4308800; 646600, 4308800; 646100, 4309100; 646100, 4308200; 646126, 4308174; 646012, 4308259; 645967, 4308294; 645917, 4308327; 645822, 4308387; 645337, 4308742; 645215, 4308841; 645100, 4308942; 644197, 4309858; 644195, 4309860; 644194, 4309862; 644149, 4309914; 643464, 4310618; 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, 4311900; 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; returning to 647900, 4313400;

(ii) Unit 12B: Placer County, California. From USGS 1:24,000 scale quadrangle Lincoln. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 644400, 4306677; 644400, 4305900; 644700, 4305900; 644700, 4305400; 644800, 4305400; 644800, 4305200; 645100, 4305200; 645100, 4305100; 645200, 4305000; 645400, 4305100; 645526, 4305100; 645502, 4305086; 645456, 4305073; 645413, 4305069; 645405, 4305070; 645394, 4305065; 645377, 4305040; 645344, 4305023; 645314, 4305010; 645277, 4304988; 645258, 4304970; 645235, 4304941; 645228, 4304937; 645208, 4304916; 645145, 4304856; 645068, 4304806; 644987, 4304762; 644904, 4304734; 644828, 4304731; 644796, 4304732; 644778, 4304737; 644764, 4304744; 644764, 4304742; 644744, 4304744; 644707, 4304725; 644667, 4304698; 644626, 4304669; 644600, 4304649; 644575, 4304634; 644563, 4304634; 644560, 4304636; 644554, 4304639; 644540, 4304653; 644526, 4304663; 644515, 4304656; 644483, 4304652; 644439, 4304646; 644388, 4304643; 644357, 4304642; 644327, 4304640; 644316, 4304635; 644300, 4304631; 644300, 4304900; 644100, 4304900; 644100, 4305000; 644000, 4305000; 644000, 4306669; returning to 644400, 4306677.

(iii) NOTE: Units 11–12 (Map 3) follow:



(17) Unit 13: Sacramento County, California. From USGS 1:24,000 scale quadrangle Carmichael. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 649800, 4269600; 649800, 4268700; 650400, 4268900; 650800, 4268800; 651000, 4268800; 651000, 4269400; 651800, 4269300; 651500, 4268800; 651600, 4267900; 651600, 4266500; 651500, 4266400; 651500, 4266300;

651100, 4266300; 651100, 4266000; 651570, 4265812; 651589, 4265075; 651600, 4264400; 651400, 4264400; 651400, 4264200; 650500, 4264200; 650500, 4264300; 650400, 4264300; 650400, 4264600; 650000, 4264700; 649900, 4265100; 649400, 4265100; 649100, 4265000; 648900, 4265100; 648700, 4265100; 648700, 4265300; 648700, 4265500; 649900, 4265500; 649900, 4266000; 648300, 4266000; 648300, 4266200; 648500, 4266400; 648700, 4266200; 649000, 4266200; 649300, 4266400; 649400, 4266600; 649635, 4266678; 649700, 4266700; 649794, 4266693; 650200, 4267100; 650400, 4267000; 650600, 4267000; 650800, 4267200; 650900, 4267500; 650800, 4267900; 650500, 4267800; 650300, 4268100; 649900, 4268400; 649400, 4268100; 649100, 4267800; 649100, 4267500; 649400, 4267400; 649200, 4267100; 648400, 4267100; 648300, 4267700; 648000, 4268000; 648600, 4268500; 649400, 4268900; 649400, 4269200; 649600, 4269600; returning to 649800, 4269600.

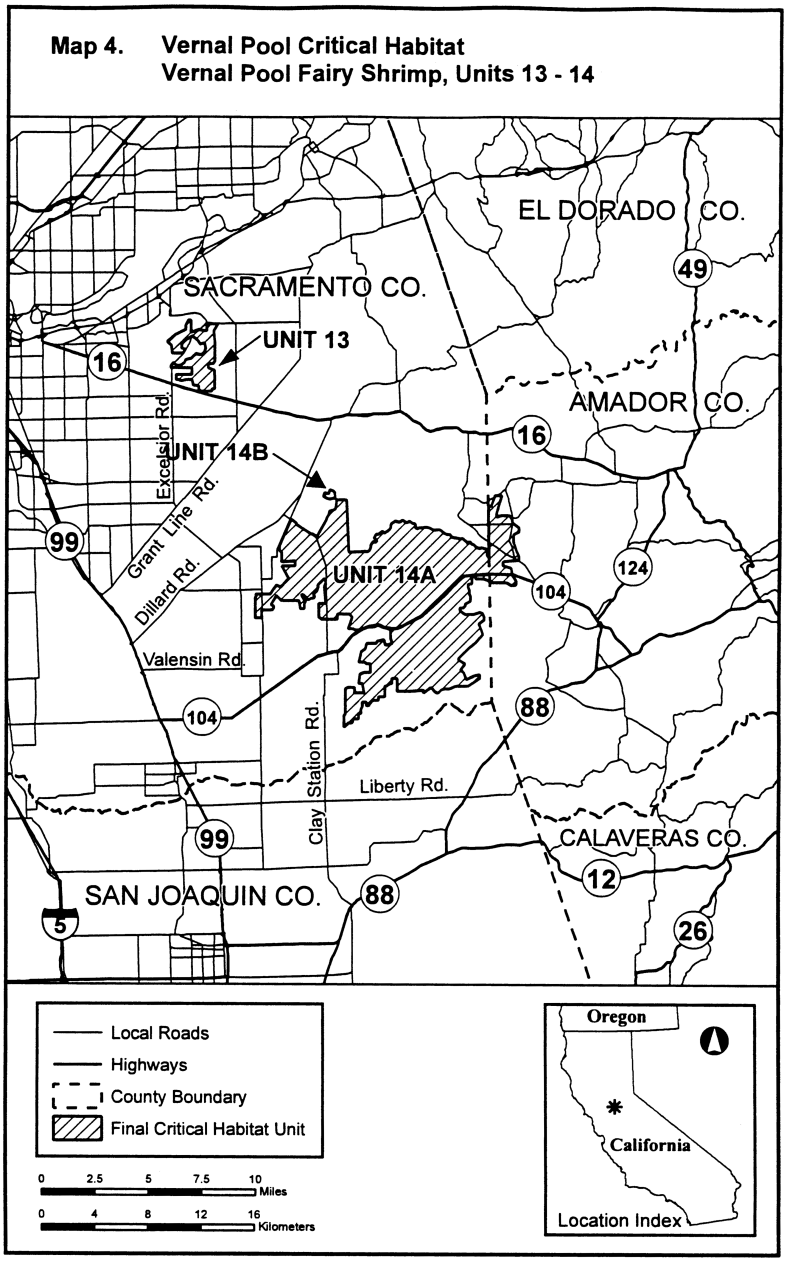
(18) Unit 14: Sacramento and Amador County, California.

(i) Unit 14A: Sacramento and Amador County, California. From USGS 1:24,000 scale quadrangle Carbondale, Sloughhouse, Goose Creek, and Clay. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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; 672315, 4249992; 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; 671800, 4246000; 671255, 4245364; 670800, 4245000; 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(ii) Unit 14B: Sacramento County, California. From USGS 1:24,000 scale quadrangle Sloughhouse. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 660660, 4256508; 660681, 4256119; 660600, 4256200; 660300, 4256100; 660000, 4256200; 659800, 4256300; 659850, 4256450; 659900, 4256600; 660200, 4256500; 660300, 4256800; 660515, 4256728; 660633, 4256644; 660645, 4256626; returning to 660660, 4256508.

(iii) NOTE: Units 13–14 (Map 4) follow:



(19) Unit 16: Solano County, California.

(i) Unit 16A: Solano County, California. From USGS 1:24,000 scale quadrangle Elmira, Denverton, and Fairfield South. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 594915, 4234098; 594916, 4233314; 595044, 4233310; 595068, 4233296; 595131, 4233266; 595174, 4233226; 595189, 4233210; 595239,

4233151; 595322, 4232978; 595423, 4232778; 595483, 4232667; 595553, 4232524; 595699, 4232243; 595966, 4231717; 594927, 4231710; 594445, 4231707; 594409, 4231673; 594410, 4231616; 594434, 4231540; 594474, 4231494; 594495, 4231457; 594497, 4231414; 594510, 4231370; 594543, 4231356; 594575, 4231342; 594603, 4231341; 594614, 4231338; 594616, 4231325; 594618, 4231311; 594614, 4231290; 594605, 4231284; 594583, 4231275; 594573, 4231268; 594557, 4231245; 594550, 4231209; 594543, 4231179; 594500, 4231200; 593800, 4231200; 593600, 4230500; 593291, 4230515; 593291, 4230514; 593700, 4229900; 594000, 4229700; 593900, 4229600; 593900, 4229500; 594000, 4229400; 593900, 4229300; 593900, 4229100; 594300, 4229000; 594300, 4228500; 593700, 4228400; 593500, 4228100; 592800, 4228100; 592700, 4228000; 592600, 4228000; 592500, 4227900; 592200, 4227800; 592000, 4227500; 591700, 4227400; 591500, 4227200; 591200, 4227100; 590900, 4227000; 590700, 4227100; 590400, 4227100; 589400, 4227400; 589265, 4227400; 589026, 4227463; 588707, 4227579; 587979, 4227869; 587973, 4227872; 587467, 4228036; 587339, 4228077; 587009, 4228197; 586933, 4228334; 586900, 4228400; 586700, 4228500; 586600, 4229000; 586400, 4229100; 586200, 4229100; 586100, 4229300; 585400, 4229900; 585400, 4230100; 585500, 4230200; 585000, 4230300; 585100, 4230400; 585000, 4230500; 585111, 4230567; 585124, 4230550; 585327, 4230585; 585319, 4230629; 585295, 4230649; 585270, 4230662; 585500, 4230800; 585600, 4231100; 585903, 4231100; 585908, 4231071; 585926, 4231064; 585956, 4231058; 586038, 4231061; 586045, 4231073; 586045, 4231088; 586027, 4231096; 586022, 4231100; 586267, 4231100; 586273, 4231084; 586323, 4231038; 586340, 4230994; 587435, 4231016; 587882, 4231052; 587967, 4231111; 587991, 4231124; 588015, 4231126; 588034, 4231123; 588075, 4231099; 588085, 4231097; 588116, 4231095; 588700, 4230900; 588842, 4230900; 588842, 4230900; 588925, 4230897; 588989, 4230899; 589090, 4230913; 589179, 4230901; 589179, 4230901; 589240, 4230894; 589274, 4230890; 589315, 4230894; 589321, 4230909; 589313, 4231179; 589015, 4231215; 589100, 4231300; 589100, 4231700; 588600, 4231600; 588440, 4231680; 588417, 4232400; 588500, 4232400; 588500, 4232500; 588600, 4232500; 588600, 4232800; 588400, 4233000; 588600, 4233300; 588700, 4233500; 589300, 4233500; 589983, 4233500; 590000, 4233500; 590100, 4233500; 590100, 4233300; 590600, 4233300; 591100, 4232800; 591138, 4232825; 591143, 4232820; 591184, 4232856; 591700, 4233200; 592513, 4233290; 592594, 4233291; 592594, 4233299; 592600, 4233300; 592600, 4233800; 592900, 4233700; 592900, 4233751; 592901, 4233751; 592900, 4233754; 592900, 4233800; 593400, 4234100; 594200, 4234100; 594300, 4234900; 594500, 4234900; 594890, 4235396; returning to 594915, 4234098.

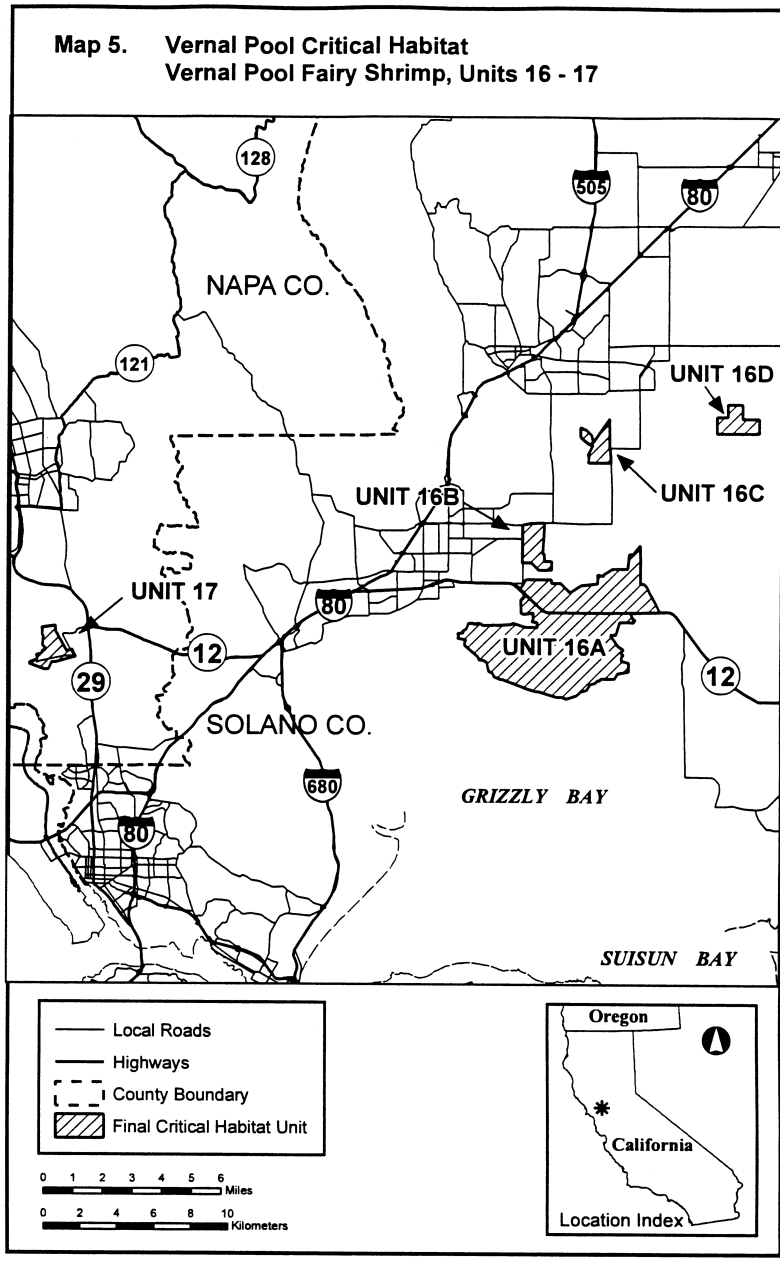
(ii) Unit 16B: Solano County, California. From USGS 1:24,000 scale quadrangle Elmira and Denverton. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 589698, 4236560; 589600, 4234900; 589700, 4234900; 589700, 4234500; 590100, 4234500; 590100, 4234064; 590100, 4234000; 589400, 4234000; 589000, 4234400; 588500, 4234400; 588500, 4236400; 588549, 4236449; 588944, 4236551; 589524, 4236558; 589670, 4236559; returning to 589698, 4236560.

(iii) Unit 16C: Solano County, California. From USGS 1:24,000 scale quadrangle Elmira. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 593200, 4242200; 593200, 4240600; 593211, 4240600; 593255, 4239807; 592030, 4239793; 592062, 4240126; 592044, 4240137; 592026, 4240170; 592026, 4240181; 592030, 4240261; 592300, 4240800; 592100, 4240800; 591800, 4241000; 591700, 4241100; 591600, 4241200; 591600, 4241300; 591600, 4241700; 591700, 4241700; 591800, 4241600; 591900, 4241600; 592000, 4241500; 592200, 4241300; 592300, 4240900; returning to 593200, 4242200.

(iv) Unit 16D: Solano County, California. From USGS 1:24,000 scale quadrangle Dozier. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 600400, 4243000; 600400, 4242200; 601300, 4242200; 601300, 4241416; 601002, 4241415; 600878, 4241415; 600446, 4241414; 600021, 4241414; 599000, 4241412; 599000, 4242300; 599600, 4242300; 599600, 4243000; returning to 600400, 4243000.

(20) Unit 17: Napa County, California. From USGS 1:24,000 scale quadrangle Cuttings Wharf. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 563200, 4230600; 563800, 4229500; 564100, 4229600; 564300, 4229200; 563200, 4228900; 563000, 4228900; 562800, 4228500; 562622, 4228500; 562261, 4228644; 561890, 4228781; 561756, 4228832; 561798, 4228870; 561864, 4228920; 562198, 4229067; 562156, 4229301; 562420, 4229359; 562483, 4229527; 562531, 4229524; 562620, 4229552; 562652, 4229575; 562655, 4229641; 562604, 4229686; 562537, 4229781; 562480, 4229857; 562528, 4230295; 562458, 4230498; 562480, 4230568; 562477, 4230610; 562477, 4230692; 562464, 4230746; 562476, 4230800; 562500, 4230800; 563200, 4230900; returning to 563200, 4230600.

(21) NOTE: Units 16–17 (Map 5) follow:



(22) Unit 18: San Joaquin County, California. From USGS 1:24,000 scale quadrangle Valley Springs SW, Linden, Farmington, and Peters. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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; 676800, 4210900; 677200, 4211300; 678700, 4211300; 678800, 4210500; 680200, 4210400; 680200, 4209700; 681100, 4209700; 681800, 4210300; 682002, 4210263; 682013, 4209755; 682023, 4209287; 681500, 4209100; 681300, 4208500; 680800, 4208400; 680800, 4206100; 680500, 4205700; 680400, 4205100; 679700, 4204600; 679700, 4203300; 679200, 4203300; 679200, 4203400; 679000, 4203400; 679000, 4203300; 678500, 4203300; 678400, 4203100; 678300, 4203100; 678300, 4203000; 678400, 4202900; 678400, 4202700; 677700, 4202200; 677600, 4201700; 677500, 4201700; 677425, 4201625; 677367, 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, 4207400; 674000, 4207400; 674000, 4207700; 674700, 4207500; 674700, 4207200; 675100, 4207200; 675600, 4207400; 675600, 4208100; 675300, 4208100; 675300, 4208000; 674500, 4208000; 674400, 4208100; 674200, 4208200; 673930, 4208380; 673907, 4208701; 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, 4211867; 675350, 4211900; 675500, 4211900; 675500, 4212000; 675500, 4212400; returning to 676000, 4212400;

(23) Unit 19: Contra Costa County, California.

(i) Unit 19A: Contra Costa County, California. From USGS 1:24,000 scale quadrangle Brentwood and Antioch South. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 612500, 4195900; 611700, 4194500; 611700, 4194300; 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; returning to 612500, 4195900;

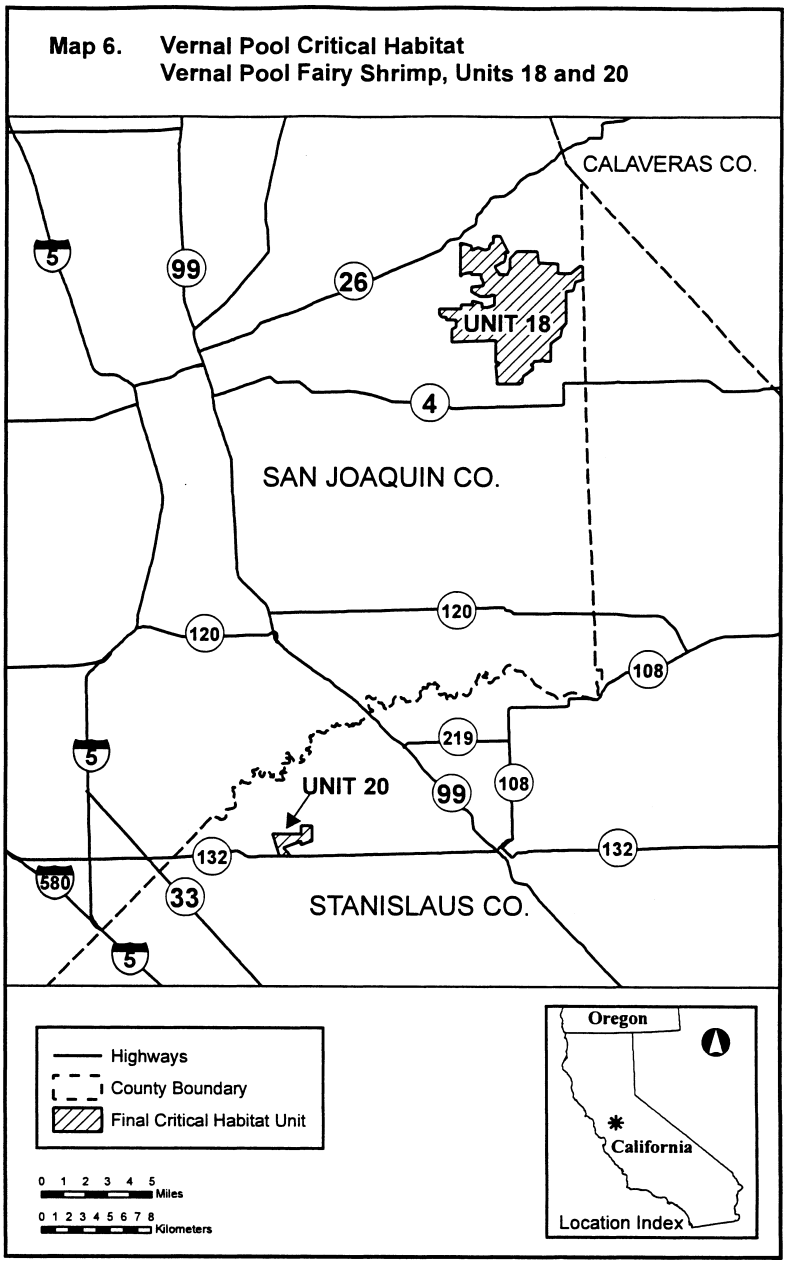
(ii) Unit 19B: Contra Costa County, California. From USGS 1:24,000 scale quadrangle Clifton Court Forebay and Byron Hot Springs. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 621800, 4191200; 622200, 4190700; 622275, 4190400; 622400, 4189900; 623000, 4189300; 622900, 4188700; 622200, 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; 621319, 4187272; 621338, 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; 619400, 4185700; 618200, 4186600; 618100, 4187100; 617700, 4187400; 617800, 4187900; 618200, 4188100; 618500, 4188300; 618400, 4188600; 617700, 4188800; 617800, 4188900; 617618, 4188855; 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; 620400, 4190900; 620500, 4191200; returning to 621800, 4191200;

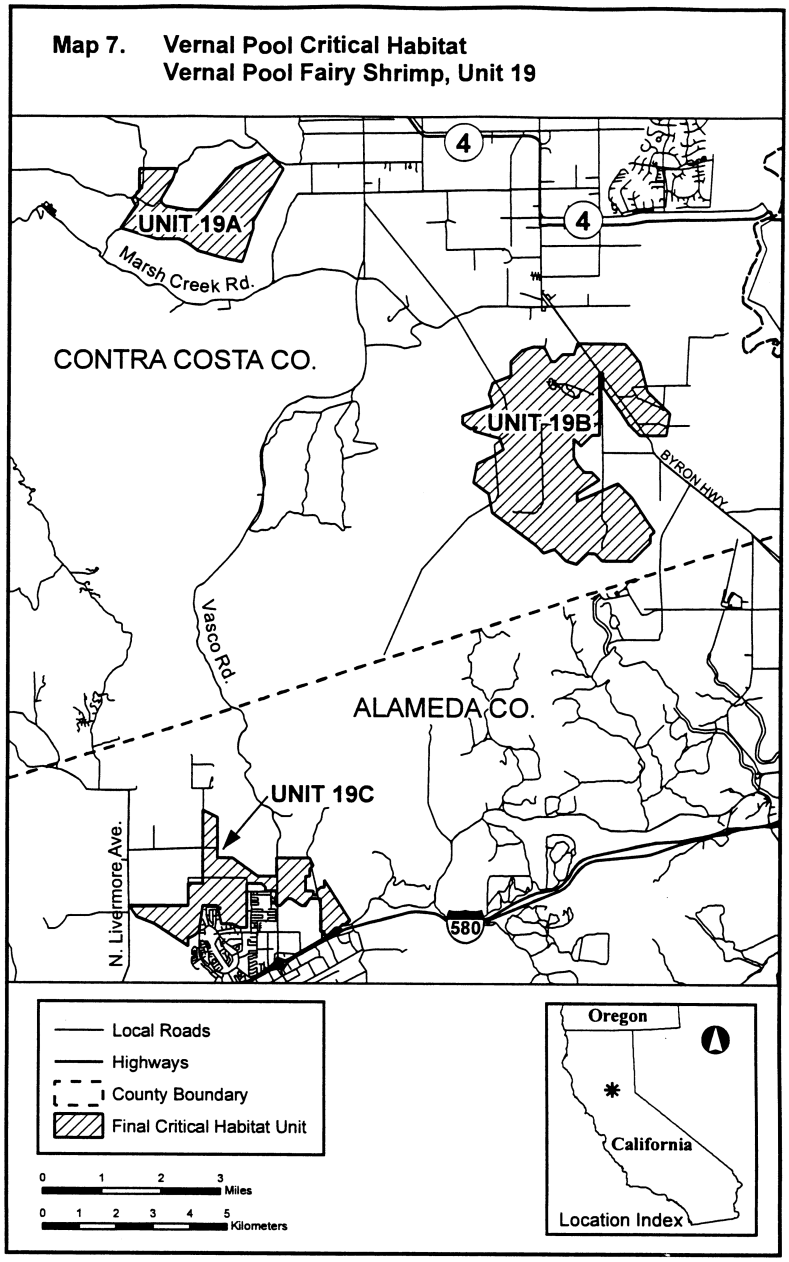
(iii) Unit 19C: Alameda County, California. From USGS 1:24,000 scale quadrangle Altamont and Livermore. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 610800, 4177500; 610800, 4177200; 611200, 4177200; 611900, 4176700; 612300, 4176700; 612400, 4176700; 612400, 4177200; 613300, 4177200; 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; 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; returning to 610800, 4177500;

(24) Unit 20: Stanislaus County, California. From USGS 1:24,000 scale quadrangle Ripon. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 662400, 4168300; 661600, 4168000; 661600, 4168300; 660300, 4167800; 660600, 4167500; 660800, 4167200; 660000, 4167200; 659500, 4168800; 661600, 4168800; 661600, 4169400; 662400, 4169400; returning to 662400, 4168300;

(25) NOTE: Maps of Units 18, 19, and 20 (Maps 6 and 7) follow:

Map 6. Vernal Pool Critical Habitat
Vernal Pool Fairy Shrimp, Units 18 and 20





(26) Unit 21: Stanislaus County, California.

(i) Unit 21A: Stanislaus County, California. From USGS 1:24,000 scale quadrangle Paulsell and Montpelier. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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;

(ii) Unit 21B: Stanislaus, Merced, and Mariposa Counties, California. From USGS 1:24,000 scale quadrangle La Grange, Cooperstown, Paulsell, Turlock Lake, Snelling, Montpelier and Merced Falls. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 725100, 4167900; 725300, 4167200; 726200, 4167100; 726500, 4166800; 726500, 4166600; 726727, 4166429; 727300, 4166000; 727700, 4165800; 729000, 4165800; 730100, 4165400; 730400, 4165100; 730500, 4164900; 730700, 4164100; 731300, 4164100; 731700, 4163800; 731800, 4163400; 732200, 4162800; 732200, 4162500; 732700, 4162700; 733000, 4162600; 733600, 4162100; 733700, 4161500; 733600, 4161000; 734600, 4160400; 734727, 4160273; 734800, 4160200; 734800, 4160135; 734800, 4159500; 734400, 4158700; 734300, 4158100; 734500, 4157900; 734700, 4158000; 734900, 4158300; 735000, 4158800; 735500, 4158800; 735505, 4158795; 735700, 4158600; 735674, 4158472; 735600, 4158100; 736171, 4157529; 736200, 4157500; 736800, 4157300; 736900, 4157100; 736900, 4156500; 736712, 4156500; 736300, 4156500; 736000, 4156300; 735500, 4156300; 734100, 4156900; 733400, 4157100; 731700, 4156900; 730900, 4156500; 728900, 4156600; 728700, 4156700; 728700, 4156800; 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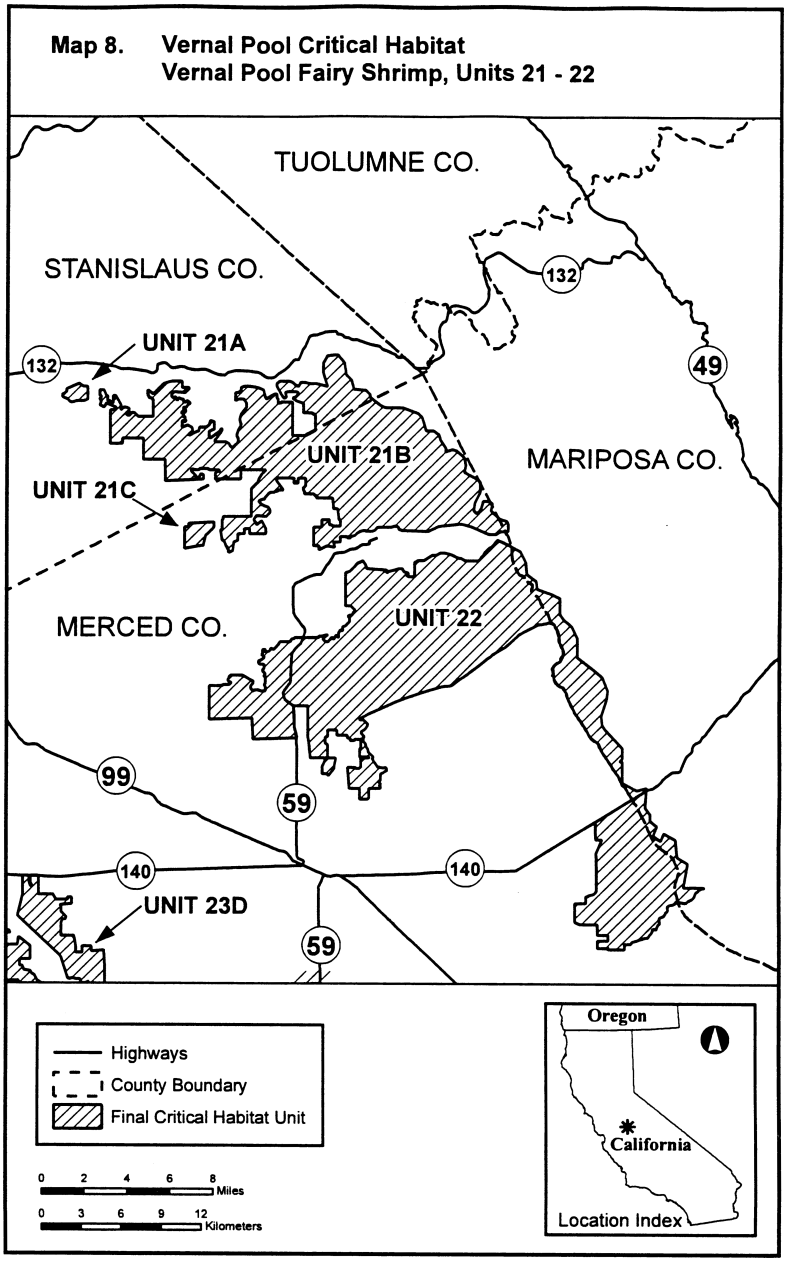
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(iii) Unit 21C: Merced County, California. From USGS 1:24,000 scale quadrangle Turlock Lake. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 713800,4155400; 712600,4155200; 712600,4156800; 712900,4156800; 712900,4157100; 714800,4157200; 714800,4156800; 714300,4156300; 714200,4156200; 714000,4155500; 714000,4155400; returning to 713800,4155400;

(27) Unit 22: Merced County, California. From USGS 1:24,000 scale quadrangle Merced Falls, Snelling, Indian Gulch, Haystack Mtn., Yosemite Lake, Winton, Owens Reservoir, Planada, Le Grand, Plainsburg, and Merced. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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; 745500,4139576; 745500,4139500; 745432,4139432; 745400,4139400; 745339,4139307; 745338,4139306; 745334,4139300; 745500,4139300; 745500,4139100; 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; 751693,4129800; 751681,4129794; 751664,4129785; 751654,4129772; 751560,4129753; 751457,4129733; 751416,4129705; 751410,4129701; 751400,4129700; 751399,4129700; 751326,4129693; 751299,4129685; 751191,4129530; 751123,4129507; 751088,4129488; 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734012,4145909; 733808,4145758; 733765,4145739; 733763,4145732; 733370,4145442; 732703,4144952; 732391,4144910;

732197,4144885; 731993,4144850; 731062,4144594; 730371,4144363; 729000,4143905; 728736,4143813; 728542,4143745; 728346,4143647; 728018,4143482; 727340,4143194; 726795,4142958; 726607,4142867; 726599,4142856; 726577,4142853; 725785,4142417; 725793,4142408; 725843,4142361; 726002,4142378; 726117,4142355; 726204,4142264; 726415,4142046; 726420,4141975; 726381,4141921; 726367,4141880; 726261,4141732; 726182,4141648; 725935,4141477; 725916,4141451; 725903,4141379; 725914,4141349; 725981,4141288; 726033,4141240; 726145,4141137; 726156,4141109; 726147,4141073; 726096,4140993; 726083,4140896; 726089,4140784; 726108,4140739; 726268,4140551; 726269,4140436; 726283,4140368; 726313,4140308; 726412,4140209; 726455,4140025; 726457,4140000; 726459,4139959; 726715,4139715; 726786,4139647; 726804,4139630; 726822,4139625; 726822,4139611; 726823,4139582; 726809,4139546; 726755,4139466; 726754,4139433; 726931,4139179; 727174,4138842; 727220,4138823; 727261,4138819; 727328,4138864; 727331,4138842; 727333,4138831; 727335,4138819; 727343,4138816; 727396,4138803; 727406,4138800; 727414,4138798; 727552,4138779; 727711,4138793; 727806,4138786; 727819,4138766; 727845,4138644; 727858,4138617; 727881,4138590; 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; 727800,4153600; 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; 737157,4155367; returning to 737800,4155000;

(28) NOTE: Units 21–22 (Map 8) follow:



(29) Unit 23: Merced County, California

(i) Unit 23A: Merced County, California. From USGS 1:24,000 scale quadrangle Stevinson, Gustine, and San Luis Ranch. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 688300, 4129000; 688600, 4128800; 689100, 4128900; 689200, 4128800; 689400, 4128600; 689800, 4128500; 689900, 4128300;

690200, 4128300; 690400, 4128200; 690500, 4128000; 690600, 4125500; 692700, 4125500; 693200, 4125000; 693100, 4124800; 693100, 4124400; 693300, 4123700; 693600, 4123400; 693800, 4123000; 694000, 4122900; 694079, 4122821; 694035, 4122790; 692453, 4121671; 692300, 4121900; 692200, 4122000; 692200, 4122500; 692100, 4122700; 691800, 4122800; 691400, 4122800; 691261, 4123079; 691262, 4123097; 691263, 4123113; 691267, 4123155; 691273, 4123198; 691267, 4123238; 691248, 4123272; 691217, 4123291; 691200, 4123294; 691200, 4123500; 691110, 4123679; 691126, 4123677; 691149, 4123682; 691156, 4123694; 691166, 4123718; 691177, 4123739; 691191, 4123771; 691193, 4123793; 691200, 4123800; 691195, 4123810; 691201, 4123850; 691215, 4123892; 691220, 4123942; 691214, 4123980; 691192, 4124020; 691171, 4124049; 691150, 4124072; 691127, 4124089; 691099, 4124095; 691071, 4124095; 691055, 4124090; 690900, 4124400; 690559, 4124400; 690559, 4124402; 690569, 4124417; 690582, 4124427; 690582, 4124447; 690576, 4124466; 690563, 4124483; 690546, 4124493; 690525, 4124502; 690523, 4124502; 690523, 4124519; 690500, 4124524; 690475, 4124530; 690469, 4124538; 690445, 4124570; 690388, 4124590; 690353, 4124592; 690180, 4124650; 690127, 4124689; 690083, 4124695; 690025, 4124783; 690020, 4124854; 689996, 4124900; 689988, 4125006; 689952, 4125056; 689912, 4125095; 689856, 4125119; 689819, 4125184; 689788, 4125210; 689747, 4125229; 689700, 4125300; 689658, 4125595; 689665, 4125595; 689672, 4125603; 689645, 4125757; 689630, 4125793; 689600, 4126000; 689700, 4126200; 689600, 4126600; 689400, 4126600; 689275, 4126538; 689239, 4126581; 689188, 4126664; 689134, 4126678; 689121, 4126682; 689069, 4126728; 689067, 4126852; 689020, 4126961; 688990, 4126993; 688911, 4126978; 688903, 4126995; 688913, 4127006; 689100, 4127100; 689024, 4127195; 689025, 4127207; 688949, 4127292; 688931, 4127324; 688922, 4127322; 688854, 4127407; 688823, 4127454; 688780, 4127503; 688735, 4127581; 688723, 4127621; 688696, 4127650; 688684, 4128244; 688193, 4128235; 688100, 4128700; returning to 688300, 4129000;

(ii) Unit 23B: Merced County, California. From USGS 1:24,000 scale quadrangle Stevinson and San Luis Ranch. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 695400, 4125600; 695500, 4122000; 694900, 4122400; 694700, 4122700; 694500, 4122900; 694500, 4123100; 694100, 4123400; 693800, 4123500; 693800, 4123800; 693500, 4123900; 693500, 4124500; 693700, 4124700; 693800, 4125000; 693600, 4125200; 693400, 4125300; 693122, 4125670; 693100, 4125700; 693146, 4125746; 693200, 4125800; 693700, 4125900; 693700, 4127300; 693800, 4127300; 693900, 4127000; 694200, 4126900; 694600, 4126400; 694600, 4126200; 694700, 4126000; 695179, 4125726; returning to 695400, 4125600;

(iii) Unit 23C: Merced County, California. From USGS 1:24,000 scale quadrangle Arena, Stevinson, Turner Ranch, and San Luis Ranch. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 699300, 4126300; 699300, 4125400; 700100, 4125400; 700200, 4126000; 700600, 4125700; 701100, 4125300; 701100, 4124300; 700300, 4124300; 700300, 4123800; 700500, 4123800; 700600, 4123500; 701100, 4123400; 701200, 4123200; 701400, 4123100; 701600, 4122700; 701900, 4122500; 702600, 4122200; 702870, 4121705; 703200, 4121100; 703900, 4120500; 704600, 4119800; 704600, 4119800; 704700, 4119700; 698900, 4119600; 698800, 4119700; 698543, 4119957; 698558, 4119970; 698501, 4120012; 698504, 4120069; 698626, 4120197; 698662, 4120077; 698694, 4120113; 698668, 4121116; 698663, 4121510; 698594, 4121508; 698600, 4121600; 699900, 4121600; 700000, 4120400; 700200, 4120400; 700200, 4122700; 697000, 4122600; 696900, 4125100; 697700, 4125100; 697700, 4125300; 697600, 4125400; 697700, 4125600; 698000, 4125700; 698200, 4125800; 698300, 4126100; 698700, 4126500; 699500, 4126500; 699600, 4126300; returning to 699300, 4126300;

(iv) Unit 23D: Merced County, California. From USGS 1:24,000 scale quadrangle Arena and Turner Ranch. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 706700, 4122100; 706800, 4120900; 706700, 4120500; 706700, 4119700; 708100, 4119700; 708100, 4119600; 708000, 4119500; 707900, 4119200; 707900, 4119000; 708000, 4118900; 708300, 4118900; 708300, 4118100; 707900, 4118100; 707500, 4118500; 706500, 4118500; 706000, 4118900; 705600, 4119300; 705200, 4119700; 704800, 4120000; 704700, 4120100; 704700, 4120400; 705100, 4120400; 705100, 4120600; 704900, 4120700; 704900, 4120800; 705100, 4120800; 704900, 4121000; 705000, 4121100; 705100, 4121700; 705200, 4121700; 705300, 4122000; 705700, 4122100; 705700, 4122200; 705400, 4122300; 705300, 4122400; 705500, 4122600; 705400, 4122600; 705300, 4122500; 705200, 4122500; 705100, 4122500; 704900, 4122500; 704900, 4122700; 704800, 4122800; 704500, 4122800; 704300, 4122900; 704000, 4122800; 703900, 4122900; 703400, 4124400; 703300, 4124600; 701300, 4126500; 700100, 4127600; 700467, 4129067; 700500, 4129200; 700500, 4130600; 701000, 4130600; 701000, 4130100; 701100, 4129800; 701200, 4129800; 701100, 4130100; 701100, 4130600; 701700, 4130600; 701700, 4129200; 701800, 4129200; 702800, 4129200; 703000, 4128800; 703300, 4128800; 703900,4128800; 703900, 4129000; 704200, 4129000; 704200, 4128500; 703300,4128400; 703400, 4128300; 703400, 4127900; 703500,4127800; 703800, 4127500; 703700, 4127300; 703500, 4127300; 703400,4127100; 703400, 4126100; 703500, 4126100; 704400, 4126100; 704300, 4126000; 704400, 4125900; 704500, 4125300; 704500, 4124800; 705000, 4124800; 705000, 4125300; 705700, 4125300; 705700, 4124900; 706600, 4125000; 706700, 4123700; returning to 706700, 4122100;

(v) Unit 23E: Merced County, California. From USGS 1:24,000 scale quadrangle Sandy Mush and Turner Ranch. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 706700, 4122100; 711500, 4122200; 711500, 4121700; 711500, 4121200; 709900, 4121300; 709900, 4121900; 709800, 4121900; 709800, 4121800; 709700, 4121500; 709500, 4121500; 709300, 4121600; 708800, 4121400; 708700, 4121300; 706800, 4121300; returning to 706700, 4122100;

(vi) Unit 23F: Merced County, California. From USGS 1:24,000 scale quadrangle Sandy Mush and Turner Ranch. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 711200, 4120500; 711400, 4120400; 711500, 4120500; 711600, 4119600; 711900, 4119600; 711900,4119400; 712100, 4119300; 712300, 4119300; 712300, 4119200; 712600, 4119200; 712800, 4118800; 711600, 4118700; 711600, 4118500; 711400, 4118500;

711300, 4118400; 711100, 4118100; 709900, 4118100; 709900, 4118800; 709900, 4119000; 709700, 4119000; 709700, 4119600; 710300, 4119600; 710300, 4119900; 710700, 4119900; 710700, 4120000; 710600, 4120000; 710600, 4120100; 710700, 4120200; 710600, 4120300; 710700, 4120400; 710700, 4120500; 710900, 4120400; 711100, 4120400; returning to 711200, 4120500;

(vii) Unit 23G: Merced County, California. From USGS 1:24,000 scale quadrangle Sandy Mush. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 714600, 4115000; 713300, 4115000; 713100, 4115300; 713300, 4115300; 713800, 4115400; 713800, 4116600; 715400, 4116600; 715500, 4116500; 715500, 4115818; 714600, 4115800; returning to 714600, 4115000;

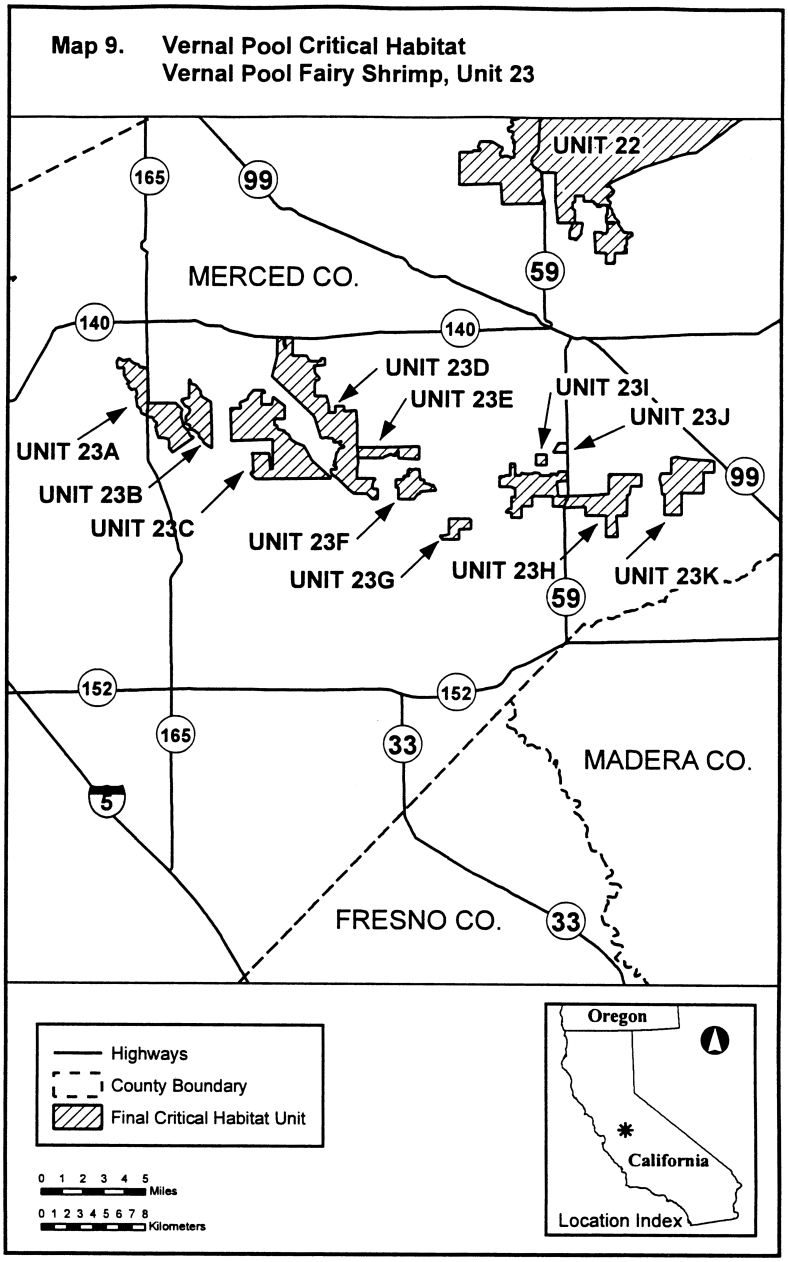
(viii) Unit 23H: Merced County, California. From USGS 1:24,000 scale quadrangle El Nido and Sandy Mush. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 718900, 4120900; 718900, 4120000; 719300, 4120000; 719400, 4120200; 719600, 4120100; 720200, 4120100; 720300, 4120200; 720700, 4120200; 720900, 4120000; 721500, 4120000; 721600, 4120100; 722000, 4120100; 722100, 4120000; 722200, 4120200; 722200, 4120300; 722900, 4120300; 722900, 4119600; 722100, 4119500; 722200, 4118400; 725400, 4118500; 725400, 4118578; 726100, 4118600; 726100, 4120100; 728600, 4120100; 728600, 4119200; 727800, 4119200; 727700, 4118600; 727600, 4118500; 727500, 4118500; 727500, 4118400; 727500, 4116900; 726800, 4116900; 726700, 4116900; 726800, 4115300; 725900, 4115300; 725900, 4116900; 724300, 4116900; 724300, 4117600; 722694, 4117506; 722600, 4117600; 721800, 4117600; 721800, 4118400; 720200, 4118400; 720200, 4117600; 719400, 4117600; 719400, 4116700; 718600, 4116700; 718600, 4117100; 718200, 4117100; 718200, 4117200; 718300, 4117300; 718400, 4117400; 718600, 4117400; 718600, 4117500; 718600, 4118291; 718900, 4118300; 718900, 4118900; 718800, 4119000; 718700, 4119000; 718600, 4119100; 717700, 4119100; 717700, 4119900; 718100, 4119900; 718100, 4119950; 718100, 4120000; 718500, 4120000; 718500, 4120900; returning to 718900, 4120900;

(ix) Unit 23I: Merced County, California. From USGS 1:24,000 scale quadrangle Sandy Mush. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 721300, 4120800; 720500, 4120800; 720500, 4121600; 721300, 4121600; 721300, 4121200; returning to 721300, 4120800;

(x) Unit 23J: Merced County, California. From USGS 1:24,000 scale quadrangle El Nido. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 722900, 4121800; 721800, 4121800; 722200, 4122500; 722900, 4122500; returning to 722900, 4121800;

(xi) Unit 23K: Merced County, California. From USGS 1:24,000 scale quadrangle Plainsburg and El Nido. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 731700, 4117000; 730400, 4117000; 730400, 4118600; 730200, 4118600; 730100, 4119300; 730000, 4119700; 730000, 4119900; 730100, 4120200; 730900, 4120200; 730900, 4121400; 731300, 4121500; 731800, 4121400; 732700, 4121300; 734000, 4121200; 734200, 4121100; 734200, 4120300; 733400, 4120300; 733400, 4118700; 731700, 4118700; returning to 731700, 4117000.

(xii) NOTE: Unit 23 (Map 9) follows:



(30) Unit 24: Madera County, California.

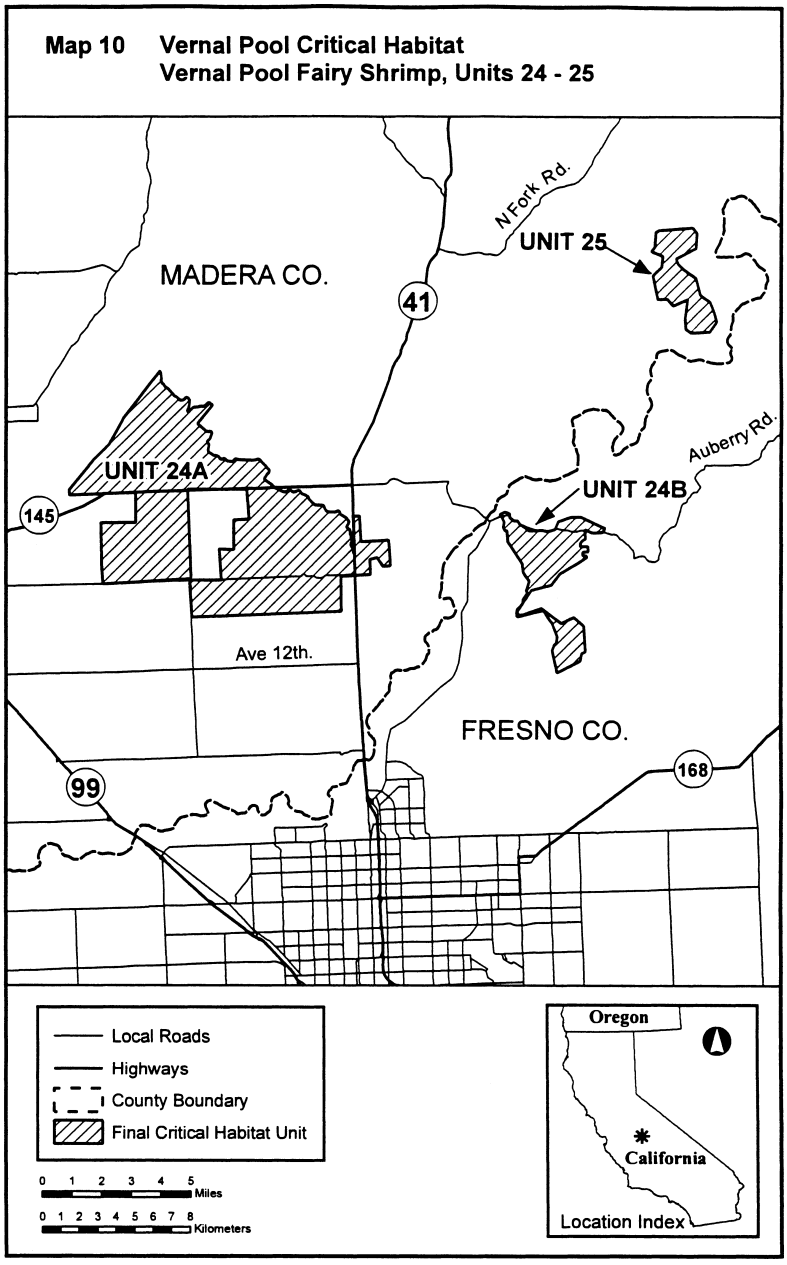
(i) Unit 24A: Madera County, California. From USGS 1:24,000 scale quadrangle Little Table Mountain, Daulton, Lanes Bridge, and Gregg. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 775948, 4105456; 775999, 4105450; 776120, 4105477; 776212, 4105561; 776272, 4105591; 776338, 4105583; 776404,

4105519; 776449, 4105460; 776460, 4105422; 776461, 4105333; 776454, 4105310; 776453, 4105259; 776440, 4105190; 776403, 4105067; 776342, 4104912; 776338, 4104874; 776344, 4104834; 776389, 4104794; 776390, 4104794; 776511, 4104930; 776669, 4105060; 776888, 4105057; 777034, 4105112; 777089, 4105117; 777174, 4105104; 777227, 4105114; 777322, 4105160; 777452, 4105307; 777505, 4105311; 777525, 4105303; 777569, 4105287; 777611, 4105253; 777630, 4105233; 777676, 4105204; 777716, 4105178; 777254, 4104608; 776860, 4104161; 777386, 4103739; 777417, 4103722; 777478, 4103724; 777556, 4103747; 777592, 4103745; 777628, 4103729; 777649, 4103704; 777655, 4103686; 777652, 4103610; 777595, 4103484; 777574, 4103361; 777542, 4103322; 777483, 4103277; 777424, 4103214; 777425, 4103166; 777452, 4103116; 777471, 4103096; 777503, 4103036; 777500, 4102977; 777455, 4102796; 777458, 4102704; 777472, 4102666; 777490, 4102639; 777701, 4102491; 777761, 4102460; 777902, 4102427; 778037, 4102384; 778066, 4102347; 778094, 4102274; 778118, 4102255; 778167, 4102239; 778212, 4102243; 778340, 4102295; 778379, 4102282; 778505, 4102141; 778562, 4102125; 778633, 4102132; 778720, 4102092; 778766, 4102096; 778798, 4102120; 778918, 4102254; 778976, 4102268; 778997, 4102264; 779059, 4102223; 779095, 4102209; 779762, 4102193; 779897, 4102172; 780079, 4102219; 780132, 4102236; 780185, 4102235; 780236, 4102217; 780360, 4102089; 780617, 4101823; 780666, 4101774; 780673, 4101764; 780682, 4101751; 780688, 4101743; 780713, 4101714; 780759, 4101634; 780761, 4101576; 780738, 4101514; 780687, 4101446; 780591, 4101336; 780514, 4101212; 780513, 4101163; 780527, 4101126; 780569, 4101089; 780939, 4100827; 781071, 4100686; 781076, 4100683; 781136, 4100645; 781561, 4100454; 781645, 4100459; 781800, 4100538; 781863, 4100561; 781925, 4100540; 781944, 4100528; 782075, 4100451; 782128, 4100455; 782347, 4100528; 782403, 4100533; 782429, 4100521; 782457, 4100499; 782535, 4100382; 782587, 4100338; 782809, 4100244; 782840, 4100222; 782884, 4100193; 782929, 4100075; 783072, 4099907; 783203, 4099779; 783268, 4099756; 783377, 4099744; 783662, 4099749; 783703, 4099735; 783743, 4099676; 783751, 4099641; 783755, 4099621; 783767, 4099609; 783768, 4099584; 783781, 4099548; 783795, 4099504; 783827, 4099471; 783858, 4099445; 783890, 4099424; 783916, 4099399; 783946, 4099382; 784056, 4099380; 784184, 4099372; 784246, 4099369; 784263, 4099375; 784300, 4099370; 784342, 4099377; 784378, 4099391; 784414, 4099405; 784438, 4099417; 784462, 4099430; 784493, 4099442; 784516, 4099445; 784536, 4099439; 784561, 4099422; 784574, 4099398; 784593, 4099356; 784601, 4099324; 784620, 4099288; 784627, 4099259; 784651, 4099241; 784652, 4099240; 784671, 4099217; 784701, 4099206; 784733, 4099188; 784758, 4099176; 784776, 4099164; 784801, 4099153; 784820, 4099143; 784845, 4099124; 784876, 4099102; 784907, 4099085; 784944, 4099056; 784970, 4099032; 784995, 4099006; 785020, 4098984; 785040, 4098960; 785046, 4098935; 785059, 4098917; 785060, 4098888; 785073, 4098858; 785074, 4098834; 785068, 4098801; 785061, 4098785; 785052, 4098764; 785041, 4098739; 785024, 4098708; 785006, 4098676; 784995, 4098640; 784978, 4098615; 784967, 4098591; 784960, 4098572; 784968, 4098548; 784993, 4098525; 785024, 4098508; 785062, 4098476; 785086, 4098473; 785117, 4098442; 785130, 4098431; 785143, 4098395; 785152, 4098345; 785159, 4098279; 785168, 4098231; 785176, 4098163; 785184, 4098120; 785184, 4098108; 785204, 4098054; 785220, 4097988; 785238, 4097931; 785246, 4097885; 785247, 4097853; 785237, 4097805; 785216, 4097736; 785199, 4097682; 785188, 4097625; 785182, 4097596; 785190, 4097576; 785209, 4097535; 785235, 4097499; 785266, 4097451; 785286, 4097422; 785312, 4097385; 785325, 4097349; 785320, 4097300; 785329, 4097245; 785330, 4097202; 785337, 4097165; 785350, 4097153; 785362, 4097142; 785387, 4097137; 785386, 4097154; 785380, 4097178; 785336, 4098764; 785334, 4098821; 785334, 4098823; 785325, 4099157; 785658, 4099178; 785746, 4097781; 787243, 4097875; 787331, 4096478; 786932, 4096452; 786601, 4096933; 786208, 4096807; 786246, 4096208; 786258, 4096009; 785453, 4095958; 784661, 4095908; 784661, 4095908; 784662, 4095507; 784662, 4094305; 784681, 4094005; 780582, 4093847; 779783, 4093796; 776583, 4093695; 776463, 4095591; 776657, 4095704; 778160, 4095698; 778053, 4097395; 778858, 4097346; 778857, 4098949; 779656, 4099000; 779555, 4100597; 776348, 4100594; 776551, 4095797; 776451, 4095791; 773656, 4095615; 771760, 4095495; 771697, 4096493; 771652, 4098795; 773554, 4098815; 773553, 4100418; 769954, 4100291; 769935, 4100590; 771238, 4102176; 772086, 4103031; 772447, 4103655; 772896, 4104485; 774373, 4106482; 774835, 4107052; 774846, 4107045; 774850, 4107042; 774860, 4107038; 774885, 4106988; 774910, 4106826; 774924, 4106643; 774919, 4106604; 774912, 4106536; 774917, 4106473; 774975, 4106381; 774999, 4106361; 775134, 4106205; 775285, 4106081; 775406, 4105942; 775604, 4105742; 775620, 4105713; 775682, 4105659; 775765, 4105623; returning to 775948, 4105456;

(ii) Unit 24B: Fresno County, California. From USGS 1:24,000 scale quadrangle Friant. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 793782, 4099090; 793994, 4098902; 794194, 4098915; 794306, 4098722; 794618, 4098541; 794831, 4098354; 795529, 4098398; 795835, 4098317; 796228, 4098442; 796403, 4098854; 797089, 4099098; 797289, 4099111; 797588, 4099129; 798930, 4098512; 798743, 4098300; 798244, 4098269; 797832, 4098443; 797863, 4097944; 797670, 4097832; 797577, 4097725; 797583, 4097626; 797589, 4097526; 797989, 4097551; 798007, 4097252; 797708, 4097233; 797721, 4097033; 797920, 4097046; 797926, 4096946; 797446, 4096615; 796479, 4096053; 796018, 4095422; 794932, 4095153; 794203, 4094004; 794215, 4093805; 794515, 4093824; 795494, 4094186; 796549, 4093351; 797229, 4093694; 797760, 4093226; 797848, 4091829; 797655, 4091716; 797580, 4091310; 796372, 4090700; 796318, 4090707; 796265, 4090961; 796301, 4090929; 796262, 4090975; 796072, 4091876; 796159, 4092137; 796200, 4092206; 796282, 4092261; 796330, 4092663; 796160, 4093099; 796056, 4093364; 795805, 4093706; 795727, 4093853; 795710, 4093880; 795603, 4094060; 795291, 4093982; 794825, 4093866; 794320, 4093746; 794171, 4093710; 794163, 4093773; 794145, 4093931; 794183, 4094110; 794269, 4094203; 794321, 4094260; 794475, 4094454; 794503, 4094666; 794724, 4094985; 794665, 4095138; 794826, 4095644; 794644, 4095919; 794496, 4096144; 794468, 4096427; 794455, 4096564; 793663, 4097789; 793626, 4098378; 793513, 4098371; 793423, 4098551; 793475, 4098842; 793327, 4099109; 793333, 4099147; 793270, 4099175; 793237, 4099239; 793463, 4099370; 793563, 4099377; 793769, 4099289; returning to 793782, 4099090;

(31) Unit 25: Madera County, California. From USGS 1:24,000 scale quadrangle Millerton Lake East. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 804045, 4111166; 804569, 4110798; 804807, 4110212; 804938, 4109719; 804571, 4109194; 803572, 4109131; 803260, 4109312; 803222, 4109911; 803359, 4110922; 802579, 4110572; 802254, 4110952; 801755, 4110921; 801473, 4112206; 801947, 4112637; 802009, 4113242; 801391, 4113504; 801578, 4113716; 801627, 4114521; 801820, 4114634; 803618, 4114748; 803836, 4114461; 803787, 4113656; 802720, 4113087; 802839, 4112794; 803158, 4112513; 803788, 4112052; returning to 804045, 4111166;

(32) NOTE: Units 24–25 (Map 10) follow:



(33) Unit 26: Tulare and Kings Counties, California.

(i) Unit 26A: Tulare and Kings Counties, California. From USGS 1:24,000 scale quadrangle Monson, Traver, Burris Park, and Remnoy. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 828797, 4041134; 828810, 4040935; 829509, 4040978;

829634, 4040585; 829709, 4039386; 830449, 4039621; 830453, 4039463; 830420, 4039230; 829721, 4039186; 829521, 4039174; 829509, 4039374; 828304, 4039399; 828279, 4039798; 827580, 4039755; 827605, 4039355; 827205, 4039330; 827280, 4038132; 826381, 4038076; 826400, 4037776; 825601, 4037726; 825582, 4038026; 824877, 4038082; 824895, 4037782; 822892, 4037758; 822929, 4037159; 821031, 4037041; 821075, 4036342; 820575, 4036310; 820606, 4035811; 820207, 4035786; 820157, 4034981; 820200, 4034282; 818203, 4034157; 818222, 4033858; 817135, 4033589; 816842, 4033471; 816667, 4033059; 816274, 4032935; 816181, 4032934; 814570, 4032928; 813902, 4032386; 813727, 4031974; 813565, 4031362; 813284, 4031044; 812996, 4030826; 812891, 4032523; 813790, 4032579; 814252, 4033209; 814539, 4033428; 814851, 4034164; 814889, 4034252; 815581, 4034395; 816256, 4034838; 817560, 4034819; 816992, 4035886; 818490, 4035980; 819364, 4036436; 819770, 4036360; 820900, 4037534; 821693, 4037683; 822542, 4038539; 824646, 4038569; 824846, 4038582; 826344, 4038675; 826313, 4039175; 825507, 4039225; 825445, 4040223; 827043, 4040323; 827100, 4041028; returning to 828797, 4041134;

(ii) Unit 26B: Tulare County, California. From USGS 1:24,000 scale quadrangle Monson. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 831257, 4040285; 831281, 4039895; 831228, 4039894; 831226, 4040265; 830457, 4040256; 830452, 4040335; returning to 831257, 4040285;

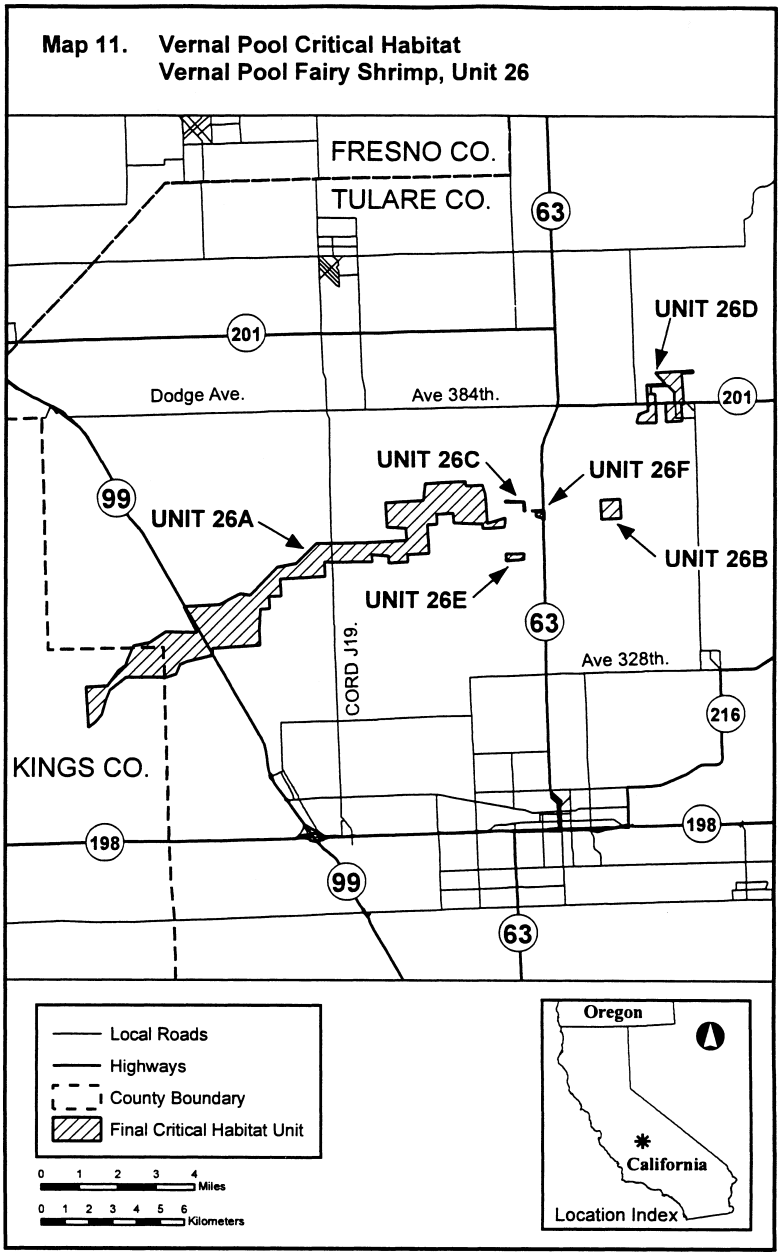
(iii) Unit 26C: Tulare County, California. From USGS 1:24,000 scale quadrangle Monson. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 835309, 4039635; 834510, 4039585; 834460, 4040384; 835259, 4040434; returning to 835309, 4039635;

(iv) Unit 26D: Tulare County, California. From USGS 1:24,000 scale quadrangle Ivanhoe. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 837863, 4043705; 837178, 4043663; 837165, 4044455; 837527, 4044471; 837510, 4044925; 837253, 4045186; 836546, 4045165; 836550, 4044829; 836726, 4044828; 836732, 4044453; 836753, 4044453; 836777, 4043638; 836764, 4043637; 836765, 4043628; 835983, 4043614; 835959, 4043687; 836040, 4043993; 836433, 4044117; 836365, 4045216; 837164, 4045266; 836733, 4045741; 838331, 4045841; 838338, 4045740; 837838, 4045710; 837919, 4044411; 837819, 4044405; returning to 837863, 4043705;

(v) Unit 26E: Tulare County, California. From USGS 1:24,000 scale quadrangle Monson. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 831258, 4037878; 830508, 4037831; 830507, 4037837; 830510, 4037837; 830495, 4038113; 830867, 4038116; 831249, 4038123; returning to 831258, 4037878;

(vi) Unit 26F: Tulare County, California. From USGS 1:24,000 scale quadrangle Monson. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 832081, 4039935; 832106, 4039535; 832038, 4039531; 831991, 4039595; 831752, 4039679; 831748, 4039853; 832035, 4039864; 832031, 4039913; 831542, 4039901; 832081, 4039935; returning to 832081, 4039935;

(vii) NOTE: Unit 26 (Map 11) follows:



(34) Unit 27: Tulare County, California.

(i) Unit 27A: Tulare County, California. From USGS 1:24,000 scale quadrangle Taylor Weir, Corcoran, and Alpaugh. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 816702, 4000178; 816908, 4000090; 818306, 4000177; 818405, 3998578; 819903, 3998671; 820002, 3997073; 818403, 3996974; 818502,

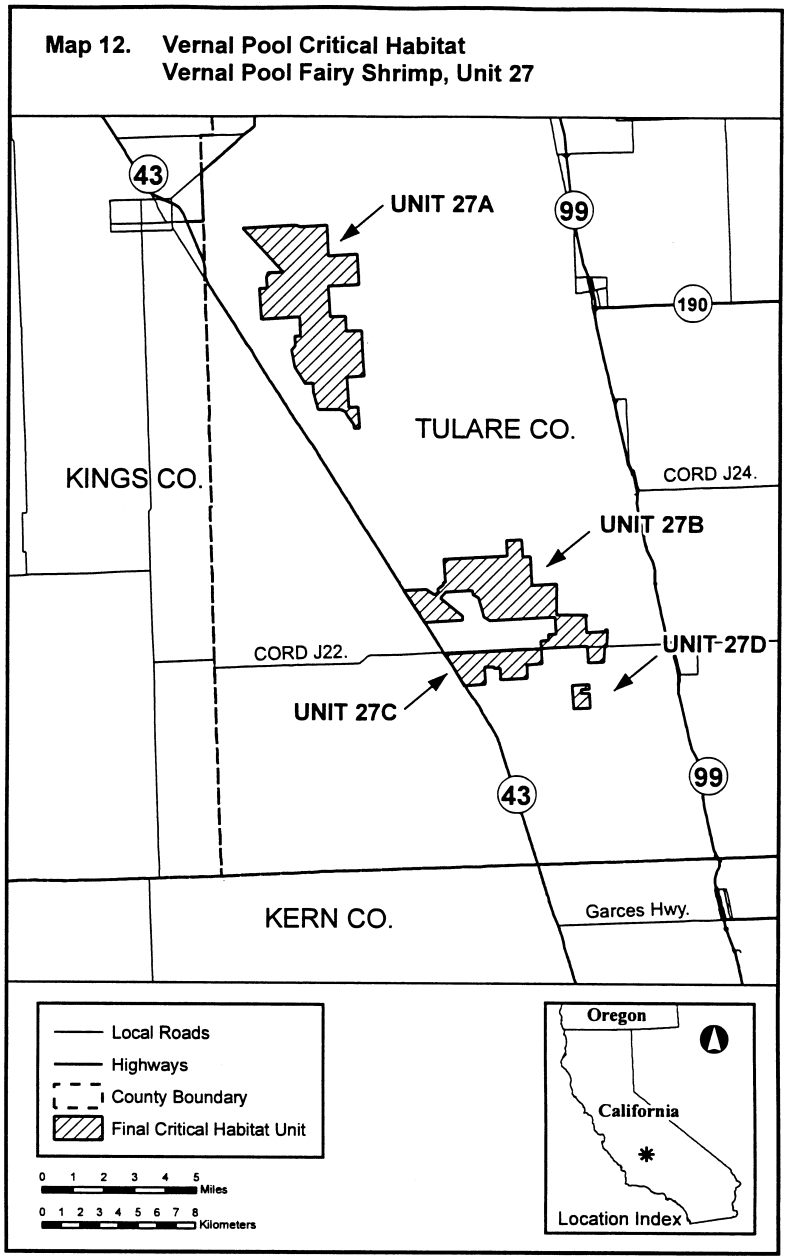
3995377; 819301, 3995426; 819351, 3994627; 820149, 3994676; 820199, 3993877; 820248, 3993078; 820297, 3992279; 819399, 3992224; 819497, 3990626; 819996, 3990656; 820064, 3989558; 819765, 3989539; 819752, 3989739; 819422, 3990220; 819310, 3990414; 819104, 3990501; 817899, 3990527; 817644, 3991413; 817613, 3991913; 817214, 3991888; 816659, 3992756; 816504, 3993649; 816691, 3993861; 816660, 3994360; 816960, 3994379; 816910, 3995178; 816898, 3995378; 814901, 3995254; 814802, 3996852; 815201, 3996877; 815164, 3997476; 815252, 3997682; 816051, 3997731; 813905, 4000005; returning to 816702, 4000178.

(ii) Unit 27B: Tulare County, California. From USGS 1:24,000 scale quadrangle Pixley and Alpaugh. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 829592, 3978113; 829568, 3978513; 829967, 3978537; 829949, 3978837; 830348, 3978862; 830293, 3979761; 826897, 3979551; 826585, 3979733; 826454, 3980226; 826324, 3980719; 826012, 3980901; 825999, 3981101; 824601, 3981014; 824320, 3980697; 825480, 3979765; 825492, 3979565; 825392, 3979559; 823495, 3979442; 822391, 3981079; 823590, 3981153; 824008, 3980878; 824201, 3980990; 824189, 3981190; 824476, 3981408; 824470, 3981508; 824570, 3981514; 824496, 3982713; 827793, 3982915; 827743, 3983715; 828543, 3983764; 828598, 3982865; 828997, 3982890; 829090, 3981391; 829090, 3981391; 830388, 3981471; 830387, 3979867; 831991, 3979865; 831897, 3979759; 831947, 3978960; 832946, 3979021; 832939, 3979121; 833039, 3979128; 832995, 3978222; 832895, 3978216; 832845, 3977419; 832047, 3977387; 831990, 3978261; 829992, 3978138; returning to 829592, 3978113;

(iii) Unit 27C: Tulare County, California. From USGS 1:24,000 scale quadrangle Pixley and Alpaugh. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 829592, 3978113; 829641, 3977314; 828842, 3977265; 828848, 3977165; 828848, 3977165; 828885, 3976566; 827487, 3976480; 827450, 3977079; 827150, 3977060; 827144, 3977160; 826645, 3977130; 826700, 3976231; 825601, 3976163; 824598, 3977806; returning to 829592, 3978113;

(iv) Unit 27D: Tulare County, California. From USGS 1:24,000 scale quadrangle Delano West. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 831681, 3975979; 831682, 3975780; 832114, 3975799; 832147, 3975004; 831304, 3974962; 831290, 3974961; 831213, 3976207; 832099, 3976262; 832108, 3976000; returning to 831681, 3975979;

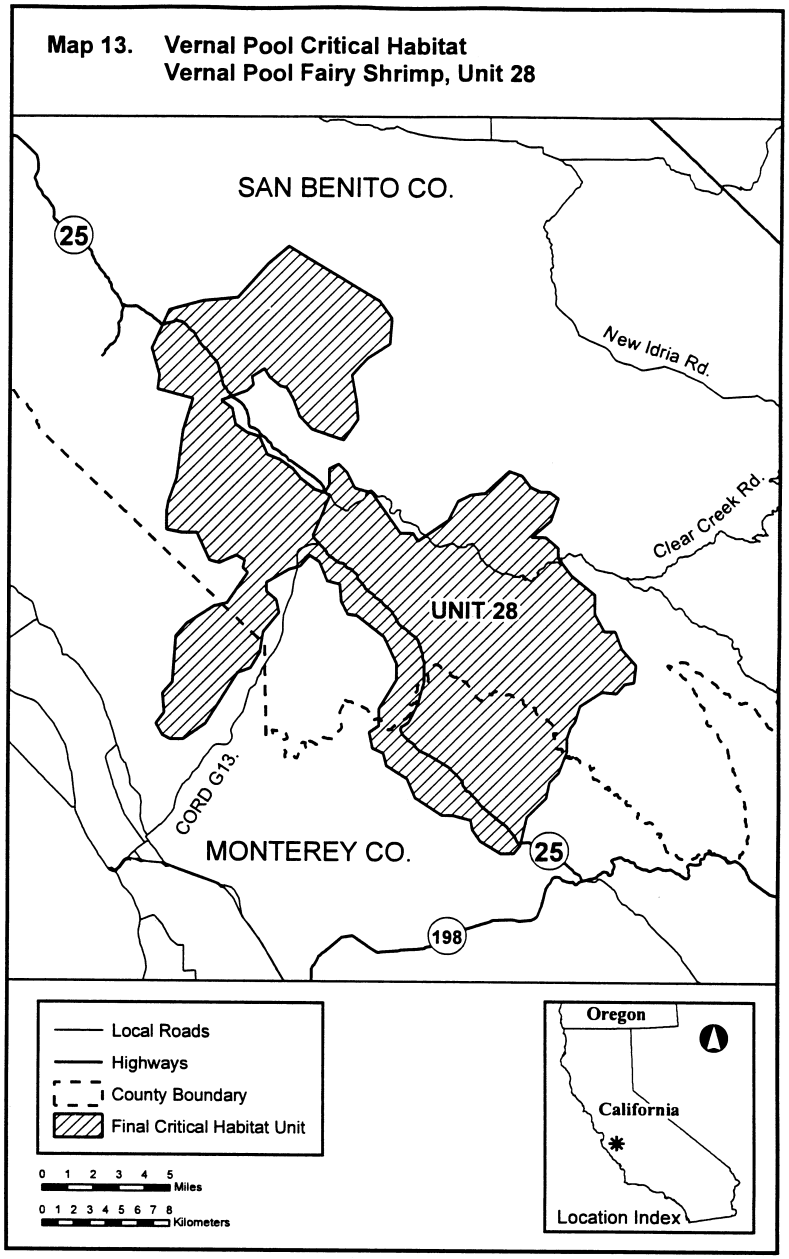
(v) NOTE: Unit 27 (Map 12) follows:



(35) Unit 28: San Benito and Monterey Counties, California. From USGS 1:24,000 scale quadrangle Hernandez Reservoir, Rock Springs Peak, Topo Peak, Hepsedam Peak, Lonoak, Pinalito Canyon, Monarch Peak, and Nattrass Valley. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 682300, 4039700; 681300, 4038600; 681600,

4037000; 681700, 4035800; 680800, 4034500; 678800, 4035200; 678000, 4036000; 677600, 4037100; 677200, 4037800; 67680, 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; 694857, 4014888; 694400, 4013700; 693800, 4013100; 693600, 4012100; 692400, 4010900; 692000, 4009100; 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, 4017044; 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; 675702, 4021862; 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; 673205, 4024226; 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; returning to 682300, 4039700.

(36) NOTE: Unit 28 (Map 13) follows:



(37) Unit 29: Monterey County, California.

(i) Unit 29A: Monterey County, California. From USGS 1:24,000 scale quadrangle Williams Hill and Jolon. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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, 3975567; 674900, 3975500; 674700, 3975500; 674640, 3975981; 674639, 3976224; 674609, 3976226; 674600, 3976300; 673444, 3976300; 673418, 3976654; 673400, 3976654; 673400, 3976700; 673032, 3976700; 673029, 3977031; 673830, 3977043; 673838, 3977861; 673000, 3977858; 673000, 3977900; 672261, 3977869; 672201, 3978658; 670585, 3978648; 670610, 3977800; 670600, 3977800; 670600, 3977628; 670210, 3977909; 669793, 3978209; 669403, 3978493; 669204, 3978638; 669009, 3978794; 668691, 3979047; 668676, 3979059; 668631, 3979094; 668575, 3979139; 668542, 3979154; 668427, 3979205; 668355, 3979245; 668300, 3979300; 667137, 3980172; 668155, 3980187; 668138, 3980992; 667738, 3980995; 667723, 3981807; 667320, 3981800; 667314, 3982100; 668000, 3982100; returning to 668500, 3981900;

(ii) Unit 29B: Monterey County, California. From USGS 1:24,000 scale quadrangle Valleton, Wunpost, San Miguel. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 706300, 3975100; 706500, 3974400; 706400, 3971900; 706600, 3970800; 707000, 3970100; 707000, 3969400; 706800, 3969200; 706800, 3968200; 706600, 3967499; 705500, 3965500; 705400, 3965500; 705290, 3970469; 706068, 3970480; 706043, 3972930; 705235, 3972918; 705200, 3974500; 705155, 3974500; 705155, 3974504; 704931, 3974500; 704000, 3974500; 703700, 3973800; 703700, 3973400; 703229, 3972552; 703170, 3972480; 702900, 3972300; 702600, 3972000; 702500, 3971900; 701931, 3971236; 701923, 3971236; 701885, 3971200; 701600, 3971200; 701300, 3971000; 700800, 3971000; 700000, 3971000; 700000, 3970400; 699000, 3970410; 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; returning to 706300, 3975100;

(iii) Unit 29C: San Luis Obispo County, California. From USGS 1:24,000 scale quadrangle Estrella, Paso Robles, Cholame Hills, Ranchito Canyon, and Creston. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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; 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; 724657, 3963557; 725100, 3964000; 725100, 3963563; 725100, 3963300; returning to 725000, 3962100;

(iv) Unit 29D: San Luis Obispo and Monterey Counties, California. From USGS 1:24,000 scale quadrangle Bradley. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 695400, 3963500; 695700, 3963400; 695755, 3963400; 695761, 3963087; 695592, 3963031; 695500, 3963000; 695500, 3962966; 695470, 3962965; 695500, 3961632; 695500, 3961400; 694300, 3961400; 694300, 3961200; 694200, 3961400; 694800, 3961800; 694900, 3962400; 694700, 3962800; 694730, 3963011; 694800, 3963500; 695400, 3963500;

(v) Unit 29E: Monterey and San Luis Obispo County, NIT_NUM = 20D California. From USGS 1:24,000 scale quadrangle San Miguel. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 707500, 3961300; 706900, 3961300; 706900, 3961400; 706793, 3961480; 706792, 3961534; 706809, 3962857; 706650, 3962895; 706543, 3962948; 706490, 3963003; 706410, 3963007; 706288, 3963052; 706477, 3963218; 706800, 3963500; 707600, 3963500; 707563, 3963241; 707500, 3962800; 707900, 3962500; 708100, 3962000; returning to 707500, 3961300;

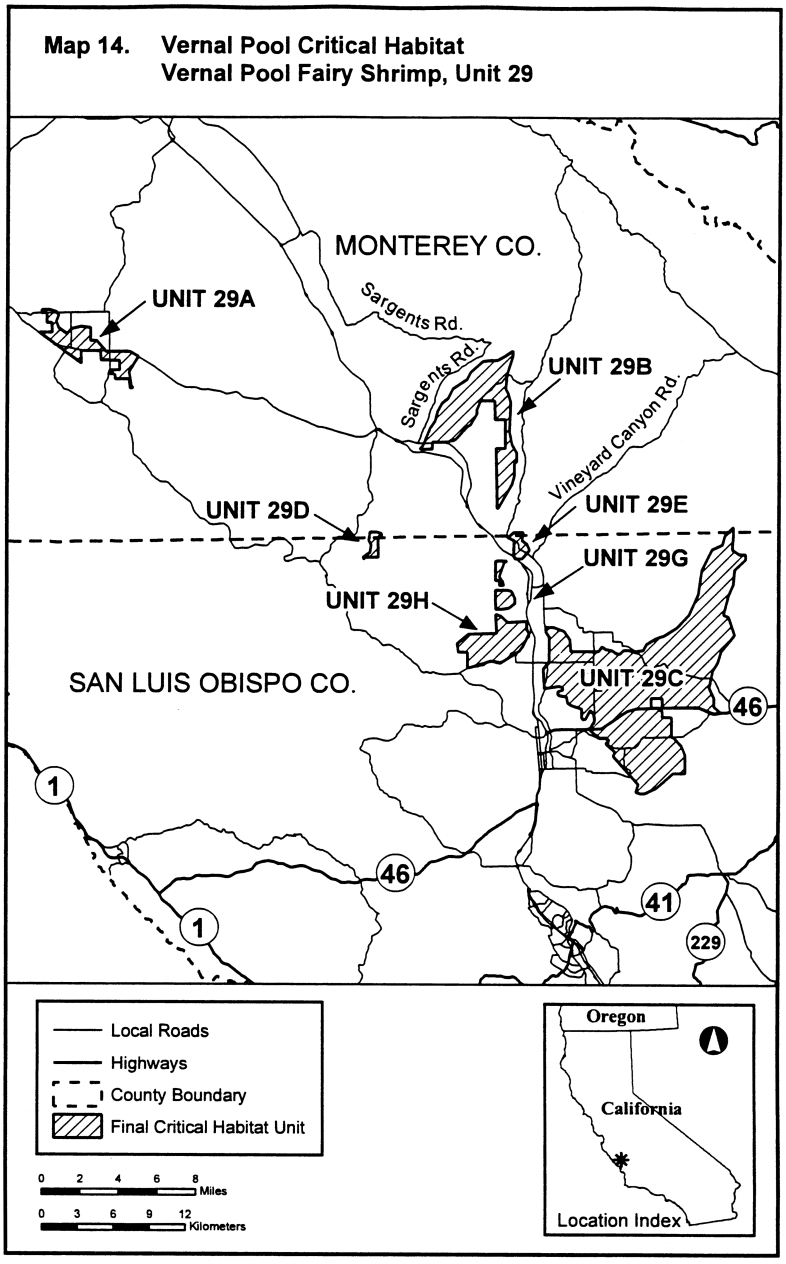
(vi) Unit 29F: San Luis Obispo County, California. From USGS 1:24,000 scale quadrangle San Miguel. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 705600, 3959800; 705900, 3959400; 705949, 3959103; 705635, 3959098; 705626, 3959502; 705300, 3959498; 705300, 3961100; 705464, 3961118; 706200, 3961125; 706200, 3961100; 706000, 3961000; 705600, 3959800;

(vii) Unit 29G: San Luis Obispo County, California. From USGS 1:24,000 scale quadrangle San Miguel and Paso Robles. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 705700, 3957100; 705311, 3957100; 705300, 3957657; 705300, 3958689; 706287, 3958704; 706600, 3958600; 706900, 3958000; 706900, 3957600; 706400, 3957200; returning to 705700, 3957100;

(viii) Unit 29H: San Luis Obispo, California. From USGS 1:24,000 scale quadrangle Paso Robles and Adelaida. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 705800, 3956500; 706300, 3956000; 707900, 3956100; 707900, 3955400; 708100, 3955100; 707600, 3954000; 707300, 3953600; 705700, 3952600; 705000, 3952800; 703200, 3952200; 703000, 3952200; 703000, 3953500; 702200, 3953500; 702113, 3954196; 703041, 3955028; 705352, 3955079; 705351, 3955100; 705400,

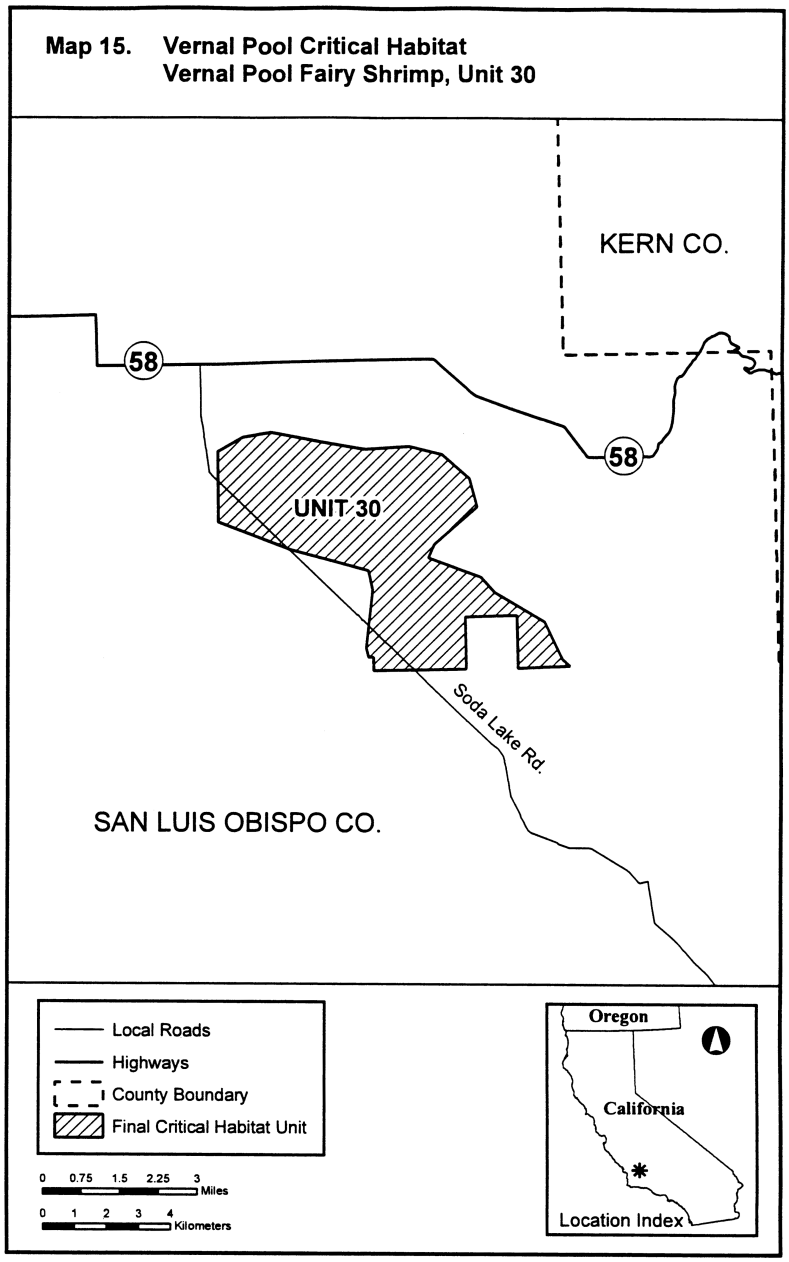
3955100; 705328, 3956248; 705319, 3956700; 705400, 3956700; returning to 705800, 3956500;

(ix) NOTE: Unit 29 (Map 14) follows:



(38) Unit 30: San Luis Obispo County, California. From USGS 1:24,000 scale quadrangle Simmler. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 774375, 3914002; 777312, 3913479; 778710, 3913564; 779726, 3913325; 780573, 3912575; 780827, 3911688; 779496, 3910506; 779321, 3910094; 780960, 3909492; 781390, 3909017; 782948, 3908110; 783520, 3906942; 783765, 3906725; 783760, 3906724; 782946, 3906690; 782936, 3906690; 782156, 3906654; 782132, 3906653; 782082, 3908301; 780768, 3908263; 780485, 3908255; 780490, 3908031; 780522, 3906619; 779393, 3906593; 777627, 3906558; 777613, 3906978; 777456, 3906974; 777388, 3907272; 777578, 3909087; 777442, 3909680; 774998, 3910333; 772742, 3911198; 772708, 3913400; 773483, 3913848; returning to 774375, 3914002;

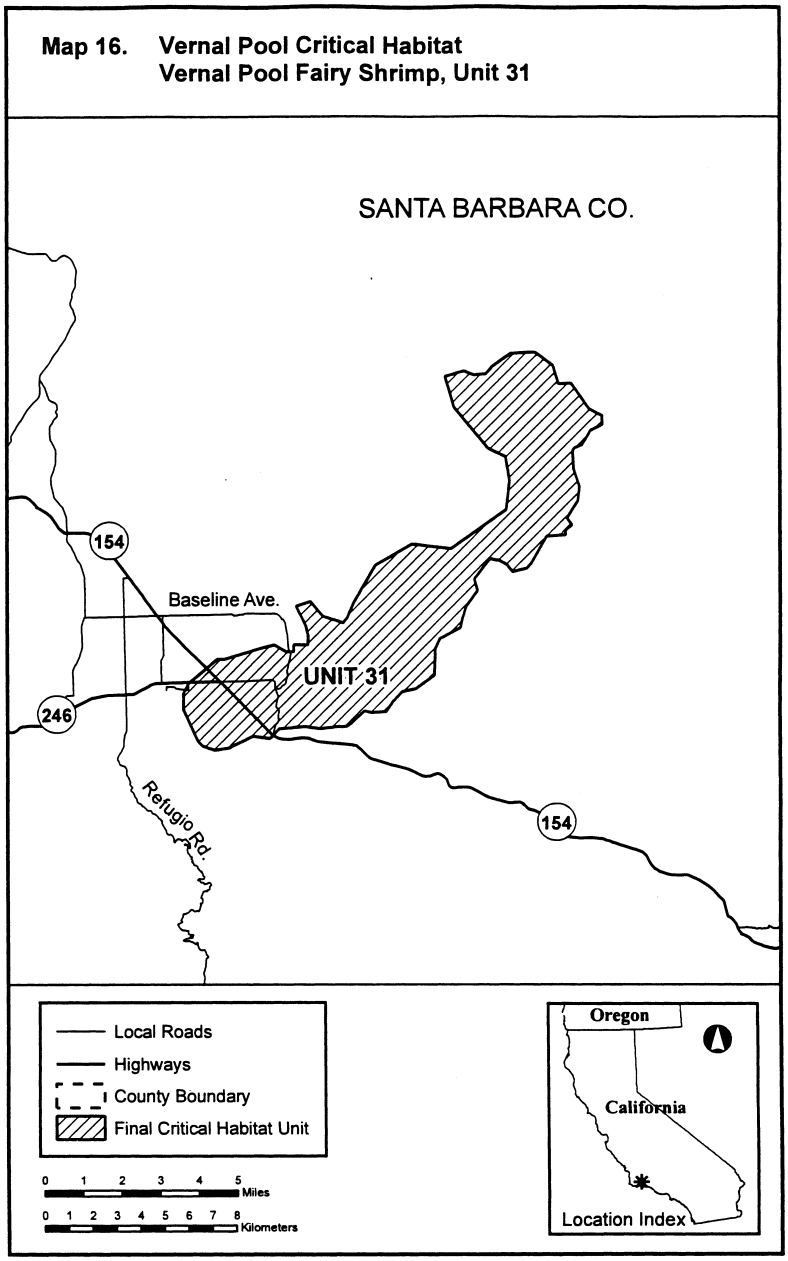
(39) NOTE: Unit 30 (Map 15) follows:



(40) Unit 31: Santa Barbara County, California. From USGS 1:24,000 scale quadrangle Figueroa Mtn., Los Olivos, Lake Cachuma, and Santa Ynez. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 775060, 3831898; 774653, 3831857; 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; 771157, 3834982; 772300, 3835300; 772800, 3835000; 773100, 3835000; 773100, 3835300; 773700, 3835300; 773700, 3835700; 773600, 3836100; 773200, 3836900; 773800, 3837100; 774300, 3836500; 774928, 3836289; 774935, 3836124; 775060, 3831898; UTM NAD83 Zone *11N:* 225515, 3836830; 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; 235500, 3843000; 235200, 3842900; 235100, 3842800; 235100, 3842000; 235300, 3841300; 235200, 3840700; 234700, 3840000; 234900, 3839700; 234600, 3839500; 234600, 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; 224752, 3831904; 224835, 3834499; 224871, 3835728; 224904, 3836287; 225100, 3836200; 225372, 3836544; 225515, 3836830;

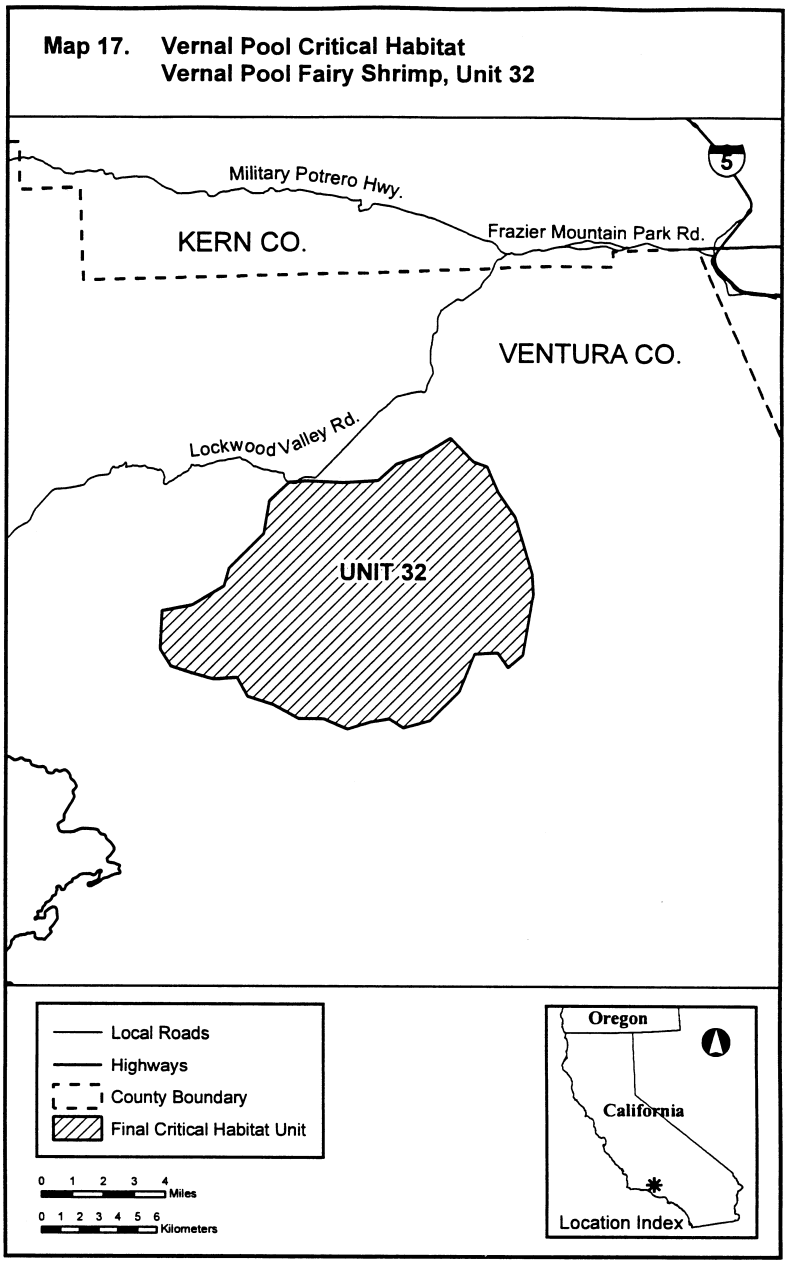
(41) NOTE: Unit 31 (Map 16) follows:



(42) Unit 32: Ventura County, California. From USGS 1:24,000 scale quadrangle Alamo Mountain, Lockwood Valley, San Guillermo, Topatopa Mountains, Lion Canyon. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 864689, 3849170; 865272, 3847801; 866149, 3846550; 867028, 3843593; 867093, 3842494; 867037, 3842150; 866579, 3839353; 865815,

3838706; 865267, 3839476; 864068, 3839404; 863282, 3837452; 861766, 3835957; 860385, 3835574; 859656, 3836032; 858662, 3835872; 857481, 3835501; 856246, 3836030; 854941, 3836052; 853594, 3836774; 852265, 3837196; 851706, 3838166; 850507, 3838094; 849284, 3838422; 848261, 3838762; 847708, 3839632; 847788, 3841642; 849375, 3841937; 851020, 3842938; 851266, 3843856; 853063, 3845668; 853362, 3847390; 854407, 3848355; 855307, 3848409; 857217, 3848323; 859016, 3848430; 859968, 3849289; 861343, 3849773; 862794, 3850662; 863971, 3849428; returning to 864689, 3849170;

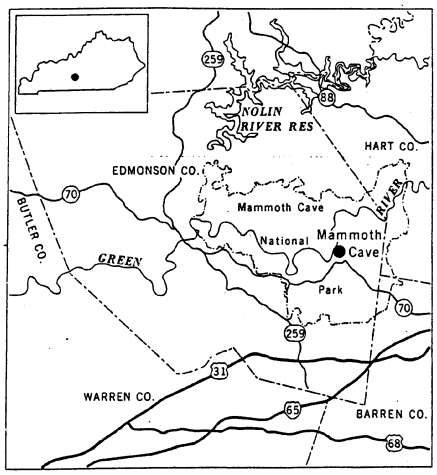
(43) NOTE: Unit 32 (Map 17) follows:



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:



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 Alameda, Amador, Butte, Colusa, Fresno, Kings, Madera, Mariposa, Merced, Sacramento, Shasta, Solano, Stanislaus, Tehama, Tulare, Yolo, and Yuba counties, California, on the map below.

(2) The primary constituent elements of critical habitat for vernal pool tadpole shrimp (*Lepidurus packardi*) are the habitat components that provide:

(i) Topographic features characterized by mounds and swales and depressions within a matrix of surrounding uplands that result in complexes of continuously, or intermittently, flowing surface water in the swales connecting the pools described below in paragraph (2)(ii), providing for dispersal and promoting hydroperiods of adequate length in the pools;

(ii) Depressional features including isolated vernal pools with underlying restrictive soil layers that become inundated during winter rains and that continuously hold water for a minimum of 41 days, in all but the driest years; thereby providing adequate water for incubation, maturation, and reproduction. As these features are inundated on a seasonal basis, they do not promote the development of obligate wetland vegetation habitats typical of permanently flooded emergent wetlands;

(iii) Sources of food, expected to be detritus occurring in the pools, contributed by overland flow from the pools' watershed, or the results of biological processes within the pools themselves, such as single-celled bacteria, algae, and dead organic matter, to provide for feeding; and

(iv) Structure within the pools described above in paragraph (2)(ii), consisting of organic and inorganic materials, such as living and dead plants from plant species adapted to seasonally inundated environments, rocks, and other inorganic debris that may be washed, blown, or otherwise transported into the pools, that provide shelter.

(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) Unit 1: Shasta County, California. From USGS 1:24,000 scale quadrangle Palo Cedro, Enterprise, Balls Ferry, and Cottonwood. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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; 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; returning to 562500, 4487400;

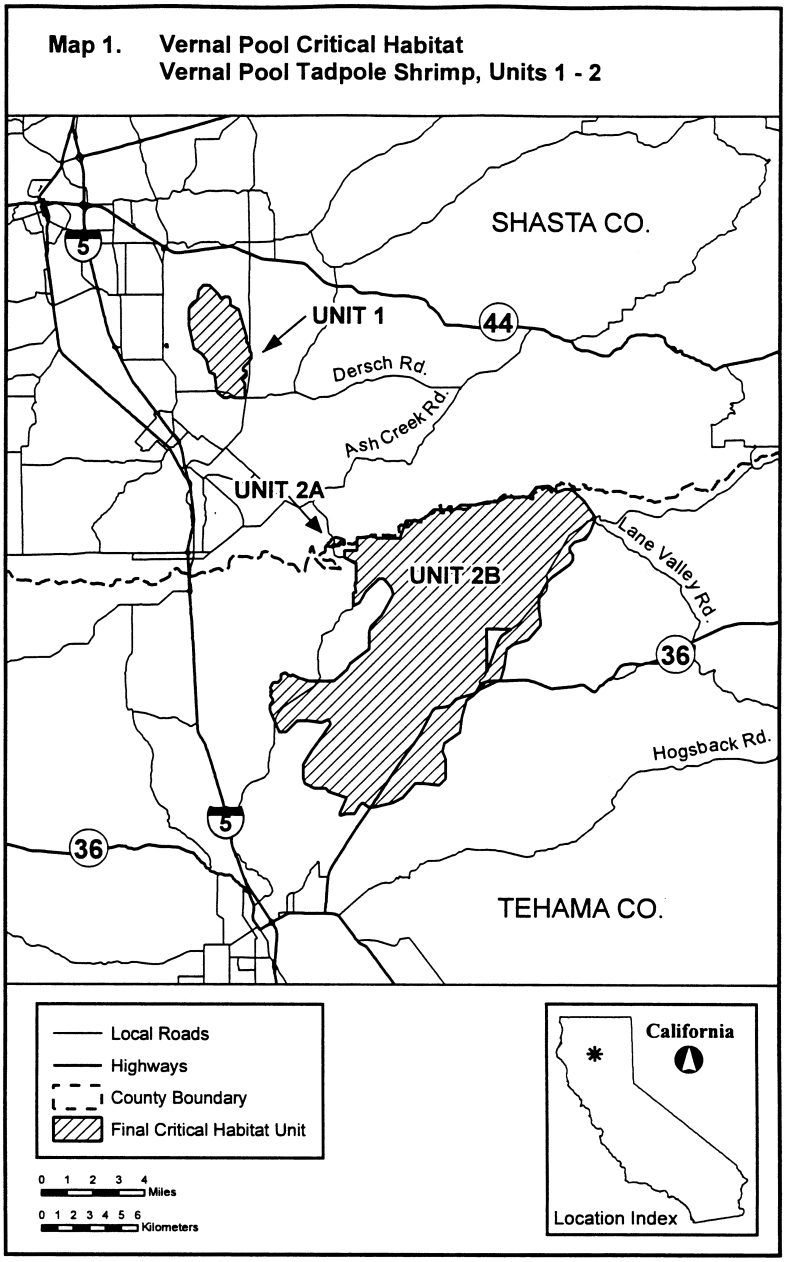
(5) Unit 2: Shasta County, California.

(i) Unit 2A: Shasta County, California. From USGS 1:24,000 scale quadrangle Balls Ferry. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 570448, 4472017; 570459, 4471725; 570459, 4471725; 570459, 4471724; 570408, 4471708; 570382, 4471714; 570356, 4471741; 570335, 4471767; 570304, 4471767; 570298, 4471772; 570279, 4471768; 570240, 4471758; 570210, 4471761; 570196, 4471743; 570183, 4471738; 570173, 4471734; 570160, 4471705; 570156, 4471680; 570156, 4471678; 570150, 4471671; 570139, 4471657; 570139, 4471654; 570139, 4471645; 570118, 4471628; 570092, 4471624; 570089, 4471624; 570071, 4471623; 570054, 4471623; 570006, 4471624; 569975, 4471641; 569952, 4471639; 569913, 4471639; 569893, 4471626; 569866, 4471623; 569852, 4471624; 569821, 4471597; 569810, 4471574; 569789, 4471573; 569761, 4471574; 569757, 4471575; 569735, 4471544; 569722, 4471574; 569676, 4471581; 569658, 4471581; 569644, 4471584; 569625, 4471584; 569605, 4471585; 569557, 4471585; 569534, 4471593; 569517, 4471599; 569494, 4471607; 569465, 4471615; 569438, 4471622; 569415, 4471629; 569400, 4471629; 569400, 4471687; 569400, 4471800; 569600,

4471900; 569600, 4472000; 569900, 4472200; 570200, 4472100; returning to 570448, 4472017;

(ii) Unit 2B: Shasta and Tehama Counties, California. From USGS 1:24,000 scale quadrangle Shingletown, Tuscan Buttes NE, Balls Ferry, Dales, Bend, and Red Bluff East. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 583610, 4475072; 583700, 4475000; 584200, 4475200; 584600, 4475200; 585400, 4474500; 586000, 4473600; 586100, 4473400; 585800, 4472600; 585500, 4472100; 584800, 4471900; 584500, 4471600; 584500, 4471400; 584700, 4471100; 584700, 4470800; 584500, 4470500; 583400, 4469700; 583100, 4469400; 582600, 4468500; 582600, 4467600; 582700, 4466900; 582700, 4466700; 581900, 4465800; 581000, 4465500; 580600, 4465200; 580400, 4464000; 580200, 4463300; 578900, 4462700; 578500, 4462300; 578100, 4462000; 577800, 4460900; 577700, 4460000; 576700, 4459300; 576600, 4458800; 576800, 4458300; 576800, 4457100; 576400, 4456700; 575500, 4456800; 574900, 4456800; 574100, 4455900; 573500, 4455600; 572300, 4455300; 572000, 4455300; 571600, 4455600; 571400, 4455400; 571100, 4454900; 570600, 4454900; 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; 570460, 4470920; 570460, 4470932; 570466, 4470931; 570461, 4471354; 570786, 4471349; 571229, 4471353; 571235, 4471908; 571236, 4471912; 571238, 4471962; 571244, 4471992; 571237, 4472042; 571244, 4472069; 571247, 4472123; 571249, 4472164; 571271, 4472165; 571363, 4472165; 571405, 4472139; 571460, 4472143; 571460, 4472143; 571467, 4472144; 571524, 4472166; 571541, 4472166; 571635, 4472166; 571647, 4472171; 571714, 4472199; 571723, 4472200; 571739, 4472200; 571900, 4472200; 572154, 4472285; 572154, 4472284; 572156, 4472284; 572159, 4472227; 572162, 4472225; 572168, 4472227; 572181, 4472226; 572208, 4472225; 572219, 4472223; 572231, 4472219; 572241, 4472217; 572282, 4472215; 572307, 4472215; 572325, 4472213; 572332, 4472212; 572500, 4472100; 573900, 4472100; 574151, 4472791; 574207, 4472814; 574212, 4472816; 574219, 4472814; 574238, 4472808; 574256, 4472804; 574271, 4472800; 574293, 4472798; 574321, 4472797; 574342, 4472798; 574360, 4472803; 574369, 4472807; 574384, 4472811; 574403, 4472815; 574428, 4472823; 574450, 4472828; 574469, 4472831; 574483, 4472832; 574489, 4472834; 574488, 4472924; 574488, 4472933; 574488, 4472941; 574487, 4472952; 574487, 4472951; 574459, 4472946; 574443, 4472942; 574425, 4472940; 574411, 4472938; 574397, 4472937; 574391, 4472934; 574379, 4472930; 574373, 4472928; 574365, 4472924; 574356, 4472921; 574353, 4472920; 574342, 4472919; 574346, 4472925; 574358, 4472955; 574465, 4473021; 574448, 4473020; 574445, 4473038; 574336, 4472971; 574326, 4472947; 574297, 4472920; 574278, 4472922; 574261, 4472941; 574253, 4472951; 574231, 4472975; 574223, 4472987; 574300, 4473200; 574754, 4473200; 574939, 4473200; 575100, 4473200; 575456, 4473413; 575600, 4473500; 575624, 4473524; 576000, 4473900; 576107, 4473900; 576460, 4473900; 576600, 4473900; 576883, 4473900; 577069, 4473900; 577300, 4473900; 577344, 4473933; 577351, 4473938; 577700, 4474200; 578600, 4474200; 578685, 4474224; 578803, 4474258; 579300, 4474400; 579637, 4474400; 580000, 4474400; 580600, 4474700; 580991, 4474700; 581447, 4474700; 581900, 4474700; 581931, 4474738; 582400, 4475300; 583000, 4475400; 583200, 4475400; returning to 583610, 4475072;

(iii) NOTE: Units 1 and 2 (Map 1) follow:



(6) Unit 3: Tehama County, California.

(i) Unit 3A: Tehama County, California. From USGS 1:24,000 scale quadrangle Acorn Hollow and Richardson Springs NW. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 588739, 4429822; 588900, 4429500; 589500, 4429500; 589500, 4428600; 589500, 4428000; 589800, 4427100; 590500, 4426400; 590500,

4425300; 591200, 4424400; 591500, 4423300; 591562, 4422558; 590526, 4423686; 589986, 4424273; 589816, 4424458; 589129, 4425207; 588454, 4426221; 588425, 4426265; 588279, 4426485; 588213, 4426583; 588213, 4426584; 588600, 4429100; 588733, 4429833; returning to 588739, 4429822;

(ii) Unit 3B: Tehama County, California. From USGS 1:24,000 scale quadrangle Richard Springs NW. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 593700, 4420900; 593164, 4420815; 592329, 4421723; 592258, 4421800; 593000, 4421800; 593100, 4421500; 593500, 4421400; returning to 593700, 4420900;

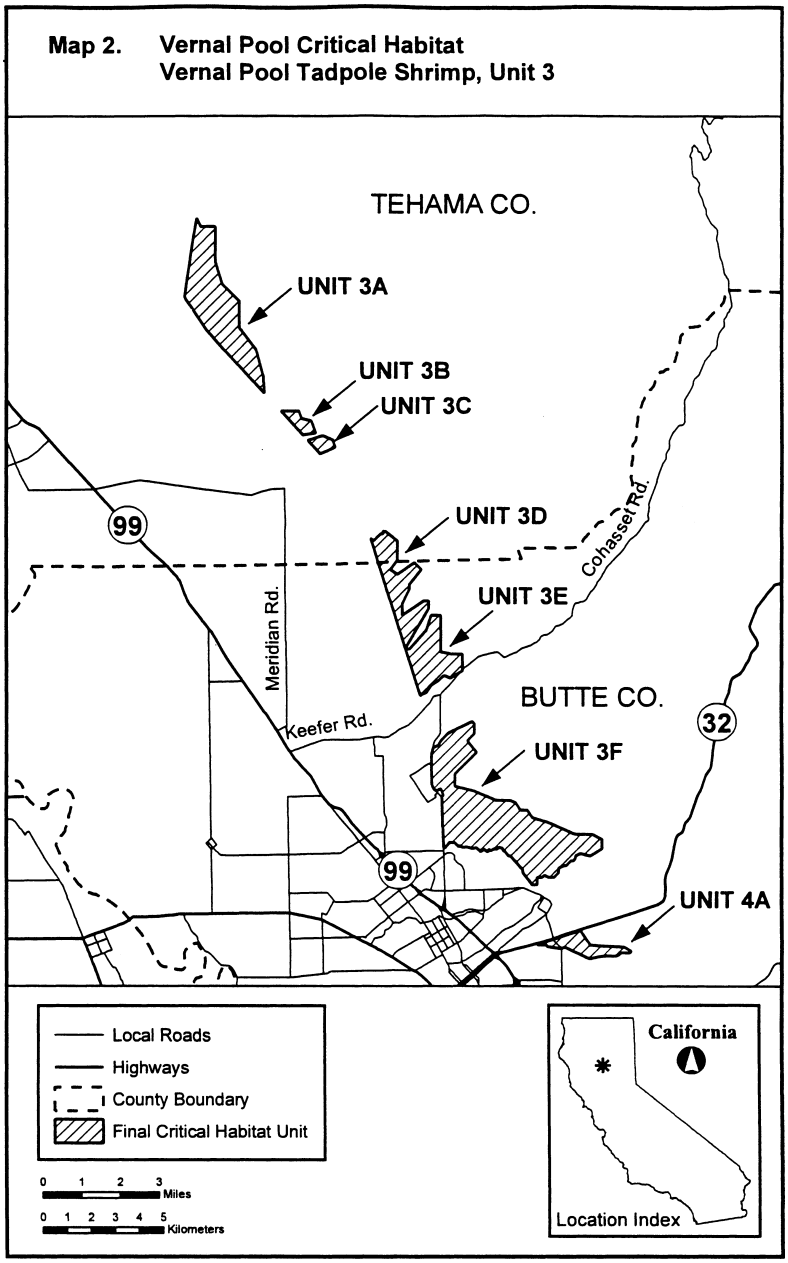
(iii) Unit 3C: Tehama County, California. From USGS 1:24,000 scale quadrangle Richard Springs NW. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 594500, 4420300; 593881, 4420035; 593371, 4420590; 594000, 4420800; 594400, 4420600; returning to 594500, 4420300;

(iv) Unit 3D: Tehama and Butte Counties, California. From USGS 1:24,000 scale quadrangle Campbell Mound, Richardson Springs NW, and Richardson Springs. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 597100, 4416400; 597100, 4415600; 597044, 4415525; 596800, 4415200; 597100, 4415000; 597800, 4415500; 598100, 4415200; 597600, 4414600; 597600, 4414400; 597300, 4413800; 597300, 4413300; 598200, 4413900; 598400, 4413900; 598400, 4413600; 597422, 4411938; 597281, 4412382; 596959, 4413403; 596640, 4414416; 596620, 4414481; 596305, 4415484; 596303, 4415489; 596130, 4416040; 596091, 4416160; 596028, 4416358; 596011, 4416411; 595993, 4416465; 595982, 4416500; 596000, 4416500; 596100, 4416400; 596200, 4416500; 596300, 4416600; 596400, 4416700; 596500, 4416700; 596500, 4416800; 596600, 4416800; 597100, 4416400;

(v) Unit 3E: Butte County, California. From USGS 1:24,000 scale quadrangle Richardson Springs. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 598900, 4411800; 599400, 4411700; 599800, 4411700; 599800, 4411000; 599300, 4410700; 599100, 4410800; 599000, 4410800; 598800, 4410600; 598500, 4410400; 598300, 4410100; 598100, 4410000; 598070, 4409970; 598051, 4409993; 598038, 4410010; 598014, 4410083; 597806, 4410737; 597725, 4410990; 597461, 4411816; 597434, 4411900; 597600, 4411900; 598300, 4412700; 598500, 4413300; 598900, 4413300; returning to 598900, 4411800;

(vi) Unit 3F: Butte County, California. From USGS 1:24,000 scale quadrangle Richardson Springs. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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; 602900, 4402100; 602700, 4402100; 602300, 4402600; 602300, 4402700; 601800, 4403300; 601714, 4403300; 601553, 4403500; 601501, 4403499; 601465, 4403621; 601319, 4403663; 601226, 4403595; 601089, 4403571; 600979, 4403503; 600901, 4403569; 600860, 4403446; 600704, 4403566; 600542, 4403475; 600507, 4403530; 600473, 4403563; 600453, 4403580; 600369, 4403651; 600344, 4403642; 600232, 4403605; 599983, 4403679; 599973, 4403678; 599801, 4403662; 599725, 4403718; 599651, 4403697; 599493, 4403839; 599328, 4403862; 599302, 4403865; 599269, 4403870; 599084, 4403634; 599024, 4403611; 598987, 4404400; 598980, 4404543; 598971, 4404723; 598955, 4405388; 598953, 4405458; 598951, 4405529; 598947, 4405677; 598934, 4405719; 598919, 4405750; 599000, 4405800; 598900, 4406100; 598700, 4406000; 598694, 4406000; 598635, 4406058; 598598, 4406103; 598583, 4406127; 598567, 4406159; 598549, 4406210; 598544, 4406234; 598540, 4406255; 598533, 4406421; 598522, 4406815; 598516, 4407133; 598511, 4407496; 598513, 4407515; 598525, 4407568; 598527, 4407571; 598527, 4407589; 598580, 4407812; 598800, 4407900; 598900, 4408100; 599200, 4408400; 600200, 4408900; 600300, 4408800; 600300, 4408400; 600000, 4408100; 600400, 4407600; 599500, 4406700; returning to 599500, 4406200.

(vii) NOTE: Unit 3 (Map 2) follows:



(7) Unit 4: Butte County, California.

(i) Unit 4A: Butte County, California. From USGS 1:24,000 scale quadrangle Chico. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 605100, 4399600; 606500, 4399500; 606797, 4399330; 606777, 4399300; 606724, 4399252; 606568, 4399265; 606528, 4399272; 606479, 4399279; 606478, 4399279; 606394, 4399264; 606362,

4399238; 606329, 4399210; 606274, 4399169; 606209, 4399135; 606125, 4399122; 606060, 4399122; 605967, 4399131; 605899, 4399134; 605857, 4399134; 605822, 4399130; 605789, 4399116; 605781, 4399138; 605775, 4399149; 605764, 4399152; 605763, 4399152; 605701, 4399142; 605589, 4399116; 605504, 4399107; 605432, 4399110; 605319, 4399064; 605233, 4399045; 605173, 4399034; 605135, 4399023; 605134, 4399023; 605127, 4399023; 605109, 4399023; 605080, 4399025; 605063, 4399025; 605002, 4399051; 604957, 4399069; 604907, 4399092; 604029, 4399508; 603896, 4399435; 603886, 4399435; 603879, 4399436; 603300, 4399523; 603300, 4399600; 602900, 4399600; 603500, 4399800; 604700, 4400200; returning to 605100, 4399600;

(ii) Unit 4B: Butte County, California. From USGS 1:24,000 scale quadrangle Hamlin Canyon and Chico. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 606028, 4393143; 606288, 4392851; 606346, 4392785; 606490, 4392637; 606537, 4392593; 607117, 4392045; 607644, 4391539; 607748, 4391438; 607826, 4391363; 608227, 4390978; 608537, 4390636; 608852, 4390288; 609145, 4389965; 609391, 4389694; 609721, 4389330; 609736, 4389313; 609890, 4389143; 610122, 4388889; 610187, 4388819; 610239, 4388754; 610321, 4388664; 610359, 4388624; 610400, 4388500; 609300, 4388100; 609300, 4387900; 608800, 4387800; 608800, 4389300; 607600, 4389300; 607600, 4389500; 607500, 4389600; 607400, 4389600; 607400, 4389900; 607300, 4390000; 607400, 4390000; 607500, 4390100; 607400, 4390300; 607400, 4390500; 607300, 4390600; 607300, 4390800; 607100, 4391000; 605700, 4392300; 605800, 4392300; 606000, 4392500; 606100, 4392700; 605900, 4392900; 605800, 4392900; 605600, 4392800; returning to 606028, 4393143;

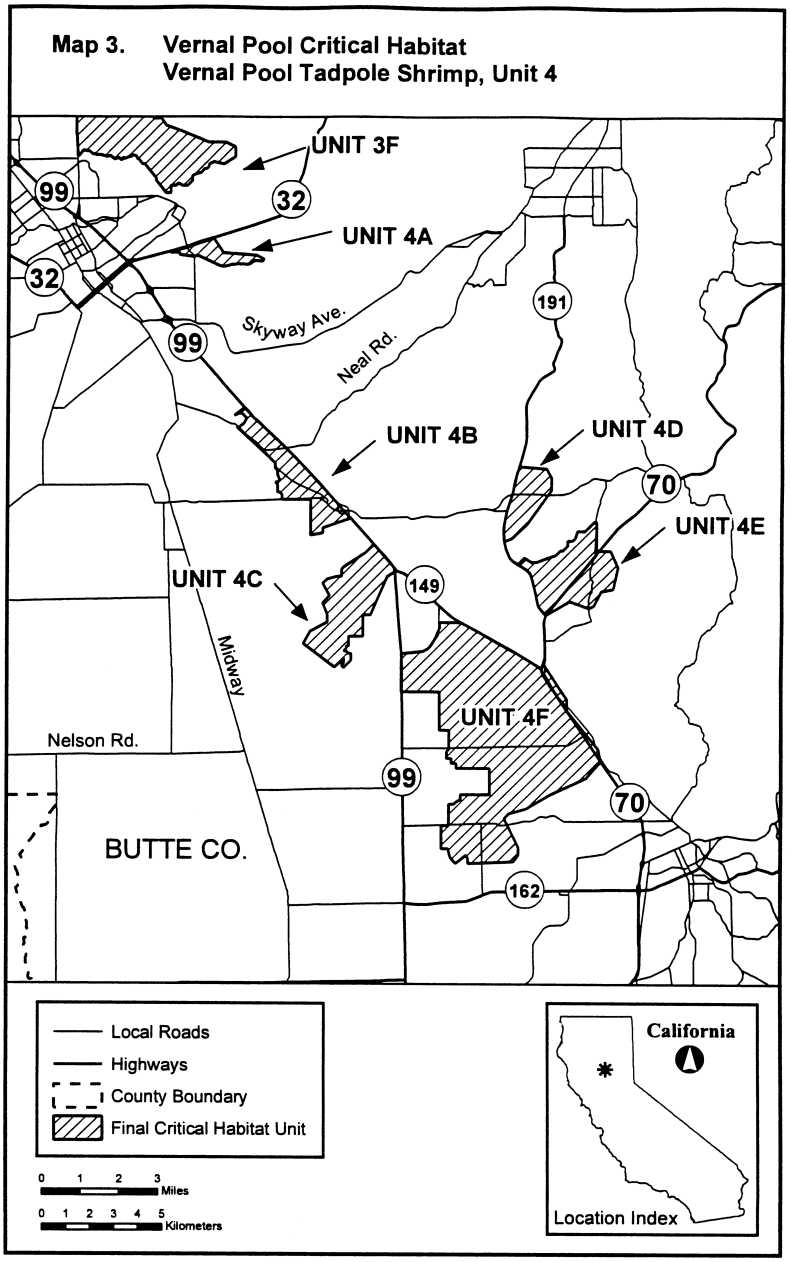
(iii) Unit 4C: Butte County, California. From USGS 1:24,000 scale quadrangle Hamlin Canyon and Shippee. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 610300, 4383000; 610400, 4382900; 610500, 4382900; 610500, 4382800; 610500, 4382700; 610500, 4382600; 610200, 4382300; 610100, 4382400; 610200, 4382500; 610200, 4382600; 610200, 4382700; 610100, 4382600; 609900, 4382400; 609814, 4382314; 608500, 4383300; 608800, 4383800; 609500, 4384200; 609500, 4384500; 609300, 4385000; 609600, 4385300; 609300, 4385800; 609500, 4386000; 609900, 4386100; 610100, 4386100; 610100, 4386400; 610200, 4386500; 610500, 4386700; 611100, 4387100; 611400, 4387400; 611364, 4387515; 611887, 4386936; 612214, 4386572; 612293, 4386410; 612300, 4386300; 612000, 4386100; 611300, 4384500; 611000, 4384500; 611000, 4383600; 610400, 4383600; 610400, 4383200; 610300, 4383200; 610300, 4383100; 610200, 4383000; returning to 610300, 4383000;

(iv) Unit 4D: Butte County, California. From USGS 1:24,000 scale quadrangle Cherokee and Hamlin Canyon. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 617200, 4387700; 616864, 4387566; 616852, 4387659; 616841, 4388048; 616843, 4388082; 616851, 4388261; 616929, 4388656; 616982, 4388850; 617175, 4389518; 617195, 4389572; 617301, 4390087; 617309, 4390125; 617361, 4390354; 617380, 4390409; 617409, 4390495; 617442, 4390589; 617469, 4390681; 618600, 4390600; 618800, 4390200; 618800, 4389700; 617800, 4388300; returning to 617200, 4387700;

(v) Unit 4E: Butte County, California. From USGS 1:24,000 scale quadrangle Cherokee, Shippee, and Oroville. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 620700, 4388400; 620700, 4387200; 621300, 4387200; 621600, 4386500; 621400, 4385600; 620900, 4385500; 620600, 4384900; 620400, 4384800; 619600, 4385100; 618600, 4384500; 618592, 4384506; 618592, 4384506; 618560, 4384544; 618512, 4384601; 618377, 4384762; 618358, 4384795; 618286, 4384915; 618226, 4385148; 618207, 4385219; 618185, 4385338; 618017, 4386021; 617998, 4386107; 617951, 4386211; 617930, 4386256; 617902, 4386281; 617839, 4386361; 617731, 4386441; 617685, 4386463; 617667, 4386465; 617664, 4386478; 617425, 4386625; 617700, 4386900; 618000, 4386700; 618200, 4386700; 618700, 4386900; 619000, 4387000; 619200, 4387200; 619300, 4387200; 619500, 4387400; 619500, 4387600; 619700, 4387600; 619800, 4387700; 619900, 4388000; 620200, 4388000; 620600, 4388400; returning to 620700, 4388400;

(vi) Unit 4F: Butte County, California. From USGS 1:24,000 scale quadrangle Oroville and Shippe. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 618368, 4382306; 618445, 4382277; 618444, 4382301; 618457, 4382372; 618463, 4382408; 618500, 4382501; 618500, 4382500; 619300, 4381300; 619500, 4381000; 619500, 4380500; 620800, 4378900; 620900, 4378400; 620300, 4377700; 618800, 4377000; 617800, 4376400; 617100, 4376200; 616900, 4376000; 617500, 4374800; 617500, 4374500; 617300, 4374200; 615415, 4374121; 615404, 4374354; 615319, 4374453; 614883, 4374120; 614665, 4374382; 614570, 4374749; 614300, 4374727; 614300, 4375700; 614600, 4375700; 614600, 4376600; 614800, 4376600; 614900, 4376700; 615100, 4376800; 615100, 4377000; 615900, 4377000; 616300, 4377000; 616300, 4378100; 614900, 4378100; 614900, 4378300; 614700, 4378300; 614700, 4378500; 614500, 4378500; 614500, 4378800; 614600, 4378900; 614600, 4379700; 614200, 4379700; 614200, 4381300; 612600, 4381300; 612600, 4382900; 613500, 4383000; 613700, 4383100; 613800, 4383200; 614000, 4383500; 614200, 4384000; 614200, 4384200; 614800, 4384200; 615073, 4384200; 615806, 4383804; 616704, 4383304; 617266, 4382991; 617327, 4382957; 617563, 4382829; 617589, 4382812; 617987, 4382563; 618347, 4382330; returning to 618368, 4382306.

(vii) NOTE: Unit 4 (Map 3) follows:

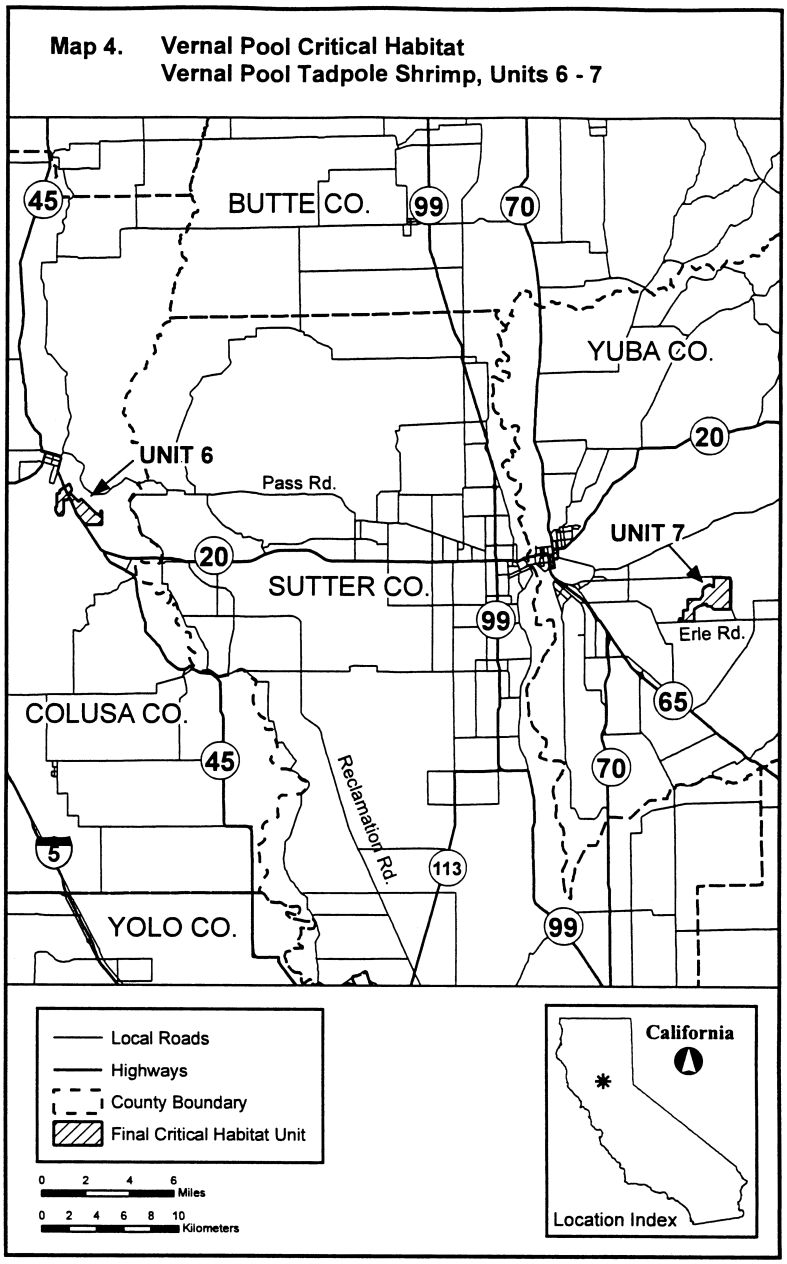


(8) Unit 6: Colusa County, California. From USGS 1:24,000 scale quadrangle Meridian and Colusa. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 585800, 4337200; 585900, 4337200; 585900, 4337200; 585900, 4338200; 586100, 4338200; 586100, 4338400; 586800, 4338900; 587000, 4338500; 587000, 4338400; 586800, 4338200; 587000, 4338100; 587500, 4337600; 587700,

4337800; 588800, 4336700; 588900, 4336700; 589100, 4336500; 589100, 4336900; 589200, 4336900; 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; returning to 585800, 4337200;

(9) Unit 7: Yuba County, California. From USGS 1:24,000 scale quadrangle Browns Valley and Wheatland. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 635000, 4332200; 635000, 4329900; 634600, 4329900; 633800, 4329900; 633600, 4330100; 633500, 4330100; 633300, 4330100; 633300, 4330300; 632700, 4330100; 632400, 4329900; 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; returning to 635000, 4332200;

(10) NOTE: Units 6 and 7 (Map 4) follow:



(11) Unit 8: Sacramento County, California. From USGS 1:24,000 scale quadrangle Carmichael. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 649800, 4269600; 649800, 4268700; 650400, 4268900; 650800, 4268800; 651000, 4268800; 651000, 4269400; 651800, 4269300; 651500, 4268800; 651600, 4267900; 651600, 4266500; 651500, 4266400; 651500, 4266300;

651100, 4266300; 651100, 4266000; 651570, 4265812; 651589, 4265075; 651600, 4264400; 651400, 4264400; 651400, 4264200; 650500, 4264200; 650500, 4264300; 650400, 4264300; 650400, 4264600; 650000, 4264700; 649900, 4265100; 649400, 4265100; 649100, 4265000; 648900, 4265100; 648700, 4265100; 648700, 4265300; 648700, 4265500; 649900, 4265500; 649900, 4266000; 648300, 4266000; 648300, 4266200; 648500, 4266400; 648700, 4266200; 649000, 4266200; 649300, 4266400; 649400, 4266600; 649635, 4266678; 649700, 4266700; 649794, 4266693; 650200, 4267100; 650400, 4267000; 650600, 4267000; 650800, 4267200; 650900, 4267500; 650800, 4267900; 650500, 4267800; 650300, 4268100; 649900, 4268400; 649400, 4268100; 649100, 4267800; 649100, 4267500; 649400, 4267400; 649200, 4267100; 648400, 4267100; 648300, 4267700; 648000, 4268000; 648600, 4268500; 649400, 4268900; 649400, 4269200; 649600, 4269600; returning to 649800, 4269600;

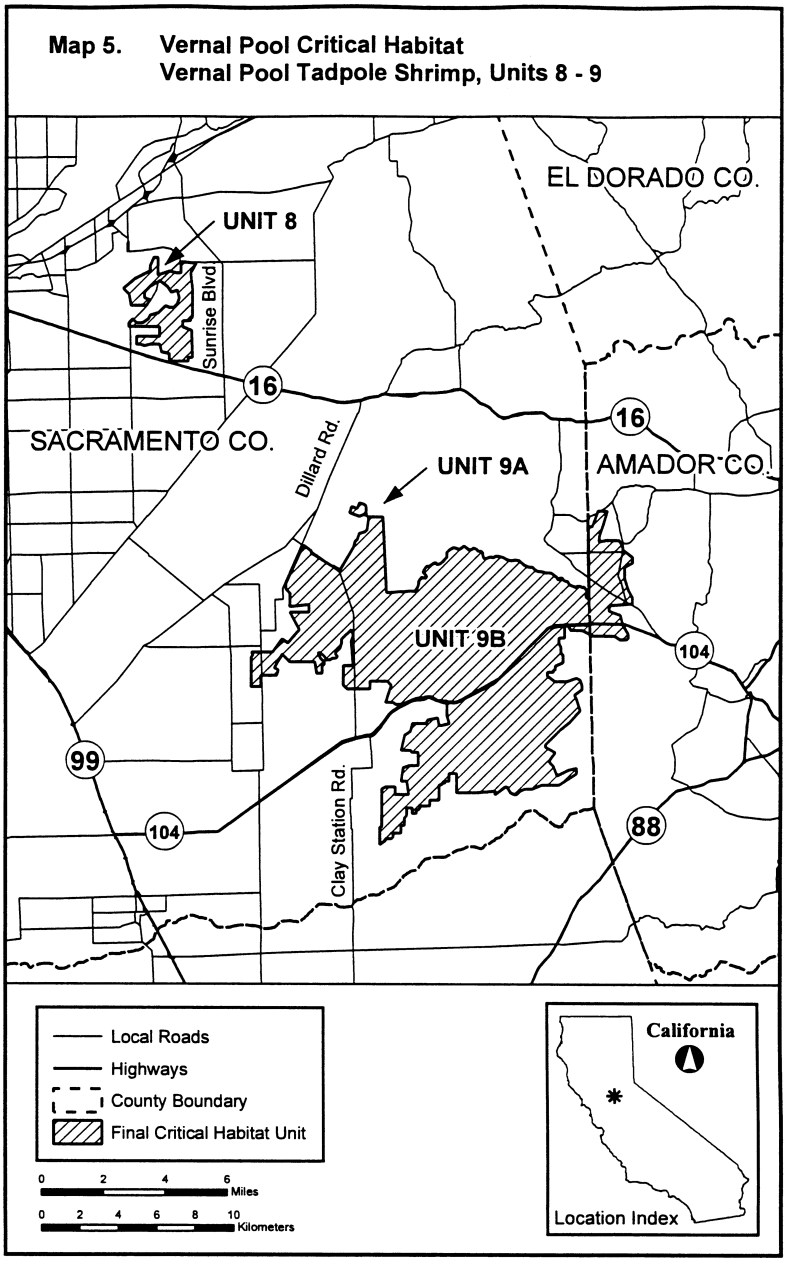
(12) Unit 9: Sacramento County, California.

(i) Unit 9A: Sacramento County, California. From USGS 1:24,000 scale quadrangle Sloughhouse. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 660660, 4256508; 660681, 4256119; 660600, 4256200; 660300, 4256100; 660000, 4256200; 659800, 4256300; 659850, 4256450; 659900, 4256600; 660200, 4256500; 660300, 4256800; 660515, 4256728; 660633, 4256644; 660645, 4256626; returning to 660660, 4256508;

(ii) Unit 9B: Sacramento and Amador Counties, California. From USGS 1:24,000 scale quadrangle Carbondale, Sloughhouse, Goose Creek, and Clay. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 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; 672315, 4249992; 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; 671800, 4246000; 671255, 4245364; 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; 663050, 4243800; 663029, 4243841; 663000, 4243900; 662500, 4243900; 662700, 4244700; 662850, 4244800; 663000, 4244900; 663100, 4245300; 663800, 4245300; 663900, 4245500; 664400, 4245600; 664500, 4245200; 664600, 4245200; 664750, 4245238; 664900, 4245275; 665000, 4245300; 664900, 4245700; 664900, 4246500; 664400, 4246500; 663900, 4246700; 662500, 4246300; 662233, 4246300; 662100, 4246400; 661700, 4246400; 661900, 4247000; 662000, 4247300; 661800, 4247500; 660900, 4247500; 660900, 4247140; 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; 654800, 4248900; 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; 657800, 4254200; 658100, 4254000; 658900, 4253500; 659000, 4253500; 659300, 4253300; 660000, 4254500; 660100, 4254800; 660200, 4254900; 660300, 4255200; 660600, 4255300; 660700, 4255400; 660800, 4256000; 660754, 4256046; 660777, 4256046; 661541, 4256060; 661554, 4255796; 661731, 4252263; 661736, 4252142; 662180, 4252172; 662313, 4252175; 662583, 4252191; 663009, 4252217; 663119, 4252198; 663221, 4252234; 663275, 4252290; 663311, 4252341; 663324, 4252391; 663344, 4252446; 663378, 4252511; 663390, 4252591; 663409, 4252710; 663437, 4252770; 663510, 4252890; 663546, 4252914; 663590, 4252922; 663630, 4252907; 663726, 4252900; 663761, 4252901; 663800, 4252916; 663817, 4252959; 663824, 4252991; 663760, 4253075; 663650, 4253199; 663651, 4253232; 663667, 4253286; 663741, 4253408; 663807, 4253488; 663832, 4253490; 663904, 4253486; 663962, 4253498; 664039, 4253560; 664088, 4253602; 664125, 4253617; 664219, 4253695; 664248, 4253699; 664313, 4253672; 664369, 4253606; 664471, 4253613; 664566, 4253675; 664591, 4253700; 664647, 4253753; 664752, 4253850; 664854, 4253953; 664868, 4254000; 664877, 4254124; 664856, 4254193; 664883, 4254238; 664977, 4254334; 665118, 4254420; 665174, 4254468; 665227, 4254492; 665313, 4254463; 665390, 4254424; 665514, 4254389; 665619, 4254438; 665656, 4254494; 665723, 4254546; 665757, 4254558; 665800, 4254553; 665853, 4254513; 665880, 4254493; 665956, 4254434; 665960, 4254402; 666029, 4254364; 666067, 4254367; 666114, 4254379; 666168, 4254392; 666236, 4254440; 666273, 4254448; 666310, 4254440; 666339, 4254435; 666417, 4254404; 666451,

4254362; 666491, 4254319; 666523, 4254309; 666581, 4254312; 666652, 4254306; 666705, 4254261; 666722, 4254230; 666740, 4254164; 666742, 4254084; 666763, 4253987; 666791, 4253947; 666826, 4253919; 666849, 4253913; 666914, 4253917; 666977, 4253951; 667057, 4253975; 667142, 4253997; 667253, 4253980; 667277, 4253964; 667302, 4253968; 667313, 4253981; 667315, 4254007; 667377, 4254034; 667482, 4254039; 667618, 4254026; 667801, 4253975; 667959, 4253881; 668167, 4253821; 668360, 4253834; 668422, 4253849; 668525, 4253837; 668643, 4253804; 668700, 4253743; 668799, 4253665; 668877, 4253610; 668998, 4253531; 669098, 4253487; 669171, 4253483; 669251, 4253471; 669328, 4253465; 669399, 4253396; 669461, 4253324; 669558, 4253276; 669619, 4253256; 669665, 4253257; 669859, 4253247; 670012, 4253179; 670143, 4253173; 670241, 4253188; 670278, 4253185; 670320, 4253159; 670371, 4253105; 670419, 4253074; 670499, 4253007; 670537, 4252992; 670594, 4252927; 670626, 4252873; 670642, 4252848; 670663, 4252843; 670712, 4252851; 670732, 4252875; 670716, 4252907; 670727, 4252921; 670756, 4252934; 670807, 4252923; 670850, 4252924; 670883, 4252896; 670912, 4252829; 670949, 4252789; 670975, 4252773; 671041, 4252762; 671109, 4252759; 671191, 4252663; 671270, 4252568; 671315, 4252537; 671376, 4252519; 671438, 4252504; 671509, 4252465; 671531, 4252448; 671559, 4252450; 671603, 4252490; 671631, 4252509; 671674, 4252515; 671716, 4252510; 671773, 4252503; 671827, 4252497; 671848, 4252476; 671934, 4252419; 671943, 4252426; 671963, 4252453; 671990, 4252458; 672004, 4252435; 672042, 4252400; 672107, 4252306; 672117, 4252284; 672129, 4252256; 672134, 4252244; 672152, 4252230; 672159, 4252200; 672153, 4252190; 672148, 4252180; 672110, 4252165; 672104, 4252149; 672109, 4252101; 672114, 4252080; 672113, 4252055; 672107, 4251980; 672120, 4251908; 672151, 4251893; 672177, 4251906; 672185, 4251900; 672199, 4251865; 672213, 4251830; 672245, 4251802; 672263, 4251784; 672271, 4251775; 672271, 4251787; 672265, 4252117; 672263, 4252199; 672247, 4252916; 672246, 4252941; 672231, 4253670; 672225, 4253953; 672223, 4254006; 672220, 4254157; 672219, 4254229; 672217, 4254287; 672192, 4255610; 672200, 4255600; 672400, 4255600; 672700, 4256400; returning to 673200, 4256400;

(iii) NOTE: Units 8 and 9 (Map 5) follow:



(13) Unit 10: Yolo County, California. From USGS 1:24,000 scale quadrangle Davis. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 615400, 4262300; 615400, 4260700; 614500, 4260700; 614500, 4261500; 614200, 4261500; 614200, 4261800; 614000, 4261800; 614000, 4262300; returning to 615400, 4262300;

(14) Unit 11: Solano County, California

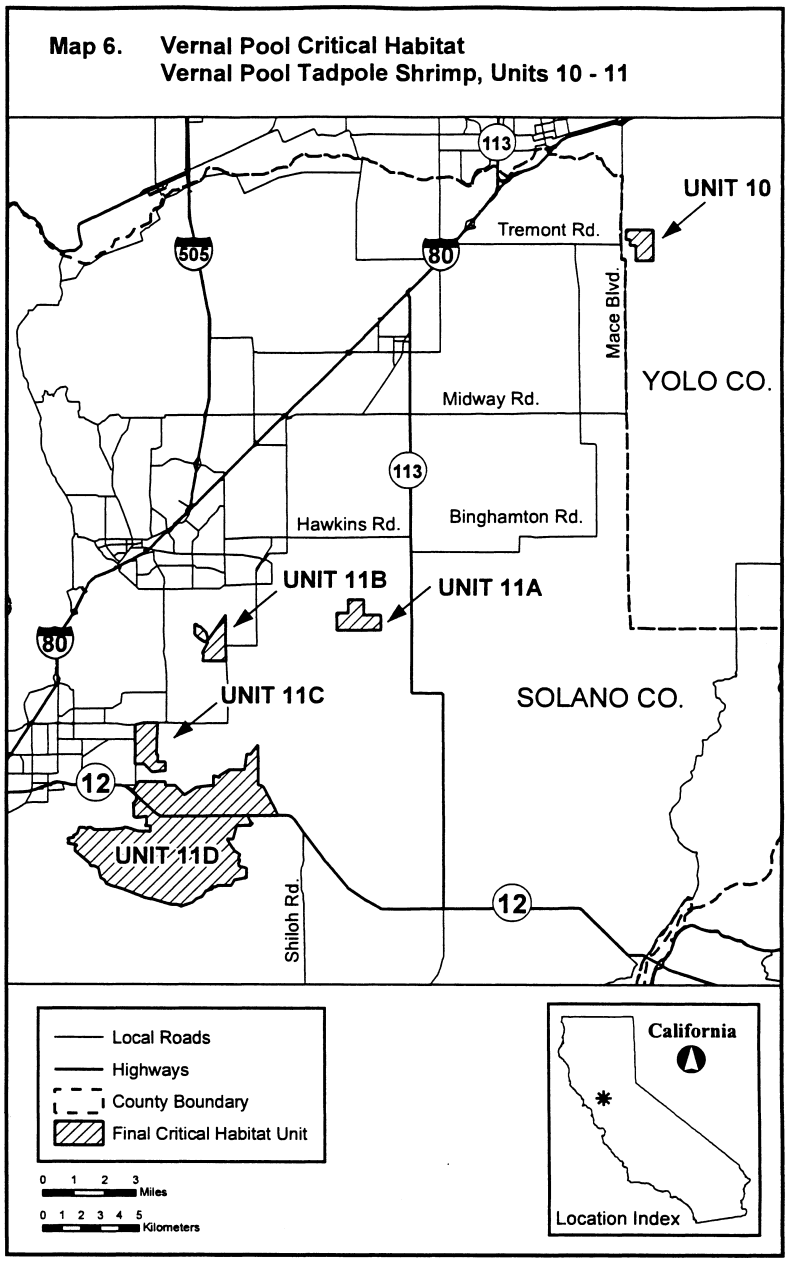
(i) Unit 11A: Solano County, California. From USGS 1:24,000 scale quadrangle Dozier. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 600400, 4243000; 600400, 4242200; 601300, 4242200; 601300, 4241416; 601002, 4241415; 600878, 4241415; 600446, 4241414; 600021, 4241414; 599000, 4241412; 599000, 4242300; 599600, 4242300; 599600, 4243000; returning to 600400, 4243000;

(ii) Unit 11B: Solano County, California. From USGS 1:24,000 scale quadrangle Elmira. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 593200, 4242200; 593200, 4240600; 593211, 4240600; 593255, 4239807; 592030, 4239793; 592062, 4240126; 592044, 4240137; 592026, 4240170; 592026, 4240181; 592030, 4240261; 592300, 4240800; 592100, 4240800; 591800, 4241000; 591700, 4241100; 591600, 4241200; 591600, 4241300; 591600, 4241700; 591700, 4241700; 591800, 4241600; 591900, 4241600; 592000, 4241500; 592200, 4241300; 592300, 4240900; returning to 593200, 4242200;

(iii) Unit 11C: Solano County, California. From USGS 1:24,000 scale quadrangle Elmira and Denverton. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 589698, 4236560; 589600, 4234900; 589700, 4234900; 589700, 4234500; 590100, 4234500; 590100, 4234064; 589400, 4234000; 589000, 4234400; 588500, 4234400; 588500, 4236400; 588549, 4236449; 588944, 4236551; 589524, 4236558; 589670, 4236559; returning to 589698, 4236560;

(iv) Unit 11D: Solano County, California. From USGS 1:24,000 scale quadrangle Elmira, Denverton, and Fairfield South. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 594915, 4234098; 594916, 4233314; 595044, 4233310; 595068, 4233296; 595131, 4233266; 595174, 4233226; 595189, 4233210; 595239, 4233151; 595322, 4232978; 595423, 4232778; 595483, 4232667; 595553, 4232524; 595699, 4232243; 595966, 4231717; 594927, 4231710; 594445, 4231707; 594409, 4231673; 594410, 4231616; 594434, 4231540; 594474, 4231494; 594495, 4231457; 594497, 4231414; 594510, 4231370; 594543, 4231356; 594575, 4231342; 594603, 4231341; 594614, 4231338; 594616, 4231325; 594618, 4231311; 594614, 4231290; 594605, 4231284; 594583, 4231275; 594573, 4231268; 594557, 4231245; 594550, 4231209; 594543, 4231179; 594500, 4231200; 593800, 4231200; 593600, 4230500; 593291, 4230515; 593291, 4230514; 593700, 4229900; 594000, 4229700; 593900, 4229600; 593900, 4229500; 594000, 4229400; 593900, 4229300; 593900, 4229100; 594300, 4229000; 594300, 4228500; 593700, 4228400; 593500, 4228100; 592800, 4228100; 592700, 4228000; 592600, 4228000; 592500, 4227900; 592200, 4227800; 592000, 4227500; 591700, 4227400; 591500, 4227200; 591200, 4227100; 590900, 4227000; 590700, 4227100; 590400, 4227100; 589400, 4227400; 589265, 4227400; 589026, 4227463; 588707, 4227579; 587979, 4227869; 587973, 4227872; 587467, 4228036; 587339, 4228077; 587009, 4228197; 586933, 4228334; 586900, 4228400; 586700, 4228500; 586600, 4229000; 586400, 4229100; 586200, 4229100; 586100, 4229300; 585400, 4229900; 585400, 4230100; 585500, 4230200; 585000, 4230300; 585100, 4230400; 585000, 4230500; 585111, 4230567; 585124, 4230550; 585327, 4230585; 585319, 4230629; 585295, 4230649; 585270, 4230662; 585500, 4230800; 585600, 4231100; 585903, 4231100; 585908, 4231071; 585926, 4231064; 585956, 4231058; 586038, 4231061; 586045, 4231073; 586045, 4231088; 586027, 4231096; 586022, 4231100; 586267, 4231100; 586273, 4231084; 586323, 4231038; 586340, 4230994; 587435, 4231016; 587882, 4231052; 587967, 4231111; 587991, 4231124; 588015, 4231126; 588034, 4231123; 588075, 4231099; 588085, 4231097; 588116, 4231095; 588700, 4230900; 588842, 4230900; 588842, 4230900; 588925, 4230897; 588989, 4230899; 589090, 4230913; 589179, 4230901; 589179, 4230901; 589240, 4230894; 589274, 4230890; 589315, 4230894; 589321, 4230909; 589313, 4231179; 589015, 4231215; 589100, 4231300; 589100, 4231700; 588600, 4231600; 588440, 4231680; 588417, 4232400; 588500, 4232400; 588500, 4232500; 588600, 4232500; 588600, 4232800; 588400, 4233000; 588600, 4233300; 588700, 4233500; 589300, 4233500; 589983, 4233500; 590000, 4233500; 590100, 4233500; 590100, 4233300; 590600, 4233300; 591100, 4232800; 591138, 4232825; 591143, 4232820; 591184, 4232856; 591700, 4233200; 592513, 4233290; 592594, 4233291; 592594, 4233299; 592600, 4233300; 592600, 4233800; 592900, 4233700; 592900, 4233751; 592901, 4233751; 592900, 4233754; 592900, 4233800; 593400, 4234100; 594200, 4234100; 594300, 4234900; 594500, 4234900; 594890, 4235396; returning to 594915, 4234098;

(v) NOTE: Units 10 and 11 (Map 6) follow:



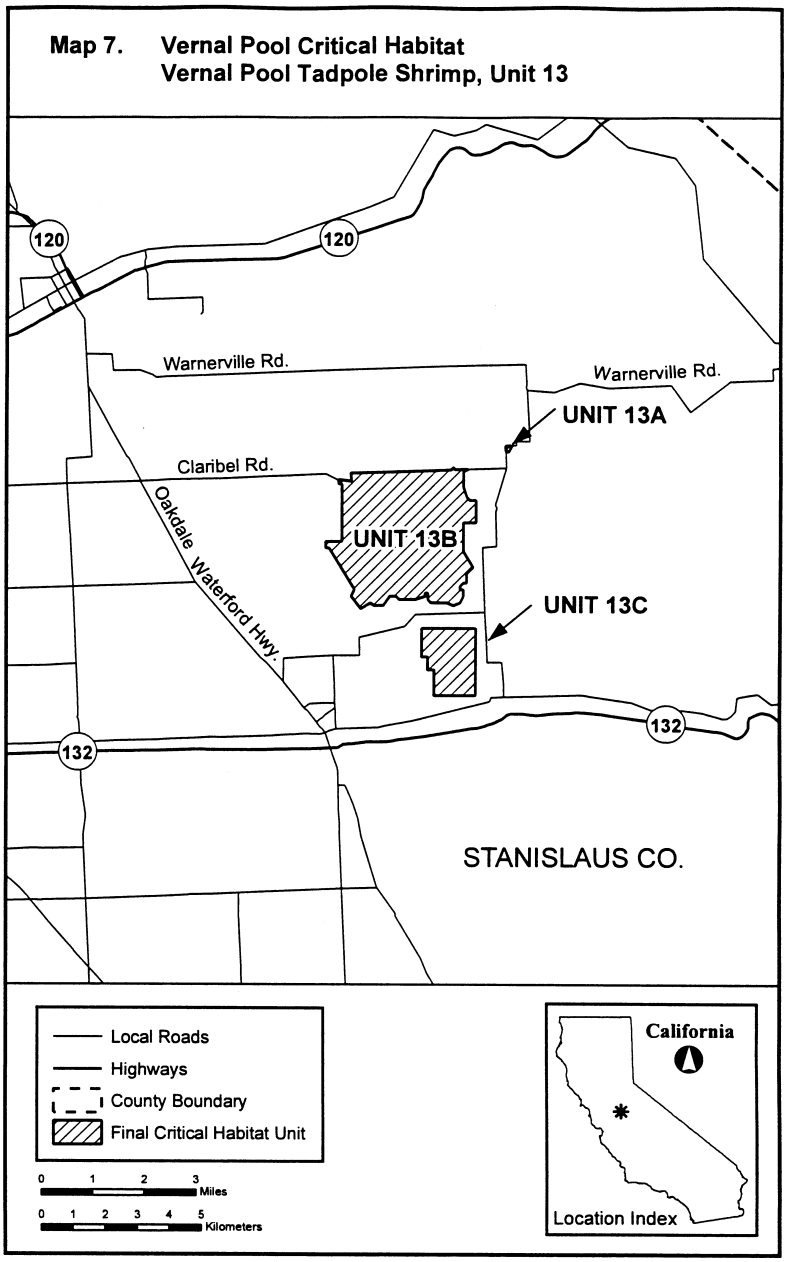
(15) Unit 13: Stanislaus County, California.

(i) Unit 13A: Stanislaus County, California. From USGS 1:24,000 scale quadrangle Paulsell. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 703100, 4177500; 703000, 4177300; 702911, 4177359; 702906, 4177503; 703100, 4177507; returning to 703100, 4177500;

(ii) Unit 13B: Stanislaus County, California. From USGS 1:24,000 scale quadrangle Paulsell and Waterford. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 701282, 4176830; 701345, 4176765; 701756, 4176778; 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; 698400, 4172400; 698100, 4172800; 698200, 4173000; 697400, 4174300; 697300, 4174300; 697300, 4174500; 697800, 4174500; 697800, 4176300; 697700, 4176300; 697700, 4176437; 698090, 4176397; 698085, 4176613; 698084, 4176642; 699300, 4176684; 700500, 4176726; 701204, 4176750; returning to 701282, 4176830;

(iii) Unit 13C: Stanislaus County, California. From USGS 1:24,000 scale quadrangle Paulsell. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 702000, 4171800; 702000, 4169800; 702000, 4169700; 701000, 4169700; 700700, 4169700; 700700, 4170400; 700700, 4170500; 700550, 4170500; 700500, 4170500; 700500, 4170533; 700500, 4170900; 700300, 4170900; 700300, 4171100; 700300, 4171800; 701200, 4171800; returning to 702000, 4171800.

(iv) NOTE: Unit 13 (Map 7) follows:



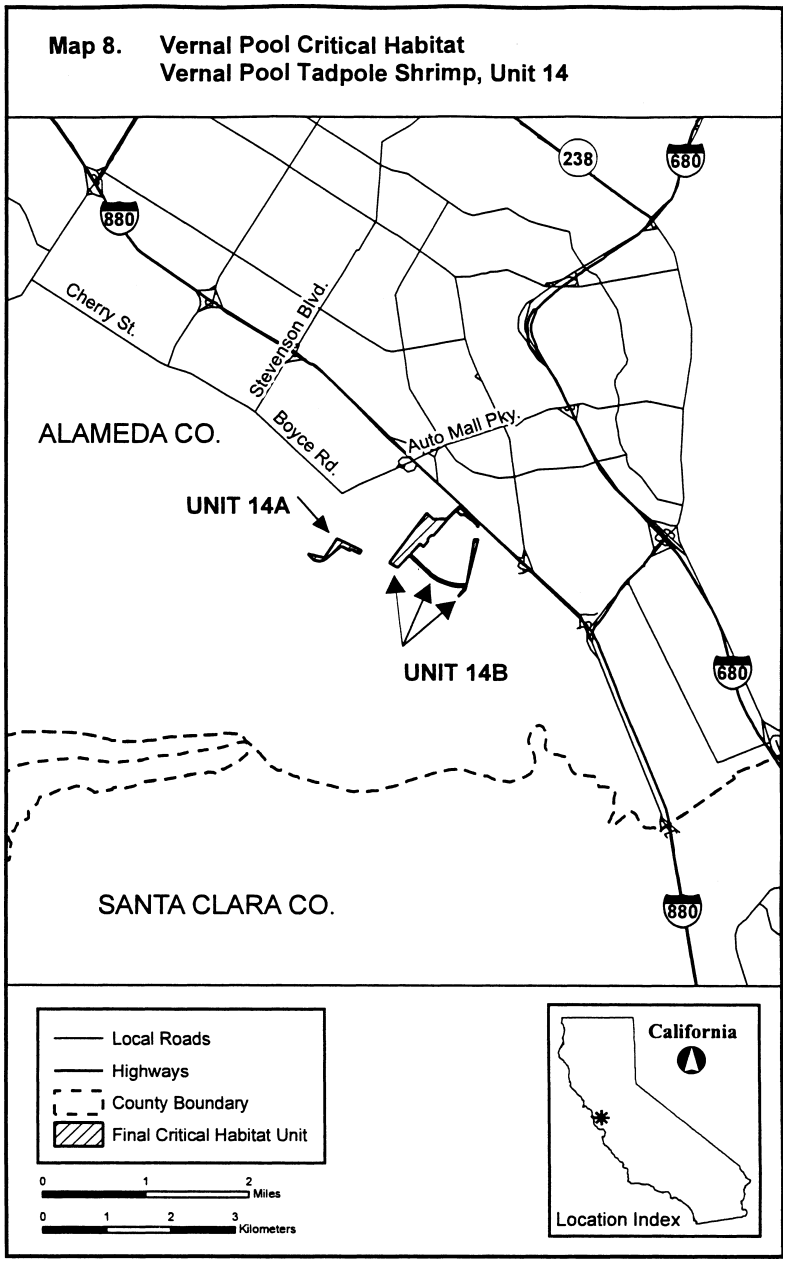
(16) Unit 14: Alameda County, California.

(i) Unit 14A: Alameda County, California. From USGS 1:24,000 scale quadrangle Milpitas. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 590100, 4150400; 590481, 4150210; 590452, 4150159; 590383, 4150201; 590320, 4150230; 590312, 4150216; 590309, 4150216; 590306, 4150215; 590303, 4150215;

590300, 4150214; 590297, 4150213; 590294, 4150212; 590291, 4150212; 590202, 4150262; 590201, 4150263; 590199, 4150264; 590197, 4150265; 590195, 4150266; 590193, 4150267; 590191, 4150267; 590189, 4150268; 590187, 4150269; 590185, 4150269; 590183, 4150269; 590180, 4150270; 590178, 4150270; 590176, 4150270; 590174, 4150270; 590172, 4150270; 590170, 4150270; 590168, 4150270; 590165, 4150270; 590163, 4150270; 590161, 4150269; 590159, 4150269; 590157, 4150269; 590155, 4150268; 590153, 4150267; 590151, 4150266; 590149, 4150266; 590147, 4150265; 590145, 4150264; 590143, 4150263; 590141, 4150262; 590140, 4150261; 590138, 4150260; 590136, 4150258; 590134, 4150257; 590133, 4150256; 589930, 4150084; 589926, 4150080; 589921, 4150076; 589916, 4150073; 589911, 4150070; 589906, 4150066; 589901, 4150064; 589896, 4150061; 589891, 4150059; 589885, 4150056; 589880, 4150054; 589874, 4150052; 589869, 4150050; 589863, 4150049; 589857, 4150048; 589852, 4150046; 589846, 4150045; 589840, 4150045; 589834, 4150044; 589829, 4150044; 589823, 4150044; 589817, 4150044; 589811, 4150044; 589805, 4150045; 589799, 4150045; 589794, 4150046; 589788, 4150047; 589782, 4150048; 589776, 4150050; 589771, 4150052; 589765, 4150053; 589760, 4150055; 589754, 4150058; 589749, 4150060; 589744, 4150063; 589739, 4150066; 589734, 4150068; 589729, 4150072; 589724, 4150075; 589719, 4150078; 589715, 4150082; 589710, 4150086; 589706, 4150090; 589702, 4150094; 589698, 4150098; 589694, 4150103; 589641, 4150165; 589900, 4150100; returning to 590100, 4150400;

(ii) Unit 14B: Alameda County, California. From USGS 1:24,000 scale quadrangle Milpitas. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 592000, 4150900; 592300, 4150600; 592300, 4150582; 592274, 4150603; 592276, 4150615; 592213, 4150675; 592195, 4150689; 592081, 4150769; 592026, 4150768; 591957, 4150835; 591831, 4150703; 591824, 4150696; 591604, 4150449; 591601, 4150449; 591598, 4150449; 591595, 4150449; 591592, 4150449; 591589, 4150448; 591586, 4150448; 591583, 4150448; 591581, 4150447; 591578, 4150446; 591575, 4150446; 591572, 4150445; 591569, 4150444; 591567, 4150443; 591564, 4150441; 591561, 4150440; 591559, 4150439; 591556, 4150437; 591554, 4150436; 591552, 4150434; 591549, 4150433; 591547, 4150431; 591545, 4150429; 591542, 4150427; 591540, 4150425; 591538, 4150423; 591536, 4150421; 591534, 4150419; 591533, 4150416; 591531, 4150414; 591529, 4150412; 591528, 4150409; 591526, 4150407; 591525, 4150404; 591523, 4150401; 591522, 4150399; 591521, 4150396; 591520, 4150393; 591519, 4150391; 591518, 4150388; 591518, 4150385; 591517, 4150382; 591516, 4150379; 591516, 4150376; 591516, 4150374; 591515, 4150371; 591515, 4150368; 591515, 4150365; 591515, 4150362; 591515, 4150359; 591516, 4150356; 591516, 4150354; 591442, 4150273; 591396, 4150319; 591243, 4150156; 591255, 4150145; 591269, 4150133; 591300, 4150104; 591331, 4150075; 591473, 4149942; 591550, 4149873; 591589, 4149840; 591620, 4149817; 591665, 4149787; 591688, 4149775; 591721, 4149761; 591777, 4149738; 591825, 4149720; 591872, 4149707; 591913, 4149697; 591958, 4149690; 592001, 4149686; 592064, 4149684; 592119, 4149689; 592237, 4150383; 592245, 4150384; 592244, 4150388; 592251, 4150389; 592252, 4150385; 592298, 4150392; 592200, 4150000; 592100, 4149600; 592000, 4149500; 591984, 4149500; 592103, 4149649; 592088, 4149647; 592058, 4149645; 592030, 4149647; 591994, 4149650; 591954, 4149655; 591886, 4149666; 591844, 4149677; 591783, 4149697; 591717, 4149723; 591651, 4149757; 591594, 4149794; 591557, 4149824; 591530, 4149850; 591453, 4149920; 591310, 4150053; 591279, 4150082; 591248, 4150110; 591235, 4150123; 591222, 4150134; 591220, 4150131; 591045, 4149947; 590916, 4150021; 591500, 4150800; 591600, 4150700; 591800, 4150700; returning to 592000, 4150900;

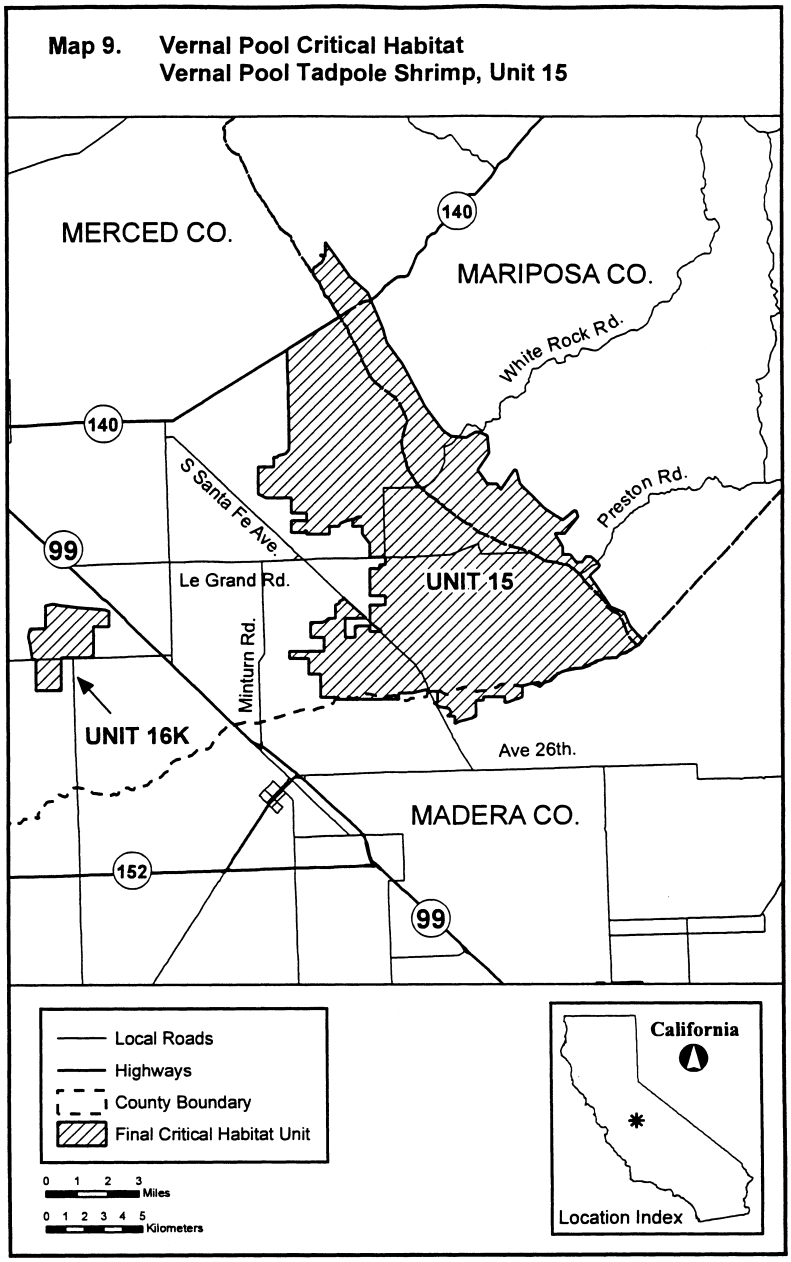
(iii) NOTE: Unit 14 (Map 8) follows:



(17) Unit 15: Merced, Madera, and Mariposa Counties, California. From USGS 1:24,000 scale quadrangle Raynor Creek, Le Grand, and Plainsburg. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 747003, 4125902; 747142, 4125971; 747303, 4125987; 747358, 4126000; 747200, 4126000; 747142, 4125971; 747123, 4125969; 747070, 4125950; 747003,

4125902; 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; 743600, 4127000; 742700, 4127000; 742400, 4127000; 742000, 4127200; 742000, 4128600; 742800, 4128600; 742800, 4129100; 742900, 4129100; 743000, 4129100; 743000, 4129200; 743400, 4129300; 743600, 4129500; 743600, 4130284; 743605, 4130284; 743600, 4130493; 743600, 4130700; 743595, 4130700; 743561, 4132097; 743560, 4132170; 743556, 4132335; 743549, 4132692; 743537, 4133202; 743529, 4133301; 743531, 4133352; 743530, 4133400; 743523, 4133729; 743518, 4134016; 743515, 4134159; 743509, 4134382; 743500, 4134708; 743504, 4134743; 743565, 4134782; 744447, 4135329; 746234, 4136439; 746230, 4136445; 745985, 4136865; 745952, 4136931; 745915, 4136978; 745914, 4136987; 745902, 4137008; 745748, 4137298; 745669, 4137403; 745620, 4137437; 745503, 4137487; 745203, 4138201; 744984, 4138471; 744895, 4138606; 744893, 4138653; 744892, 4138670; 744854, 4138756; 744852, 4138807; 744873, 4138873; 744890, 4138973; 744922, 4139007; 745038, 4139064; 745171, 4139174; 745299, 4139239; 745334, 4139300; 745338, 4139306; 745339, 4139307; 745400, 4139400; 745432, 4139432; 745432, 4139432; 745368, 4139567; 745324, 4139603; 745219, 4139621; 745269, 4139653; 745281, 4139676; 745422, 4139619; 745490, 4139575; 745500, 4139576; 745500, 4139600; 745500, 4140300; 746100, 4139500; 746800, 4138500; 747700, 4137700; 748500, 4135800; 748700, 4135100; 749500, 4134000; 749501, 4133999; 750173, 4132710; 750700, 4131700; 751600, 4130500; 752000, 4130200; 752094, 4130188; 752157, 4130180; 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; 757800, 4124400; 757800, 4124000; 758200, 4124000; 758500, 4123600; 758800, 4123600; 759000, 4123900; 759300, 4123900; 759700, 4123500; 759700, 4123400; 759200, 4122900; 760300, 4121300; 761000, 4121000; 761300, 4120300; 761955, 4119563; 761968, 4119549; 761718, 4119265; 761701, 4119258; 761698, 4119256; 761644, 4119235; 761519, 4119174; 761497, 4119158; 761476, 4119142; 761412, 4119094; 761355, 4119052; 761244, 4118969; 761107, 4118894; 760858, 4118839; 760750, 4118755; 760594, 4118634; 760278, 4118609; 760228, 4118605; 760119, 4118597; 760084, 4118594; 760084, 4118594; 760008, 4118588; 759742, 4118512; 759529, 4118452; 759375, 4118358; 759330, 4118326; 759173, 4118214; 758783, 4118084; 758541, 4118070; 758036, 4117982; 757933, 4117964; 757910, 4117955; 757910, 4117955; 757811, 4117918; 757808, 4117917; 757797, 4117914; 757694, 4117865; 757622, 4117811; 757620, 4117809; 757616, 4117808; 757591, 4117800; 757532, 4117781; 757485, 4117741; 757476, 4117726; 757475, 4117726; 757450, 4117700; 757411, 4117661; 757378, 4117627; 757377, 4117626; 757352, 4117600; 757350, 4117598; 757221, 4117467; 757182, 4117433; 757117, 4117417; 757086, 4117410; 757047, 4117400; 756985, 4117385; 756917, 4117369; 756872, 4117341; 756823, 4117300; 756785, 4117267; 756759, 4117243; 756745, 4117231; 756634, 4117128; 756624, 4117124; 756592, 4117112; 756590, 4117110; 756590, 4117110; 756500, 4117200; 756223, 4117292; 756200, 4117300; 755800, 4117200; 755700, 4117200; 755700, 4117160; 755700, 4116700; 755700, 4116600; 755500, 4116500; 755400, 4116500; 754900, 4116300; 754800, 4116300; 754800, 4116600; 753700, 4116600; 753700, 4116400; 753300, 4116400; 753300, 4115600; 753100, 4115500; 752700, 4115400; 752400, 4115300; 752200, 4115200; 752200, 4115600; 751800, 4115600; 752000, 4115800; 751900, 4116000; 751400, 4116100; 751100, 4116300; 751300, 4116300; 751300, 4116900; 751100, 4116900; 750815, 4116900; 750800, 4116900; 750700, 4117000; 750000, 4116800; 749300, 4116800; 749300, 4116611; 749300, 4116500; 746800, 4116500; 746000, 4116500; 746000, 4116520; 746000, 4116600; 745200, 4116600; 745200, 4117800; 744600, 4117800; 744600, 4118600; 743600, 4118600; 743600, 4119000; 745400, 4119000; 745400, 4119700; 744700, 4119700; 744700, 4120500; 745300, 4120500; 745500, 4120600; 745600, 4120700; 746000, 4120700; 746000, 4121400; 746200, 4121500; 746200, 4121600; 746400, 4121700; 746400, 4121800; 747600, 4120700; 746500, 4120700; 746500, 4119700; 747000, 4119700; 747000, 4120300; 747800, 4120300; 747800, 4120000; 748400, 4120000; 747800, 4120500; 747800, 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, 4125763; 746902, 4125767; 746921, 4125818; 746971, 4125871; 746997, 4125897; returning to 747003, 4125902; excluding 757175, 4117475; 757117, 4117435; 757138, 4117438; 757146, 4117439; 757245, 4117516; 757255, 4117530; returning to 757175, 4117475.

(18) NOTE: Unit 15 (Map 9) follows:



(19) Unit 16: Merced County, California.

(i) Unit 16A: Merced County, California. From USGS 1:24,000 scale quadrangle Stevinson, Gustine, and San Luis Ranch. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 688300, 4129000; 688600, 4128800; 689100, 4128900; 689200, 4128800; 689400, 4128600; 689800, 4128500; 689900, 4128300;

690200, 4128300; 690400, 4128200; 690500, 4128000; 690600, 4125500; 692700, 4125500; 693200, 4125000; 693100, 4124800; 693100, 4124400; 693300, 4123700; 693600, 4123400; 693800, 4123000; 694000, 4122900; 694079, 4122821; 694035, 4122790; 692453, 4121671; 692300, 4121900; 692200, 4122000; 692200, 4122500; 692100, 4122700; 691800, 4122800; 691400, 4122800; 691261, 4123079; 691262, 4123097; 691263, 4123113; 691267, 4123155; 691273, 4123198; 691267, 4123238; 691248, 4123272; 691217, 4123291; 691200, 4123294; 691200, 4123500; 691110, 4123679; 691126, 4123677; 691149, 4123682; 691156, 4123694; 691166, 4123718; 691177, 4123739; 691191, 4123771; 691193, 4123793; 691200, 4123800; 691195, 4123810; 691201, 4123850; 691215, 4123892; 691220, 4123942; 691214, 4123980; 691192, 4124020; 691171, 4124049; 691150, 4124072; 691127, 4124089; 691099, 4124095; 691071, 4124095; 691055, 4124090; 690900, 4124400; 690559, 4124400; 690559, 4124402; 690569, 4124417; 690582, 4124427; 690582, 4124447; 690576, 4124466; 690563, 4124483; 690546, 4124493; 690525, 4124502; 690523, 4124502; 690523, 4124519; 690500, 4124524; 690475, 4124530; 690469, 4124538; 690445, 4124570; 690388, 4124590; 690353, 4124592; 690180, 4124650; 690127, 4124689; 690083, 4124695; 690025, 4124783; 690020, 4124854; 689996, 4124900; 689988, 4125006; 689952, 4125056; 689912, 4125095; 689856, 4125119; 689819, 4125184; 689788, 4125210; 689747, 4125229; 689700, 4125300; 689658, 4125595; 689665, 4125595; 689672, 4125603; 689645, 4125757; 689630, 4125793; 689600, 4126000; 689700, 4126200; 689600, 4126600; 689400, 4126600; 689275, 4126538; 689239, 4126581; 689188, 4126664; 689134, 4126678; 689121, 4126682; 689069, 4126728; 689067, 4126852; 689020, 4126961; 688990, 4126993; 688911, 4126978; 688903, 4126995; 688913, 4127006; 689100, 4127100; 689024, 4127195; 689025, 4127207; 688949, 4127292; 688931, 4127324; 688922, 4127322; 688854, 4127407; 688823, 4127454; 688780, 4127503; 688735, 4127581; 688723, 4127621; 688696, 4127650; 688684, 4128244; 688193, 4128235; 688100, 4128700; returning to 688300, 4129000;

(ii) Unit 16B: Merced County, California. From USGS 1:24,000 scale quadrangle Stevinson and San Luis Ranch. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 695400, 4125600; 695500, 4122000; 694900, 4122400; 694700, 4122700; 694500, 4122900; 694500, 4123100; 694100, 4123400; 693800, 4123500; 693800, 4123800; 693500, 4123900; 693500, 4124500; 693700, 4124700; 693800, 4125000; 693600, 4125200; 693400, 4125300; 693122, 4125670; 693100, 4125700; 693146, 4125746; 693200, 4125800; 693700, 4125900; 693700, 4127300; 693800, 4127300; 693900, 4127000; 694200, 4126900; 694600, 4126400; 694600, 4126200; 694700, 4126000; 695179, 4125726; returning to 695400, 4125600;

(iii) Unit 16C: Merced County, California. From USGS 1:24,000 scale quadrangle Arena, Stevinson, Turner Ranch, and San Luis Ranch. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 699300, 4126300; 699300, 4125400; 700100, 4125400; 700200, 4126000; 700600, 4125700; 701100, 4125300; 701100, 4124300; 700300, 4124300; 700300, 4123800; 700500, 4123800; 700600, 4123500; 701100, 4123400; 701200, 4123200; 701400, 4123100; 701600, 4122700; 701900, 4122500; 702600, 4122200; 702870, 4121705; 703200, 4121100; 703900, 4120500; 704600, 4119800; 704600, 4119800; 704700, 4119700; 698900, 4119600; 698800, 4119700; 698543, 4119957; 698558, 4119970; 698501, 4120012; 698504, 4120069; 698626, 4120197; 698662, 4120077; 698694, 4120113; 698668, 4121116; 698663, 4121510; 698594, 4121508; 698600, 4121600; 699900, 4121600; 700000, 4120400; 700200, 4120400; 700200, 4122700; 697000, 4122600; 696900, 4125100; 697700, 4125100; 697700, 4125300; 697600, 4125400; 697700, 4125600; 698000, 4125700; 698200, 4125800; 698300, 4126100; 698700, 4126500; 699500, 4126500; 699600, 4126300; returning to 699300, 4126300;

(iv) Unit 16D: Merced County, California. From USGS 1:24,000 scale quadrangle Arena and Turner Ranch. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 706700, 4122100; 706800, 4120900; 706700, 4120500; 706700, 4119700; 708100, 4119700; 708100, 4119600; 708000, 4119500; 707900, 4119200; 707900, 4119000; 708000, 4118900; 708300, 4118900; 708300, 4118100; 707900, 4118100; 707500, 4118500; 706500, 4118500; 706000, 4118900; 705600, 4119300; 705200, 4119700; 704800, 4120000; 704700, 4120100; 704700, 4120400; 705100, 4120400; 705100, 4120600; 704900, 4120700; 704900, 4120800; 705100, 4120800; 704900, 4121000; 705000, 4121100; 705100, 4121700; 705200, 4121700; 705300, 4122000; 705700, 4122100; 705700, 4122200; 705400, 4122300; 705300, 4122400; 705500, 4122600; 705400, 4122600; 705300, 4122500; 705200, 4122500; 705100, 4122500; 704900, 4122500; 704900, 4122700; 704800, 4122800; 704500, 4122800; 704300, 4122900; 704000, 4122800; 703900, 4122900; 703400, 4124400; 703300, 4124600; 701300, 4126500; 700100, 4127600; 700467, 4129067; 700500, 4129200; 700500, 4130600; 701000, 4130600; 701000, 4130100; 701100, 4129800; 701200, 4129800; 701100, 4130100; 701100, 4130600; 701700, 4130600; 701700, 4129200; 701800, 4129200; 702800, 4129200; 703000, 4128800; 703300, 4128800; 703900, 4128800; 703900, 4129000; 704200, 4129000; 704200, 4128500; 703300, 4128400; 703400, 4128300; 703400, 4127900; 703500, 4127800; 703800, 4127500; 703700, 4127300; 703500, 4127300; 703400, 4127100; 703400, 4126100; 703500, 4126100; 704400, 4126100; 704300, 4126000; 704400, 4125900; 704500, 4125300; 704500, 4124800; 705000, 4124800; 705000, 4125300; 705700, 4125300; 705700, 4124900; 706600, 4125000; 706700, 4123700; returning to 706700, 4122100;

(v) Unit 16E: Merced County, California. From USGS 1:24,000 scale quadrangle Sandy Mush and Turner Ranch. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 706700, 4122100; 711500, 4122200; 711500, 4121700; 711500, 4121200; 709900, 4121300; 709900, 4121900; 709800, 4121900; 709800, 4121800; 709700, 4121500; 709500, 4121500; 709300, 4121600; 708800, 4121400; 708700, 4121300; 706800, 4121300; returning to 706700, 4122100;

(vi) Unit 16F: Merced County, California. From USGS 1:24,000 scale quadrangle Sandy Mush and Turner Ranch. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 711200, 4120500; 711400, 4120400; 711500, 4120500; 711600, 4119600; 711900, 4119600; 711900, 4119400; 712100, 4119300; 712300, 4119300; 712300, 4119200; 712600, 4119200; 712800, 4118800; 711600, 4118700; 711600, 4118500; 711400, 4118500;

711300, 4118400; 711100, 4118100; 709900, 4118100; 709900, 4118800; 709900, 4119000; 709700, 4119000; 709700, 4119600; 710300, 4119600; 710300, 4119900; 710700, 4119900; 710700, 4120000; 710600, 4120000; 710600, 4120100; 710700, 4120200; 710600, 4120300; 710700, 4120400; 710700, 4120500; 710900, 4120400; 711100, 4120400; returning to 711200, 4120500;

(vii) Unit 16G: Merced County, California. From USGS 1:24,000 scale quadrangle Sandy Mush. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 714600, 4115000; 713300, 4115000; 713100, 4115300; 713300, 4115300; 713800, 4115400; 713800, 4116600; 715400, 4116600; 715500, 4116500; 715500, 4115818; 714600, 4115800; returning to 714600, 4115000;

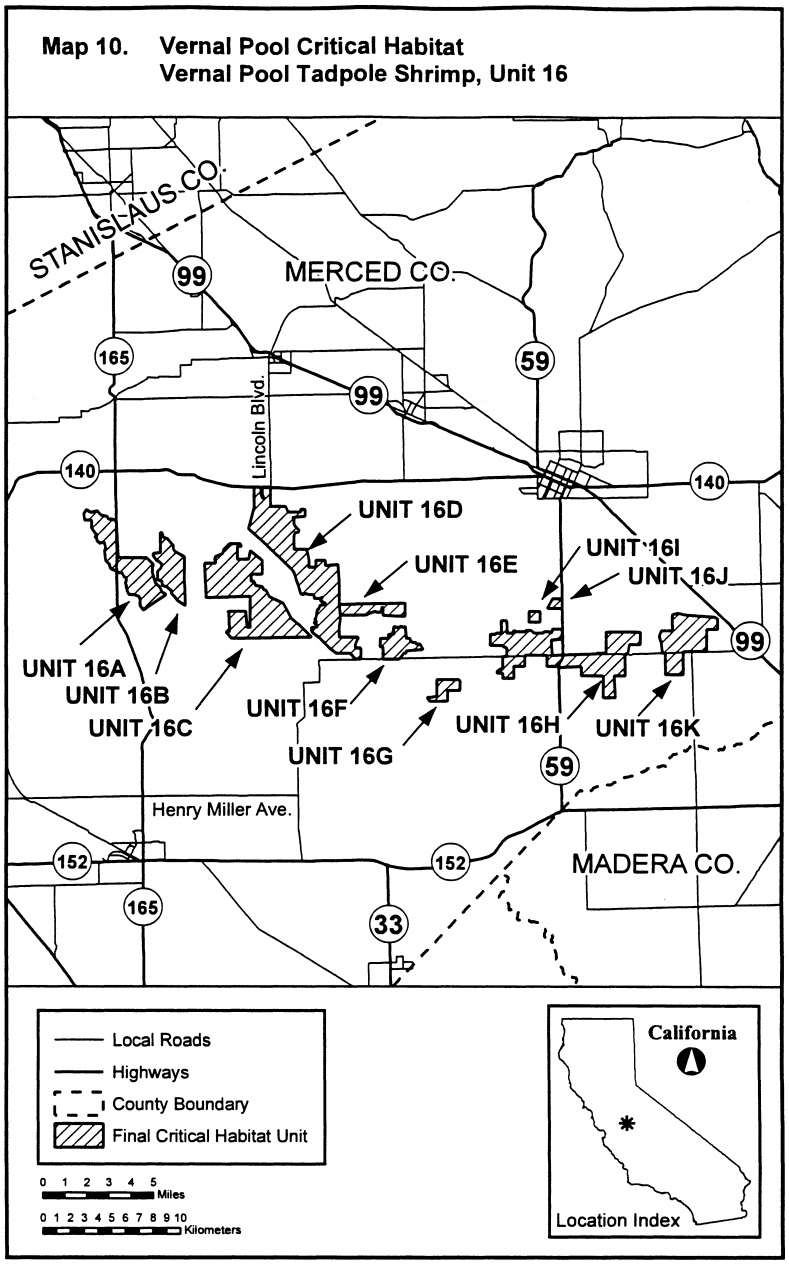
(viii) Unit 16H: Merced County, California. From USGS 1:24,000 scale quadrangle El Nido and Sandy Mush. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 718900, 4120900; 718900, 4120000; 719300, 4120000; 719400, 4120200; 719600, 4120100; 720200, 4120100; 720300, 4120200; 720700, 4120200; 720900, 4120000; 721500, 4120000; 721600, 4120100; 722000, 4120100; 722100, 4120000; 722200, 4120200; 722200, 4120300; 722900, 4120300; 722900, 4119600; 722100, 4119500; 722200, 4118400; 725400, 4118500; 725400, 4118578; 726100, 4118600; 726100, 4120100; 728600, 4120100; 728600, 4119200; 727800, 4119200; 727700, 4118600; 727600, 4118500; 727500, 4118500; 727500, 4118400; 727500, 4116900; 726800, 4116900; 726700, 4116900; 726800, 4115300; 725900, 4115300; 725900, 4116900; 724300, 4116900; 724300, 4117600; 722694, 4117506; 722600, 4117600; 721800, 4117600; 721800, 4118400; 720200, 4118400; 720200, 4117600; 719400, 4117600; 719400, 4116700; 718600, 4116700; 718600, 4117100; 718200, 4117100; 718200, 4117200; 718300, 4117300; 718400, 4117400; 718600, 4117400; 718600, 4117500; 718600, 4118291; 718900, 4118300; 718900, 4118900; 718800, 4119000; 718700, 4119000; 718600, 4119100; 717700, 4119100; 717700, 4119900; 718100, 4119900; 718100, 4119950; 718100, 4120000; 718500, 4120000; 718500, 4120900; returning to 718900, 4120900;

(ix) Unit 16I: Merced County, California. From USGS 1:24,000 scale quadrangle Sandy Mush. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 721300, 4120800; 720500, 4120800; 720500, 4121600; 721300, 4121600; 721300, 4121200; returning to 721300, 4120800;

(x) Unit 16J: Merced County, California. From USGS 1:24,000 scale quadrangle El Nido. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 722900, 4121800; 721800, 4121800; 722200, 4122500; 722900, 4122500; returning to 722900, 4121800;

(xi) Unit 16K: Merced County, California. From USGS 1:24,000 scale quadrangle Plainsburg and El Nido. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 731700, 4117000; 730400, 4117000; 730400, 4118600; 730200, 4118600; 730100, 4119300; 730000, 4119700; 730000, 4119900; 730100, 4120200; 730900, 4120200; 730900, 4121400; 731300, 4121500; 731800, 4121400; 732700, 4121300; 734000, 4121200; 734200, 4121100; 734200, 4120300; 733400, 4120300; 733400, 4118700; 731700, 4118700; returning to 731700, 4117000;

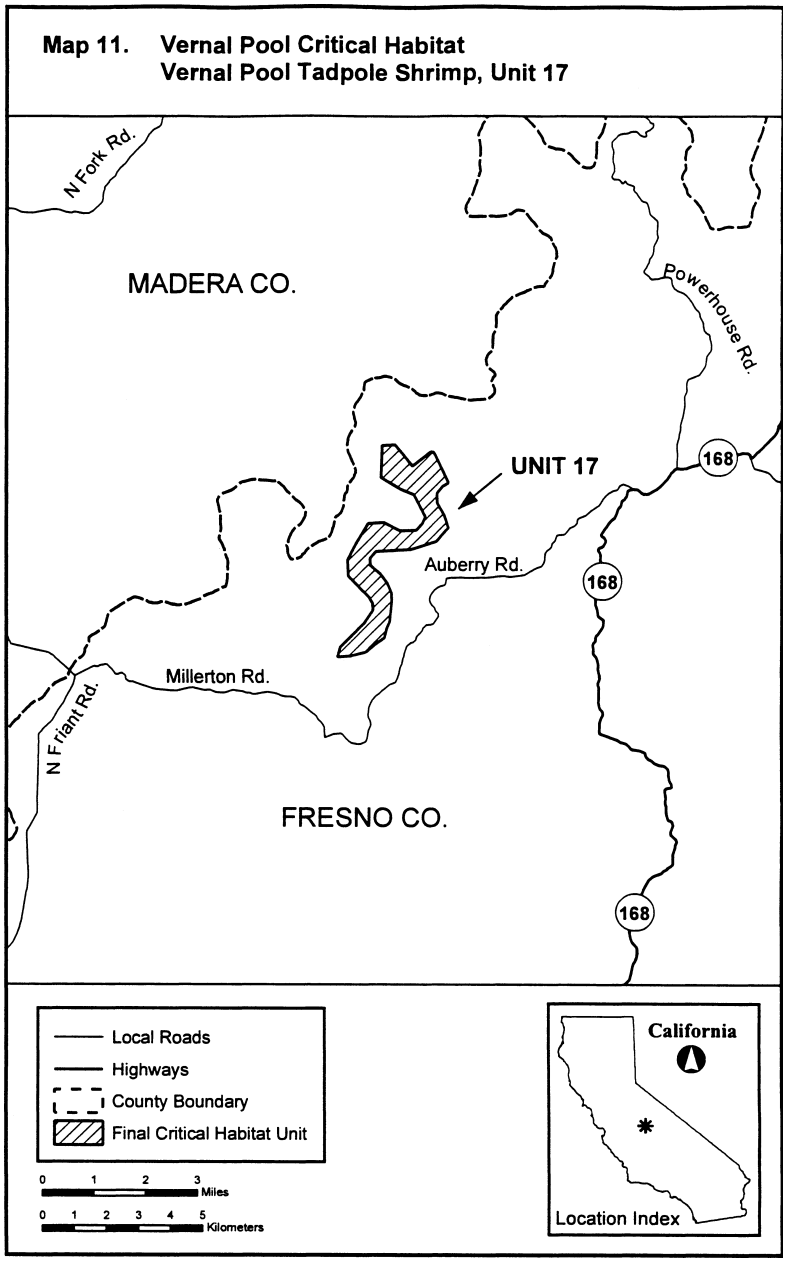
(xii) NOTE: Unit 16 (Map 10) follows:



(20) Unit 17, Fresno County, California. From USGS 1:24,000 scale quadrangle Millerton Lake East and Academy. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 802663, 4106066; 803207, 4105399; 803781, 4105836; 803880, 4105842; 804343, 4104869; 804150, 4104757; 803962, 4104544; 803981, 4104245; 804206, 4103858; 804331, 4103465; 804238,

4103359; 803957, 4103040; 803171, 4102790; 802073, 4102721; 801886, 4102509; 801898, 4102309; 802217, 4102028; 802435, 4101741; 802554, 4101448; 802573, 4101149; 802511, 4100543; 802424, 4100337; 802343, 4100031; 802056, 4099812; 801769, 4099594; 801276, 4099463; 800877, 4099437; 800958, 4099743; 801712, 4100492; 801987, 4100911; 801974, 4101110; 801862, 4101304; 801218, 4101965; 801187, 4102464; 801455, 4102983; 801816, 4103607; 802316, 4103638; 802834, 4103370; 803333, 4103402; 803520, 4103614; 803607, 4103820; 803264, 4104500; 802852, 4104675; 802227, 4105036; 802264, 4106041; 802663, 4106066.

(21) NOTE: Unit 17 (Map 11) follows:



(22) Unit 18: Tulare and Kings Counties, California.

(i) Unit 18A: Tulare and Kings Counties, California. From USGS 1:24,000 scale quadrangle Monson, Traver, Burris Park, and Remnoy. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 828797, 4041134; 828810, 4040935; 829509, 4040978;

829634, 4040585; 829709, 4039386; 830449, 4039621; 830453, 4039463; 830420, 4039230; 829721, 4039186; 829521, 4039174; 829509, 4039374; 828304, 4039399; 828279, 4039798; 827580, 4039755; 827605, 4039355; 827205, 4039330; 827280, 4038132; 826381, 4038076; 826400, 4037776; 825601, 4037726; 825582, 4038026; 824877, 4038082; 824895, 4037782; 822892, 4037758; 822929, 4037159; 821031, 4037041; 821075, 4036342; 820575, 4036310; 820606, 4035811; 820207, 4035786; 820157, 4034981; 820200, 4034282; 818203, 4034157; 818222, 4033858; 817135, 4033589; 816842, 4033471; 816667, 4033059; 816274, 4032935; 816181, 4032934; 814570, 4032928; 813902, 4032386; 813727, 4031974; 813565, 4031362; 813284, 4031044; 812996, 4030826; 812891, 4032523; 813790, 4032579; 814252, 4033209; 814539, 4033428; 814851, 4034164; 814889, 4034252; 815581, 4034395; 816256, 4034838; 817560, 4034819; 816992, 4035886; 818490, 4035980; 819364, 4036436; 819770, 4036360; 820900, 4037534; 821693, 4037683; 822542, 4038539; 824646, 4038569; 824846, 4038582; 826344, 4038675; 826313, 4039175; 825507, 4039225; 825445, 4040223; 827043, 4040323; 827100, 4041028; returning to 828797, 4041134;

(ii) Unit 18B: Tulare County, California. From USGS 1:24,000 scale quadrangle Monson. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 831257, 4040285; 831281, 4039895; 831228, 4039894; 831226, 4040265; 830457, 4040256; 830452, 4040335; returning to 831257, 4040285;

(iii) Unit 18C: Tulare County, California. From USGS 1:24,000 scale quadrangle Monson. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 832081, 4039935; 832106, 4039535; 832038, 4039531; 831991, 4039595; 831752, 4039679; 831748, 4039853; 832035, 4039864; 832031, 4039913; 831542, 4039901; 832081, 4039935; returning to 832081, 4039935;

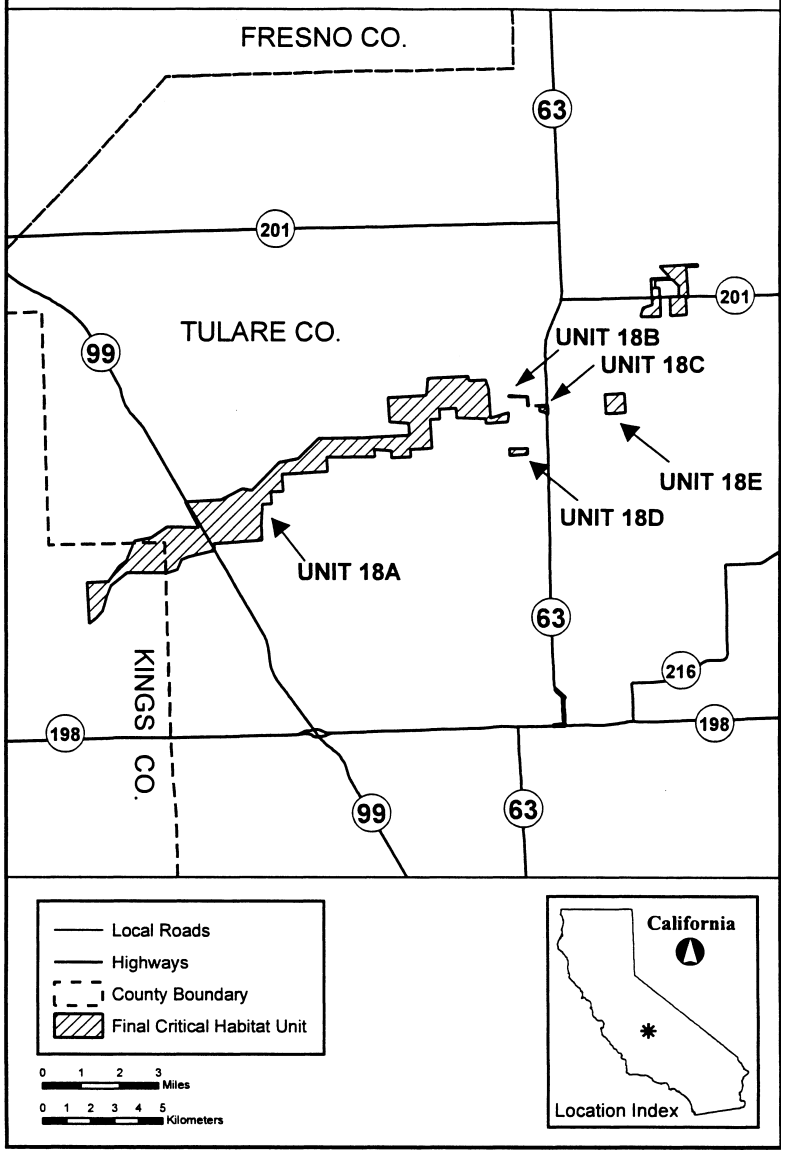
(iv) Unit 18D: Tulare County, California. From USGS 1:24,000 scale quadrangle Monson. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 831258, 4037878; 830508, 4037831; 830507, 4037837; 830510, 4037837; 830495, 4038113; 830867, 4038116; 831249, 4038123; returning to 831258, 4037878;

(v) Unit 18E: Tulare County, California. From USGS 1:24,000 scale quadrangle Monson. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E, N): 835309, 4039635; 834510, 4039585; 834460, 4040384; 835259, 4040434; returning to 835309, 4039635;

(vi) Unit 18F: Tulare County, California. From USGS 1:24,000 scale quadrangle Ivanhoe. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 837863, 4043705; 837178, 4043663; 837165, 4044455; 837527, 4044471; 837510, 4044925; 837253, 4045186; 836546, 4045165; 836550, 4044829; 836726, 4044828; 836732, 4044453; 836753, 4044453; 836777, 4043638; 836764, 4043637; 836765, 4043628; 835983, 4043614; 835959, 4043687; 836040, 4043993; 836433, 4044117; 836365, 4045216; 837164, 4045266; 836733, 4045741; 838331, 4045841; 838338, 4045740; 837838, 4045710; 837919, 4044411; 837819, 4044405; returning to 837863, 4043705;

(vii) NOTE: Unit 18 (Map 12) follows:

Map 12. Vernal Pool Critical Habitat
Vernal Pool Tadpole Shrimp, Unit 18



(i) *Insects.*

COMAL SPRINGS DRYOPID BEETLE (*Stygoparnus comalensis*).

(1) Critical habitat units are depicted for Comal and Hays Counties, Texas, on the maps below.

(2) The primary constituent elements of critical habitat for the Comal Springs dryopid beetle are:

(i) High-quality water with no or minimal levels of pollutants, such as soaps and detergents (Brown 1987, p. 261) and other compounds containing surfactants, heavy metals, pesticides, fertilizer nutrients, petroleum hydrocarbons, pharmaceuticals and veterinary medicines, and semi-volatile compounds, such as industrial cleaning agents, and including:

(A) Low salinity with total dissolved solids that generally range from 307 to 368 mg/L; and

(B) Low turbidity that generally is less than 5 nephelometric turbidity units;

(ii) Aquifer water temperatures that range from approximately 68 to 75 °F (20 to 24 °C);

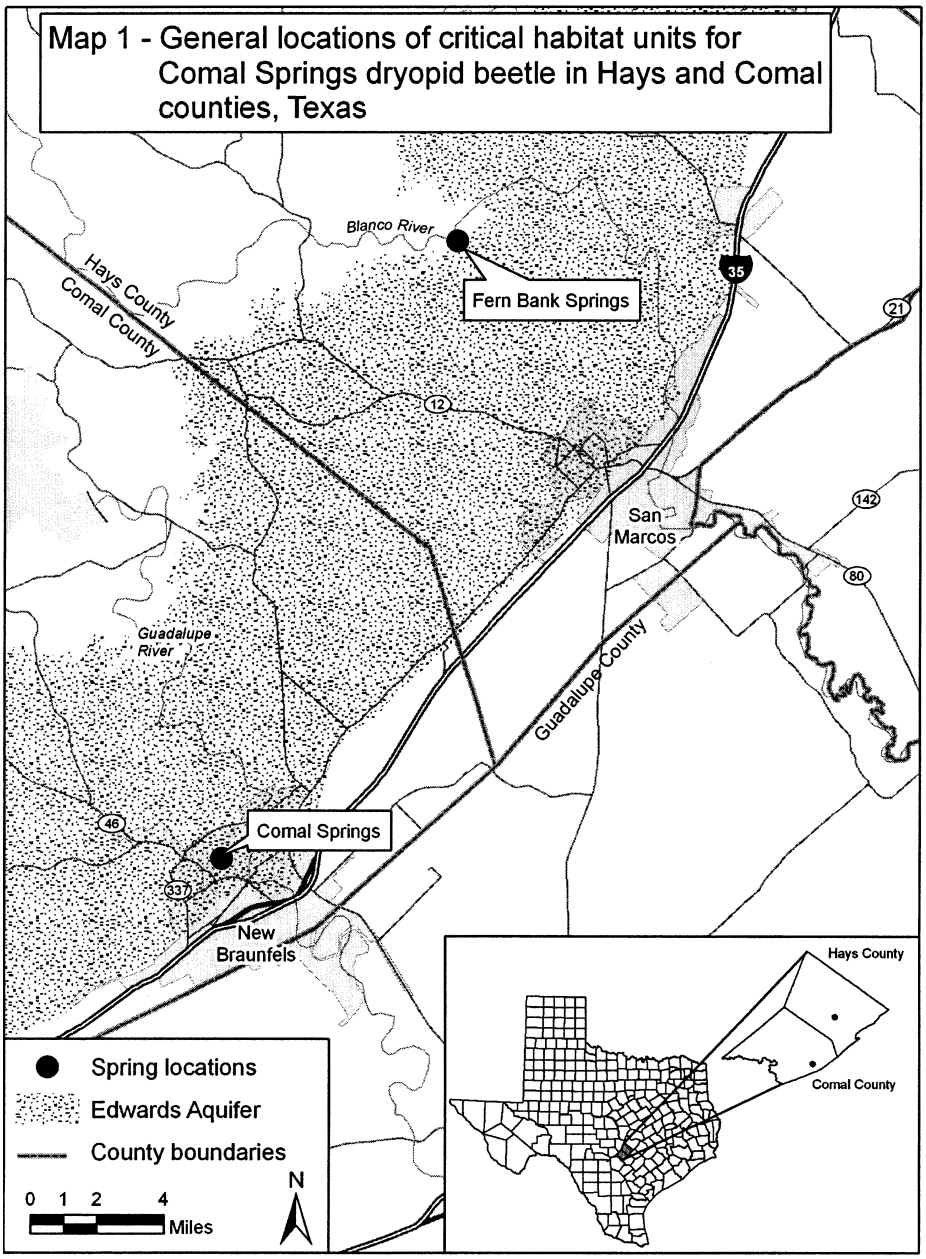
(iii) A hydrologic regime that allows for adequate spring flows that provide levels of dissolved oxygen in the approximate range of 4.0 to 10.0 mg/L for respiration of the Comal Springs dryopid beetle; and

(iv) Food supply that includes detritus (decomposed materials), leaf litter, living plant material, algae, fungi, bacteria and other microorganisms, and decaying roots.

(3) Critical habitat does not include manmade structures (such as buildings, aqueducts, roads, and other paved areas) and the land on which they are located existing with the legal boundaries on the effective date of this rule. Where lakes are designated, critical habitat is only designated for areas where springs occur and does not include areas of the lake bottom beyond a radius of 50 ft (15.2 m) from the spring outlet.

(4) *Critical habitat map units.* Data layers defining map units were created by using ArcGIS. All coordinates are UTM zone 14 coordinate pairs, referenced to North American Horizontal Datum 1983. Coordinates were derived from 2004 digital orthophotographs. All acreage and mileage calculations were performed using GIS.

(5) Note: Index map of the critical habitat units for Comal Springs dryopid beetle (Map 1) follows:

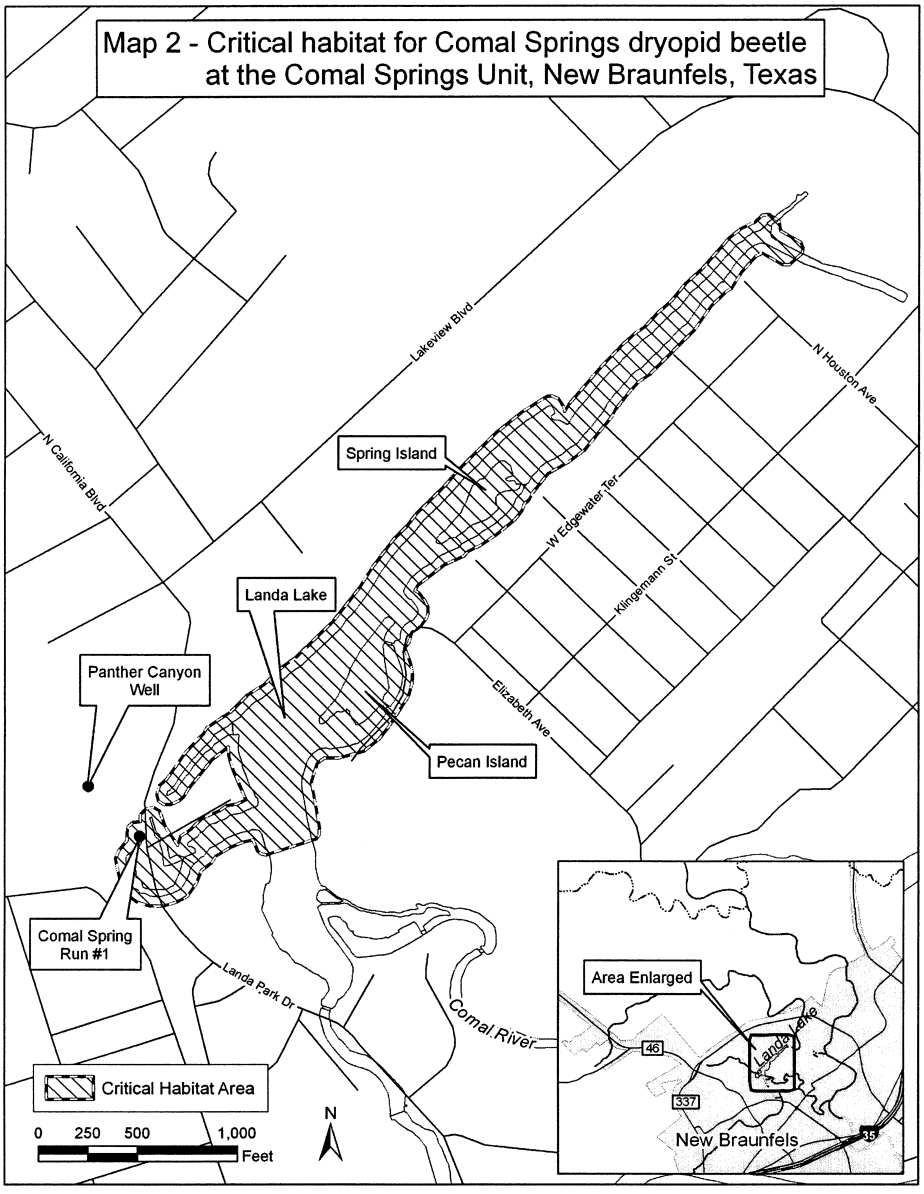


(6) Comal Springs Unit, Comal County, Texas.

(i) Aquatic habitat areas bounded by the UTM Zone 14 NAD 83 coordinates (meters E, meters N): 583387, 3287251; 583392, 3287264; 583405, 3287280; 583404, 3287290; 583407, 3287301; 583414, 3287307; 583425, 3287308; 583425, 3287320; 583433, 3287328; 583444, 3287330; 583454, 3287325;

583463, 3287301; 583482, 3287272; 583486, 3287286; 583501, 3287296; 583520, 3287314; 583547, 3287326; 583557, 3287333; 583572, 3287335; 583586, 3287342; 583567, 3287387; 583560, 3287408; 583559, 3287423; 583534, 3287403; 583499, 3287359; 583491, 3287347; 583484, 3287340; 583471, 3287334; 583461, 3287334; 583452, 3287340; 583450, 3287350; 583454, 3287364; 583465, 3287374; 583494, 3287415; 583521, 3287443; 583526, 3287453; 583563, 3287477; 583589, 3287503; 583613, 3287519; 583643, 3287547; 583662, 3287561; 583719, 3287617; 583759, 3287669; 583780, 3287701; 583811, 3287743; 583833, 3287764; 583848, 3287784; 583892, 3287826; 583911, 3287850; 583970, 3287907; 584008, 3287938; 584047, 3287963; 584055, 3287964; 584065, 3287960; 584073, 3287948; 584074, 3287941; 584081, 3287952; 584131, 3288011; 584164, 3288044; 584183, 3288062; 584197, 3288071; 584216, 3288093; 584236, 3288110; 584258, 3288138; 584284, 3288161; 584325, 3288209; 584343, 3288223; 584364, 3288233; 584375, 3288243; 584386, 3288244; 584401, 3288234; 584403, 3288218; 584433, 3288201; 584437, 3288193; 584436, 3288184; 584416, 3288167; 584405, 3288167; 584375, 3288184; 584365, 3288180; 584344, 3288156; 584329, 3288131; 584320, 3288125; 584298, 3288103; 584273, 3288067; 584204, 3287997; 584187, 3287985; 584176, 3287973; 584152, 3287943; 584147, 3287933; 584105, 3287880; 584080, 3287862; 584049, 3287844; 584026, 3287815; 584021, 3287805; 584013, 3287798; 584009, 3287787; 583999, 3287775; 583971, 3287751; 583947, 3287735; 583927, 3287725; 583920, 3287718; 583890, 3287704; 583850, 3287673; 583845, 3287665; 583851, 3287662; 583860, 3287650; 583865, 3287640; 583865, 3287629; 583863, 3287622; 583854, 3287609; 583840, 3287600; 583836, 3287584; 583829, 3287576; 583838, 3287552; 583841, 3287535; 583841, 3287520; 583835, 3287501; 583804, 3287452; 583790, 3287435; 583766, 3287416; 583727, 3287406; 583706, 3287406; 583695, 3287398; 583686, 3287370; 583699, 3287298; 583698, 3287288; 583694, 3287282; 583617, 3287257; 583610, 3287258; 583605, 3287262; 583597, 3287280; 583584, 3287277; 583565, 3287270; 583541, 3287255; 583534, 3287244; 583518, 3287233; 583510, 3287211; 583496, 3287192; 583480, 3287183; 583459, 3287177; 583436, 3287178; 583419, 3287184; 583400, 3287198; 583396, 3287205; 583387, 3287251.

(ii) Note: Comal Springs Unit (Map 2) follows:

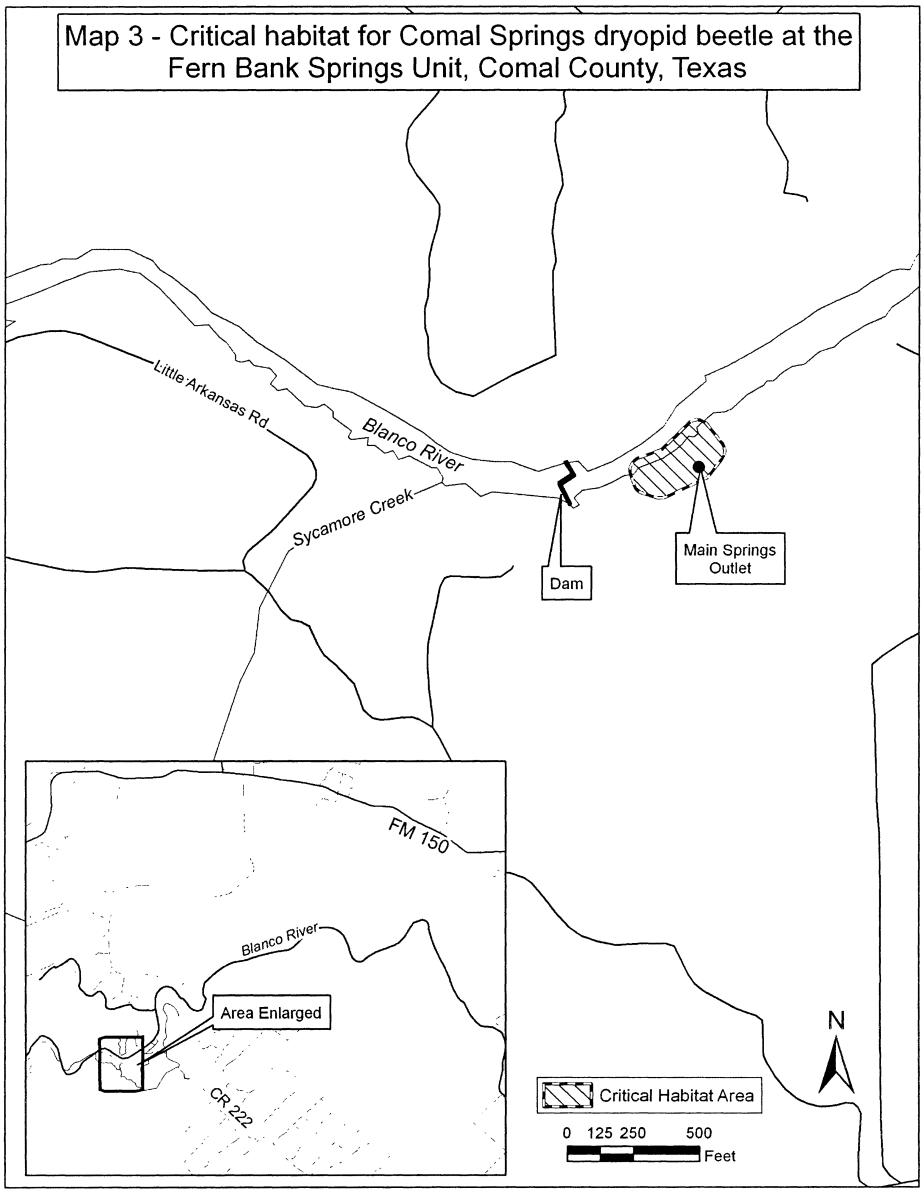


(7) Fern Bank Springs Unit, Hays County, Texas.

(i) Aquatic habitat areas bounded by the UTM Zone 14 NAD 83 coordinates (meters E, meters N): 595131, 3317374; 595131, 3317375; 595132, 3317376; 595132, 3317377; 595132, 3317378; 595132, 3317379; 595133, 3317380; 595133, 3317381; 595133, 3317382; 595134, 3317383; 595135, 3317383; 595135, 3317384; 595136, 3317385; 595137, 3317386; 595137, 3317386; 595138, 3317387; 595139, 3317387; 595140, 3317388; 595141, 3317388; 595141, 3317388; 595168, 3317398; 595181, 3317411; 595198, 3317428; 595198, 3317428; 595199, 3317429; 595199, 3317430; 595200, 3317430; 595201, 3317431; 595202, 3317431; 595203, 3317432; 595204, 3317432; 595205, 3317432; 595206, 3317432; 595207, 3317433; 595208, 3317433;

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(ii) Note: Fern Bank Springs Unit (Map 3) follows:



COMAL SPRINGS RIFFLE BEETLE (*Heterelmis comalensis*).

(1) Critical habitat units are depicted for Comal and Hays Counties, Texas, on the maps below.

(2) The primary constituent elements of critical habitat for Comal Springs riffle beetle are:

(i) High-quality water with no or minimal levels of pollutants, such as soaps and detergents (Brown 1987, p. 261) and other compounds containing surfactants, heavy metals, pesticides, fertilizer nutrients, petroleum hydrocarbons, pharmaceuticals and veterinary medicines, and semi-volatile compounds, such as industrial cleaning agents, and including:

(A) Low salinity with total dissolved solids that generally range from 307 to 368 mg/L; and

(B) Low turbidity that generally is less than 5 nephelometric turbidity units;

(ii) Aquifer water temperatures that range from approximately 68 to 75 °F (20 to 24 °C);

(iii) A hydrologic regime that allows for adequate spring flows that provide levels of dissolved oxygen in the approximate range of 4.0 to 10.0 mg/L for respiration of the Comal Springs riffle beetle;

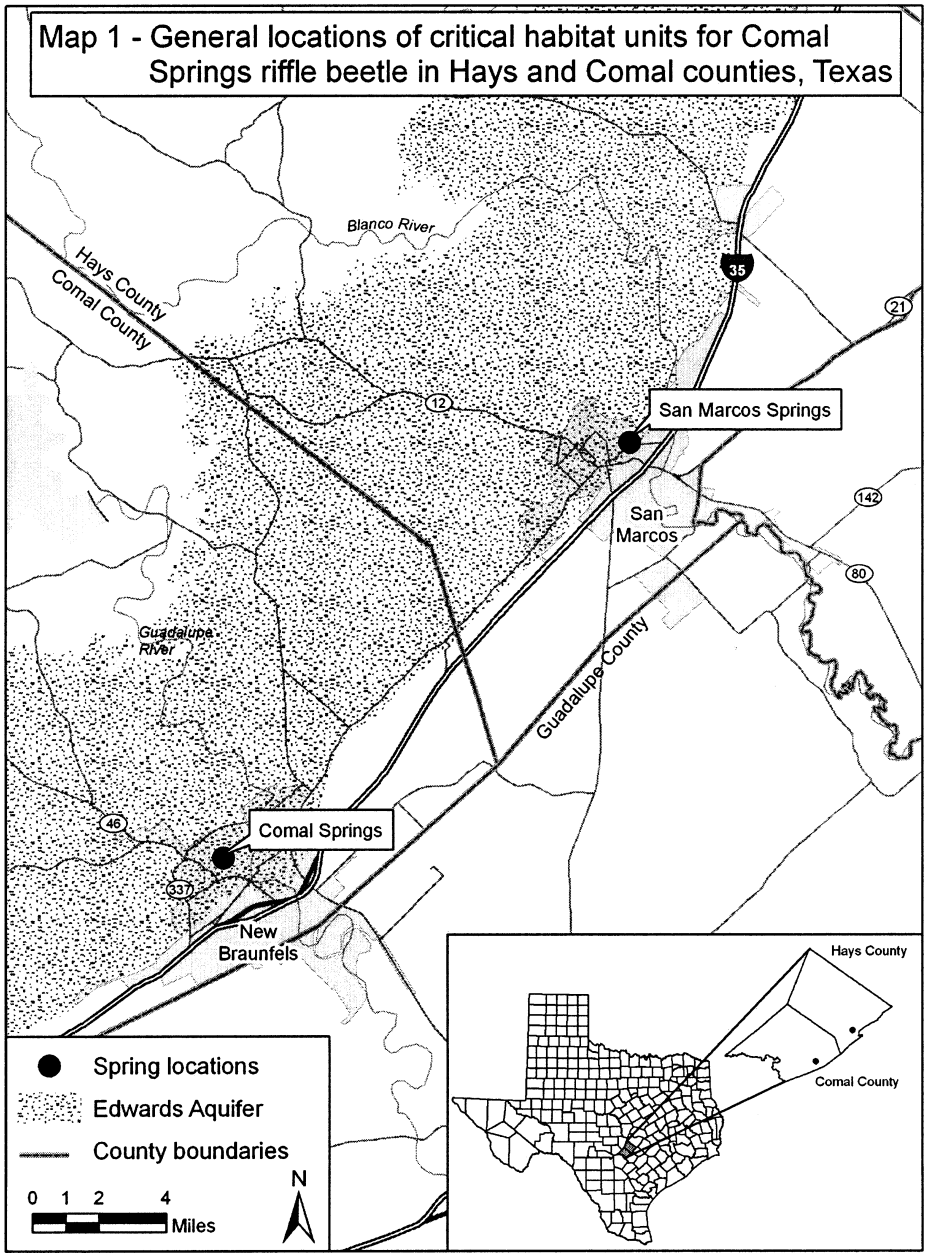
(iv) Food supply that includes detritus (decomposed materials), leaf litter, living plant material, algae, fungi, bacteria and other microorganisms, and decaying roots; and

(v) Bottom substrate in surface water habitat of the Comal Springs riffle beetle that is free of sand and silt, and is composed of gravel and cobble ranging in size from 0.3 to 5.0 inches (8 to 128 millimeters).

(3) Critical habitat does not include manmade structures (such as buildings, aqueducts, roads, and other paved areas) and the land on which they are located existing within the legal boundaries on the effective date of this rule.

(4) *Critical habitat map units.* Data layers defining map units were created by using ArcGIS. All coordinates are UTM zone 14 coordinate pairs, referenced to North American Horizontal Datum 1983. Coordinates were derived from 2004 digital orthophotographs. All acreage and mileage calculations were performed using GIS.

(5) Note: Index map of the critical habitat units for Comal Springs riffle beetle (Map 1) follows:



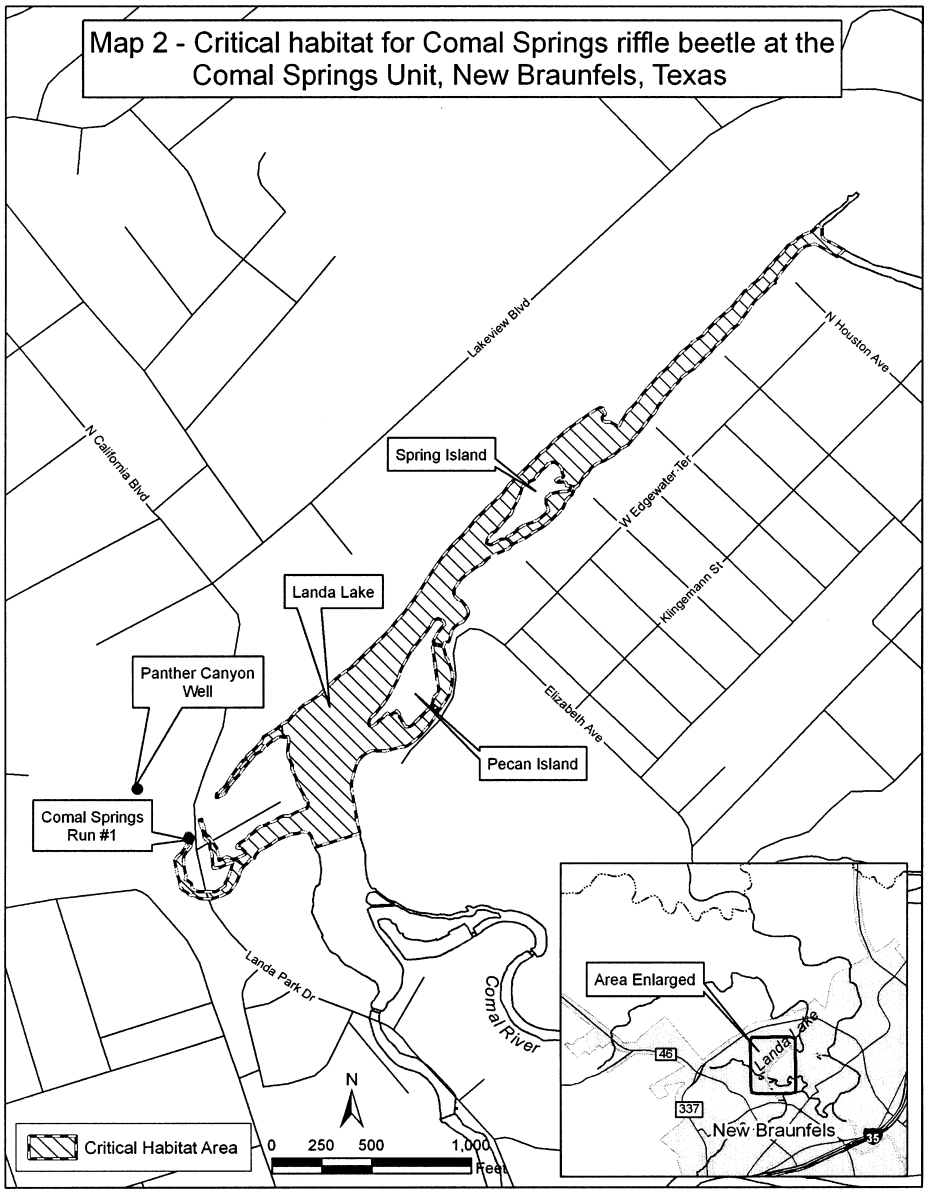
(6) Comal Springs Unit, Comal County, Texas.

(i) Aquatic habitat areas bounded by the UTM Zone 14 NAD 83 coordinates (meters E, meters N): 583420, 3287293; 583423, 3287293; 583426, 3287293; 583428, 3287290; 583429, 3287285; 583428, 3287280; 583426, 3287273; 583422, 3287268; 583416, 3287259; 583415, 3287255; 583415, 3287249;

583417, 3287238; 583418, 3287233; 583419, 3287228; 583418, 3287222; 583421, 3287221; 583427, 3287216; 583429, 3287207; 583435, 3287204; 583442, 3287203; 583455, 3287203; 583464, 3287203; 583468, 3287205; 583475, 3287209; 583479, 3287213; 583479, 3287217; 583483, 3287224; 583486, 3287232; 583490, 3287246; 583491, 3287248; 583485, 3287247; 583481, 3287245; 583476, 3287243; 583471, 3287241; 583461, 3287239; 583460, 3287242; 583460, 3287248; 583459, 3287255; 583459, 3287261; 583458, 3287266; 583455, 3287272; 583455, 3287277; 583452, 3287282; 583449, 3287284; 583446, 3287288; 583445, 3287295; 583441, 3287307; 583439, 3287314; 583443, 3287315; 583444, 3287309; 583446, 3287303; 583449, 3287293; 583450, 3287291; 583453, 3287288; 583457, 3287284; 583461, 3287278; 583466, 3287271; 583468, 3287263; 583469, 3287255; 583470, 3287251; 583480, 3287257; 583484, 3287256; 583488, 3287254; 583492, 3287253; 583493, 3287254; 583496, 3287255; 583500, 3287257; 583503, 3287258; 583507, 3287260; 583509, 3287261; 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(ii) Note: Comal Springs Unit (Map 2) follows:

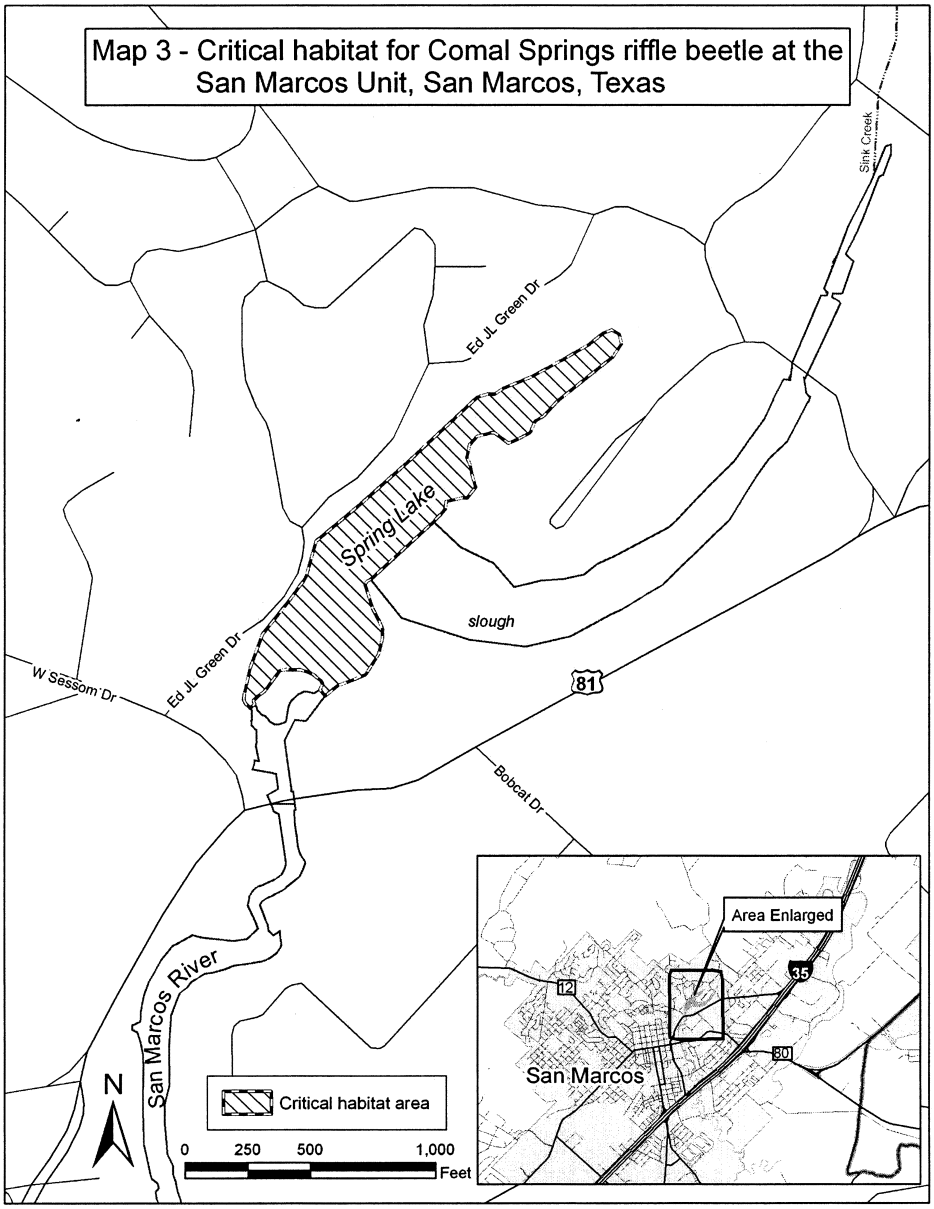


(7) San Marcos Springs Unit, Hays County, Texas.

(i) Aquatic habitat areas bounded by the UTM Zone 14 NAD 83 coordinates (meters E, meters N): 602869, 3307092; 602870, 3307100; 602877, 3307131; 602892, 3307172; 602926, 3307215; 602936, 3307229; 602942, 3307237; 602945, 3307243; 602957, 3307286; 603007, 3307329; 603072, 3307386; 603154, 3307462; 603158, 3307463; 603166, 3307466; 603175, 3307465; 603186, 3307473; 603219, 3307486; 603258, 3307508; 603288, 3307526; 603307, 3307541; 603317, 3307544; 603326, 3307539; 603329, 3307527; 603319, 3307512; 603251, 3307456; 603234, 3307439; 603224, 3307433; 603218, 3307419; 603206, 3307412;

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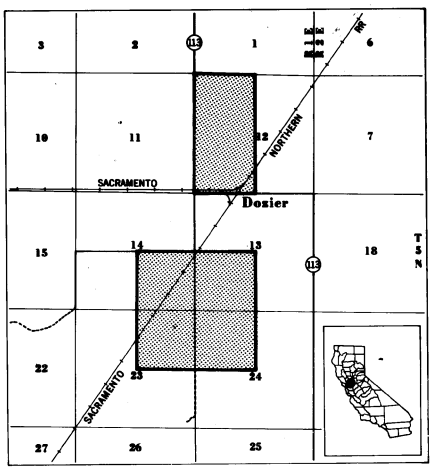
(ii) Note: San Marcos Springs Unit (Map 3) follows:



DELTA GREEN GROUND BEETLE (*Elaphrus viridis*)

California. Solano County. T.5N. R.1E. West ½ Sec. 12, southwest ¼ Sec. 13, southeast ¼ Sec. 14, northeast ¼ Sec. 23, northwest ¼ Sec. 24.

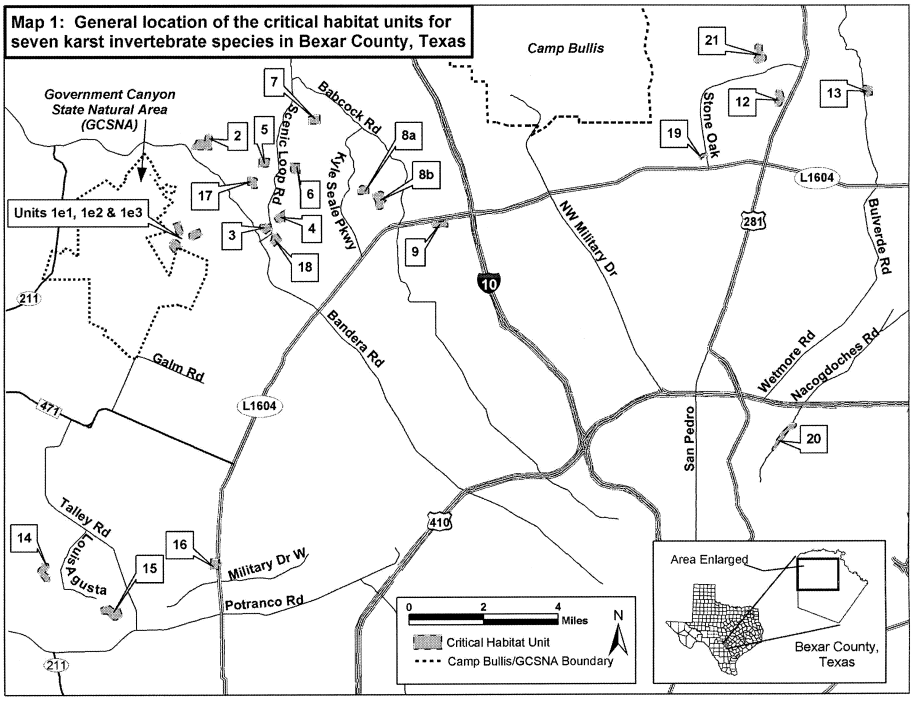
NOTE: Map follows:



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:



(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

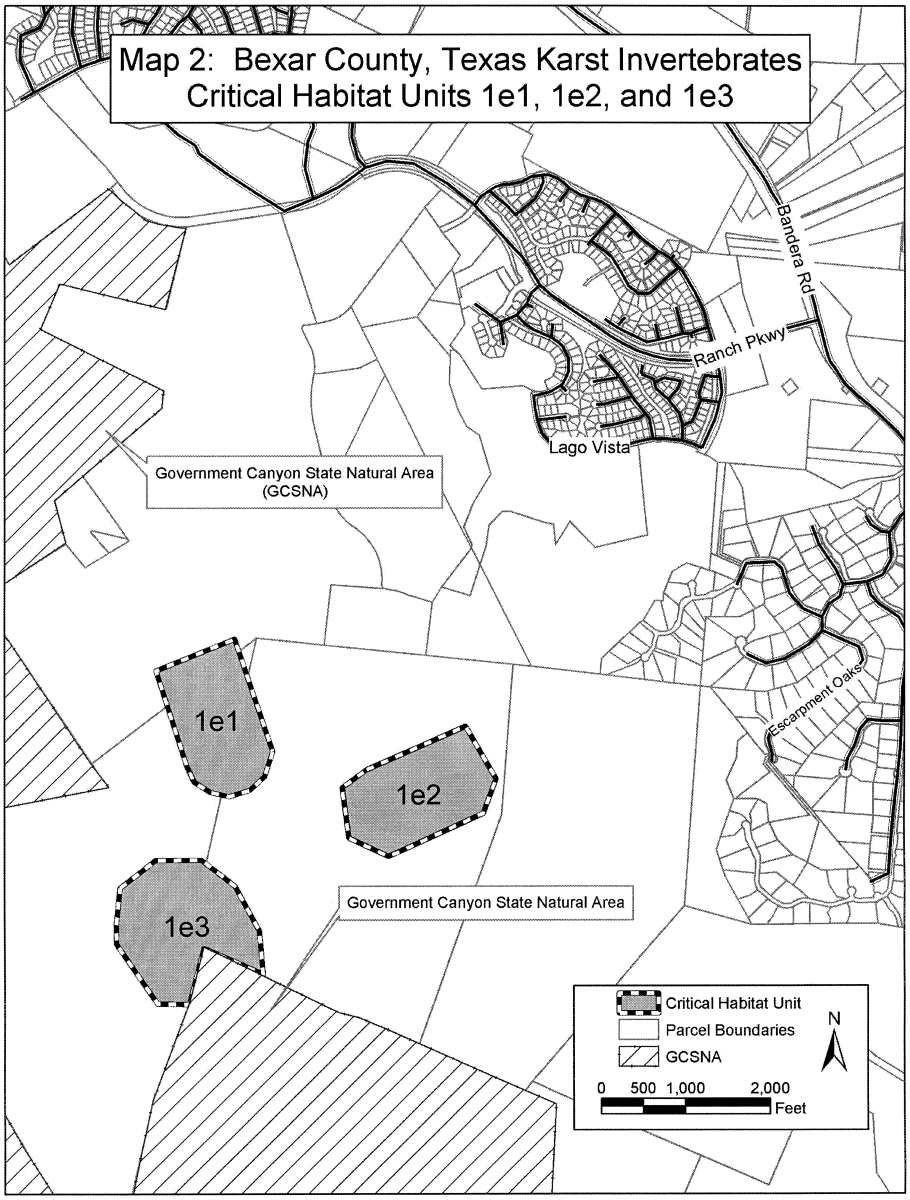
(ii) The biological features of a healthy surface community of native plants (for example, juniper-oak woodland) and animals (for example, cave crickets) surrounding the karst feature that provide nutrient input and buffer the karst ecosystem from adverse effects (from, for example, nonnative species 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:



(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:



(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:



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:



(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;

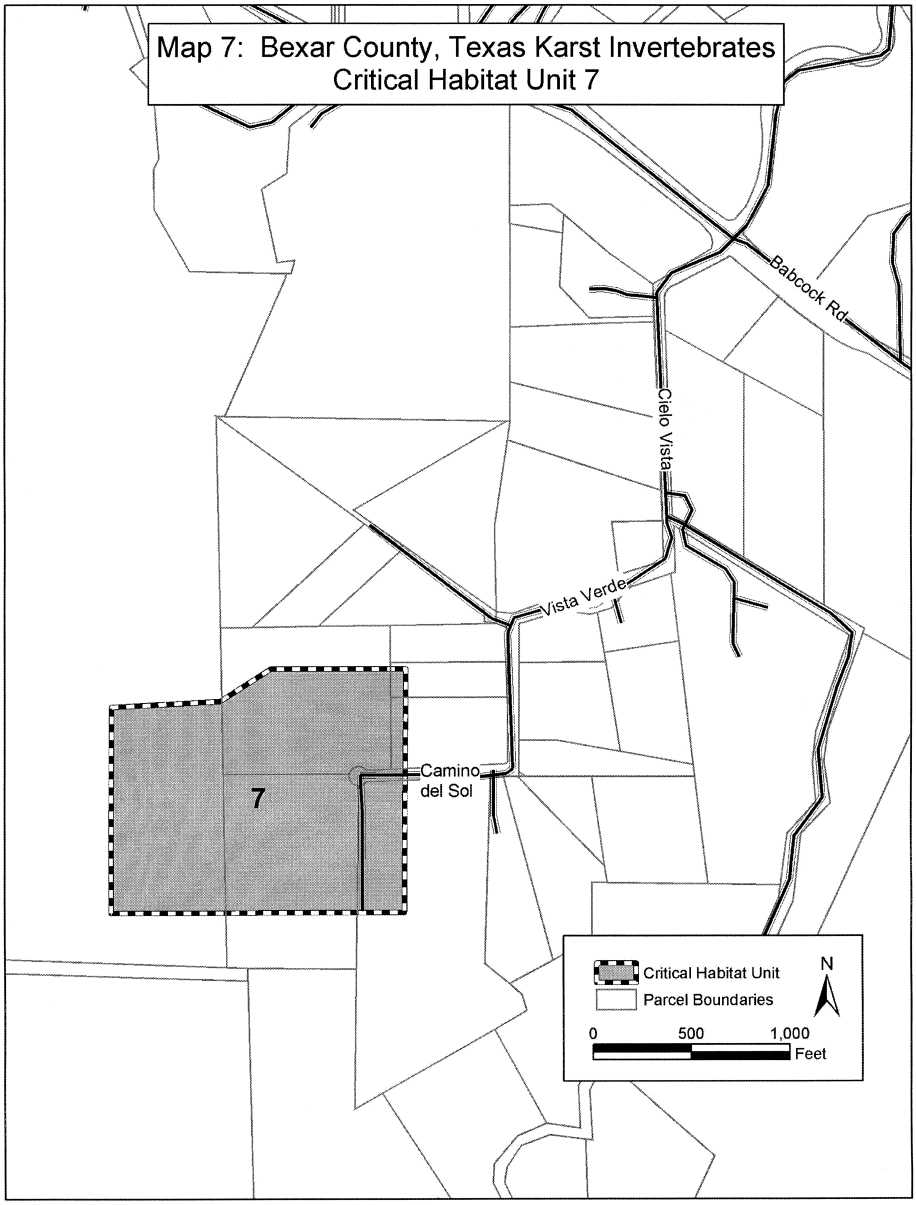
–98.6783407, 29.6077443; –98.6790700, 29.6080113; –98.6795845, 29.6087581; –98.6796498, 29.6115041; –98.6754738, 29.6114940.

(10) Map 6—Unit 6 follows:



(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.

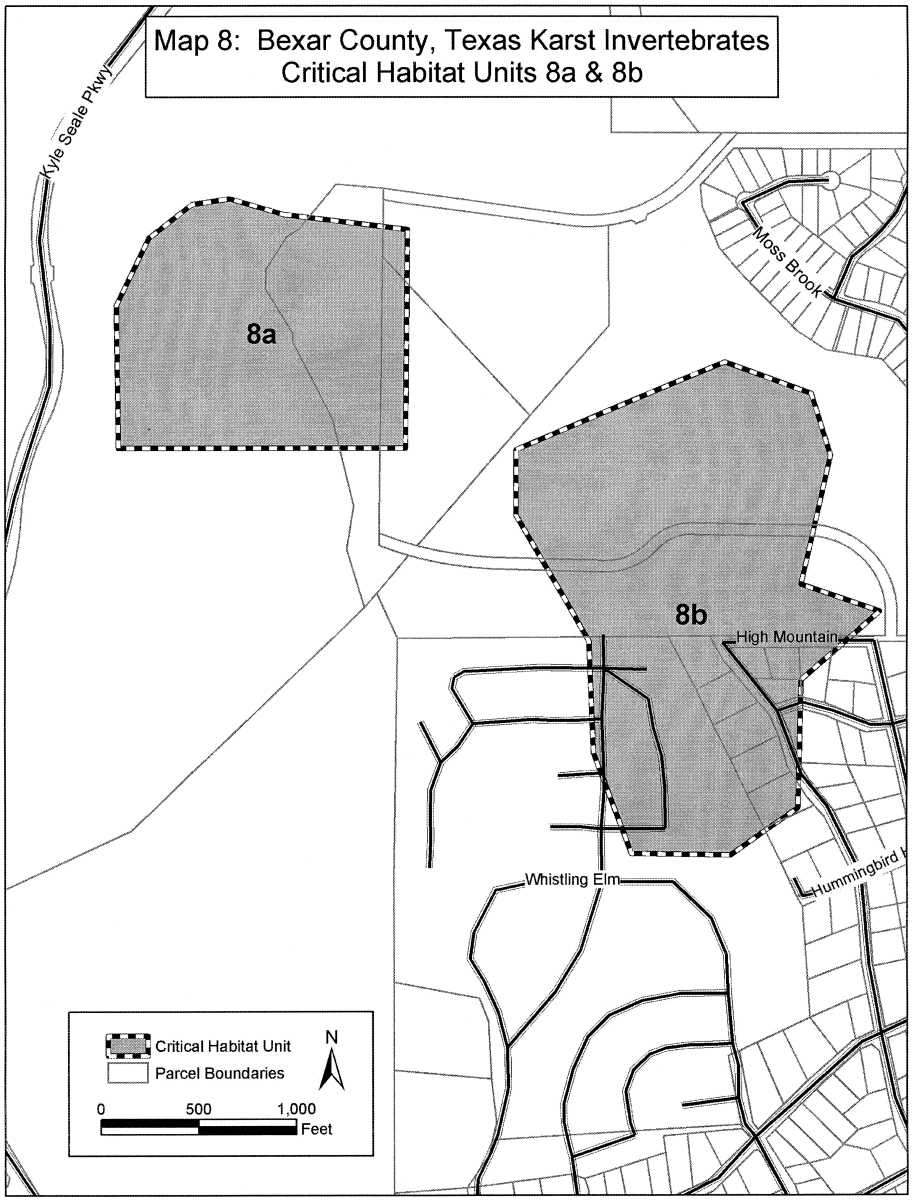
(12) Map 7—Unit 7 follows:



(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:



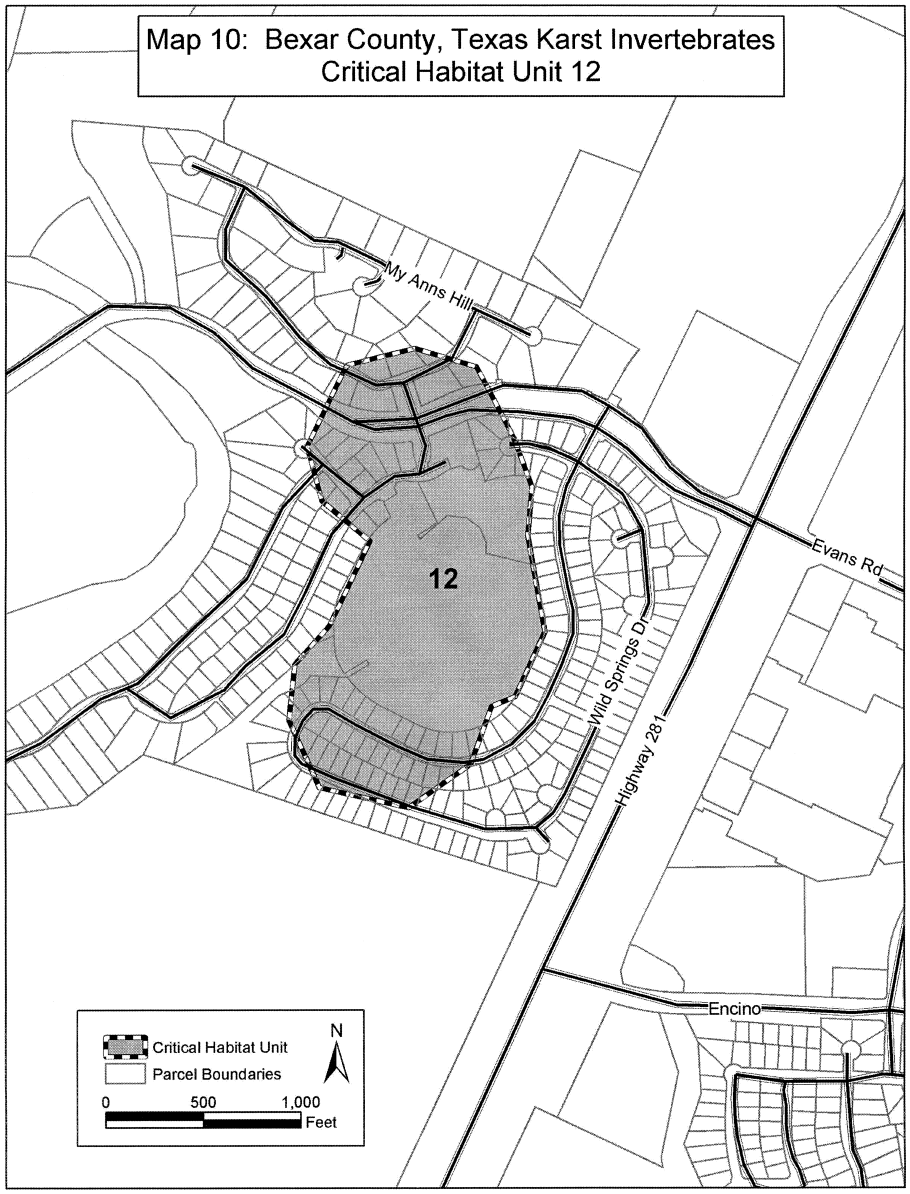
(16) Unit 9 (16 ha (40 ac)) is an area bounded by points with the following coordinates: –98.6166421, 29.5881679; –98.6097995, 29.5889549; –98.6094772, 29.5865751; –98.6141408, 29.5862370; –98.6158210, 29.5862418; –98.6165749, 29.5871541; –98.6166421, 29.5881679.

(17) Map 9—Unit 9 follows:



(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:



(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.

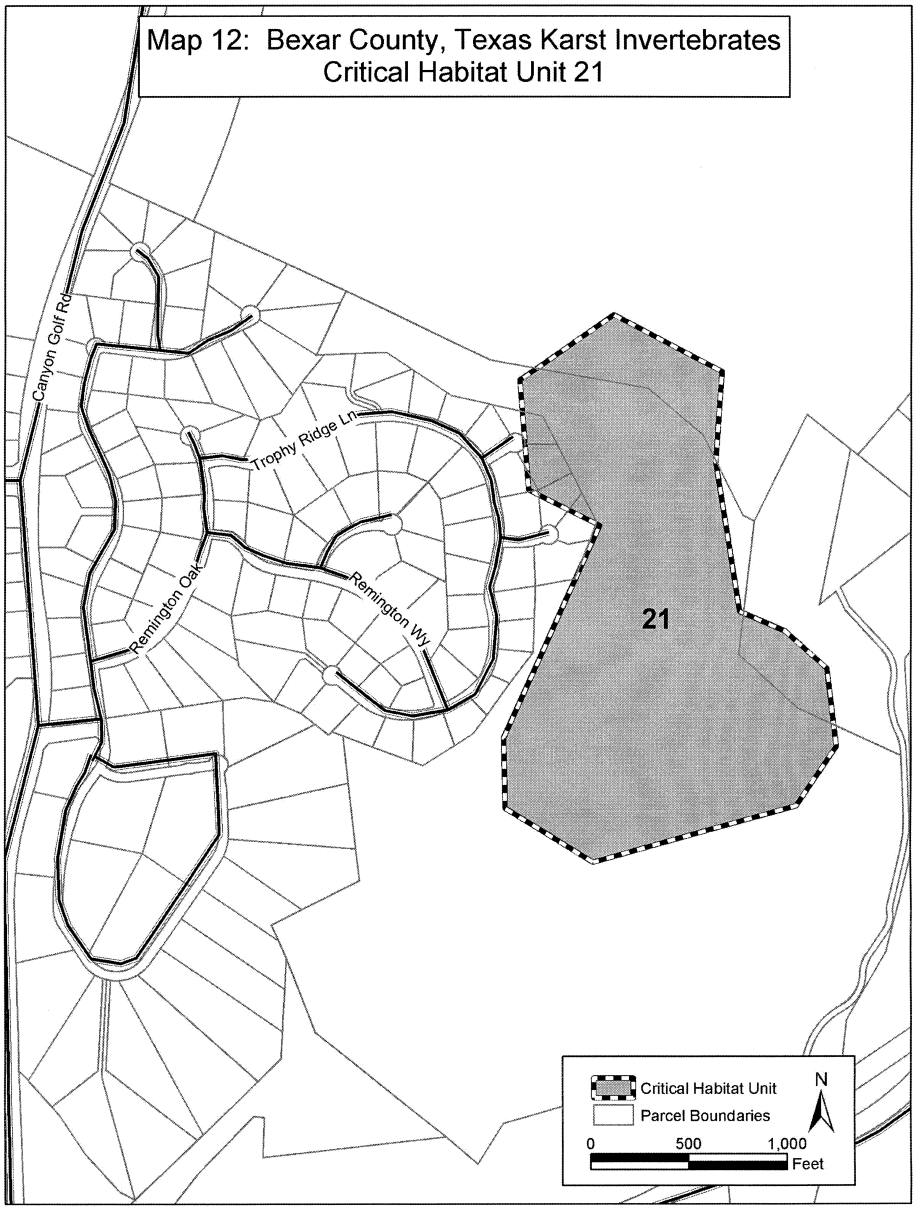
(21) Map 11—Unit 13 follows:



(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:



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).

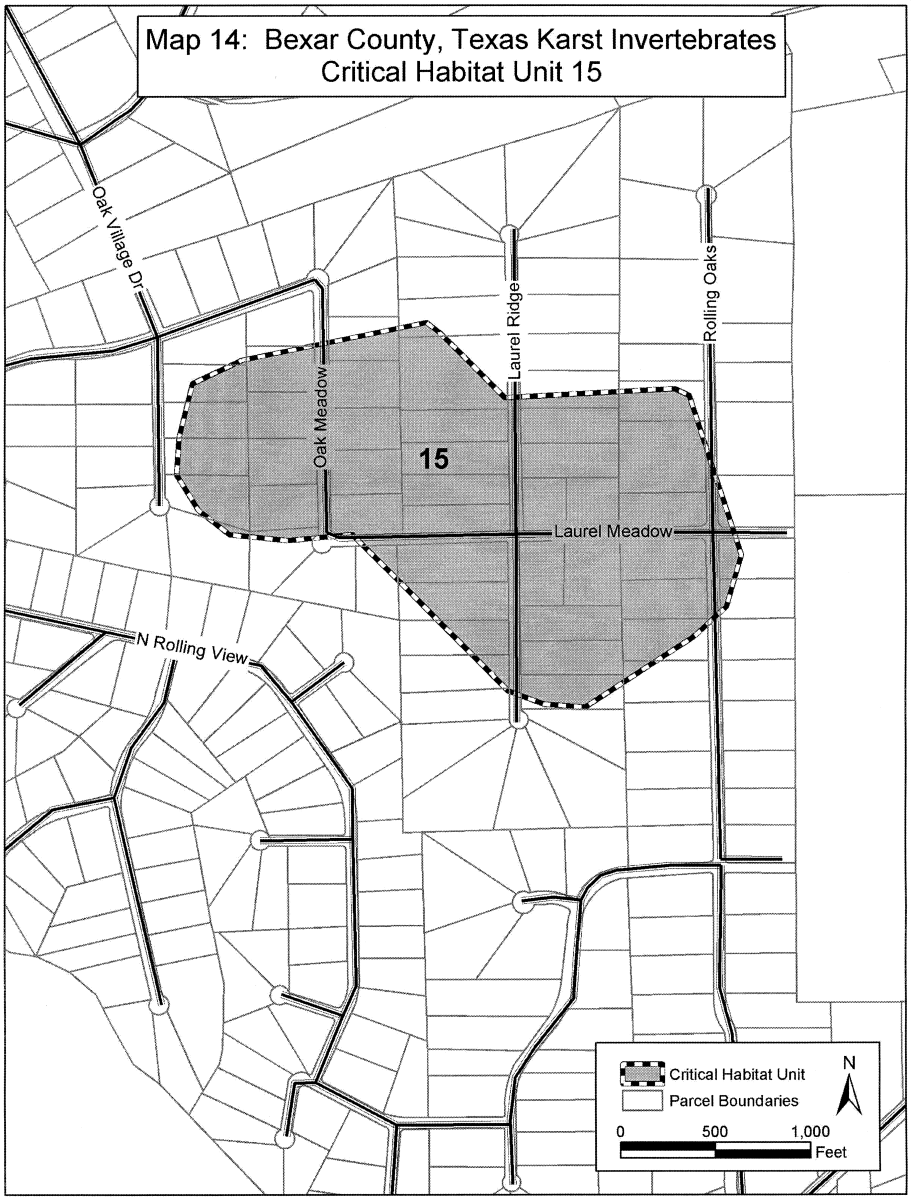
(5) Unit 14 (26 ha (64 ac)) is an area bounded by points with the following coordinates: –98.7863612, 29.4495294; –98.7869725, 29.4489471; –98.7875551, 29.4486522; –98.7883435, 29.4486781; –98.7889905, 29.4489913; –98.7918932, 29.4524710; –98.7918632, 29.4533747; –98.7904052, 29.4548676; –98.7899060, 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:



(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.

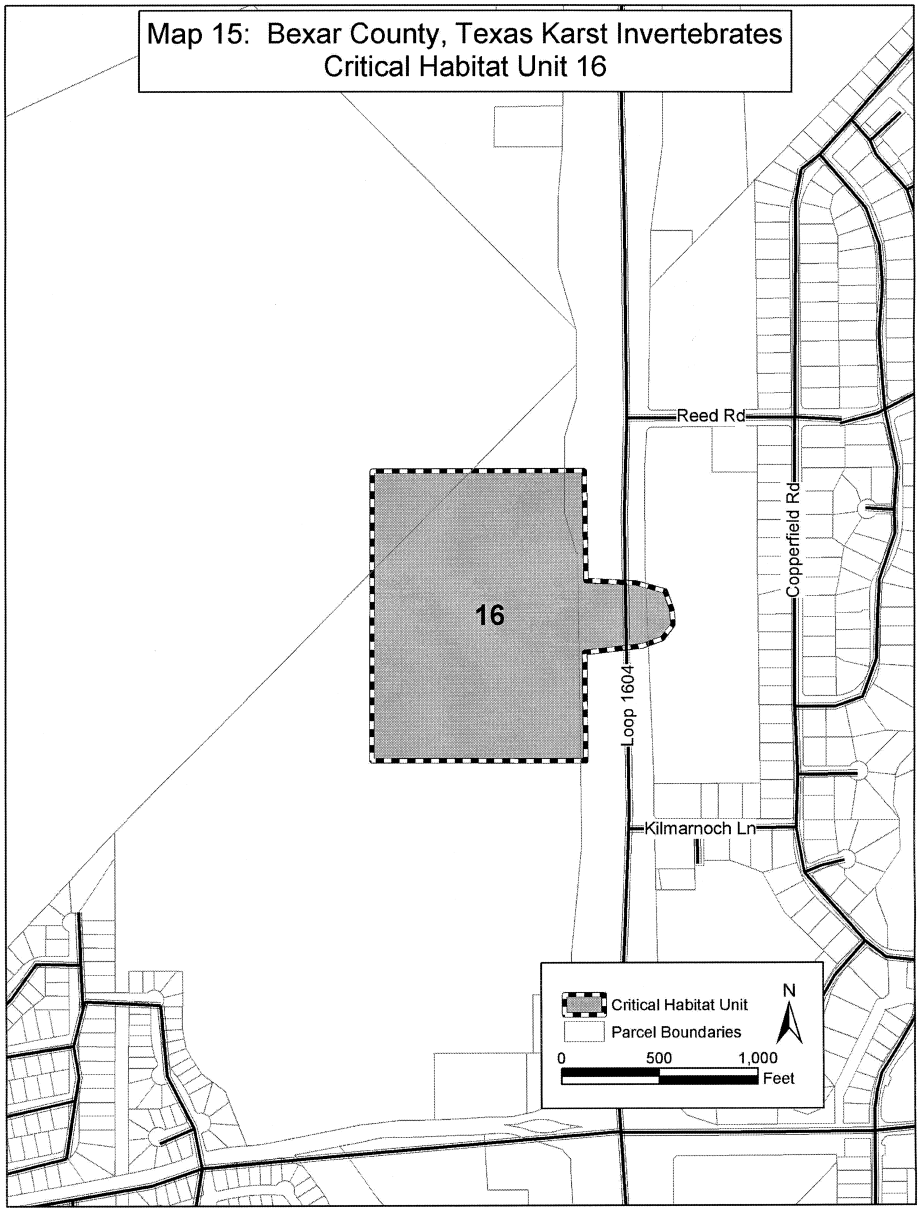
(8) Map 14—Unit 15 follows:



(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:



(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.

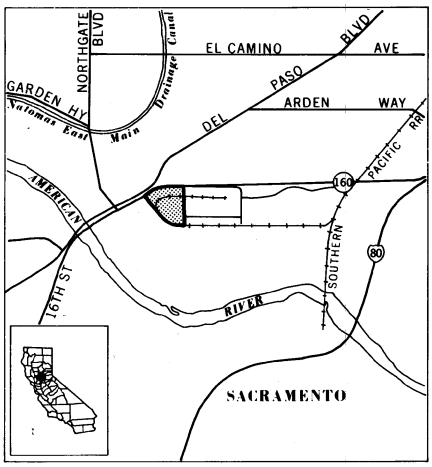
(16) Map 16—Unit 19 follows:



VALLEY ELDERBERRY LONGHORN BEETLE (*Desmocerus californicus dimorphus*) CALIFORNIA. SACRAMENTO COUNTY.

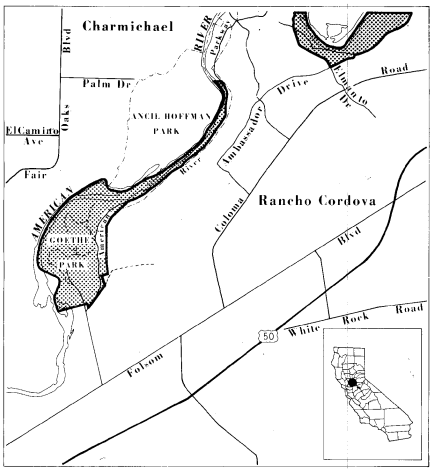
(1) *Sacramento Zone.* An area in the city of Sacramento enclosed on the north by the Route 160 Freeway, on the west and southwest by the Western Pacific railroad tracks, and on the east by Commerce Circle and its extension southward to the railroad tracks.

NOTE: Map follows:



(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:



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) The primary constituent elements of critical habitat for the Bay checkerspot butterfly are the habitat components that provide:

(i) The presence of annual or perennial grasslands with little to no overstory that provide north–south and east–west slopes with a tilt of more than 7 degrees for larval host plant survival during periods of atypical weather (for example, drought). Common grassland species include wild oats (*Avena fatua*), soft chess (*Bromus hordeaceus*), California oatgrass (*Danthonia californica*), purple needlegrass (*Nassella pulchra*), and Idaho fescue (*Festuca idahoensis*); less abundant in these grasslands are annual and perennial forbs such as filaree (*Erodium botrys*), true clovers (*Trifolium* sp.), dwarf plantain (*Plantago erecta*), and turkey mullein (*Croton setigerus*). These species, with the exception of dwarf plantain, are not required by the Bay checkerspot butterfly, but merely are provided here as an example of species commonly found in California grasslands.

(ii) The presence of the primary larval host plant, dwarf plantain (*Plantago erecta*), and at least one of the secondary host plants, purple owl's-clover (*Castilleja densiflora*) or exserted paintbrush (*Castilleja exserta*), are required for reproduction, feeding, and larval development.

(iii) The presence of adult nectar sources for feeding. Common nectar sources include desertparsley (*Lomatium* spp.), California goldfields (*Lasthenia californica*), tidy-tips (*Layia platyglossa*), sea muilla (*Muilla maritima*), scytheleaf onion (*Allium falcifolium*), false babystars (*Linanthus androsaceus*), and intermediate fiddleneck (*Amsinckia intermedia*).

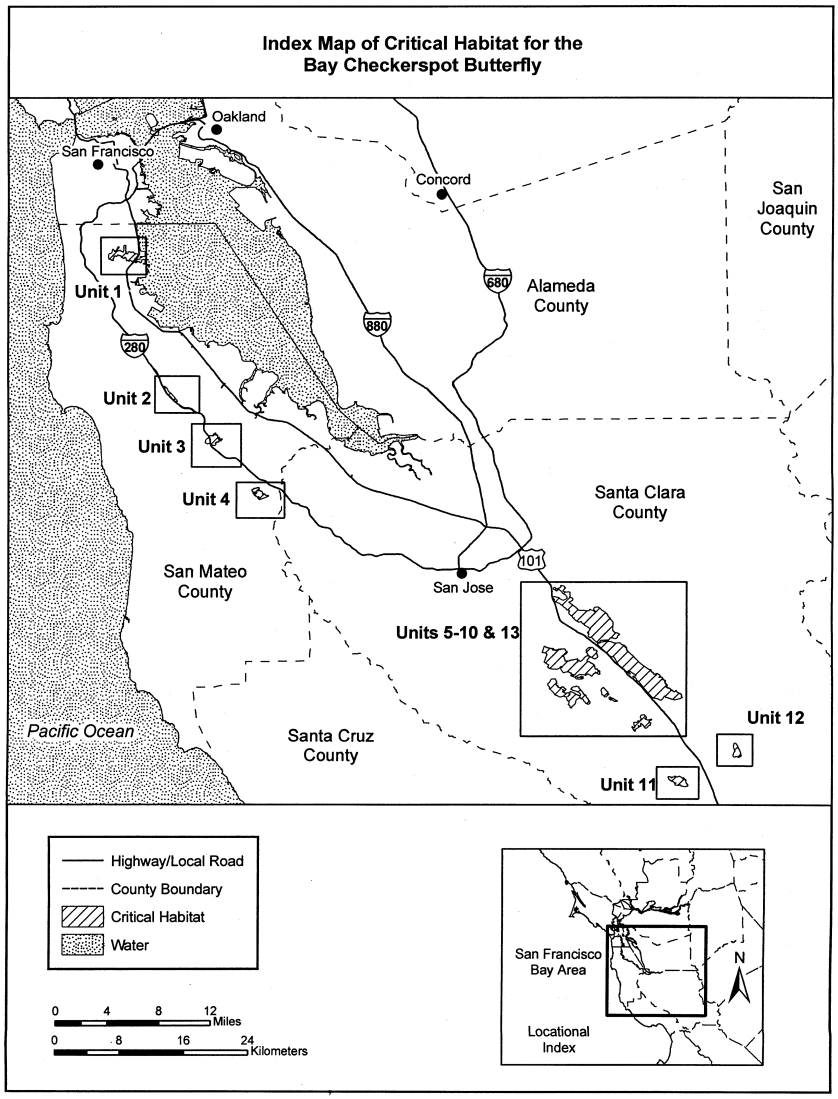
(iv) Soils derived from serpentinite ultramafic rock (Montara, Climara, Henneke, Hentine, and Obispo soil series) or similar soils (Inks, Candlestick, Los Gatos, Fagan, and Barnabe soil series) that provide areas with fewer aggressive, nonnative plant species for larval host plant and adult nectar plant survival and reproduction.

(v) The presence of stable holes and cracks in the soil, and surface rock outcrops that provide shelter for the larval stage of the Bay checkerspot butterfly during summer diapause.

(3) Critical habitat does not include man-made structures (such as buildings, aqueducts, runways, roads, and other paved areas) and the land on which they are located existing on the effective date of this rule and not containing one or more of the primary constituent elements.

(4) Critical habitat map units. Data layers defining map units were created on a base of USGS 7.5′ quadrangles using USDA National Agricultural Imagery Program (NAIP) county-wide MrSID compressed mosaics of 1 meter resolution and natural color aerial photography from summer 2005. Critical habitat units were then mapped using Universal Transverse Mercator (UTM) zone 10, North American Datum (NAD) 1983 coordinates.

(5) *Note*: Index map for Bay checkerspot butterfly critical habitat units follows:



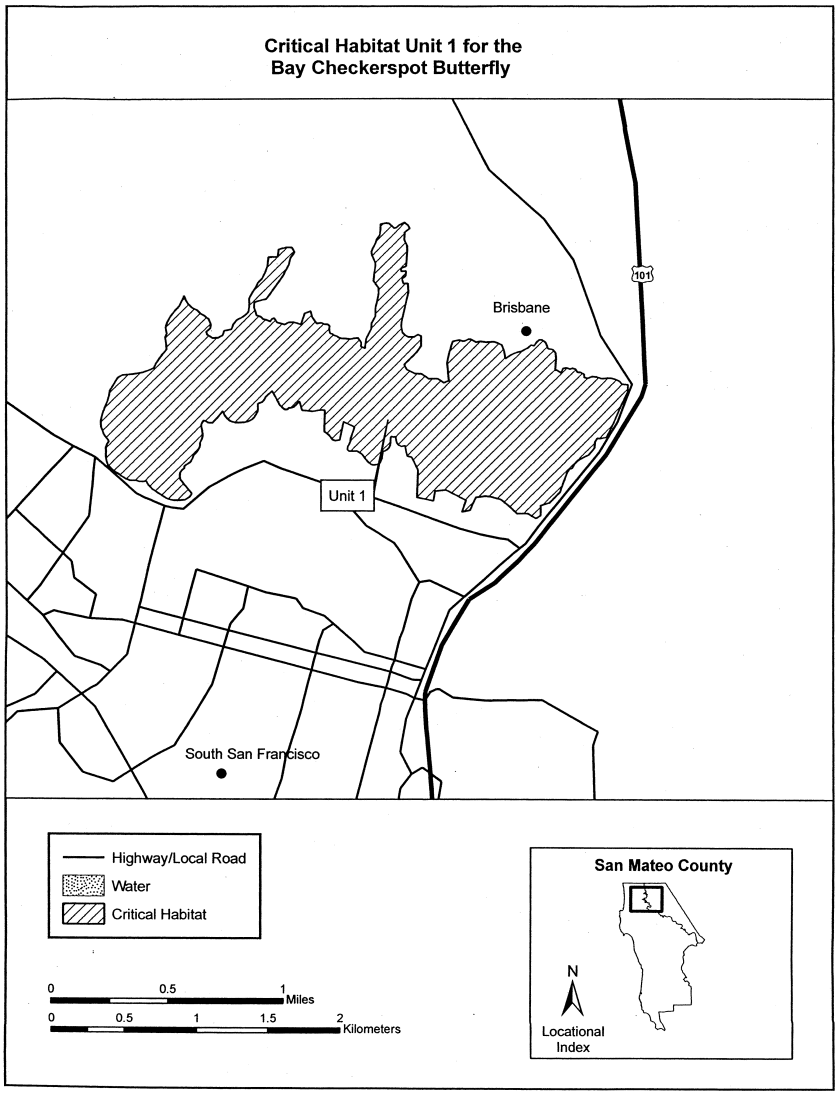
(6) Unit 1: San Bruno Mountain, San Mateo County, California. From USGS 1:24,000 scale quadrangle San Francisco South.

(i) Land bounded by the following UTM zone 10, NAD 1983 coordinates (E,N): 52853, 4170062; 52856, 4170038; 52862, 4170043; 52866,

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4169960; 52221, 4169933; 52269, 4169930; 52319, 4169895; 52385, 4169894; 52425, 4169868; 52461, 4169881; 52449, 4170010; 52462, 4170073; 52488, 4170158; 52518, 4170166; 52539, 4170168; 52560, 4170160; 52575, 4170162; 52596, 4170173; 52616, 4170174; 52651, 4170154; 52683, 4170159; 52723, 4170154; 52754, 4170155; 52782, 4170155; 52805, 4170147; 52831, 4170134; 52847, 4170094; returning to 52853, 4170062.

(ii) *Note*: Map of Unit 1 for Bay checkerspot butterfly follows:

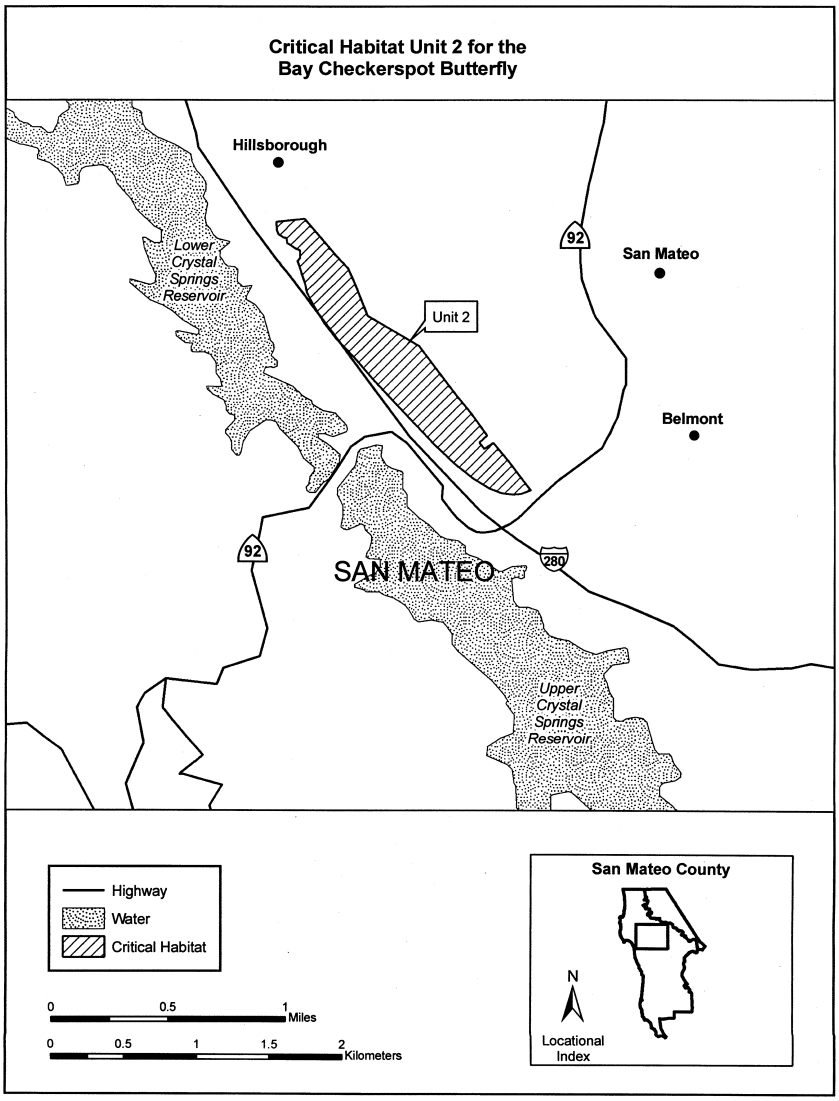


(7) Unit 2: Pulgas Ridge, San Mateo County, California. From USGS 1:24,000 scale quadrangle San Mateo.

(i) Land bounded by the following UTM zone 10, NAD 1983 coordinates (E,N): 558502, 4151442; 558422, 4151451; 558339, 4151484; 558223, 4151555; 558094, 4151656; 557957, 4151788; 557745,

4152013; 557545, 4152228; 557398, 4152392; 557274, 4152523; 557191, 4152632; 557123, 4152751; 557076, 4152838; 557061, 4152902; 557012, 4153060; 557027, 4153077; 557027, 4153130; 556994, 4153145; 556961, 4153171; 556939, 4153182; 556936, 4153216; 556913, 4153220; 556880, 4153242; 556868, 4153273; 556867, 4153329; 557060, 4153350; 557277, 4153095; 557358, 4153009; 557407, 4152900; 557494, 4152681; 557576, 4152631; 557851, 4152470; 558104, 4152134; 558210, 4152004; 558320, 4151850; 558268, 4151803; 558302, 4151758; 558363, 4151800; 558474, 4151666; 558625, 4151470; 558602, 4151463; 558557, 4151448; returning to 558502, 4151442.

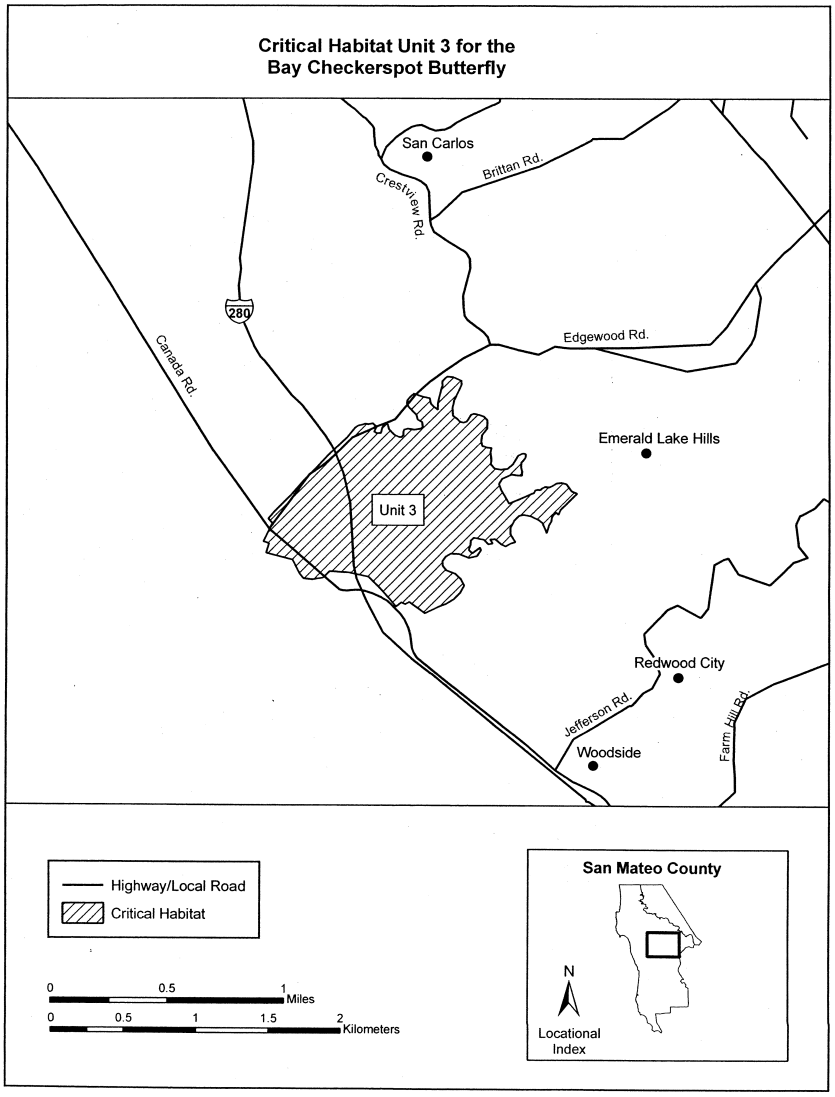
(ii) *Note*: Map of Unit 2 for Bay checkerspot butterfly follows:



(8) Unit 3: Edgewood Park, San Mateo County, California. From USGS 1:24,000 scale quadrangle Woodside.

(i) Land bounded by the following UTM zone 10, NAD 1983 coordinates (E,N): 564162, 4146806; 564197, 4146796; 564234, 4146748; 564270, 4146731; 564196, 4146657; 564182, 4146642; 564169, 4146630; 564154, 4146615; 564142, 4146585; 564128, 4146601; 564108, 4146585; 564097, 4146565; 564092, 4146540; 564078, 4146514; 564061, 4146457; 564032, 4146525; 564003, 4146549; 563949, 4146575; 563903, 4146582; 563868, 4146576; 563834, 4146542; 563809, 4146492; 563808, 4146448; 563842, 4146394; 563811, 4146384; 563774, 4146364; 563747, 4146377; 563726, 4146394; 563702, 4146416; 563668, 4146413; 563684, 4146384; 563656, 4146377; 563626, 4146409; 563555, 4146423; 563533, 4146403; 563533, 4146374; 563520, 4146338; 563543, 4146316; 563596, 4146356; 563604, 4146338; 563576, 4146297; 563520, 4146284; 563450, 4146312; 563396, 4146314; 563360, 4146293; 563338, 4146263; 563340, 4146229; 563365, 4146198; 563424, 4146176; 563464, 4146140; 563488, 4146094; 563459, 4146043; 563420, 4146003; 563361, 4145965; 563305, 4145945; 563215, 4145902; 563106, 4145980; 563077, 4145966; 563050, 4145976; 563014, 4145948; 562923, 4146053; 562820, 4146153; 562674, 4146184; 562550, 4146190; 562503, 4146146; 562432, 4146134; 562367, 4146141; 562337, 4146177; 562290, 4146269; 562106, 4146315; 562126, 4146380; 562087, 4146395; 562148, 4146523; 562121, 4146554; 562162, 4146602; 562260, 4146697; 562284, 4146723; 562369, 4146818; 562418, 4146870; 562467, 4146918; 562548, 4147005; 562667, 4147115; 562724, 4147186; 562744, 4147200; 562771, 4147206; 562796, 4147214; 562816, 4147212; 562849, 4147216; 562862, 4147203; 562874, 4147191; 562858, 4147160; 562876, 4147148; 562907, 4147149; 562915, 4147187; 562936, 4147221; 562955, 4147207; 562963, 4147174; 563001, 4147137; 563034, 4147121; 563052, 4147122; 563063, 4147135; 563063, 4147160; 563070, 4147174; 563098, 4147180; 563141, 4147173; 563179, 4147179; 563199, 4147187; 563196, 4147227; 563164, 4147243; 563156, 4147274; 563140, 4147290; 563124, 4147308; 563103, 4147329; 563087, 4147356; 563093, 4147379; 563113, 4147405; 563138, 4147424; 563196, 4147403; 563228, 4147396; 563247, 4147392; 563256, 4147354; 563275, 4147334; 563304, 4147313; 563304, 4147357; 563312, 4147395; 563324, 4147437; 563329, 4147458; 563336, 4147478; 563334, 4147508; 563354, 4147530; 563371, 4147543; 563411, 4147539; 563440, 4147526; 563465, 4147513; 563468, 4147488; 563457, 4147462; 563446, 4147441; 563436, 4147420; 563429, 4147405; 563422, 4147390; 563415, 4147377; 563414, 4147360; 563406, 4147327; 563408, 4147272; 563443, 4147244; 563457, 4147229; 563480, 4147222; 563502, 4147229; 563517, 4147251; 563534, 4147276; 563553, 4147283; 563569, 4147282; 563595, 4147274; 563623, 4147264; 563646, 4147239; 563645, 4147181; 563608, 4147135; 563604, 4147096; 563609, 4147060; 563647, 4147048; 563675, 4147047; 563668, 4147013; 563671, 4146982; 563673, 4146964; 563675, 4146954; 563669, 4146934; 563697, 4146903; 563739, 4146896; 563788, 4146903; 563825, 4146934; 563853, 4146979; 563862, 4146993; 563882, 4147004; 563902, 4147007; 563915, 4147002; 563912, 4146981; 563900, 4146963; 563883, 4146944; 563881, 4146913; 563889, 4146885; 563888, 4146855; 563858, 4146857; 563817, 4146861; 563749, 4146833; 563727, 4146798; 563744, 4146751; 563776, 4146699; 563799, 4146661; 563863, 4146689; 563971, 4146735; 563979, 4146753; 563997, 4146758; 564017, 4146756; 564030, 4146769; 564048, 4146778; 564080, 4146775; 564099, 4146784; 564131, 4146803; returning to 564162, 4146806.

(ii) *Note*: Map of Unit 3 for Bay checkerspot butterfly follows:

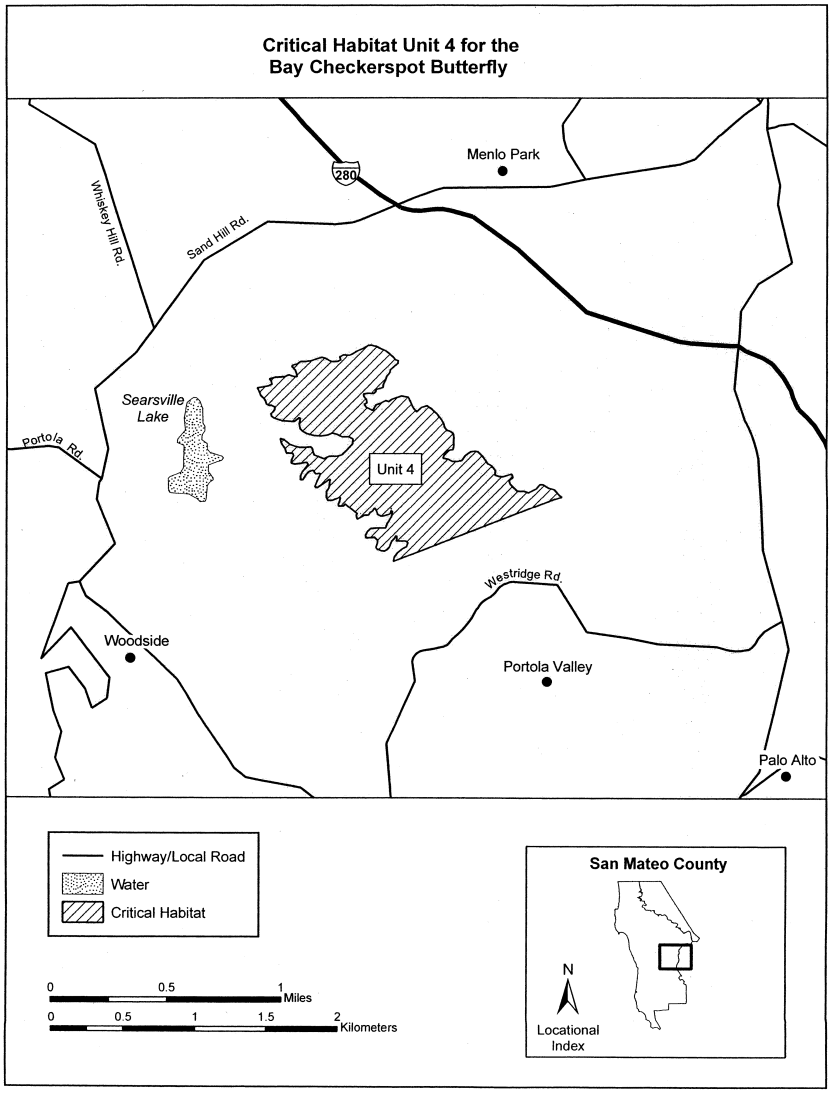


(9) Unit 4: Jasper Ridge, San Mateo County, California. From USGS 1:24,000 scale quadrangle Palo Alto.

(i) Land bounded by the following UTM zone 10, NAD 1983 coordinates (E,N): 569513, 4139881; 569524, 4139862; 569550, 4139849; 569569, 4139829; 569580, 4139812; 569578, 4139791; 569578, 4139780; 569605, 4139771; 569631, 4139770; 569696, 4139789; 569703, 4139764; 569676, 4139743; 569686, 4139716; 569736, 4139668; 569782, 4139670; 569815, 4139659; 569839, 4139671; 569869, 4139687; 569893, 4139716; 569915, 4139714; 569954, 4139692; 569993, 4139680; 570014, 4139658; 570027, 4139642; 570046, 4139627; 569983, 4139608; 568859, 4139177; 568865, 4139205; 568889, 4139237; 568921, 4139265; 568951, 4139280; 568962, 4139308; 568947, 4139319; 568908, 4139319; 568882, 4139319; 568882, 4139327; 568885, 4139340; 568885, 4139353; 568876, 4139355; 568869, 4139342; 568848, 4139319; 568831, 4139278; 568816, 4139261; 568797, 4139250; 568775, 4139252; 568758, 4139261; 568747, 4139261; 568736, 4139274; 568745, 4139299; 568749, 4139323; 568728, 4139344; 568702, 4139342; 568674, 4139342; 568666, 4139342; 568664, 4139362; 568676, 4139387; 568698, 4139407; 568743,

4139411; 568771, 4139411; 568805, 4139411; 568816, 4139441; 568846, 4139490; 568852, 4139520; 568852, 4139527; 568844, 4139531; 568833, 4139507; 568788, 4139495; 568771, 4139495; 568749, 4139505; 568741, 4139527; 568730, 4139548; 568724, 4139548; 568713, 4139531; 568694, 4139518; 568685, 4139503; 568674, 4139501; 568657, 4139501; 568642, 4139495; 568627, 4139484; 568603, 4139473; 568597, 4139499; 568603, 4139512; 568520, 4139578; 568505, 4139565; 568475, 4139565; 568470, 4139574; 568479, 4139595; 568485, 4139621; 568481, 4139625; 568462, 4139617; 568425, 4139604; 568400, 4139604; 568389, 4139623; 568389, 4139641; 568391, 4139668; 568404, 4139688; 568410, 4139705; 568410, 4139722; 568412, 4139741; 568417, 4139746; 568408, 4139752; 568389, 4139737; 568361, 4139718; 568325, 4139694; 568314, 4139694; 568307, 4139703; 568322, 4139737; 568335, 4139765; 568348, 4139791; 568335, 4139793; 568315, 4139789; 568305, 4139799; 568296, 4139814; 568270, 4139808; 568246, 4139783; 568225, 4139748; 568210, 4139748; 568210, 4139778; 568221, 4139803; 568247, 4139836; 568261, 4139857; 568252, 4139870; 568210, 4139863; 568165, 4139858; 568142, 4139865; 568145, 4139890; 568159, 4139919; 568152, 4139934; 568108, 4139937; 568099, 4139966; 568083, 4139989; 568070, 4140011; 568066, 4140038; 568090, 4140032; 568131, 4139998; 568168, 4139984; 568203, 4139975; 568250, 4139976; 568279, 4139979; 568289, 4139967; 568294, 4139945; 568303, 4139922; 568324, 4139914; 568345, 4139906; 568371, 4139896; 568407, 4139913; 568461, 4139913; 568495, 4139923; 568526, 4139951; 568571, 4140000; 568574, 4140034; 568543, 4140051; 568497, 4140049; 568467, 4140066; 568430, 4140076; 568397, 4140063; 568353, 4140055; 568300, 4140059; 568250, 4140072; 568225, 4140087; 568205, 4140107; 568200, 4140141; 568207, 4140177; 568200, 4140183; 568163, 4140157; 568082, 4140161; 568023, 4140180; 568005, 4140193; 567998, 4140211; 568015, 4140225; 568027, 4140241; 568028, 4140259; 568006, 4140269; 567984, 4140271; 567967, 4140280; 567962, 4140301; 567948, 4140320; 567930, 4140339; 567915, 4140373; 567904, 4140392; 567938, 4140398; 567980, 4140405; 568008, 4140418; 568001, 4140442; 567988, 4140457; 568031, 4140467; 568098, 4140470; 568123, 4140484; 568166, 4140471; 568183, 4140472; 568180, 4140494; 568172, 4140517; 568147, 4140543; 568153, 4140554; 568184, 4140561; 568209, 4140577; 568249, 4140579; 568285, 4140585; 568318, 4140597; 568356, 4140608; 568383, 4140600; 568423, 4140577; 568471, 4140580; 568488, 4140590; 568483, 4140612; 568507, 4140625; 568551, 4140623; 568572, 4140632; 568606, 4140653; 568658, 4140676; 568681, 4140691; 568705, 4140693; 568723, 4140687; 568741, 4140684; 568762, 4140673; 568807, 4140653; 568830, 4140634; 568862, 4140607; 568873, 4140591; 568894, 4140584; 568891, 4140566; 568881, 4140556; 568856, 4140536; 568838, 4140520; 568834, 4140499; 568812, 4140474; 568803, 4140445; 568791, 4140422; 568786, 4140395; 568739, 4140382; 568733, 4140366; 568719, 4140353; 568682, 4140355; 568648, 4140350; 568651, 4140331; 568668, 4140312; 568672, 4140286; 568653, 4140278; 568668, 4140256; 568713, 4140235; 568736, 4140273; 568769, 4140284; 568805, 4140303; 568827, 4140297; 568848, 4140312; 568872, 4140321; 568918, 4140335; 568964, 4140327; 569000, 4140248; 569024, 4140226; 569058, 4140256; 569097, 4140267; 569129, 4140244; 569166, 4140211; 569186, 4140185; 569202, 4140165; 569217, 4140136; 569219, 4140119; 569228, 4140106; 569240, 4140094; 569260, 4140088; 569282, 4140073; 569286, 4140045; 569284, 4140017; 569286, 4139986; 569279, 4139961; 569254, 4139955; 569242, 4139943; 569217, 4139920; 569211, 4139900; 569246, 4139893; 569275, 4139877; 569305, 4139877; 569342, 4139883; 569367, 4139919; 569404, 4139945; 569434, 4139949; 569455, 4139945; 569485, 4139917; returning to 569513, 4139881.

(ii) *Note*: Map of Unit 4 for Bay checkerspot butterfly follows:

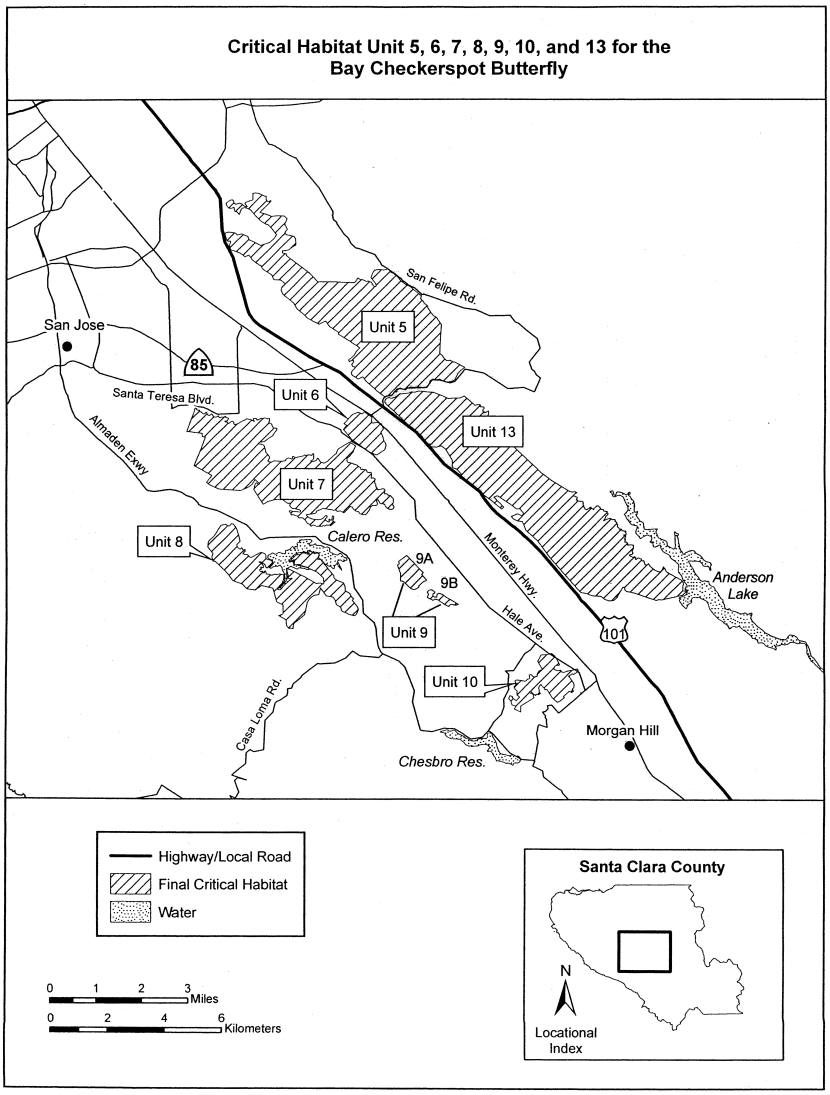


(10) Unit 5: Metcalf, Santa Clara County, California. From USGS 1:24,000 scale quadrangles San Jose East, Lick Observatory, Santa Teresa Hills, and Morgan Hill.

(i) Land bounded by the following UTM zone 10, NAD 1983 coordinates (E,N): 611242, 4121203; 611273, 4121300; 611382, 4121353; 611488, 4121320; 611607, 4121360; 611707, 4121423; 611776, 4121486; 611856, 4121482; 611945, 4121496; 612084, 4121502; 612190, 4121555; 612315, 4121543; 612448, 4121585; 612577, 4121572; 612974, 4121532; 613302, 4121410; 613507, 4121310; 613672, 4121337; 613907, 4121337; 614056, 4121410; 614393, 4121110; 614418, 4121079; 614479, 4121095; 614513, 4121108; 614547, 4121103; 614579, 4121103; 614616, 4121102; 614628, 4121071; 614610, 4121032; 614633, 4121024; 614691, 4121025; 614737, 4121019; 614760, 4120988; 614750, 4120961; 614713, 4120939; 614711, 4120903; 614703, 4120876; 614718, 4120863; 614731, 4120832; 614743, 4120810; 614774, 4120852; 614784, 4120819; 614904, 4120878; 614919, 4120849; 614913, 4120812; 614919, 4120775; 614897, 4120730; 614874, 4120715; 614886, 4120686; 614891, 4120659; 614921, 4120671; 614969, 4120678; 614999, 4120664; 614999, 4120625; 614974,

4120593; 614980, 4120547; 614950, 4120517; 614942, 4120488; 614970, 4120470; 614986, 4120424; 614996, 4120339; 615037, 4120410; 615163, 4120270; 615782, 4119656; 615873, 4119555; 616548, 4118936; 616751, 4118743; 617140, 4118453; 617774, 4118066; 617873, 4118037; 617986, 4118057; 618040, 4118015; 617983, 4117993; 617934, 4117940; 617896, 4117916; 617930, 4117901; 617984, 4117896; 618000, 4117874; 618032, 4117863; 618054, 4117849; 618052, 4117820; 618027, 4117810; 618025, 4117766; 618067, 4117760; 618067, 4117728; 618144, 4117713; 618222, 4117720; 618262, 4117696; 618278, 4117655; 618256, 4117633; 618279, 4117591; 618286, 4117527; 618323, 4117503; 618317, 4117455; 618359, 4117439; 618413, 4117435; 618427, 4117461; 618457, 4117471; 618489, 4117476; 618489, 4117501; 618516, 4117516; 618545, 4117506; 618559, 4117469; 618589, 4117466; 618618, 4117430; 618642, 4117442; 618642, 4117477; 618684, 4117503; 618711, 4117527; 618730, 4117550; 618760, 4117564; 618797, 4117553; 618818, 4117545; 618836, 4117511; 618852, 4117500; 618877, 4117494; 618874, 4117457; 618894, 4117445; 618932, 4117427; 618932, 4117442; 618957, 4117445; 618976, 4117432; 618976, 4117393; 619062, 4117364; 619092, 4117373; 619113, 4117369; 619111, 4117323; 619145, 4117283; 619062, 4117188; 619058, 4117150; 619037, 4117123; 618984, 4117044; 619147, 4117114; 619236, 4117123; 619294, 4117077; 619329, 4117080; 619357, 4117092; 619387, 4117074; 619392, 4117037; 619382, 4117011; 619414, 4117004; 619446, 4116993; 619441, 4116938; 619469, 4116920; 619483, 4116876; 619460, 4116840; 619496, 4116812; 619525, 4116780; 619536, 4116746; 619553, 4116743; 619592, 4116766; 619630, 4116739; 619626, 4116701; 619641, 4116687; 619677, 4116701; 619706, 4116681; 619753, 4116690; 619769, 4116667; 619745, 4116648; 619789, 4116592; 619775, 4116566; 619685, 4116547; 619768, 4116513; 619764, 4116489; 619720, 4116399; 619758, 4116390; 619725, 4116298; 619792, 4116295; 619827, 4116268; 619843, 4116231; 619832, 4116189; 619956, 4116200; 620026, 4116196; 620027, 4116146; 620037, 4116090; 619981, 4115976; 620018, 4115910; 619981, 4115866; 619891, 4115850; 619903, 4115813; 619978, 4115796; 619996, 4115766; 620072, 4115793; 620111, 4115763; 620096, 4115712; 620116, 4115680; 620199, 4115750; 620314, 4115703; 620320, 4115653; 620356, 4115633; 620401, 4115659; 620444, 4115506; 620503, 4115495; 620571, 4115549; 620617, 4115454; 620788, 4115324; 620903, 4115266; 620995, 4115260; 621058, 4115374; 621097, 4115435; 621107, 4115413; 621122, 4115390; 621149, 4115374; 621156, 4115344; 621200, 4115254; 621608, 4115039; 621668, 4115004; 621715, 4114977; 621744, 4114932; 621789, 4114879; 621788, 4114836; 621788, 4114810; 621768, 4114773; 621773, 4114740; 621772, 4114662; 621773, 4114638; 621766, 4114618; 621782, 4114597; 621842, 4114600; 621857, 4114586; 621875, 4114583; 621881, 4114552; 621827, 4114518; 621800, 4114474; 621727, 4114441; 621038, 4114280; 620937, 4114292; 620831, 4114261; 620046, 4114525; 619795, 4114578; 619736, 4114633; 619738, 4114702; 619674, 4114732; 619453, 4114356; 619351, 4114262; 619197, 4114240; 619041, 4114293; 618895, 4114410; 618599, 4114424; 618361, 4114506; 618185, 4114530; 617740, 4115026; 617095, 4115754; 616662, 4116332; 616403, 4116568; 616244, 4116697; 616203, 4116810; 616126, 4117005; 615933, 4117032; 615789, 4117099; 615722, 4117186; 615933, 4117280; 616097, 4117217; 616167, 4117292; 616030, 4117460; 615914, 4117446; 615683, 4117614; 615229, 4117907; 615099, 4117854; 615457, 4117510; 615390, 4117438; 615003, 4117751; 614469, 4118133; 613965, 4118481; 613890, 4118524; 613954, 4118666; 613790, 4118831; 613636, 4118894; 613636, 4119149; 613557, 4119283; 613403, 4119531; 613254, 4119651; 613077, 4119606; 612893, 4119620; 612832, 4119665; 612853, 4119708; 612847, 4119729; 612784, 4119705; 612770, 4119740; 612715, 4119760; 612640, 4119824; 612618, 4119872; 612583, 4119977; 612062, 4120400; 611707, 4120758; 611686, 4120748; 611631, 4120824; 611294, 4121127; returning to 611242, 4121203.

(ii) *Note*: Unit 5 for Bay checkerspot butterfly is depicted on the map in paragraph (10)(ii) of this entry.



(11) Unit 6: Tulare Hill, Santa Clara County, California. From USGS 1:24,000 scale quadrangles San Jose East, Lick Observatory, Santa Teresa Hills, and Morgan Hill.

(i) Land bounded by the following UTM zone 10, NAD 1983 coordinates (E,N): 610971, 4120478; 611134, 4120435; 611200, 4120245; 611116, 4120132; 611181, 4119977; 611212, 4119824; 611280, 4119743; 611293, 4119653; 611241, 4119512; 610967, 4119335; 610786, 4119391; 610392, 4119622; 610302, 4119674; 610057, 4119813; 610117, 4119846; 609929, 4120074; 609799, 4120229; 609915, 4120374; 609819, 4120430; 610113, 4120749; 610310, 4120833; 610459, 4120769; 610531, 4120847; 610797, 4120659; 610776, 4120464; 610843, 4120449; returning to 610971, 4120478.

(ii) *Note*: Unit 6 for Bay checkerspot butterfly is depicted on the map in paragraph (10)(ii) of this entry.

(12) Unit 7: Santa Teresa Hills, Santa Clara County, California. From USGS 1:24,000 scale quadrangles San Jose East, Lick Observatory, Santa Teresa Hills, and Morgan Hill.

(i) Land bounded by the following UTM zone 10, NAD 1983 coordinates (E,N): 608447, 4119332; 608474, 4119309; 608576, 4119335; 608615, 4119330; 608689, 4119306; 608706, 4119356; 608749, 4119377; 608758, 4119360; 608746, 4119302; 608760, 4119230; 608722, 4119159; 608656, 4119124; 608669, 4119080; 608762, 4119101; 608846, 4119140; 608892, 4119222; 609000, 4119082; 609117, 4119040; 609190, 4119077; 609244, 4119107; 609509, 4119359; 609534, 4119358; 609548, 4119366; 609549, 4119393; 609568, 4119444; 609582, 4119466; 609606, 4119520; 609628, 4119547; 609656, 4119568; 610016, 4119783; 610228, 4119650; 610177, 4119543; 610143, 4119434; 610086, 4119368; 610019, 4119278; 609929, 4119219; 609928, 4119116; 609956, 4119070; 610001, 4119067; 610048, 4119044; 610138, 4119037; 610165, 4119006; 610240, 4118997; 610306, 4118956; 610325, 4118923; 610343, 4118915; 610381, 4118905; 610405, 4118877; 610414, 4118822; 610436, 4118812; 610464, 4118833; 610521, 4118824; 610564, 4118822; 610592, 4118815; 610612, 4118795; 610617, 4118776; 610617, 4118756; 610624, 4118735; 610650, 4118729; 610669, 4118717; 610700, 4118710; 610723, 4118718; 610757, 4118723; 610773, 4118706; 610780, 4118658; 610790, 4118646; 610787, 4118598; 610775, 4118570; 610773, 4118536; 610771, 4118519; 610782, 4118517; 610822, 4118530; 610842, 4118528; 610864, 4118520; 610880, 4118508; 610899, 4118501; 610915, 4118487; 610914, 4118461; 610906, 4118446; 610889, 4118430; 610886, 4118417; 610902, 4118393; 610900, 4118367; 610896, 4118340; 610912, 4118330; 610934, 4118310; 610940, 4118282; 610932, 4118260; 610935, 4118251; 610949, 4118231; 610955, 4118207; 610957, 4118181; 610964, 4118176; 610991, 4118168; 610989, 4118152; 610992, 4118113; 611000, 4118109; 611019, 4118109; 611041, 4118121; 611066, 4118127; 611096, 4118122; 611114, 4118125; 611160, 4118145; 611185, 4118147; 611220, 4118143; 611254, 4118124; 611259, 4118093; 611250, 4118046; 611250, 4118012; 611247, 4117972; 611255, 4117966; 611276, 4117974; 611292, 4117975; 611331, 4117963; 611374, 4117922; 611421, 4117919; 611446, 4117915; 611462, 4117908; 611475, 4117891; 611511, 4117839; 611533, 4117814; 611554, 4117805; 611567, 4117772; 611556, 4117741; 611560, 4117712; 611562, 4117677; 611517, 4117611; 611572, 4117536; 611578, 4117500; 611570, 4117478; 611547, 4117451; 611503, 4117429; 611458, 4117422; 611405, 4117439; 611323, 4117480; 611291, 4117518; 611268, 4117566; 611230, 4117618; 611169, 4117625; 611100, 4117637; 611072, 4117668; 611021, 4117766; 610962, 4117743; 610985, 4117678; 611007, 4117611; 610957, 4117563; 610836, 4117565; 610800, 4117537; 610773, 4117534; 610752, 4117518; 610733, 4117438; 610716, 4117404; 610610, 4117272; 610572, 4117243; 610501, 4117238; 610412, 4117262; 610370, 4117294; 610350, 4117341; 610281, 4117354; 610220, 4117381; 610179, 4117413; 610146, 4117441; 610127, 4117492; 610058, 4117531; 609819, 4117309; 609692, 4117372; 609593, 4117353; 609526, 4117409; 609460, 4117386; 609405, 4117409; 609091, 4117456; 608872, 4117364; 608840, 4117297; 608733, 4117262; 608502, 4117237; 608524, 4117204; 608603, 4117138; 608723, 4117081; 608830, 4117067; 608934, 4117066; 609071, 4117093; 609181, 4117210; 609225, 4117208; 609240, 4117159; 609163, 4117083; 609228, 4117009; 609303, 4116981; 609325, 4117003; 609303, 4117052; 609302, 4117087; 609324, 4117084; 609349, 4117043; 609401, 4117059; 609409, 4117162; 609430, 4117203; 609458, 4117190; 609471, 4117150; 609435, 4117016; 609506, 4116986; 609350, 4116852; 609333, 4116880; 609256, 4116873; 609228, 4116889; 609205, 4116873; 609163, 4116848; 609131, 4116849; 609102, 4116863; 609061, 4116836; 609011, 4116841; 608843, 4116838; 608804, 4116864; 608758, 4116878; 608714, 4116867; 608672, 4116827; 608625, 4116899; 608542, 4116933; 608489, 4117019; 608426, 4117079; 608382, 4117115; 608343, 4117134; 608305, 4117136; 608259, 4117127; 608216, 4117129; 608210, 4117170; 608197, 4117192; 608138, 4117197; 608062, 4117234; 608020, 4117241; 607997, 4117227; 607959, 4117228; 607963, 4117262; 607941, 4117301; 607896, 4117334; 607909, 4117377; 608067, 4117348; 608170, 4117343; 608289, 4117332; 608298, 4117392; 608239, 4117418; 608166, 4117436; 608066, 4117450; 608012, 4117453; 607942, 4117507; 607907, 4117572; 607938, 4117605; 607924, 4117642; 607848, 4117626; 607678, 4117759; 607397, 4117766; 607129, 4117689; 606990, 4117599; 606767, 4117931; 606643, 4118119; 606701, 4118302; 606742, 4118358; 606828, 4118289; 606858, 4118323; 606693, 4118461; 606644, 4118391; 606609, 4118328; 606542, 4118254; 606425, 4118183; 606179, 4118078; 605438, 4118128; 605263, 4118203; 605074, 4118293; 604975, 4118365; 605178, 4118600; 604548, 4118947; 604625, 4119145; 604788, 4119569; 604936, 4119955; 604817, 4119974; 604817, 4120089; 604555, 4120119; 604414, 4120139; 604283, 4120149; 604549, 4120858; 604561, 4120889; 604564, 4120912; 604561, 4120952; 604572, 4120972; 604606, 4120977; 604622, 4120963; 604624, 4120946; 604628, 4120920; 604645, 4120904; 604680, 4120899; 604729, 4120910; 604729, 4120867; 604787, 4120831; 604810, 4120814; 604844, 4120783; 604890, 4120765; 604924, 4120799; 604948, 4120835; 604970, 4120831; 604986, 4120786; 605003, 4120742; 605064, 4120714; 605093, 4120722; 605132, 4120760; 605163, 4120770; 605185, 4120744; 605219, 4120689; 605272, 4120656; 605329, 4120668; 605395, 4120706; 605405, 4120671; 605424, 4120642; 605452, 4120646; 605473, 4120657; 605509, 4120656; 605548, 4120664; 605588, 4120656; 605614, 4120682; 605643, 4120689; 605647, 4120649; 605679, 4120645; 605711, 4120633; 605746, 4120610; 605728, 4120571; 605712, 4120545; 605685, 4120526; 605653, 4120525; 605613, 4120522; 605608, 4120506; 605619, 4120496; 605645, 4120487; 605709, 4120480; 605729, 4120443; 605749, 4120426; 605775, 4120431; 605792, 4120456; 605809, 4120473; 605836, 4120498; 605864, 4120508; 605879, 4120512; 605904, 4120506; 605928, 4120490; 605945, 4120465; 605949, 4120449; 605945, 4120432; 605953, 4120401; 605971, 4120390; 606001, 4120399; 606040, 4120411; 606076, 4120422; 606105, 4120433; 606133, 4120448; 606158, 4120474; 606200, 4120494; 606241, 4120516; 606272, 4120540; 606310, 4120548; 606353, 4120567; 606378, 4120587; 606394, 4120604; 606407, 4120596; 606422, 4120586; 606474, 4120580; 606521, 4120577; 606553, 4120566; 606589, 4120544; 606625, 4120524; 606653, 4120496; 606653, 4120520; 606626, 4120579; 606625, 4120607; 606650, 4120613; 606703, 4120612; 606736, 4120611; 606751, 4120586; 606748, 4120556; 606762, 4120552; 606804, 4120566; 606861, 4120594; 606917, 4120615; 606968, 4120624; 607030, 4120627; 607084, 4120614; 607139, 4120594; 607197, 4120614; 607194, 4120598; 607195, 4120569; 607195, 4120549; 607188, 4120521; 607174, 4120507; 607179, 4120472; 607191, 4120455; 607214, 4120443; 607247, 4120427; 607277, 4120408; 607280, 4120373; 607298, 4120340; 607305, 4120307; 607332,

4120290; 607364, 4120276; 607395, 4120272; 607414, 4120266; 607434, 4120261; 607453, 4120267; 607461, 4120254; 607462, 4120237; 607458, 4120220; 607449, 4120201; 607437, 4120184; 607421, 4120162; 607397, 4120136; 607370, 4120088; 607327, 4120023; 607297, 4119983; 607182, 4119926; 607113, 4119874; 607064, 4119832; 607020, 4119802; 606938, 4119784; 606848, 4119768; 606800, 4119732; 606822, 4119719; 606891, 4119713; 606982, 4119681; 607021, 4119632; 607033, 4119550; 607049, 4119507; 607064, 4119439; 607068, 4119404; 607099, 4119389; 607118, 4119342; 607152, 4119323; 607181, 4119286; 607199, 4119244; 607188, 4119204; 607145, 4119123; 607167, 4119087; 607256, 4119070; 607355, 4119123; 607619, 4119104; 607673, 4119099; 607702, 4119117; 607733, 4119120; 607774, 4119125; 607775, 4119165; 607814, 4119200; 607861, 4119222; 607909, 4119212; 607985, 4119188; 608024, 4119217; 607998, 4119236; 608004, 4119270; 608048, 4119275; 608100, 4119228; 608157, 4119228; 608207, 4119263; 608269, 4119268; 608314, 4119280; 608363, 4119287; 608409, 4119297; 608425, 4119321; returning to 608447, 4119332.

(ii) *Note*: Unit 7 for Bay checkerspot butterfly is depicted on the map in paragraph (10)(ii) of this entry.

(13) Unit 8: Calero Reservoir, Santa Clara County, California. From USGS 1:24,000 scale quadrangles San Jose East, Lick Observatory, Santa Teresa Hills, and Morgan Hill.

(i) Land bounded by the following UTM zone 10, NAD 1983 coordinates (E,N): 605493, 4116867; 605661, 4116896; 605718, 4116853; 605799, 4116844; 605856, 4116923; 605938, 4116906; 606045, 4116752; 606122, 4116520; 606156, 4116383; 606165, 4116288; 606051, 4116182; 606069, 4116127; 606132, 4116039; 606177, 4116025; 606230, 4116083; 606269, 4115997; 606336, 4116015; 606337, 4115938; 606300, 4115931; 606262, 4115861; 606326, 4115838; 606387, 4115849; 606433, 4115829; 606519, 4115734; 606574, 4115740; 606867, 4115901; 606937, 4115907; 606994, 4115890; 607043, 4115856; 607081, 4115818; 607068, 4115755; 607090, 4115693; 607144, 4115664; 607241, 4115643; 607290, 4115588; 607342, 4115554; 607159, 4115391; 607119, 4115368; 607073, 4115389; 607047, 4115495; 606903, 4115584; 606837, 4115586; 606861, 4115560; 606919, 4115549; 606944, 4115530; 606950, 4115482; 606978, 4115469; 606996, 4115393; 606975, 4115370; 606902, 4115402; 606901, 4115371; 606921, 4115339; 606904, 4115306; 606880, 4115337; 606861, 4115296; 606876, 4115251; 606935, 4115241; 606958, 4115263; 606986, 4115195; 607026, 4115199; 607027, 4115255; 607060, 4115266; 607082, 4115207; 607089, 4115149; 607179, 4115149; 607266, 4115115; 607415, 4115156; 607464, 4115136; 607555, 4115164; 607716, 4115136; 607712, 4115003; 607657, 4114850; 607604, 4114753; 607518, 4114686; 607611, 4114702; 607791, 4114919; 607826, 4114984; 607808, 4115366; 607972, 4115293; 608186, 4115186; 608470, 4115055; 608850, 4114830; 608992, 4114854; 609129, 4114812; 609117, 4115020; 608880, 4115233; 608512, 4115397; 608059, 4115492; 608029, 4115644; 607959, 4115592; 607880, 4115595; 607966, 4115726; 608052, 4115817; 608155, 4115878; 608258, 4115908; 608358, 4115910; 608437, 4115938; 608556, 4115906; 608545, 4115971; 608608, 4115990; 608682, 4115957; 608750, 4115901; 608776, 4115906; 608815, 4115934; 608892, 4115927; 608946, 4115873; 608948, 4115826; 608906, 4115731; 608967, 4115710; 609032, 4115647; 609481, 4115100; 609477, 4115025; 609577, 4114951; 609821, 4114856; 609866, 4114711; 609880, 4114582; 610030, 4114486; 610081, 4114398; 610120, 4114330; 610159, 4114322; 610155, 4114287; 610124, 4114240; 610287, 4114038; 610327, 4113965; 610319, 4113865; 610257, 4113742; 610202, 4113705; 610079, 4113729; 609993, 4113754; 609891, 4113813; 609798, 4113845; 609735, 4113885; 609737, 4113963; 609663, 4114035; 609563, 4114088; 609524, 4114248; 609455, 4114356; 609212, 4114403; 609004, 4114676; 608945, 4114439; 608774, 4114422; 608635, 4114302; 608547, 4114164; 608453, 4113729; 608135, 4113470; 608079, 4113433; 608043, 4113356; 608038, 4113230; 608012, 4113254; 607980, 4113238; 607947, 4113270; 607907, 4113243; 607855, 4113282; 607814, 4113362; 607802, 4113545; 607694, 4113606; 607526, 4113700; 607691, 4113754; 607691, 4114069; 607465, 4114176; 607326, 4114660; 606930, 4114755; 606709, 4114597; 606401, 4114641; 606250, 4114805; 605916, 4114924; 605715, 4115195; 605293, 4115604; 605224, 4115604; 605180, 4115755; 605224, 4115869; 605035, 4116101; 605042, 4116215; 605067, 4116309; 605123, 4116366; 605229, 4116454; 605338, 4116598; 605387, 4116705; returning to 605493, 4116867.

(ii) *Note*: Unit 8 for Bay checkerspot butterfly is depicted on the map in paragraph (10)(ii) of this entry.

(14) Unit 9: Kalana Hills, Santa Clara County, California. From USGS 1:24,000 scale quadrangles San Jose East, Lick Observatory, Santa Teresa Hills, and Morgan Hill.

(i) Subunit 9A: Land bounded by the following UTM zone 10, NAD 1983 coordinates (E,N): 612463, 4115364; 612548, 4115283; 612611, 4115228; 612581, 4115190; 612560, 4115157; 612725, 4114962; 612697, 4114924; 612640, 4114916; 612512, 4114806; 612469, 4114770; 612456, 4114706; 612331, 4114635; 612276, 4114621; 612159, 4114668; 612036, 4114796; 611975, 4114842; 611928, 4114901; 611857, 4114927; 611811, 4114924; 611806, 4115198; 611735, 4115382; 611703, 4115487; 611772, 4115526; 611741, 4115600; 611742, returning to 4115605; 612028, 4115820; returning to 612463, 4115364.

(ii) Subunit 9B: Land bounded by the following UTM zone 10, NAD 1983 coordinates (E,N): 613292, 4114458; 613477, 4114328; 613645, 4114236; 613859, 4114112; 613800, 4114081; 613704, 4114080; 613628, 4114115; 613571, 4114099; 613525, 4114035; 613464, 4114059; 613430, 4114072; 613389, 4114098; 613269, 4114176; 613135, 4114270; 613043, 4114292; 612952, 4114245; 612882, 4114296; 612769, 4114341; 612771, 4114386; 612807, 4114455; 612779, 4114504; 612761, 4114557; 612827, 4114609; 612910, 4114621; 613020, 4114550; 613029, 4114509; 612967, 4114492; 612953, 4114422; 612990, 4114368; 613090, 4114360; 613112, 4114463; 613178, 4114499; returning to 613292, 4114458;

(iii) *Note*: Unit 9 for Bay checkerspot butterfly is depicted on the map in paragraph (10)(ii) of this entry.

(15) Unit 10: Hale, Santa Clara County, California. From USGS 1:24,000 scale quadrangles San Jose East, Lick Observatory, Santa Teresa Hills, and Morgan Hill.

(i) Unit 10: Land bounded by the following UTM zone 10, NAD 1983 coordinates (E,N): 617448, 4111989; 617422, 4111978; 617343, 4111978;

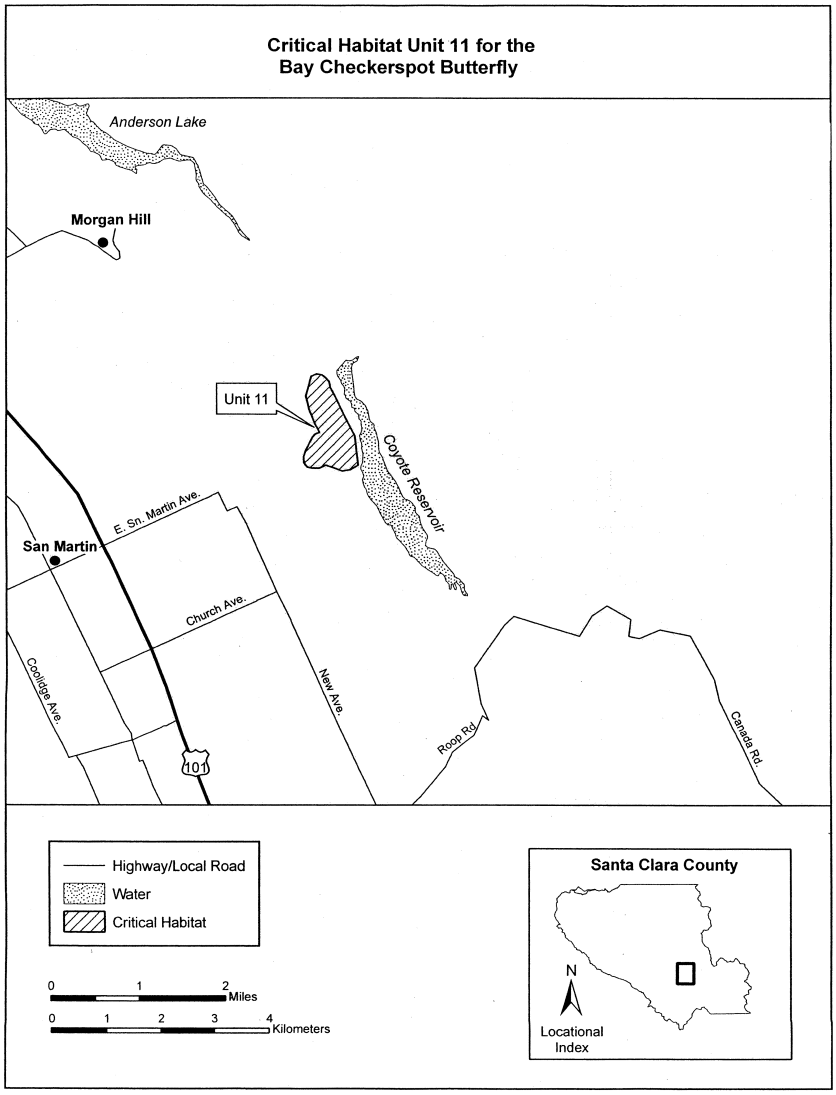
617295, 4111947; 617252, 4111862; 617269, 4111828; 617405, 4111774; 617445, 4111797; 617501, 4111797; 617512, 4111746; 617589, 4111729; 617733, 4111766; 618083, 4111853; 618116, 4111766; 618023, 4111705; 617936, 4111647; 617899, 4111684; 617764, 4111596; 617933, 4111368; 617964, 4111303; 617953, 4111188; 617891, 4111138; 617937, 4111083; 617919, 4111040; 617865, 4111014; 617798, 4111069; 617586, 4110876; 617618, 4110838; 617504, 4110738; 617459, 4110704; 617380, 4110673; 617197, 4110835; 617009, 4111119; 616981, 4111133; 616936, 4111110; 616925, 4111147; 616908, 4111187; 616885, 4111204; 616843, 4111232; 616817, 4111274; 616809, 4111303; 616781, 4111297; 616758, 4111257; 616724, 4111221; 616713, 4111159; 616744, 4111088; 616724, 4111060; 616730, 4111037; 616789, 4110983; 616702, 4110933; 616668, 4110952; 616620, 4110952; 616611, 4110901; 616436, 4111062; 616394, 4111037; 616410, 4110989; 616472, 4110988; 616532, 4110930; 616523, 4110872; 616555, 4110831; 616077, 4110537; 616073, 4110327; 615914, 4110402; 615846, 4110431; 615912, 4110524; 615761, 4110576; 615745, 4110646; 615715, 4110728; 615645, 4110790; 615684, 4110906; 615779, 4110867; 615779, 4110825; 615918, 4110725; 616038, 4110856; 615936, 4110930; 615947, 4111077; 615894, 4111105; 615830, 4111216; 615902, 4111306; 615866, 4111429; 615933, 4111449; 616044, 4111449; 616147, 4111428; 616225, 4111410; 616275, 4111430; 616313, 4111483; 616368, 4111489; 616399, 4111520; 616394, 4111579; 616380, 4111625; 616430, 4111650; 616484, 4111622; 616498, 4111585; 616555, 4111562; 616671, 4111591; 616659, 4111653; 616685, 4111715; 616741, 4111780; 616846, 4111829; 616677, 4112120; 616760, 4112261; 616792, 4112343; 617011, 4112356; 617160, 4112394; 617286, 4112306; 617433, 4112045; returning to 617448, 4111989 .

(ii) *Note*: Unit 10 for Bay checkerspot butterfly is depicted on the map in paragraph (10)(ii) of this entry.

(16) Unit 11: Bear Ranch, Santa Clara County, California. From USGS 1:24,000 scale quadrangle Gilroy.

(i) Land bounded by the following UTM zone 10, NAD 1983 coordinates (E,N): 628304, 4108774; 628402, 4108819; 628507, 4108797; 628590, 4108729; 628635, 4108675; 628659, 4108564; 628747, 4108397; 628931, 4108012; 629104, 4107674; 629171, 4107133; 629022, 4107043; 628875, 4107022; 628732, 4107075; 628575, 4107128; 628449, 4107072; 628322, 4107074; 628234, 4107094; 628173, 4107173; 628166, 4107286; 628210, 4107426; 628327, 4107650; 628375, 4107703; 628458, 4107736; 628368, 4107898; 628263, 4108172; 628208, 4108414; returning to 628304, 4108774.

(ii) *Note*: Map of Unit 11 for Bay checkerspot butterfly follows:

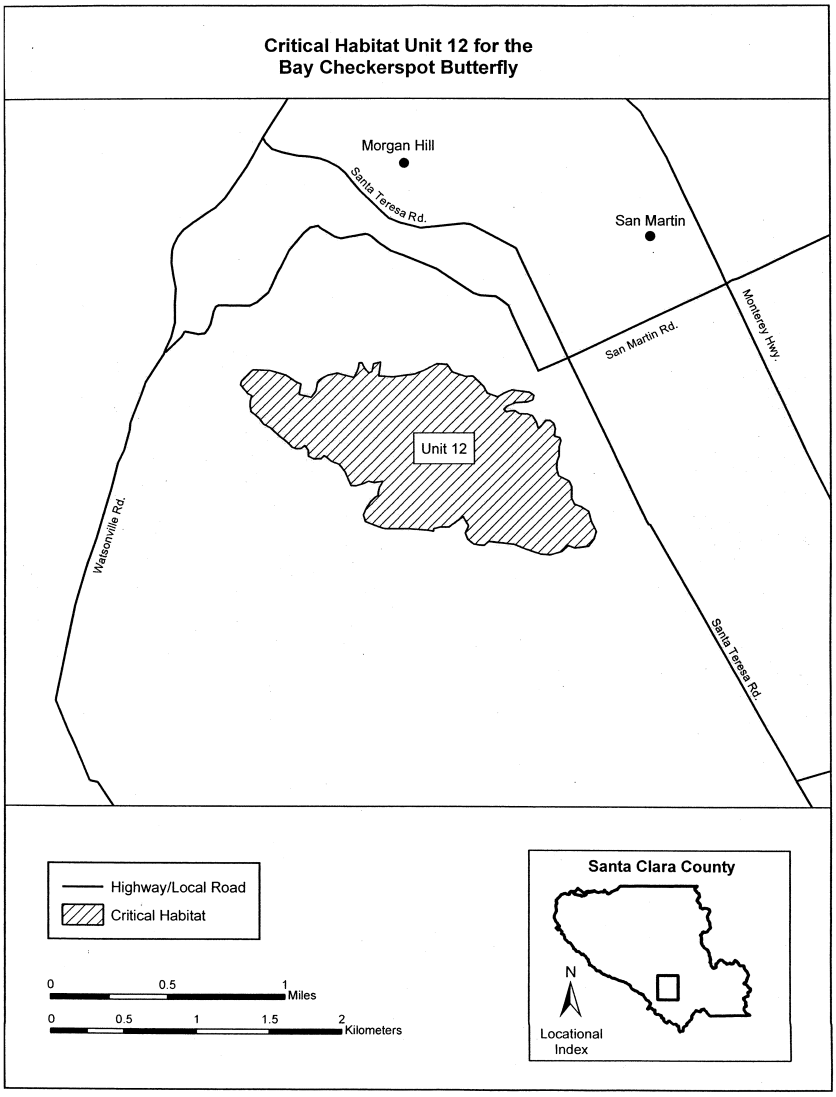


(17) Unit 12: San Martin, Santa Clara County, California. From USGS 1:24,000 scale quadrangles Mt. Madonna and Gilroy.

(i) Land bounded by the following UTM zone 10, NAD 1983 coordinates (E,N): 622150, 4104262; 622178, 4104216; 622192, 4104170; 622217, 4104195; 622241, 4104226; 622274, 4104226; 622296, 4104208; 622309, 4104171; 622302, 4104120; 622340, 4104110; 622347, 4104088; 622336, 4104047; 622334, 4103984; 622320, 4103948; 622317, 4103898; 622330, 4103845; 622404, 4103809; 622421, 4103769; 622421, 4103689; 622441, 4103649; 622487, 4103631; 622538, 4103599; 622557, 4103529; 622591, 4103461; 622575, 4103406; 622538, 4103358; 622441, 4103346; 622399, 4103363; 622352, 4103322; 622274, 4103300; 622206, 4103304; 622098, 4103341; 622020, 4103370; 621920, 4103382; 621843, 4103390; 621812, 4103362; 621779, 4103365; 621739, 4103372; 621700, 4103404; 621682, 4103449; 621705, 4103496; 621667, 4103560; 621569, 4103489; 621509, 4103489; 621463, 4103477; 621464, 4103459; 621411, 4103467; 621348, 4103472; 621288, 4103477; 621223, 4103476; 621183, 4103476; 621127, 4103476; 621079, 4103490; 621030, 4103508; 620988, 4103525; 620973, 4103571; 620996, 4103623; 621025,

4103666; 621055, 4103695; 621076, 4103707; 621079, 4103733; 621087, 4103764; 621112, 4103805; 621046, 4103796; 621009, 4103805; 620979, 4103791; 620922, 4103774; 620887, 4103775; 620871, 4103811; 620845, 4103873; 620806, 4103922; 620751, 4103944; 620702, 4103984; 620679, 4103961; 620627, 4103961; 620593, 4103979; 620591, 4104020; 620568, 4104053; 620542, 4104032; 620509, 4104030; 620482, 4104039; 620450, 4104073; 620393, 4104116; 620330, 4104174; 620283, 4104200; 620255, 4104240; 620230, 4104262; 620197, 4104288; 620191, 4104325; 620193, 4104362; 620203, 4104399; 620176, 4104412; 620126, 4104472; 620132, 4104499; 620211, 4104578; 620245, 4104578; 620329, 4104574; 620440, 4104541; 620510, 4104492; 620543, 4104480; 620529, 4104405; 620612, 4104386; 620646, 4104431; 620657, 4104489; 620672, 4104509; 620728, 4104541; 620794, 4104556; 620852, 4104539; 620909, 4104525; 620931, 4104568; 620942, 4104598; 620946, 4104627; 620968, 4104627; 620988, 4104586; 621013, 4104556; 621034, 4104566; 621046, 4104621; 621098, 4104634; 621083, 4104537; 621176, 4104528; 621262, 4104540; 621334, 4104549; 621398, 4104575; 621488, 4104622; 621559, 4104617; 621598, 4104563; 621688, 4104533; 621739, 4104536; 621811, 4104464; 621836, 4104417; 621908, 4104391; 621951, 4104417; 622007, 4104440; 622132, 4104423; 622160, 4104403; 622153, 4104371; 622118, 4104356; 622033, 4104350; 622004, 4104340; 621974, 4104326; 621951, 4104304; 621969, 4104286; 621996, 4104293; 622032, 4104294; 622060, 4104274; 622115, 4104272; returning to 622150, 4104262.

(ii) *Note:* Map of Unit 12 for Bay checkerspot butterfly follows:



(18) Unit 13: Kirby, Santa Clara County, California. From USGS 1:24,000 scale quadrangles San Jose East, Lick Observatory, Santa Teresa Hills, and Morgan Hill.

(i) Land bounded by the following UTM zone 10, NAD 1983 coordinates (E,N): 614073, 4122412; 613927, 4122313; 613818, 4122194; 613722, 4121982; 613609, 4121926; 613463, 4121895; 613322, 4121923; 613199, 4122005; 613063, 4121982; 612938, 4122012; 612845, 4121942; 612809, 4121823; 612723, 4121727; 612574, 4121711; 612435, 4121734; 612295, 4121716; 612154, 4121723; 612079, 4121699; 612017, 4121720; 611996, 4121655; 611902, 4121653; 611790, 4121695; 611662, 4121642; 611579, 4121554; 611512, 4121447; 611422, 4121445; 611365, 4121419; 611310, 4121420; 611247, 4121377; 610975, 4121590; 610770, 4121774; 610611, 4121899; 610472, 4122085; 610310, 4122006; 610106, 4122145; 610077, 4122227; 610126, 4122316; 610217, 4122395; 610179, 4122447; 610133, 4122430; 610089, 4122512; 610125, 4122559; 610156, 4122607; 610157, 4122653; 610128, 4122660; 610058, 4122641; 610016, 4122607; 609977, 4122674; 610091, 4122763; 610187, 4122847; 610220, 4122921; 610249, 4122977; 610374, 4123102; 610254, 4123181; 610015,

4123335; 609613, 4123583; 609641, 4123630; 609399, 4123790; 609324, 4123843; 609182, 4124041; 608934, 4123924; 608736, 4124027; 608538, 4124145; 608423, 4124256; 608167, 4124471; 608065, 4124633; 608059, 4124666; 607803, 4124871; 607677, 4124973; 607615, 4125109; 607637, 4125224; 607756, 4125351; 607593, 4125474; 607351, 4125490; 607272, 4125663; 607018, 4125820; 606980, 4125845; 606948, 4125876; 606896, 4125972; 606890, 4125996; 606845, 4125998; 606796, 4126045; 606753, 4126055; 606663, 4126127; 606595, 4126178; 606463, 4126353; 606314, 4126287; 606282, 4126331; 606153, 4126428; 605939, 4126505; 605841, 4126533; 605785, 4126693; 605832, 4126844; 605701, 4126851; 605621, 4127118; 605715, 4127161; 605847, 4127159; 605992, 4127130; 606076, 4127058; 606215, 4127099; 606422, 4127010; 606465, 4126897; 606699, 4126796; 606886, 4126695; 607019, 4126736; 607190, 4126796; 607356, 4126935; 607437, 4127065; 607306, 4127251; 607149, 4127421; 607062, 4127440; 606910, 4127537; 606714, 4127727; 606521, 4127943; 606345, 4128015; 606227, 4128006; 606179, 4127924; 606131, 4127779; 606097, 4127827; 606067, 4127868; 605982, 4127883; 605953, 4128027; 605857, 4127996; 605761, 4128001; 605703, 4128063; 605662, 4128160; 605702, 4128211; 605770, 4128251; 605842, 4128289; 605912, 4128287; 605946, 4128220; 605992, 4128138; 606059, 4128152; 606148, 4128174; 606210, 4128152; 606324, 4128056; 606410, 4128049; 606321, 4128171; 606343, 4128210; 606614, 4128290; 606611, 4128519; 606706, 4128535; 606802, 4128525; 607015, 4128424; 607079, 4128412; 607069, 4128316; 607125, 4128227; 607190, 4128215; 607202, 4128263; 607252, 4128252; 606865, 4127849; 607067, 4127789; 607267, 4127710; 607475, 4127729; 607713, 4127722; 607817, 4127626; 607733, 4127426; 607803, 4127314; 607825, 4127248; 607762, 4127173; 607740, 4127113; 607808, 4127063; 607894, 4127046; 608043, 4127019; 608116, 4126921; 608123, 4126707; 608000, 4126634; 607880, 4126543; 607769, 4126507; 607654, 4126497; 607668, 4126413; 607779, 4126408; 607805, 4126324; 608058, 4126129; 608255, 4125992; 608610, 4125722; 608893, 4125417; 609482, 4125417; 609838, 4125398; 610196, 4125396; 610302, 4125557; 610370, 4125506; 610487, 4125492; 610584, 4125439; 610692, 4125442; 610769, 4125405; 610827, 4125316; 610877, 4125249; 610937, 4125251; 610947, 4125345; 610759, 4125562; 610815, 4125701; 610858, 4125797; 610945, 4125841; 611101, 4125858; 611199, 4125833; 611308, 4125853; 611356, 4125884; 611424, 4125805; 611461, 4125744; 611542, 4125723; 611602, 4125671; 611673, 4125610; 611808, 4125456; 611970, 4125331; 612147, 4125249; 612322, 4125103; 612539, 4124931; 612515, 4124823; 612590, 4124756; 612648, 4124664; 612753, 4124575; 612773, 4124506; 612879, 4124335; 612972, 4124219; 613073, 4124178; 613129, 4124085; 613251, 4123917; 613206, 4123339; 613193, 4122893; 613280, 4122832; 613351, 4122715; 613426, 4122657; 613489, 4122657; 613563, 4122662; 613669, 4122607; 613741, 4122596; 614073, 4122412.

(ii) *Note*: Unit 13 for Bay checkerspot butterfly is depicted on the map in paragraph (10)(ii) of this entry.

FENDER'S BLUE BUTTERFLY (*Icaricia icarioides fenderi*)

(1) Critical habitat units are depicted for Benton, Lane, Polk, and Yamhill Counties, Oregon, on the maps below.

(2) The primary constituent elements of critical habitat for Fender's blue butterfly are the habitat components that provide:

(i) Early seral upland prairie, wet prairie, or oak savanna habitat with a mosaic of low-growing grasses and forbs, an absence of dense canopy vegetation, and undisturbed subsoils;

(ii) Larval host-plants *Lupinus sulphureus* ssp. *kincaidii*, *L. arbustus*, or *L. albicaulis;*

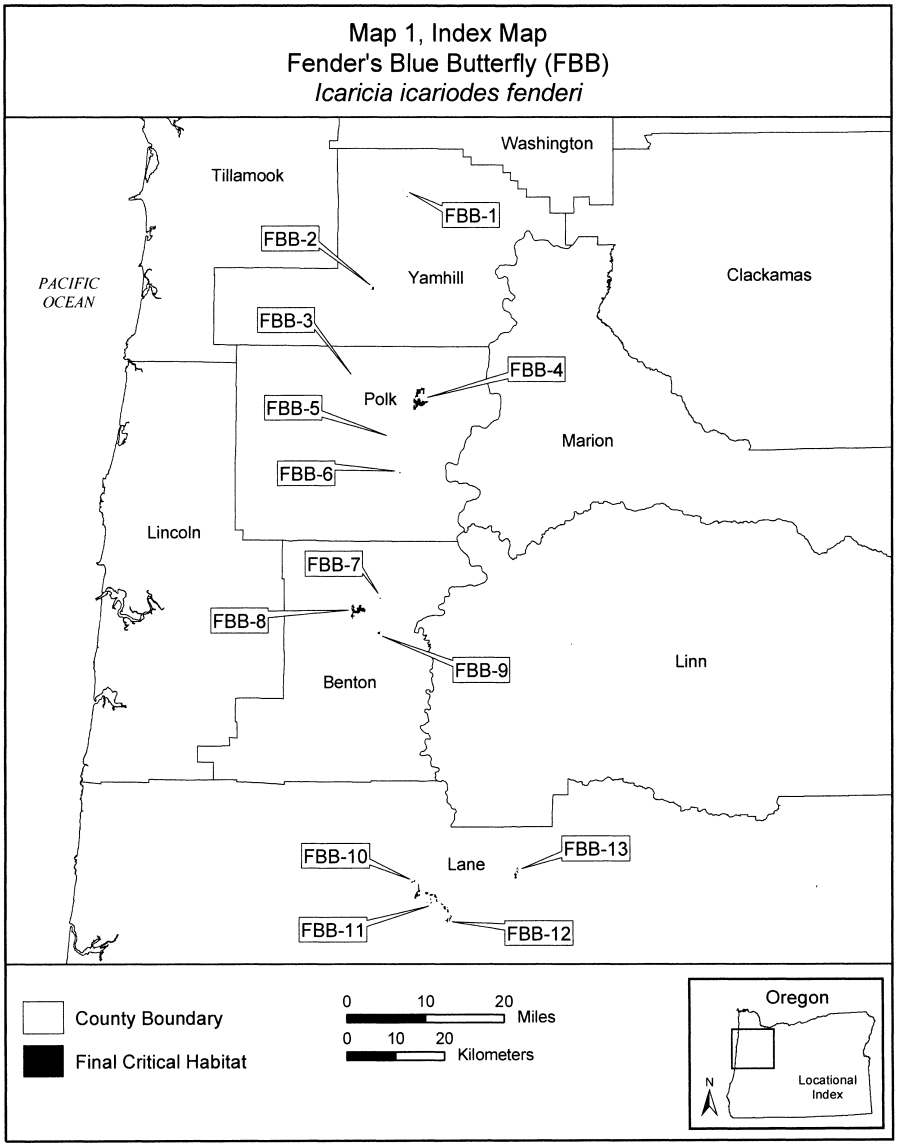
(iii) Adult nectar sources, such as: *Allium acuminatum* (tapertip onion), *Allium amplectens* (narrowleaf onion), *Calochortus tolmiei* (Tolmie's mariposa lilly), *Camassia quamash* (small camas), *Cryptantha intermedia* (clearwater cryptantha), *Eriophyllum lanatum* (wooly sunflower), *Geranium oreganum* (Oregon geranium), *Iris tenax* (toughleaf iris), *Linum angustifolium* (pale flax), *Linum perenne* (blue flax), *Sidalcea campestris* (Meadow checkermallow), *Sidalcea virgata* (rose checker-mallow), *Vicia cracca* (bird vetch), *V. sativa* (common vetch), and *V. hirsute* (tiny vetch);

(iv) Stepping-stone habitat consisting of undeveloped open areas with the physical characteristics appropriate for supporting the short-stature prairie oak savanna plant community (well-drained soils), within ~1.2 miles (~2 km) of natal lupine patches.

(3) Critical habitat does not include man-made structures (such as buildings, aqueducts, airports, roads, and other paved areas, and the land on which such structures are located) existing on the effective date of this rule and not containing one or more of the primary constituent elements.

(4) *Critical Habitat Map Units.* Data layers defining map units were created using USGS 24,000 scale Digital Ortho Quads captured in 2000. Critical habitat units were then mapped using Universal Transverse Mercator (UTM) zone 10, North American Datum (NAD) 1983 coordinates.

(5) Note: Map 1 (Index map for Fender's blue butterfly) follows:

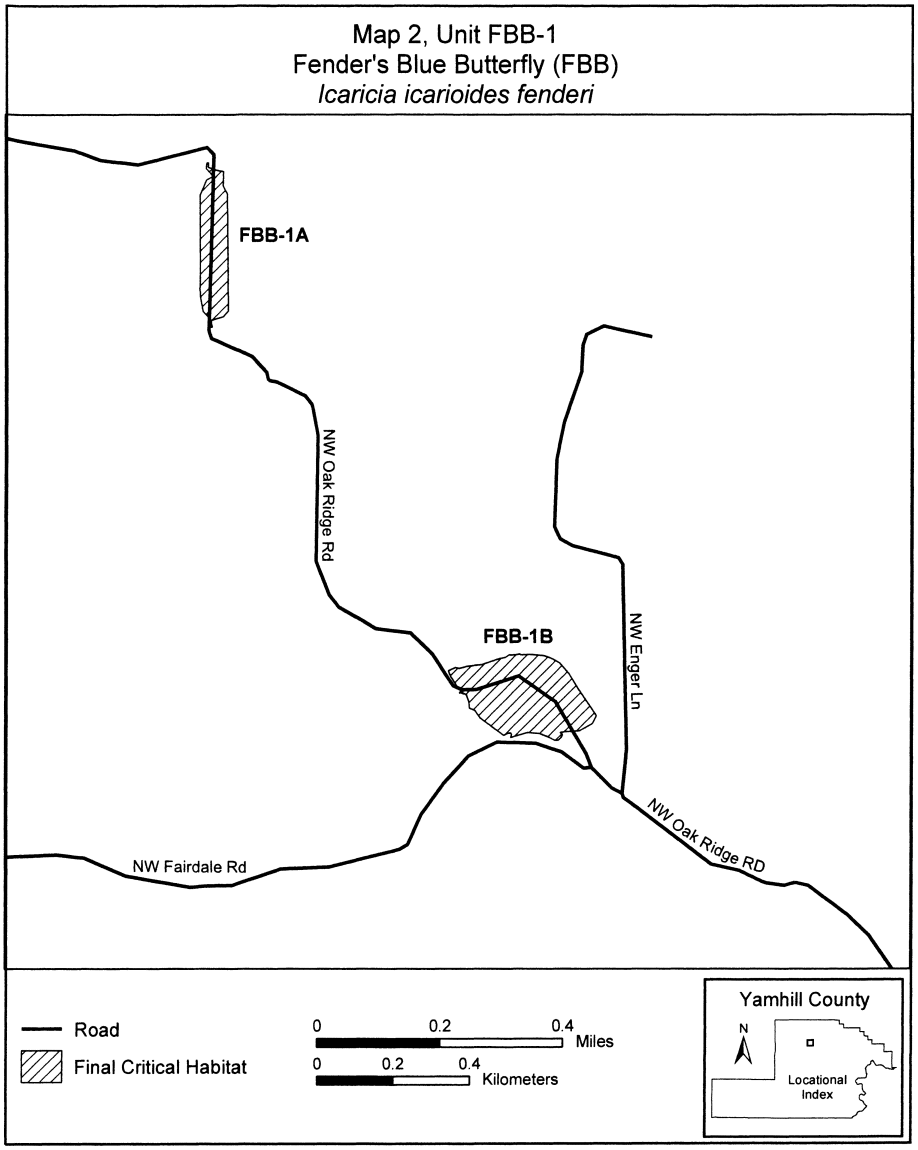


(6) Unit 1 for Fender's blue butterfly (FBB–1), Yamhill County, Oregon.

(i) Unit 1A (FBB–1A): 477069, 5022493; 477070, 5022487; 477067, 5022487; 477065, 5022493; 477063, 5022498; 477063, 5022510; 477046, 5022526; 477039, 5022566; 477039, 5022576; 477038, 5022585; 477039, 5022591; 477039, 5022824; 477055, 5022862; 477073, 5022873; 477056, 5022893; 477056, 5022901; 477057, 5022907; 477061, 5022907; 477060, 5022896; 477081, 5022888; 477101, 5022884; 477099, 5022848; 477110, 5022829; 477111, 5022528; 477098, 5022513; 477069, 5022504; 477067, 5022498; 477069, 5022493.

(ii) Unit 1B (FBB–1B): 477876, 5021643; 477881, 5021641; 477902, 5021642; 477941, 5021640; 477957, 5021634; 477983, 5021620; 478008, 5021592; 478031, 5021554; 478078, 5021484; 478068, 5021464; 478035, 5021445; 477996, 5021442; 477983, 5021440; 477989, 5021435; 477986, 5021427; 477979, 5021419; 477968, 5021420; 477956, 5021427; 477931, 5021437; 477898, 5021440; 477878, 5021434; 477854, 5021427; 477857,

5021435; 477855, 5021439; 477846, 5021438; 477836, 5021433; 477812, 5021449; 477790, 5021465; 477773, 5021478; 477759, 5021499; 477745, 5021504; 477743, 5021519; 477744, 5021519; 477737, 5021537; 477732, 5021541; 477731, 5021541; 477731, 5021541; 477731, 5021541; 477731, 5021541; 477730, 5021541; 477730, 5021541; 477729, 5021541; 477727, 5021541; 477727, 5021541; 477727, 5021541; 477727, 5021541; 477727, 5021541; 477726, 5021542; 477726, 5021542; 477726, 5021542; 477726, 5021542; 477726, 5021542; 477726, 5021542; 477726, 5021542; 477726, 5021542; 477726, 5021542; 477725, 5021543; 477724, 5021543; 477724, 5021543; 477724, 5021543; 477724, 5021543; 477723, 5021543; 477723, 5021543; 477723, 5021543; 477722, 5021543; 477722, 5021544; 477721, 5021544; 477720, 5021543; 477720, 5021543; 477720, 5021543; 477720, 5021543; 477720, 5021543; 477719, 5021543; 477719, 5021543; 477719, 5021543; 477719, 5021543; 477719, 5021543; 477719, 5021543; 477719, 5021543; 477719, 5021543; 477719, 5021543; 477719, 5021543; 477719, 5021543; 477719, 5021543; 477719, 5021543; 477718, 5021543; 477718, 5021543; 477718, 5021543; 477718, 5021544; 477718, 5021544; 477718, 5021544

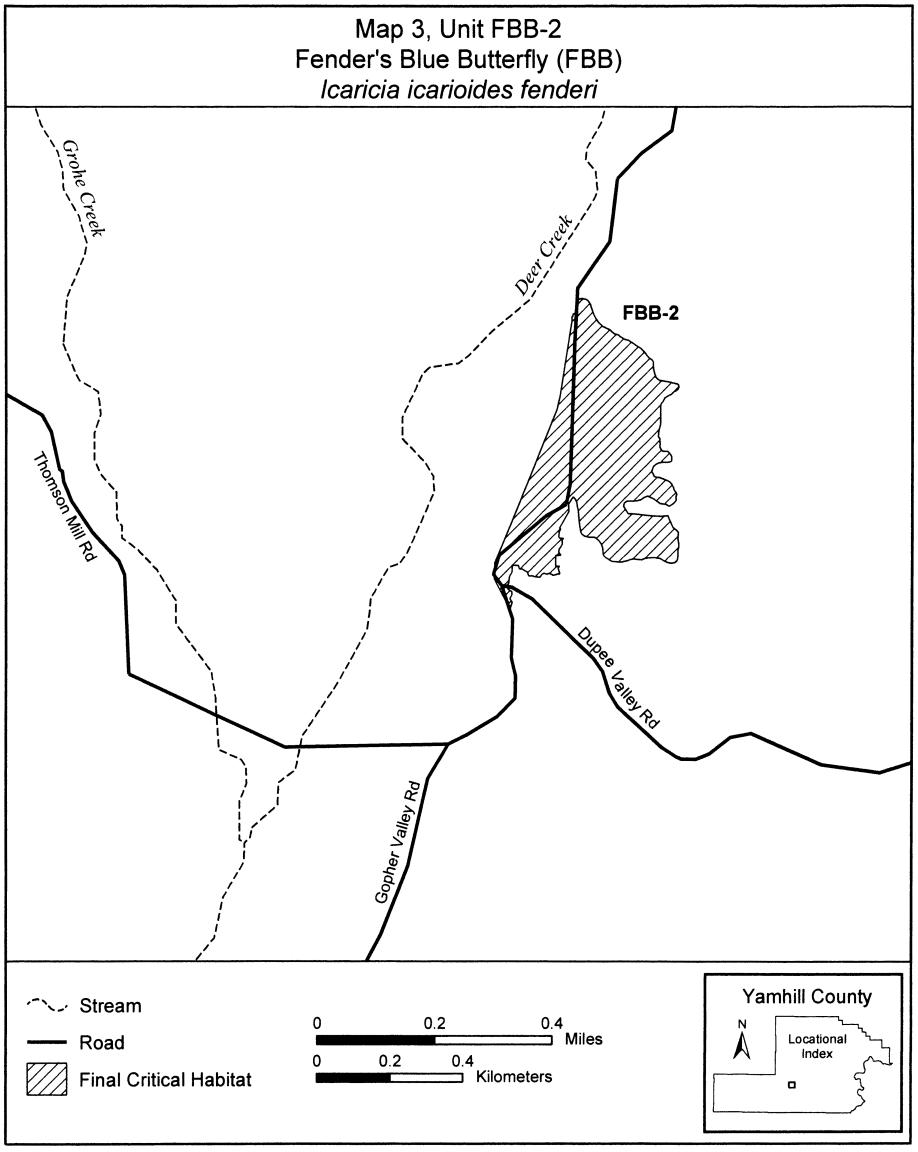


(7) Unit 2 for Fender's blue butterfly (FBB–2), Yamhill County, Oregon.

(i) Unit 2 (FBB–2): 470959, 5003231; 470965, 5003226; 470972, 5003226; 470984, 5003224; 470992, 5003223; 471004, 5003220; 471012, 5003218; 471016, 5003215; 471018, 5003209; 471014, 5003202; 471011, 5003200; 471006, 5003198; 470998, 5003191; 470991, 5003187; 470988, 5003186; 470981, 5003180; 470977, 5003176; 470973, 5003168; 470970, 5003165; 470968, 5003159; 470968, 5003151; 470968, 5003132; 470968, 5003123; 470967, 5003109; 470965, 5003099; 470962, 5003090; 470961, 5003075; 470965, 5003070; 470966, 5003065; 470967, 5003055; 470965, 5003048; 470969, 5003041; 470974, 5003036; 470979, 5003036; 470984, 5003035; 470986, 5003035; 470990, 5003032; 470995, 5003027; 470998, 5003022; 470998, 5003015; 470998, 5003010; 470994, 5003007; 470988, 5003006; 470977, 5003006; 470973, 5003006; 470963, 5003004; 470957, 5003001; 470949, 5002996; 470947, 5002994; 470945,

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(ii) Note: Map 3 (Unit 2 for Fender's blue butterfly (FBB–2)) follows:

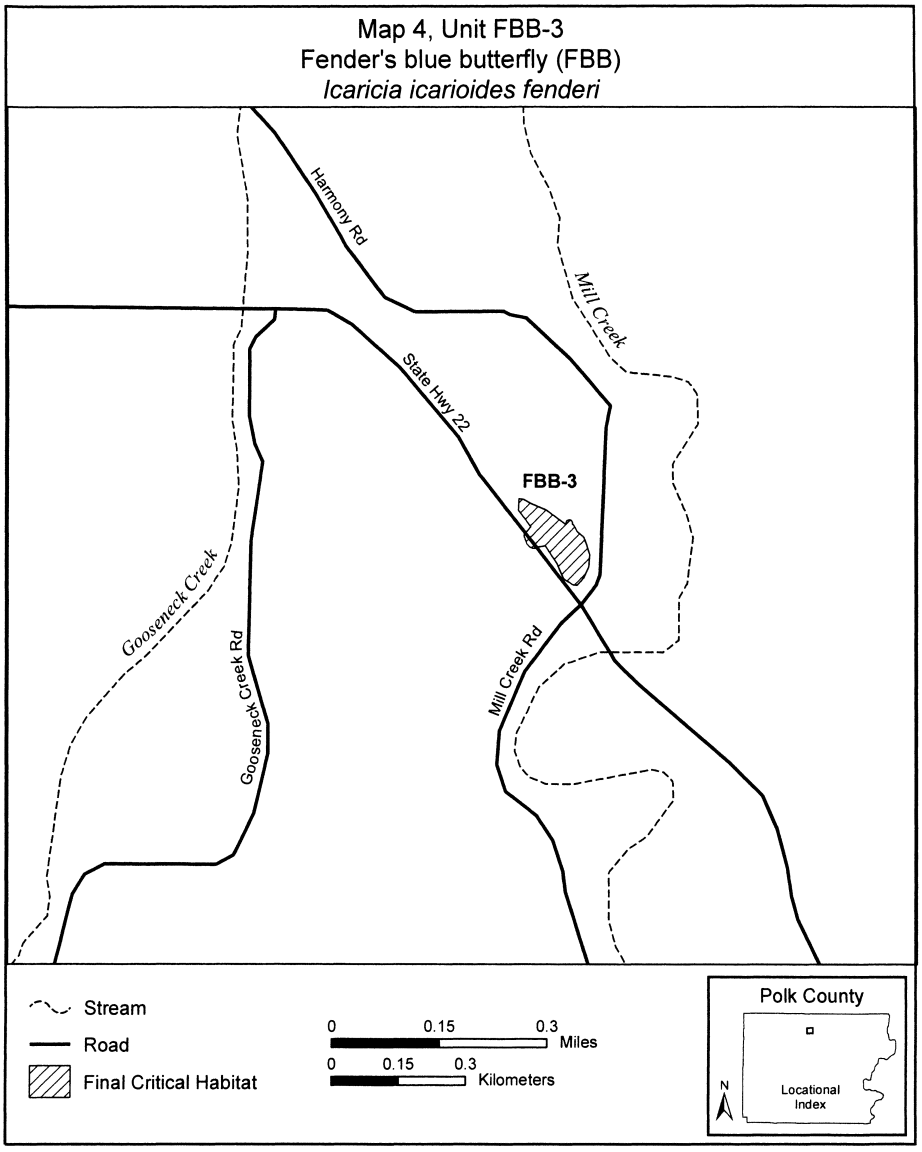


(8) Unit 3 for Fender's blue butterfly (FBB–3), Polk County, Oregon.

(i) Unit 3 (FBB–3): 466744, 4985295; 466788, 4985264; 466788, 4985266; 466788, 4985267; 466788, 4985268; 466789, 4985269; 466789, 4985270; 466790, 4985271; 466791, 4985272; 466792, 4985273; 466793, 4985273; 466795, 4985273; 466796, 4985274; 466797, 4985273; 466798, 4985273; 466800, 4985272; 466800, 4985272; 466801, 4985271; 466802, 4985270; 466802, 4985269; 466803, 4985267; 466803, 4985266; 466803, 4985265; 466802, 4985264; 466805, 4985263; 466814, 4985246; 466828, 4985234; 466834, 4985222; 466841, 4985196; 466839, 4985170; 466828, 4985145; 466814, 4985129; 466805, 4985129; 466783, 4985143; 466767, 4985178; 466742, 4985216; 466725, 4985214; 466725, 4985212; 466721, 4985211; 466718, 4985210; 466715, 4985211; 466711, 4985212; 466707, 4985213; 466700, 4985220; 466694, 4985237; 466694, 4985239; 466694, 4985241; 466696, 4985243; 466710, 4985258; 466681,

4985295; 466683, 4985320; 466691, 4985320; 466712, 4985309; 466744, 4985295.

(ii) Note: Map 4 (Unit 3 for Fender's blue butterfly (FBB–3)) follows:



(9) Unit 4 for Fender's blue butterfly (FBB–4), Polk County, Oregon.

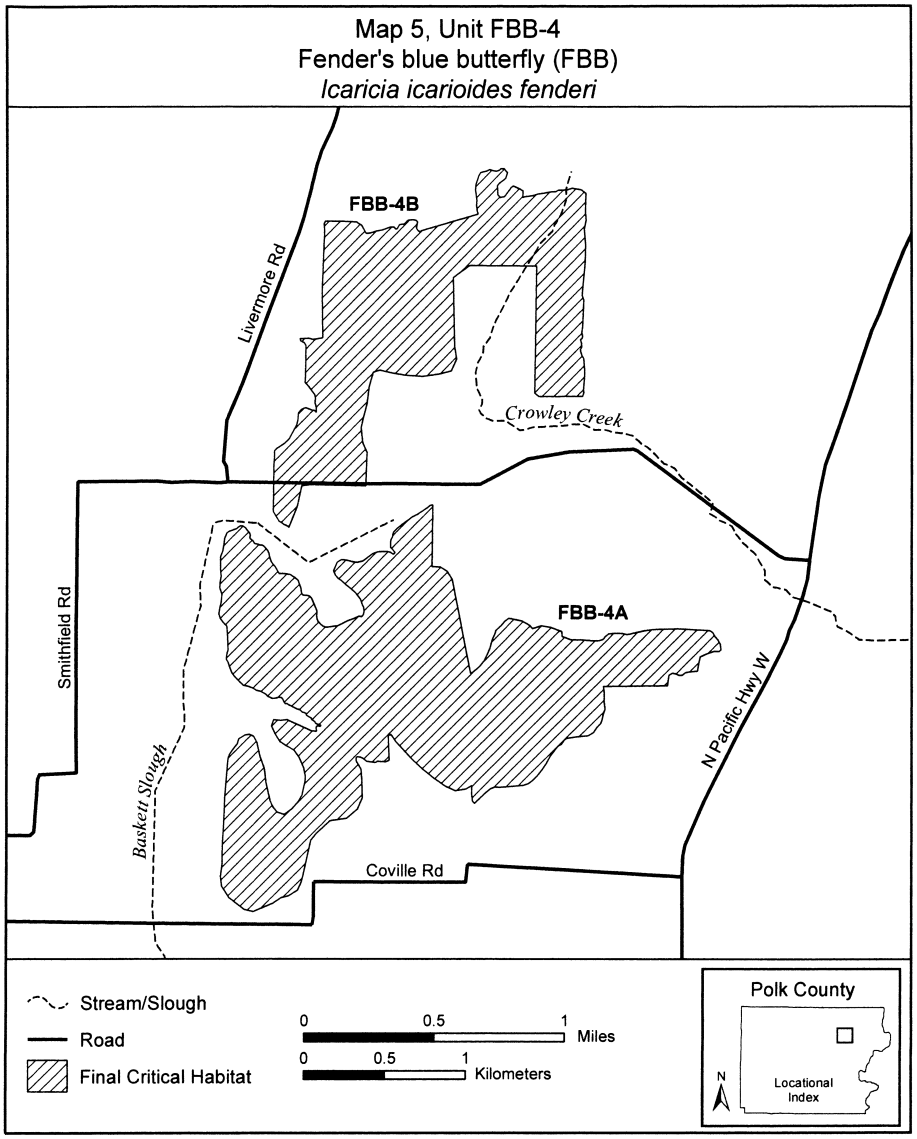
(i) Unit 4A (FBB–4A): 480420, 4981038; 480415, 4980660; 480465, 4980658; 480509, 4980632; 480539, 4980585; 480559, 4980485; 480655, 4980012; 480670, 4980021; 480700, 4980045; 480721, 4980066; 480736, 4980087; 480757, 4980126; 480772, 4980165; 480790, 4980221; 480805, 4980257; 480811, 4980275; 480850, 4980311; 480865, 4980329; 480892, 4980347; 480943, 4980338; 480973, 4980332; 480997, 4980317; 481021,

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(ii) Unit 4B (FBB–4B): 480860, 4983078; 480881, 4983054; 480869, 4983018; 480854, 4983006; 480830, 4982992; 480818, 4982974; 480821, 4982950; 480821, 4982944; 480821, 4982923; 480836, 4982905; 480845, 4982908; 480860, 4982911; 480872, 4982923; 480884, 4982938; 480896, 4982953; 480902, 4982965; 480917, 4982974; 480962, 4982956; 480968, 4982950; 480977, 4982947; 480977, 4982932; 480974, 4982905; 480992, 4982911; 481046, 4982920; 481070, 4982926; 481106, 4982932; 481157, 4982941; 481178, 4982941; 481184, 4982944; 481196, 4982950; 481205, 4982950; 481220, 4982950; 481229, 4982950; 481244, 4982956; 481253, 4982953; 481280, 4982962; 481337, 4982953; 481364, 4982932; 481364, 4982914; 481361, 4982848; 481361, 4982812; 481367, 4982770; 481355, 4982716; 481361, 4982623; 481358, 4982518; 481340, 4982314; 481349, 4982287; 481346, 4982218; 481343, 4982125; 481337, 4982089; 481343, 4982062; 481337, 4982050; 481328, 4982047; 481334, 4982023; 481337, 4982002; 481328, 4981984; 481331, 4981969; 481337, 4981954; 481349, 4981930; 481352, 4981888; 481355, 4981867; 481355, 4981828; 481346, 4981742; 481349, 4981724; 481343,

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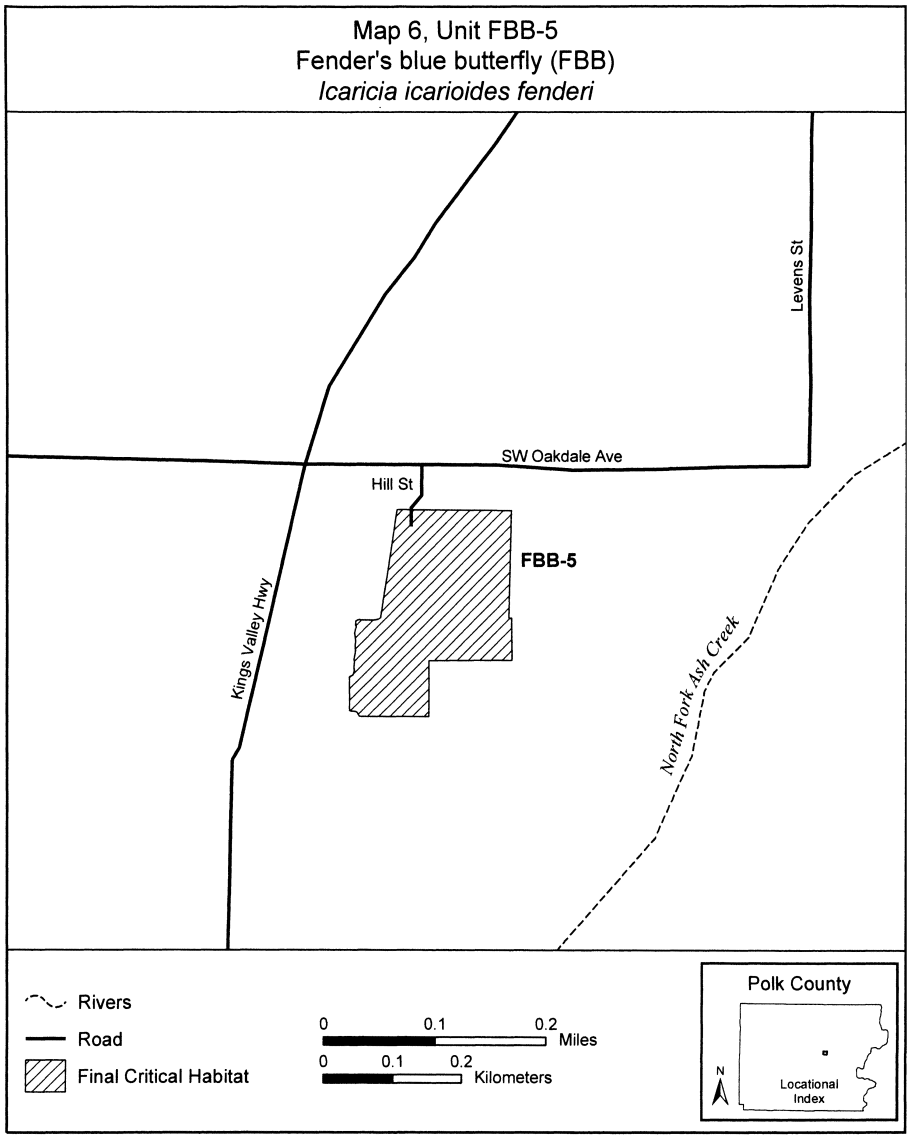
(iii) Note: Map 5 (Unit 4 for Fender's blue butterfly (FBB–4)) follows:



(10) Unit 5 for Fender's blue butterfly (FBB–5), Polk County, Oregon.

(i) Unit 5 (FBB–5): 474272, 4973321; 474269, 4973168; 474273, 4973168; 474274, 4973107; 474153, 4973107; 474153, 4973026; 474053, 4973026; 474051, 4973029; 474049, 4973032; 474047, 4973034; 474042, 4973034; 474039, 4973035; 474038, 4973084; 474044, 4973086; 474045, 4973092; 474045, 4973097; 474045, 4973104; 474045, 4973109; 474046, 4973116; 474047, 4973121; 474046, 4973128; 474047, 4973134; 474047, 4973139; 474046, 4973146; 474047, 4973152; 474048, 4973154; 474047, 4973158; 474048, 4973164; 474049, 4973164; 474052, 4973165; 474054, 4973165; 474061, 4973165; 474067, 4973165; 474074, 4973165; 474079, 4973166; 474083, 4973168; 474098, 4973263; 474107, 4973322; 474272, 4973321.

(ii) Note: Map 6 (Unit 5 for Fender's blue butterfly (FBB–5)) follows:



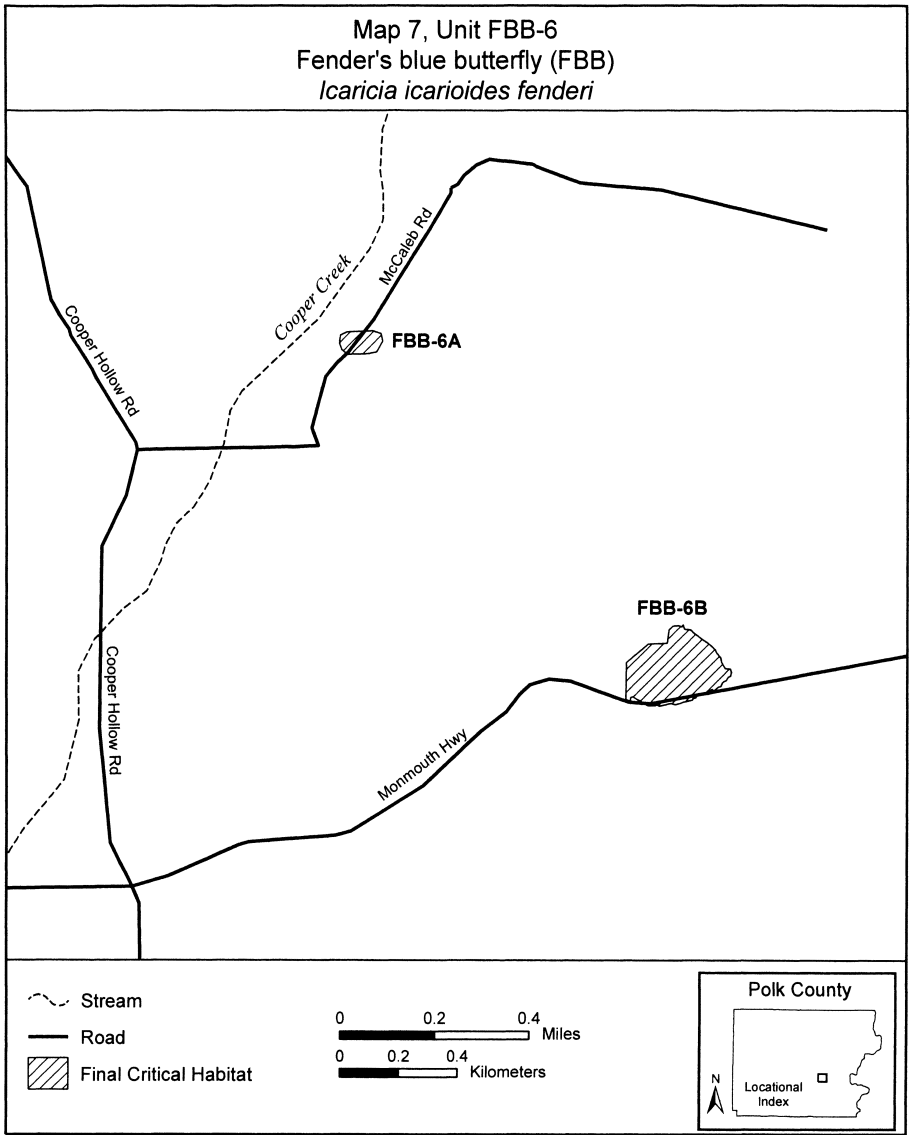
(11) Unit 6 for Fender's blue butterfly (FBB–6), Polk County, Oregon.

(i) Unit 6A (FBB–6A): 475279, 4966872; 475243, 4966871; 475222, 4966886; 475213, 4966910; 475218, 4966935; 475240, 4966947; 475327, 4966950; 475355, 4966941; 475361, 4966915; 475341, 4966880; 475311, 4966874; 475279, 4966872.

(ii) Unit 6B (FBB–6B): 476378, 4965968; 476384, 4965952; 476405, 4965950; 476419, 4965937; 476444, 4965919; 476463, 4965906; 476473, 4965897; 476487, 4965882; 476493, 4965872; 476506, 4965856; 476509, 4965842; 476521, 4965821; 476538, 4965819; 476542, 4965808; 476540, 4965796; 476532, 4965791; 476525, 4965780; 476519, 4965777; 476512, 4965770; 476507, 4965760; 476499, 4965757; 476493, 4965753; 476484, 4965744; 476477, 4965750; 476466, 4965743; 476463, 4965733; 476448, 4965733; 476435, 4965730; 476427, 4965729; 476423, 4965722; 476413, 4965718; 476411, 4965713; 476384, 4965707; 476355, 4965699; 476346, 4965699; 476339, 4965702; 476299, 4965693; 476290,

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(iii) Note: Map 7 (Unit 6 for Fender's blue butterfly (FBB–6)) follows:



(12) Units 7, 8, and 9 for Fender's blue butterfly (FBB–7, FBB–8, and FBB–9), Benton County, Oregon.

(i) Unit 7 (FBB–7): 472041, 4940614; 472041, 4940616; 472040, 4940619; 472041, 4940623; 472043, 4940628; 472043, 4940632; 472043, 4940636; 472043,

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(ii) Unit 8 (FBB–8): 466807, 4938996; 466822, 4938987; 466857, 4938963; 466860, 4938942; 466813, 4938811; 466811, 4938793; 466828, 4938769; 466941, 4938694; 466944, 4938670; 467002, 4938673; 467028, 4938645; 467029, 4938608; 467021, 4938582; 466984, 4938561; 466908, 4938577; 466832, 4938387; 466805, 4938237; 466934, 4938170; 466973, 4938111; 466957, 4937968; 467029, 4937886; 467194, 4937886; 467195, 4937857; 467365, 4937876; 467379, 4937926; 467611, 4937920; 467606, 4938003; 467523, 4938171; 467492, 4938190; 467460, 4938377; 467542, 4938516; 467858, 4938596; 467858, 4938879; 467912, 4938876; 467912, 4939023; 467936, 4939032; 468294, 4939023; 468330, 4939008; 468384, 4939008; 468414, 4938891; 468339, 4938736; 468339, 4938638; 468297, 4938551; 468324, 4938509; 468427, 4938482; 468488, 4938484; 468601, 4938464; 468666, 4938425; 468749, 4938490; 468859, 4938476; 468989, 4938412; 469013, 4938386; 468981, 4938369; 468949, 4938351; 468934, 4938305; 468966, 4938282; 469004, 4938261; 469027, 4938227; 469137, 4938256; 469181, 4938244; 469192, 4938198; 469186, 4938151; 469169, 4938119; 469120, 4938105; 469076, 4938079; 469056, 4938041; 469013, 4938018; 468978, 4937948; 469007, 4937940; 469100, 4937954; 469143, 4937931; 469204, 4937919; 469276, 4937905; 469320, 4937899; 469314, 4937864; 469256, 4937859; 469230, 4937821; 469184, 4937806; 469143, 4937789; 469088, 4937737; 469053, 4937685; 469027, 4937656; 469050, 4937604; 469036, 4937589; 468981, 4937569; 468946, 4937583; 468923, 4937635; 468874, 4937633; 468853, 4937615; 468833, 4937636; 468842, 4937659; 468819, 4937699; 468833, 4937720; 468876, 4937722; 468903, 4937746; 468899, 4937788; 468871, 4937818; 468856, 4937864; 468824, 4937879; 468816, 4937847; 468752, 4937824; 468723, 4937792; 468642, 4937746; 468338, 4937844; 468259, 4937905; 468216, 4937917; 468204, 4937864; 468112, 4937768; 468118, 4937725; 468124, 4937663; 468155, 4937619; 468175, 4937569; 468182, 4937545; 468127, 4937546; 468085, 4937549; 468046, 4937531; 468031, 4937507; 468007, 4937539; 467971, 4937573; 467970, 4937597; 467920, 4937618; 467892, 4937661; 467875, 4937662; 467845, 4937645; 467840, 4937641; 467841, 4937621; 467850, 4937503; 467896, 4937426; 467889, 4937381; 467879, 4937358; 467844, 4937352; 467717, 4937354; 467525, 4937362; 467217, 4937372; 467186, 4937381; 467066, 4937388; 467055, 4937377; 467009, 4937373; 466961, 4937380; 466915, 4937382; 466860, 4937392; 466783, 4937400; 466746, 4937390; 466750, 4937358; 466727, 4937335; 466713, 4937308; 466667, 4937298; 466654, 4937262; 466659, 4937211; 466686, 4937130; 466701, 4937088; 466710, 4937034; 466703, 4937031; 466705, 4937011; 466705, 4936978; 466695, 4936938; 466754, 4936891; 466792, 4936884; 466800, 4936874; 466824, 4936872; 466851, 4936874; 466877, 4936883; 466901, 4936894; 466913, 4936893; 466920, 4936885; 466932, 4936902; 466948, 4936901; 466959, 4936896; 466985, 4936886; 467030, 4936878; 467052, 4936866; 467075, 4936863; 467076, 4936853; 467057, 4936837; 467040, 4936823; 467030, 4936810; 466999, 4936794; 466960, 4936800; 466949, 4936803; 466904, 4936794; 466896, 4936793; 466884, 4936799; 466874, 4936790; 466865, 4936778; 466862,

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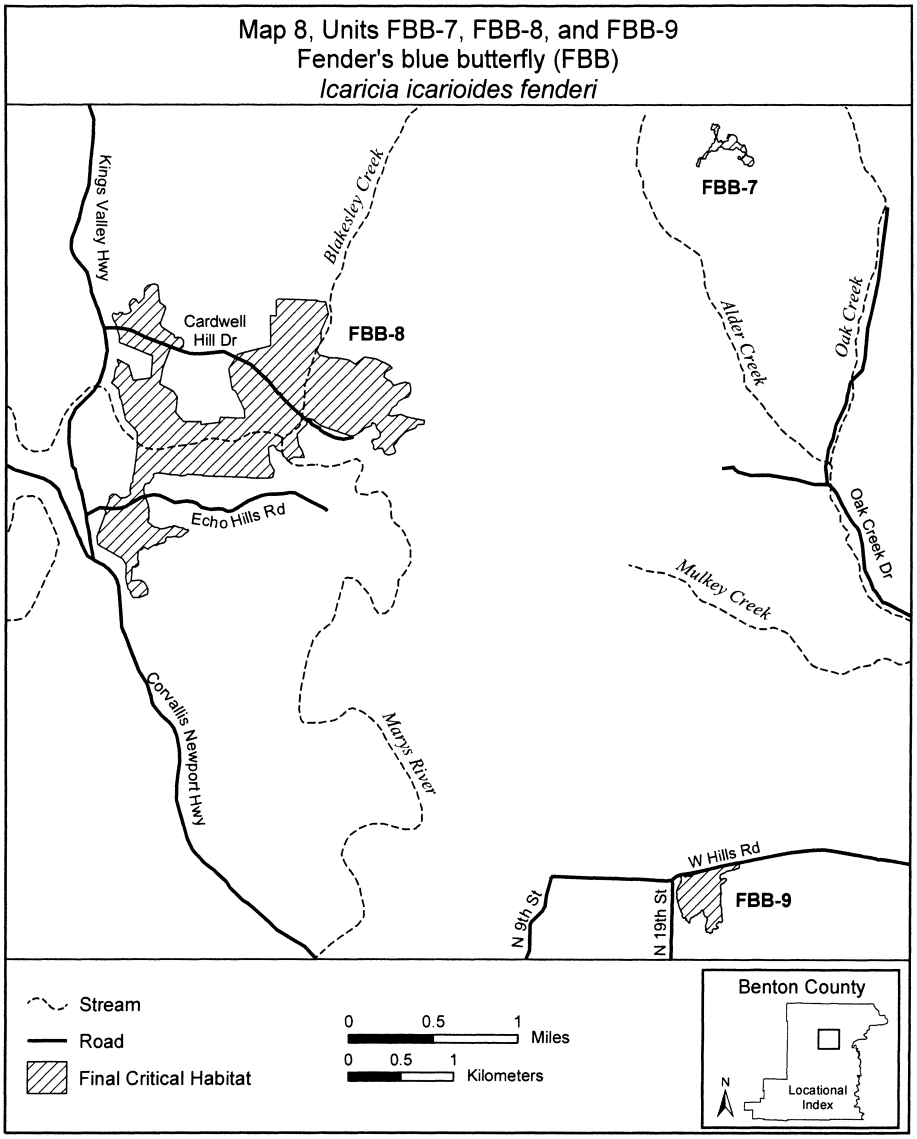
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(iv) Note: Map 8 (Units 7, 8, and 9 for Fender's blue butterfly (FBB–7, FBB–8, and FBB–9)) follows:



(13) Units 10, 11, and 12 for Fender's blue butterfly (FBB–10, FBB–11, and FBB–12) in Lane County, Oregon.

(i) Unit 10A (FBB–10A): 479362, 4883342; 479389, 4883340; 479413, 4883340; 479442, 4883333; 479454, 4883325; 479444, 4883317; 479419, 4883305; 479409, 4883299; 479403, 4883279; 479397, 4883259; 479385, 4883239; 479377, 4883216; 479371, 4883204; 479373, 4883192; 479373, 4883176; 479375, 4883162; 479371, 4883148; 479361, 4883128; 479357, 4883120; 479353, 4883108; 479365, 4883104; 479365, 4883104; 479366, 4883104; 479370, 4883102; 479372, 4883091; 479372, 4883083; 479371, 4883075; 479369, 4883061; 479365, 4883041; 479361, 4883025; 479345, 4883003; 479332, 4883007; 479332, 4883007; 479331, 4883007; 479333, 4882993; 479321, 4882977; 479305, 4882968; 479282, 4882968; 479266, 4882969; 479246, 4882973; 479246, 4882973; 479246, 4882973; 479226, 4882972; 479219, 4882977; 479213, 4882991; 479211, 4883005; 479211, 4883005; 479210, 4883009; 479204, 4883015;

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(ii) Unit 10B (FBB–10B): 480173, 4882467; 480173, 4882393; 480173, 4882308; 480170, 4882236; 480168, 4882173; 480168, 4882165; 480169, 4882164; 480176, 4882152; 480191, 4882150; 480226, 4882147; 480247, 4882138; 480243, 4882127; 480236, 4882109; 480232, 4882089; 480224, 4882064; 480207, 4882058; 480209, 4882042; 480209, 4882024; 480185, 4882016; 480170, 4882007; 480169, 4881966; 480191, 4881931; 480206, 4881898; 480213, 4881847; 480219, 4881787; 480246, 4881569; 480248, 4881544; 480247, 4881536; 480247, 4881524; 480239, 4881512; 480240, 4881489; 480243, 4881474; 480247, 4881442; 480243, 4881433; 480239, 4881415; 480224, 4881399; 480215, 4881399; 480210, 4881384; 480221, 4881370; 480230, 4881360; 480254, 4881347; 480271, 4881331; 480283, 4881333; 480297, 4881333; 480325, 4881335; 480338, 4881336; 480361, 4881332; 480375, 4881331; 480386, 4881325; 480394, 4881312; 480398, 4881279; 480398, 4881082; 480400, 4881032; 480399, 4881003; 480394, 4880995; 480394, 4880984; 480394, 4880984; 480360, 4880954; 480360, 4880954; 480350, 4880954; 480332, 4880958; 480316, 4880964; 480294, 4880970; 480284, 4880970; 480274, 4880966; 480261, 4880960; 480239, 4880962; 480213, 4880960; 480201, 4880950; 480179, 4880950; 480159, 4880950; 480130, 4880950; 480094, 4880944; 480080, 4880952; 480058, 4880954; 480052, 4880938; 480052, 4880920; 480044, 4880914; 480024, 4880912; 480026, 4880895; 480020, 4880883; 479997, 4880879; 479975, 4880873; 479961, 4880863; 479935, 4880849; 479917, 4880847; 479903, 4880841; 479883, 4880837; 479874, 4880825; 479874, 4880813; 479866, 4880803; 479848, 4880797; 479844, 4880779; 479848, 4880756; 479870, 4880738; 479868, 4880724; 479856, 4880702; 479872, 4880690; 479870, 4880674; 479856, 4880668; 479862, 4880650; 479876, 4880631; 479891, 4880621; 479901, 4880615; 479909, 4880597; 479919, 4880577; 479923, 4880559; 479927, 4880535; 479925, 4880523; 479939, 4880500; 479941, 4880484; 479939, 4880468; 479945, 4880456; 479947, 4880442; 479943, 4880426; 479949, 4880410; 479965, 4880400; 479975, 4880396; 479981, 4880373; 479987, 4880361; 479999, 4880357; 479999, 4880343; 480005, 4880319; 480005, 4880305; 480016, 4880283; 480034, 4880263; 480048, 4880265; 480054, 4880273; 480068, 4880265; 480088, 4880271; 480098, 4880291; 480094, 4880305; 480100, 4880315; 480118, 4880321; 480118, 4880339; 480124, 4880359; 480134, 4880388; 480141, 4880400; 480149, 4880412; 480163, 4880418; 480173, 4880428; 480177, 4880432; 480189, 4880432; 480221, 4880422; 480245, 4880424; 480261, 4880422; 480280, 4880422; 480322, 4880426; 480344, 4880432; 480378, 4880438; 480391, 4880442; 480417, 4880444; 480411, 4880428; 480405, 4880398; 480401, 4880371; 480401, 4880353; 480389, 4880333; 480384, 4880311; 480374, 4880265; 480366, 4880238; 480364, 4880208; 480362, 4880184; 480358, 4880156; 480354, 4880113; 480336, 4880109; 480300, 4880109; 480259, 4880113; 480179, 4880115; 480116, 4880115; 480076, 4880115; 480044, 4880117; 480044, 4880142; 480044, 4880166; 480042, 4880194; 480034, 4880192; 480020, 4880196; 480010, 4880198; 479997, 4880190; 480001, 4880168; 480001, 4880154; 479983, 4880156; 479969, 4880158; 479957,

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(iii) Unit 10C (FBB–10C): 481378, 4880648; 481378, 4880649; 481379, 4880651; 481380, 4880651; 481386, 4880656; 481391, 4880657; 481396, 4880658; 481398, 4880658; 481400, 4880657; 481401, 4880674; 481426, 4880675; 481437, 4880674; 481437, 4880675; 481438, 4880675; 481438, 4880675; 481438, 4880675; 481443, 4880679; 481448, 4880686; 481454, 4880692; 481461, 4880697; 481466, 4880702; 481473, 4880709; 481478, 4880715; 481481, 4880724; 481484, 4880732; 481485, 4880737; 481486, 4880744; 481487, 4880751; 481488, 4880756; 481488, 4880762; 481488, 4880768; 481485, 4880774; 481482, 4880779; 481480, 4880786; 481478, 4880790; 481477, 4880795; 481475, 4880803; 481474, 4880808; 481473, 4880813; 481473, 4880820; 481467, 4880823; 481460, 4880829; 481455, 4880836; 481454, 4880844; 481455, 4880854; 481460, 4880864; 481464, 4880872; 481468, 4880877; 481472, 4880882; 481476, 4880886; 481481, 4880892; 481489, 4880897; 481495, 4880902; 481502, 4880908; 481511, 4880912; 481515, 4880917; 481521, 4880920; 481529, 4880923; 481535, 4880925; 481542, 4880927; 481545, 4880928; 481567, 4880927; 481580, 4880925; 481590, 4880922; 481597, 4880918; 481602, 4880914; 481602, 4880914; 481602, 4880913; 481609, 4880913; 481612, 4880913; 481615, 4880820; 481611, 4880820; 481611, 4880816; 481612, 4880815; 481616, 4880815; 481616, 4880806; 481617, 4880802; 481620, 4880797; 481622, 4880794; 481622, 4880793; 481623, 4880790; 481623, 4880789; 481624, 4880788; 481624, 4880786; 481816, 4880785; 481814, 4880923; 481900, 4880926; 481912, 4880916; 481942, 4880882; 481988, 4880820; 481991, 4880727; 481800, 4880618; 481741, 4880607; 481669, 4880604; 481667, 4880569; 481686, 4880525; 481718, 4880494; 481780, 4880511; 481849, 4880560; 481913, 4880614; 481964, 4880648; 482025, 4880685; 482062, 4880698; 482079, 4880687; 482089, 4880665; 482099, 4880579; 482082, 4880547; 481998, 4880506; 481925, 4880469; 481809, 4880408; 481760, 4880370; 481645, 4880354; 481620, 4880380; 481618, 4880513; 481600, 4880528; 481599, 4880529; 481598, 4880529; 481594, 4880529; 481589, 4880526; 481587, 4880525; 481577, 4880525; 481572, 4880525; 481568, 4880525; 481563, 4880525; 481559, 4880525; 481557, 4880525; 481553, 4880523; 481551, 4880523; 481541, 4880523; 481540, 4880523; 481540, 4880523; 481532, 4880524; 481525, 4880523; 481509, 4880519; 481496, 4880519; 481494, 4880520; 481483, 4880523; 481470, 4880525; 481470, 4880525; 481470, 4880525; 481469, 4880525; 481454, 4880526; 481448, 4880527; 481431, 4880531; 481409, 4880530; 481409, 4880530; 481405, 4880530; 481420, 4880517; 481445, 4880474; 481453, 4880443; 481451, 4880421; 481452, 4880420; 481444, 4880418; 481428, 4880427; 481400, 4880494; 481379, 4880554; 481368, 4880626; 481373, 4880640; 481374, 4880634; 481375, 4880644; 481377, 4880648; 481378, 4880648.

(iv) Unit 10D (FBB–10D): 482330, 4880170; 482330, 4880242; 482338, 4880299; 482384, 4880330; 482415, 4880349; 482472, 4880382; 482531, 4880408; 482566, 4880419; 482601, 4880426; 482638, 4880434; 482700, 4880436; 482751, 4880435; 482832, 4880421; 482837, 4880436; 482842, 4880441; 482846, 4880456; 482865, 4880463; 482890, 4880456; 482946, 4880435; 482951, 4880427; 482973, 4880408; 483000, 4880395; 483014, 4880387; 483040, 4880372; 483075, 4880346; 483131, 4880295; 483137, 4880272; 483125, 4880251; 483125, 4880250; 483083, 4880204; 483082, 4880205; 483069, 4880202; 483048, 4880205; 483015, 4880205;

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(v) Unit 10E (FBB–10E): 483301, 4880015; 483334, 4880057; 483333, 4880306; 483332, 4880510; 483360, 4880508; 483386, 4880503; 483421, 4880492; 483444, 4880480; 483486, 4880443; 483541, 4880386; 483561, 4880361; 483631, 4880258; 483671, 4880200; 483683, 4880171; 483736, 4880004; 483767, 4879924; 483848, 4879754; 483860, 4879739; 483868, 4879724; 483868, 4879708; 483853, 4879707; 483824, 4879707; 483765, 4879712; 483763, 4879718; 483751, 4879724; 483751, 4879729; 483748, 4879746; 483706, 4879749; 483693, 4879751; 483681, 4879754; 483652, 4879767; 483614, 4879787; 483545, 4879797; 483306, 4879918; 483301, 4880015.

(vi) Unit 11A (FBB–11A): 482634, 4879216; 482560, 4879196; 482528, 4879254; 482470, 4879358; 482492, 4879432; 482573, 4879516; 482592, 4879600; 482486, 4879609; 482475, 4879701; 482527, 4879700; 482613, 4879696; 482655, 4879694; 482634, 4879216.

(vii) Unit 11B (FBB–11B): 482130, 4878873; 482101, 4878734; 481898, 4878780; 481827, 4878721; 481792, 4878680; 481750, 4878676; 481734, 4878689; 481740, 4878776; 481743, 4878847; 481771, 4878922; 481791, 4878918; 481901, 4878886; 482130, 4878873.

(viii) Unit 11C (FBB–11C): 482637, 4878489; 482654, 4878466; 482492, 4878476; 482492, 4878521; 482544, 4878709; 482595, 4878851; 482687, 4878901; 482911, 4878899; 482883, 4878825; 482792, 4878741; 482744, 4878644; 482654, 4878599; 482625, 4878583; 482637, 4878489.

(ix) Unit 11D (FBB–11D): 483917, 4879166; 483911, 4879133; 483895, 4879125; 483841, 4879126; 483792, 4879136; 483800, 4879102; 483835, 4879061; 483920, 4879021; 483949, 4879004; 483975, 4878976; 483992, 4878953; 484027, 4878883; 484048, 4878870; 484059, 4878815; 484017, 4878833; 483914, 4878874; 483812, 4878917; 483725, 4878961; 483698, 4878999; 483674, 4879071; 483668, 4879377; 483703, 4879390; 483754, 4879404; 483789, 4879412; 483849, 4879401; 483906, 4879358; 483920, 4879301; 483923, 4879247; 483917, 4879166.

(x) Unit 11E (FBB–11E): 484274, 4879053; 484439, 4878986; 484226, 4878988; 484195, 4878996; 484183, 4879004; 484183, 4879189; 484193, 4879197; 484201, 4879199; 484220, 4879148; 484239, 4879099; 484253, 4879070; 484274, 4879053.

(xi) Unit 11F (FBB–11F): 484856, 4878596; 484906, 4878565; 484909, 4878412; 485192, 4878416; 485247, 4878417; 485269, 4878317; 485038, 4878264; 484819, 4878269; 484774, 4878240; 484777, 4878237; 484743, 4878234; 484735, 4878256; 484736, 4878340; 484731, 4878360; 484711, 4878440; 484690, 4878493; 484646, 4878531; 484613, 4878561; 484639, 4878590; 484639, 4878590; 484856, 4878596.

(xii) Unit 11G (FBB–11G): 484890, 4877956; 484890, 4877986; 484893, 4878018; 484903, 4878058; 484911, 4878082; 484908, 4878084; 484943, 4878095; 484981, 4878028; 484993, 4877966; 484998, 4877917; 485005, 4877890; 485003, 4877867; 484981, 4877858; 484981, 4877861; 484960, 4877869; 484936, 4877878; 484916, 4877898; 484897, 4877925; 484890, 4877956.

(xiii) Unit 11H (FBB–11H): 485260, 4877580; 485260, 4877580; 485263, 4878059; 485381, 4878067; 485486, 4878059; 485530, 4878059; 485578, 4878058; 485595, 4878021; 485594, 4877901; 485597, 4877851; 485598, 4877813; 485589, 4877780; 485587, 4877759; 485587, 4877759; 485586, 4877757; 485592, 4877706; 485592, 4877705; 485589, 4877570; 485589, 4877512; 485616, 4877499; 485716, 4877494; 485714, 4877466; 485719, 4877374; 485716, 4877332; 485700, 4877320; 485605, 4877329; 485547, 4877340; 485479, 4877364; 485432, 4877390; 485340, 4877458; 485304, 4877484; 485260, 4877580.

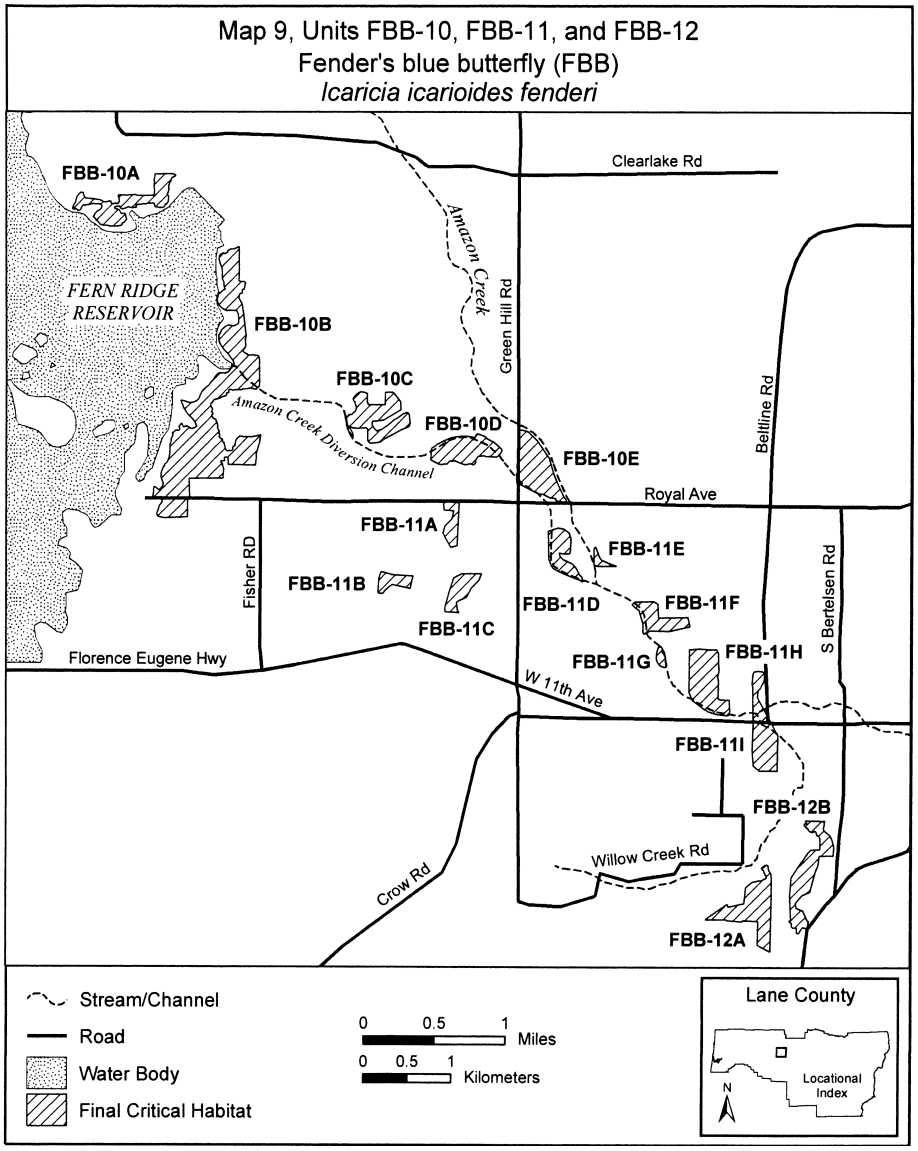
(xiv) Unit 11I (FBB–11I): 486042, 4877818; 486064, 4877815; 486085, 4877816; 486097, 4877812; 486099, 4877812; 486110, 4877794; 486111, 4877786; 486113, 4877755; 486112, 4877751; 486111, 4877741; 486112, 4877740; 486112, 4877736; 486112, 4877735; 486110, 4877734; 486110, 4877734; 486107, 4877713; 486106, 4877708; 486106, 4877708; 486106, 4877708; 486067, 4877628; 486041, 4877605; 486036, 4877586; 486033, 4877528; 486241, 4877142; 486263, 4877100; 486261, 4876700; 486057, 4876700; 485991, 4876758; 485978, 4876930; 485986, 4877216; 485986, 4877222; 485981, 4877497; 485981, 4877647; 485977, 4877652; 485975, 4877692; 485976, 4877692; 485976, 4877703; 485977, 4877703; 485976, 4877703; 485977, 4877712; 485983, 4877780; 485984, 4877781; 485987, 4877791; 485988, 4877795; 485996, 4877809; 485999, 4877814; 486024, 4877817; 486038, 4877818; 486042, 4877818.

(xv) Unit 12A (FBB–12A): 486197, 4875513; 486200, 4875474; 486201, 4875316; 486185, 4874677; 486042, 4874749; 486046, 4875014; 485875, 4875023; 485874, 4875012; 485698, 4875023; 485695, 4875035; 485450, 4875035; 485608, 4875144; 485702, 4875208; 485712, 4875178; 485862, 4875211; 485889, 4875218; 485910, 4875396; 485986, 4875456; 486062, 4875471; 486072, 4875472; 486086, 4875473; 486088, 4875478; 486096, 4875476; 486143, 4875502; 486141, 4875516; 486141, 4875526; 486138, 4875537; 486132, 4875540; 486115, 4875576; 486116, 4875585; 486113, 4875587; 486113, 4875591; 486100, 4875599; 486094, 4875607; 486092, 4875611; 486092, 4875616; 486105, 4875626; 486123, 4875643; 486143, 4875649; 486156, 4875646; 486159, 4875643; 486163, 4875634; 486164, 4875624; 486166, 4875609; 486169, 4875599; 486174, 4875586; 486190, 4875560; 486193, 4875549; 486195, 4875534; 486197, 4875513.

(xvi) Unit 12B (FBB–12B): 486793, 4876121; 486790, 4876107; 486783, 4876064; 486783, 4876051; 486790, 4876034; 486805, 4876021; 486842, 4875993; 486855, 4875977; 486860, 4875962; 486869, 4875946; 486883, 4875908; 486893, 4875878; 486895, 4875857; 486896, 4875826; 486892, 4875791; 486893, 4875754; 486886, 4875756; 486738, 4875751; 486734, 4875744; 486731, 4875711; 486725, 4875665; 486720, 4875629; 486693, 4875573; 486629, 4875348; 486549, 4875312; 486469, 4875220; 486477, 4875168; 486553, 4875136; 486603, 4875021; 486608, 4875021; 486616, 4875020; 486601, 4874935; 486577, 4874945; 486546, 4874949; 486542, 4874941; 486522, 4874907; 486507, 4874882; 486482, 4874888; 486482, 4874900; 486481, 4874944; 486439, 4874947; 486424, 4874957; 486426, 4874980; 486427, 4875000; 486409, 4875006; 486398, 4875018; 486401, 4875024; 486416, 4875027; 486422, 4875028; 486417, 4875033; 486405, 4875292; 486421, 4875508;

486517, 4875652; 486614, 4875792; 486640, 4875821; 486742, 4875825; 486742, 4875951; 486725, 4875983; 486714, 4875983; 486709, 4875984; 486702, 4875993; 486694, 4876021; 486685, 4876033; 486684, 4876035; 486680, 4876031; 486676, 4876028; 486672, 4876025; 486660, 4876020; 486657, 4876018; 486652, 4876018; 486639, 4876025; 486629, 4876029; 486620, 4876034; 486614, 4876044; 486613, 4876052; 486610, 4876058; 486605, 4876068; 486594, 4876067; 486589, 4876066; 486585, 4876068; 486581, 4876078; 486576, 4876086; 486568, 4876093; 486565, 4876102; 486563, 4876110; 486565, 4876115; 486573, 4876118; 486577, 4876118; 486583, 4876115; 486588, 4876113; 486592, 4876119; 486590, 4876128; 486585, 4876137; 486580, 4876144; 486579, 4876147; 486795, 4876145; 486793, 4876121.

(xvii) Note: Map 9 (Units 10, 11, and 12 for Fender's blue butterfly (FBB–10, FBB–11, and FBB–12)) follows:



(14) Unit 13 for Fender's blue butterfly, Lane County, Oregon.

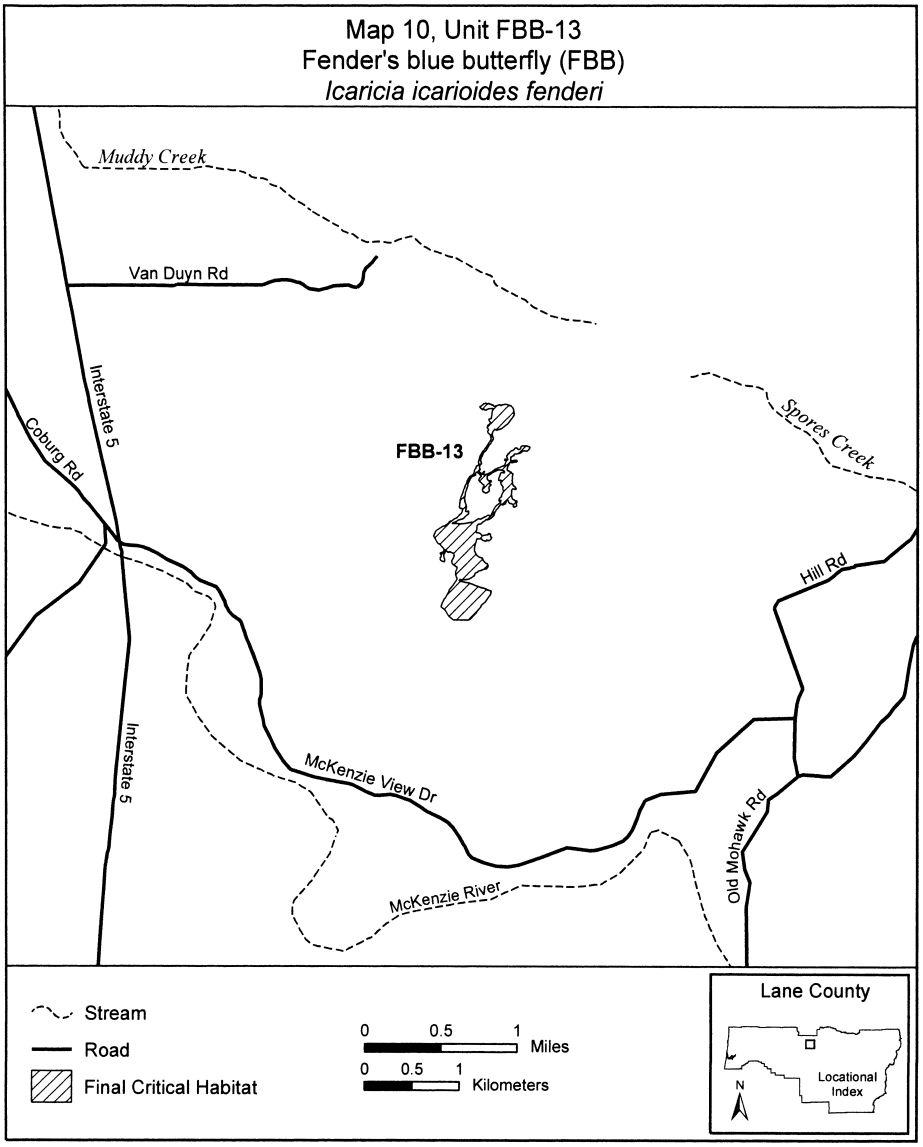
(i) Unit 13 (FBB–13) exterior unit perimeter: 500237, 4885879; 500247, 4885878; 500251, 4885881; 500259, 4885886; 500266, 4885881; 500274, 4885878; 500281, 4885875; 500294, 4885870; 500305, 4885867; 500309, 4885860; 500312, 4885856; 500326, 4885855; 500374, 4885871; 500388, 4885861; 500407, 4885873; 500445, 4885876; 500494, 4885861; 500516, 4885835; 500529, 4885775; 500516, 4885744; 500461, 4885670; 500397, 4885621; 500340, 4885608; 500322, 4885619; 500317, 4885610; 500306, 4885597; 500302, 4885585; 500297, 4885572; 500297, 4885553; 500301, 4885537; 500309, 4885525; 500306, 4885510; 500301, 4885500; 500291, 4885484; 500282, 4885466; 500266, 4885451; 500242, 4885409; 500227, 4885390; 500207, 4885373; 500198, 4885360; 500187, 4885333; 500176, 4885307; 500174, 4885290; 500176, 4885279; 500179, 4885270; 500184, 4885259; 500181, 4885253; 500171, 4885244; 500164, 4885234; 500162, 4885226; 500162, 4885217; 500163, 4885206; 500168, 4885202; 500171, 4885197; 500161, 4885192; 500160, 4885180; 500160, 4885169; 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(ii) Unit 13 (FBB–13) interior unit perimeter 500014, 4884757; 500024, 4884754; 500039, 4884757; 500047, 4884762; 500047, 4884748; 500048, 4884731; 500033, 4884719; 500019, 4884709; 500009, 4884696; 499994, 4884686; 499975, 4884679; 499963, 4884672; 499939, 4884665; 499927, 4884656; 499908, 4884648; 499899, 4884644; 499883, 4884641; 499869, 4884634; 499896, 4884633; 499920, 4884633; 499959, 4884630; 500010, 4884633; 500077, 4884643; 500098, 4884643; 500132, 4884671; 500152, 4884680; 500169, 4884677; 500211, 4884696; 500232, 4884707; 500254, 4884720; 500271, 4884714; 500280, 4884715; 500316, 4884780; 500328, 4884808; 500349, 4884827; 500374, 4884844; 500382, 4884855; 500387, 4884875; 500373, 4884873; 500367, 4884862; 500367, 4884883; 500374, 4884899; 500389, 4884907; 500401, 4884915; 500393, 4884922; 500399, 4884934; 500404, 4884947; 500414, 4884955; 500421, 4884967; 500414, 4884984; 500407, 4884992; 500412, 4885011; 500406, 4885026; 500392, 4885038; 500386, 4885045; 500381, 4885060; 500391, 4885076; 500386, 4885085; 500372, 4885080; 500364, 4885083; 500362, 4885099; 500372, 4885114; 500377, 4885133; 500385, 4885158; 500391, 4885166; 500404, 4885165; 500424, 4885161; 500427, 4885174; 500422, 4885182; 500387, 4885191; 500364, 4885192; 500348, 4885190; 500333, 4885182; 500317, 4885172; 500297, 4885161; 500275, 4885150; 500261, 4885142; 500246, 4885127; 500242, 4885106; 500246, 4885090; 500260, 4885076; 500272, 4885079; 500283, 4885078; 500283, 4885068; 500272, 4885060; 500268, 4885047; 500277, 4885039; 500286, 4885038; 500275, 4885024; 500260, 4885012; 500260, 4885001; 500265, 4884987; 500264, 4884970; 500252, 4884959; 500242, 4884954; 500226, 4884951; 500208, 4884958; 500198, 4884965; 500191, 4884981; 500194, 4884996; 500202, 4885011; 500212, 4885020; 500209, 4885034; 500193, 4885043; 500186, 4885049; 500179, 4885057; 500161, 4885069; 500154, 4885086; 500166, 4885113; 500182, 4885123; 500171, 4885137; 500162, 4885147; 500149, 4885157; 500137, 4885168; 500128, 4885163; 500119, 4885147; 500121, 4885136; 500101, 4885127; 500085, 4885118; 500077, 4885110; 500070, 4885099; 500062, 4885087; 500055, 4885072; 500041, 4885045; 500034, 4885017; 500029, 4884996; 500025, 4884978; 500016, 4884959; 500011, 4884937; 500011, 4884921; 500004, 4884891; 500006, 4884875; 500006, 4884860; 500014, 4884840; 500020, 4884823; 500025, 4884806; 500021, 4884789; 500024, 4884780; 500014, 4884772; 500014, 4884757.

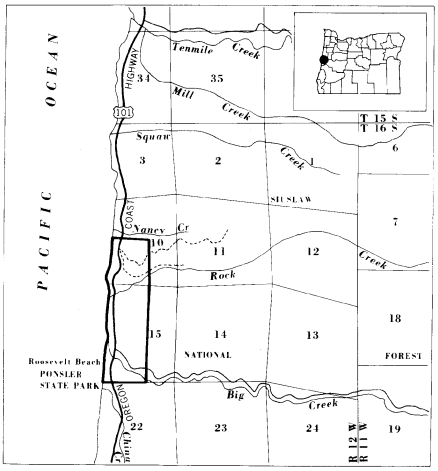
(iii) Note: Map 10 (Unit 13 for Fender's blue butterfly (FBB–13)) follows:


Map 10, Unit FBB-13
Fender's blue butterfly (FBB)
Icaricia icarioides fenderi
Muddy Creek
Van Duyn Rd
Interstate 5
Coburg Rd
FBB-13
Spores Creek
Hill Rd
McKenzie View Dr
Interstate 5
Old Mohawk Rd
McKenzie River
Stream
Road
Final Critical Habitat
0 0.5 1
Miles
0 0.5 1
Kilometers
Lane County
N
Locational Index

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:



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.

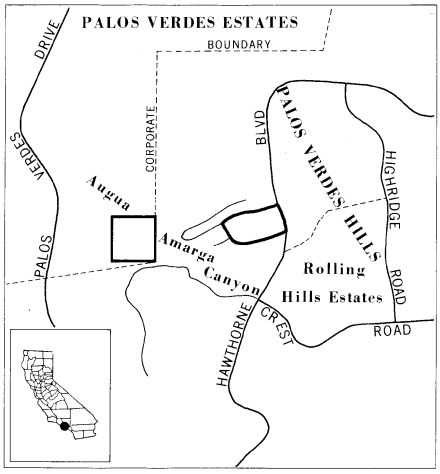
PALOS VERDES BLUE BUTTERFLY (*Glaucopsyche lygdamus palosverdesensis*)

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.

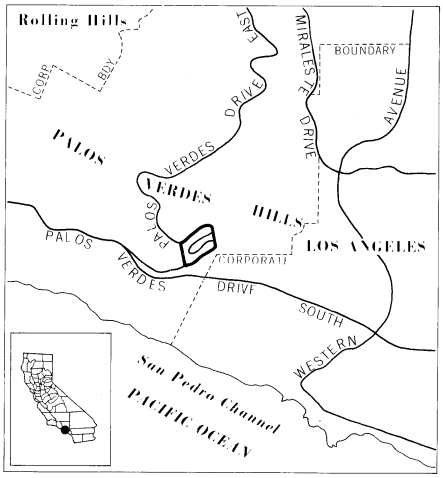
2. Frank Hesse Park Zone. Rancho Palos Verdes. An area enclosed by Hawthorne Boulevard, Locklenna Lane, and Verde Drive.

NOTE: Map follows:



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:



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;

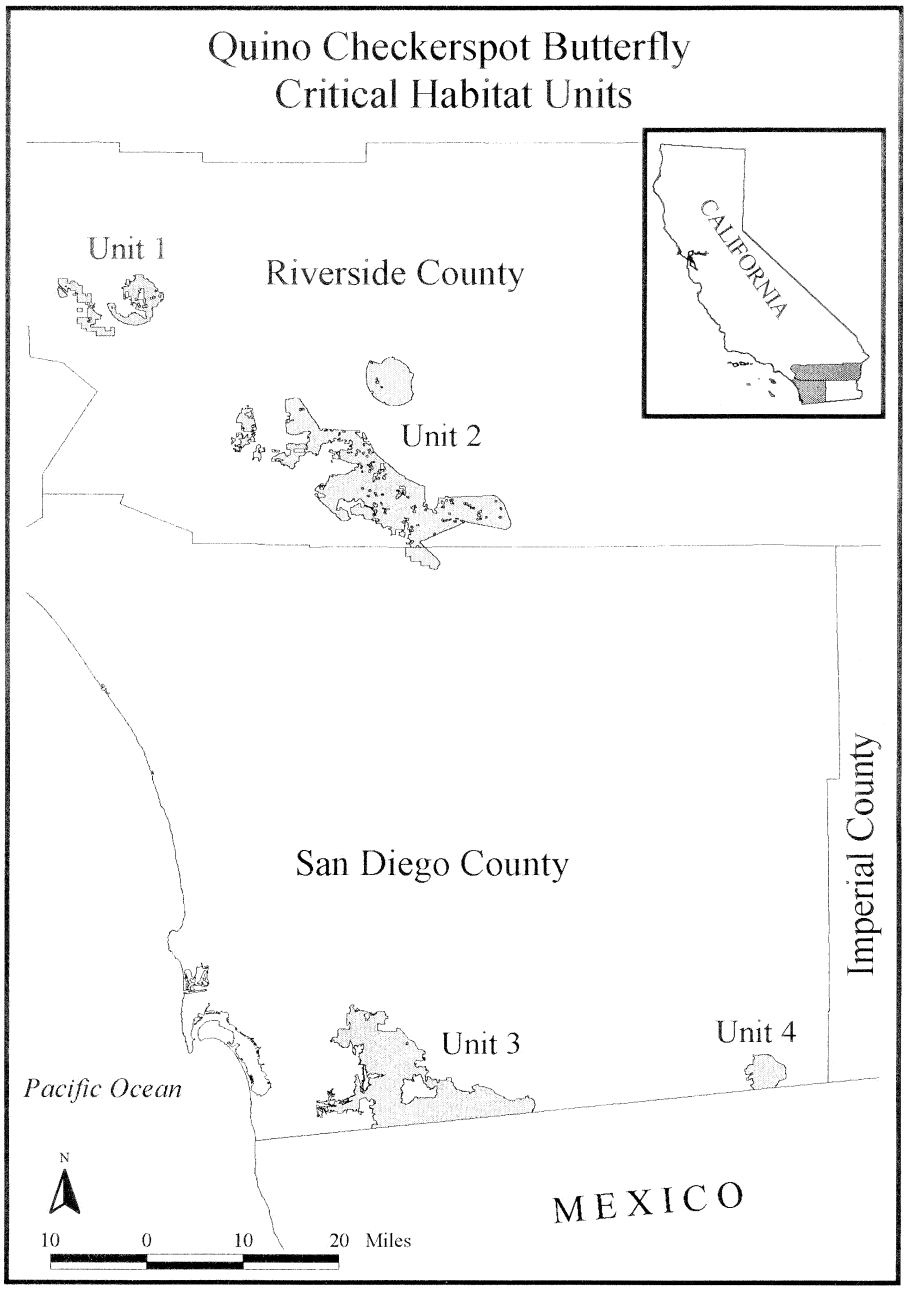
(ii) Undeveloped areas containing grassland or open-canopy woody plant communities, within and between habitat patches, utilized for Quino checkerspot butterfly mating, basking, and movement; or

(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:


Quino Checkerspot Butterfly
Critical Habitat Units
CALIFORNIA
Unit 1
Riverside County
Unit 2
San Diego County
Imperial County
Unit 3
Unit 4
Pacific Ocean
MEXICO
N
10 0 10 20 Miles

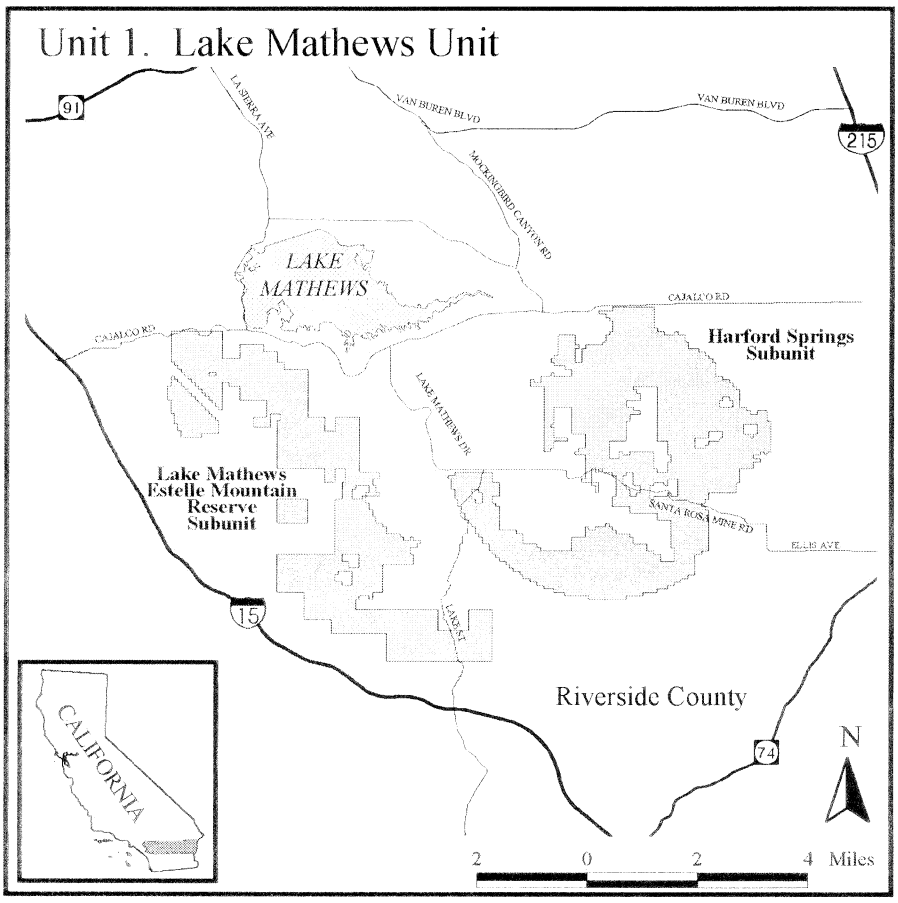
(6) Map Unit 1: Lake Mathews, Riverside County, California.

(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, 3740700; 472400, 3740800; 472700, 3740800; 472700, 3740500; 472800, 3740500; 472800, 3739600; 472700, 3739600; 472700, 3739500; 472600, 3739500; 472600, 3739600; 472500, 3739600; 472500, 3739500; 472300, 3739500; 472300, 3739400; 472500, 3739400; 472500, 3739300; 472300, 3739300; 472300, 3739100; 471900, 3739100; 471900, 3738700; 471800, 3738700; 471800, 3738400; 471000, 3738400; 471000, 3738200; 470900, 3738200; 470900, 3738100; 470800, 3738100; 470800, 3738000; 470900, 3738000; 470900, 3737900; 471000, 3737900; 471000, 3736700; 470800, 3736700; 470800, 3736600; 470600, 3736600; 470600, 3736000; 470400, 3736000; 470400, 3735900; 470200, 3735900; 470200, 3735800; 470000, 3735800; 470000, 3735700; 469800, 3735700; 469800, 3735600; 469500, 3735600; 469500, 3735500; 469100, 3735500; 469100, 3735400; 468600, 3735400; 468600, 3735300; 467500, 3735300; 467500, 3735400; 466800, 3735400; 466800, 3735500; 466500, 3735500; 466500, 3735600; 466200, 3735600; 466200, 3735700; 466000, 3735700; 466000, 3735800; 465800, 3735800; 465800, 3735900; 465600, 3735900; 465600, 3736000; 465500, 3736000; 465500, 3736100; 465300, 3736100; 465300, 3736200; 465200, 3736200; 465200, 3736300; 465100, 3736300; 465100, 3736400; 464900, 3736400; 464900, 3736500; 464800, 3736500; 464800, 3736600; 464700, 3736600; 464700, 3736700; 464600, 3736700; 464600, 3736900; 464400, 3736900; 464400, 3737100; 464300, 3737100; 464300, 3737200; 464200, 3737200; 464200, 3737400; 464100, 3737400; 464100, 3737500; 464000, 3737500; 464000, 3737600; 463900, 3737600; 463900, 3737800; 463800, 3737800; 463800, 3738000; 463700, 3738000; 463700, 3738200; 463600, 3738200; 463600, 3738500; 463500, 3738500;

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(iii) Map Unit 1 follows:



(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,

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(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,

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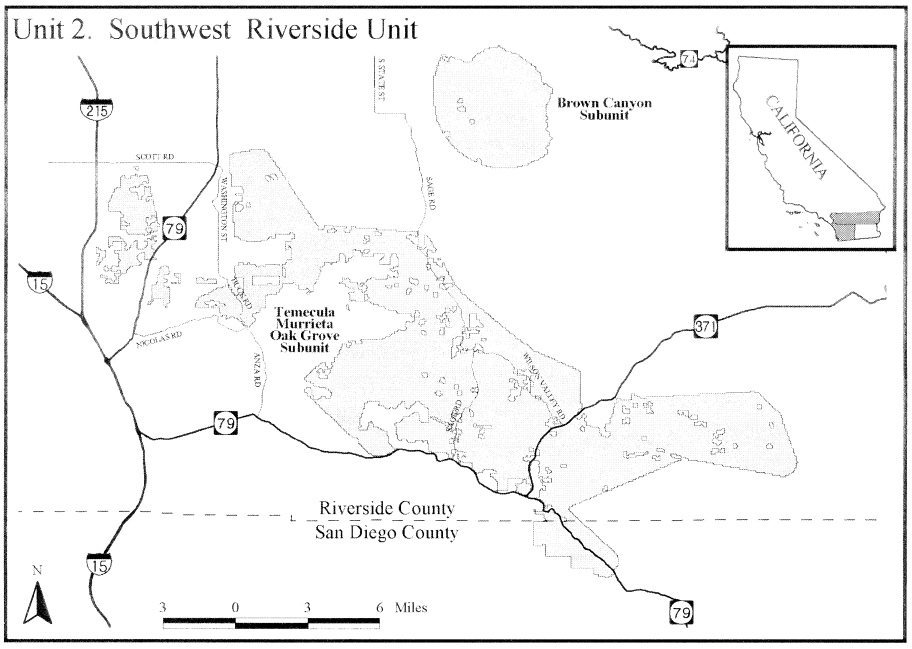
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(iv) Map Unit 2 follows:



(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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3609600; 518600, 3609600; 518600, 3609400; 518800, 3609400; 518800, 3609100; 519100, 3609100; 519100, 3609600; 519200, 3609600; thence south to the MHPA boundary at UTM x-coordinate 519200; thence east along the MHPA to UTM y-coordinate 3609600; thence south and 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:

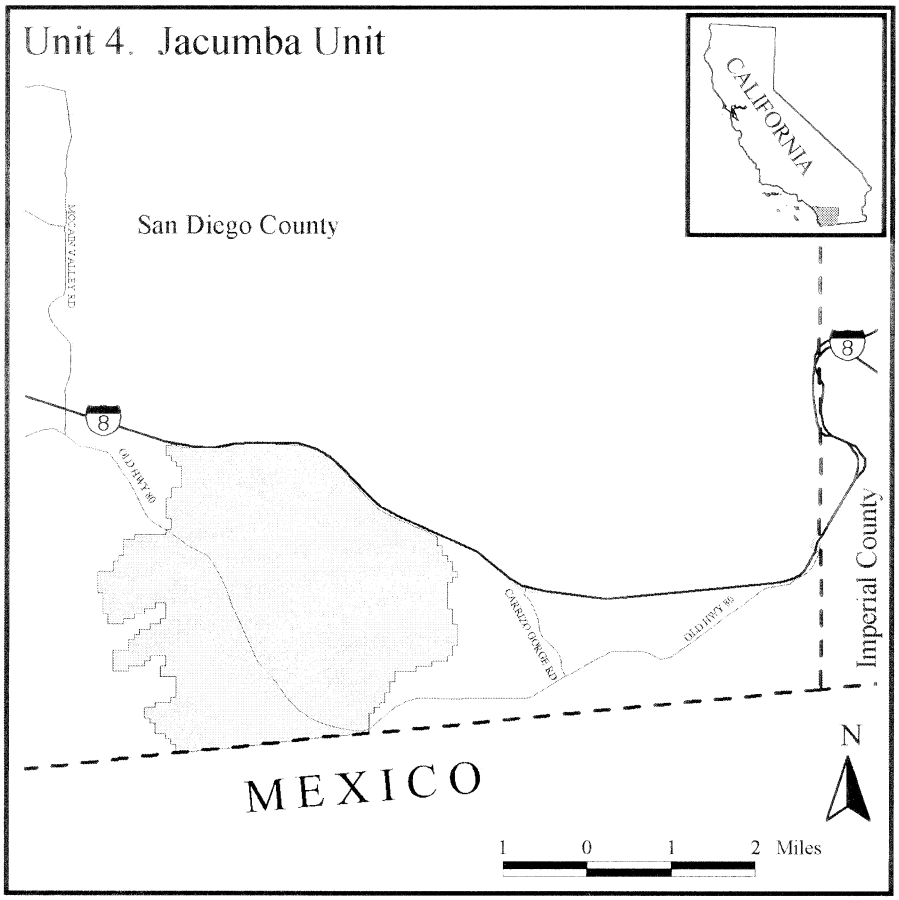


(9) Unit 4: Jacumba, San Diego County, California.

(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,

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(ii) Map Unit 4 follows:



HINE'S EMERALD DRAGONFLY (*Somatochlora hineana*)

(1) Critical habitat units are depicted for Cook, DuPage and Will Counties, Illinois; Alpena, Mackinac, and Presque Isle Counties, Michigan; and Door and Ozaukee Counties, Wisconsin, on the maps below.

(2) The PCEs of critical habitat for the Hine's emerald dragonfly are:

(i) For egg deposition and larval growth and development:

(A) Organic soils (histosols, or with organic surface horizon) overlying calcareous substrate (predominantly dolomite and limestone bedrock);

(B) Calcareous water from intermittent seeps and springs and associated shallow, small, slow flowing streamlet channels, rivulets, and/or sheet flow within fens;

(C) Emergent herbaceous and woody vegetation for emergence facilitation and refugia;

(D) Occupied burrows maintained by crayfish for refugia; and

(E) Prey base of aquatic macroinvertebrates, including mayflies, aquatic isopods, caddisflies, midge larvae, and aquatic worms.

(ii) For adult foraging, reproduction, dispersal, and refugia necessary for roosting, resting and predator avoidance (especially during the vulnerable teneral stage):

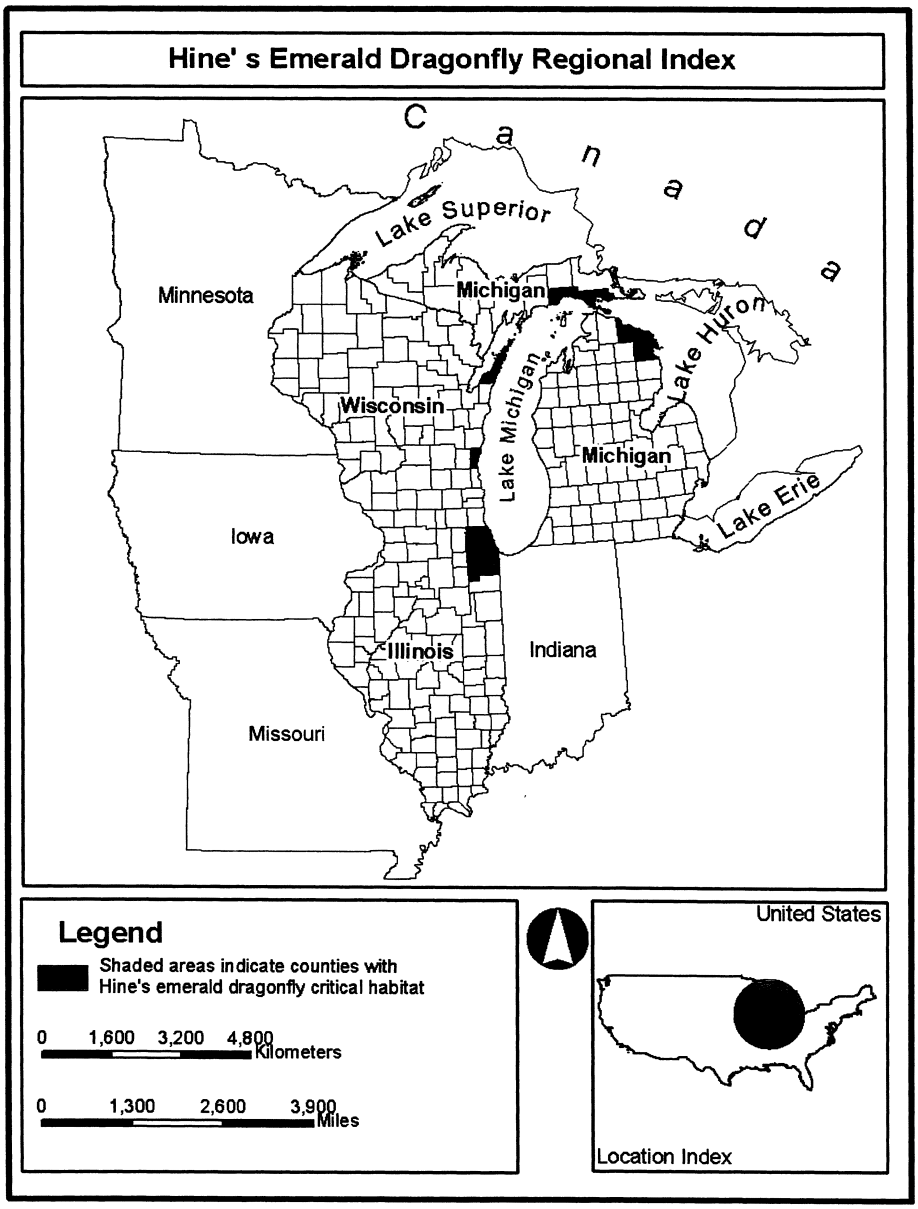
(A) Natural plant communities near the breeding/larval habitat which may include fen, marsh, sedge meadow, dolomite prairie, and the fringe (up to 328 ft (100m)) of bordering shrubby and forested areas with open corridors for movement and dispersal; and

(B) Prey base of small, flying insect species (e.g., dipterans).

(3) Critical habitat does not include human-made structures existing on the effective date of this rule and not containing one or more of the PCEs, such as buildings, lawns, old fields, hay meadows, fallow crop fields, manicured lawns, pastures, piers and docks, aqueducts, airports, and roads, and the land on which such structures are located. We define ''old field'' here as cleared areas that were formerly forested and may have been used as crop or pasture land that currently support a mixture of native and non-native herbs and low shrubs. ''Fallow field'' is defined as a formerly plowed field that has been left unseeded for a season or more and is presently uncultivated. In addition, critical habitat does not include open-water areas (*i.e.*, areas beyond the zone of emergent vegetation) of lakes and ponds.

(4) *Critical habitat map units.* Data layers defining map units were created on a base of USGS 7.5′ quadrangles, and critical habitat units were then mapped using Geographical Information Systems, Universal Transverse Mercator (UTM) coordinates. Critical habitat units are described using the public land survey system (township (T), range (R) and section (Sec.)).

(5) Note: Index map of critical habitat units (Index map) follows:



(6) Illinois Units 1 through 7, Cook, DuPage, and Will Counties, Illinois.

(i) Illinois Unit 1: Will County. Located in T36N, R10E, Sec. 22, Sec. 27, SE¼ NE¼ Sec. 28, NE¼ SE¼ Sec. 28, NW¼ NW¼ Sec. 34 of the Joliet 7.5′ USGS topographic quadrangle. Land south of Illinois State Route 7, east of Illinois State Route 53, and west of the Des Plaines River.

(ii) Illinois Unit 2: Will County. Located in T36N, R10E, Sec. 3, NW¼ E½ Sec. 10, E½ Sec. 15 of the Romeoville and Joliet 7.5′ USGS

topographic quadrangles. Land east of Illinois State Route 53, and west of the Des Plaines River.

(iii) Illinois Unit 3: Will County. Located in T37N, R10E, SW¼ Sec. 26, NW¼ SE¼ Sec. 26, E½ Sec. 34, W½ NW¼ Sec. 35 of the Romeoville 7.5′ USGS topographic quadrangle. Land west and north of the Des Plaines River and north of East Romeoville Road.

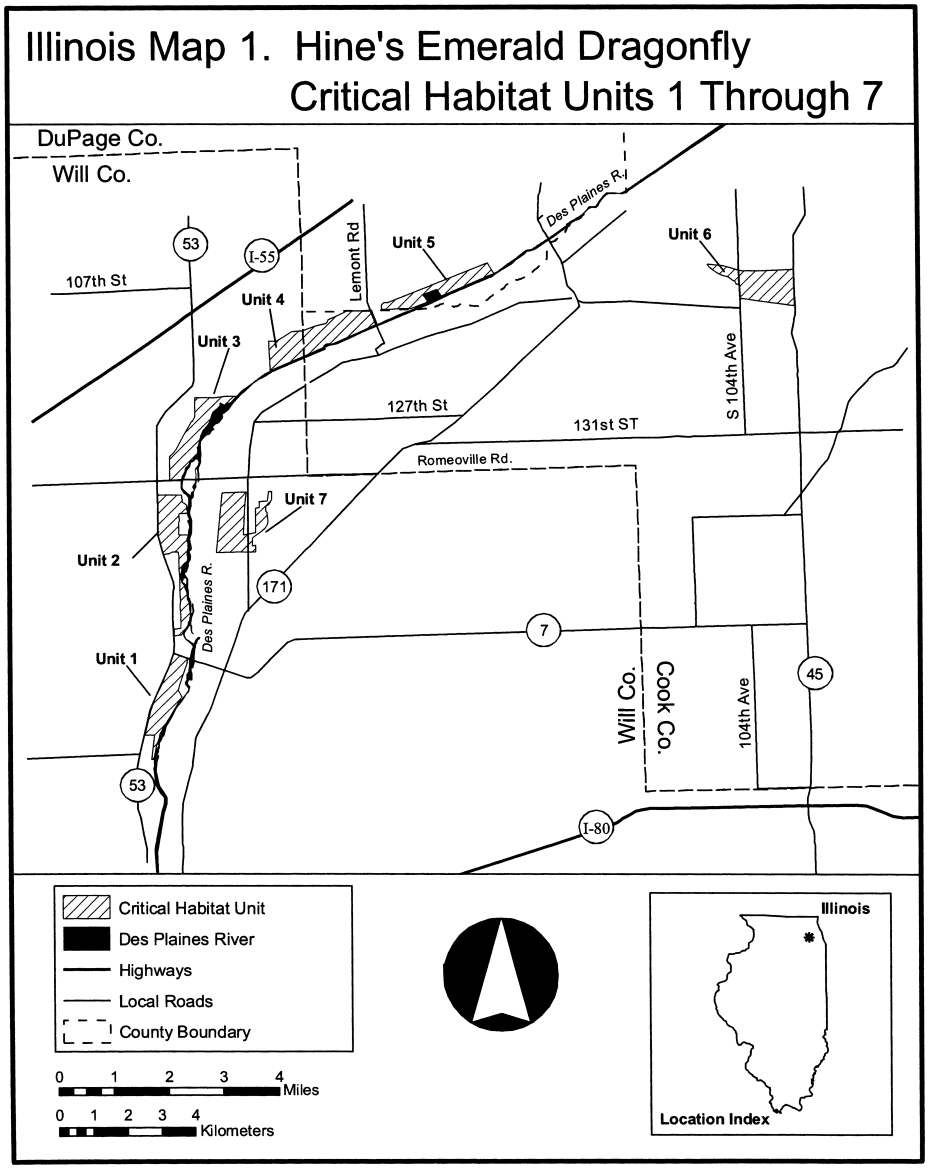
(iv) Illinois Unit 4: Will and Cook Counties. Located in T37N, R10E, S½ NE¼ Sec. 24, W½ SW¼ Sec. 24, SE¼ Sec. 24 and T37N, R11E, SW¼ SW¼ Sec. 17, Sec. 19, NW¼ Sec. 20 of the Romeoville 7.5′ USGS topographic quadrangle. Land to the south of Bluff Road, west of Lemont Road, and north of the Des Plaines River.

(v) Illinois Unit 5: DuPage County. Located in T37N, R11E, NW¼ Sec. 15, NW¼ SW¼ Sec. 15, S½ NE¼ Sec. 16, SW¼ Sec. 16, N½ SE¼ Sec. 16, SE¼ Sec. 17 of the Sag Bridge 7.5′ USGS topographic quadrangle. Land to the north of the Des Plaines River.

(vi) Illinois Unit 6: Cook County. Located in T37N, R12E, S½ Sec. 16, S½ NE¼ Sec. 17, N½ SE¼ Sec. 17, N½ Sec. 21 of the Sag Bridge and Palos Park 7.5′ USGS topographic quadrangles. Land to the north of the Calumet Sag Channel, south of 107th Street, and east of U.S. Route 45.

(vii) Illinois Unit 7: Will County. Located in T36N, R10E, W½ Sec. 1, Sec. 2, N½ Sec. 11 of the Romeoville and Joliet 7.5′; USGS topographic quadrangles. Land east of the Illinois and Michigan Canal.

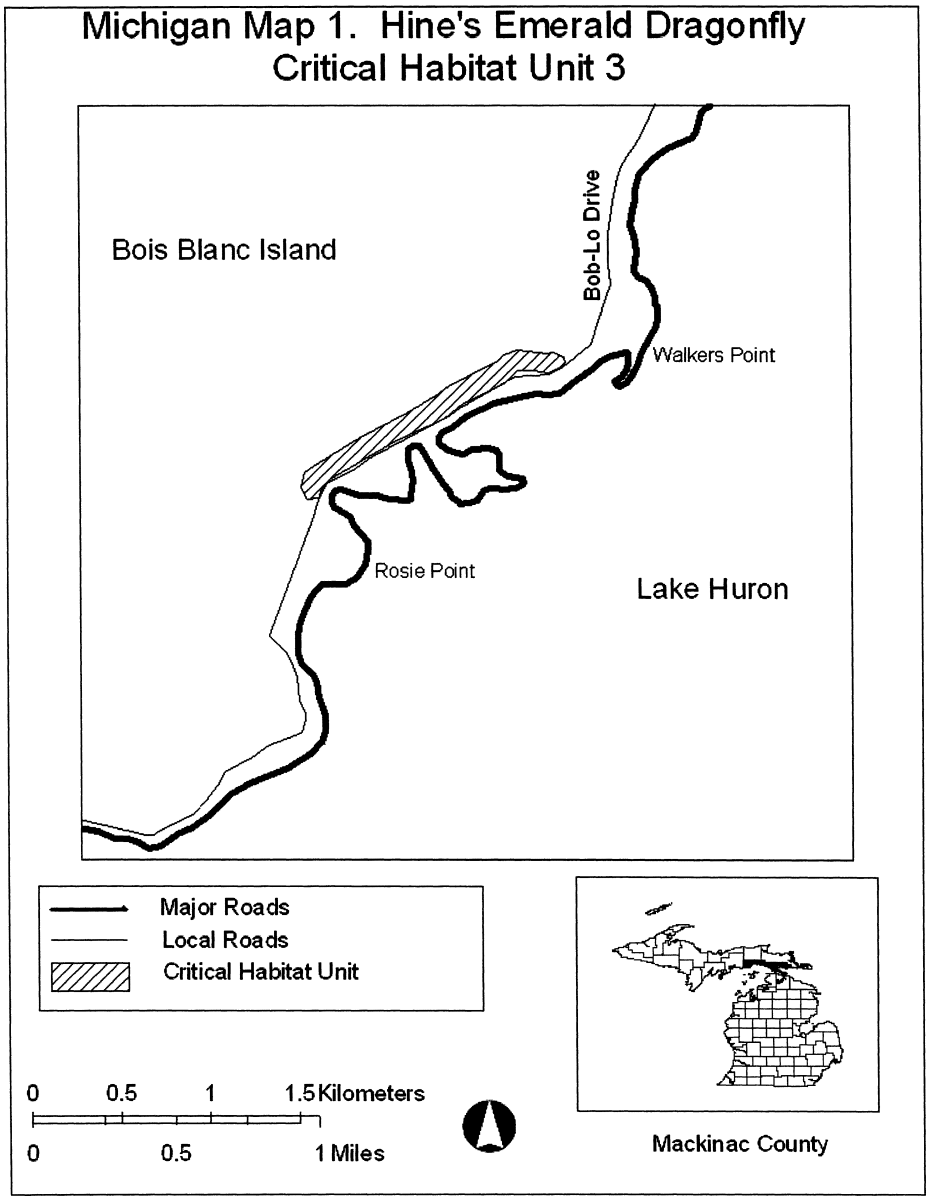
(viii) Note: Map of Illinois critical habitat Units 1 through 7 (Illinois Map 1) follows:



(7) Michigan Unit 3, Mackinac County, Michigan.

(i) Michigan Unit 3: Mackinac County. Located on the east end of Bois Blanc Island. Bois Blanc Island has not adopted an addressing system using the public land survey system. The unit is located in Government Lots 25 and 26 of the Cheboygan and McRae Bay 7.5′; USGS topographic quadrangles. The unit extends from approximately Walker's Point south to Rosie Point on the west side of Bob-Lo Drive. It extends from the road approximately 328 ft (100 m) to the west.

(ii) Note: Map of Michigan critical habitat Unit 3 (Michigan Map 1) follows:

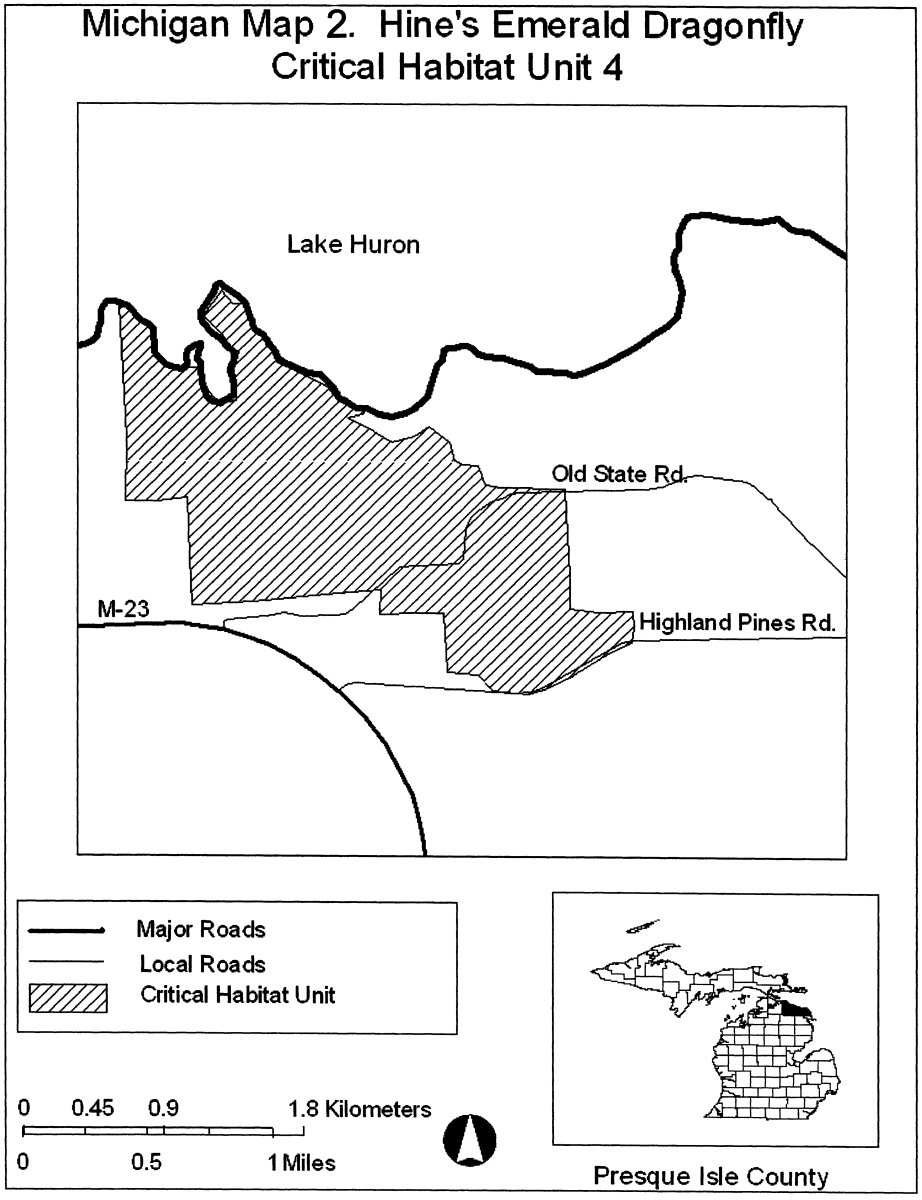


(8) Michigan Unit 4, Presque Isle County, Michigan.

(i) Michigan Unit 4: Presque Isle County. Located approximately 12 miles southeast of the village of Rogers City. The unit contains all of T34N, R7E, SW¼ SW¼ Sec. 14, SW¼ NW¼ Sec. 15, NE¼ SW¼ Sec. 15, NW¼ SE¼ Sec. 15, NW¼ SW¼ Sec. 15, SE¼ SE¼ Sec. 15, NW¼ NE¼ Sec. 16, NE¼ NW¼ Sec. 16, SE¼ NE¼ Sec. 16, and NW¼ NW¼ Sec. 23. It also contains portions of T34N, R7E, all ¼ sections in Secs. 15, all ¼ sections in Sec. 16, SE¼ and SW¼ Sec. 9, SW¼ Sec. 10, SW¼ Sec. 14, NE¼ Sec. 22, NW¼ and NE¼ Sec. 23

of the Thompson's Harbor 7.5′ USGS topographic quadrangle. The northern boundary of the unit is Lake Huron and the southern boundary is north of M–23.

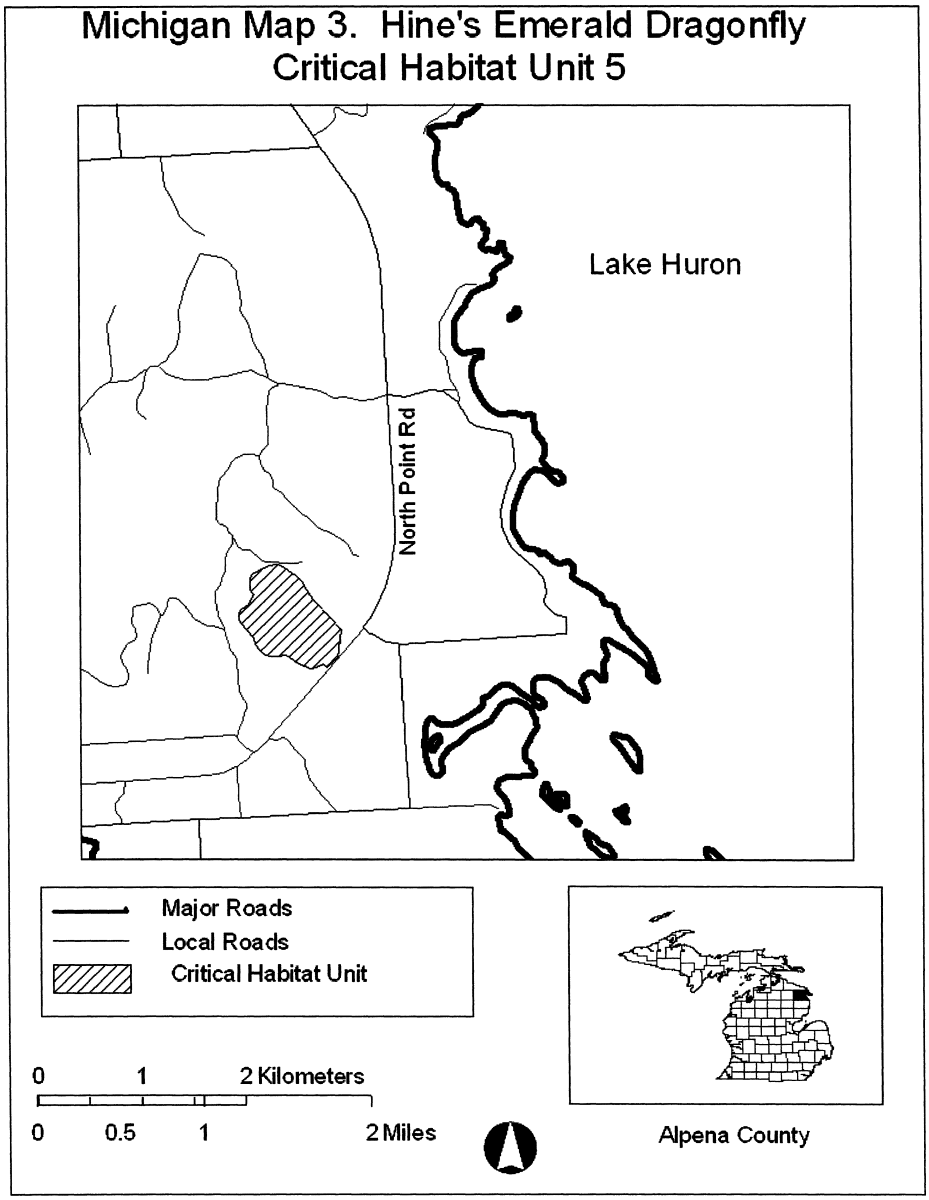
(ii) Note: Map of Michigan critical habitat Unit 4 (Michigan Map 2) follows:



(9) Michigan Unit 5, Alpena County, Michigan.

(i) Michigan Unit 5: Alpena County. Located approximately 9 miles northeast of the village of Alpena. The unit contains all of T31N, R9E, SE¼ SW¼ Sec. 9. It also contains portions of T31N, R9E, NW¼ SW¼ Sec. 9, NE¼ SW¼ Sec. 9, SW¼ SW¼ Sec. 9, SW¼ SE¼ Sec. 9; and portions of T31N, R9E, NE¼ NW¼ Sec. 16, NW¼ NE¼ Sec. 16, NW¼ NW¼ Sec. 16 of the 7.5′ USGS topographic quadrangle North Point 7.5′ USGS topographic quadrangle. North Point Road is east of the area.

(ii) Note: Map of Michigan critical habitat Unit 5 (Michigan Map 3) follows:

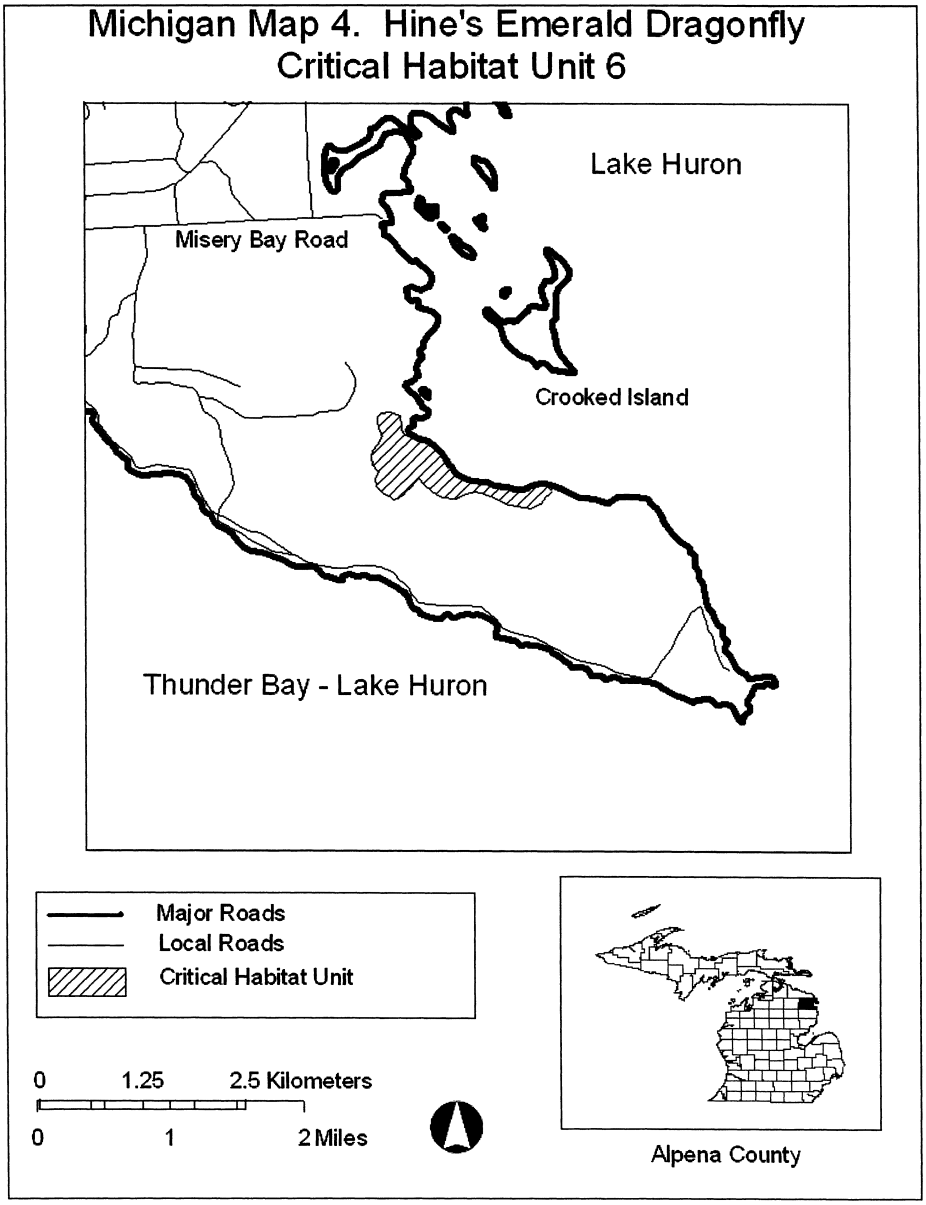


(10) Michigan Unit 6, Alpena County, Michigan.

(i) Michigan Unit 6: Alpena County. Located approximately 5 miles east of the village of Alpena. The unit contains all of T31N, R9E, SW¼ SE¼ Sec. 27. It also contains portions of T31N, R9E, NW¼ SE¼ Sec. 27, NE¼ SW¼ Sec. 27, SE¼ SW¼ Sec. 27, SE¼ SE¼ Sec. 27; portions of T31N, R9E, NE¼ NW¼ Sec. 34, NW¼ NE¼ Sec. 34, NE¼ NE¼ Sec. 34; and portions of T31N, R9E, NW¼ NW¼ Sec. 35, NE¼ NW¼, NW¼ NE¼ Sec. 35 of the

North Point 7.5′ USGS topographic quadrangle. Lake Huron is the east boundary of the unit.

(ii) Note: Map of Michigan critical habitat Unit 6 (Michigan Map 4) follows:

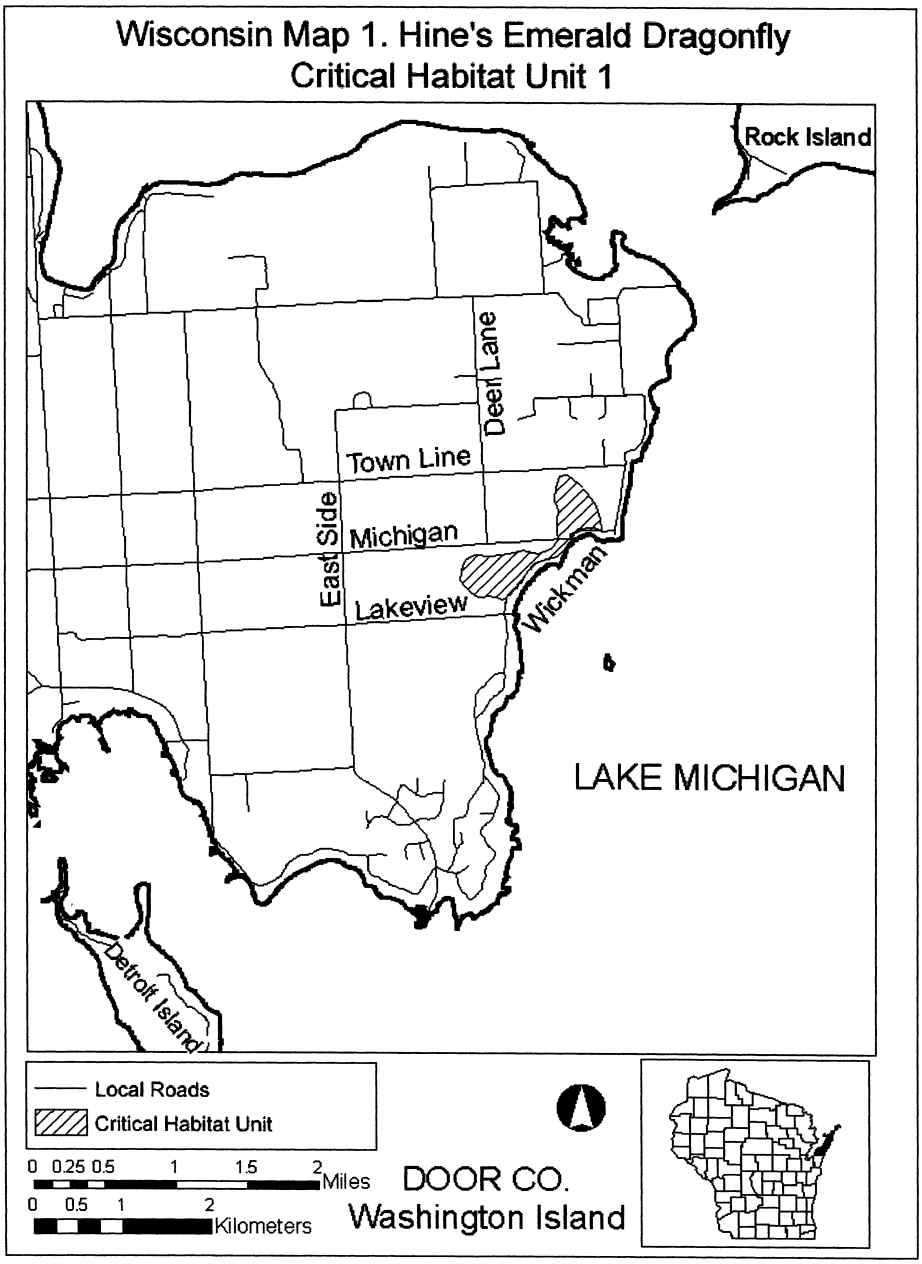


(11) Wisconsin Unit 1, Door County, Wisconsin.

(i) Wisconsin Unit 1: Washington Island, Door County. Located in T33N, R30E, W½

and NE¼ Sec. 4, SE¼ Sec. 5 of Washington Island SE and Washington Island NE 7.5′ USGS topographic quadrangles. Lands included are located adjacent to and west of Wickman Road, south of Town Line Road, East of Deer Lane and East Side Roads, north of Lake View Road and include Big Marsh and Little Marsh.

(ii) Note: Map of Wisconsin critical habitat Unit 1 (Wisconsin Map 1) follows:

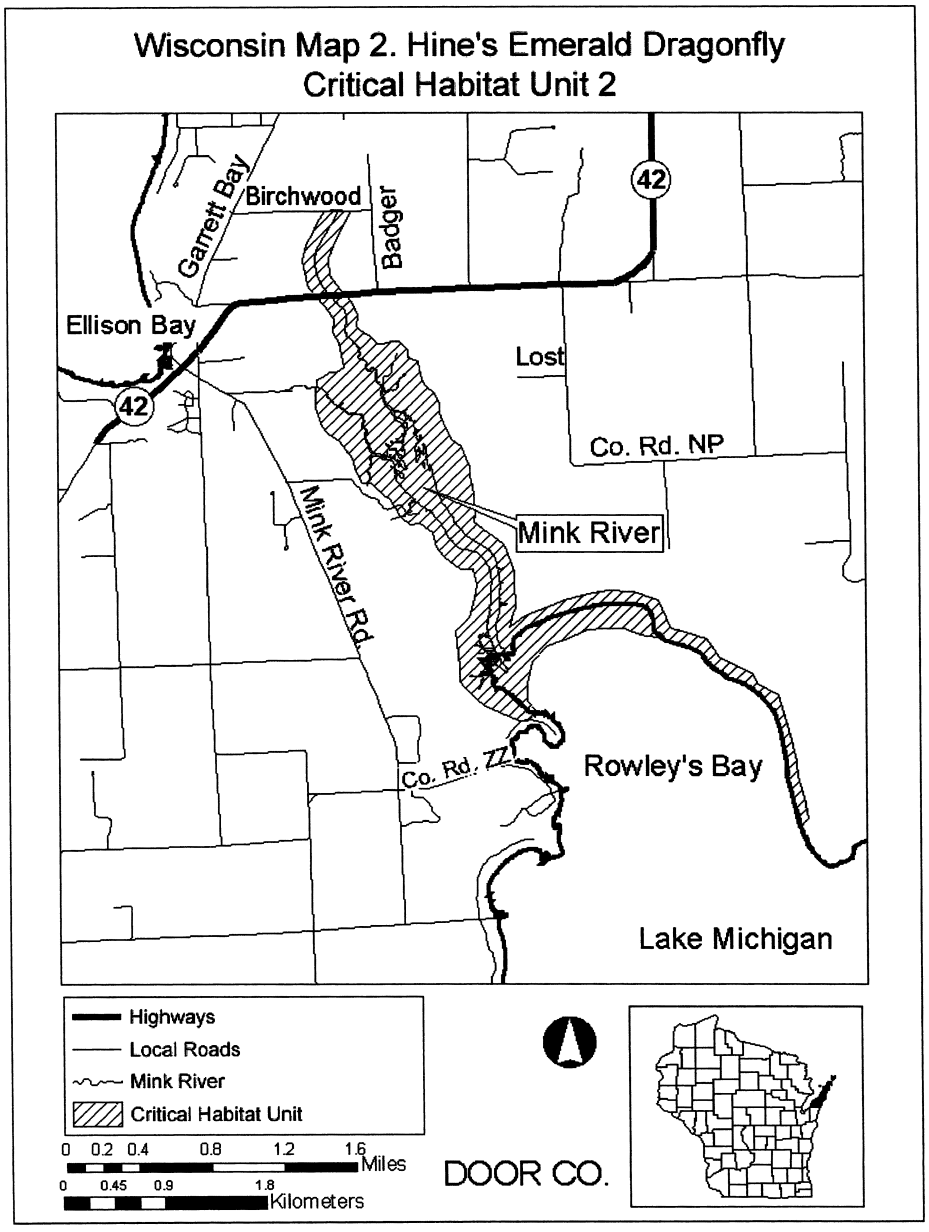


(12) Wisconsin Unit 2, Door County, Wisconsin.

(i) Wisconsin Unit 2: Door County. Located in T32N, R28E, SE¼ Sec. 11, NW¼ Sec. 13, NE¼ Sec. 14 of the Ellison Bay 7.5′ USGS topographic quadrangle, and in T32N, R28E, W½ Sec. 13, E½ Sec. 14, NE¼ Sec. 23, portions of each ¼ of Sec. 24, N½ Sec. 25, and

T32N, R29E, S½ Sec. 19, W½ Sec. 29, NE¼ Sec. 30 of Sister Bay 7.5′ USGS topographic quadrangle. Lands included are located east of the Village of Ellison Bay, south of Garrett Bay Road and Mink River Roads, North of County Road ZZ, west of Badger Road, County Road NP and Juice Mill Road, and includes the Mink River.

(ii) Note: Map of Wisconsin critical habitat Unit 2 (Wisconsin Map 2) follows:



(13) Wisconsin Units 3 through 7, Door County, Wisconsin.

(i) Wisconsin Unit 3: Door County. Located in T31N R28E, S½ S10, NE¼ S15 of Sister Bay 7.5′ USGS topographic quadrangle. Lands included are located south of County Road ZZ, north of North Bay (Lake Michigan), west of North Bay Road, east of Old Stage Road and about two miles east of the Village of Sister Bay and include a portion of Three-Springs Creek.

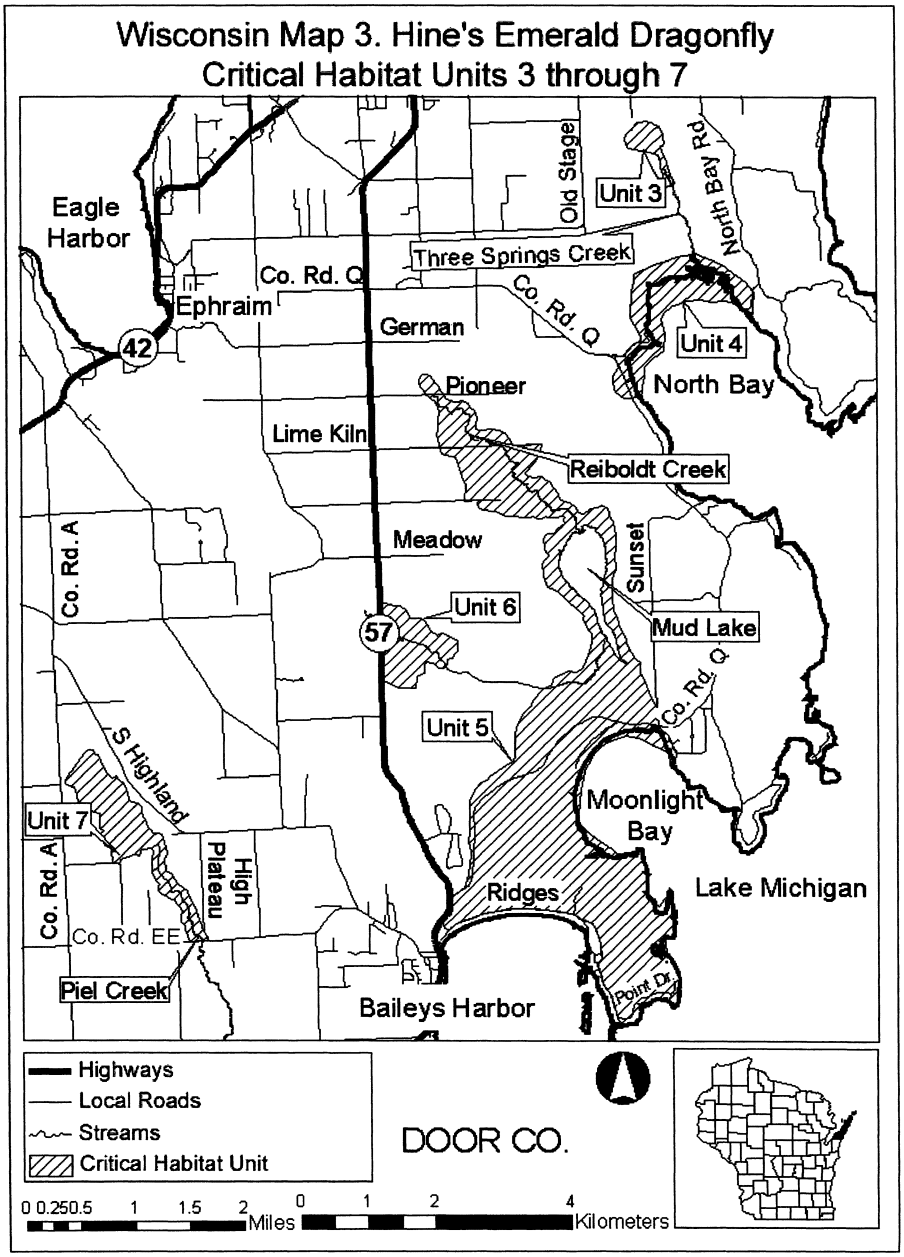
(ii) Wisconsin Unit 4: Door County. Located in T31N, R28E, SW¼ and S½ Sec. 15, portions of each ¼ of Sec. 22, and N½ of Sec. 23 of the Sister Bay 7.5′ USGS topographic quadrangle. Lands are located along the north and northwest sides of North Bay (Lake Michigan).

(iii) Wisconsin Unit 5: Door County. Located in T31N, R28E, S½ Sec. 20, E½ Sec. 29, NW¼ and S½ Sec. 28, N½ and SE¼ Sec. 33, and W½ Sec. 34. It also is located in T30N, R28E, W½ Sec. 3, E½ and SW¼ Sec. 4, SE¼ Sec. 8, Sec. 9, N½ Sec. 10, W½ and SE¼ Sec.15, Sec. 16, and Sec. 17 of the Baileys Harbor East, and Sister Bay 7.5′ USGS topographic quadrangles. Lands located south of German Road, east of State Highway 57, west of North Bay Drive, Sunset Drive and Moonlight Bay (Lake Michigan), north of Ridges Road and Point Drive and include Mud Lake and Reiboldt Creek.

(iv) Wisconsin Unit 6: Door County. Located in T30N, R28E, portions of each ¼ of Sec. 5 of the Baileys Harbor East 7.5′ USGS topographic quadrangle and Baileys Harbor West 7.5′ USGS topographic quadrangle. Lands are located about 2¼ miles north of the Town of Baileys Harbor, east of State Highway 57, south of Meadow Road and are associated with an unnamed stream.

(v) Wisconsin Unit 7: Door County. Located in T30N, R27E, Sec. 11, SW¼ Sec. 13, and N½ and SE ¼ Sec. 14 of the Baileys Harbor West 7.5′ USGS topographic quadrangle. Lands are located north of County Road EE, east of County Road A and west of South Highland and High Plateau Roads, about two miles northeast of Town of Baileys Harbor and are associated with the headwaters of Piel Creek.

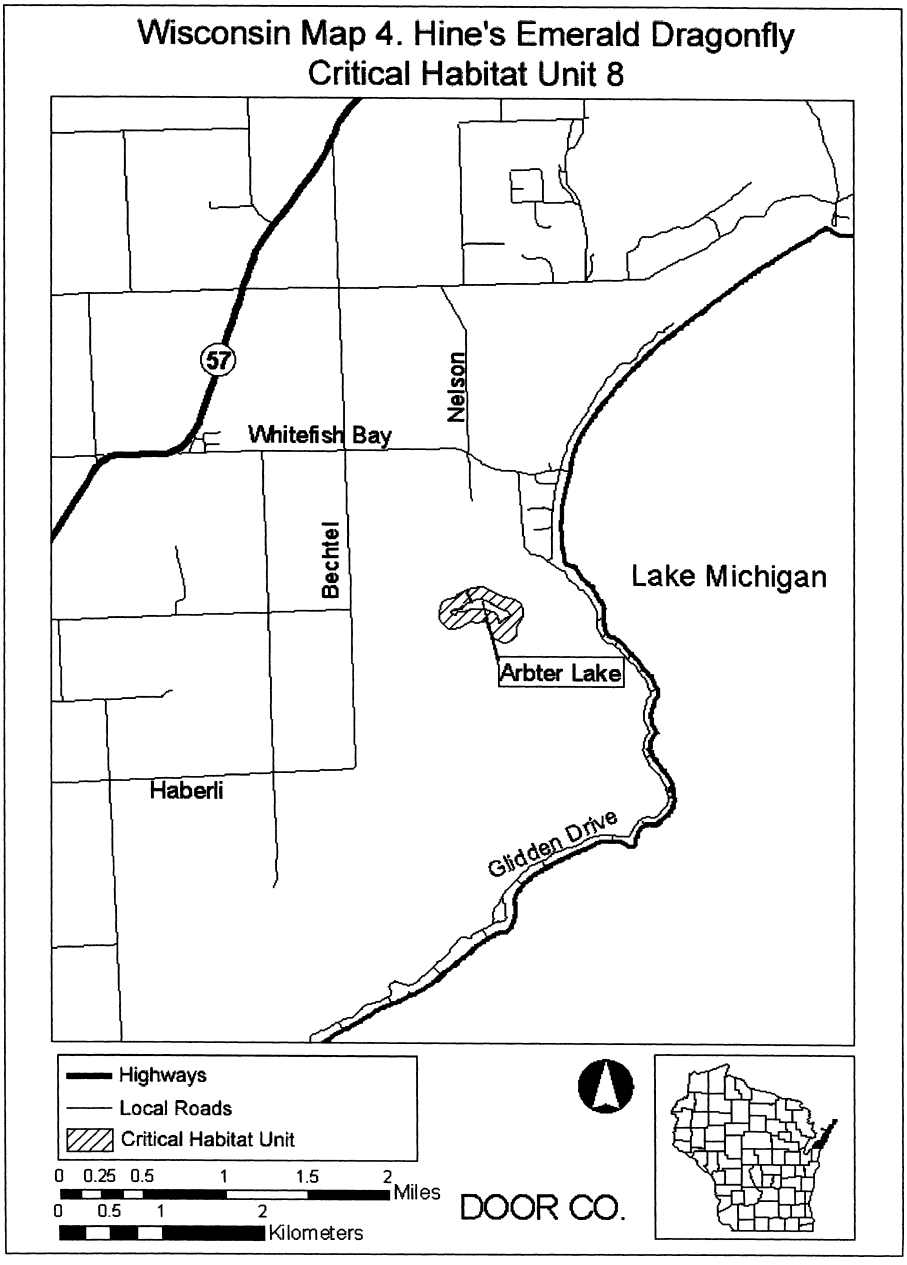
(vi) Note: Map of Wisconsin critical habitat Units 3 through 7 (Wisconsin Map 3) follows:



(14) Wisconsin Unit 8, Door County, Wisconsin.

(i) Wisconsin Unit 8: Door County. Located in T28N, R27E, S½ Sec. 16, N½ Sec. 21 of the Jacksonport 7.5′ USGS topographic quadrangle. Lands are located east of Bechtel Road, South of Whitefish Bay Road, west of Glidden Drive and include Arbter Lake.

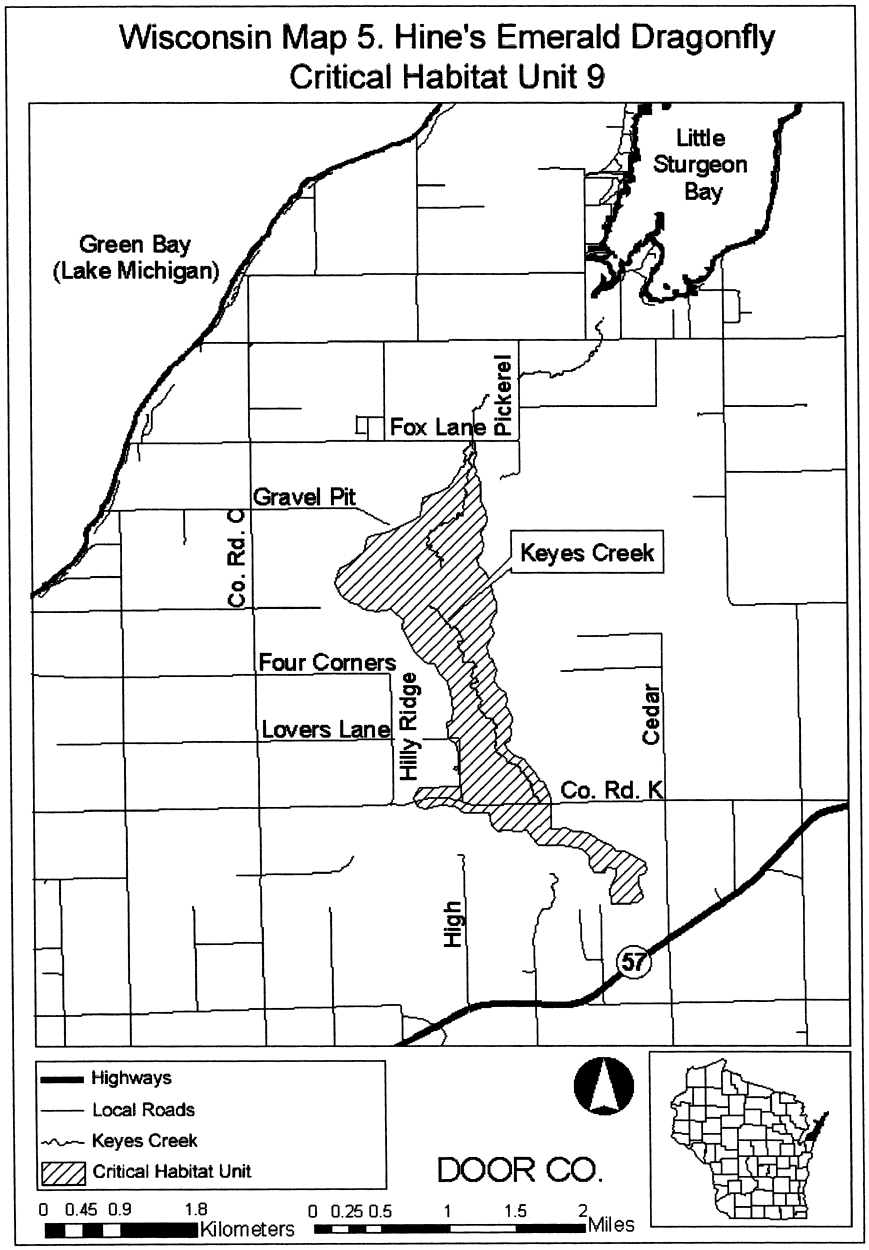
(ii) Note: Map of Wisconsin critical habitat Unit 8 (Wisconsin Map 4) follows:



(15) Wisconsin Unit 9, Door County, Wisconsin.

(i) Wisconsin Unit 9: Door County, Wisconsin. Located in T27N, R24E, SE¼ Sec.16, E½ Sec. 20, portions of each ¼ of Secs. 21, 28 and 33, NW¼ and S½ Sec. 34. Also located in T26N, R24E, NW¼ Sec. 3 of the Little Sturgeon 7.5′ USGS topographic quadrangle. Lands are located west of Pickeral Road and Cedar Lane, north of State Highway 57, east of Hilly Ridge Road and County Road C, south of Fox Lane Road, about 1.5 miles southwest of Little Sturgeon Bay (Lake Michigan) and include portions of Keyes Creek and associated wetlands.

(ii) Note: Map of Wisconsin critical habitat Unit 9 (Wisconsin Map 5) follows:

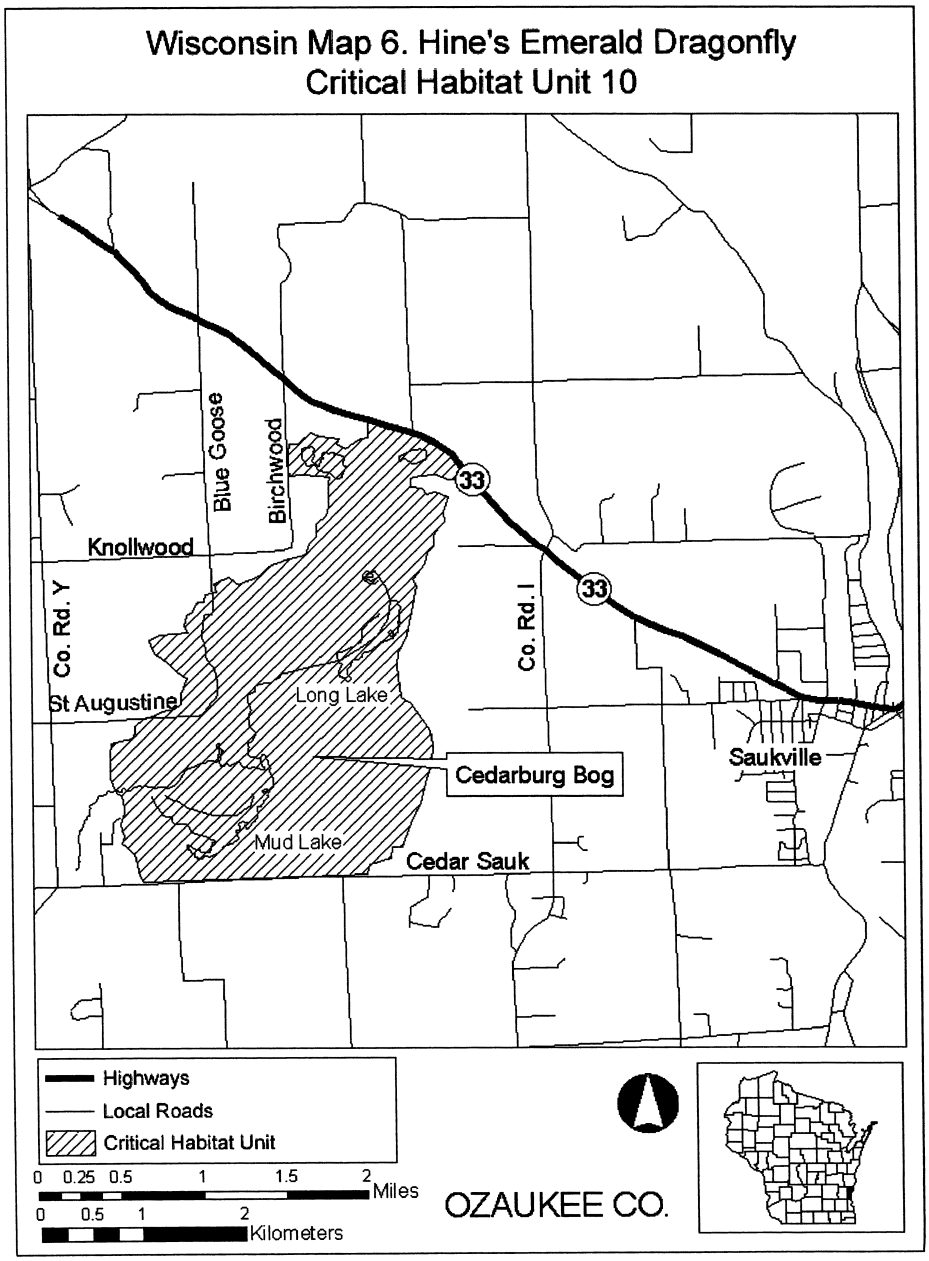


(16) Wisconsin Unit 10, Ozaukee County, Wisconsin.

(i) Wisconsin Unit 10: Ozaukee County. Located in T11N, R21E, E½ of Sec. 20, portions of each ¼ of Sec. 21, W½ Sec. 28, Sec. 29, E½ Sec. 30, E½ and portions of NW¼ and SW¼ Sec. 31, Sec. 32, and W½ Sec. 33 of the Cedarburg, Five Corners, Newburg, and Port

Washington West 7.5′ USGS topographic quadrangles. Lands are located south of State Highway 33, east of County Road Y and Birchwood Road, north of Cedar Sauk Road about 2 miles west of Saukville, and includes the majority of Cedarburg Bog.

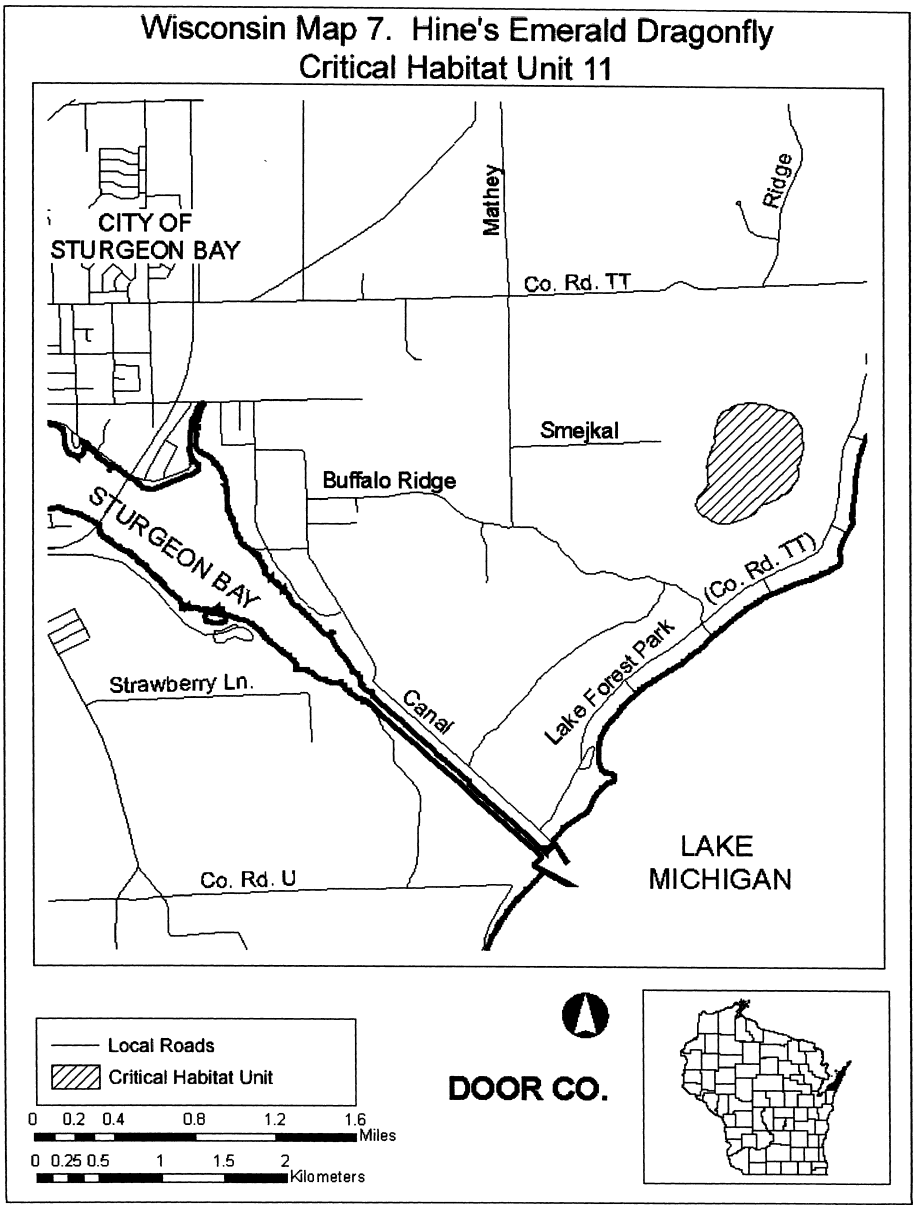
(ii) Note: Map of Wisconsin critical habitat Unit 10 (Wisconsin Map 6) follows:



(17) Wisconsin Unit 11, Door County, Wisconsin.

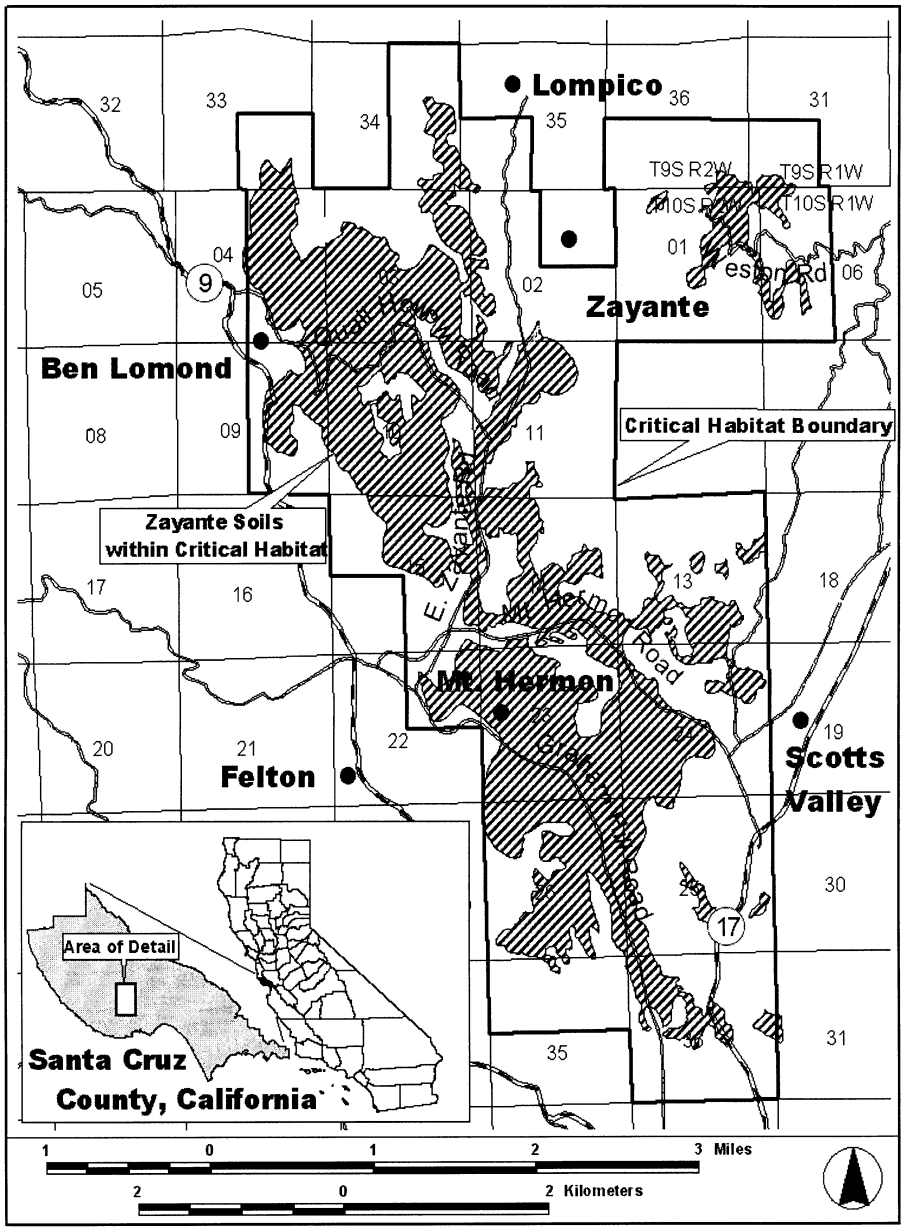
(i) Wisconsin Unit 11: Door County. Located in T27N, R26E, SE¼ Sec. 11, Sec. 12, NW¼ Sec. 13, and NE¼ Sec. 14 of the Sturgeon Bay East 7.5′ USGS topographic quadrangle. Lands are located south of County Road TT, east of Mathey Road, north of Buffalo Ridge Trail, west of Lake Forest Park Road (also County Road TT), about 1½ miles west of the City of Sturgeon Bay, and include portions of Kellner's Fen.

(ii) Note: Map of Wisconsin critical habitat Unit 11 (Wisconsin Map 7) follows:



ZAYANTE BAND-WINGED GRASSHOPPER
(*Trimerotropis infantilis*)

1. The unit of critical habitat is depicted for Santa Cruz County, California, on the map below.



2. Within this area, the primary constituent elements for the Zayante bandwinged 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., SE¼ sec. 31; T.9 S., R.2 W., SE¼ sec. 33, E½ sec. 34, SW¼ sec. 35, S½ sec. 3; T.10 S., R1 W., W½ sec. 6; T.10 S., R.2 W., sec. 1, S½ NW¼ sec. 2, sec. 3, W½ sec. 4, W½ sec. 9, sec. 10, sec. 11, sec. 13, sec. 14, N½ SE¼ sec. 15, NE¼ sec. 22, secs. 23–26, N½ 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.

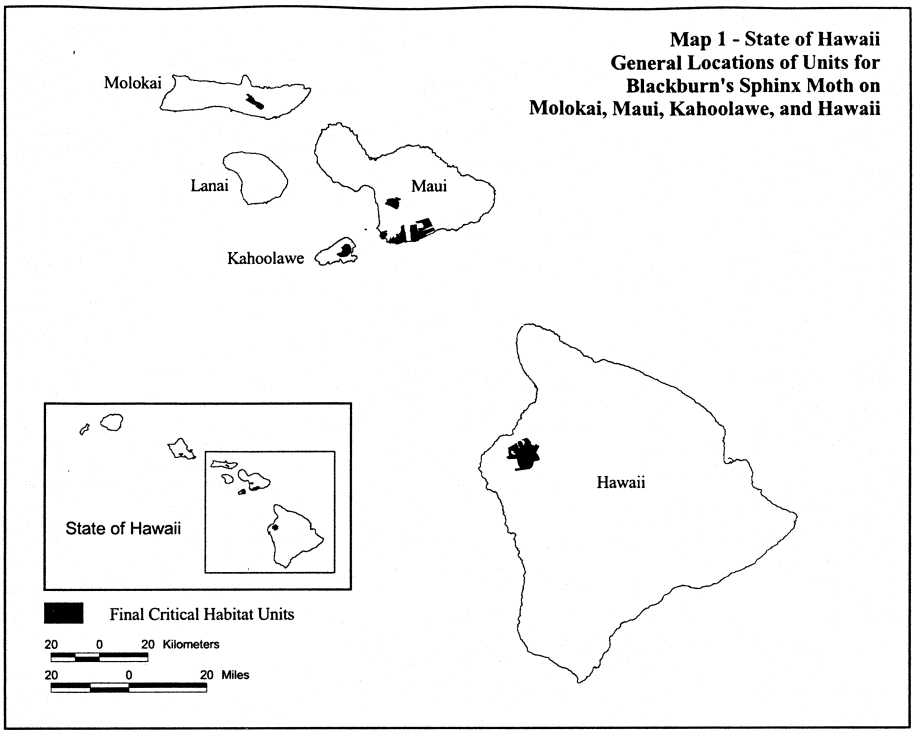
(ii) Based on our current knowledge of the species, the primary constituent elements required by Blackburn's sphinx moth adults for foraging, sheltering, dispersal, breeding, and egg production are native nectar-supplying plants, including, but not limited to, *Ipomoea* spp., *Capparis sandwichiana*, 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:



(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.

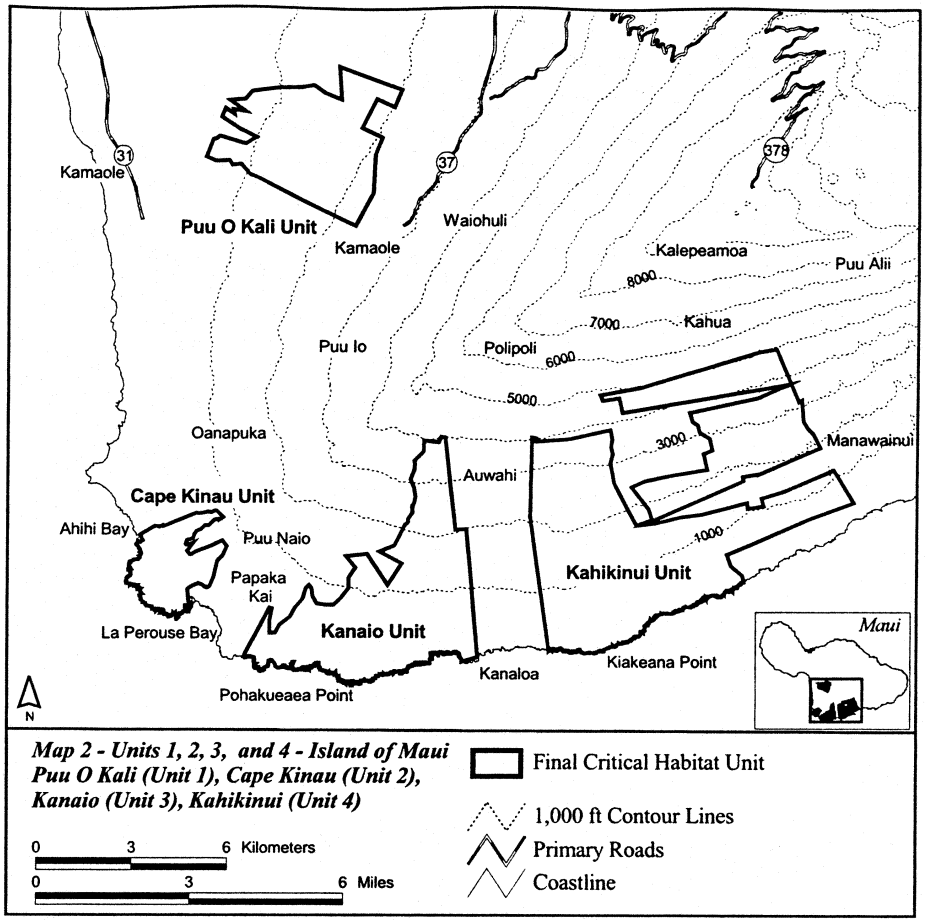
(B) Unit excludes an area (1 ha; 2 ac) consisting of the following 6 boundary points: 771887, 2277914; 771944, 2277910; 771986, 2277995; 771948, 2277989; 771909, 2277980; 771870, 2277975.

(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:



(vi) Unit 5: Island of Maui, Kanaha Pond (56 ha; 139 ac):

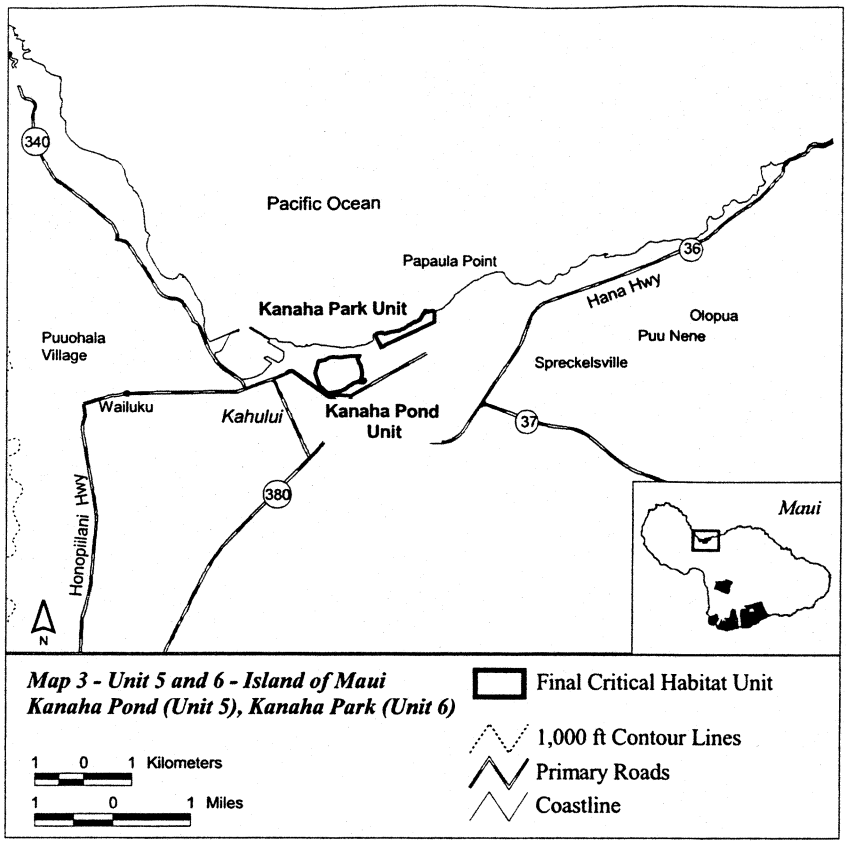
(A) Unit 5 consists of the following 35 boundary points: Start at 764695, 2312624; 764849, 2312615; 765062, 2312636; 765174, 2312639; 765226, 2312636; 765201, 2312573; 765221, 2312534; 765223, 2312502; 765259, 2312452; 765291, 2312304; 765287, 2312260; 765291, 2312223; 765281, 2312190; 765356, 2312144; 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.

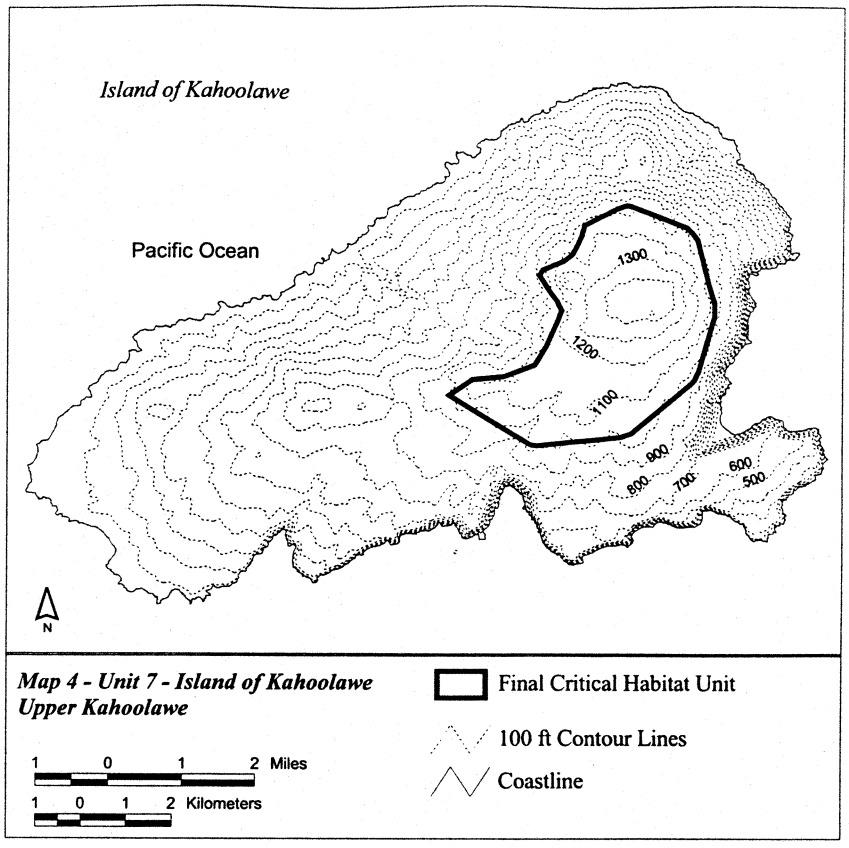
(B) NOTE: Unit 6 is depicted on Map 3—Units 5 and 6—Island of Maui, which follows:



(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:



(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:

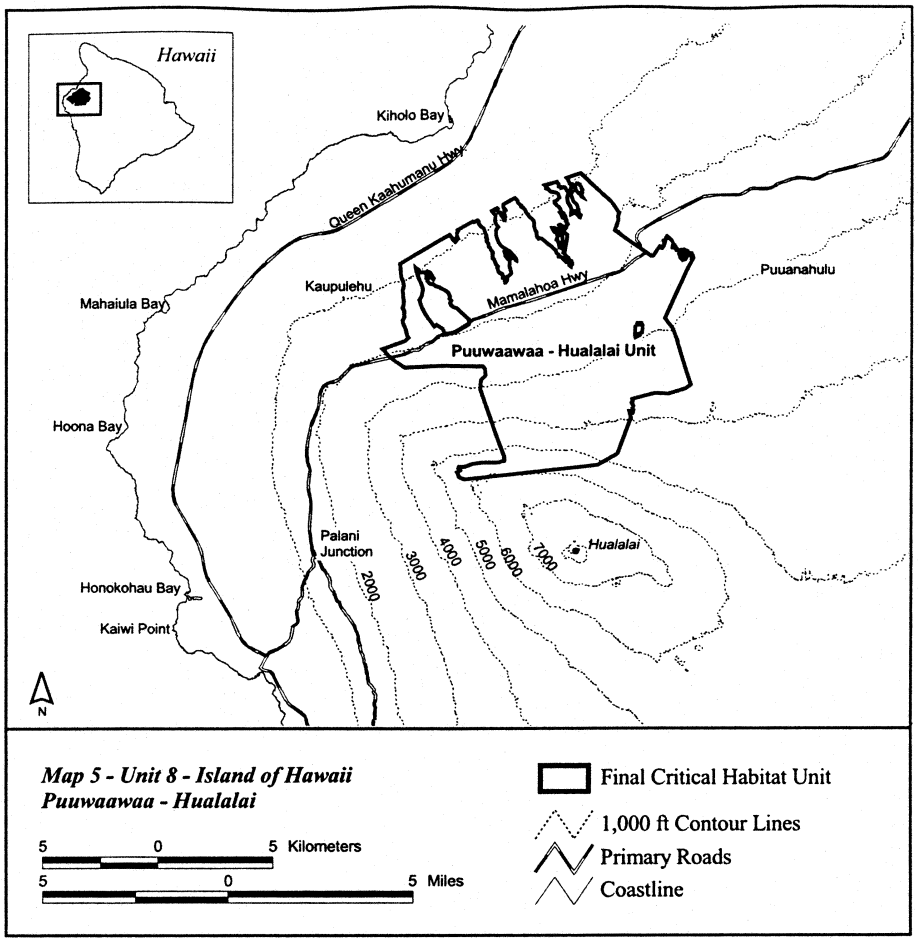
(*1*) Unit excludes an area (292 ha; 723 ac) consisting of the following 53 boundary points: Start at 194866, 2189663; 194567, 2189462; 194355, 2189326; 194325, 2189306; 194187, 2189261; 193786, 2189183; 193790, 2189211; 193677, 2189413; 193430, 2189605; 193325, 2189528; 192941, 2190012; 192773, 2190361; 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:



(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;

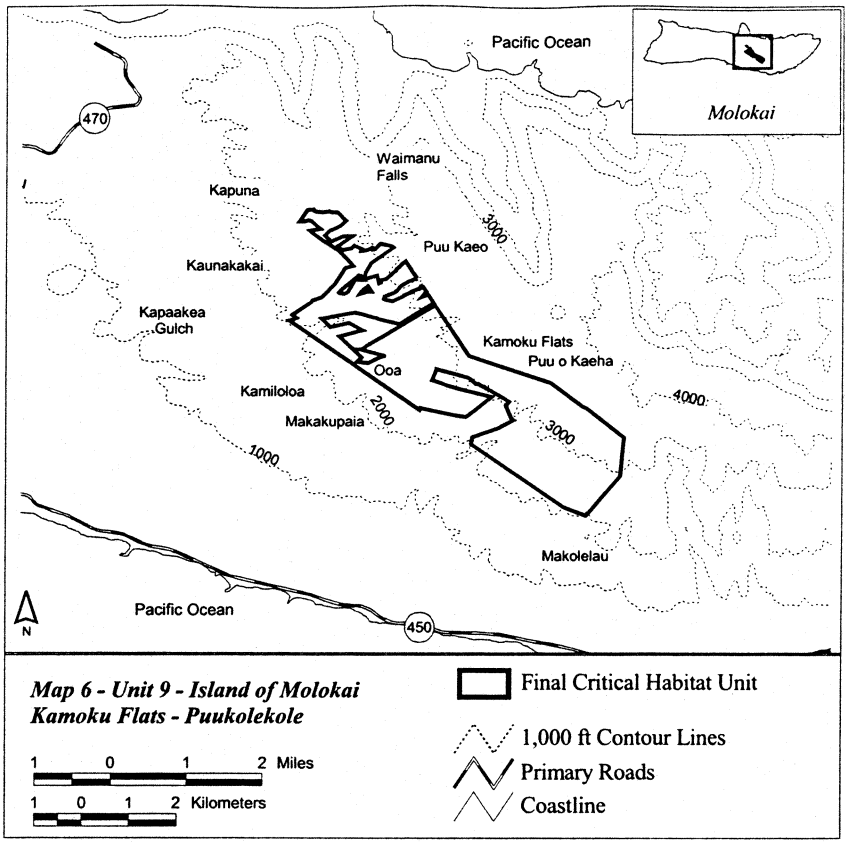
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(B) This unit excludes two areas:

(*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:

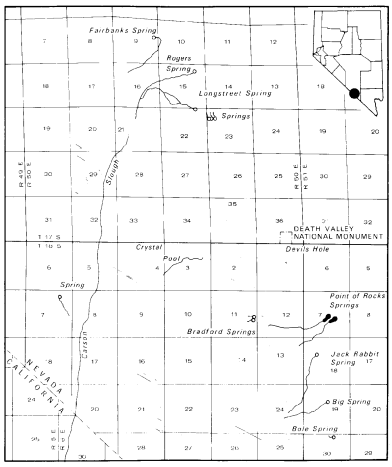


ASH MEADOWS NAUCORID (*Ambrysus amargosus*)

Nevada, Nye County, Point of Rocks Springs and their immediate outflows in SE¼ sec. 7, T18S, R51E.

Known primary constituent elements include flowing warm water over rock and gravel substrate.

NOTE: Map follows:



LAGUNA MOUNTAINS SKIPPER (*Pyrgus ruralis lagunae*)

(1) Critical habitat units are depicted for San Diego County, California, on the maps below.

(2) The primary constituent elements of critical habitat for the Laguna Mountains skipper are the habitat components that provide:

(i) The hostplants, *Horkelia clevelandii* or *Potentilla glandulosa*, which are needed for reproduction, in meadows or forest openings.

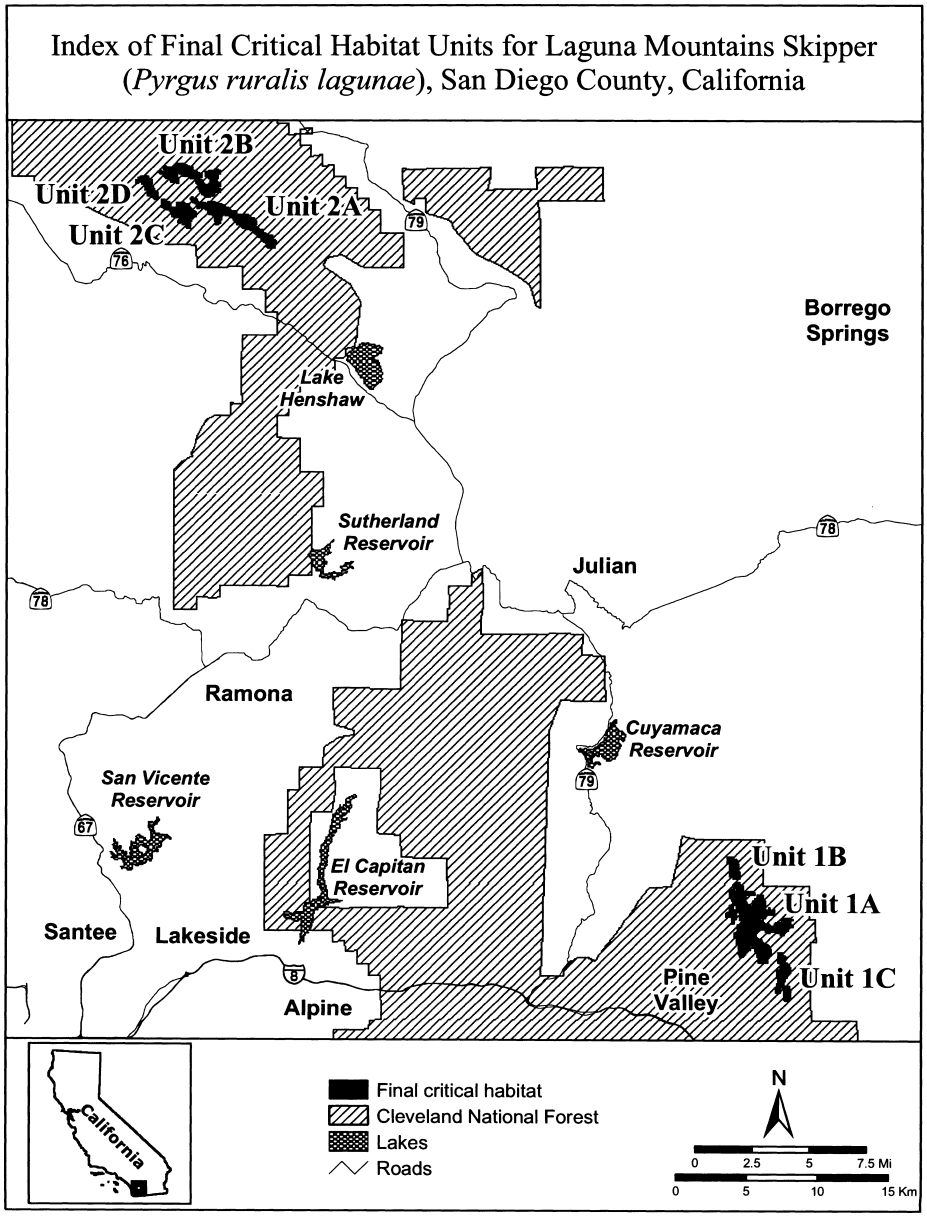
(ii) Nectar sources suitable for feeding by adult Laguna Mountains skipper, including *Lasthenia* spp., *Pentachaeta aurea*, *Ranunculus* spp., and *Sidalcea* spp., found in woodlands or meadows.

(iii) Wet soil or standing water associated with features such as seeps, springs, or creeks where water and minerals are obtained during the adult flight season.

(3) Critical habitat does not include man-made structures existing on the effective date of this rule and not containing one or more of the primary constituent elements, such as buildings, aqueducts, airports, and roads, and the land on which such structures are located.

(4) Data layers defining map units were created on a base of USGS 1:24,000 quadrangle maps, and critical habitat units were then mapped using Universal Transverse Mercator (UTM) coordinates.

(5) Note: Map 1 (index map) follows:



(6) Unit 1: Laguna Mountain, San Diego County, California. From USGS 1:24,000 quadrangle maps Monument Peak and Mount Laguna.

(i) Subunit 1A: lands bounded by the following UTM NAD27 coordinates (E,N): 551900, 3635400; 551900, 3635600; 551800, 3635600; 551800, 3635300; 552000, 3635300; 552000, 3634900; 551800, 3634900; 551800, 3635000; 551600, 3635000; 551600, 3634900; 551400, 3634900; 551400, 3635300; 551300, 3635300; 551300, 3635600; 551200,

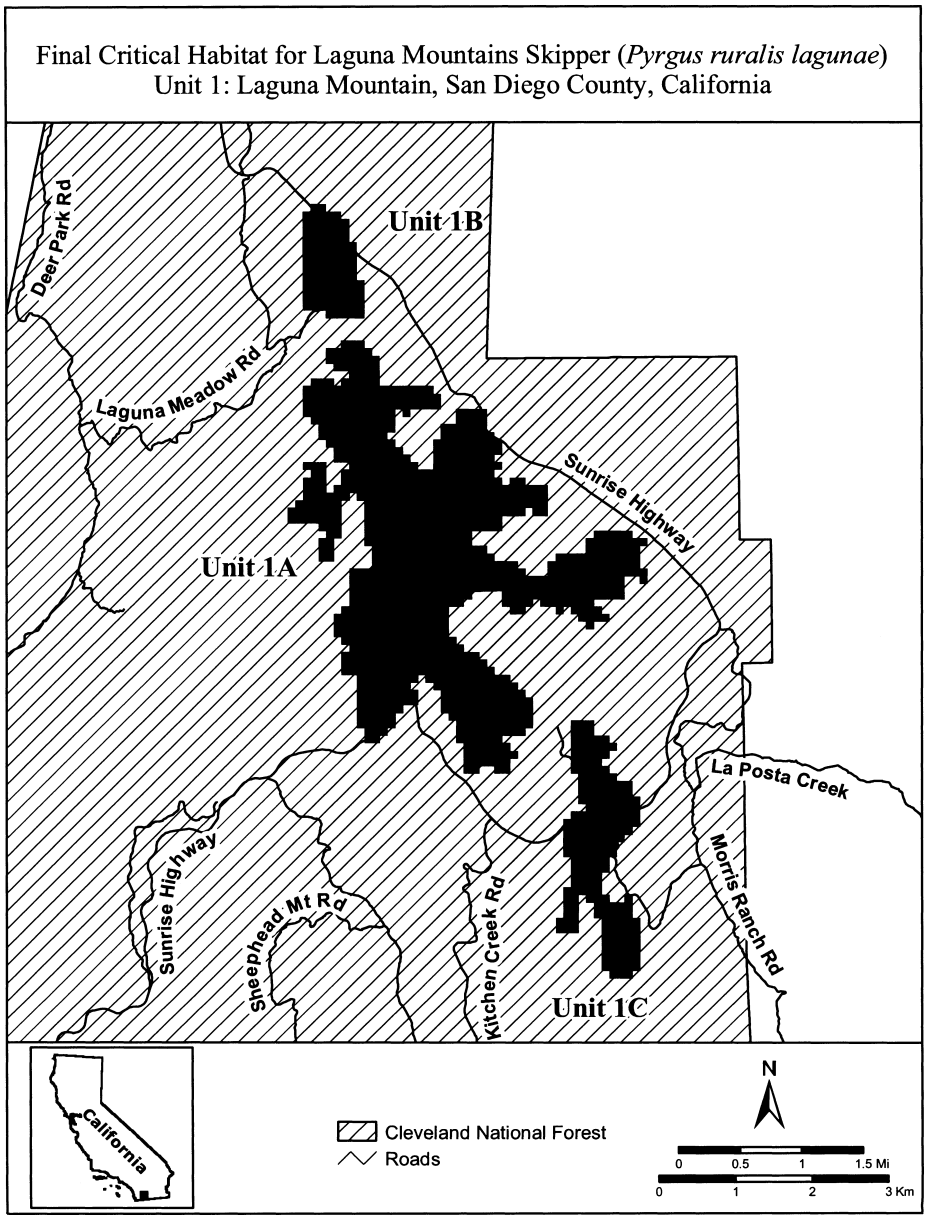
3635600; 551200, 3635700; 551100, 3635700; 551100, 3636000; 551000, 3636000; 551000, 3636100; 550900, 3636100; 550900, 3636200; 550800, 3636200; 550800, 3636100; 550700, 3636100; 550700, 3636000; 550800, 3636000; 550800, 3635800; 550600, 3635800; 550600, 3635700; 550500, 3635700; 550500, 3635500; 550400, 3635500; 550400, 3635400; 550300, 3635400; 550300, 3635300; 550100, 3635500; 550000, 3635500; 550000, 3636200; 549800, 3636200; 549800, 3636500; 549900, 3636500; 549900, 3636600; 549800, 3636600; 549800, 3636700; 549700, 3636700; 549700, 3637000; 549800, 3637000; 549800, 3637100; 549900, 3637100; 549900, 3637600; 550200, 3637600; 550200, 3637900; 550100, 3637900; 550100, 3638500; 550000, 3638500; 550000, 3638600; 549900, 3638600; 549900, 3638500; 549800, 3638500; 549800, 3638000; 549700, 3638000; 549700, 3637700; 549500, 3637700; 549500, 3638000; 549600, 3638000; 549600, 3638100; 549500, 3638100; 549500, 3638200; 549100, 3638200; 549100, 3638400; 549200, 3638400; 549200, 3638500; 549300, 3638500; 549300, 3638800; 549400, 3638800; 549400, 3638900; 549300, 3638900; 549300, 3639000; 549600, 3639000; 549600, 3638600; 549700, 3638600; 549700, 3638700; 549800, 3638700; 549800, 3638900; 549900, 3638900; 549900, 3639000; 549700, 3639000; 549700, 3639200; 549600, 3639200; 549600, 3639300; 549500, 3639300; 549500, 3639500; 549400, 3639500; 549400, 3639600; 549300, 3639600; 549300, 3640000; 549400, 3640000; 549400, 3640100; 549700, 3640100; 549700, 3640000; 549800, 3640000; 549800, 3640100; 549900, 3640100; 549900, 3640200; 549700, 3640200; 549700, 3640300; 549600, 3640300; 549600, 3640500; 549800, 3640500; 549800, 3640600; 550100, 3640600; 550100, 3640500; 550200, 3640500; 550200, 3640400; 550300, 3640400; 550300, 3640000; 551000, 3640000; 551000, 3639900; 551100, 3639900; 551100, 3639700; 550500, 3639700; 550500, 3639400; 550400, 3639400; 550400, 3639300; 550500, 3639300; 550500, 3639200; 550600, 3639200; 550600, 3639100; 550700, 3639100; 550700, 3639000; 550800, 3639000; 550800, 3638900; 551000, 3638900; 551000, 3639300; 551100, 3639300; 551100, 3639500; 551300, 3639500; 551300, 3639700; 551700, 3639700; 551700, 3639400; 551800, 3639400; 551800, 3639300; 551900, 3639300; 551900, 3639100; 551800, 3639100; 551800, 3639000; 551900, 3639000; 551900, 3638900; 551800, 3638900; 551800, 3638800; 551900, 3638800; 551900, 3638700; 552100, 3638700; 552100, 3638800; 552200, 3638800; 552200, 3638700; 552500, 3638700; 552500, 3638300; 552300, 3638300; 552300, 3638400; 552200, 3638400; 552200, 3638300; 551900, 3638300; 551900, 3638100; 551500, 3638100; 551500, 3637900; 551700, 3637900; 551700, 3637800; 551800, 3637800; 551800, 3637700; 552100, 3637700; 552100, 3637600; 552200, 3637600; 552200, 3637500; 552500, 3637500; 552500, 3637700; 552600, 3637700; 552600, 3637800; 553000, 3637800; 553000, 3638000; 553100, 3638000; 553100, 3638100; 553600, 3638100; 553600, 3638000; 553800, 3638000; 553800, 3637900; 553700, 3637900; 553700, 3637600; 553800, 3637600; 553800, 3637400; 553700, 3637400; 553700, 3637500; 553500, 3637500; 553500, 3637200; 553100, 3637200; 553100, 3637100; 553200, 3637100; 553200, 3636900; 552900, 3636900; 552900, 3637000; 552800, 3637000; 552800, 3637100; 552700, 3637100; 552700, 3637000; 552600, 3637000; 552600, 3637100; 552400, 3637100; 552400, 3637200; 552300, 3637200; 552300, 3637100; 552200, 3637100; 552200, 3637000; 552000, 3637000; 552000, 3637100; 551900, 3637100; 551900, 3637300; 551500, 3637300; 551500, 3637200; 551400, 3637200; 551400, 3637100; 551200, 3637100; 551200, 3636700; 551300, 3636700; 551300, 3636600; 551400, 3636600; 551400, 3636500; 551600, 3636500; 551600, 3636400; 551700, 3636400; 551700, 3636300; 551800, 3636300; 551800, 3636200; 552000, 3636200; 552000, 3636100; 552100, 3636100; 552100, 3636000; 552200, 3636000; 552200, 3635900; 552300, 3635900; 552300, 3635500; 552200, 3635500; 552200, 3635400; 551900, 3635400.

(ii) Subunit 1B: lands bounded by the following UTM NAD27 coordinates (E,N): 549300, 3642300; 549400, 3642300; 549400, 3642400; 549600, 3642400; 549600, 3642300; 549800, 3642300; 549800, 3642200; 549900, 3642200; 549900, 3641900; 550000, 3641900; 550000, 3641400; 550100, 3641400; 550100, 3640900; 549600, 3640900; 549600, 3641000; 549300, 3641000; 549300, 3642300.

(iii) Subunit 1C: lands bounded by the following UTM NAD27 coordinates (E,N): 553000, 3634400; 553000, 3634500; 552900, 3634500; 552900, 3634900; 552800, 3634900; 552800, 3635600; 553100, 3635600; 553100, 3635400; 553300, 3635400; 553300, 3635300; 553400, 3635300; 553400, 3635200; 553300, 3635200; 553300, 3635100; 553200, 3635100; 553200, 3635000; 553300, 3635000; 553300, 3634900; 553400, 3634900; 553400, 3634800; 553600, 3634800; 553600, 3634600; 553700, 3634600; 553700, 3634200; 553600, 3634200; 553600, 3634100; 553500, 3634100; 553500, 3634000; 553400, 3634000; 553400, 3633800; 553300, 3633800; 553300, 3633600; 553200, 3633600; 553200, 3633300; 553300,

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(iv) Note: Map of Unit 1 (Map 2, Subunits 1A, 1B, and 1C) follows:



(7) Unit 2: Palomar Mountain, San Diego County, California. From USGS 1:24,000 quadrangle maps Boucher Hill and Palomar Observatory.

(i) Subunit 2A: lands bounded by the following UTM NAD27 coordinates (E, N): 511300, 3689300; 511400, 3689300; 511400, 3689200; 511600, 3689200; 511600, 3689100; 511700, 3689100; 511700, 3689000; 511800, 3689000; 511800, 3688900; 512300, 3688900; 512300, 3688800; 512400, 3688800; 512400, 3689000; 512900, 3689000; 512900, 3688900;

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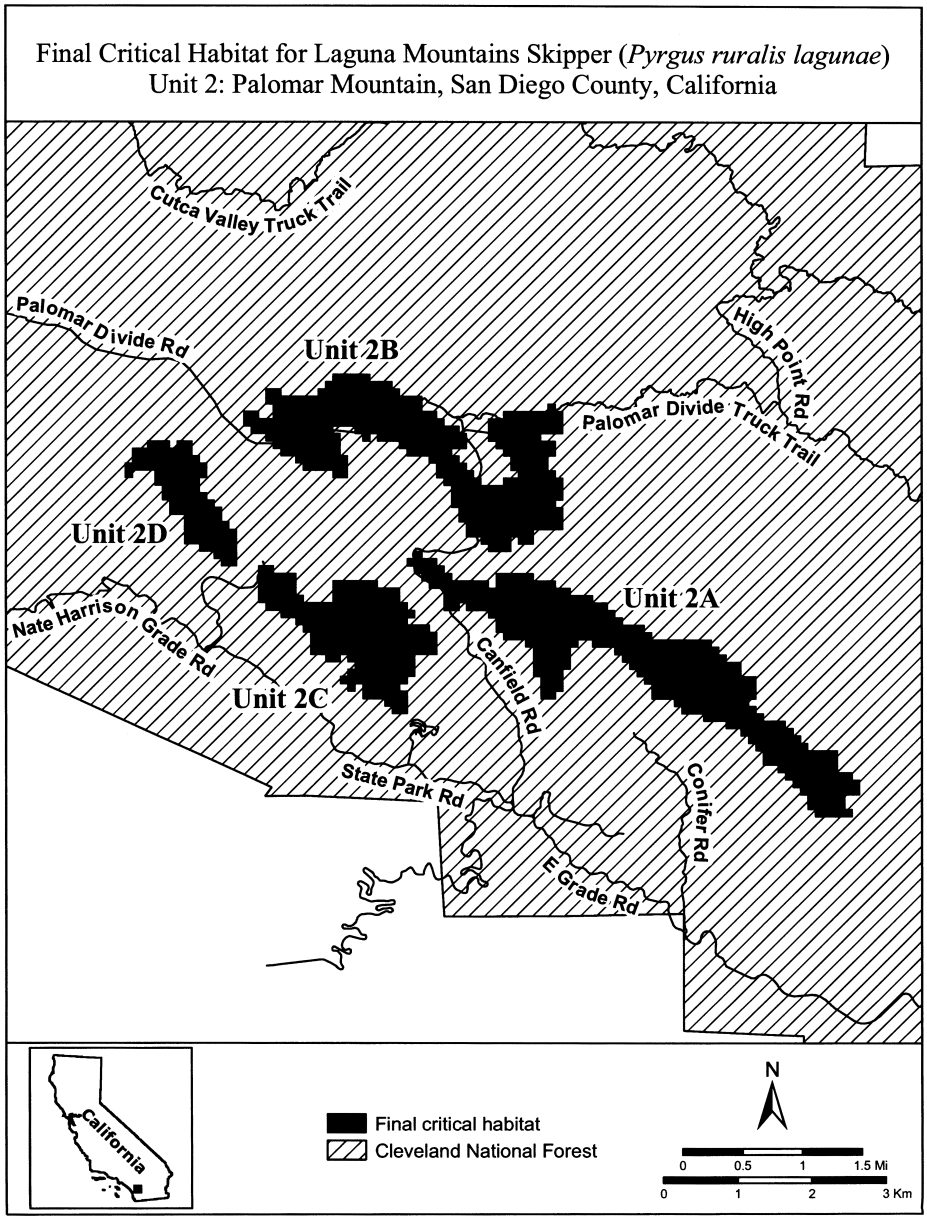
(ii) Subunit 2B: lands bounded by the following UTM NAD27 coordinates (E,N): 513000, 3690900; 513000, 3690800; 513200, 3690800; 513200, 3690600; 513100, 3690600; 513100, 3690400; 513200, 3690400; 513200, 3690300; 513300, 3690300; 513300, 3690000; 513200, 3690000; 513200, 3689900; 513300, 3689900; 513300, 3689600; 512900, 3689600; 512900, 3689400; 512700, 3689400; 512700, 3689500; 512600, 3689500; 512600, 3689300; 512300, 3689300; 512300, 3689400; 512200, 3689400; 512200, 3689500; 512000, 3689500; 512000, 3689700; 511900, 3689700; 511900, 3689900; 511800, 3689900; 511800, 3690200; 511700, 3690200; 511700, 3690300; 511600, 3690300; 511600, 3690500; 511500, 3690500; 511500, 3690600; 511200, 3690600; 511200, 3690700; 511100, 3690700; 511100, 3690800; 510800, 3690800; 510800, 3690900; 510700, 3690900; 510700, 3690800; 510600, 3690800; 510600, 3690900; 510500, 3690900; 510500, 3691000; 510200, 3691000; 510200, 3690900; 510300, 3690900; 510300, 3690600; 510400, 3690600; 510400, 3690300; 510200, 3690300; 510200, 3690400; 509800, 3690400; 509800, 3690500; 509700, 3690500; 509700, 3690600; 509500, 3690600; 509500, 3690700; 509400, 3690700; 509400, 3690800; 509300, 3690800; 509300, 3690900; 509100, 3690900; 509100, 3691000; 509000, 3691000; 509000, 3691200; 509200, 3691200; 509200, 3691100; 509400, 3691100; 509400, 3691300; 509300, 3691300; 509300, 3691500; 509500, 3691500; 509500, 3691400; 510000, 3691400; 510000, 3691500; 510100, 3691500; 510100, 3691600; 510200, 3691600; 510200, 3691700; 510700, 3691700; 510700, 3691600; 511000, 3691600; 511000, 3691500; 511100, 3691500; 511100, 3691400; 511400, 3691400; 511400, 3691200; 511600, 3691200; 511600, 3691100; 511700, 3691100; 511700, 3691000; 511900, 3691000; 511900, 3690900; 512000, 3690900; 512000, 3690700; 511800, 3690700; 511800, 3690600; 511900, 3690600; 511900, 3690500; 512000, 3690500; 512000, 3690400; 512100, 3690400; 512100, 3690300; 512200, 3690300; 512200, 3690200; 512500, 3690200; 512500, 3690300; 512700, 3690300; 512700, 3690400; 512600, 3690400; 512600, 3690600; 512500, 3690600; 512500, 3690700; 512400, 3690700; 512400, 3690800; 512300, 3690800; 512300, 3691100; 512500, 3691100; 512500, 3691200; 513100, 3691200; 513100, 3691300; 513200, 3691300; 513200, 3691200; 513300, 3691200; 513300, 3690900; 513000, 3690900; excluding lands bounded by the following UTM NAD27 coordinates (E,N): 509900, 3691000; 510100, 3691000; 510100, 3690900; 510000, 3690900; 510000, 3690800; 509900, 3690800; 509900, 3691000; and 512800, 3691000; 513000, 3691000; 513000, 3690900; 512800, 3690900; 512800, 3691000.

(iii) Subunit 2C: lands bounded by the following UTM NAD27 coordinates (E, N): 509200, 3689100; 509400, 3689100; 509400, 3689000; 509700, 3689000; 509700, 3688700;

509800, 3688700; 509800, 3688600; 510200, 3688600; 510200, 3688900; 510800, 3688900; 510800, 3688800; 511100, 3688800; 511100, 3688600; 511200, 3688600; 511200, 3688500; 511300, 3688500; 511300, 3688400; 511200, 3688400; 511200, 3688300; 511500, 3688300; 511500, 3688200; 511600, 3688200; 511600, 3687900; 511300, 3687900; 511300, 3687600; 511200, 3687600; 511200, 3687500; 511100, 3687500; 511100, 3687400; 511200, 3687400; 511200, 3687100; 511000, 3687100; 511000, 3687200; 510900, 3687200; 510900, 3687300; 510600, 3687300; 510600, 3687500; 510500, 3687500; 510500, 3687400; 510400, 3687400; 510400, 3687500; 510300, 3687500; 510300, 3687600; 510400, 3687600; 510400, 3687700; 510500, 3687700; 510500, 3687800; 510400, 3687800; 510400, 3687900; 510300, 3687900; 510300, 3687800; 510100, 3687800; 510100, 3687900; 509900, 3687900; 509900, 3688200; 509800, 3688200; 509800, 3688300; 509700, 3688300; 509700, 3688400; 509500, 3688400; 509500, 3688500; 509300, 3688500; 509300, 3688600; 509200, 3688600; 509200, 3689100.

(iv) Subunit 2D: lands bounded by the following UTM NAD27 coordinates (E,N): 507700, 3690800; 508000, 3690800; 508000, 3690700; 508100, 3690700; 508100, 3690800; 508300, 3690800; 508300, 3690600; 508400, 3690600; 508400, 3690500; 508500, 3690500; 508500, 3690300; 508400, 3690300; 508400, 3690100; 508500, 3690100; 508500, 3690000; 508600, 3690000; 508600, 3689900; 508700, 3689900; 508700, 3689700; 508800, 3689700; 508800, 3689600; 508900, 3689600; 508900, 3689100; 508700, 3689100; 508700, 3689200; 508600, 3689200; 508600, 3689300; 508400, 3689300; 508400, 3689400; 508200, 3689400; 508200, 3689800; 508000, 3689800; 508000, 3690000; 507900, 3690000; 507900, 3690200; 507800, 3690200; 507800, 3690400; 507500, 3690400; 507500, 3690300; 507400, 3690300; 507400, 3690500; 507500, 3690500; 507500, 3690700; 507700, 3690700; 507700, 3690800.

(v) Note: Map of Unit 2 (Map 3, Subunits 2A, 2B, 2C, and 2D) follows:



[42 FR 47840, Sept. 22, 1977]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting §17.95, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and on GPO Access.

FINDING AIDS

A list of CFR titles, subtitles, chapters, subchapters and parts and an alphabetical list of agencies publishing in the CFR are included in the CFR Index and Finding Aids volume to the Code of Federal Regulations which is published separately and revised annually.

Table of CFR Titles and Chapters
Alphabetical List of Agencies Appearing in the CFR
List of CFR Sections Affected

Table of CFR Titles and Chapters

(Revised as of October 1, 2008)

Title 1—General Provisions

I Administrative Committee of the Federal Register (Parts 1—49)
II Office of the Federal Register (Parts 50—299)
IV Miscellaneous Agencies (Parts 400—500)

Title 2—Grants and Agreements

SUBTITLE A—OFFICE OF MANAGEMENT AND BUDGET GUIDANCE FOR GRANTS AND AGREEMENTS
I Office of Management and Budget Governmentwide Guidance for Grants and Agreements (Parts 100—199)
II Office of Management and Budget Circulars and Guidance (200—299)
SUBTITLE B—FEDERAL AGENCY REGULATIONS FOR GRANTS AND AGREEMENTS
III Department of Health and Human Services (Parts 300— 399)
VI Department of State (Parts 600—699)
VIII Department of Veterans Affairs (Parts 800—899)
IX Department of Energy (Parts 900—999)
XI Department of Defense (Parts 1100—1199)
XII Department of Transportation (Parts 1200—1299)
XIV Department of the Interior (Parts 1400—1499)
XV Environmental Protection Agency (Parts 1500—1599)
XVIII National Aeronautics and Space Administration (Parts 1880—1899)
XXII Corporation for National and Community Service (Parts 2200—2299)
XXIII Social Security Administration (Parts 2300—2399)
XXIV Housing and Urban Development (Parts 2400—2499)
XXV National Science Foundation (Parts 2500—2599)
XXVI National Archives and Records Administration (Parts 2600—2699)
XXVII Small Business Administration (Parts 2700—2799)
XXVIII Department of Justice (Parts 2800—2899)
XXXI Institute of Museum and Library Services (Parts 3100—3199)
XXXII National Endowment for the Arts (Parts 3200—3299)
XXXIII National Endowment for the Humanities (Parts 3300—3399)
XXXV Export-Import Bank of the United States (Parts 3500—3599)
XXXVII Peace Corps (Parts 3700—3799)

Title 3—The President

Chap.

I Executive Office of the President (Parts 100—199)

Title 4—Accounts

I Government Accountability Office (Parts 1—99)

Title 5—Administrative Personnel

I Office of Personnel Management (Parts 1—1199)
II Merit Systems Protection Board (Parts 1200—1299)
III Office of Management and Budget (Parts 1300—1399)
V The International Organizations Employees Loyalty Board (Parts 1500—1599)
VI Federal Retirement Thrift Investment Board (Parts 1600—1699)
VIII Office of Special Counsel (Parts 1800—1899)
IX Appalachian Regional Commission (Parts 1900—1999)
XI Armed Forces Retirement Home (Parts 2100—2199)
XIV Federal Labor Relations Authority, General Counsel of the Federal Labor Relations Authority and Federal Service Impasses Panel (Parts 2400—2499)
XV Office of Administration, Executive Office of the President (Parts 2500—2599)
XVI Office of Government Ethics (Parts 2600—2699)
XXI Department of the Treasury (Parts 3100—3199)
XXII Federal Deposit Insurance Corporation (Parts 3200—3299)
XXIII Department of Energy (Parts 3300—3399)
XXIV Federal Energy Regulatory Commission (Parts 3400—3499)
XXV Department of the Interior (Parts 3500—3599)
XXVI Department of Defense (Parts 3600— 3699)
XXVIII Department of Justice (Parts 3800—3899)
XXIX Federal Communications Commission (Parts 3900—3999)
XXX Farm Credit System Insurance Corporation (Parts 4000—4099)
XXXI Farm Credit Administration (Parts 4100—4199)
XXXIII Overseas Private Investment Corporation (Parts 4300—4399)
XXXV Office of Personnel Management (Parts 4500—4599)
XL Interstate Commerce Commission (Parts 5000—5099)
XLI Commodity Futures Trading Commission (Parts 5100—5199)
XLII Department of Labor (Parts 5200—5299)
XLIII National Science Foundation (Parts 5300—5399)
XLV Department of Health and Human Services (Parts 5500—5599)
XLVI Postal Rate Commission (Parts 5600—5699)
XLVII Federal Trade Commission (Parts 5700—5799)
XLVIII Nuclear Regulatory Commission (Parts 5800—5899)
L Department of Transportation (Parts 6000—6099)
LII Export-Import Bank of the United States (Parts 6200—6299)
LIII Department of Education (Parts 6300—6399)

Title 5—Administrative Personnel—Continued

Chap.

LIV Environmental Protection Agency (Parts 6400—6499)

LV National Endowment for the Arts (Parts 6500—6599)

LVI National Endowment for the Humanities (Parts 6600—6699)

LVII General Services Administration (Parts 6700—6799)

LVIII Board of Governors of the Federal Reserve System (Parts 6800—6899)

LIX National Aeronautics and Space Administration (Parts 6900—6999)

LX United States Postal Service (Parts 7000—7099)

LXI National Labor Relations Board (Parts 7100—7199)

LXII Equal Employment Opportunity Commission (Parts 7200—7299)

LXIII Inter-American Foundation (Parts 7300—7399)

LXIV Merit Systems Protection Board (Parts 7400—7499)

LXV Department of Housing and Urban Development (Parts 7500—7599)

LXVI National Archives and Records Administration (Parts 7600—7699)

LXVII Institute of Museum and Library Services (Parts 7700—7799)

LXVIII Commission on Civil Rights (Parts 7800—7899)

LXIX Tennessee Valley Authority (Parts 7900—7999)

LXXI Consumer Product Safety Commission (Parts 8100—8199)

LXXIII Department of Agriculture (Parts 8300—8399)

LXXIV Federal Mine Safety and Health Review Commission (Parts 8400—8499)

LXXVI Federal Retirement Thrift Investment Board (Parts 8600—8699)

LXXVII Office of Management and Budget (Parts 8700—8799)

XCVII Department of Homeland Security Human Resources Management System (Department of Homeland Security—Office of Personnel Management) (Parts 9700—9799)

XCIX Department of Defense Human Resources Management and Labor Relations Systems (Department of Defense—Office of Personnel Management) (Parts 9900—9999)

Title 6—Domestic Security

I Department of Homeland Security, Office of the Secretary (Parts 0—99)

X Privacy and Civil Liberties Oversight Board (Parts 1000—1099)

Title 7—Agriculture

SUBTITLE A—OFFICE OF THE SECRETARY OF AGRICULTURE (PARTS 0—26)

SUBTITLE B—REGULATIONS OF THE DEPARTMENT OF AGRICULTURE

I Agricultural Marketing Service (Standards, Inspections, Marketing Practices), Department of Agriculture (Parts 27—209)

II Food and Nutrition Service, Department of Agriculture (Parts 210—299)

Title 7—Agriculture—Continued

Chap.

III Animal and Plant Health Inspection Service, Department of Agriculture (Parts 300—399)

IV Federal Crop Insurance Corporation, Department of Agriculture (Parts 400—499)

V Agricultural Research Service, Department of Agriculture (Parts 500—599)

VI Natural Resources Conservation Service, Department of Agriculture (Parts 600—699)

VII Farm Service Agency, Department of Agriculture (Parts 700—799)

VIII Grain Inspection, Packers and Stockyards Administration (Federal Grain Inspection Service), Department of Agriculture (Parts 800—899)

IX Agricultural Marketing Service (Marketing Agreements and Orders; Fruits, Vegetables, Nuts), Department of Agriculture (Parts 900—999)

X Agricultural Marketing Service (Marketing Agreements and Orders; Milk), Department of Agriculture (Parts 1000—1199)

XI Agricultural Marketing Service (Marketing Agreements and Orders; Miscellaneous Commodities), Department of Agriculture (Parts 1200—1299)

XIV Commodity Credit Corporation, Department of Agriculture (Parts 1400—1499)

XV Foreign Agricultural Service, Department of Agriculture (Parts 1500—1599)

XVI Rural Telephone Bank, Department of Agriculture (Parts 1600—1699)

XVII Rural Utilities Service, Department of Agriculture (Parts 1700—1799)

XVIII Rural Housing Service, Rural Business-Cooperative Service, Rural Utilities Service, and Farm Service Agency, Department of Agriculture (Parts 1800—2099)

XX Local Television Loan Guarantee Board (Parts 2200—2299)

XXVI Office of Inspector General, Department of Agriculture (Parts 2600—2699)

XXVII Office of Information Resources Management, Department of Agriculture (Parts 2700—2799)

XXVIII Office of Operations, Department of Agriculture (Parts 2800—2899)

XXIX Office of Energy Policy and New Uses, Department of Agriculture (Parts 2900—2999)

XXX Office of the Chief Financial Officer, Department of Agriculture (Parts 3000—3099)

XXXI Office of Environmental Quality, Department of Agriculture (Parts 3100—3199)

XXXII Office of Procurement and Property Management, Department of Agriculture (Parts 3200—3299)

XXXIII Office of Transportation, Department of Agriculture (Parts 3300—3399)

XXXIV Cooperative State Research, Education, and Extension Service, Department of Agriculture (Parts 3400—3499)

Title 7—Agriculture—Continued

Chap.

XXXV Rural Housing Service, Department of Agriculture (Parts 3500—3599)

XXXVI National Agricultural Statistics Service, Department of Agriculture (Parts 3600—3699)

XXXVII Economic Research Service, Department of Agriculture (Parts 3700—3799)

XXXVIII World Agricultural Outlook Board, Department of Agriculture (Parts 3800—3899)

XLI [Reserved]

XLII Rural Business-Cooperative Service and Rural Utilities Service, Department of Agriculture (Parts 4200—4299)

Title 8—Aliens and Nationality

I Department of Homeland Security (Immigration and Naturalization) (Parts 1—499)

V Executive Office for Immigration Review, Department of Justice (Parts 1000—1399)

Title 9—Animals and Animal Products

I Animal and Plant Health Inspection Service, Department of Agriculture (Parts 1—199)

II Grain Inspection, Packers and Stockyards Administration (Packers and Stockyards Programs), Department of Agriculture (Parts 200—299)

III Food Safety and Inspection Service, Department of Agriculture (Parts 300—599)

Title 10—Energy

I Nuclear Regulatory Commission (Parts 0—199)

II Department of Energy (Parts 200—699)

III Department of Energy (Parts 700—999)

X Department of Energy (General Provisions) (Parts 1000—1099)

XIII Nuclear Waste Technical Review Board (Parts 1303—1399)

XVII Defense Nuclear Facilities Safety Board (Parts 1700—1799)

XVIII Northeast Interstate Low-Level Radioactive Waste Commission (Parts 1800—1899)

Title 11—Federal Elections

I Federal Election Commission (Parts 1—9099)

Title 12—Banks and Banking

I Comptroller of the Currency, Department of the Treasury (Parts 1—199)

II Federal Reserve System (Parts 200—299)

Title 12—Banks and Banking—Continued

Chap.

III Federal Deposit Insurance Corporation (Parts 300—399)

IV Export-Import Bank of the United States (Parts 400—499)

V Office of Thrift Supervision, Department of the Treasury (Parts 500—599)

VI Farm Credit Administration (Parts 600—699)

VII National Credit Union Administration (Parts 700—799)

VIII Federal Financing Bank (Parts 800—899)

IX Federal Housing Finance Board (Parts 900—999)

XI Federal Financial Institutions Examination Council (Parts 1100—1199)

XII Federal Housing Finance Agency (Parts 1200—1299)

XIV Farm Credit System Insurance Corporation (Parts 1400—1499)

XV Department of the Treasury (Parts 1500—1599)

XVII Office of Federal Housing Enterprise Oversight, Department of Housing and Urban Development (Parts 1700—1799)

XVIII Community Development Financial Institutions Fund, Department of the Treasury (Parts 1800—1899)

Title 13—Business Credit and Assistance

I Small Business Administration (Parts 1—199)

III Economic Development Administration, Department of Commerce (Parts 300—399)

IV Emergency Steel Guarantee Loan Board, Department of Commerce (Parts 400—499)

V Emergency Oil and Gas Guaranteed Loan Board, Department of Commerce (Parts 500—599)

Title 14—Aeronautics and Space

I Federal Aviation Administration, Department of Transportation (Parts 1—199)

II Office of the Secretary, Department of Transportation (Aviation Proceedings) (Parts 200—399)

III Commercial Space Transportation, Federal Aviation Administration, Department of Transportation (Parts 400—499)

V National Aeronautics and Space Administration (Parts 1200—1299)

VI Air Transportation System Stabilization (Parts 1300—1399)

Title 15—Commerce and Foreign Trade

SUBTITLE A—OFFICE OF THE SECRETARY OF COMMERCE (PARTS 0—29)

SUBTITLE B—REGULATIONS RELATING TO COMMERCE AND FOREIGN TRADE

I Bureau of the Census, Department of Commerce (Parts 30—199)

Title 15—Commerce and Foreign Trade—Continued

Chap.

II National Institute of Standards and Technology, Department of Commerce (Parts 200—299)

III International Trade Administration, Department of Commerce (Parts 300—399)

IV Foreign-Trade Zones Board, Department of Commerce (Parts 400—499)

VII Bureau of Industry and Security, Department of Commerce (Parts 700—799)

VIII Bureau of Economic Analysis, Department of Commerce (Parts 800—899)

IX National Oceanic and Atmospheric Administration, Department of Commerce (Parts 900—999)

XI Technology Administration, Department of Commerce (Parts 1100—1199)

XIII East-West Foreign Trade Board (Parts 1300—1399)

XIV Minority Business Development Agency (Parts 1400—1499)

SUBTITLE C—REGULATIONS RELATING TO FOREIGN TRADE AGREEMENTS

XX Office of the United States Trade Representative (Parts 2000—2099)

SUBTITLE D—REGULATIONS RELATING TO TELECOMMUNICATIONS AND INFORMATION

XXIII National Telecommunications and Information Administration, Department of Commerce (Parts 2300—2399)

Title 16—Commercial Practices

I Federal Trade Commission (Parts 0—999)

II Consumer Product Safety Commission (Parts 1000—1799)

Title 17—Commodity and Securities Exchanges

I Commodity Futures Trading Commission (Parts 1—199)

II Securities and Exchange Commission (Parts 200—399)

IV Department of the Treasury (Parts 400—499)

Title 18—Conservation of Power and Water Resources

I Federal Energy Regulatory Commission, Department of Energy (Parts 1—399)

III Delaware River Basin Commission (Parts 400—499)

VI Water Resources Council (Parts 700—799)

VIII Susquehanna River Basin Commission (Parts 800—899)

XIII Tennessee Valley Authority (Parts 1300—1399)

Title 19—Customs Duties

I Bureau of Customs and Border Protection, Department of Homeland Security; Department of the Treasury (Parts 0—199)

Title 19—Customs Duties—Continued

Chap.

II United States International Trade Commission (Parts 200—299)

III International Trade Administration, Department of Commerce (Parts 300—399)

IV Bureau of Immigration and Customs Enforcement, Department of Homeland Security (Parts 400—599)

Title 20—Employees' Benefits

I Office of Workers' Compensation Programs, Department of Labor (Parts 1—199)

II Railroad Retirement Board (Parts 200—399)

III Social Security Administration (Parts 400—499)

IV Employees Compensation Appeals Board, Department of Labor (Parts 500—599)

V Employment and Training Administration, Department of Labor (Parts 600—699)

VI Employment Standards Administration, Department of Labor (Parts 700—799)

VII Benefits Review Board, Department of Labor (Parts 800—899)

VIII Joint Board for the Enrollment of Actuaries (Parts 900—999)

IX Office of the Assistant Secretary for Veterans' Employment and Training Service, Department of Labor (Parts 1000—1099)

Title 21—Food and Drugs

I Food and Drug Administration, Department of Health and Human Services (Parts 1—1299)

II Drug Enforcement Administration, Department of Justice (Parts 1300—1399)

III Office of National Drug Control Policy (Parts 1400—1499)

Title 22—Foreign Relations

I Department of State (Parts 1—199)

II Agency for International Development (Parts 200—299)

III Peace Corps (Parts 300—399)

IV International Joint Commission, United States and Canada (Parts 400—499)

V Broadcasting Board of Governors (Parts 500—599)

VII Overseas Private Investment Corporation (Parts 700—799)

IX Foreign Service Grievance Board (Parts 900—999)

X Inter-American Foundation (Parts 1000—1099)

XI International Boundary and Water Commission, United States and Mexico, United States Section (Parts 1100—1199)

XII United States International Development Cooperation Agency (Parts 1200—1299)

XIII Millenium Challenge Corporation (Parts 1300—1399)

Title 22—Foreign Relations—Continued

Chap.

XIV Foreign Service Labor Relations Board; Federal Labor Relations Authority; General Counsel of the Federal Labor Relations Authority; and the Foreign Service Impasse Disputes Panel (Parts 1400—1499)

XV African Development Foundation (Parts 1500—1599)

XVI Japan-United States Friendship Commission (Parts 1600—1699)

XVII United States Institute of Peace (Parts 1700—1799)

Title 23—Highways

I Federal Highway Administration, Department of Transportation (Parts 1—999)

II National Highway Traffic Safety Administration and Federal Highway Administration, Department of Transportation (Parts 1200—1299)

III National Highway Traffic Safety Administration, Department of Transportation (Parts 1300—1399)

Title 24—Housing and Urban Development

SUBTITLE A—OFFICE OF THE SECRETARY, DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT (PARTS 0—99)

SUBTITLE B—REGULATIONS RELATING TO HOUSING AND URBAN DEVELOPMENT

I Office of Assistant Secretary for Equal Opportunity, Department of Housing and Urban Development (Parts 100—199)

II Office of Assistant Secretary for Housing-Federal HousingCommissioner, Department of Housing and Urban Development (Parts 200—299)

III Government National Mortgage Association, Department of Housing and Urban Development (Parts 300—399)

IV Office of Housing and Office of Multifamily Housing Assistance Restructuring, Department of Housing and Urban Development (Parts 400—499)

V Office of Assistant Secretary for Community Planning and Development, Department of Housing and Urban Development (Parts 500—599)

VI Office of Assistant Secretary for Community Planning and Development, Department of Housing and Urban Development (Parts 600—699) [Reserved]

VII Office of the Secretary, Department of Housing and Urban Development (Housing Assistance Programs and Public and Indian Housing Programs) (Parts 700—799)

VIII Office of the Assistant Secretary for Housing—Federal Housing Commissioner, Department of Housing and Urban Development (Section 8 Housing Assistance Programs, Section 202 Direct Loan Program, Section 202 Supportive Housing for the Elderly Program and Section 811 Supportive Housing for Persons With Disabilities Program) (Parts 800—899)

IX Office of Assistant Secretary for Public and Indian Housing, Department of Housing and Urban Development (Parts 900—1699)

Title 24—Housing and Urban Development—Continued

Chap.

X Office of Assistant Secretary for Housing—Federal Housing Commissioner, Department of Housing and Urban Development (Interstate Land Sales Registration Program) (Parts 1700—1799)

XII Office of Inspector General, Department of Housing and Urban Development (Parts 2000—2099)

XX Office of Assistant Secretary for Housing—Federal Housing Commissioner, Department of Housing and Urban Development (Parts 3200—3899)

XXV Neighborhood Reinvestment Corporation (Parts 4100—4199)

Title 25—Indians

I Bureau of Indian Affairs, Department of the Interior (Parts 1—299)

II Indian Arts and Crafts Board, Department of the Interior (Parts 300—399)

III National Indian Gaming Commission, Department of the Interior (Parts 500—599)

IV Office of Navajo and Hopi Indian Relocation (Parts 700—799)

V Bureau of Indian Affairs, Department of the Interior, and Indian Health Service, Department of Health and Human Services (Part 900)

VI Office of the Assistant Secretary-Indian Affairs, Department of the Interior (Parts 1000—1199)

VII Office of the Special Trustee for American Indians, Department of the Interior (Parts 1200—1299)

Title 26—Internal Revenue

I Internal Revenue Service, Department of the Treasury (Parts 1—899)

Title 27—Alcohol, Tobacco Products and Firearms

I Alcohol and Tobacco Tax and Trade Bureau, Department of the Treasury (Parts 1—399)

II Bureau of Alcohol, Tobacco, Firearms, and Explosives, Department of Justice (Parts 400—699)

Title 28—Judicial Administration

I Department of Justice (Parts 0—299)

III Federal Prison Industries, Inc., Department of Justice (Parts 300—399)

V Bureau of Prisons, Department of Justice (Parts 500—599)

VI Offices of Independent Counsel, Department of Justice (Parts 600—699)

VII Office of Independent Counsel (Parts 700—799)

Title 28—Judicial Administration—Continued

Chap.

VIII Court Services and Offender Supervision Agency for the District of Columbia (Parts 800—899)

IX National Crime Prevention and Privacy Compact Council (Parts 900—999)

XI Department of Justice and Department of State (Parts 1100—1199)

Title 29—Labor

SUBTITLE A—OFFICE OF THE SECRETARY OF LABOR (PARTS 0—99)

SUBTITLE B—REGULATIONS RELATING TO LABOR

I National Labor Relations Board (Parts 100—199)

II Office of Labor-Management Standards, Department of Labor (Parts 200—299)

III National Railroad Adjustment Board (Parts 300—399)

IV Office of Labor-Management Standards, Department of Labor (Parts 400—499)

V Wage and Hour Division, Department of Labor (Parts 500—899)

IX Construction Industry Collective Bargaining Commission (Parts 900—999)

X National Mediation Board (Parts 1200—1299)

XII Federal Mediation and Conciliation Service (Parts 1400—1499)

XIV Equal Employment Opportunity Commission (Parts 1600—1699)

XVII Occupational Safety and Health Administration, Department of Labor (Parts 1900—1999)

XX Occupational Safety and Health Review Commission (Parts 2200—2499)

XXV Employee Benefits Security Administration, Department of Labor (Parts 2500—2599)

XXVII Federal Mine Safety and Health Review Commission (Parts 2700—2799)

XL Pension Benefit Guaranty Corporation (Parts 4000—4999)

Title 30—Mineral Resources

I Mine Safety and Health Administration, Department of Labor (Parts 1—199)

II Minerals Management Service, Department of the Interior (Parts 200—299)

III Board of Surface Mining and Reclamation Appeals, Department of the Interior (Parts 300—399)

IV Geological Survey, Department of the Interior (Parts 400—499)

VII Office of Surface Mining Reclamation and Enforcement, Department of the Interior (Parts 700—999)

Title 31—Money and Finance: Treasury

SUBTITLE A—OFFICE OF THE SECRETARY OF THE TREASURY (PARTS 0—50)

Title 31—Money and Finance: Treasury—Continued

Chap.

SUBTITLE B—REGULATIONS RELATING TO MONEY AND FINANCE

I Monetary Offices, Department of the Treasury (Parts 51—199)

II Fiscal Service, Department of the Treasury (Parts 200—399)

IV Secret Service, Department of the Treasury (Parts 400—499)

V Office of Foreign Assets Control, Department of the Treasury (Parts 500—599)

VI Bureau of Engraving and Printing, Department of the Treasury (Parts 600—699)

VII Federal Law Enforcement Training Center, Department of the Treasury (Parts 700—799)

VIII Office of International Investment, Department of the Treasury (Parts 800—899)

IX Federal Claims Collection Standards (Department of the Treasury—Department of Justice) (Parts 900—999)

Title 32—National Defense

SUBTITLE A—DEPARTMENT OF DEFENSE

I Office of the Secretary of Defense (Parts 1—399)

V Department of the Army (Parts 400—699)

VI Department of the Navy (Parts 700—799)

VII Department of the Air Force (Parts 800—1099)

SUBTITLE B—OTHER REGULATIONS RELATING TO NATIONAL DEFENSE

XII Defense Logistics Agency (Parts 1200—1299)

XVI Selective Service System (Parts 1600—1699)

XVII Office of the Director of National Intelligence (Parts 1700—1799)

XVIII National Counterintelligence Center (Parts 1800—1899)

XIX Central Intelligence Agency (Parts 1900—1999)

XX Information Security Oversight Office, National Archives and Records Administration (Parts 2000—2099)

XXI National Security Council (Parts 2100—2199)

XXIV Office of Science and Technology Policy (Parts 2400—2499)

XXVII Office for Micronesian Status Negotiations (Parts 2700—2799)

XXVIII Office of the Vice President of the United States (Parts 2800—2899)

Title 33—Navigation and Navigable Waters

I Coast Guard, Department of Homeland Security (Parts 1—199)

II Corps of Engineers, Department of the Army (Parts 200—399)

IV Saint Lawrence Seaway Development Corporation, Department of Transportation (Parts 400—499)

Title 34—Education

SUBTITLE A—OFFICE OF THE SECRETARY, DEPARTMENT OF EDUCATION (PARTS 1—99)

Title 34—Education—Continued

Chap.

SUBTITLE B—REGULATIONS OF THE OFFICES OF THE DEPARTMENT OF EDUCATION

I Office for Civil Rights, Department of Education (Parts 100—199)

II Office of Elementary and Secondary Education, Department of Education (Parts 200—299)

III Office of Special Education and Rehabilitative Services, Department of Education (Parts 300—399)

IV Office of Vocational and Adult Education, Department of Education (Parts 400—499)

V Office of Bilingual Education and Minority Languages Affairs, Department of Education (Parts 500—599)

VI Office of Postsecondary Education, Department of Education (Parts 600—699)

VII Office of Educational Research and Improvmeent, Department of Education [Reserved]

XI National Institute for Literacy (Parts 1100—1199)

SUBTITLE C—REGULATIONS RELATING TO EDUCATION

XII National Council on Disability (Parts 1200—1299)

Title 35 [Reserved]

Title 36—Parks, Forests, and Public Property

I National Park Service, Department of the Interior (Parts 1—199)

II Forest Service, Department of Agriculture (Parts 200—299)

III Corps of Engineers, Department of the Army (Parts 300—399)

IV American Battle Monuments Commission (Parts 400—499)

V Smithsonian Institution (Parts 500—599)

VI [Reserved]

VII Library of Congress (Parts 700—799)

VIII Advisory Council on Historic Preservation (Parts 800—899)

IX Pennsylvania Avenue Development Corporation (Parts 900—999)

X Presidio Trust (Parts 1000—1099)

XI Architectural and Transportation Barriers Compliance Board (Parts 1100—1199)

XII National Archives and Records Administration (Parts 1200—1299)

XV Oklahoma City National Memorial Trust (Parts 1500—1599)

XVI Morris K. Udall Scholarship and Excellence in National Environmental Policy Foundation (Parts 1600—1699)

Title 37—Patents, Trademarks, and Copyrights

I United States Patent and Trademark Office, Department of Commerce (Parts 1—199)

II Copyright Office, Library of Congress (Parts 200—299)

III Copyright Royalty Board, Library of Congress (Parts 301—399)

Title 37—Patents, Trademarks, and Copyrights—Continued

Chap.

IV Assistant Secretary for Technology Policy, Department of Commerce (Parts 400—499)

V Under Secretary for Technology, Department of Commerce (Parts 500—599)

Title 38—Pensions, Bonuses, and Veterans' Relief

I Department of Veterans Affairs (Parts 0—99)

Title 39—Postal Service

I United States Postal Service (Parts 1—999)

III Postal Regulatory Commission (Parts 3000—3099)

Title 40—Protection of Environment

I Environmental Protection Agency (Parts 1—1099)

IV Environmental Protection Agency and Department of Justice (Parts 1400—1499)

V Council on Environmental Quality (Parts 1500—1599)

VI Chemical Safety and Hazard Investigation Board (Parts 1600—1699)

VII Environmental Protection Agency and Department of Defense; Uniform National Discharge Standards for Vessels of the Armed Forces (Parts 1700—1799)

Title 41—Public Contracts and Property Management

SUBTITLE B—OTHER PROVISIONS RELATING TO PUBLIC CONTRACTS

50 Public Contracts, Department of Labor (Parts 50–1—50–999)

51 Committee for Purchase From People Who Are Blind or Severely Disabled (Parts 51–1—51–99)

60 Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor (Parts 60–1—60–999)

61 Office of the Assistant Secretary for Veterans' Employment and Training Service, Department of Labor (Parts 61–1—61–999)

Chapters 62—100 [Reserved]

SUBTITLE C—FEDERAL PROPERTY MANAGEMENT REGULATIONS SYSTEM

101 Federal Property Management Regulations (Parts 101–1—101–99)

102 Federal Management Regulation (Parts 102–1—102–299)

Chapters 103—104 [Reserved]

105 General Services Administration (Parts 105–1—105–999)

109 Department of Energy Property Management Regulations (Parts 109–1—109–99)

114 Department of the Interior (Parts 114–1—114–99)

115 Environmental Protection Agency (Parts 115–1—115–99)

128 Department of Justice (Parts 128–1—128–99)

Title 41—Public Contracts and Property Management—Continued

Chap.

Chapters 129—200 [Reserved]

SUBTITLE D—OTHER PROVISIONS RELATING TO PROPERTY MANAGEMENT [RESERVED]

SUBTITLE E—FEDERAL INFORMATION RESOURCES MANAGEMENT REGULATIONS SYSTEM [RESERVED]

SUBTITLE F—FEDERAL TRAVEL REGULATION SYSTEM

300 General (Parts 300–1—300–99)

301 Temporary Duty (TDY) Travel Allowances (Parts 301–1—301–99)

302 Relocation Allowances (Parts 302–1—302–99)

303 Payment of Expenses Connected with the Death of Certain Employees (Part 303–1—303–99)

304 Payment of Travel Expenses from a Non-Federal Source (Parts 304–1—304–99)

Title 42—Public Health

I Public Health Service, Department of Health and Human Services (Parts 1—199)

IV Centers for Medicare & Medicaid Services, Department of Health and Human Services (Parts 400—499)

V Office of Inspector General-Health Care, Department of Health and Human Services (Parts 1000—1999)

Title 43—Public Lands: Interior

SUBTITLE A—OFFICE OF THE SECRETARY OF THE INTERIOR (PARTS 1—199)

SUBTITLE B—REGULATIONS RELATING TO PUBLIC LANDS

I Bureau of Reclamation, Department of the Interior (Parts 200—499)

II Bureau of Land Management, Department of the Interior (Parts 1000—9999)

III Utah Reclamation Mitigation and Conservation Commission (Parts 10000—10010)

Title 44—Emergency Management and Assistance

I Federal Emergency Management Agency, Department of Homeland Security (Parts 0—399)

IV Department of Commerce and Department of Transportation (Parts 400—499)

Title 45—Public Welfare

SUBTITLE A—DEPARTMENT OF HEALTH AND HUMAN SERVICES (PARTS 1—199)

SUBTITLE B—REGULATIONS RELATING TO PUBLIC WELFARE

Title 45—Public Welfare—Continued

Chap.

II Office of Family Assistance (Assistance Programs), Administration for Children and Families, Department of Health and Human Services (Parts 200—299)

III Office of Child Support Enforcement (Child Support Enforcement Program), Administration for Children and Families, Department of Health and Human Services (Parts 300—399)

IV Office of Refugee Resettlement, Administration for Children and Families, Department of Health and Human Services (Parts 400—499)

V Foreign Claims Settlement Commission of the United States, Department of Justice (Parts 500—599)

VI National Science Foundation (Parts 600—699)

VII Commission on Civil Rights (Parts 700—799)

VIII Office of Personnel Management (Parts 800—899) [Reserved]

X Office of Community Services, Administration for Children and Families, Department of Health and Human Services (Parts 1000—1099)

XI National Foundation on the Arts and the Humanities (Parts 1100—1199)

XII Corporation for National and Community Service (Parts 1200—1299)

XIII Office of Human Development Services, Department of Health and Human Services (Parts 1300—1399)

XVI Legal Services Corporation (Parts 1600—1699)

XVII National Commission on Libraries and Information Science (Parts 1700—1799)

XVIII Harry S. Truman Scholarship Foundation (Parts 1800—1899)

XXI Commission on Fine Arts (Parts 2100—2199)

XXIII Arctic Research Commission (Part 2301)

XXIV James Madison Memorial Fellowship Foundation (Parts 2400—2499)

XXV Corporation for National and Community Service (Parts 2500—2599)

Title 46—Shipping

I Coast Guard, Department of Homeland Security (Parts 1—199)

II Maritime Administration, Department of Transportation (Parts 200—399)

III Coast Guard (Great Lakes Pilotage), Department of Homeland Security (Parts 400—499)

IV Federal Maritime Commission (Parts 500—599)

Title 47—Telecommunication

I Federal Communications Commission (Parts 0—199)

II Office of Science and Technology Policy and National Security Council (Parts 200—299)

Title 47—Telecommunication—Continued

Chap.

III National Telecommunications and Information Administration, Department of Commerce (Parts 300—399)

Title 48—Federal Acquisition Regulations System

1 Federal Acquisition Regulation (Parts 1—99)

2 Defense Acquisition Regulations System, Department of Defense (Parts 200—299)

3 Department of Health and Human Services (Parts 300—399)

4 Department of Agriculture (Parts 400—499)

5 General Services Administration (Parts 500—599)

6 Department of State (Parts 600—699)

7 Agency for International Development (Parts 700—799)

8 Department of Veterans Affairs (Parts 800—899)

9 Department of Energy (Parts 900—999)

10 Department of the Treasury (Parts 1000—1099)

12 Department of Transportation (Parts 1200—1299)

13 Department of Commerce (Parts 1300—1399)

14 Department of the Interior (Parts 1400—1499)

15 Environmental Protection Agency (Parts 1500—1599)

16 Office of Personnel Management, Federal Employees Health Benefits Acquisition Regulation (Parts 1600—1699)

17 Office of Personnel Management (Parts 1700—1799)

18 National Aeronautics and Space Administration (Parts 1800—1899)

19 Broadcasting Board of Governors (Parts 1900—1999)

20 Nuclear Regulatory Commission (Parts 2000—2099)

21 Office of Personnel Management, Federal Employees Group Life Insurance Federal Acquisition Regulation (Parts 2100—2199)

23 Social Security Administration (Parts 2300—2399)

24 Department of Housing and Urban Development (Parts 2400—2499)

25 National Science Foundation (Parts 2500—2599)

28 Department of Justice (Parts 2800—2899)

29 Department of Labor (Parts 2900—2999)

30 Department of Homeland Security, Homeland Security Acquisition Regulation (HSAR) (Parts 3000—3099)

34 Department of Education Acquisition Regulation (Parts 3400—3499)

51 Department of the Army Acquisition Regulations (Parts 5100—5199)

52 Department of the Navy Acquisition Regulations (Parts 5200—5299)

53 Department of the Air Force Federal Acquisition Regulation Supplement [Reserved]

54 Defense Logistics Agency, Department of Defense (Parts 5400—5499)

Title 48—Federal Acquisition Regulations System—Continued

Chap.

57 African Development Foundation (Parts 5700—5799)

61 General Services Administration Board of Contract Appeals (Parts 6100—6199)

63 Department of Transportation Board of Contract Appeals (Parts 6300—6399)

99 Cost Accounting Standards Board, Office of Federal Procurement Policy, Office of Management and Budget (Parts 9900—9999)

Title 49—Transportation

SUBTITLE A—OFFICE OF THE SECRETARY OF TRANSPORTATION (PARTS 1—99)

SUBTITLE B—OTHER REGULATIONS RELATING TO TRANSPORTATION

I Pipeline and Hazardous Materials Safety Administration, Department of Transportation (Parts 100—199)

II Federal Railroad Administration, Department of Transportation (Parts 200—299)

III Federal Motor Carrier Safety Administration, Department of Transportation (Parts 300—399)

IV Coast Guard, Department of Homeland Security (Parts 400—499)

V National Highway Traffic Safety Administration, Department of Transportation (Parts 500—599)

VI Federal Transit Administration, Department of Transportation (Parts 600—699)

VII National Railroad Passenger Corporation (AMTRAK) (Parts 700—799)

VIII National Transportation Safety Board (Parts 800—999)

X Surface Transportation Board, Department of Transportation (Parts 1000—1399)

XI Research and Innovative Technology Administration, Department of Transportation [Reserved]

XII Transportation Security Administration, Department of Homeland Security (Parts 1500—1699)

Title 50—Wildlife and Fisheries

I United States Fish and Wildlife Service, Department of the Interior (Parts 1—199)

II National Marine Fisheries Service, National Oceanic and Atmospheric Administration, Department of Commerce (Parts 200—299)

III International Fishing and Related Activities (Parts 300—399)

IV Joint Regulations (United States Fish and Wildlife Service, Department of the Interior and National Marine Fisheries Service, National Oceanic and Atmospheric Administration, Department of Commerce); Endangered Species Committee Regulations (Parts 400—499)

V Marine Mammal Commission (Parts 500—599)

Title 50—Wildlife and Fisheries—Continued

Chap.

VI Fishery Conservation and Management, National Oceanic and Atmospheric Administration, Department of Commerce (Parts 600—699)

CFR Index and Finding Aids

Subject/Agency Index
List of Agency Prepared Indexes
Parallel Tables of Statutory Authorities and Rules
List of CFR Titles, Chapters, Subchapters, and Parts
Alphabetical List of Agencies Appearing in the CFR

Alphabetical List of Agencies Appearing in the CFR

(Revised as of October 1, 2008)

Agency	CFR Title, Subtitle or Chapter
Administrative Committee of the Federal Register	1, I
Advanced Research Projects Agency	32, I
Advisory Council on Historic Preservation	36, VIII
African Development Foundation	22, XV
Federal Acquisition Regulation	48, 57
Agency for International Development	22, II
Federal Acquisition Regulation	48, 7
Agricultural Marketing Service	7, I, IX, X, XI
Agricultural Research Service	7, V
Agriculture Department	5, LXXIII
Agricultural Marketing Service	7, I, IX, X, XI
Agricultural Research Service	7, V
Animal and Plant Health Inspection Service	7, III; 9, I
Chief Financial Officer, Office of	7, XXX
Commodity Credit Corporation	7, XIV
Cooperative State Research, Education, and Extension Service	7, XXXIV
Economic Research Service	7, XXXVII
Energy, Office of	2, IX; 7, XXIX
Environmental Quality, Office of	7, XXXI
Farm Service Agency	7, VII, XVIII
Federal Acquisition Regulation	48, 4
Federal Crop Insurance Corporation	7, IV
Food and Nutrition Service	7, II
Food Safety and Inspection Service	9, III
Foreign Agricultural Service	7, XV
Forest Service	36, II
Grain Inspection, Packers and Stockyards Administration	7, VIII; 9, II
Information Resources Management, Office of	7, XXVII
Inspector General, Office of	7, XXVI
National Agricultural Library	7, XLI
National Agricultural Statistics Service	7, XXXVI
Natural Resources Conservation Service	7, VI
Operations, Office of	7, XXVIII
Procurement and Property Management, Office of	7, XXXII
Rural Business-Cooperative Service	7, XVIII, XLII
Rural Development Administration	7, XLII
Rural Housing Service	7, XVIII, XXXV
Rural Telephone Bank	7, XVI
Rural Utilities Service	7, XVII, XVIII, XLII
Secretary of Agriculture, Office of	7, Subtitle A
Transportation, Office of	7, XXXIII
World Agricultural Outlook Board	7, XXXVIII
Air Force Department	32, VII
Federal Acquisition Regulation Supplement	48, 53
Air Transportation Stabilization Board	14, VI
Alcohol and Tobacco Tax and Trade Bureau	27, I
Alcohol, Tobacco, Firearms, and Explosives, Bureau of	27, II
AMTRAK	49, VII
American Battle Monuments Commission	36, IV
American Indians, Office of the Special Trustee	25, VII
Animal and Plant Health Inspection Service	7, III; 9, I
Appalachian Regional Commission	5, IX

Agency	CFR Title, Subtitle or Chapter
Architectural and Transportation Barriers Compliance Board	36, XI
Arctic Research Commission	45, XXIII
Armed Forces Retirement Home	5, XI
Army Department	32, V
Engineers, Corps of	33, II; 36, III
Federal Acquisition Regulation	48, 51
Benefits Review Board	20, VII
Bilingual Education and Minority Languages Affairs, Office of	34, V
Blind or Severely Disabled, Committee for Purchase From People Who Are	41, 51
Broadcasting Board of Governors	22, V
Federal Acquisition Regulation	48, 19
Census Bureau	15, I
Centers for Medicare & Medicaid Services	42, IV
Central Intelligence Agency	32, XIX
Chief Financial Officer, Office of	7, XXX
Child Support Enforcement, Office of	45, III
Children and Families, Administration for	45, II, III, IV, X
Civil Rights, Commission on	5, LXVIII; 45, VII
Civil Rights, Office for	34, I
Coast Guard	33, I; 46, I; 49, IV
Coast Guard (Great Lakes Pilotage)	46, III
Commerce Department	44, IV
Census Bureau	15, I
Economic Affairs, Under Secretary	37, V
Economic Analysis, Bureau of	15, VIII
Economic Development Administration	13, III
Emergency Management and Assistance	44, IV
Federal Acquisition Regulation	48, 13
Fishery Conservation and Management	50, VI
Foreign-Trade Zones Board	15, IV
Industry and Security, Bureau of	15, VII
International Trade Administration	15, III; 19, III
National Institute of Standards and Technology	15, II
National Marine Fisheries Service	50, II, IV, VI
National Oceanic and Atmospheric Administration	15, IX; 50, II, III, IV, VI
National Telecommunications and Information Administration	15, XXIII; 47, III
National Weather Service	15, IX
Patent and Trademark Office, United States	37, I
Productivity, Technology and Innovation, Assistant Secretary for	37, IV
Secretary of Commerce, Office of	15, Subtitle A
Technology, Under Secretary for	37, V
Technology Administration	15, XI
Technology Policy, Assistant Secretary for	37, IV
Commercial Space Transportation	14, III
Commodity Credit Corporation	7, XIV
Commodity Futures Trading Commission	5, XLI; 17, I
Community Planning and Development, Office of Assistant Secretary for	24, V, VI
Community Services, Office of	45, X
Comptroller of the Currency	12, I
Construction Industry Collective Bargaining Commission	29, IX
Consumer Product Safety Commission	5, LXXI; 16, II
Cooperative State Research, Education, and Extension Service	7, XXXIV
Copyright Office	37, II
Copyright Royalty Board	37, III
Corporation for National and Community Service	2, XXII; 45, XII, XXV
Cost Accounting Standards Board	48, 99
Council on Environmental Quality	40, V
Court Services and Offender Supervision Agency for the District of Columbia	28, VIII
Customs and Border Protection Bureau	19, I
Defense Contract Audit Agency	32, I
Defense Department	5, XXVI; 32, Subtitle A; 40, VII

Agency	CFR Title, Subtitle or Chapter
Advanced Research Projects Agency	32, I
Air Force Department	32, VII
Army Department	32, V; 33, II; 36, III, 48, 51
Defense Acquisition Regulations System	48, 2
Defense Intelligence Agency	32, I
Defense Logistics Agency	32, I, XII; 48, 54
Engineers, Corps of	33, II; 36, III
National Imagery and Mapping Agency	32, I
Navy Department	32, VI; 48, 52
Secretary of Defense, Office of	2, XI; 32, I
Defense Contract Audit Agency	32, I
Defense Intelligence Agency	32, I
Defense Logistics Agency	32, XII; 48, 54
Defense Nuclear Facilities Safety Board	10, XVII
Delaware River Basin Commission	18, III
District of Columbia, Court Services and Offender Supervision Agency for the	28, VIII
Drug Enforcement Administration	21, II
East-West Foreign Trade Board	15, XIII
Economic Affairs, Under Secretary	37, V
Economic Analysis, Bureau of	15, VIII
Economic Development Administration	13, III
Economic Research Service	7, XXXVII
Education, Department of	5, LIII
Bilingual Education and Minority Languages Affairs, Office of	34, V
Civil Rights, Office for	34, I
Educational Research and Improvement, Office of	34, VII
Elementary and Secondary Education, Office of	34, II
Federal Acquisition Regulation	48, 34
Postsecondary Education, Office of	34, VI
Secretary of Education, Office of	34, Subtitle A
Special Education and Rehabilitative Services, Office of	34, III
Vocational and Adult Education, Office of	34, IV
Educational Research and Improvement, Office of	34, VII
Elementary and Secondary Education, Office of	34, II
Emergency Oil and Gas Guaranteed Loan Board	13, V
Emergency Steel Guarantee Loan Board	13, IV
Employee Benefits Security Administration	29, XXV
Employees' Compensation Appeals Board	20, IV
Employees Loyalty Board	5, V
Employment and Training Administration	20, V
Employment Standards Administration	20, VI
Endangered Species Committee	50, IV
Energy, Department of	5, XXIII; 10, II, III, X
Federal Acquisition Regulation	48, 9
Federal Energy Regulatory Commission	5, XXIV; 18, I
Property Management Regulations	41, 109
Energy, Office of	7, XXIX
Engineers, Corps of	33, II; 36, III
Engraving and Printing, Bureau of	31, VI
Environmental Protection Agency	2, XV; 5, LIV; 40, I, IV, VII
Federal Acquisition Regulation	48, 15
Property Management Regulations	41, 115
Environmental Quality, Office of	7, XXXI
Equal Employment Opportunity Commission	5, LXII; 29, XIV
Equal Opportunity, Office of Assistant Secretary for	24, I
Executive Office of the President	3, I
Administration, Office of	5, XV
Environmental Quality, Council on	40, V
Management and Budget, Office of	5, III, LXXVII; 14, VI; 48, 99
National Drug Control Policy, Office of	21, III
National Security Council	32, XXI; 47, 2
Presidential Documents	3

Agency	CFR Title, Subtitle or Chapter
Science and Technology Policy, Office of	32, XXIV; 47, II
Trade Representative, Office of the United States	15, XX
Export-Import Bank of the United States	2, XXXV; 5, LII; 12, IV
Family Assistance, Office of	45, II
Farm Credit Administration	5, XXXI; 12, VI
Farm Credit System Insurance Corporation	5, XXX; 12, XIV
Farm Service Agency	7, VII, XVIII
Federal Acquisition Regulation	48, 1
Federal Aviation Administration	14, I
Commercial Space Transportation	14, III
Federal Claims Collection Standards	31, IX
Federal Communications Commission	5, XXIX; 47, I
Federal Contract Compliance Programs, Office of	41, 60
Federal Crop Insurance Corporation	7, IV
Federal Deposit Insurance Corporation	5, XXII; 12, III
Federal Election Commission	11, I
Federal Emergency Management Agency	44, I
Federal Employees Group Life Insurance Federal Acquisition Regulation	48, 21
Federal Employees Health Benefits Acquisition Regulation	48, 16
Federal Energy Regulatory Commission	5, XXIV; 18, I
Federal Financial Institutions Examination Council	12, XI
Federal Financing Bank	12, VIII
Federal Highway Administration	23, I, II
Federal Home Loan Mortgage Corporation	1, IV
Federal Housing Enterprise Oversight Office	12, XVII
Federal Housing Finance Agency	12, XII
Federal Housing Finance Board	12, IX
Federal Labor Relations Authority, and General Counsel of the Federal Labor Relations Authority	5, XIV; 22, XIV
Federal Law Enforcement Training Center	31, VII
Federal Management Regulation	41, 102
Federal Maritime Commission	46, IV
Federal Mediation and Conciliation Service	29, XII
Federal Mine Safety and Health Review Commission	5, LXXIV; 29, XXVII
Federal Motor Carrier Safety Administration	49, III
Federal Prison Industries, Inc.	28, III
Federal Procurement Policy Office	48, 99
Federal Property Management Regulations	41, 101
Federal Railroad Administration	49, II
Federal Register, Administrative Committee of	1, I
Federal Register, Office of	1, II
Federal Reserve System	12, II
Board of Governors	5, LVIII
Federal Retirement Thrift Investment Board	5, VI, LXXVI
Federal Service Impasses Panel	5, XIV
Federal Trade Commission	5, XLVII; 16, I
Federal Transit Administration	49, VI
Federal Travel Regulation System	41, Subtitle F
Fine Arts, Commission on	45, XXI
Fiscal Service	31, II
Fish and Wildlife Service, United States	50, I, IV
Fishery Conservation and Management	50, VI
Food and Drug Administration	21, I
Food and Nutrition Service	7, II
Food Safety and Inspection Service	9, III
Foreign Agricultural Service	7, XV
Foreign Assets Control, Office of	31, V
Foreign Claims Settlement Commission of the United States	45, V
Foreign Service Grievance Board	22, IX
Foreign Service Impasse Disputes Panel	22, XIV
Foreign Service Labor Relations Board	22, XIV
Foreign-Trade Zones Board	15, IV
Forest Service	36, II
General Services Administration	5, LVII; 41, 105
Contract Appeals, Board of	48, 61
Federal Acquisition Regulation	48, 5

Agency	CFR Title, Subtitle or Chapter
Federal Management Regulation	41, 102
Federal Property Management Regulations	41, 101
Federal Travel Regulation System	41, Subtitle F
General	41, 300
Payment From a Non-Federal Source for Travel Expenses	41, 304
Payment of Expenses Connected With the Death of Certain Employees	41, 303
Relocation Allowances	41, 302
Temporary Duty (TDY) Travel Allowances	41, 301
Geological Survey	30, IV
Government Accountability Office	4, I
Government Ethics, Office of	5, XVI
Government National Mortgage Association	24, III
Grain Inspection, Packers and Stockyards Administration	7, VIII; 9, II
Harry S. Truman Scholarship Foundation	45, XVIII
Health and Human Services, Department of	2, III; 5, XLV; 45, Subtitle A,
Centers for Medicare & Medicaid Services	42, IV
Child Support Enforcement, Office of	45, III
Children and Families, Administration for	45, II, III, IV, X
Community Services, Office of	45, X
Family Assistance, Office of	45, II
Federal Acquisition Regulation	48, 3
Food and Drug Administration	21, I
Human Development Services, Office of	45, XIII
Indian Health Service	25, V
Inspector General (Health Care), Office of	42, V
Public Health Service	42, I
Refugee Resettlement, Office of	45, IV
Homeland Security, Department of	6, I
Coast Guard	33, I; 46, I; 49, IV
Coast Guard (Great Lakes Pilotage)	46, III
Customs and Border Protection Bureau	19, I
Federal Emergency Management Agency	44, I
Immigration and Customs Enforcement Bureau	19, IV
Immigration and Naturalization	8, I
Transportation Security Administration	49, XII
Housing and Urban Development, Department of	2, XXIV; 5, LXV; 24, Subtitle B
Community Planning and Development, Office of Assistant Secretary for	24, V, VI
Equal Opportunity, Office of Assistant Secretary for	24, I
Federal Acquisition Regulation	48, 24
Federal Housing Enterprise Oversight, Office of	12, XVII
Government National Mortgage Association	24, III
Housing—Federal Housing Commissioner, Office of Assistant Secretary for	24, II, VIII, X, XX
Housing, Office of, and Multifamily Housing Assistance Restructuring, Office of	24, IV
Inspector General, Office of	24, XII
Public and Indian Housing, Office of Assistant Secretary for	24, IX
Secretary, Office of	24, Subtitle A, VII
Housing—Federal Housing Commissioner, Office of Assistant Secretary for	24, II, VIII, X, XX
Housing, Office of, and Multifamily Housing Assistance Restructuring, Office of	24, IV
Human Development Services, Office of	45, XIII
Immigration and Customs Enforcement Bureau	19, IV
Immigration and Naturalization	8, I
Immigration Review, Executive Office for	8, V
Independent Counsel, Office of	28, VII
Indian Affairs, Bureau of	25, I, V
Indian Affairs, Office of the Assistant Secretary	25, VI
Indian Arts and Crafts Board	25, II
Indian Health Service	25, V
Industry and Security, Bureau of	15, VII
Information Resources Management, Office of	7, XXVII

Agency	CFR Title, Subtitle or Chapter
Information Security Oversight Office, National Archives and Records Administration	32, XX
Inspector General	
Agriculture Department	7, XXVI
Health and Human Services Department	42, V
Housing and Urban Development Department	24, XII
Institute of Peace, United States	22, XVII
Inter-American Foundation	5, LXIII; 22, X
Interior Department	
American Indians, Office of the Special Trustee	25, VII
Endangered Species Committee	50, IV
Federal Acquisition Regulation	48, 14
Federal Property Management Regulations System	41, 114
Fish and Wildlife Service, United States	50, I, IV
Geological Survey	30, IV
Indian Affairs, Bureau of	25, I, V
Indian Affairs, Office of the Assistant Secretary	25, VI
Indian Arts and Crafts Board	25, II
Land Management, Bureau of	43, II
Minerals Management Service	30, II
National Indian Gaming Commission	25, III
National Park Service	36, I
Reclamation, Bureau of	43, I
Secretary of the Interior, Office of	2, XIV; 43, Subtitle A
Surface Mining and Reclamation Appeals, Board of	30, III
Surface Mining Reclamation and Enforcement, Office of	30, VII
Internal Revenue Service	26, I
International Boundary and Water Commission, United States and Mexico, United States Section	22, XI
International Development, United States Agency for	22, II
Federal Acquisition Regulation	48, 7
International Development Cooperation Agency, United States	22, XII
International Fishing and Related Activities	50, III
International Investment, Office of	31, VIII
International Joint Commission, United States and Canada	22, IV
International Organizations Employees Loyalty Board	5, V
International Trade Administration	15, III; 19, III
International Trade Commission, United States	19, II
Interstate Commerce Commission	5, XL
James Madison Memorial Fellowship Foundation	45, XXIV
Japan–United States Friendship Commission	22, XVI
Joint Board for the Enrollment of Actuaries	20, VIII
Justice Department	2, XXVII; 5, XXVIII; 28, I, XI; 40, IV
Alcohol, Tobacco, Firearms, and Explosives, Bureau of	27, II
Drug Enforcement Administration	21, II
Federal Acquisition Regulation	48, 28
Federal Claims Collection Standards	31, IX
Federal Prison Industries, Inc.	28, III
Foreign Claims Settlement Commission of the United States	45, V
Immigration Review, Executive Office for	8, V
Offices of Independent Counsel	28, VI
Prisons, Bureau of	28, V
Property Management Regulations	41, 128
Labor Department	5, XLII
Benefits Review Board	20, VII
Employee Benefits Security Administration	29, XXV
Employees' Compensation Appeals Board	20, IV
Employment and Training Administration	20, V
Employment Standards Administration	20, VI
Federal Acquisition Regulation	48, 29
Federal Contract Compliance Programs, Office of	41, 60
Federal Procurement Regulations System	41, 50
Labor-Management Standards, Office of	29, II, IV
Mine Safety and Health Administration	30, I

Agency	CFR Title, Subtitle or Chapter
Occupational Safety and Health Administration	29, XVII
Public Contracts	41, 50
Secretary of Labor, Office of	29, Subtitle A
Veterans' Employment and Training Service, Office of the Assistant Secretary for	41, 61; 20, IX
Wage and Hour Division	29, V
Workers' Compensation Programs, Office of	20, I
Labor-Management Standards, Office of	29, II, IV
Land Management, Bureau of	43, II
Legal Services Corporation	45, XVI
Library of Congress	36, VII
Copyright Office	37, II
Copyright Royalty Board	37, III
Local Television Loan Guarantee Board	7, XX
Management and Budget, Office of	5, III, LXXVII; 14, VI; 48, 99
Marine Mammal Commission	50, V
Maritime Administration	46, II
Merit Systems Protection Board	5, II, LXIV
Micronesian Status Negotiations, Office for	32, XXVII
Millenium Challenge Corporation	22, XIII
Mine Safety and Health Administration	30, I
Minerals Management Service	30, II
Minority Business Development Agency	15, XIV
Miscellaneous Agencies	1, IV
Monetary Offices	31, I
Morris K. Udall Scholarship and Excellence in National Environmental Policy Foundation	36, XVI
National Aeronautics and Space Administration	2, XVIII; 5, LIX; 14, V
Federal Acquisition Regulation	48, 18
National Agricultural Library	7, XLI
National Agricultural Statistics Service	7, XXXVI
National and Community Service, Corporation for	45, XII, XXV
National Archives and Records Administration	2, XXVI; 5, LXVI; 36, XII
Information Security Oversight Office	32, XX
National Capital Planning Commission	1, IV
National Commission for Employment Policy	1, IV
National Commission on Libraries and Information Science	45, XVII
National Council on Disability	34, XII
National Counterintelligence Center	32, XVIII
National Credit Union Administration	12, VII
National Crime Prevention and Privacy Compact Council	28, IX
National Drug Control Policy, Office of	21, III
National Endowment for the Arts	2, XXXII
National Endowment for the Humanities	2, XXXIII
National Foundation on the Arts and the Humanities	45, XI
National Highway Traffic Safety Administration	23, II, III; 49, V
National Imagery and Mapping Agency	32, I
National Indian Gaming Commission	25, III
National Institute for Literacy	34, XI
National Institute of Standards and Technology	15, II
National Intelligence, Office of Director of	32, XVII
National Labor Relations Board	5, LXI; 29, I
National Marine Fisheries Service	50, II, IV, VI
National Mediation Board	29, X
National Oceanic and Atmospheric Administration	15, IX; 50, II, III, IV, VI
National Park Service	36, I
National Railroad Adjustment Board	29, III
National Railroad Passenger Corporation (AMTRAK)	49, VII
National Science Foundation	2, XXV; 5, XLIII; 45, VI
Federal Acquisition Regulation	48, 25
National Security Council	32, XXI
National Security Council and Office of Science and Technology Policy	47, II
National Telecommunications and Information Administration	15, XXIII; 47, III

Agency	CFR Title, Subtitle or Chapter
National Transportation Safety Board	49, VIII
Natural Resources Conservation Service	7, VI
Navajo and Hopi Indian Relocation, Office of	25, IV
Navy Department	32, VI
Federal Acquisition Regulation	48, 52
Neighborhood Reinvestment Corporation	24, XXV
Northeast Interstate Low-Level Radioactive Waste Commission	10, XVIII
Nuclear Regulatory Commission	5, XLVIII; 10, I
Federal Acquisition Regulation	48, 20
Occupational Safety and Health Administration	29, XVII
Occupational Safety and Health Review Commission	29, XX
Offices of Independent Counsel	28, VI
Oklahoma City National Memorial Trust	36, XV
Operations Office	7, XXVIII
Overseas Private Investment Corporation	5, XXXIII; 22, VII
Patent and Trademark Office, United States	37, I
Payment From a Non-Federal Source for Travel Expenses	41, 304
Payment of Expenses Connected With the Death of Certain Employees	41, 303
Peace Corps	22, III
Pennsylvania Avenue Development Corporation	36, IX
Pension Benefit Guaranty Corporation	29, XL
Personnel Management, Office of	5, I, XXXV; 45, VIII
Federal Acquisition Regulation	48, 17
Federal Employees Group Life Insurance Federal Acquisition Regulation	48, 21
Federal Employees Health Benefits Acquisition Regulation	48, 16
Pipeline and Hazardous Materials Safety Administration	49, I
Postal Regulatory Commission	5, XLVI; 39, III
Postal Service, United States	5, LX; 39, I
Postsecondary Education, Office of	34, VI
President's Commission on White House Fellowships	1, IV
Presidential Documents	3
Presidio Trust	36, X
Prisons, Bureau of	28, V
Privacy and Civil Liberties Oversight Board	6, X
Procurement and Property Management, Office of	7, XXXII
Productivity, Technology and Innovation, Assistant Secretary	37, IV
Public Contracts, Department of Labor	41, 50
Public and Indian Housing, Office of Assistant Secretary for	24, IX
Public Health Service	42, I
Railroad Retirement Board	20, II
Reclamation, Bureau of	43, I
Refugee Resettlement, Office of	45, IV
Relocation Allowances	41, 302
Research and Innovative Technology Administration	49, XI
Rural Business-Cooperative Service	7, XVIII, XLII
Rural Development Administration	7, XLII
Rural Housing Service	7, XVIII, XXXV
Rural Telephone Bank	7, XVI
Rural Utilities Service	7, XVII, XVIII, XLII
Saint Lawrence Seaway Development Corporation	33, IV
Science and Technology Policy, Office of	32, XXIV
Science and Technology Policy, Office of, and National Security Council	47, II
Secret Service	31, IV
Securities and Exchange Commission	17, II
Selective Service System	32, XVI
Small Business Administration	2, XXVII; 13, I
Smithsonian Institution	36, V
Social Security Administration	2, XXIII; 20, III; 48, 23
Soldiers' and Airmen's Home, United States	5, XI
Special Counsel, Office of	5, VIII
Special Education and Rehabilitative Services, Office of	34, III
State Department	2, VI; 22, I; 28, XI

Agency	CFR Title, Subtitle or Chapter
Federal Acquisition Regulation	48, 6
Surface Mining and Reclamation Appeals, Board of	30, III
Surface Mining Reclamation and Enforcement, Office of	30, VII
Surface Transportation Board	49, X
Susquehanna River Basin Commission	18, VIII
Technology Administration	15, XI
Technology Policy, Assistant Secretary for	37, IV
Technology, Under Secretary for	37, V
Tennessee Valley Authority	5, LXIX; 18, XIII
Thrift Supervision Office, Department of the Treasury	12, V
Trade Representative, United States, Office of	15, XX
Transportation, Department of	2, XII; 5, L
Commercial Space Transportation	14, III
Contract Appeals, Board of	48, 63
Emergency Management and Assistance	44, IV
Federal Acquisition Regulation	48, 12
Federal Aviation Administration	14, I
Federal Highway Administration	23, I, II
Federal Motor Carrier Safety Administration	49, III
Federal Railroad Administration	49, II
Federal Transit Administration	49, VI
Maritime Administration	46, II
National Highway Traffic Safety Administration	23, II, III; 49, V
Pipeline and Hazardous Materials Safety Administration	49, I
Saint Lawrence Seaway Development Corporation	33, IV
Secretary of Transportation, Office of	14, II; 49, Subtitle A
Surface Transportation Board	49, X
Transportation Statistics Bureau	49, XI
Transportation, Office of	7, XXXIII
Transportation Security Administration	49, XII
Transportation Statistics Bureau	49, XI
Travel Allowances, Temporary Duty (TDY)	41, 301
Treasury Department	5, XXI; 12, XV; 17, IV; 31, IX
Alcohol and Tobacco Tax and Trade Bureau	27, I
Community Development Financial Institutions Fund	12, XVIII
Comptroller of the Currency	12, I
Customs and Border Protection Bureau	19, I
Engraving and Printing, Bureau of	31, VI
Federal Acquisition Regulation	48, 10
Federal Claims Collection Standards	31, IX
Federal Law Enforcement Training Center	31, VII
Fiscal Service	31, II
Foreign Assets Control, Office of	31, V
Internal Revenue Service	26, I
International Investment, Office of	31, VIII
Monetary Offices	31, I
Secret Service	31, IV
Secretary of the Treasury, Office of	31, Subtitle A
Thrift Supervision, Office of	12, V
Truman, Harry S. Scholarship Foundation	45, XVIII
United States and Canada, International Joint Commission	22, IV
United States and Mexico, International Boundary and Water Commission, United States Section	22, XI
Utah Reclamation Mitigation and Conservation Commission	43, III
Veterans Affairs Department	2, VIII; 38, I
Federal Acquisition Regulation	48, 8
Veterans' Employment and Training Service, Office of the Assistant Secretary for	41, 61; 20, IX
Vice President of the United States, Office of	32, XXVIII
Vocational and Adult Education, Office of	34, IV
Wage and Hour Division	29, V
Water Resources Council	18, VI
Workers' Compensation Programs, Office of	20, I
World Agricultural Outlook Board	7, XXXVIII

List of CFR Sections Affected

All changes in this volume of the Code of Federal Regulations that were made by documents published in the FEDERAL REGISTER since January 1, 2001, are enumerated in the following list. Entries indicate the nature of the changes effected. Page numbers refer to FEDERAL REGISTER pages. The user should consult the entries for chapters and parts as well as sections for revisions.

For the period before January 1, 2001, see the ''List of CFR Sections Affected, 1949–1963, 1964–1972, 1973–1985, and 1986–2000'' published in 11 separate volumes.

2001

50 CFR

66 FR Page

Chapter I
17.95 (i) amended 9231, 21475
(f) added 9244
(d) amended 9450, 14659
(d) corrected ..... 13657—13671
(e) amended 18031
(h) amended 29404
(g) added 35560
(e) amended; eff. 10–9–01 46560

2002

50 CFR

67 FR Page

Chapter I
17.95 (i) amended 18383
(f) amended 44515, 54053
(f) amended; eff. 10–28–02 61034

2003

50 CFR

68 FR Page

Chapter I
17.95 (e) amended 8132, 13406
(g) and (h) amended 17456
(g) and (i) amended 17191
(i) amended 34758
(h) amended 46757

2004

50 CFR

69 FR Page

Chapter I
17.95 (e) amended 8851, 44761, 60046
(f) amended 40117, 53161

50 CFR—Continued

69 FR Page

Chapter I—Continued
(d) amended 68597

2005

50 CFR

70 FR Page

Chapter I
17.95 (e) amended 448, 15240–15244, 17927, 59844, 66706
(e) corrected 8037
(h) amended 19199, 46956
(d) amended 19616, 49417, 74163
Regulation at 69 FR 60046 comment period opened 29998, 32732
(f) amended 46329
(e) amended; eff. 10–26–05 56265

2006

50 CFR

71 FR Page

Chapter I
17.95 (d) amended 19294
(e) amended; interim 6394
(h) amended 7123
(d) amended; eff. 10–16–06 54371
(c) amended 58206
(f) amended 63908, 74609

2007

50 CFR

72 FR Page

Chapter I
17.95 (e) amended 13404
(h) and (i) amended 39265
(i) amended; eff. 10–5–07 51137
(d) amended 60081

50 CFR—Continued

		72 FR Page
Chapter I—Continued		
	(f) amended	64314
	(h) amended	70692

2008

(Regulations published from January 1, 2008 through October 1, 2008)

50 CFR

		73 FR Page
Chapter I		
17.95	(e) amended	5953, 39521, 47020
	(i) amended	50433