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CODE OF FEDERAL REGULATIONS

Title 50
Wildlife and Fisheries

Part 17 (§§ 17.95(c) to 17.95(e))

Revised as of October 1, 2018

Containing a codification of documents
of general applicability and future effect

As of October 1, 2018

Published by the Office of the Federal Register
National Archives and Records Administration
as a Special Edition of the Federal Register

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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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To determine whether a Code volume has been amended since its revision date (in this case, October 1, 2018), 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.

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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.

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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.

PAST PROVISIONS OF THE CODE

Provisions of the Code that are no longer in force and effect as of the revision date stated on the cover of each volume are not carried. Code users may find the text of provisions in effect on any given date in the past by using the appropriate List of CFR Sections Affected (LSA). For the convenience of the reader, a ''List of CFR Sections Affected'' is published at the end of each CFR volume. For changes to the Code prior to the LSA listings at the end of the volume, consult previous annual editions of the LSA. For changes to the Code prior to 2001, consult the List of CFR Sections Affected compilations, published for 1949-1963, 1964-1972, 1973-1985, and 1986-2000.

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The term ''[Reserved]'' is used as a place holder within the Code of Federal Regulations. An agency may add regulatory information at a ''[Reserved]'' location at any time. Occasionally ''[Reserved]'' is used editorially to indicate that a portion of the CFR was left vacant and not accidentally dropped due to a printing or computer error.

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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.

What if the material incorporated by reference cannot be found? If you have any problem locating or obtaining a copy of material listed 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, 8601 Adelphi Road, College Park, MD 20740-6001, or call 202-741-6010.

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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 Authorities and Rules. A list of CFR titles, chapters, subchapters, 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.

REPUBLICATION OF MATERIAL

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

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OLIVER A. POTTS,
Director,
Office of the Federal Register
October 1, 2018.

THIS TITLE

Title 50—FISH AND WILDLIFE is composed of thirteen volumes. The parts in these volumes are arranged in the following order: Parts 1–16; part 17 (17.1 to 17.95(a)), part 17 (17.95(b)), part (17.95(c) to (e)), part 17 (17.95(f) to end of 17.95), part 17 (17.96 to 17.98), part 17 (17.99(a) to 17.99(h)), part 17 (17.99(i) to end of part 17), parts 18–199, parts 200–227, parts 228–599, parts 600–659, and part 660 to end. The first nine volumes consist of parts 1–16, part 17 (17.1 to 17.95(a)), part 17 (17.95(b)), part 17 (17.95(c) to (e)), part 17 (17.95(f) to end of 17.95), part 17 (17.96 to 17.98), part 17 (17.99(a) to 17.99(h), part 17 (17.99(i) to end of part 17), and parts 18–199 and contain the current regulations issued under chapter I—United States Fish and Wildlife Service, Department of the Interior. The tenth volume (parts 200–227) contains the current regulations issued under chapter II--the National Marine Fisheries Service, National Oceanic and Atmospheric Administration. The eleventh volume (parts 228–599) contains the remaining current regulations issued under chapter II—National Marine Fisheries Service, National Oceanic and Atmospheric Administration, Department of Commerce; and the current regulations issued under 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 twelfth and thirteenth 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, 2018.

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, Susannah C. Hurley was Chief Editor. The Code of Federal Regulations publication program is under the direction of John Hyrum Martinez, assisted by Stephen J. Frattini.

Title 50—Wildlife and Fisheries

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

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)

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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)

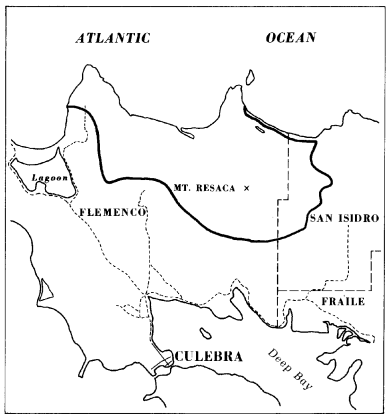
EDITORIAL NOTE: Paragraphs (a)–(b) of §17.95 appear in 50 Part 17, §§17.1 to 17.95(a) and 50 Part 17, §17.95(b).

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

(c) *Reptiles.*

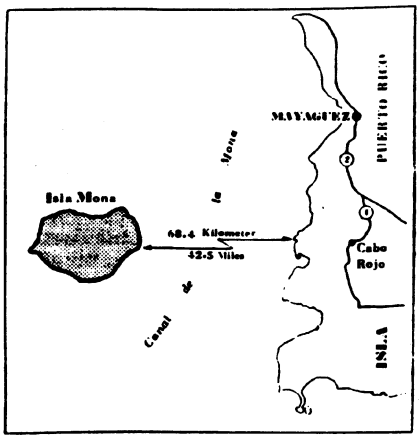
CULEBRA ISLAND GIANT ANOLE (*Anolis roosevetti*)

NOTE: No text. Map follows:



MONA BOA (*Epicrates monensis monensis*)

Commonwealth of Puerto Rico. Mona Island—entire island.
NOTE: Map follows:

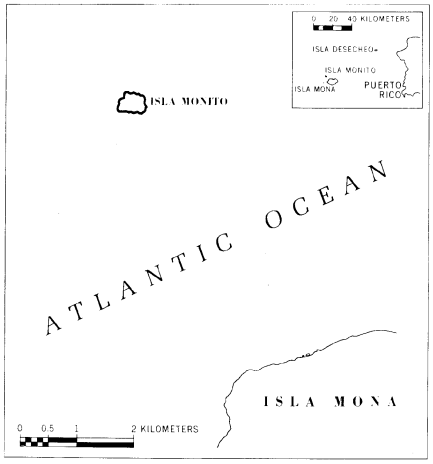


AMERICAN CROCODILE (*Crocodylus acutus*)

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*)

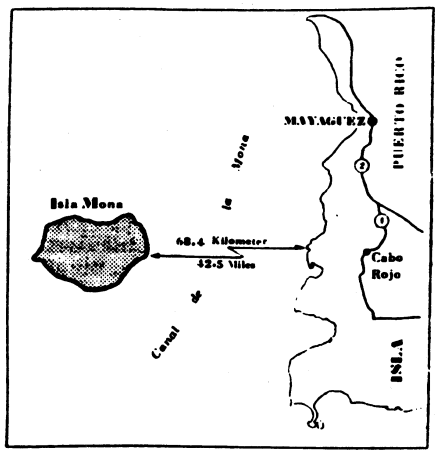
Puerto Rico. Isla Monito—entire island.
NOTE: Map follows:



MONA GROUND IGUANA (*Cyclura stejnegeri*)

Commonwealth of Puerto Rico. Mona Island—entire island.

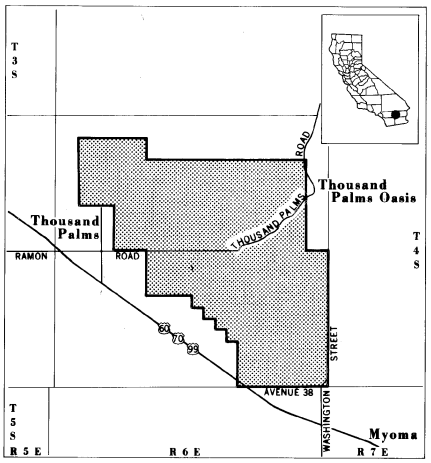
NOTE: Map follows:



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.

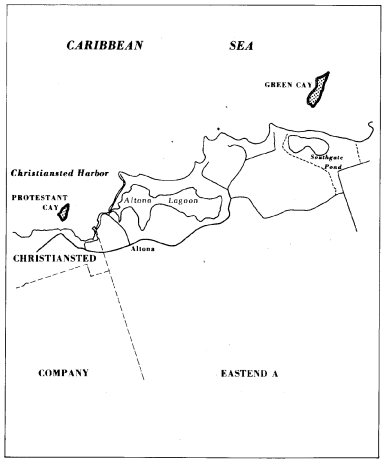
NOTE: Map follows:



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.

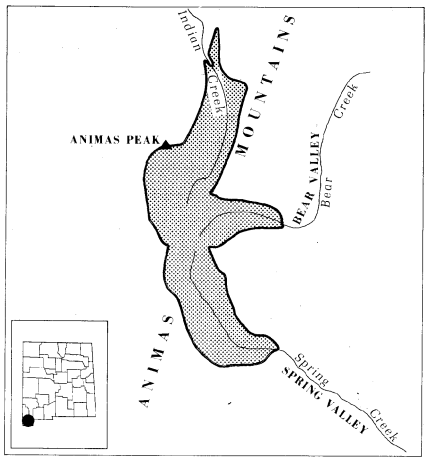
NOTE: Map follows:



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.

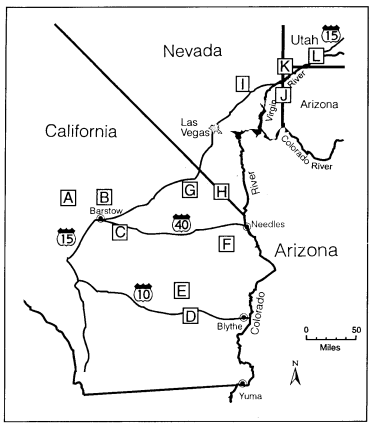
NOTE: Map follows:



DESERT TORTOISE—MOJAVE POPULATION
(*Gopherus agassizii*)

Index map of approximate locations of critical habitat units follows:

MAP 1



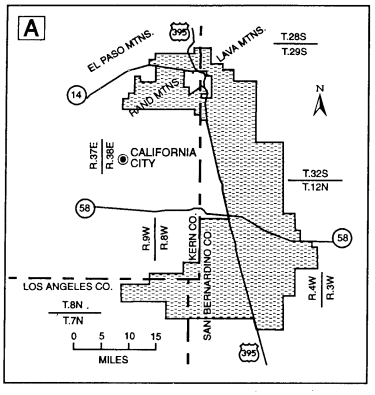
California. Areas of land as follows:

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

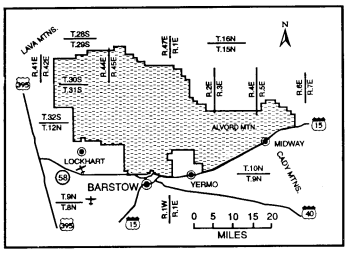


2. *Superior-Cronese Unit.* San Bernardino County. From BLM Maps: Cuddeback Lake 1978, Soda Mts. 1978, Victorville 1978, and Newberry Springs 1978. (Index map location B).

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.

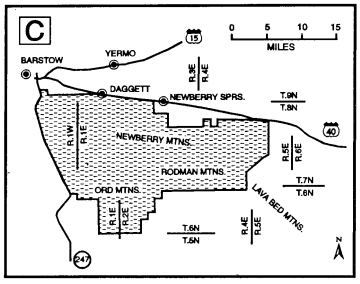
MAP 3



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.

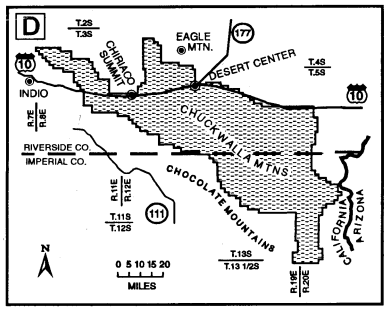
MAP 4



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.

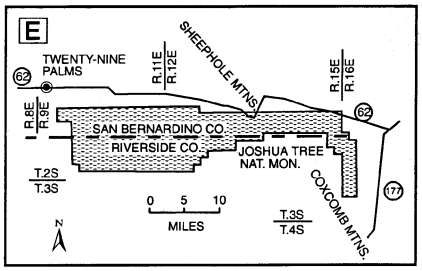
MAP 5



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

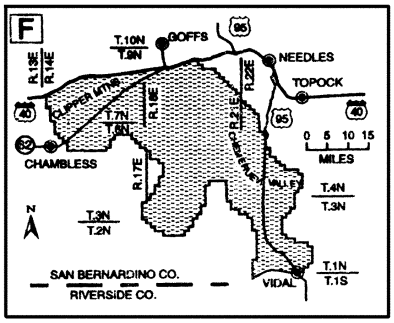


6. *Chemehuevi Unit.* San Bernardino County. From BLM Maps: Sheep Hole Mts. 1978, Parker 1979, Needles 1978, and Amboy 1991. (Index map location F).

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.

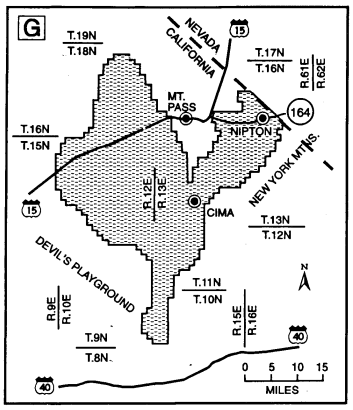
MAP 7



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.

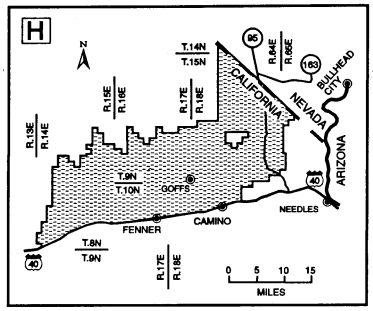
MAP 8



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



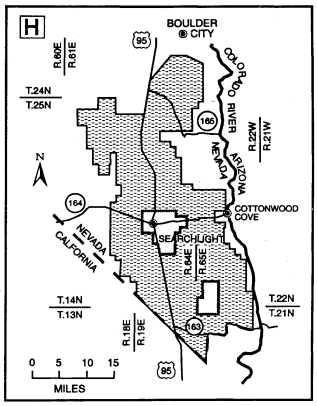
Nevada. Areas of land as follows:

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.

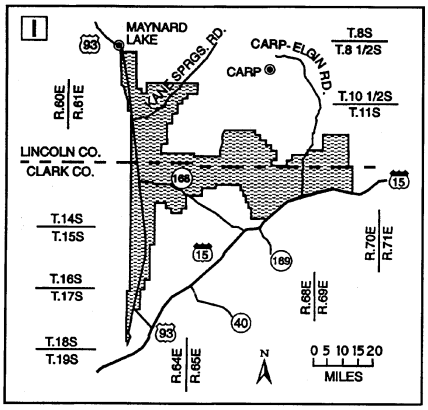
MAP 10



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.

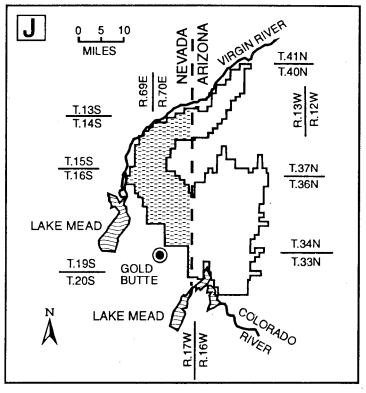
MAP 11



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.

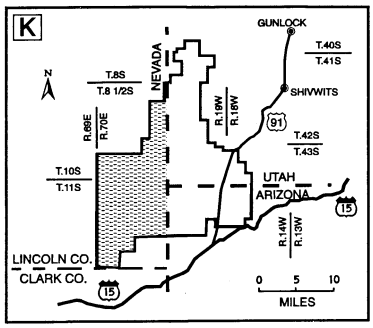
MAP 12



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

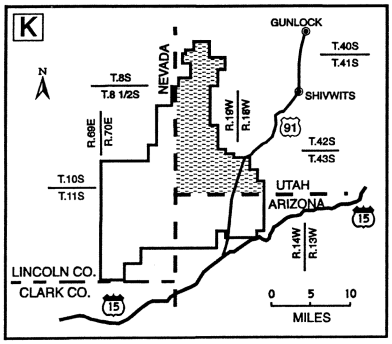


Utah. Areas of land as follows:

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

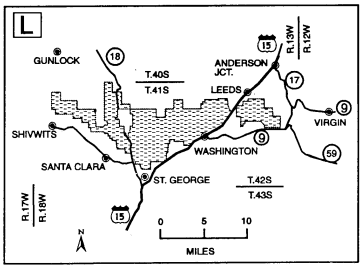


14. *Upper Virgin River Unit.* Washington County. From BLM Map: St. George 1980. (Index map location L).

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

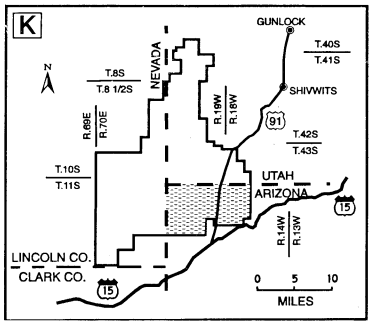


Arizona. Areas of land as follows:

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.

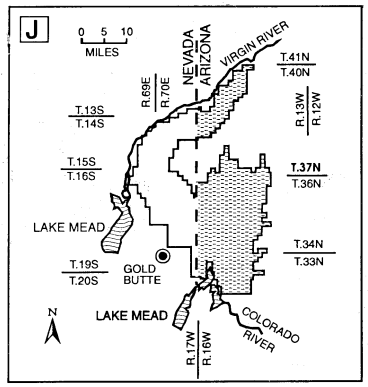
MAP 16



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

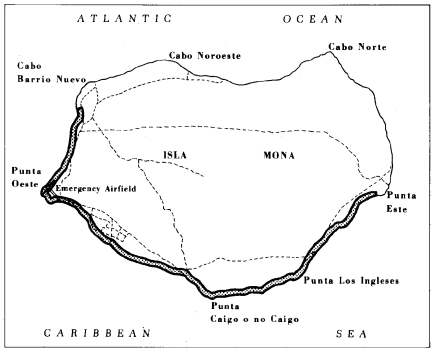


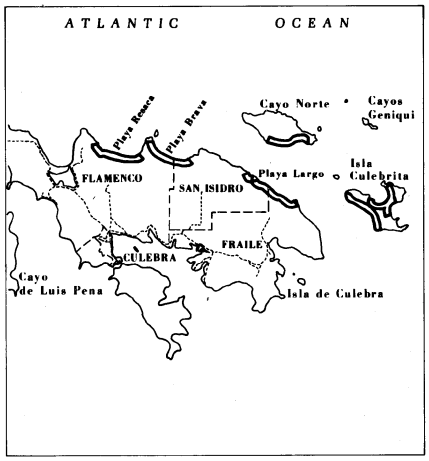
Primary constituent elements: Desert lands that are used or potentially used by the desert tortoise for nesting, sheltering, foraging, dispersal, or gene flow.

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.

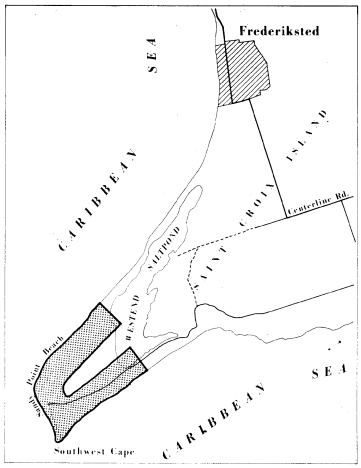




LEATHERBACK SEA TURTLE (*Dermochelys coriacea*)

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:



LOGGERHEAD SEA TURTLE, NORTHWEST ATLANTIC OCEAN DPS (*Caretta caretta*)

(1) Critical habitat units are depicted for the following areas on the maps below:

(i) North Carolina—Brunswick, Carteret, New Hanover, Onslow, and Pender Counties;

(ii) South Carolina—Beaufort, Charleston, Colleton, and Georgetown Counties;

(iii) Georgia—Camden, Chatham, Liberty, and McIntosh Counties;

(iv) Florida—Bay, Brevard, Broward, Charlotte, Collier, Duval, Escambia, Flagler, Franklin, Gulf, Indian River, Lee, Manatee, Martin, Monroe, Palm Beach, Sarasota, St. Johns, St. Lucie, and Volusia Counties;

(v) Alabama—Baldwin County; and

(vi) Mississippi—Jackson County.

(2) Within these areas, the primary constituent elements of the physical or biological features essential to the conservation of the Northwest Atlantic Ocean distinct population segment of the loggerhead sea turtle are the extra-tidal or dry sandy beaches from the mean high-water line to the toe of the secondary dune, which are capable of supporting a high density of nests or serving as an expansion area for beaches with a high density of nests and that are well distributed within each State, or region within a State, and representative of total nesting, consisting of four components:

(i) Suitable nesting beach habitat that:

(A) Has relatively unimpeded nearshore access from the ocean to the beach for nesting females and from the beach to the ocean for both post-nesting females and hatchlings; and

(B) Is located above mean high water to avoid being inundated frequently by high tides.

(ii) Sand that:

(A) Allows for suitable nest construction;

(B) Is suitable for facilitating gas diffusion conducive to embryo development; and

(C) Is able to develop and maintain temperatures and a moisture content conducive to embryo development.

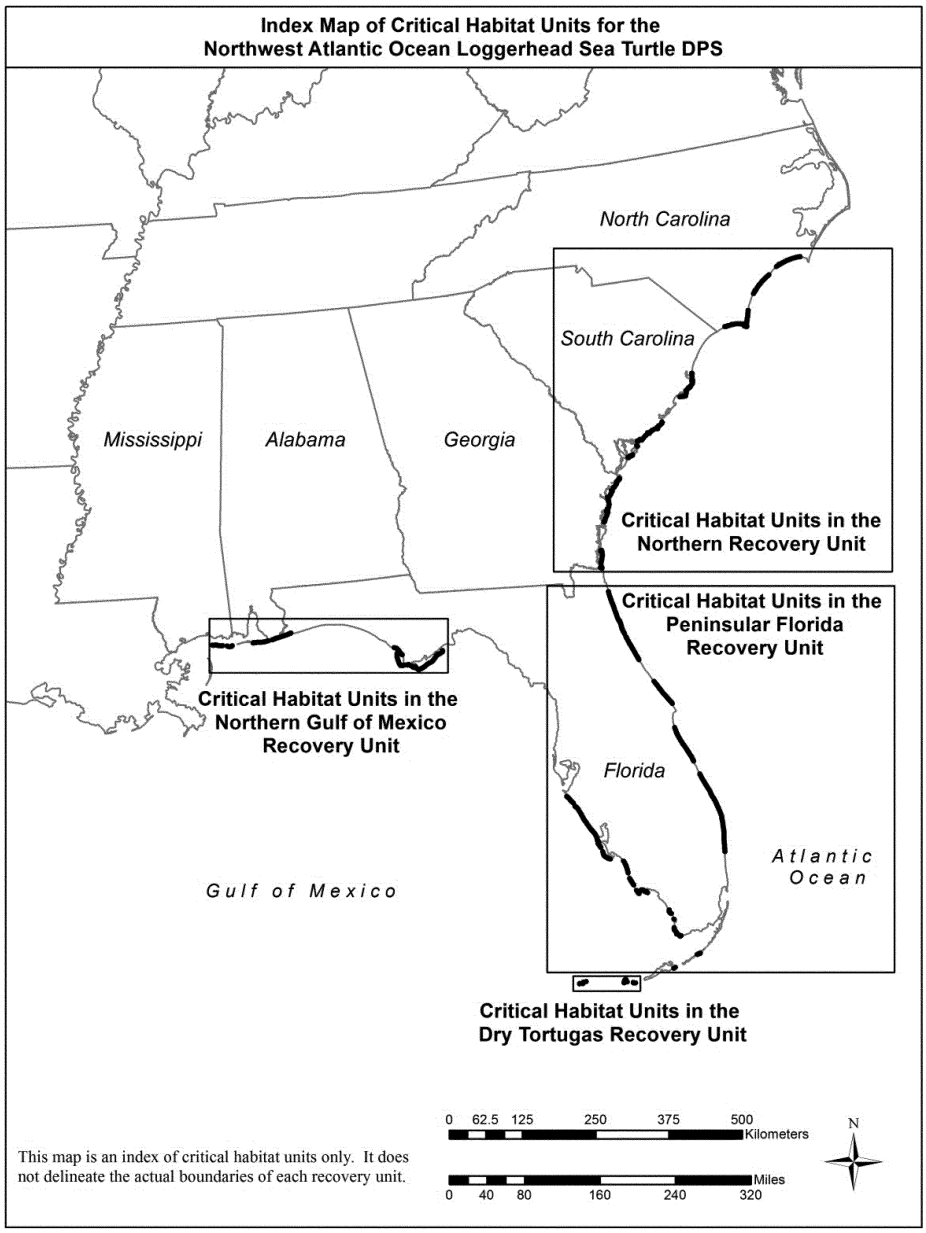
(iii) Suitable nesting beach habitat with sufficient darkness to ensure that nesting turtles are not deterred from emerging onto the beach and hatchlings and post-nesting females orient to the sea.

(iv) Natural coastal processes or artificially created or maintained habitat mimicking natural conditions. This includes artificial habitat types that mimic the natural conditions described in paragraphs (2)(i), (2)(ii), and (2)(iii) of this entry for beach access, nest site selection, nest construction, egg deposition and incubation, and hatchling emergence and movement to the sea. Habitat modification and loss occurs with beach stabilization activities that prevent the natural transfer and erosion and accretion of sediments along the ocean shoreline. Beach stabilization efforts that may impact loggerhead nesting include beach nourishment, beach maintenance, sediment dredging and disposal, inlet channelization, and construction of jetties and other hard structures. However, when sand placement activities result in beach habitat that mimics the natural beach habitat conditions, impacts to sea turtle nesting habitat are minimized.

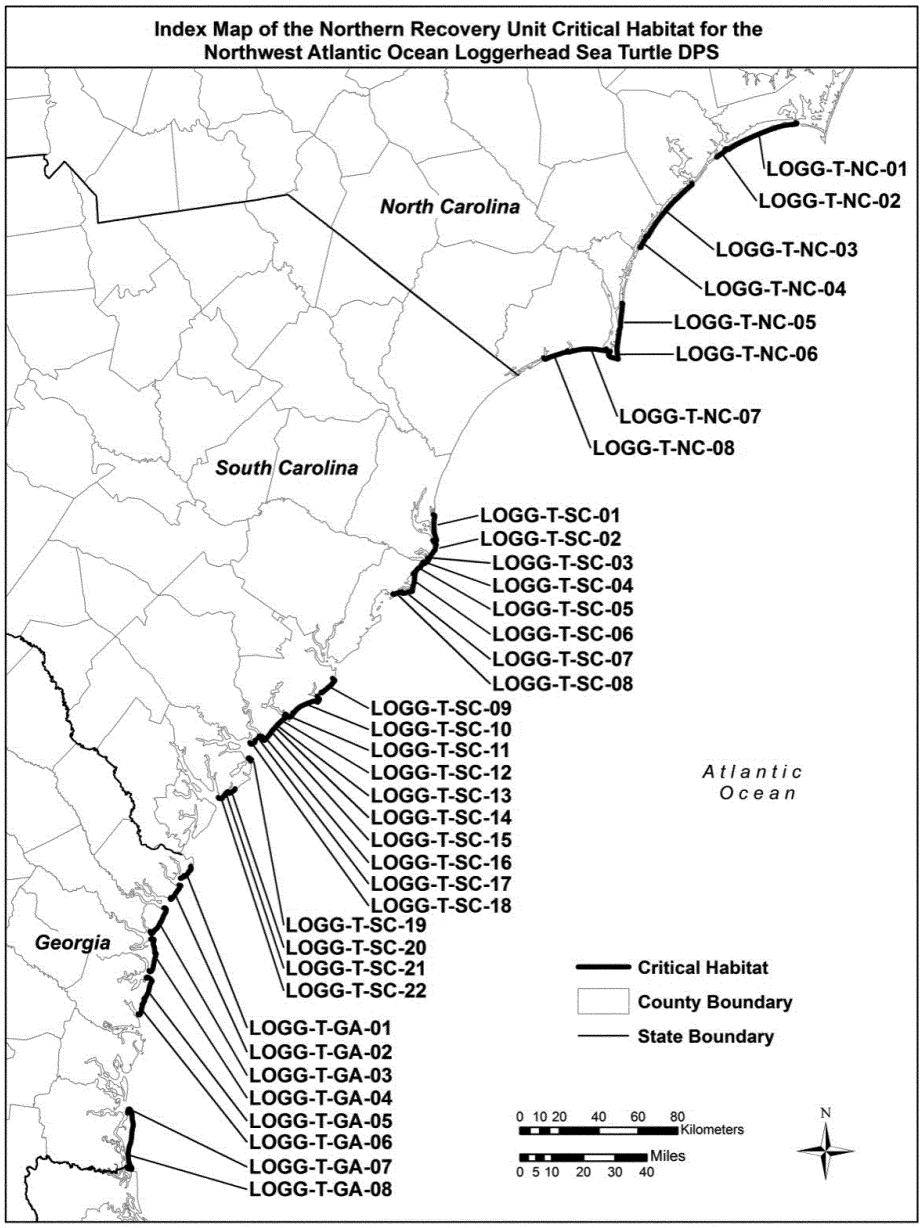
(3) Critical habitat does not include manmade structures (such as buildings, aqueducts, runways, roads, and other paved areas) and the land on which they are located existing within the legal boundaries on August 11, 2014.

(4) *Critical habitat map units.* Data layers defining map units were created using Google Earth imagery, then refined using Bing imagery. Unit descriptions were then mapped using North America Lambert Conformal Conic coordinates. The maps in this entry, as modified by any accompanying regulatory text, establish the boundaries of the critical habitat designation. The coordinates or plot points or both on which each map is based are available to the public at the Service's Internet site at *http://www.fws.gov/northflorida*, at *http:www.regulations.gov* at Docket No. FWS–R4–ES–2012–0103, and at the field office responsible for this designation. You may obtain field office location information by contacting one of the USFWS regional offices, the addresses of which are listed at 50 CFR 2.2.

(5) *Note:* Index map follows:



(6) *Note:* Index map of critical habitat units in the Northern Recovery Unit:



(7)(i) Units:

(A) LOGG–T–NC–01—Boque Banks, Carteret County, North Carolina.

(B) LOGG–T–NC–02—Bear Island, Onslow County, North Carolina.

(C) LOGG–T–NC–03—Topsail Island, Onslow and Pender Counties, North Carolina.

(D) LOGG–T–NC–04—Lea-Hutaff Island, Pender County, North Carolina.

(ii) General descriptions of units:

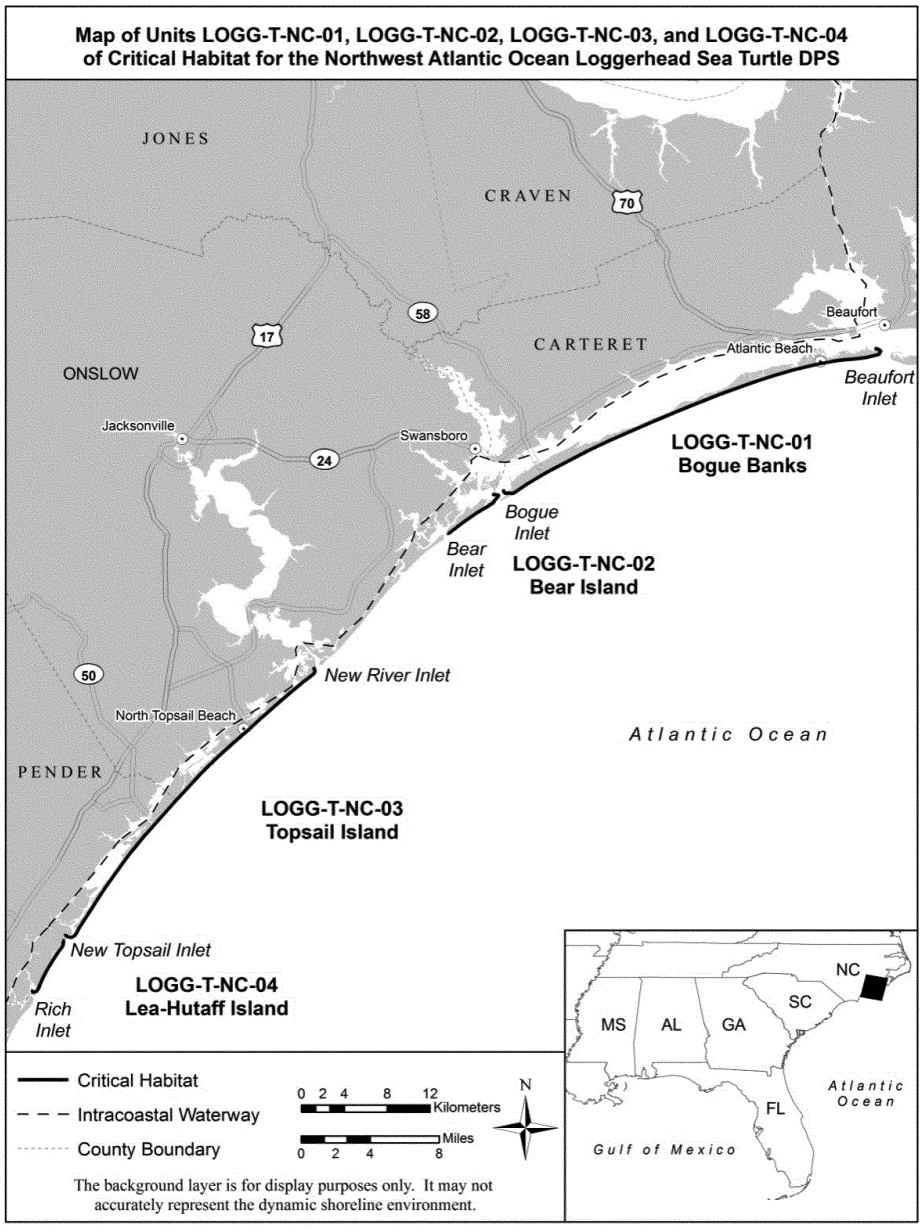
(A) LOGG–T–NC–01—Boque Banks: This unit consists of 38.9 km (24.2 mi) of island shoreline along the Atlantic Ocean and extends from Beaufort Inlet to Bogue Inlet.

(B) LOGG–T–NC–02—Bear Island: This unit consists of 6.6 km (4.1 mi) of island shoreline along the Atlantic Ocean and extends from Bogue Inlet to Bear Inlet.

(C) LOGG–T–NC–03—Topsail Island: This unit consists of 35.0 km (21.8 mi) of island shoreline along the Atlantic Ocean and extends from New River Inlet to New Topsail Inlet.

(D) LOGG–T–NC–04—Lea-Hutaff Island: This unit consists of 6.1 km (3.8 mi) of island shoreline along the Atlantic Ocean and extends from New Topsail Inlet to Rich Inlet.

(iii) Map of Units LOGG–T–NC–01, LOGG–T–NC–02, LOGG–T–NC–03, and LOGG–T–NC–04 follows:



(8)(i) Units:

(A) LOGG–T–NC–05—Pleasure Island, New Hanover County, North Carolina.

(B) LOGG–T–NC–06—Bald Head Island, Brunswick County, North Carolina.

(C) LOGG–T–NC–07—Oak Island, Brunswick County, North Carolina.

(D) LOGG–T–NC–08—Holden Beach, Brunswick County, North Carolina.

(ii) General descriptions of units:

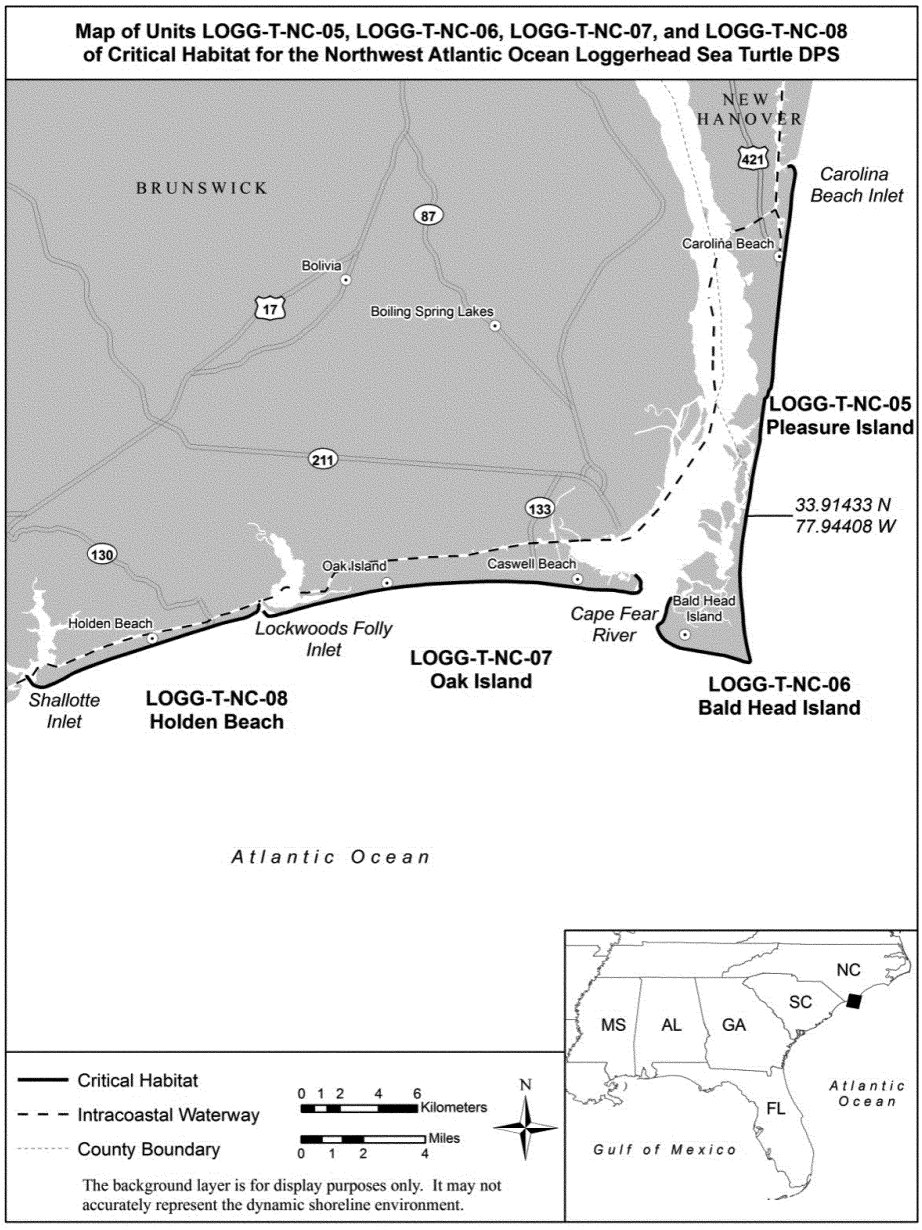
(A) LOGG–T–NC–05—Pleasure Island: This unit consists of 18.6 km (11.5 mi) of island shoreline along the Atlantic Ocean and extends from Carolina Beach Inlet to 33.91433 N, 77.94408 W (historic location of Corncake Inlet).

(B) LOGG–T–NC–06—Bald Head Island: This unit consists of 15.1 km (9.4 mi) of island shoreline along the Atlantic Ocean and extends from 33.91433 N, 77.94408 W (historic location of Corncake Inlet) to the mouth of the Cape Fear River.

(C) LOGG–T–NC–07—Oak Island: This unit consists of 20.9 km (13.0 mi) of island shoreline along the Atlantic Ocean and extends from the mouth of the Cape Fear River to Lockwoods Folly Inlet.

(D) LOGG–T–NC–08—Holden Beach: This unit consists of 13.4 km (8.3 mi) of island shoreline along the Atlantic Ocean and extends from Lockwoods Folly Inlet to Shallotte Inlet.

(iii) Map of Units LOGG–T–NC–05, LOGG–T–NC–06, LOGG–T–NC–07, and LOGG–T–NC–08 follows:



(9)(i) Units:

(A) LOGG–T–SC–01—North Island, Georgetown County, South Carolina.

(B) LOGG–T–SC–02—Sand Island, Georgetown County, South Carolina.

(C) LOGG–T–SC–03—South Island, Georgetown County, South Carolina.

(D) LOGG–T–SC–04—Cedar Island, Georgetown County, South Carolina.

(E) LOGG–T–SC–05—Murphy Island, Charleston County, South Carolina.

(ii) General descriptions of units:

(A) LOGG–T–SC–01—North Island: This unit consists of 13.2 km (8.2 mi) of island shoreline along the Atlantic Ocean and extends from North Inlet to Winyah Bay.

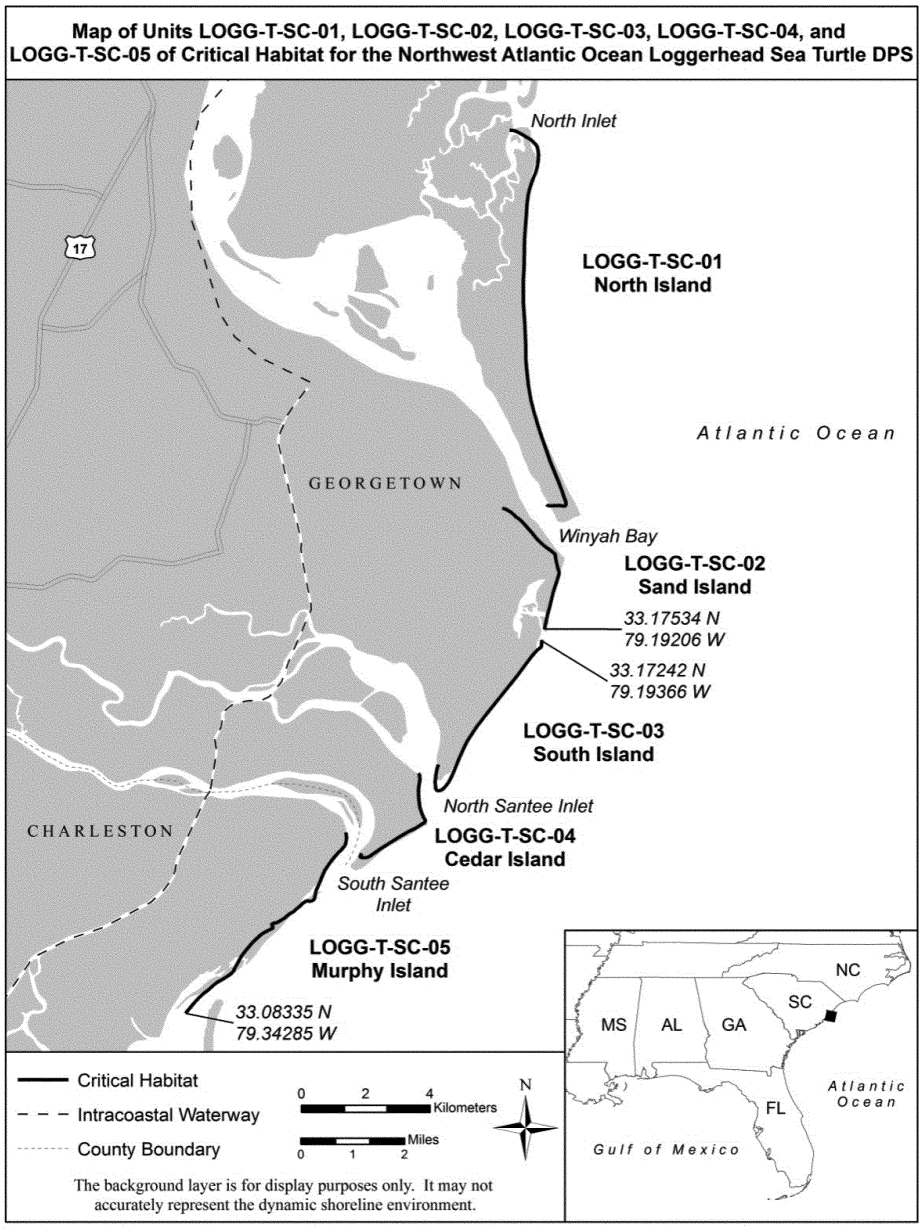
(B) LOGG–T–SC–02—Sand Island: This unit consists of 4.7 km (2.9 mi) of island shoreline along the Atlantic Ocean and Winyah Bay and extends from Winyah Bay to 33.17534 N, 79.19206 W (northern boundary of an unnamed inlet separating Sand Island and South Island).

(C) LOGG–T–SC–03—South Island: This unit consists of 6.7 km (4.2 mi) of island shoreline along the Atlantic Ocean and extends from 33.17242 N, 79.19366 W (southern boundary of an unnamed inlet separating Sand Island and South Island) to North Santee Inlet.

(D) LOGG–T–SC–04—Cedar Island: This unit consists of 4.1 km (2.5 mi) of island shoreline along the Atlantic Ocean and North Santee Inlet and extends from North Santee Inlet to South Santee Inlet.

(E) LOGG–T–SC–05—Murphy Island: This unit consists of 8.0 km (5.0 mi) of island shoreline along the Atlantic Ocean and South Santee Inlet and extends from South Santee Inlet to 33.08335 N, 79.34285 W.

(iii) Map of Units LOGG–T–SC–01, LOGG–T–SC–02, LOGG–T–SC–03, LOGG–T–SC–04, and LOGG–T–SC–05 follows:



(10)(i) Units:

(A) LOGG–T–SC–06—Cape Island, Charleston County, South Carolina.

(B) LOGG–T–SC–07—Lighthouse Island, Charleston County, South Carolina.

(C) LOGG–T–SC–08—Raccoon Key, Charleston County, South Carolina.

(ii) General descriptions of units:

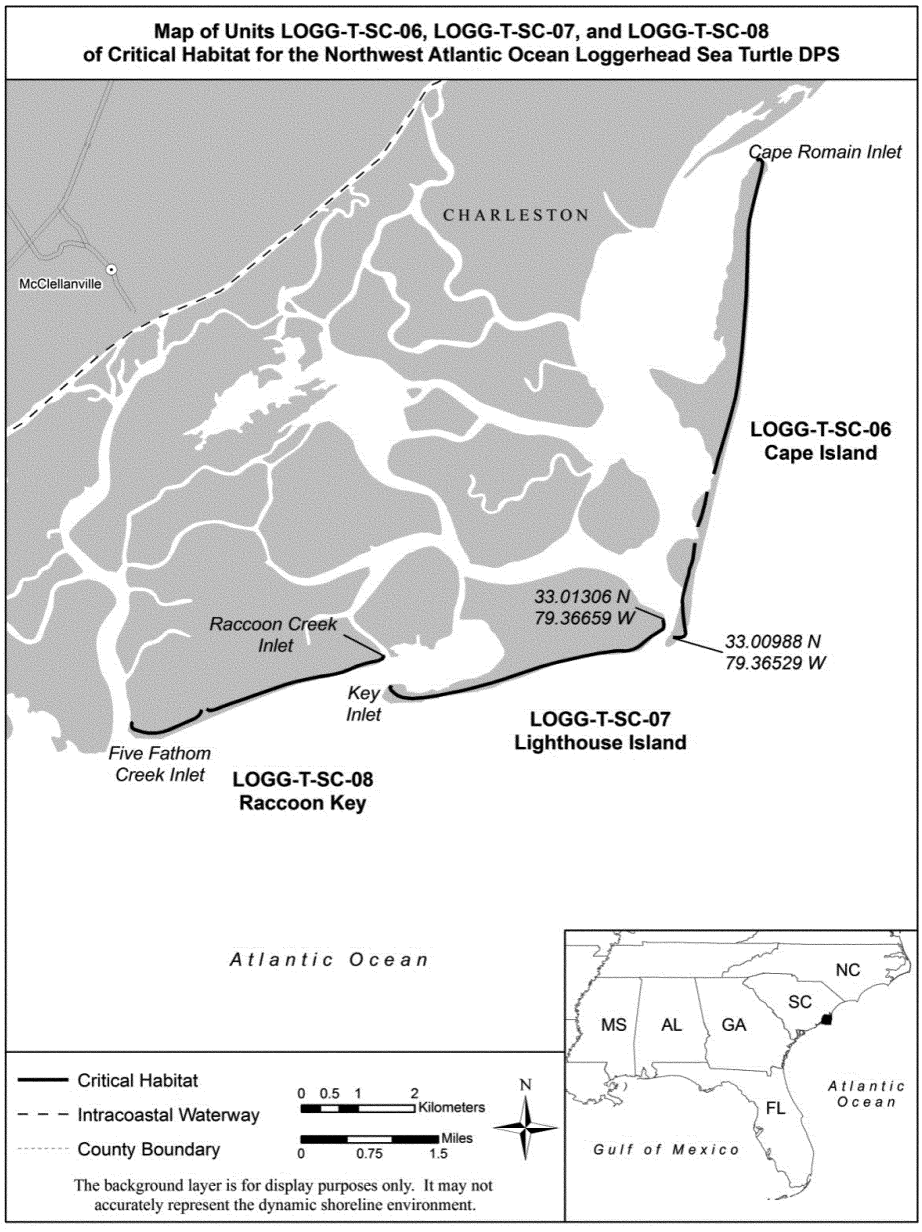
(A) LOGG–T–SC–06—Cape Island: This unit consists of 8.3 km (5.1 mi) of island shoreline

along the Atlantic Ocean and extends from Cape Romain Inlet to 33.00988 N, 79.36529 W (northern boundary of an unnamed inlet between Cape Island and Lighthouse Island).

(B) LOGG–T–SC–07—Lighthouse Island: This unit consists of 5.3 km (3.3 mi) of island shoreline along the Atlantic Ocean and extends from 33.01306 N, 79.36659 W (southern boundary of an unnamed inlet between Cape Island and Lighthouse Island) to Key Inlet.

(C) LOGG–T–SC–08—Raccoon Key: This unit consists of 4.8 km (3.0 mi) of island shoreline along the Atlantic Ocean and extends from Raccoon Creek Inlet to Five Fathom Creek Inlet.

(iii) Map of Units LOGG–T–SC–06, LOGG–T–SC–07, and LOGG–T–SC–08 follows:



(11)(i) Units:

(A) LOGG–T–SC–09—Folly Island, Charleston County, South Carolina.

(B) LOGG–T–SC–10—Kiawah Island, Charleston County, South Carolina.

(C) LOGG–T–SC–11—Seabrook Island, Charleston County, South Carolina.

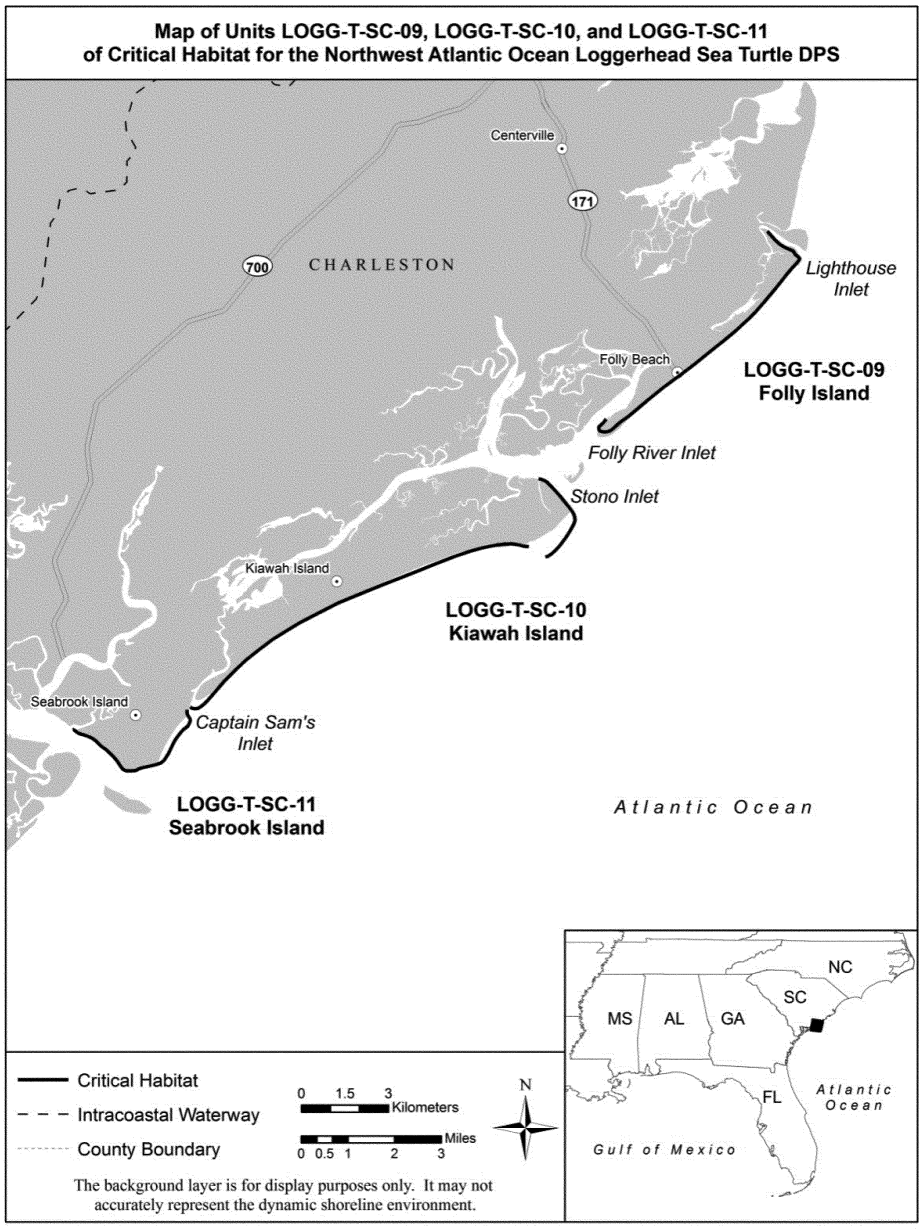
(ii) General descriptions of units:

(A) LOGG–T–SC–09—Folly Island: This unit consists of 11.2 km (7.0 mi) of island shoreline along the Atlantic Ocean and extends from Lighthouse Inlet to Folly River Inlet.

(B) LOGG–T–SC–10—Kiawah Island: This unit consists of 17.0 km (10.6 mi) of island shoreline along the Atlantic Ocean and Stono Inlet and extends from Stono Inlet to Captain Sam's Inlet.

(C) LOGG–T–SC–11—Seabrook Island: This unit consists of 5.8 km (3.6 mi) of island shoreline along the Atlantic Ocean and North Edisto Inlet and extends from Captain Sam's Inlet to North Edisto Inlet.

(iii) Map of Units LOGG–T–SC–09, LOGG–T–SC–10, and LOGG–T–SC–11 follows:



(12)(i) Units:

(A) LOGG–T–SC–12—Botany Bay Island and Botany Bay Plantation, Charleston County, South Carolina.

(B) LOGG–T–SC–13—Interlude Beach, Charleston County, South Carolina.

(C) LOGG–T–SC–14—Edingsville Beach, Charleston County, South Carolina.

(D) LOGG–T–SC–15—Edisto Beach State Park, Colleton County, South Carolina.

(E) LOGG–T–SC–16—Edisto Beach, Colleton County, South Carolina.

(ii) General descriptions of units:

(A) LOGG–T–SC–12—Botany Bay Island and Botany Bay Plantation: This unit consists of 6.6 km (4.1 mi) of island shoreline along the Atlantic Ocean and North Edisto Inlet and extends from North Edisto Inlet to 32.53710 N, 80.24614 W (northern boundary of an unnamed inlet separating Botany Bay Plantation and Interlude Beach).

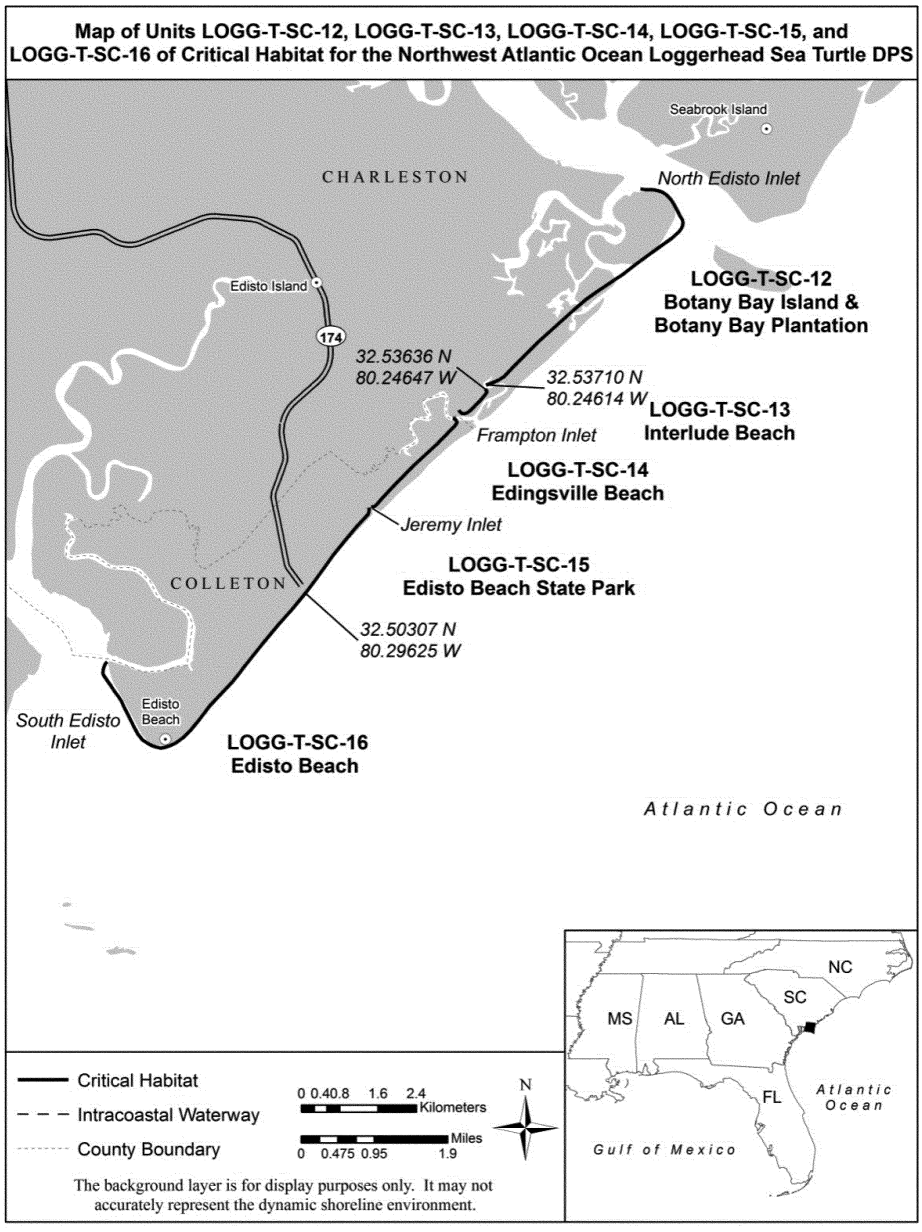
(B) LOGG–T–SC–13—Interlude Beach: This unit consists of 0.9 km (0.6 mi) of island shoreline along the Atlantic Ocean and extends from 32.53636 N, 80.24647 W (southern boundary of an unnamed inlet separating Interlude Beach and Botany Bay Plantation) to Frampton Inlet.

(C) LOGG–T–SC–14—Edingsville Beach: This unit consists of 2.7 km (1.7 mi) of island shoreline along the Atlantic Ocean and extends from Frampton Inlet to Jeremy Inlet.

(D) LOGG–T–SC–15—Edisto Beach State Park: This unit consists of 2.2 km (1.4 mi) of island shoreline along the Atlantic Ocean and extends from Jeremy Inlet to 32.50307 N, 80.29625 W (State Park boundary separating Edisto Beach State Park and the Town of Edisto Beach).

(E) LOGG–T–SC–16—Edisto Beach: This unit consists of 6.8 km (4.2 mi) of island shoreline along the Atlantic Ocean and South Edisto River and extends from 32.50307 N, 80.29625 W (State Park boundary separating Edisto Beach State Park and the Town of Edisto Beach) to South Edisto Inlet.

(iii) Map of Units LOGG–T–SC–12, LOGG–T–SC–13, LOGG–T–SC–14, LOGG–T–SC–15, and LOGG–T–SC–16 follows:



(13)(i) Units:

(A) LOGG–T–SC–17—Pine Island, Colleton County, South Carolina.

(B) LOGG–T–SC–18—Otter Island, Colleton County, South Carolina.

(C) LOGG–T–SC–19—Harbor Island, Beaufort County, South Carolina.

(ii) General descriptions of units:

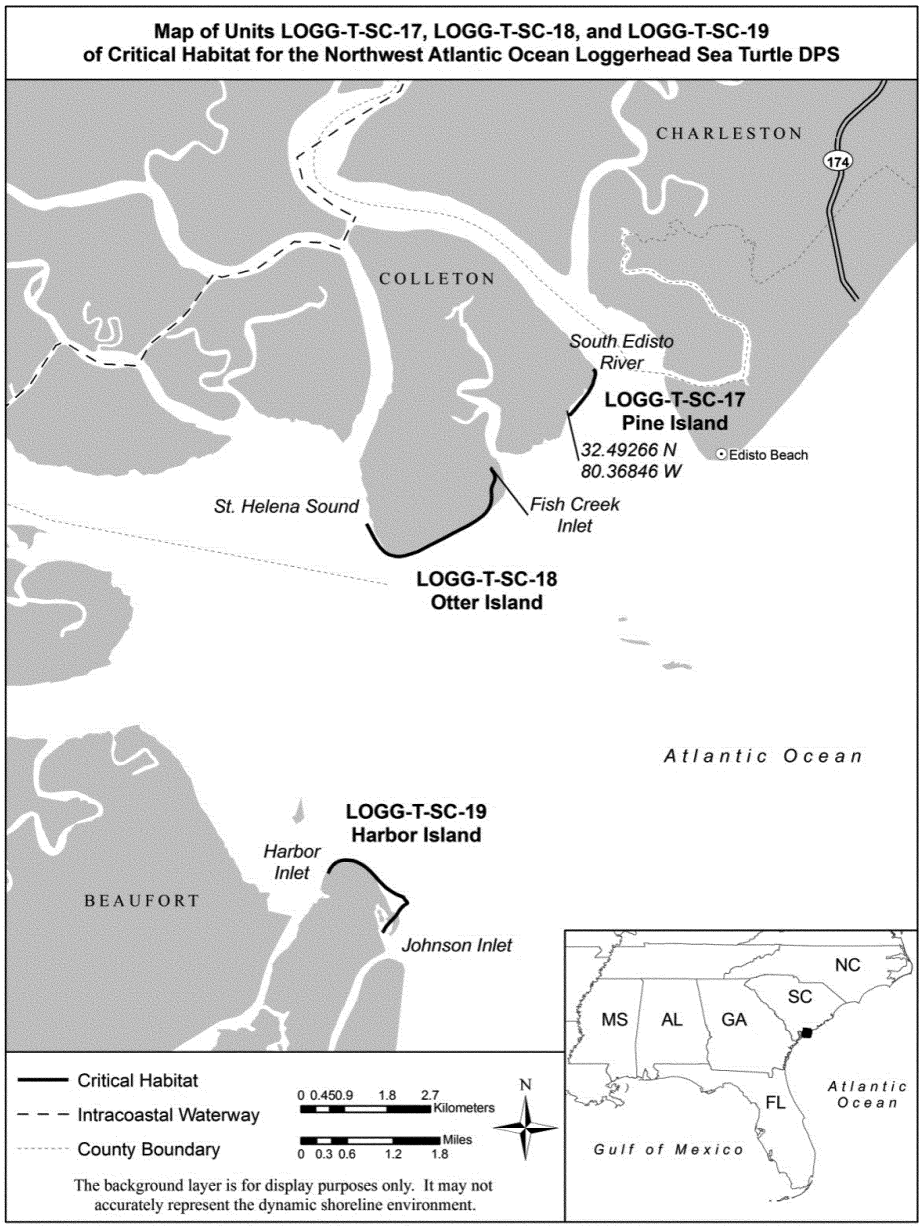
(A) LOGG–T–SC–17—Pine Island: This unit consists of 1.2 km (0.7 mi) of island shoreline

along the South Edisto Inlet and extends from South Edisto River to 32.49266 N, 80.36846 W (northern boundary of an unnamed inlet to Fish Creek).

(B) LOGG–T–SC–18—Otter Island: This unit consists of 4.1 km (2.5 mi) of island shoreline along the Atlantic Ocean and Saint Helena Sound and extends from Fish Creek Inlet to Saint Helena Sound.

(C) LOGG–T–SC–19—Harbor Island: This unit consists of 2.9 km (1.8 mi) of island shoreline along the Atlantic Ocean and Saint Helena Sound and extends from Harbor Inlet to Johnson Inlet.

(iii) Map of Units LOGG–T–SC–17, LOGG–T–SC–18, and LOGG–T–SC–19 follows:



(14)(i) Units:

(A) LOGG–T–SC–20—Little Capers Island, Beaufort County, South Carolina

(B) LOGG–T–SC–21—St. Phillips Island, Beaufort County, South Carolina

(C) LOGG–T–SC–22—Bay Point Island, Beaufort County, South Carolina

(ii) General descriptions of units:

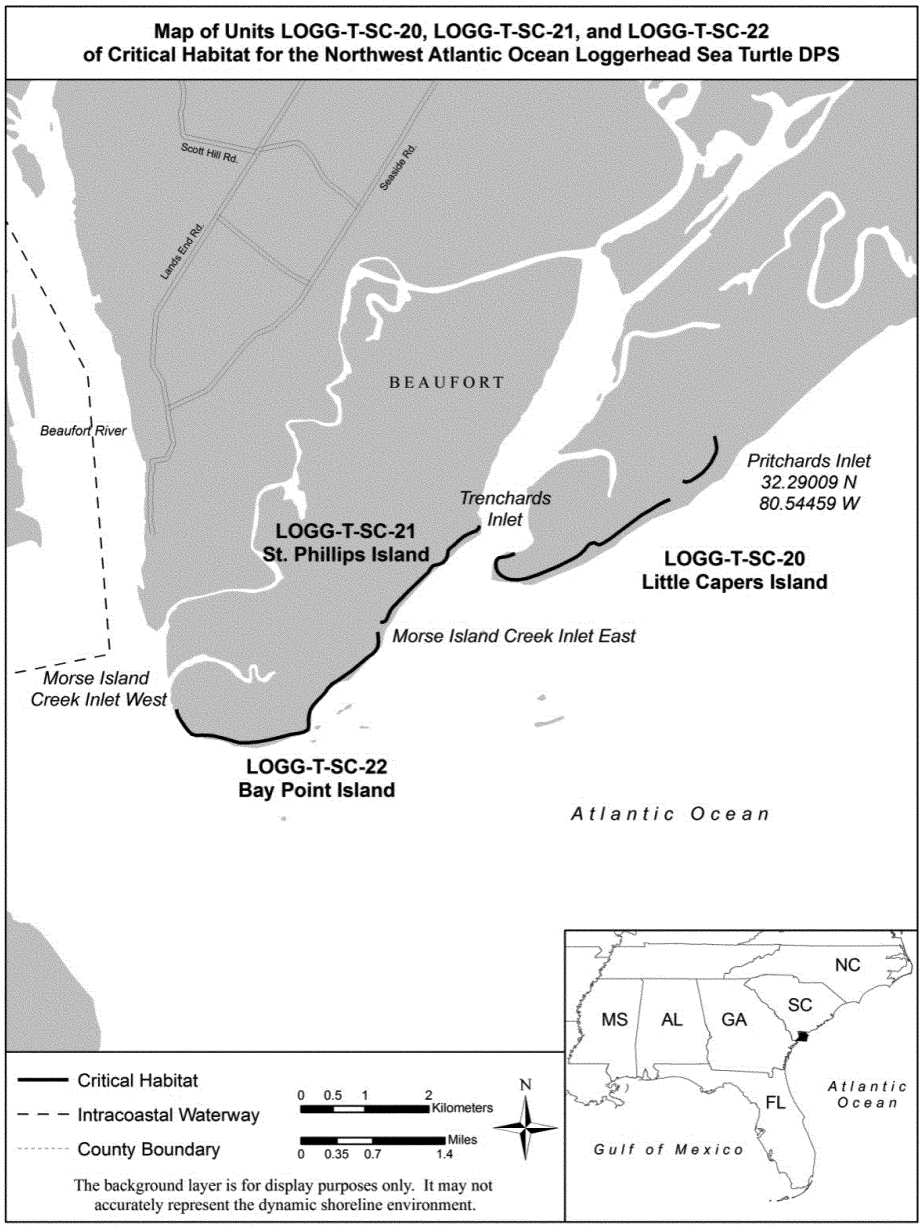
(A) LOGG–T–SC–20—Little Capers Island: This unit consists of 4.6 km (2.9 mi) of island

shoreline along the Atlantic Ocean and extends from ''Pritchards Inlet'' (there is some uncertainty about the true name of this water feature) located at 32.29009 N, 80.54459 W to Trenchards Inlet.

(B) LOGG–T–SC–21—St. Phillips Island: This unit consists of 2.3 km (1.4 mi) of island shoreline along the Atlantic Ocean and Trenchards Inlet and extends from Trenchards Inlet to Morse Island Creek Inlet East.

(C) LOGG–T–SC–22—Bay Point Island: This unit consists of 4.3 km (2.7 mi) of island shoreline along the Atlantic Ocean and Port Royal Sound and extends from Morse Island Creek Inlet East along the Atlantic Ocean shoreline to Morse Island Creek Inlet West along the Port Royal Sound shoreline.

(iii) Map of Units LOGG–T–SC–20, LOGG–T–SC–21, and LOGG–T–SC–22 follows:



(15)(i) Units:

(A) LOGG–T–GA–01—Little Tybee Island, Chatham County, Georgia.

(B) LOGG–T–GA–02—Wassaw Island, Chatham County, Georgia.

(C) LOGG–T–GA–03—Ossabaw Island, Chatham County, Georgia.

(D) LOGG–T–GA–04—St. Catherines Island, Liberty County, Georgia.

(ii) General descriptions of units:

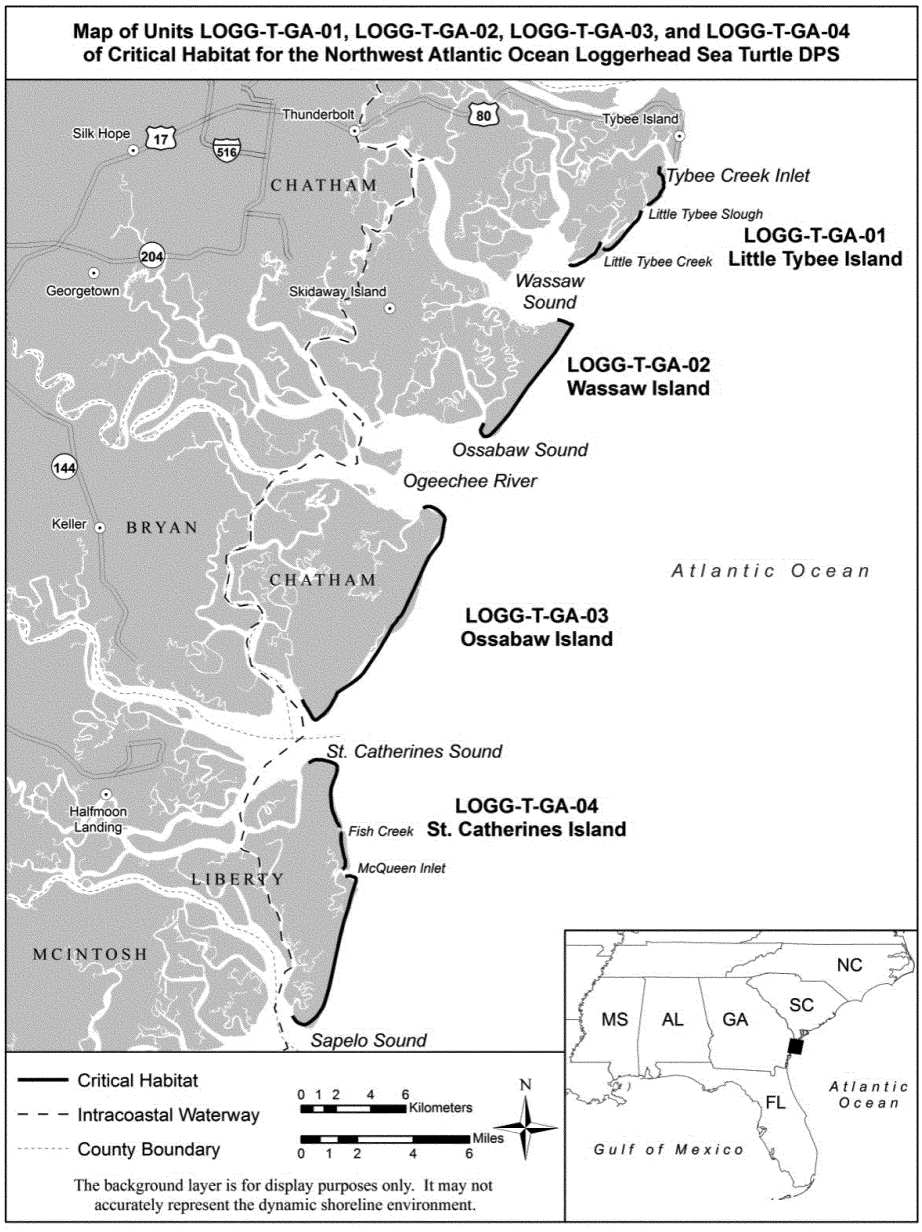
(A) LOGG–T–GA–01—Little Tybee Island: This unit consists of 8.6 km (5.3 mi) of island shoreline along the Atlantic Ocean and extends from Tybee Creek Inlet to Wassaw Sound.

(B) LOGG–T–GA–02—Wassaw Island: This unit consists of 10.1 km (6.3 mi) of island shoreline along the Atlantic Ocean and extends from Wassaw Sound to Ossabaw Sound.

(C) LOGG–T–GA–03—Ossabaw Island: This unit consists of 17.1 km (10.6 mi) of island shoreline along the Atlantic Ocean and extends from Ogeechee River to St. Catherines Sound.

(D) LOGG–T–GA–04—St. Catherines Island: This unit consists of 18.4 km (11.5 mi) of island shoreline along the Atlantic Ocean and extends from St. Catherines Sound to Sapelo Sound.

(iii) Map of Units LOGG–T–GA–01, LOGG–T–GA–02, LOGG–T–GA–03, and LOGG–T–GA–04 follows:



(16)(i) Units:

(A) LOGG–T–GA–05—Blackbeard Island, McIntosh County, Georgia.

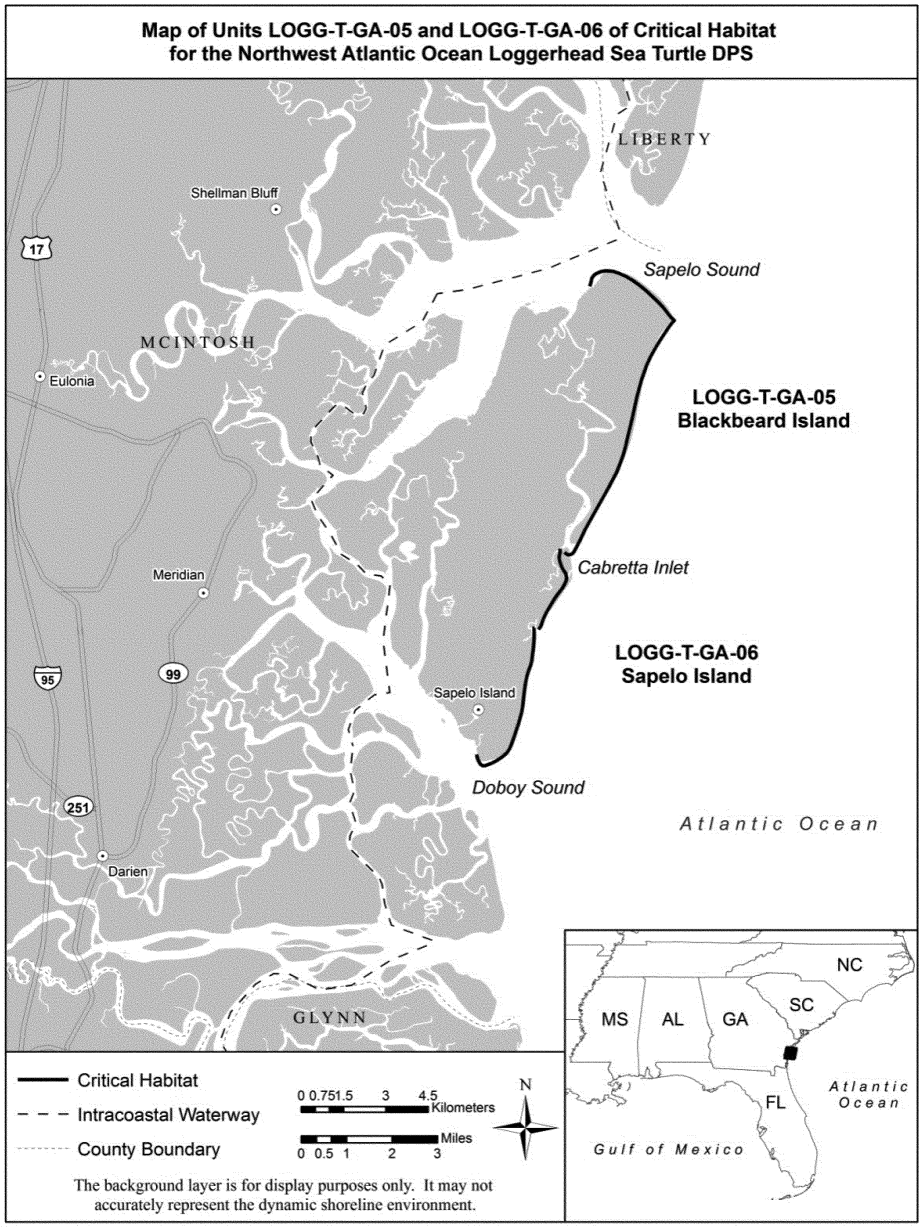
(B) LOGG–T–GA–06—Sapelo Island, McIntosh County, Georgia.

(ii) General descriptions of units:

(A) LOGG–T–GA–05—Blackbeard Island: This unit consists of 13.5 km (8.4 mi) of island shoreline along the Atlantic Ocean and extends from Sapelo Sound to Cabretta Inlet.

(B) LOGG–T–GA–06—Sapelo Island: This unit consists of 9.3 km (5.8 mi) of island shoreline along the Atlantic Ocean and extends from Cabretta Inlet to Doboy Sound.

(iii) Map of Units LOGG–T–GA–05 and LOGG–T–GA–06 follows:



(17)(i) Units:

(A) LOGG–T–GA–07—Little Cumberland Island, Camden County, Georgia.

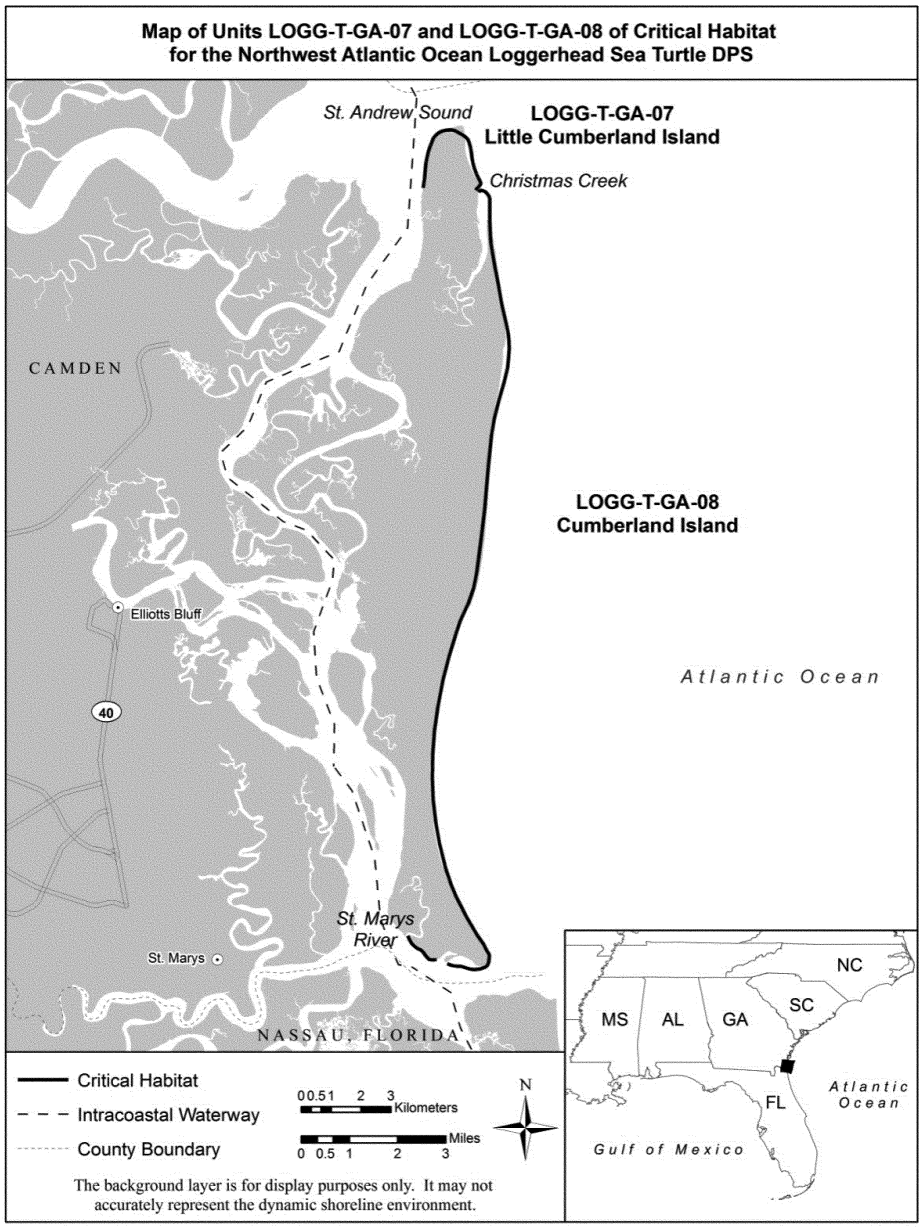
(B) LOGG–T–GA–08—Cumberland Island, Camden County, Georgia.

(ii) General descriptions of units:

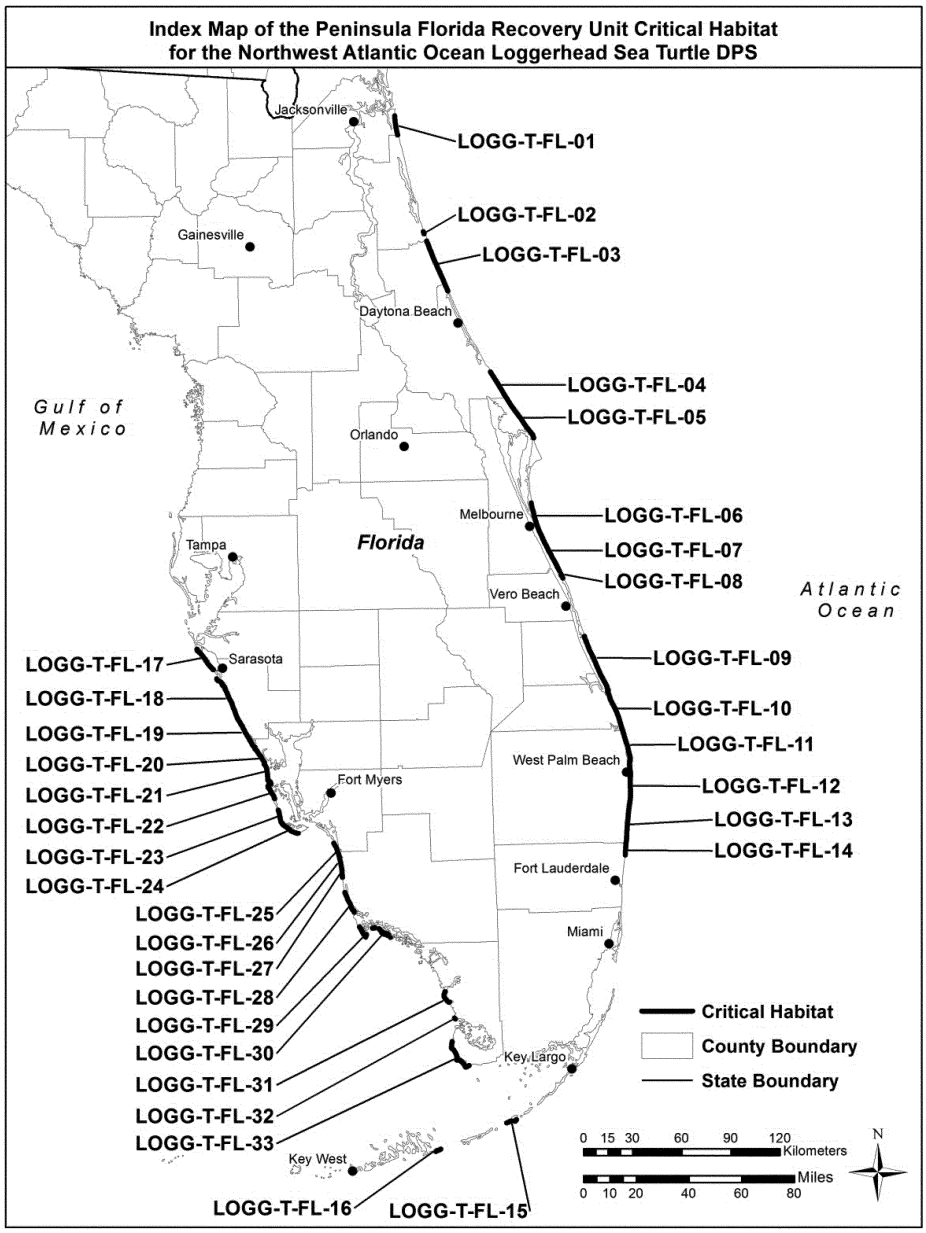
(A) LOGG–T–GA–07—Little Cumberland Island: This unit consists of 4.9 km (3.0 mi) of island shoreline along the Atlantic Ocean and extends from St. Andrew Sound to Christmas Creek.

(B) LOGG–T–GA–08—Cumberland Island: This unit consists of 29.7 km (18.4 mi) of island shoreline along the Atlantic Ocean and extends from Christmas Creek to St. Marys River.

(iii) Map of Units LOGG–T–GA–07 and LOGG–T–GA–08 follows:



(18) *Note:* Index map of critical habitat units in the Peninsular Florida Recovery Unit:



(19)(i) Units:

(A) LOGG–T–FL–01—South Duval County Beaches-Duval and St. Johns County line, Florida.

(B) LOGG–T–FL–02—Fort Matanzas National Monument, St. Johns County, Florida.

(C) LOGG–T–FL–03—River to Sea Preserve at Marineland-North Peninsula State Park, Flagler and Volusia Counties, Florida.

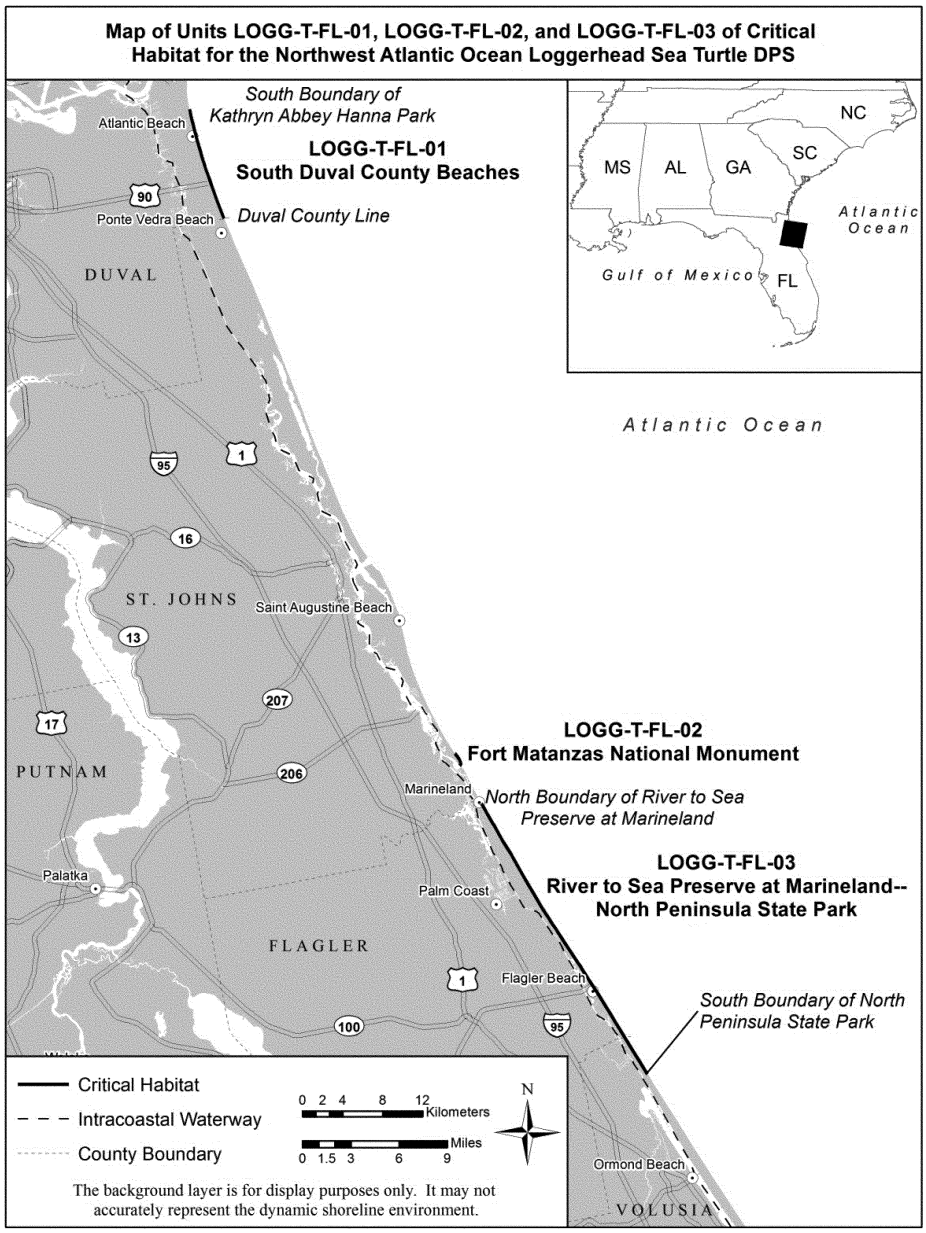
(ii) General descriptions of units:

(A) LOGG–T–FL–01—South Duval County Beaches-Duval and St. Johns County line: This unit consists of 11.5 km (7.1 mi) of island shoreline along the Atlantic Ocean and extends from the south boundary of Kathryn Abbey Hanna Park in Duval County to the boundary of the St. Johns County line.

(B) LOGG–T–FL–02—Fort Matanzas National Monument: This unit consists of 1.4 km (0.9 mi) of island shoreline along the Atlantic Ocean and includes the shoreline along Fort Matanzas National Monument in St. Johns County.

(C) LOGG–T–FL–03—River to Sea Preserve at Marineland-North Peninsula State Park: This unit consists of 31.8 km (19.8 mi) of island shoreline along the Atlantic Ocean and extends from the north boundary of the River to Sea Preserve at Marineland to the south boundary of North Peninsula State Park.

(iii) Map of Units LOGG–T–FL–01, LOGG–T–FL–02, and LOGG–T–FL–03 follows:



(20)(i) Units:

(A) LOGG–T–FL–04—Canaveral National Seashore North, Volusia County, Florida.

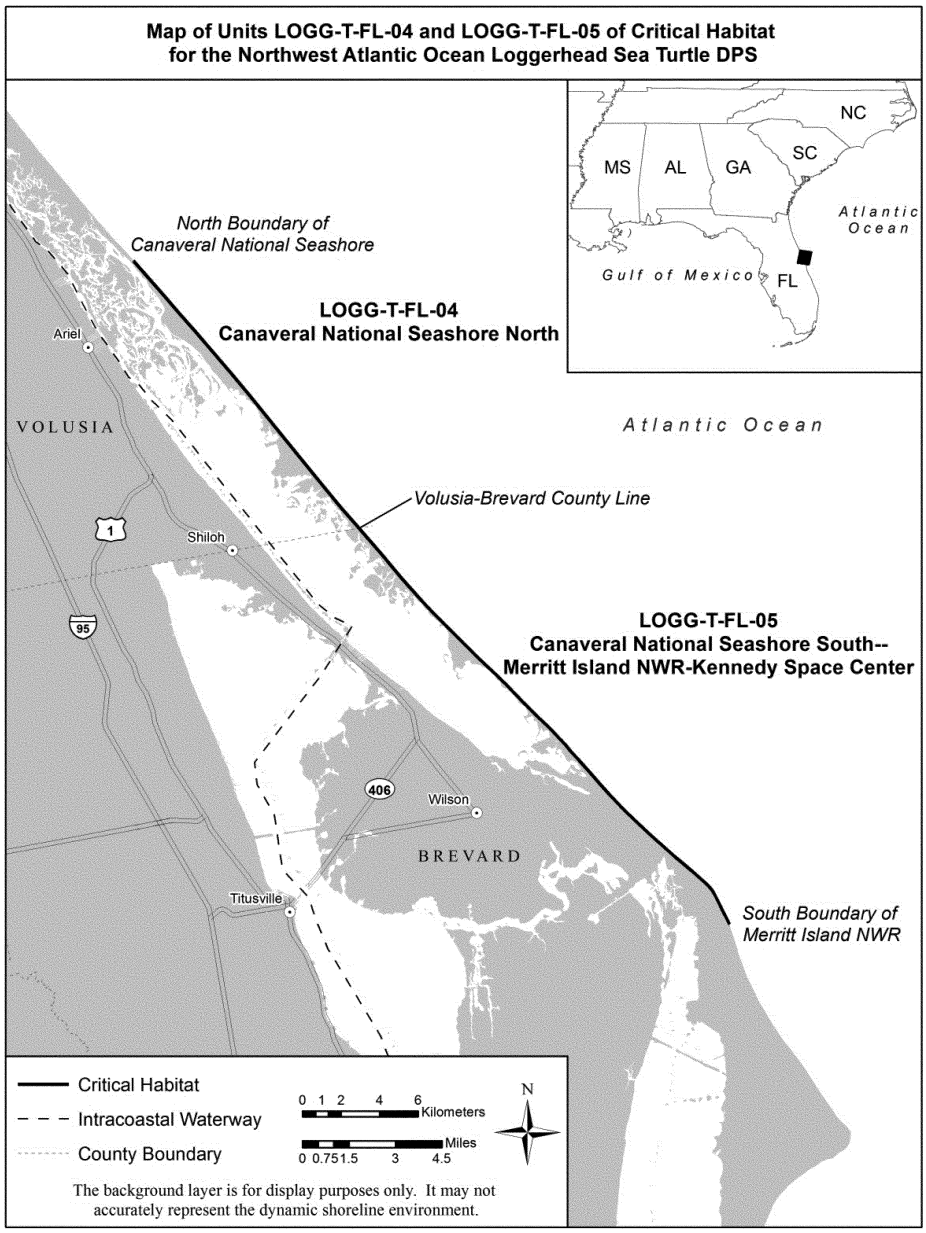
(B) LOGG–T–FL–05—Canaveral National Seashore South-Merritt Island NWR–Kennedy Space Center, Brevard County, Florida.

(ii) General descriptions of units:

(A) LOGG–T–FL–04—Canaveral National Seashore North: This unit consists of 18.2 km (11.3 mi) of island shoreline along the Atlantic Ocean and extends from the north boundary of Canaveral National Seashore to the Volusia-Brevard County line.

(B) LOGG–T–FL–05—Canaveral National Seashore South-Merritt Island NWR–Kennedy Space Center: This unit consists of 28.4 km (17.6 mi) of island shoreline along the Atlantic Ocean and extends from the Volusia-Brevard County line to the south boundary of Merritt Island NWR-Kennedy Space Center (Merritt Island NWR was established in 1963 as an overlay of the National Aeronautics and Space Administration's (NASA) John F. Kennedy Space Center).

(iii) Map of Units LOGG–T–FL–04 and LOGG–T–FL–05 follows:



(21)(i) Units:

(A) LOGG–T–FL–06—Central Brevard Beaches, Brevard County, Florida.

(B) LOGG–T–FL–07—South Brevard Beaches, Brevard County, Florida.

(C) LOGG–T–FL–08—Sebastian Inlet State Park-Archie Carr NWR South, Indian River County, Florida.

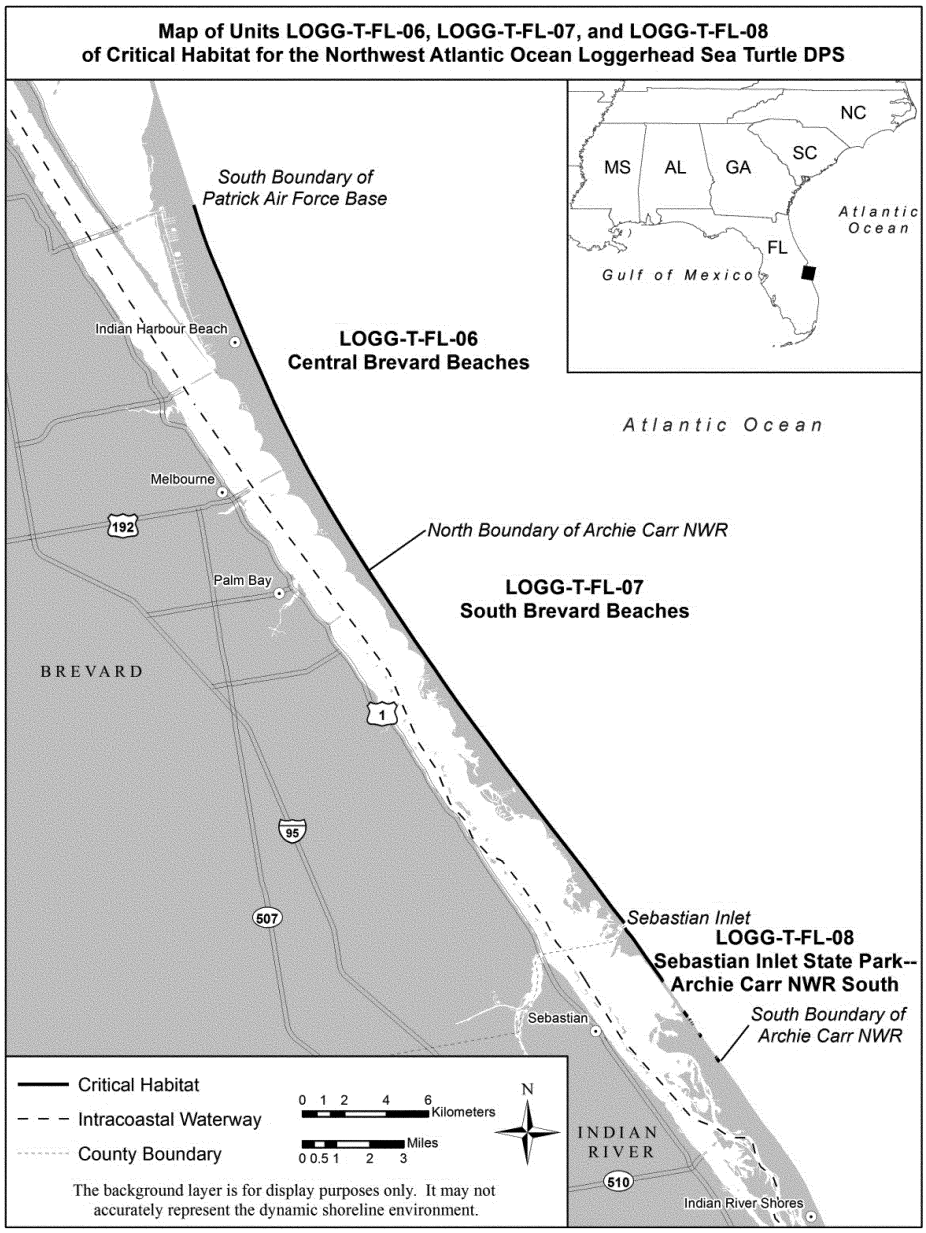
(ii) General descriptions of units:

(A) LOGG–T–FL–06—Central Brevard Beaches: This unit consists of 19.5 km (12.1 mi) of island shoreline along the Atlantic Ocean and extends from the south boundary of Patrick Air Force Base to the north boundary of Archie Carr National Wildlife Refuge (NWR).

(B) LOGG–T–FL–07—South Brevard Beaches: This unit consists of 20.8 km (12.9 mi) of island shoreline along the Atlantic Ocean and extends from the north boundary of Archie Carr NWR to Sebastian Inlet.

(C) LOGG–T–FL–08—Sebastian Inlet State Park-Archie Carr NWR South: This unit consists of 4.1 km (2.6 mi) of island shoreline along the Atlantic Ocean and extends from Sebastian Inlet State Park and parcels within the Archie Carr NWR.

(iii) Map of Units LOGG–T–FL–06, LOGG–T–FL–07, and LOGG–T–FL–08 follows:



(22)(i) Units:

(A) LOGG–T–FL–09—Fort Pierce Inlet–St. Lucie Inlet, St. Lucie and Martin Counties, Florida.

(B) LOGG–T–FL–10—St. Lucie Inlet-Jupiter Inlet, Martin and Palm Beach Counties, Florida.

(C) LOGG–T–FL–11—Jupiter Inlet-Lake Worth Inlet, Palm Beach County, Florida.

(D) LOGG–T–FL–12—Lake Worth Inlet-Boynton Inlet, Palm Beach County, Florida.

(E) LOGG–T–FL–13—Boynton Inlet-Boca Raton Inlet, Palm Beach County, Florida.

(F) LOGG–T–FL–14—Boca Raton Inlet-Hillsboro Inlet, Palm Beach and Broward Counties, Florida.

(ii) General descriptions of units:

(A) LOGG–T–FL–09—Fort Pierce Inlet-St. Lucie Inlet: This unit consists of 35.2 km (21.9 mi) of island shoreline along the Atlantic Ocean and extends from Fort Pierce Inlet to St. Lucie Inlet.

(B) LOGG–T–FL–10—St. Lucie Inlet-Jupiter Inlet: This unit consists of 24.9 km (15.5 mi) of island shoreline along the Atlantic Ocean and extends from St. Lucie Inlet to Jupiter Inlet.

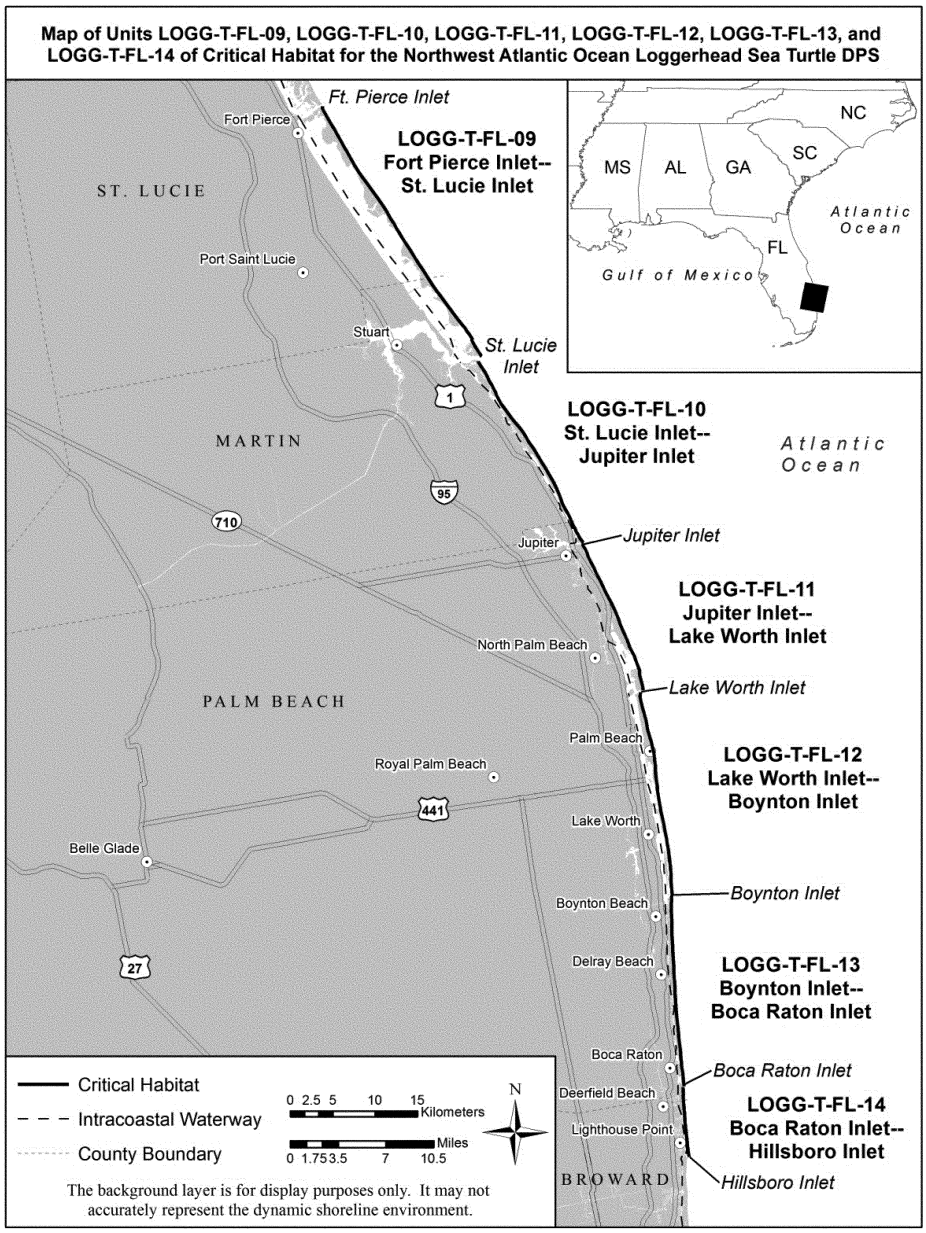
(C) LOGG–T–FL–11—Jupiter Inlet-Lake Worth Inlet: This unit consists of 18.8 km (11.7 mi) of island shoreline along the Atlantic Ocean and extends from Jupiter Inlet to Lake Worth Inlet.

(D) LOGG–T–FL–12—Lake Worth Inlet-Boynton Inlet: This unit consists of 24.3 km (15.1 mi) of island shoreline along the Atlantic Ocean and extends from Lake Worth Inlet to Boynton Inlet.

(E) LOGG–T–FL–13—Boynton Inlet-Boca Raton Inlet: This unit consists of 22.6 km (14.1 mi) of island shoreline along the Atlantic Ocean and extends from Boynton Inlet to Boca Raton Inlet.

(F) LOGG–T–FL–14—Boca Raton Inlet–Hillsboro Inlet: This unit consists of 8.3 km (5.2 mi) of island shoreline along the Atlantic Ocean and extends from Boca Raton Inlet to Hillsboro Inlet.

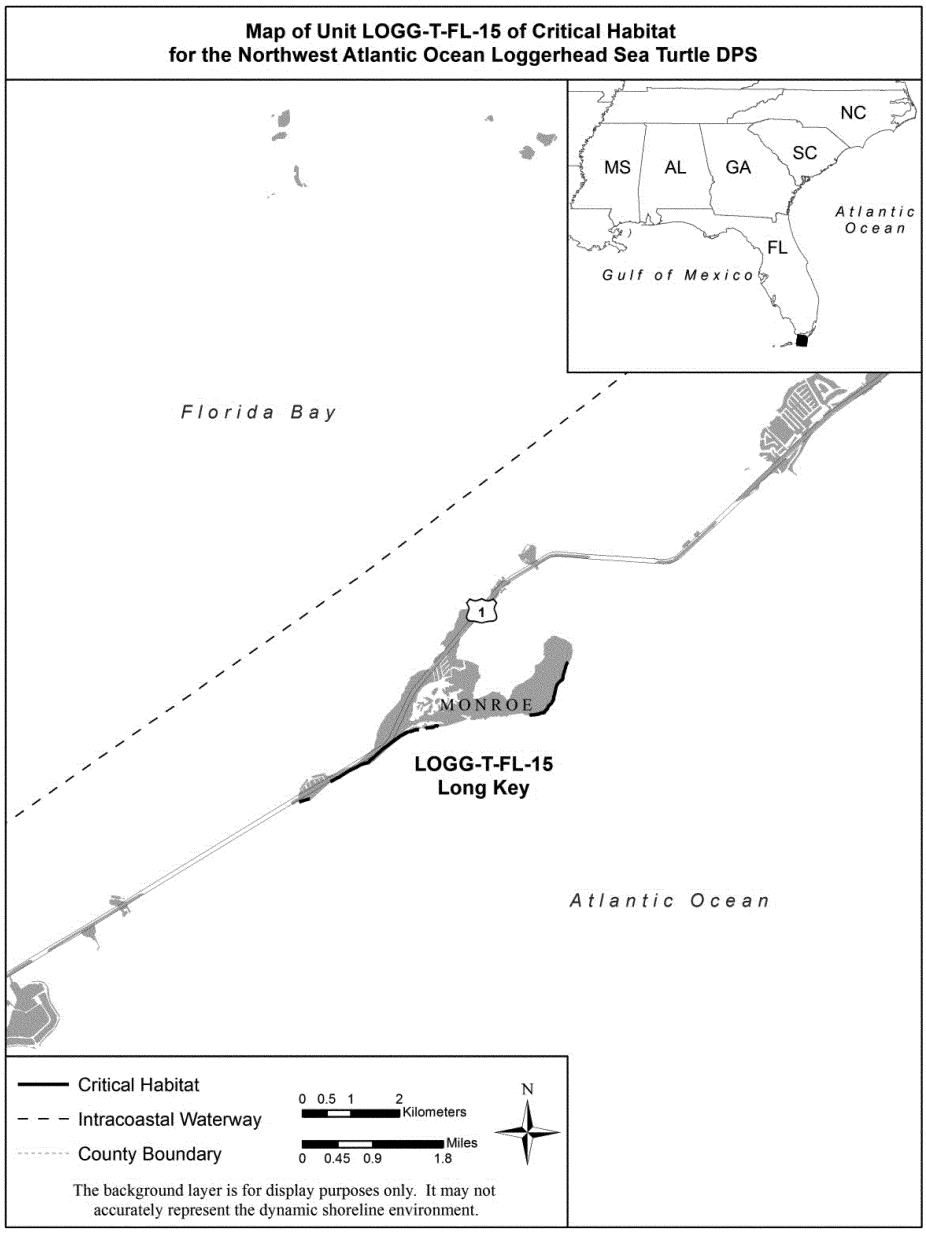
(iii) Map of Units LOGG–T–FL–09, LOGG–T–FL–10, LOGG–T–FL–11, LOGG–T–FL–12, LOGG–T–FL–13, and LOGG–T–FL–14 follows:



(23) Unit LOGG–T–FL–15—Long Key, Monroe County, Florida.

(i) *General description:* This unit consists of 4.2 km (2.6 mi) of island shoreline along the Atlantic Ocean and extends from the natural channel between Fiesta Key and Long Key to the natural channel between Long Key and Conch Key.

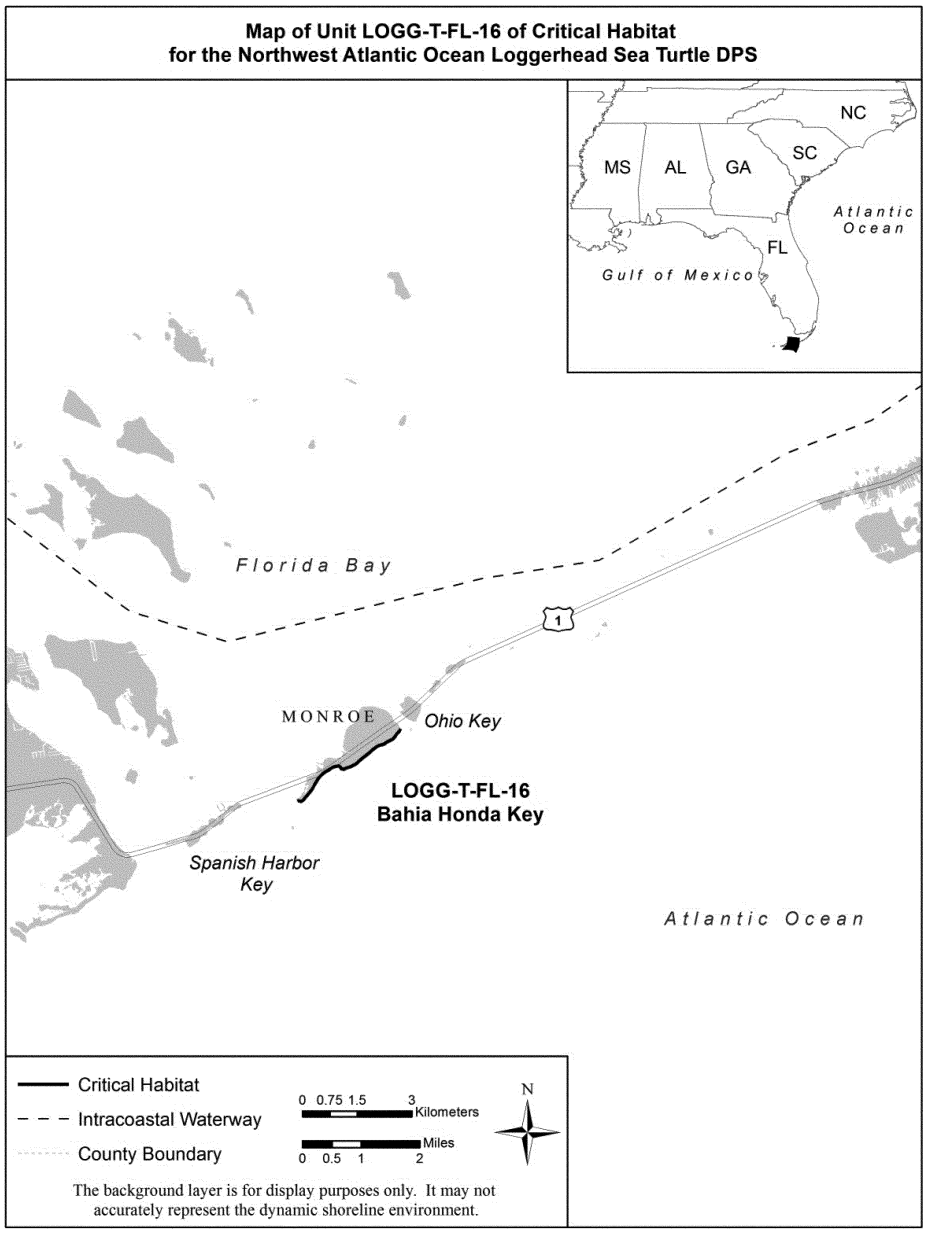
(ii) Map of Unit LOGG–T–FL–15 follows:



(24) Unit LOGG–T–FL–16—Bahia Honda Key, Monroe County, Florida.

(i) *General description:* This unit consists of 3.7 km (2.3 mi) of island shoreline along the Atlantic Ocean and extends from the natural channel between Ohio Key and Bahia Honda Key to the natural channel between Bahia Honda Key and Spanish Harbor Key.

(ii) Map of Unit LOGG–T–FL–16 follows:



(25)(i) Units:

(A) LOGG–T–FL–17—Longboat Key, Manatee and Sarasota Counties, Florida.

(B) LOGG–T–FL–18—Siesta and Casey Keys, Sarasota County, Florida.

(C) LOGG–T–FL–19—Venice Beaches and Manasota Key, Sarasota and Charlotte Counties, Florida.

(D) LOGG–T–FL–20—Knight, Don Pedro, and Little Gasparilla Islands, Charlotte County, Florida.

(ii) General descriptions of units:

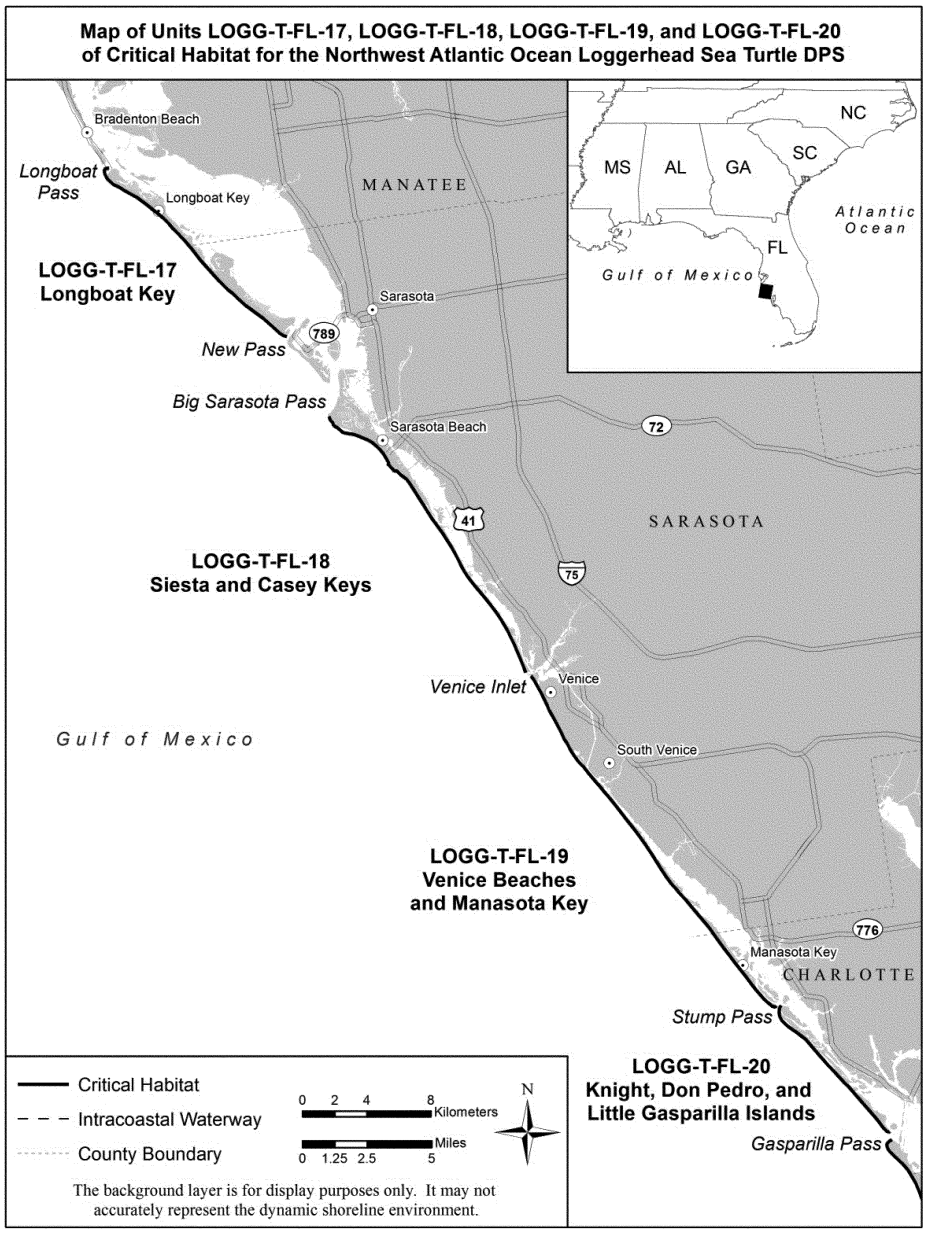
(A) LOGG–T–FL–17—Longboat Key: This unit consists of 16.0 km (9.9 mi) of island shoreline along the Gulf of Mexico and extends from Longboat Pass to New Pass.

(B) LOGG–T–FL–18—Siesta and Casey Keys: This unit consists of 20.8 km (13.0 mi) of island shoreline along the Gulf of Mexico and extends from Big Sarasota Pass to Venice Inlet.

(C) LOGG–T–FL–19—Venice Beaches and Manasota Key: This unit consists of 26.0 km (16.1 mi) of island shoreline along the Gulf of Mexico and extends from Venice Inlet to Stump Pass.

(D) LOGG–T–FL–20—Knight, Don Pedro, and Little Gasparilla Islands: This unit consists of 10.8 km (6.7 mi) of island shoreline along the Gulf of Mexico and extends from Stump Pass to Gasparilla Pass.

(iii) Map of Units LOGG–T–FL–17, LOGG–T–FL–18, LOGG–T–FL–19, and LOGG–T–FL–20 follows:



(26)(i) Units:

(A) LOGG–T–FL–21—Gasparilla Island, Charlotte and Lee Counties, Florida.

(B) LOGG–T–FL–22—Cayo Costa, Lee County, Florida.

(C) LOGG–T–FL–23—Captiva Island, Lee County, Florida.

(D) LOGG–T–FL–24—Sanibel Island West, Lee County, Florida.

(ii) General descriptions of units:

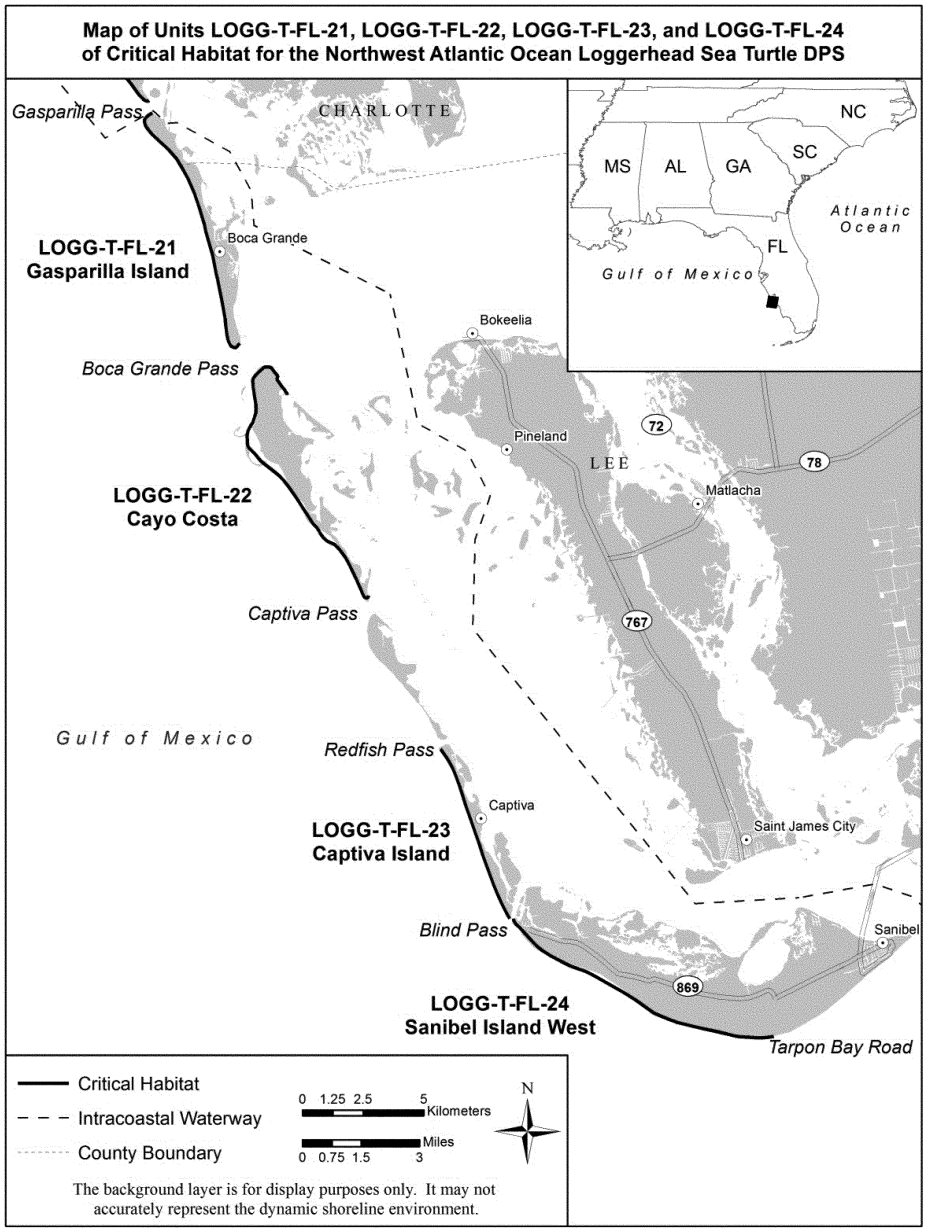
(A) LOGG–T–FL–21—Gasparilla Island: This unit consists of 11.2 km (6.9 mi) of island shoreline along the Gulf of Mexico and extends from Gasparilla Pass to Boca Grande Pass.

(B) LOGG–T–FL–22—Cayo Costa: This unit consists of 13.5 km (8.4 mi) of island shoreline along the Gulf of Mexico and extends from Boca Grande Pass to Captiva Pass.

(C) LOGG–T–FL–23—Captiva Island: This unit consists of 7.6 km (4.7 mi) of island shoreline along the Gulf of Mexico and extends from Redfish Pass to Blind Pass.

(D) LOGG–T–FL–24—Sanibel Island West: This unit consists of 12.2 km (7.6 mi) of island shoreline along the Gulf of Mexico and extends from Blind Pass to Tarpon Bay Road.

(iii) Map of Units LOGG–T–FL–21, LOGG–T–FL–22, LOGG–T–FL–23, and LOGG–T–FL–24 follows:



(27)(i) Units:

(A) LOGG–T–FL–25—Little Hickory Island, Lee and Collier Counties, Florida.

(B) LOGG–T–FL–26—Wiggins Pass-Clam Pass, Collier County, Florida.

(C) LOGG–T–FL–27—Clam Pass-Doctors Pass, Collier County, Florida.

(D) LOGG–T–FL–28—Keewaydin Island and Sea Oat Island, Collier County, Florida.

(ii) General descriptions of units:

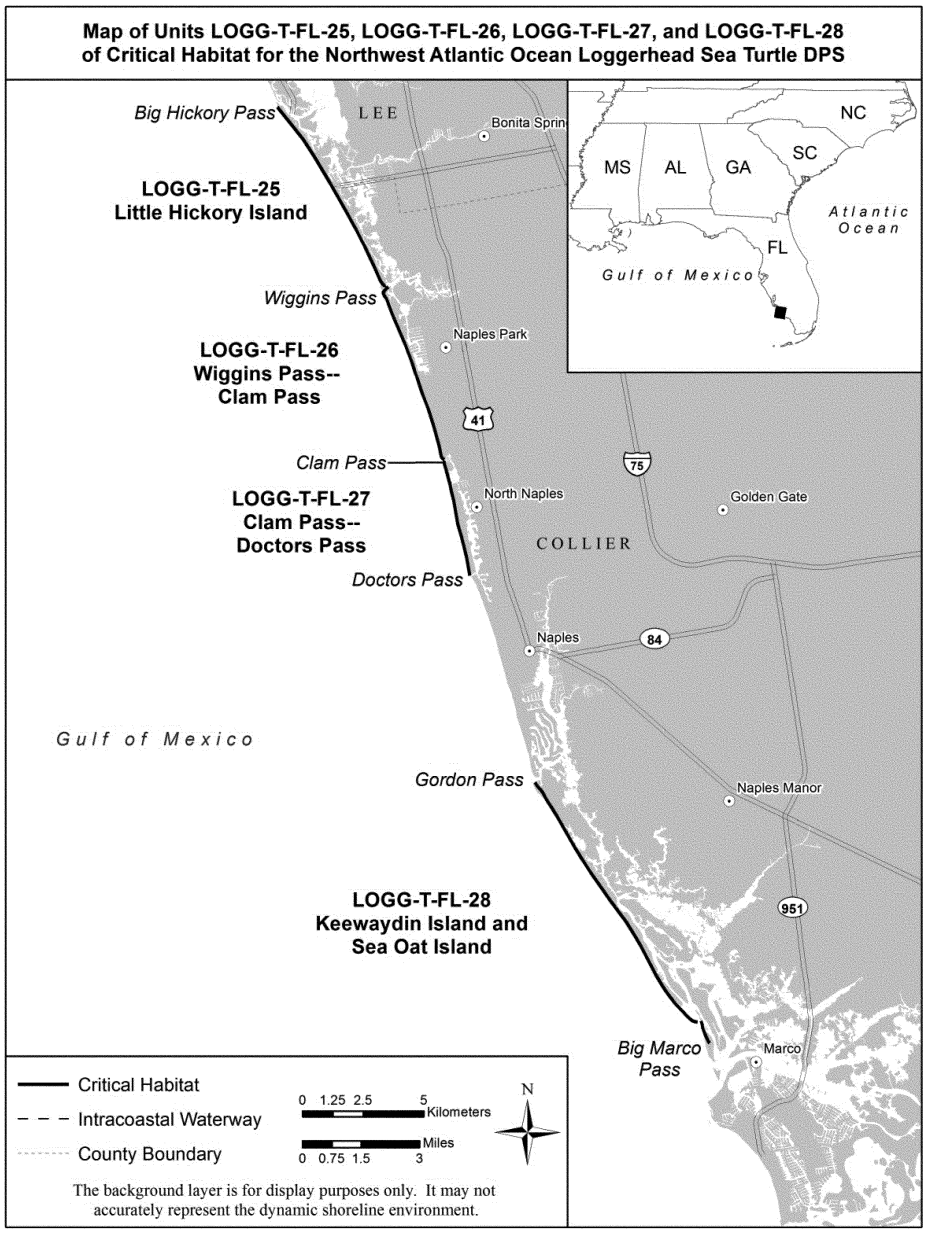
(A) LOGG–T–FL–25—Little Hickory Island: This unit consists of 8.7 km (5.4 mi) of island shoreline along the Gulf of Mexico and extends from Big Hickory Pass to Wiggins Pass.

(B) LOGG–T–FL–26—Wiggins Pass-Clam Pass: This unit consists of 7.7 km (4.8 mi) of mainland shoreline along the Gulf of Mexico and extends from Wiggins Pass to Clam Pass.

(C) LOGG–T–FL–27—Clam Pass-Doctors Pass: This unit consists of 4.9 km (3.0 mi) of island shoreline along the Gulf of Mexico and extends from Clam Pass to Doctors Pass.

(D) LOGG–T–FL–28—Keewaydin Island and Sea Oat Island: This unit consists of 13.1 km (8.1 mi) of island shoreline along the Gulf of Mexico and extends from Gordon Pass to Big Marco Pass.

(iii) Map of Units LOGG–T–FL–25, LOGG–T–FL–26, LOGG–T–FL–27, and LOGG–T–FL–28 follows:



(28)(i) Units:

(A) LOGG–T–FL–29—Cape Romano, Collier County, Florida.

(B) LOGG–T–FL–30—Ten Thousand Islands North, Collier County, Florida.

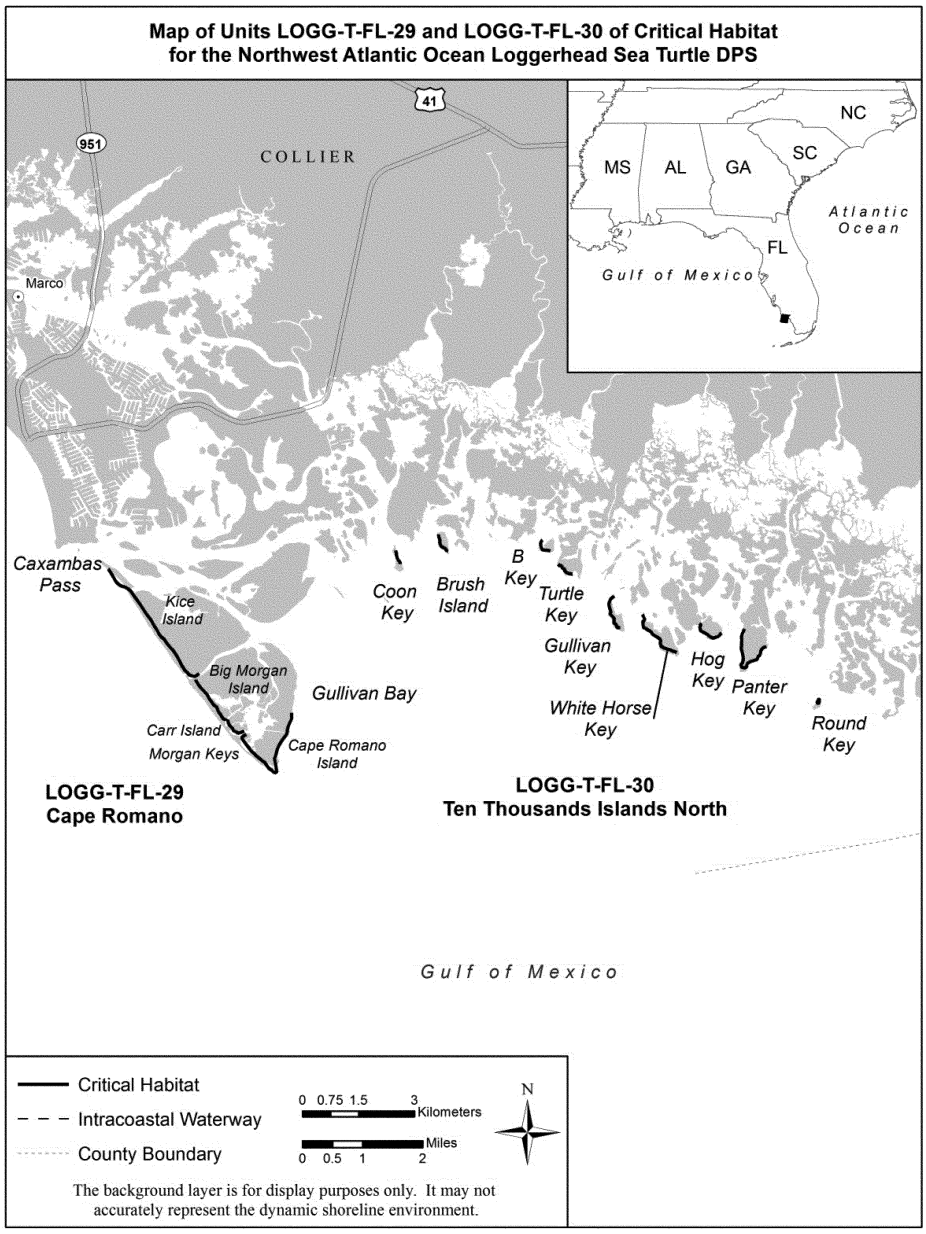
(ii) General descriptions of units:

(A) LOGG–T–FL–29—Cape Romano: This unit consists of 9.2 km (5.7 mi) of island shoreline along the Gulf of Mexico and

Gullivan Bay and extends from Caxambas Pass to Gullivan Bay.

(B) LOGG–T–FL–30—Ten Thousand Islands North: This unit consists of 7.8 km (4.9 mi) of island shoreline along the Gulf of Mexico and within Gullivan Bay.

(iii) Map of Units LOGG–T–FL–29 and LOGG–T–FL–30 follows:



(29)(i) Units:

(A) LOGG–T–FL–31—Highland Beach, Monroe County, Florida.

(B) LOGG–T–FL–32—Graveyard Creek-Shark Point, Monroe County, Florida.

(C) LOGG–T–FL–33—Cape Sable, Monroe County, Florida.

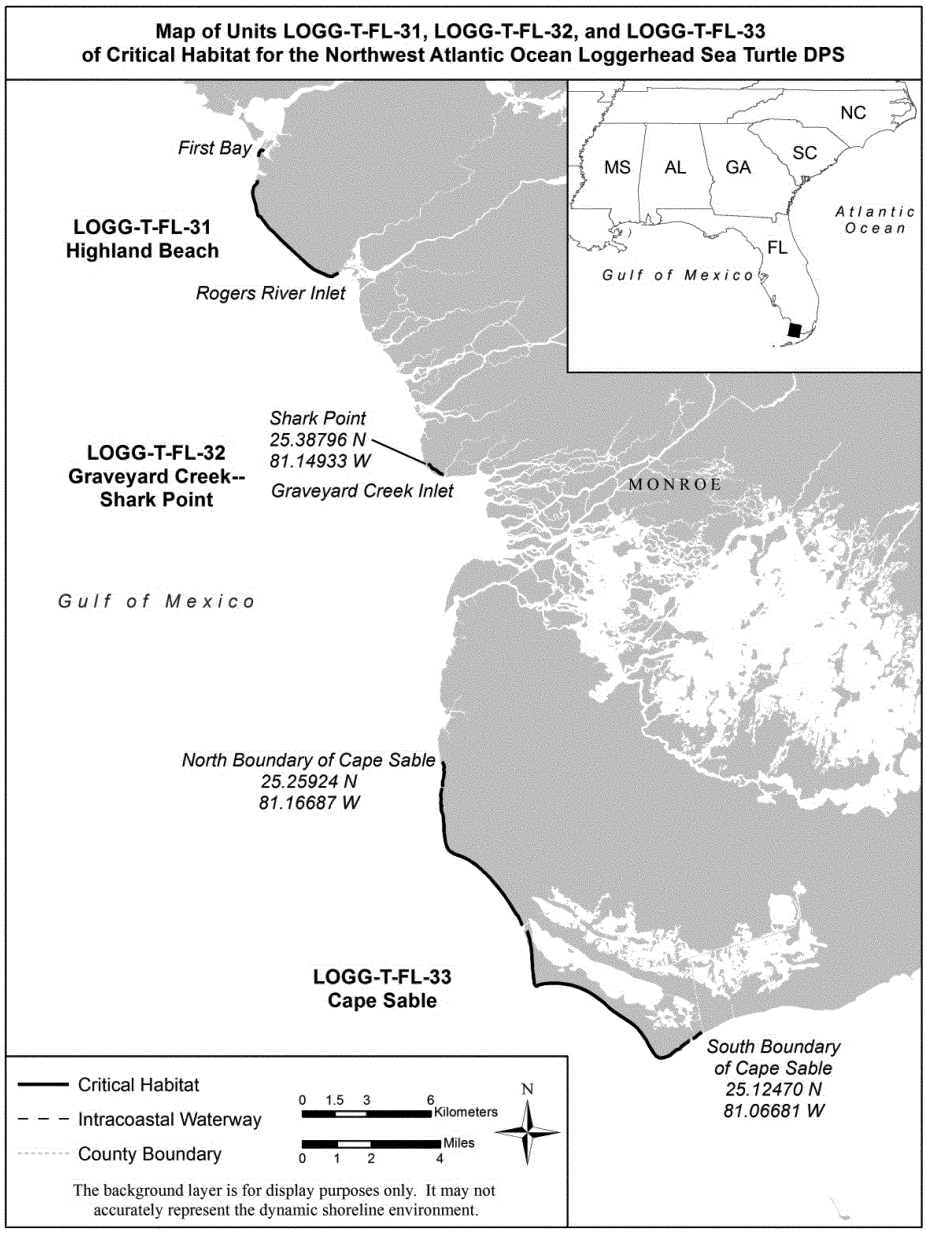
(ii) General descriptions of units:

(A) LOGG–T–FL–31—Highland Beach: This unit consists of 7.2 km (4.5 mi) of island (Key McLaughlin) shoreline along the Gulf of Mexico and extends from First Bay to Rogers River Inlet.

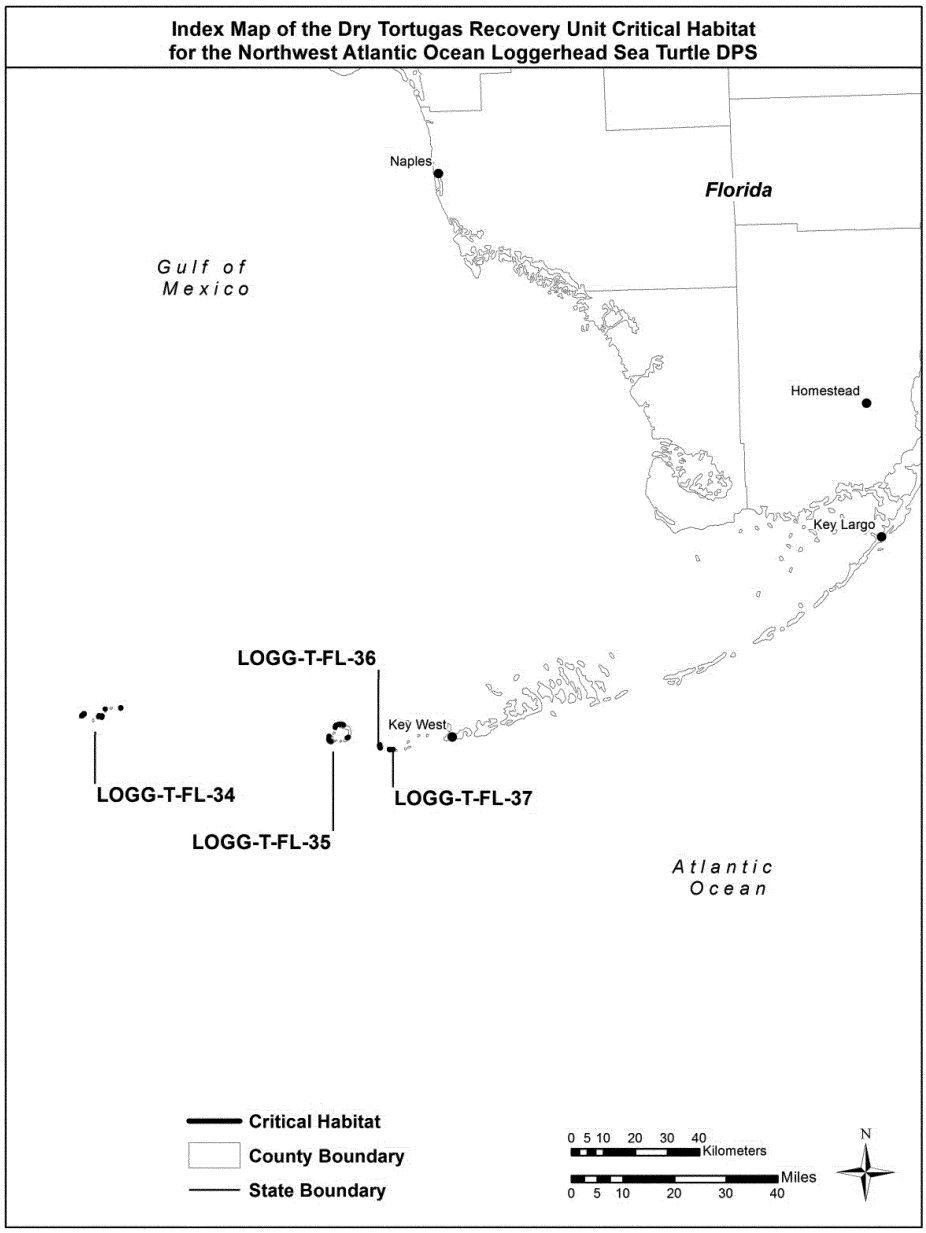
(B) LOGG–T–FL–32—Graveyard Creek-Shark Point: This unit consists of 0.9 km (0.6 mi) of mainland shoreline along the Gulf of Mexico and extends from Shark Point (25.38796 N, 81.14933 W) to Graveyard Creek Inlet.

(C) LOGG–T–FL–33—Cape Sable: This unit consists of 21.3 km (13.2 mi) of mainland shoreline along the Gulf of Mexico and extends from the north boundary of Cape Sable at 25.25924 N, 81.16687 W to the south boundary of Cape Sable at 25.12470 N, 81.06681 W.

(iii) Map of Units LOGG–T–FL–31, LOGG–T–FL–32, and LOGG–T–FL–33 follows:



(30) *Note:* Index map of critical habitat units in the Dry Tortugas Recovery Unit:



(31)(i) Units:

(A) LOGG–T–FL–34—Dry Tortugas, Monroe County, Florida.

(B) LOGG–T–FL–35—Marquesas Keys, Monroe County, Florida.

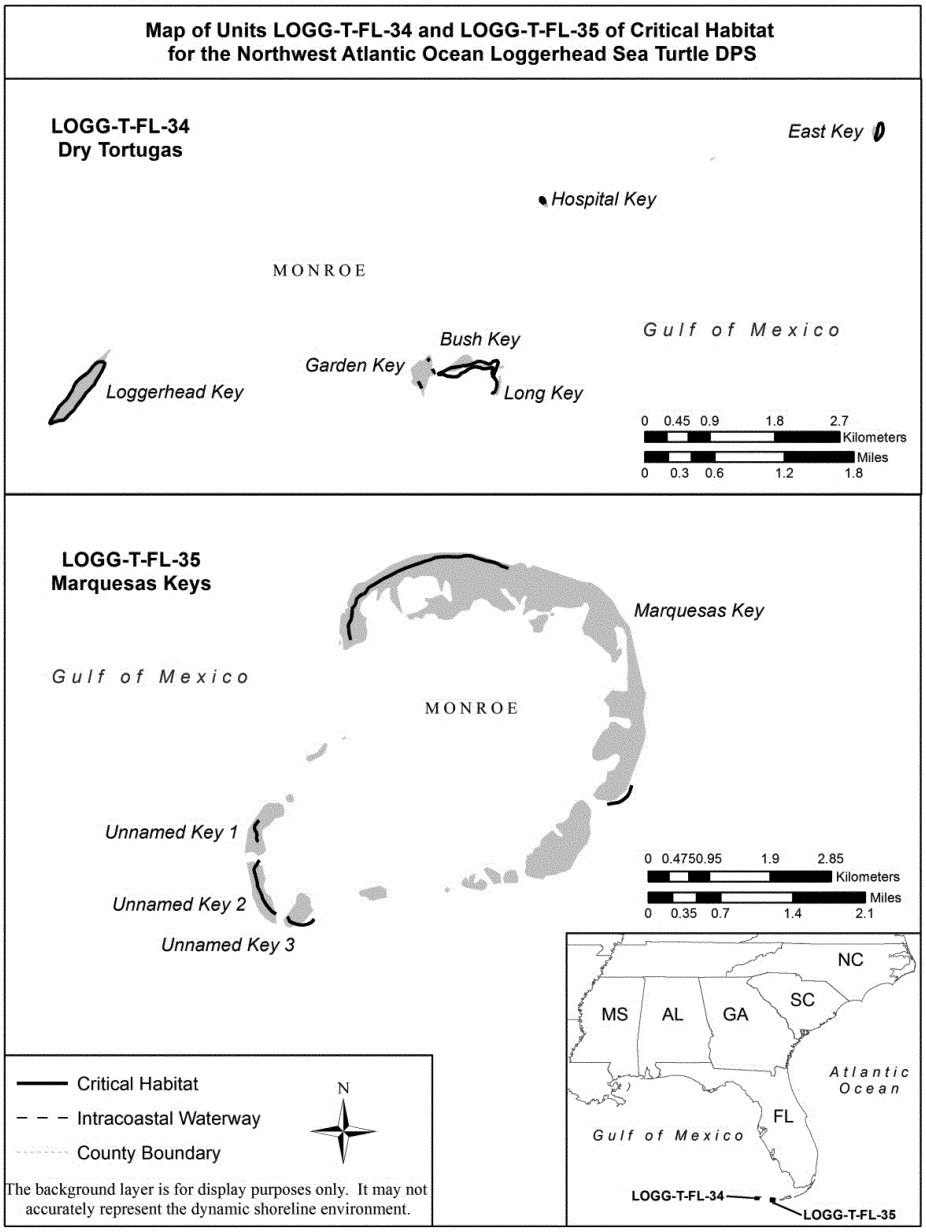
(ii) General descriptions of units:

(A) LOGG–T–FL–34—Dry Tortugas: This unit consists of 5.7 km (3.6 mi) of shoreline along the Gulf of Mexico and consists of Loggerhead Key, Garden Key, Bush Key, Long

Key, Hospital Key, and East Key located in the Dry Tortugas about 108 km (67 mi) west of Key West.

(B) LOGG–T–FL–35—Marquesas Keys: This unit consists of 5.6 km (3.5 mi) of shoreline along the Gulf of Mexico and consists of Marquesas Key, Unnamed Key 1, Unnamed Key 2, and Unnamed Key 3 located about 29.3 km (18.2 mi) west of Key West.

(iii) Map of Units LOGG–T–FL–34 and LOGG–T–FL–35 follows:



(32)(i) Units:

(A) LOGG–T–FL–36—Boca Grande Key, Monroe County, Florida.

(B) LOGG–T–FL–37—Woman Key, Monroe County, Florida.

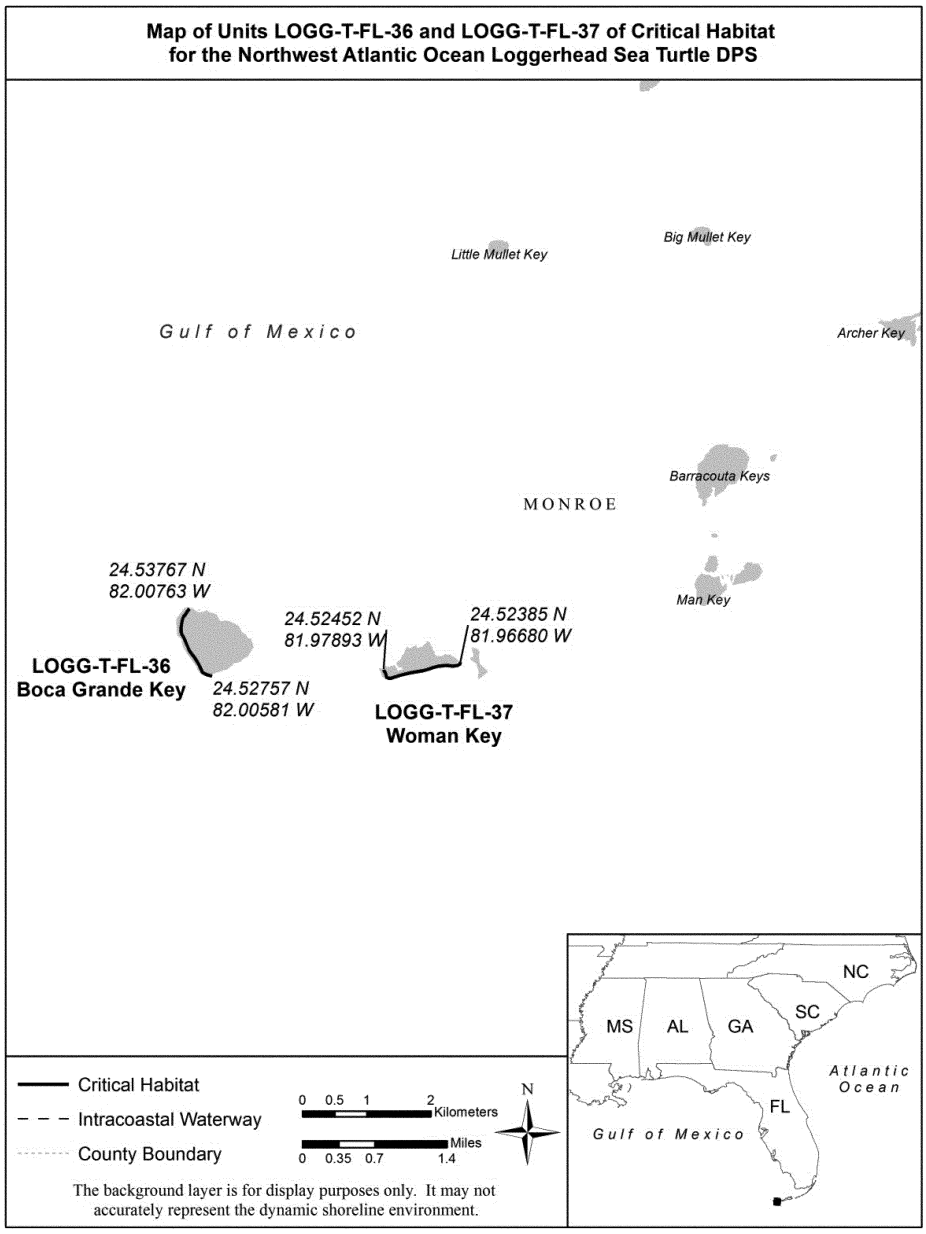
(ii) General descriptions of units:

(A) LOGG–T–FL–36—Boca Grande Key: This unit consists of 1.3 km (0.8 mi) of island shoreline along the Gulf of Mexico and extends from 24.53767 N, 82.00763 W (at the

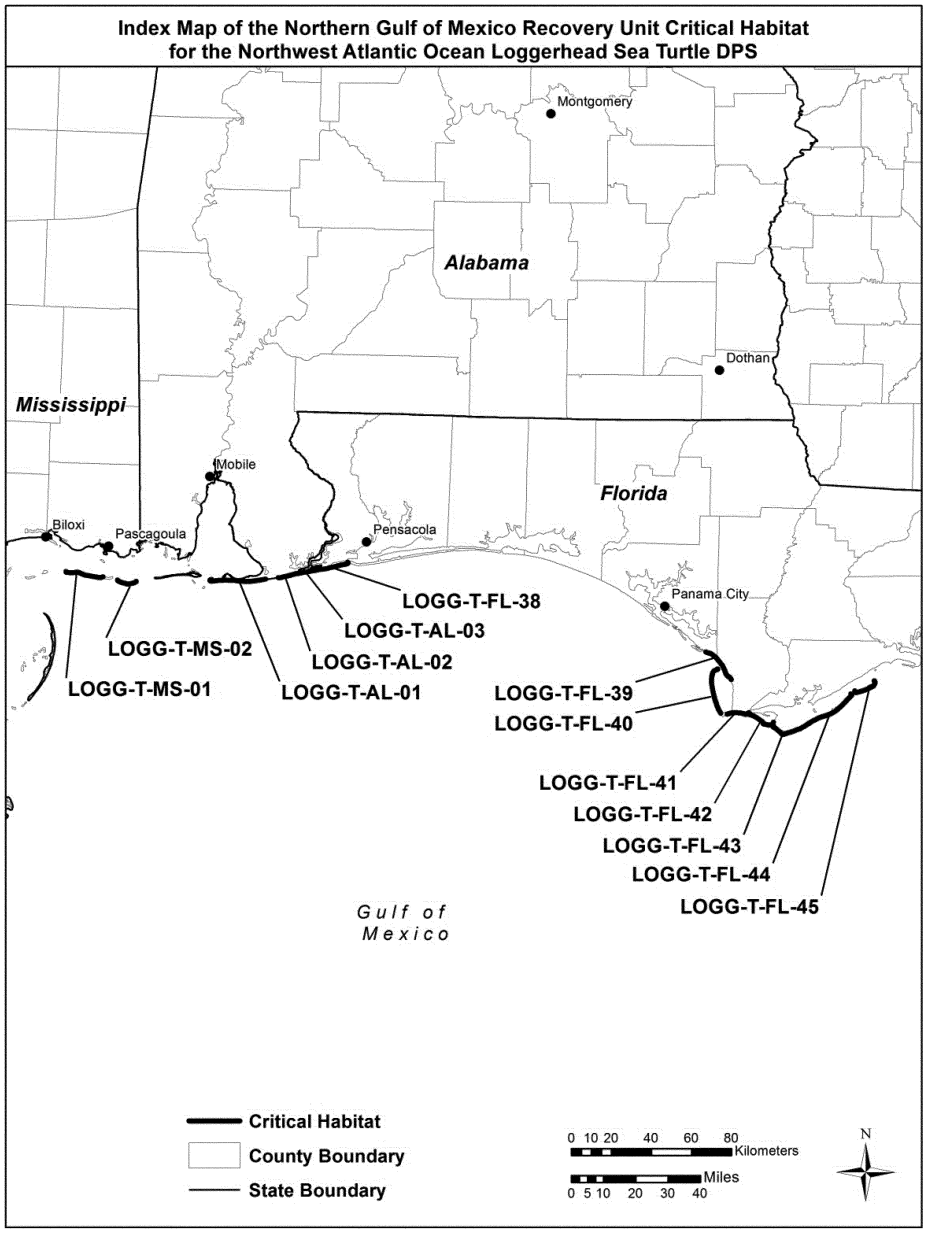
northern end of the key) to 24.52757 N, 82.00581 W (at the southern end of the key).

(B) LOGG–T–FL–37—Woman Key: This unit consists of 1.3 km (0.8 mi) of island shoreline along the Gulf of Mexico and extends from 24.52452 N, 81.97893 N (at the western end of the key) to 24.52385 N, 81.96680 W (at the eastern end of the key).

(iii) Map of Units LOGG–T–FL–36 and LOGG–T–FL–37 follows:



(33) *Note:* Index map of critical habitat units in the Northern Gulf of Mexico Recovery Unit:



(34)(i) Units:

(A) LOGG–T–MS–01—Horn Island, Jackson County, Mississippi.

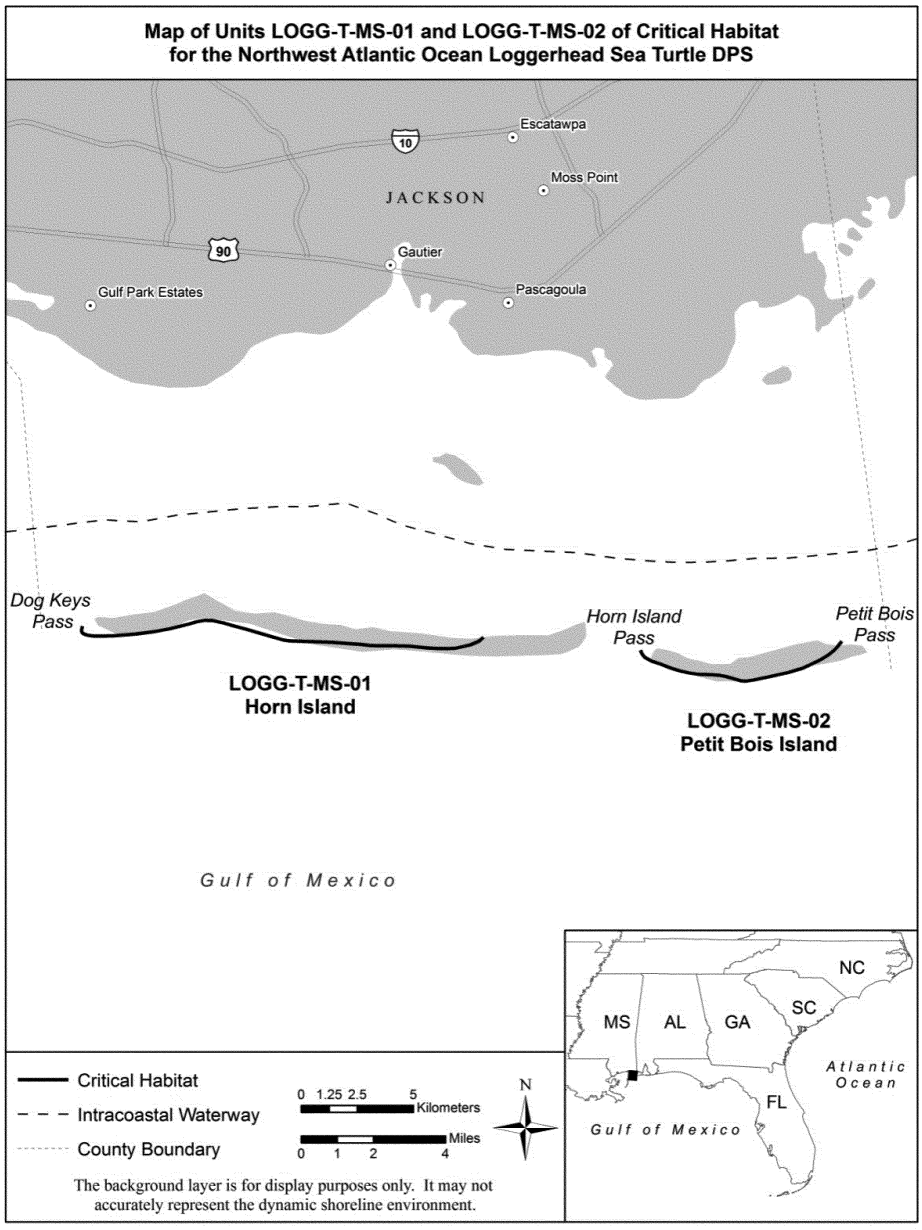
(B) LOGG–T–MS–02—Petit Bois Island, Jackson County, Mississippi.

(ii) General descriptions of units:

(A) LOGG–T–MS–01—Horn Island: This unit consists of 18.6 km (11.5 mi) of island shoreline along the Gulf of Mexico and extends from Dog Keys Pass to the easternmost point of the ocean facing island shore.

(B) LOGG–T–MS–02—Petit Bois Island: This unit consists of 9.8 km (6.1 mi) of island shoreline along the Gulf of Mexico and extends from Horn Island Pass to Petit Bois Pass.

(iii) Map of Units LOGG–T–MS–01 and LOGG–T–MS–02 follows:



(35)(i) Units:

(A) LOGG–T–AL–01—Mobile Bay-Little Lagoon Pass, Baldwin County, Alabama.

(B) LOGG–T–AL–02—Gulf State Park-Perdido Pass, Baldwin County, Alabama.

(C) LOGG–T–AL–03—Perdido Pass-Florida-Alabama line, Baldwin County, Alabama.

(ii) General descriptions of units:

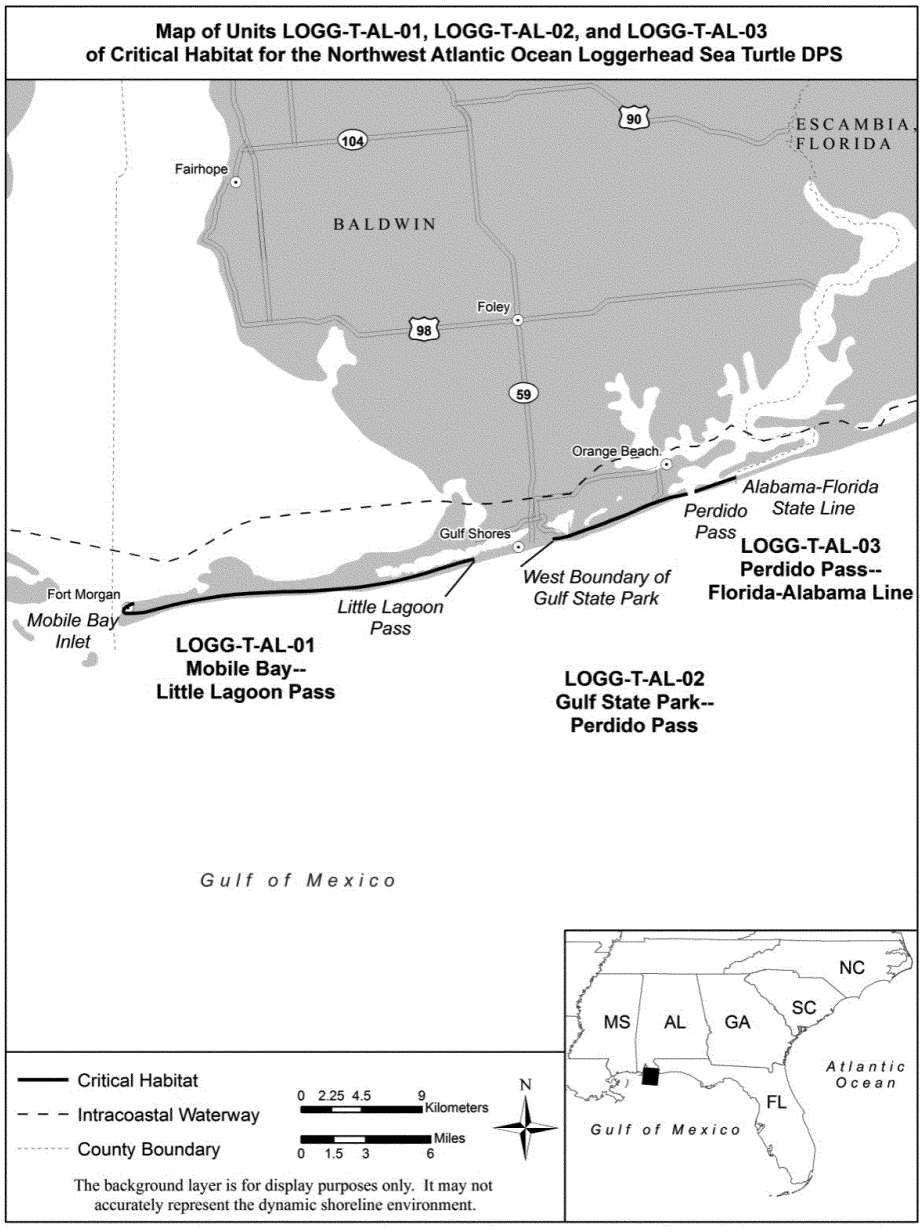
(A) LOGG–T–AL–01—Mobile Bay-Little Lagoon Pass: This unit consists of 28.0 km (17.4

mi) of island shoreline along the Gulf of Mexico and extends from Mobile Bay Inlet to Little Lagoon Pass.

(B) LOGG–T–AL–02—Gulf State Park-Perdido Pass: This unit consists of 10.7 km (6.7 mi) of island shoreline along the Gulf of Mexico and extends from the west boundary of Gulf State Park to Perdido Pass.

(C) LOGG–T–AL–03—Perdido Pass-Florida-Alabama line: This unit consists of 3.3 km (2.0 mi) of island shoreline along the Gulf of Mexico and extends from Perdido Pass to the Alabama-Florida border.

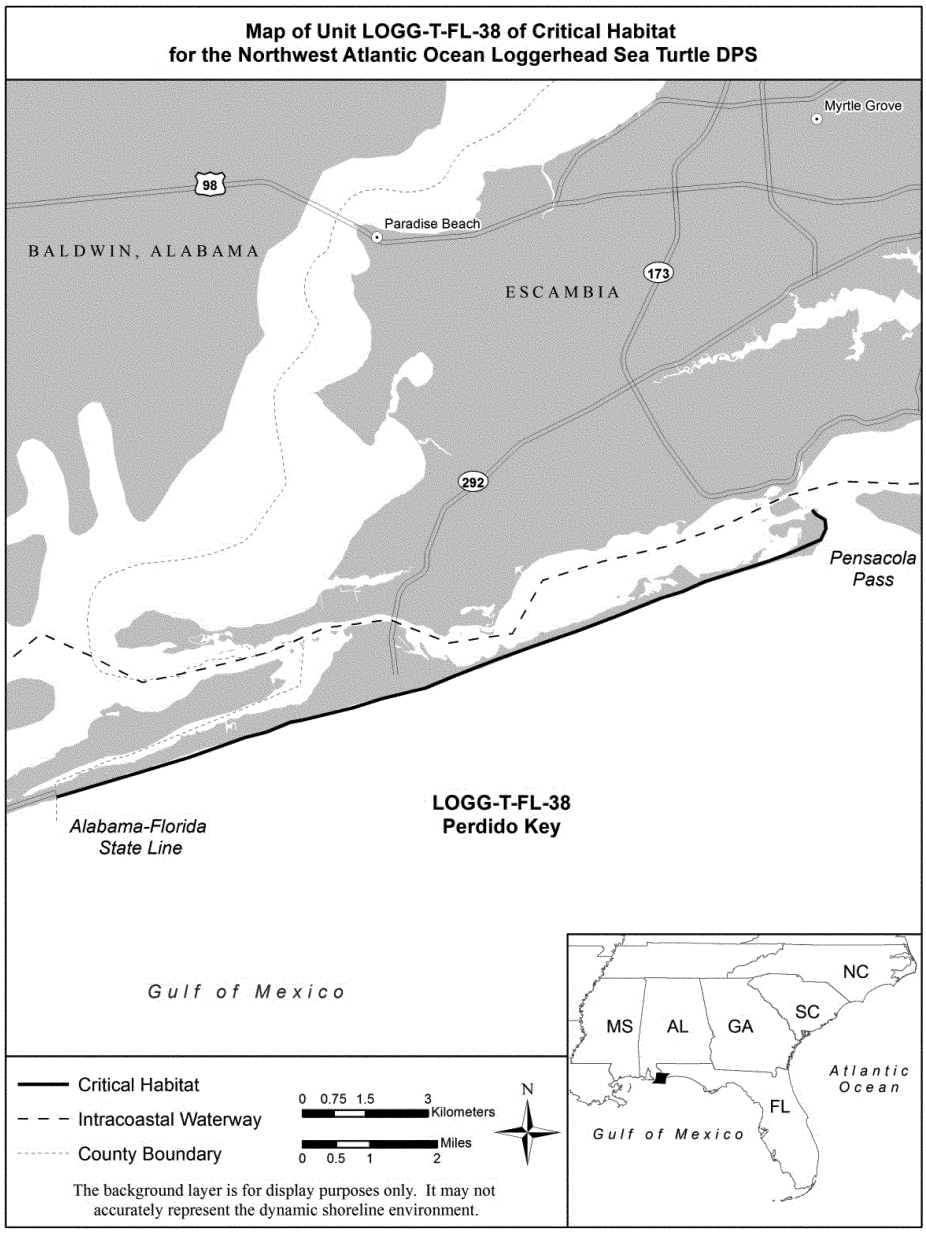
(iii) Map of Units LOGG–T–AL–01, LOGG–T–AL–02, and LOGG–T–AL–03 follows:



(36) Unit LOGG–T–FL–38—Perdido Key, Escambia County, Florida.

(i) *General description:* This unit consists of 20.2 km (12.6 mi) of island shoreline along the Gulf of Mexico and extends from the Alabama-Florida border to Pensacola Pass.

(ii) Map of Unit LOGG–T–FL–38 follows:



(37)(i) Units:

(A) LOGG–T–FL–39—Mexico Beach and St. Joe Beach, Bay and Gulf Counties, Florida.

(B) LOGG–T–FL–40—St. Joseph Peninsula, Gulf County, Florida.

(C) LOGG–T–FL–41—Cape San Blas, Gulf County, Florida.

(ii) General descriptions of units:

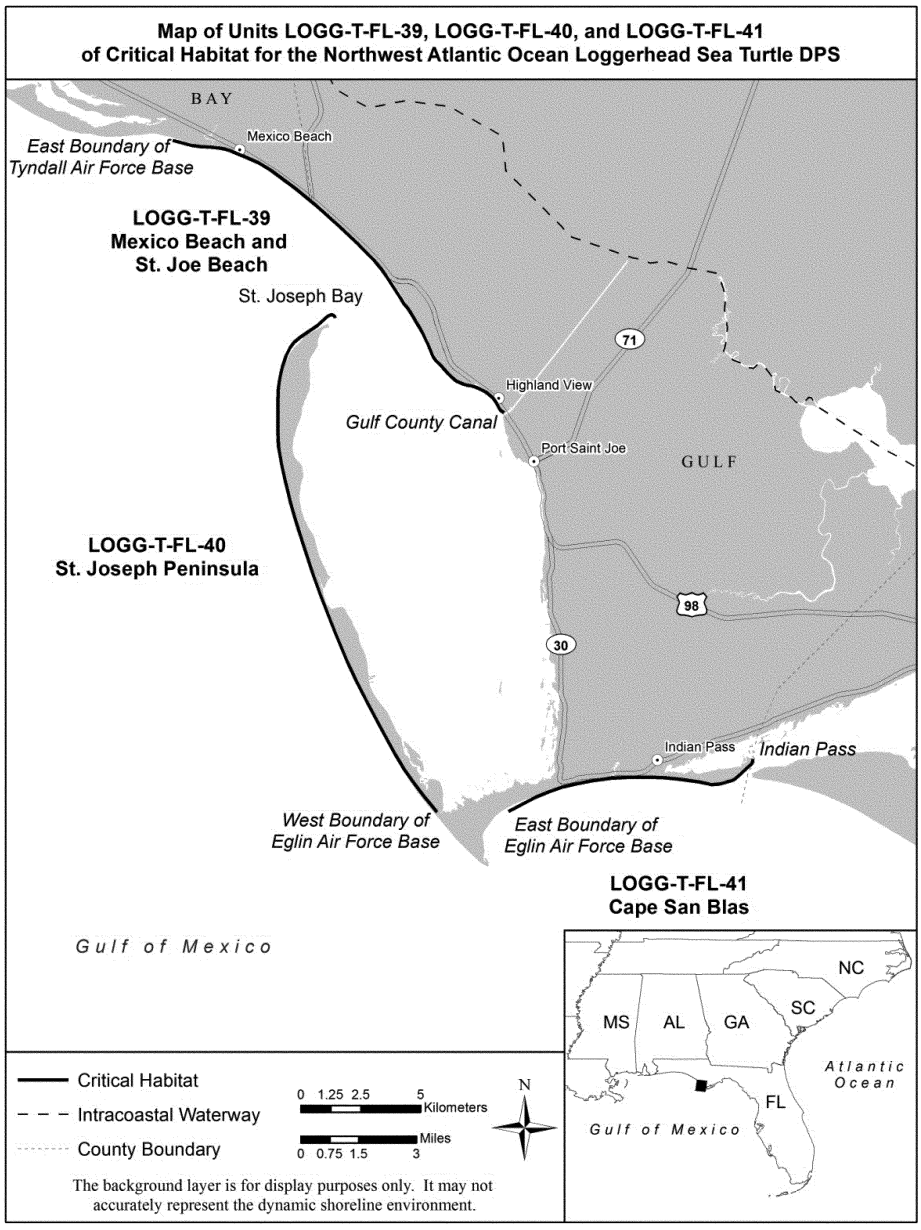
(A) LOGG–T–FL–39—Mexico Beach and St. Joe Beach: This unit consists of 18.7 km (11.7

mi) of mainland shoreline along the Gulf of Mexico and extends from the eastern boundary of Tyndall Air Force Base to Gulf County Canal in St. Joseph Bay.

(B) LOGG–T–FL–40—St. Joseph Peninsula: This unit consists of 23.5 km (14.6 mi) of a spit shoreline along the Gulf of Mexico and extends from St. Joseph Bay to the west boundary of Eglin Air Force Base.

(C) LOGG–T–FL–41—Cape San Blas: This unit consists of 11.0 km (6.8 mi) of mainland and spit shoreline along the Gulf of Mexico and extends from the east boundary of Eglin Air Force Base to Indian Pass.

(iii) Map of Units LOGG–T–FL–39, LOGG–T–FL–40, and LOGG–T–FL–41 follows:



(38)(i) Units:

(A) LOGG–T–FL–42—St. Vincent Island, Franklin County, Florida.

(B) LOGG–T–FL–43—Little St. George Island, Franklin County, Florida.

(C) LOGG–T–FL–44—St. George Island, Franklin County, Florida.

(D) LOGG–T–FL–45—Dog Island, Franklin County, Florida.

(ii) General descriptions of units:

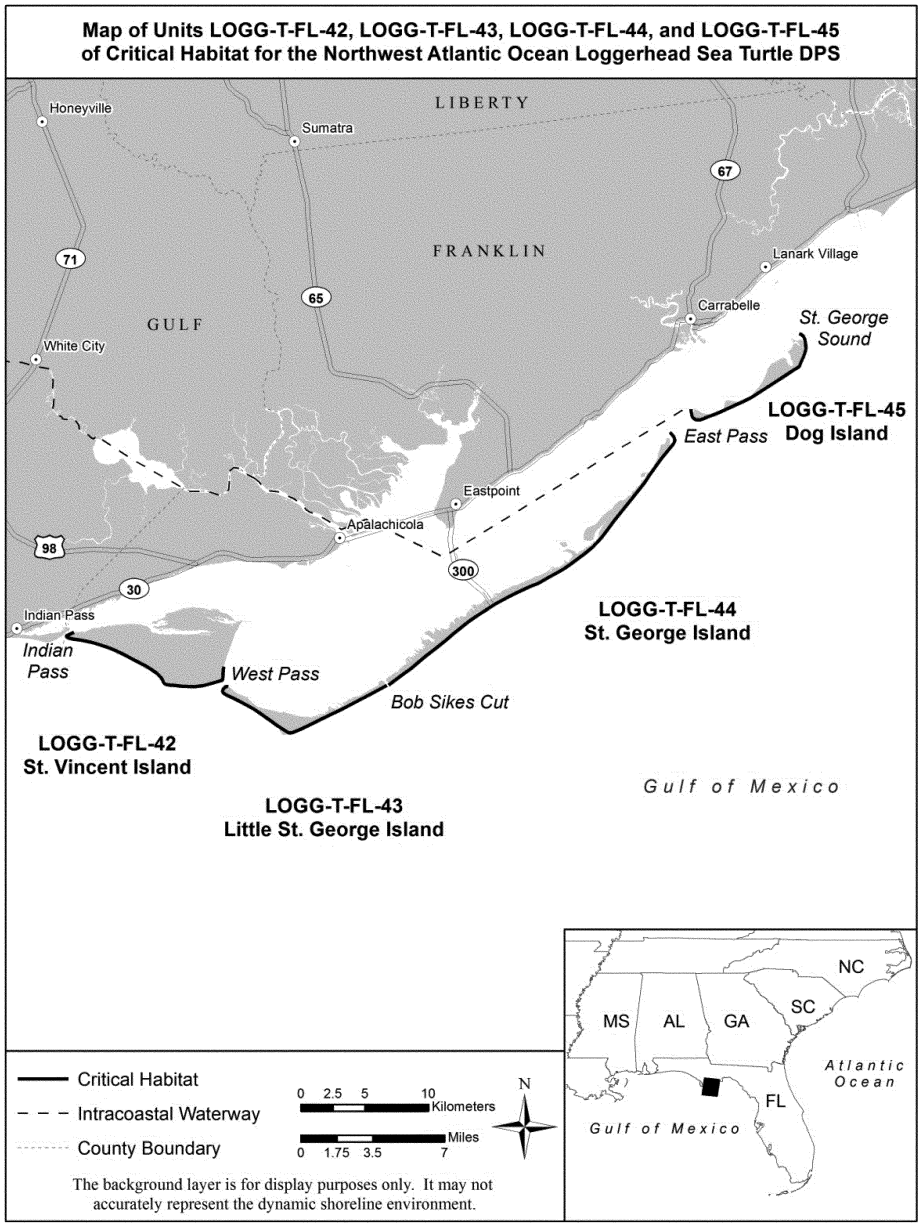
(A) LOGG–T–FL–42—St. Vincent Island: This unit consists of 15.1 km (9.4 mi) of island shoreline along the Gulf of Mexico and extends from Indian Pass to West Pass.

(B) LOGG–T–FL–43—Little St. George Island: This unit consists of 15.4 km (9.6 mi) of island shoreline along the Gulf of Mexico and extends from West Pass to Bob Sikes Cut.

(C) LOGG–T–FL–44—St. George Island: This unit consists of 30.7 km (19.1 mi) of island shoreline along the Gulf of Mexico and extends from Bob Sikes Cut to East Pass.

(D) LOGG–T–FL–45—Dog Island: This unit consists of 13.1 km (8.1 mi) of island shoreline along the Gulf of Mexico and extends from East Pass to St. George Sound.

(iii) Map of Units LOGG–T–FL–42, LOGG–T–FL–43, LOGG–T–FL–44, and LOGG–T–FL–45 follows:



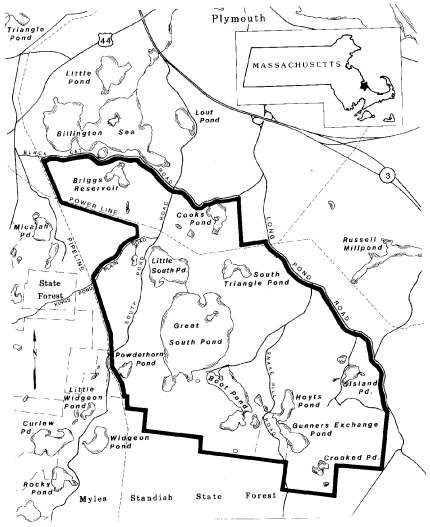
PLYMOUTH RED-BELLIED TURTLE (*Chrysemys rubriventris bangsi*)

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.

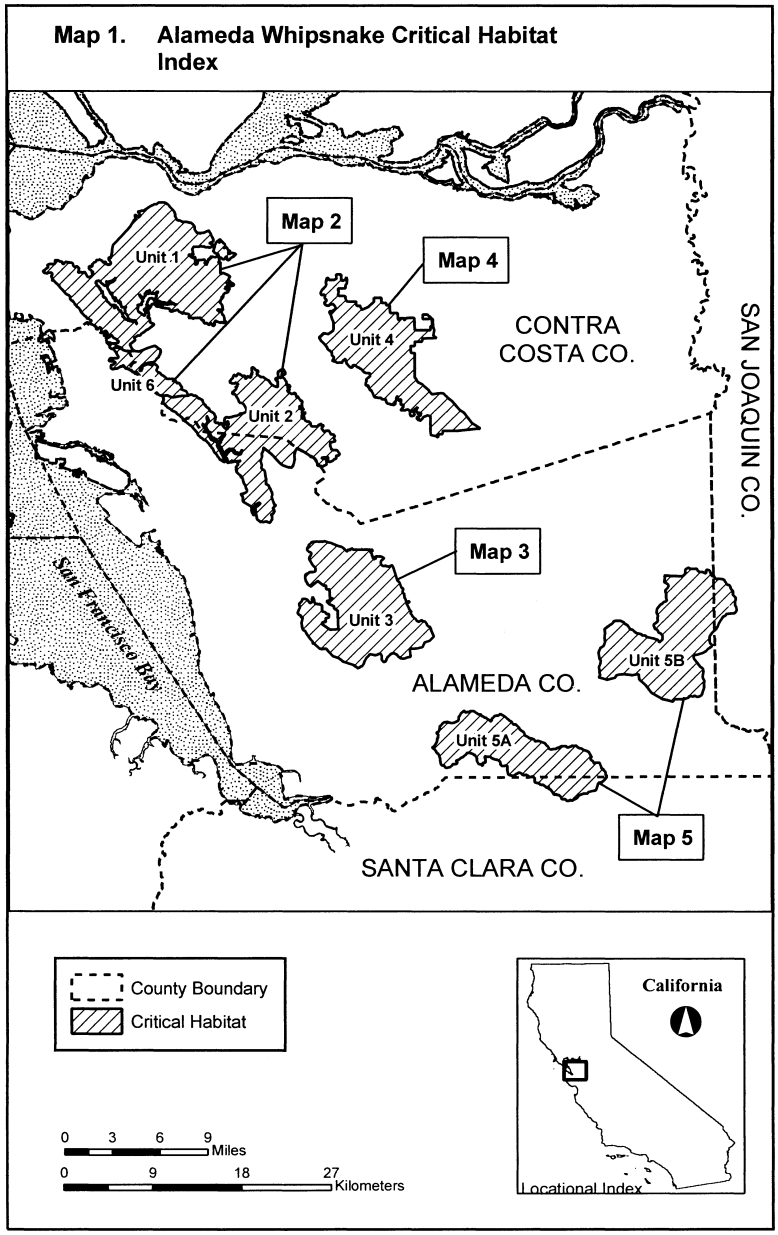
(iii) *Lands containing rock outcrops, talus, and small mammal burrows.* These areas are used for retreats (shelter), hibernacula, foraging, and dispersal, and provide additional prey population support functions.

(3) Critical habitat does not include 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.

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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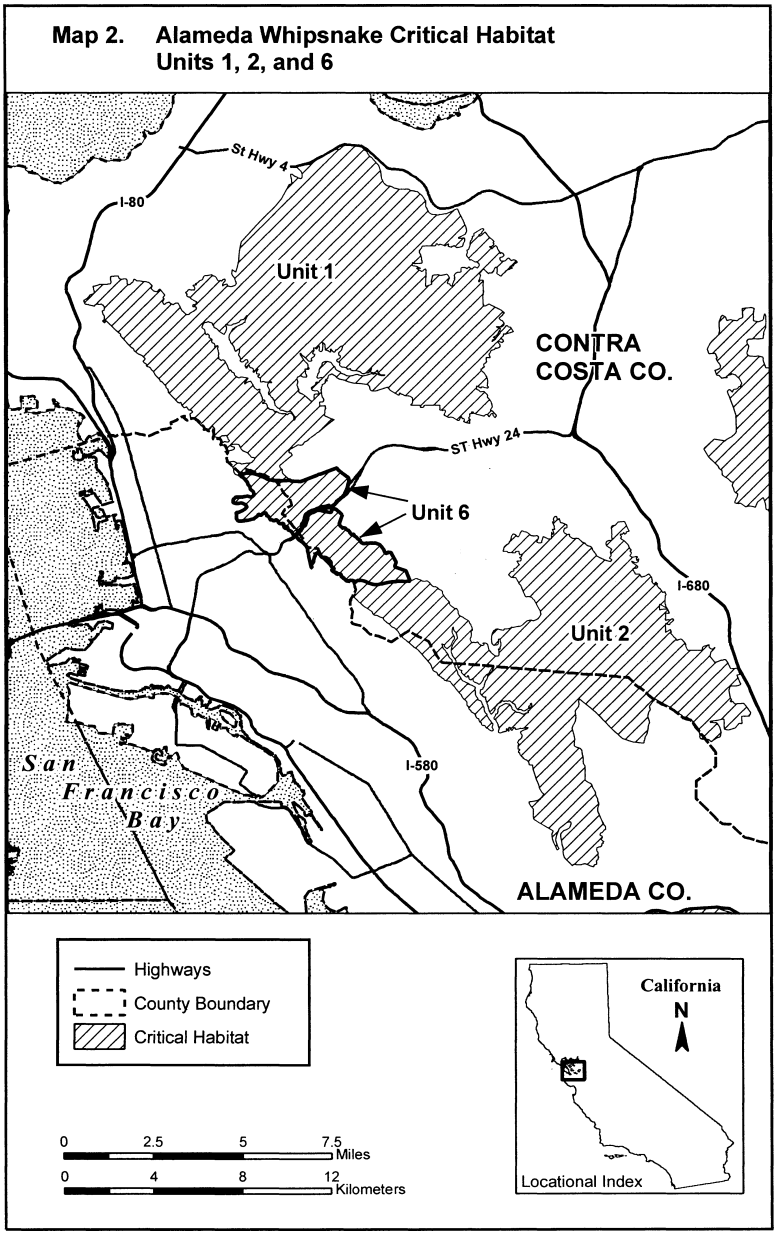
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(ii) Note: Map of Unit 2 (Unit 1, Unit 2, and Unit 6 (Map 2) follows:



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

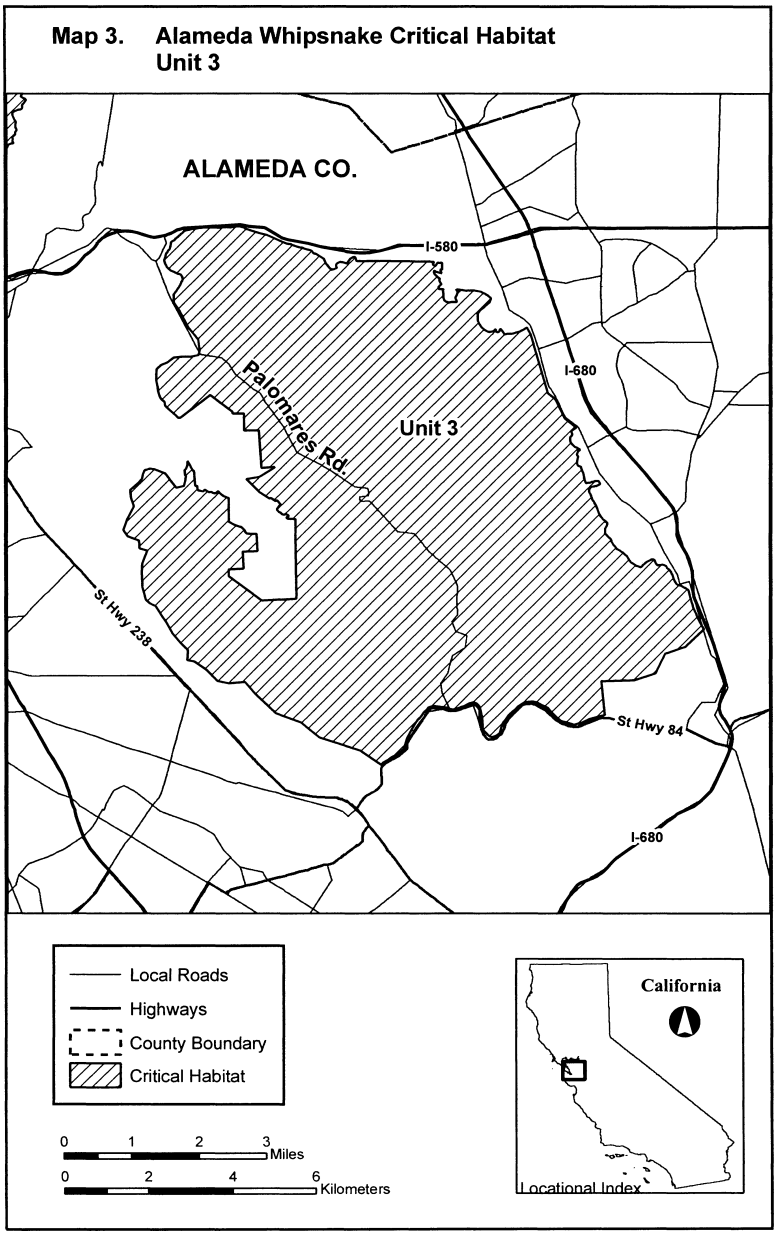
(i) From USGS 1:24,000 scale quadrangles Hayward, Newark, Dublin, and Niles. Land bounded by the following UTM Zone 10, NAD83 coordinates (E, N): 585269, 4165999; 585371, 4166270; 585519, 4166567; 585450, 4166770; 585431, 4166955; 585623, 4167122; 585713, 4167237; 585733, 4167344; 585763, 4167406; 585800,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

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



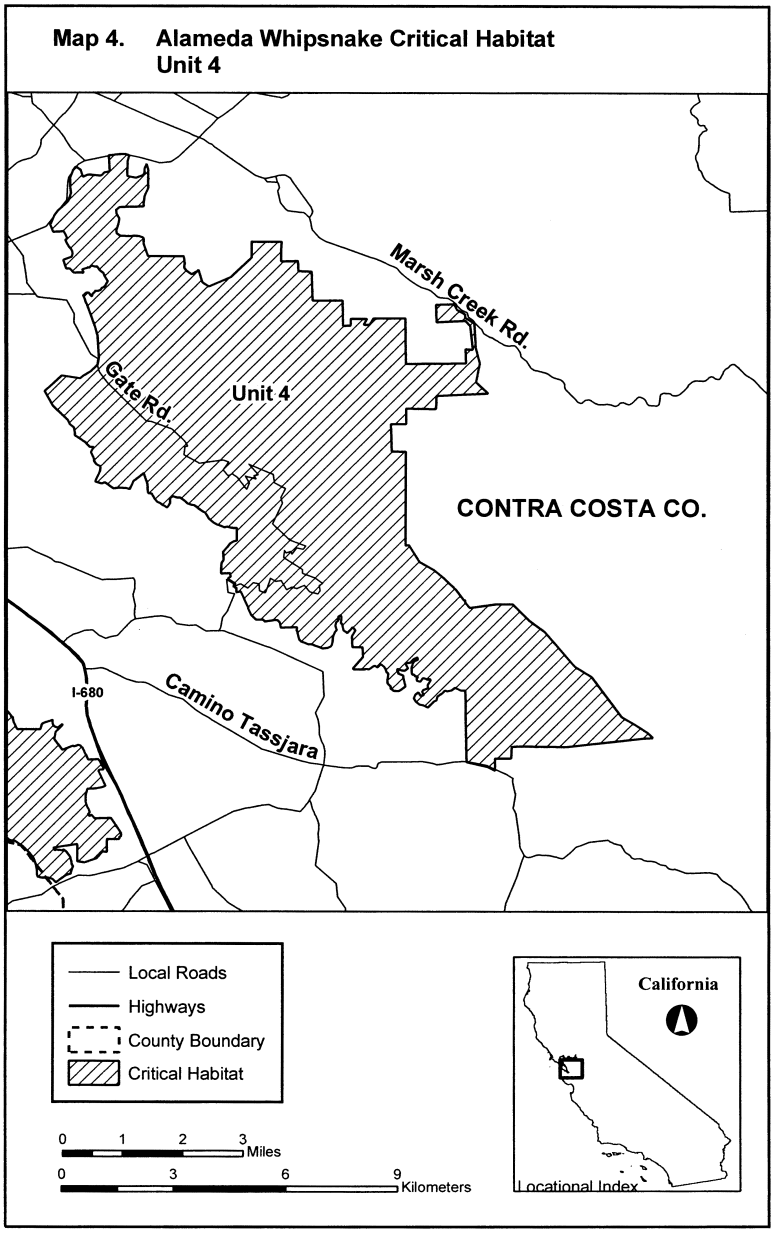
(9) Unit 4: Mount Diablo-Black Hills, Contra Costa County, California.

(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;

626586, 4170399; 626612, 4170390; 626615, 4170402; 626626, 4170412; 626629, 4170422; 626647, 4170434; 626684, 4170436; 626707, 4170437; 626747, 4170425; 626770, 4170407; 626790, 4170391; 626813, 4170378; 626916, 4170347; 626952, 4170323; 626958, 4170301; 626972, 4170253; 626979, 4170229; 626989, 4170208; 627014, 4170156; 627029, 4170132; 627056, 4170089; 627067, 4170049; 627082, 4170002; 627104, 4169947; 627139, 4169865; 627167, 4169809; 627195, 4169785; 627228, 4169767; 627251, 4169785; 627304, 4169793; 627382, 4169802; 627397, 4169763; 627414, 4169719; 627433, 4169669; 627458, 4169619; 627478, 4169587; 627515, 4169552; 627558, 4169537; 627589, 4169507; 627605, 4169498; 627635, 4169480; 627660, 4169479; 627680, 4169489; 627710, 4169497; 627746, 4169507; 627774, 4169519; 627799, 4169530; 627821, 4169526; 627879, 4169517; 627925, 4169510; 627973, 4169509; 628048, 4169503; 628109, 4169500; 628174, 4169480; 628209, 4169464; 628262, 4169442; 628292, 4169436; 628335, 4169426; 628368, 4169417; 628404, 4169394; 628430, 4169357; 628450, 4169311; 628467, 4169264; 628487, 4169239; 628505, 4169216; 628508, 4169199; 628522, 4169179; 628555, 4169134; 628575, 4169119; 628598, 4169094; 628639, 4169047; 628666, 4169011; 628750, 4168928; 628805, 4168875; 628842, 4168896; 628863, 4168894; 628886, 4168893; 628938, 4168875; 628971, 4168851; 629006, 4168810; 629023, 4168784; 629021, 4168755; 629020, 4168729; 629029, 4168691; 629039, 4168653; 629035, 4168625; 629041, 4168604; 629049, 4168574; 629076, 4168531; 629098, 4168485; 629141, 4168434; 629182, 4168396; 629196, 4168394; 629218, 4168381; 629270, 4168352; 629286, 4168227; 629286, 4168009; 629326, 4167870; 629564, 4167612; 629544, 4167413; 629524, 4167116; 629504, 4166838; 629643, 4166600; 629683, 4166342; 629584, 4166104; 629385, 4165985; 629167, 4166005; 628671, 4165925; 628532, 4165786; 628314, 4165628; 628155, 4165370; 627897, 4165012; 627738, 4164655; 627599, 4164358; 627183, 4164020; 626925, 4163643; 626925, 4163246; 627024, 4162929; 627202, 4162770; 627163, 4162631; 626845, 4162393; 626627, 4162175; 626250, 4161996; 625774, 4161798; 625416, 4161758; 625297, 4161540; 625357, 4161341; 625615, 4161063; 625952, 4160647; 626270, 4160389; 626309, 4160091; 626250, 4159575; 626270, 4159377; 626409, 4159139; 626349, 4158781; 626369, 4158385; 626239, 4157942; 626171, 4157710; 625893, 4157511; 625674, 4157492; 625436, 4157630; 625278, 4157531; 624901, 4157571; 624762, 4157412; 624524, 4157313; 624206, 4157293; 623809, 4157293; 623373, 4157273; 623369, 4157265; 623273, 4157015; 622122, 4157293; 621011, 4157928; 620436, 4158722; 619801, 4159258; 619761, 4159774; 619543, 4159754; 619166, 4159694; 618888, 4159734; 618531, 4159774; 618293, 4159833; 617896, 4159774; 617538, 4159694; 617360, 4159436; 616983, 4159337; 616586, 4159218; 615732, 4159484; 615878, 4159699; 615819, 4160001; 615780, 4160265; 615771, 4160548; 615878, 4160899; 615917, 4161191; 615790, 4161328; 615771, 4161679; 615653, 4162020; 615897, 4162459; 616170, 4162645; 616375, 4163064; 616328, 4163465; 616368, 4163901; 616308, 4164397; 616658, 4164712; 616715, 4164704; 616865, 4164811; 617057, 4164918; 617164, 4165025; 617207, 4165153; 617249, 4165196; 617484, 4165260; 617698, 4165260; 617912, 4165260; 618061, 4165174; 618296, 4165025; 618339, 4164896; 618446, 4164896; 618531, 4164854; 618659, 4164768; 618745, 4164597; 618830, 4164533; 618873, 4164405; 618980, 4164362; 619108, 4164362; 619236, 4164234; 619514, 4163999; 619599, 4163978; 619792, 4163935; 619941, 4163871; 620048, 4163871; 620133, 4163743; 620411, 4163743; 620603, 4163572; 620689, 4163572; 620796, 4163529; 621137, 4163422; 621244, 4163444; 621437, 4163358; 621543, 4163316; 621672, 4163294; 621800, 4163187; 621821, 4162995; 621832, 4163004; 622206, 4163294; 622206, 4163465; 622206, 4163572; 622248, 4163679; 622013, 4163935; 621928, 4163956; 621800, 4163999; 621736, 4164085; 621714, 4164277; 621565, 4164341; 621415, 4164384; 621372, 4164576; 621330, 4164640; 621266, 4164726; 621266, 4164832; 621415, 4164961; 621522, 4165046; 621650, 4165131; 621714, 4165238; 621693, 4165345; 621672, 4165473; 621714, 4165580; 621693, 4165815; 621607, 4165965; 621586, 4166071; 621565, 4166232; 621565, 4166285; 621650, 4166520; 621821, 4166712; 622013, 4166926; 622099, 4166947; 622334, 4167140; 622547, 4167204; 622633, 4167289; 622590, 4167396; 622526, 4167588; 622526, 4167866; 622526, 4167994; 622483, 4168144; 622462, 4168315; 622676, 4168528; 622782, 4168742; 622782, 4168891; 622654, 4169020; 622505, 4169126; 622355, 4169126; 622377, 4169233; 622419, 4169426; 622419, 4169596; 622419, 4169767; 622312, 4169810; 624150, 4169789; 624342, 4169874; 624492, 4170024; 624492, 4170152; 624492, 4170323; 624534, 4170494; 624705, 4170601; 624833, 4170643; returning to 624962, 4170579.

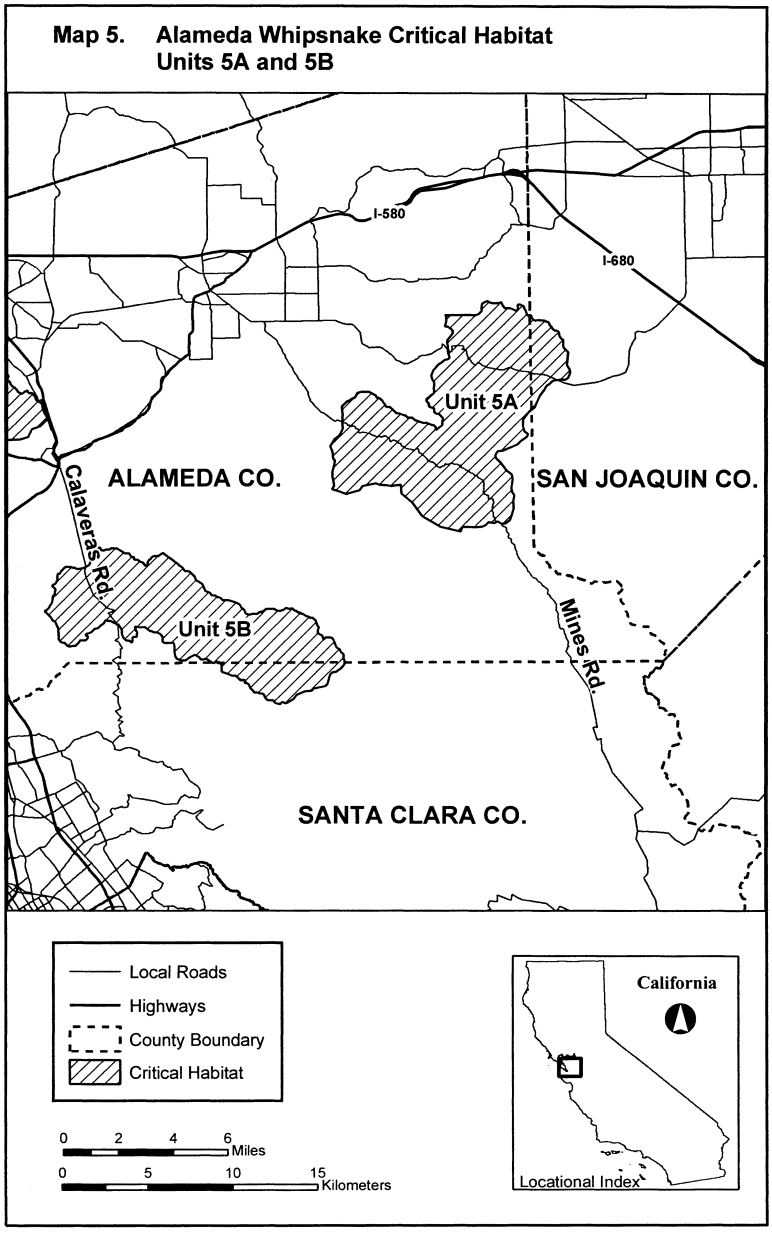
(ii) Note: Map of Unit 5A is provided in paragraph (11)(ii) of this section.

(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.*

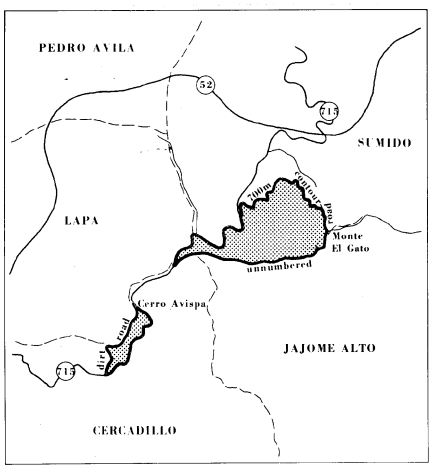
GOLDEN COQUI (*Eleutherodactylus jasperi*)

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.

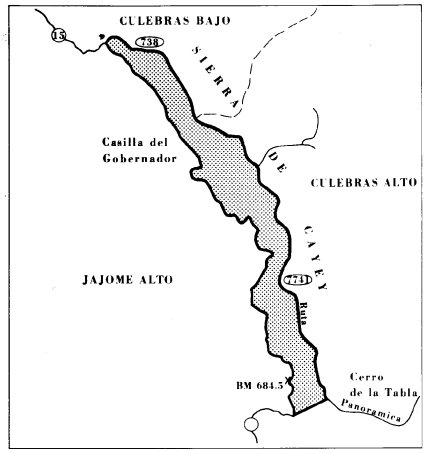
(3) Sierra de Cayey-elevations above 700 meters: southeast from the junction of Highways 738 and 15 along Highway 15 to point .5 kilometer south of Benchmark 684.5, northeast from this point in a line to a point on Highway 7741 two kilometers south of the junction of Highway 738 and 7741, north and northwest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



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

NOTE: The map provided is for informational purposes only. Map follows:



COQUÍ LLANERO (*Eleutherodactylus juanariveroi*)

(1) Critical habitat unit is depicted for Toa Baja, Puerto Rico, on the map below.

(2) Within this area, the primary constituent elements of the physical or biological features essential to the conservation of coquí llanero consist of three components:

(i) *Palustrine herbaceous wetland.* Palustrine emergent persistent wetlands that are seasonally to permanently flooded. Ocean-derived salts need to be less than 0.5 parts per thousand (ppt) salinity.

(ii) *Vegetation and vegetation composition of the palustrine herbaceous wetland.* Emergent vegetation characterized by erect, rooted herbaceous hydrophytes usually dominated by perennial plants like ferns, *Sagittaria lancifolia,* flatsedges, spike rushes, vines, and grasses. In addition to the combination of vegetation, at least 25 percent of the vegetation should be ferns and *S. lancifolia.*

(iii) *Hydrology.* A hydrologic flow regime (*i.e.*, the pathways of precipitation, surface run-off, groundwater, tides, and flooding of rivers and canals [manmade ditches]) that maintains the palustrine herbaceous wetland.

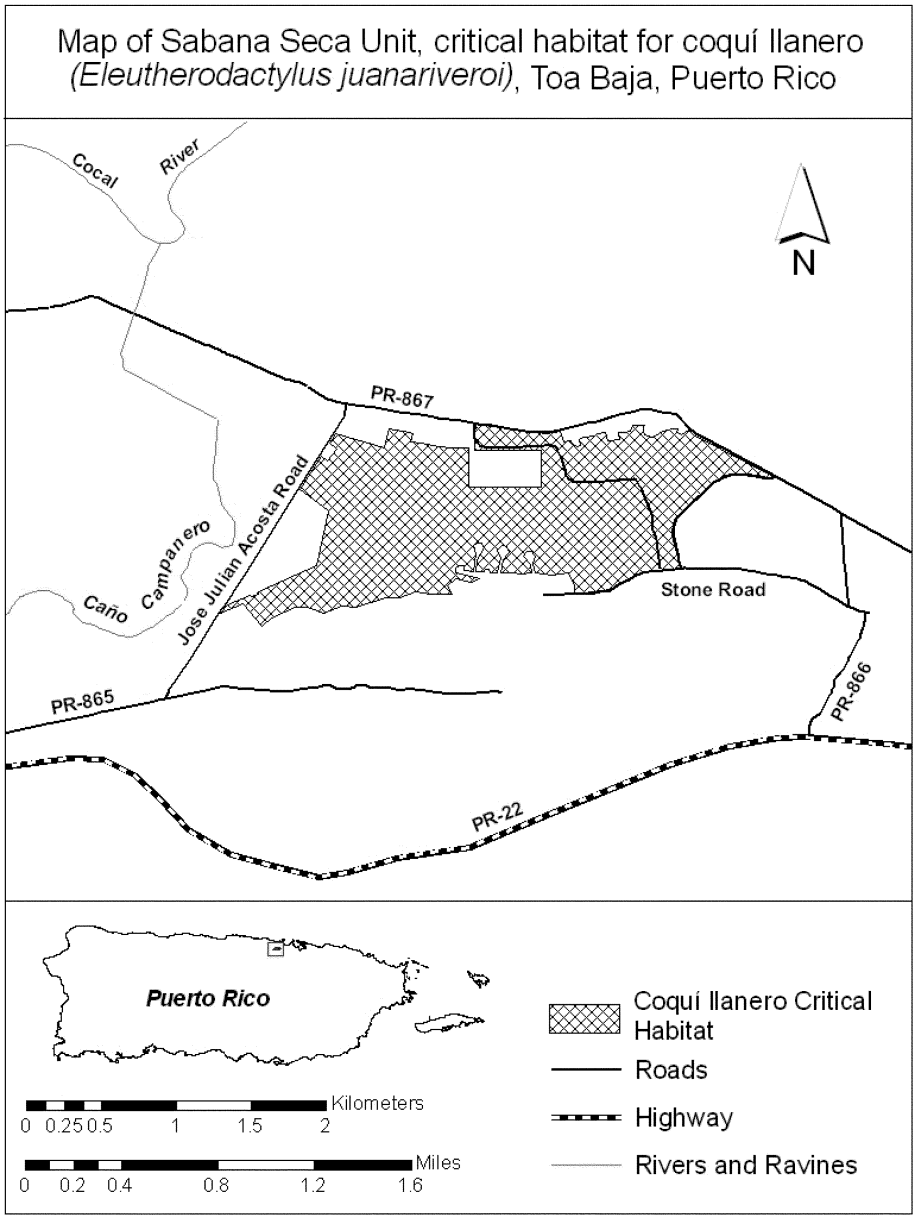
(3) Critical habitat does not include manmade structures (such as buildings, aqueducts, runways, roads, and other paved areas) and the land on which they are located existing within the legal boundaries on November 5, 2012.

(4) *Critical habitat map units.* Data layers defining map units were created by delineating habitats that contain at least one or more of the primary constituent elements defined in paragraph (2) of this entry, over a base of USGS digital topographic map quadrangle (Bayamón) and a USDA 2007 digital ortho-photo mosaic, in addition to the National Wetland Inventory maps. The resulting critical habitat unit was then mapped using State Plane North American Datum (NAD) 83 coordinates. The maps in this entry, as modified by any accompanying regulatory text, establish the boundaries of the critical habitat designation. The coordinates or plot points or both on which each map is based are available to the public at the Service's Internet site, (*http://www.fws.gov/caribbean/es/Endangered-Main.html*), (*http://www.regulations.gov* at Docket No. FWS–R4–ES–2009–0022 and at the field office responsible for this designation. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2.

(5) Sabana Seca Unit, Toa Baja, Puerto Rico.

(i) *General Description:* The Sabana Seca Unit consists of approximately 615 ac (249 ha) located south of State Road PR–867, west-southwest of Ramón Ríos Román Avenue, east of José Julián Acosta Road, and north of the limestone hills located north of Highway PR–22 in the municipality of Toa Baja, Puerto Rico.

(ii) Map of Sabana Seca Unit follows:



CALIFORNIA RED-LEGGED FROG (*Rana draytonii*)

(1) Critical habitat units are depicted for Alameda, Butte, Calaveras, Contra Costa, El Dorado, Kern, Kings, Los Angeles, Marin, Mendocino, Merced, Monterey, Napa, Nevada, Placer, Riverside, San Benito, San Joaquin, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Solano, Sonoma, Stanislaus, 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 4.5 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) *Aquatic Non-Breeding Habitat*. Freshwater pond and stream habitats, as described in paragraph (2)(i) of this entry, that may not hold water long enough for the species to complete its aquatic life cycle but which provide for shelter, foraging, predator avoidance, and aquatic dispersal of juvenile and adult California red-legged frogs. Other wetland habitats considered to meet these criteria include, but are not limited to: plunge pools within intermittent creeks, seeps, quiet water refugia within streams during high water flows, and springs of sufficient flow to withstand short-term dry periods.

(iii) *Upland Habitat*. Upland areas adjacent to or surrounding breeding and non-breeding aquatic and riparian habitat up to a distance of 1 mi (1.6 km) in most cases (*i.e.*, depending on surrounding landscape and dispersal barriers) including various vegetational series such as grassland, woodland, forest, wetland, or riparian areas that provide shelter, forage, and predator avoidance for the California red-legged frog. Upland habitat should include structural features such as boulders, rocks and organic debris (e.g., downed trees, logs), small mammal burrows, or moist leaf litter. 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 aquatic, wetland, or riparian habitat. These upland features contribute to:

(A) Filling of aquatic, wetland, or riparian habitats;

(B) Maintaining suitable periods of pool inundation for larval frogs and their food sources; and

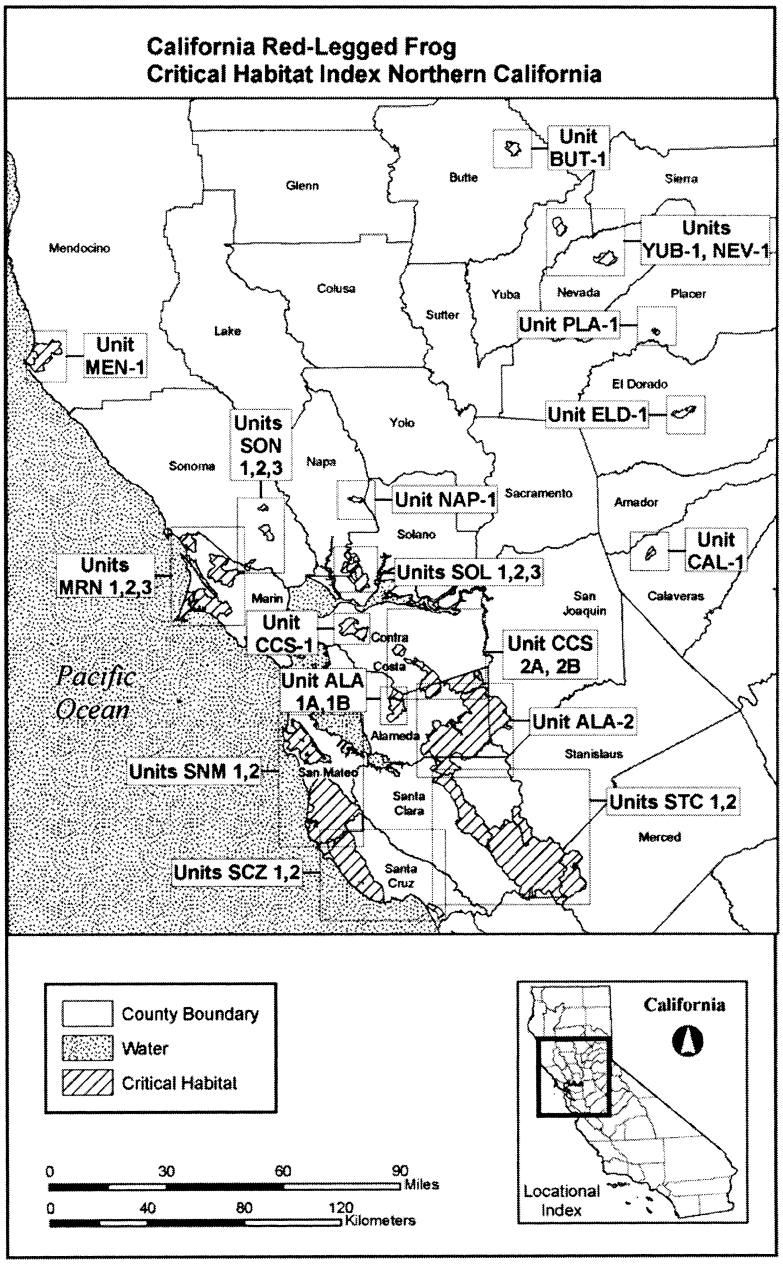
(C) Providing non-breeding, feeding, and sheltering habitat for juvenile and adult frogs (e.g., shelter, shade, moisture, cooler temperatures, a prey base, foraging opportunities, and areas for predator avoidance).

(iv) *Dispersal Habitat*. Accessible upland or riparian habitat within and between occupied locations within a minimum of 1 mi (1.6 km) of each other and that support movement between such sites. Dispersal habitat includes various natural habitats, and altered habitats such as agricultural fields, that do not contain barriers (e.g., heavily traveled roads without bridges or culverts) to dispersal. 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 lakes or reservoirs over 50 ac (20 ha) in size, or other areas that do not contain those features identified in paragraphs (2)(i), (2)(ii), and (2)(iii) of this entry as essential to the conservation of the species.

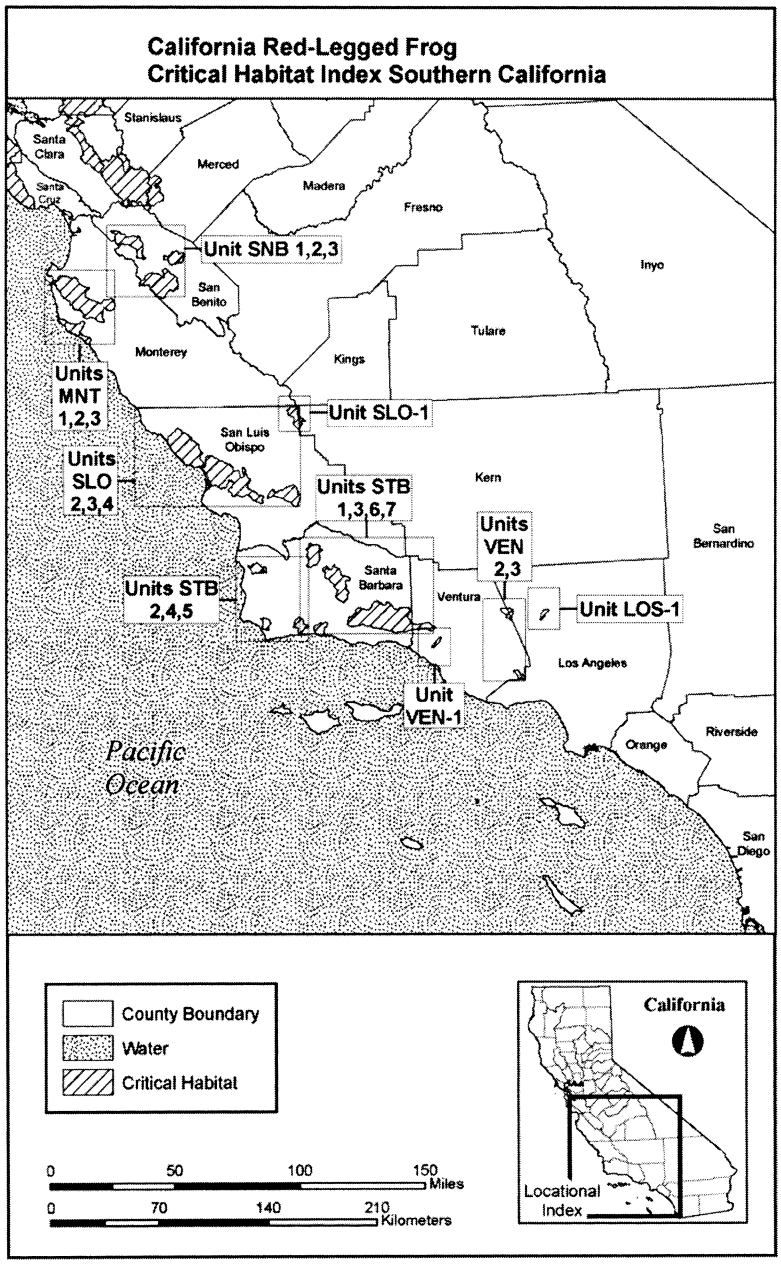
(3) Critical habitat does not include manmade structures existing on the effective date of this rule and not containing one or more of the primary constituent elements, such as buildings, aqueducts, airports, and roads, and the land on which such structures are located.

(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 and zone 11, North American Datum (NAD) 1983 coordinates.

(5) *Note:* Index map for California red-legged frog critical habitat units in northern California follows:



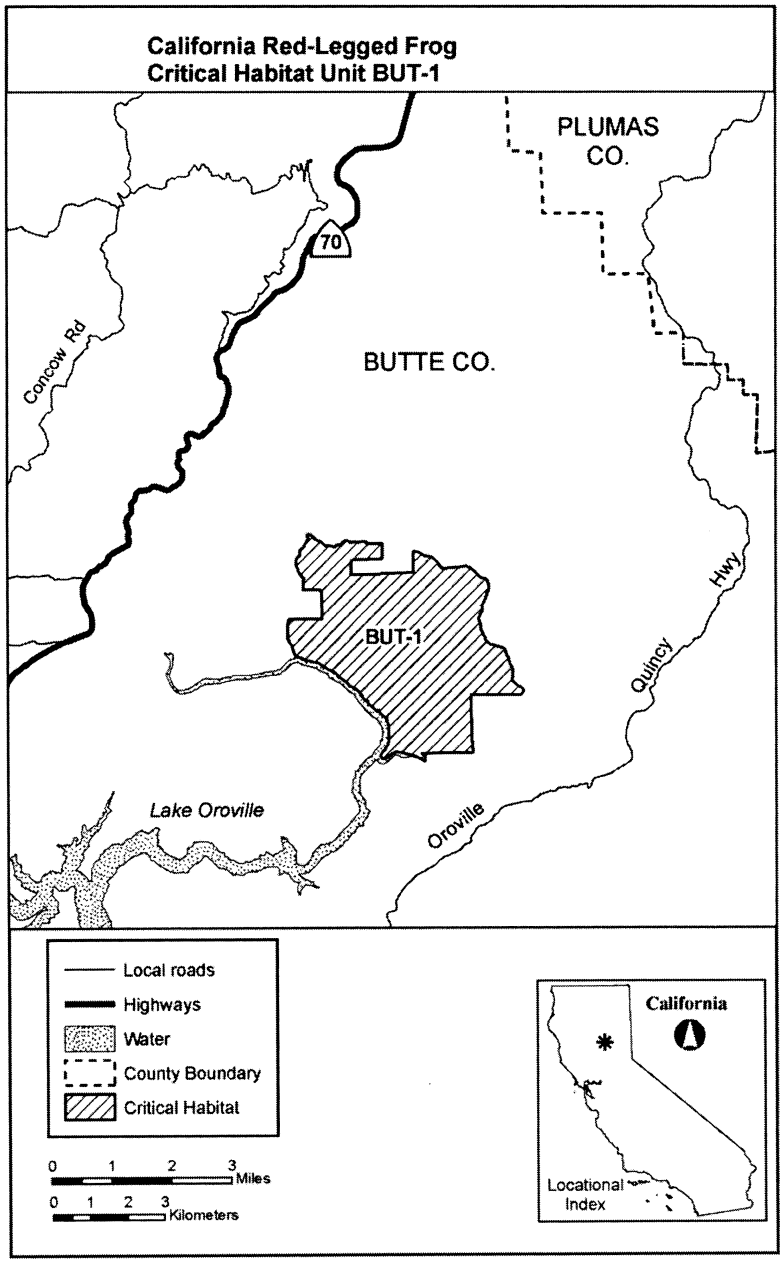
(6) *Note:* Index map for California red-legged frog critical habitat units in southern California follows:



(7) Unit BUT-1: Butte County, California. From USGS 1:24,000 scale quadrangles Pulga, Berry Creek and Brush Creek.

(i) [Reserved]

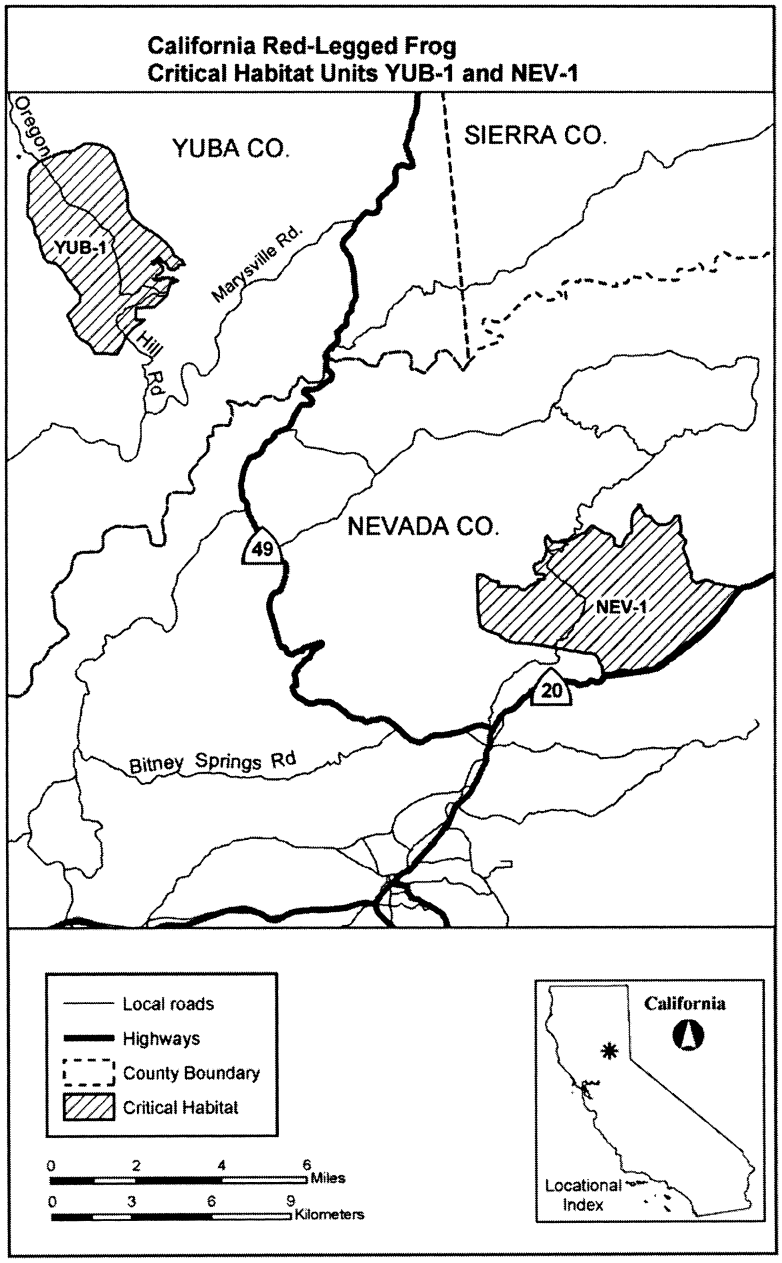
(ii) Map of Unit BUT-1 for the California red-legged frog follows:



(8) Unit YUB-1: Yuba County, California. From USGS 1:24,000 scale quadrangle Challenge.

(i) [Reserved]

(ii) Map of Unit YUB-1 and NEV-1 for the California red-legged frog follows:



(9) Unit NEV-1: Nevada County, California. From USGS 1:24,000 scale quadrangle Nevada City and North Bloomfield.

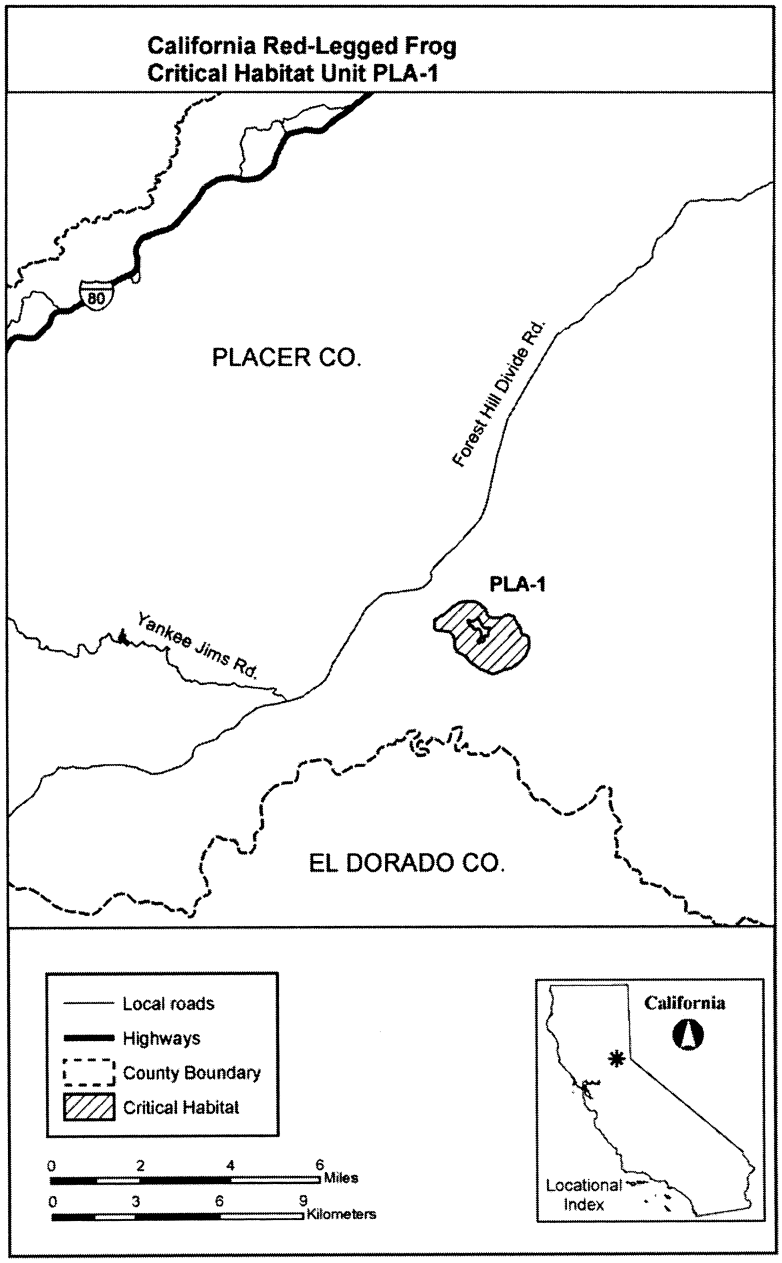
(i) [Reserved]

(ii) Unit NEV-1 for California red-legged frog is depicted on the map in paragraph (8)(ii) of this entry.

(10) Unit PLA-1: Placer County, California. From USGS 1:24,000 scale quadrangles Forest Hill and Michigan Bluff.

(i) Unit PLA–1 excludes land bounded by the following UTM Zone 10, NAD83 coordinates (E, N): 695636, 4324153; 695563, 4324116; 695471, 4324147; 695380, 4324137; 695482, 4323950; 695575, 4323941; 695636, 4323824; 695782, 4323867; 695815, 4323840; 695885, 4323710; 695875, 4323548; 695757, 4323455; 695789, 4323364; 695821, 4323355; 695847, 4323389; 695974, 4323437; 695975, 4323571; 696121, 4323615; 696178, 4323884; 696037, 4323867; 695941, 4323923; 695775, 4324220; returning to 695636, 4324153.

(ii) Map of Unit PLA-1 for the California red-legged frog follows:

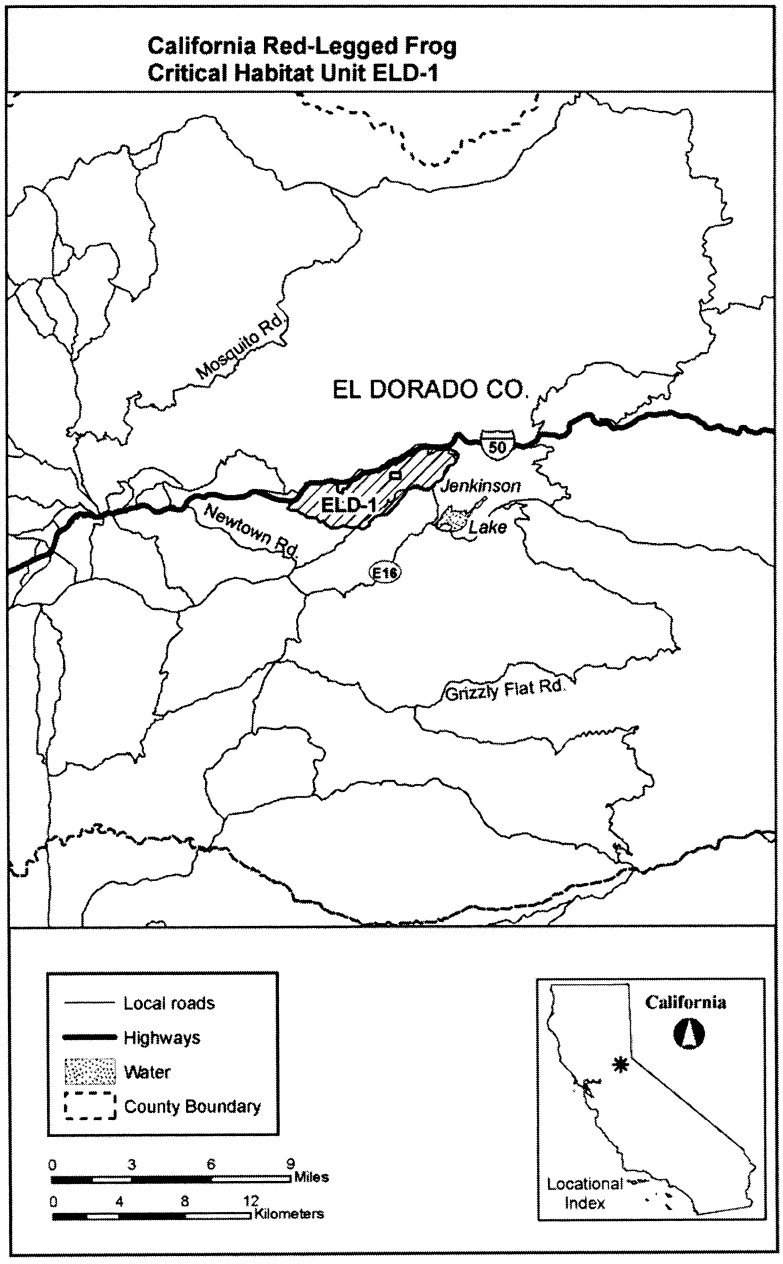


(11) Unit ELD-1: El Dorado County, California. From USGS 1:24,000 scale quadrangles Camino, Pollock Pines and Sly Park.

(i) Unit ELD–1 excludes land bounded by the following UTM Zone 10, NAD83 coordinates (E, N): 708426, 4291544; 708412, 4291176;

709003, 4291194; 709025, 4291561; returning to 708426, 4291544.

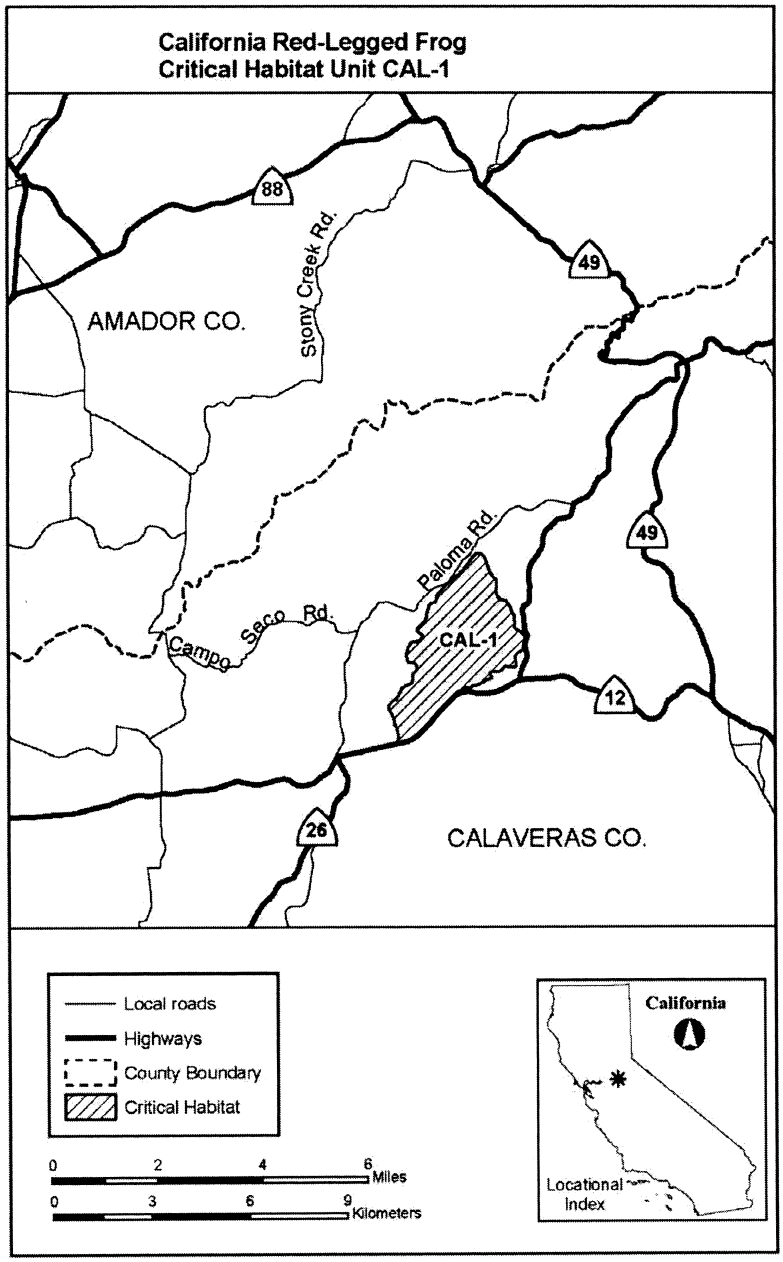
(ii) Map of Unit ELD-1 for the California red-legged frog follows:



(12) Unit CAL-1: Calaveras County, California. From USGS 1:24,000 scale quadrangles Jackson, Valley Springs and Mokelumne Hill.

(i) [Reserved]

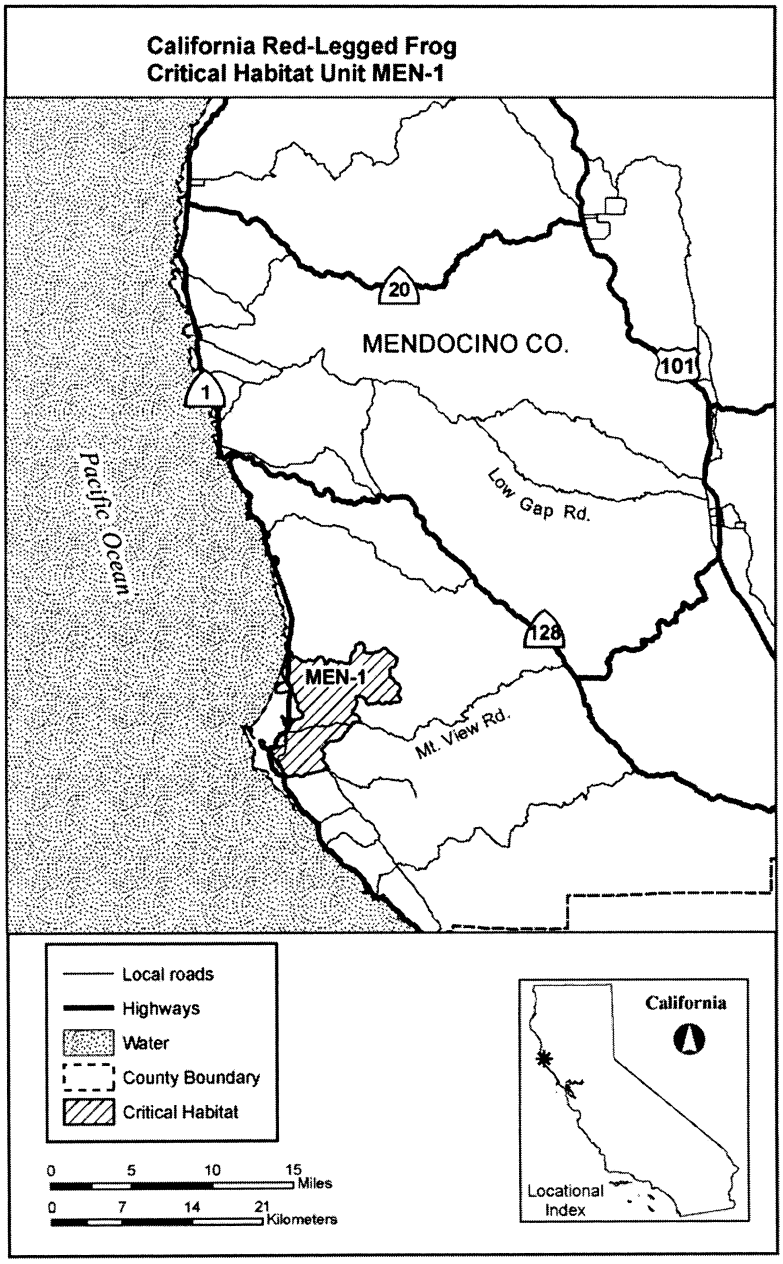
(ii) Map of Unit CAL-1 for the California red-legged frog follows:



(13) Unit MEN-1: Mendocino County, California. From USGS 1:24,000 scale quadrangles Cold Spring, Eureka Hill, Mallo Pass Creek, and Point Arena.

(i) [Reserved]

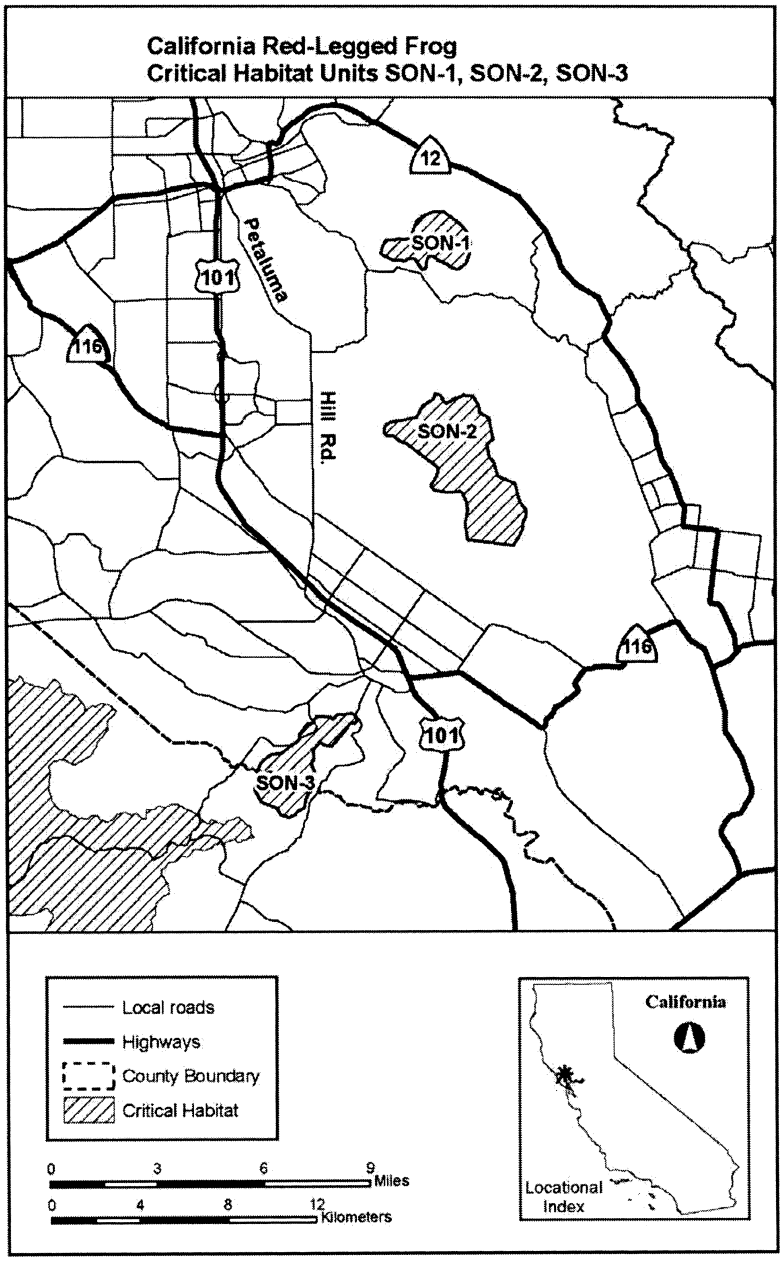
(ii) Map of Unit MEN-1 for the California red-legged



(14) Unit SON-1: Sonoma County, California. From USGS 1:24,000 scale quadrangles Santa Rosa and Kenwood.

(i) [Reserved]

(ii) Map of Units SON-1, SON-2 and SON-3 for the California red-legged frog follows:



(15) Unit SON-2: Sonoma County, California. From USGS 1:24,000 scale quadrangles Cotati and Glen Ellen.

(i) [Reserved]

(ii) Unit SON-2 for California red-legged frog is depicted on the map in paragraph (14)(ii) of this entry.

(16) Unit SON-3: Sonoma and Marin Counties, California. From USGS 1:24,000 scale quadrangle Petaluma.

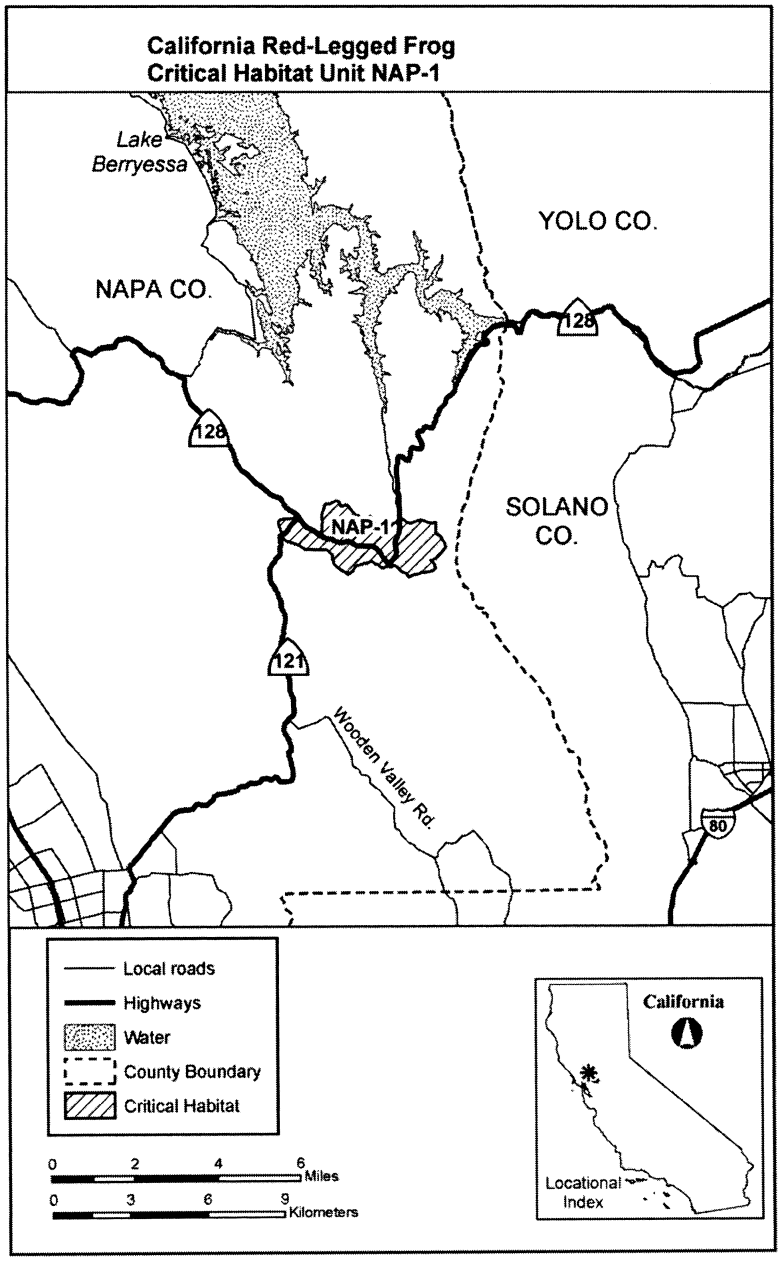
(i) Reserved]

(ii) Unit SON-3 for California red-legged frog is depicted on the map in paragraph (14)(ii) of this entry.

(17) Unit NAP-1: Napa County, California. From USGS 1:24,000 scale quadrangle Capell Valley.

(i) [Reserved]

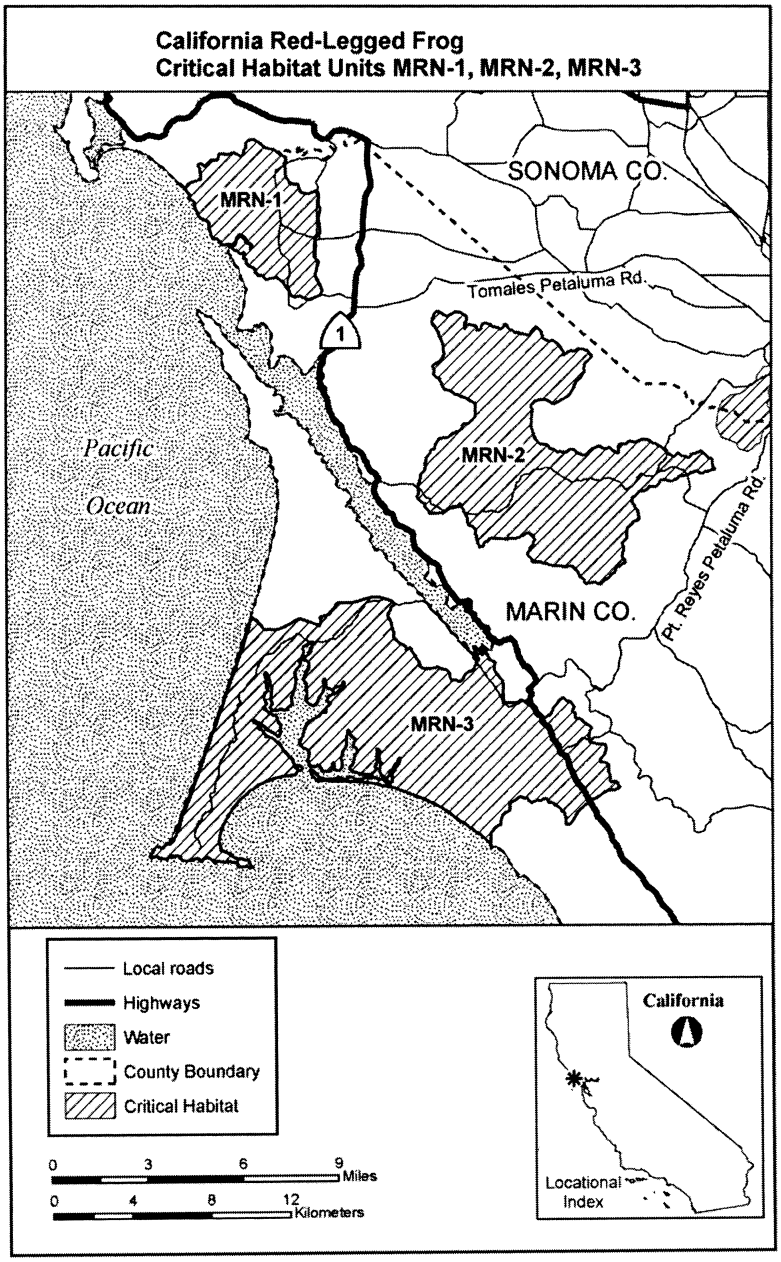
(ii) Map of Unit NAP-1 for the California red-legged frog follows:



(18) Unit MRN-1: Marin County, California. From USGS 1:24,000 scale quadrangles Valley Ford and Tomales.

(i) [Reserved]

(ii) Map of Units MRN-1, MRN-2 and MRN-3 for the California red-legged frog follows:



(19) Unit MRN-2: Marin County, California. From USGS 1:24,000 scale quadrangles Point Reyes NE, Inverness, and Petaluma.

(i) [Reserved]

(ii) Unit MRN-2 for California red-legged frog is depicted on the map in paragraph (18)(ii) of this entry.

(20) Unit MRN-3: Marin County, California. From USGS 1:24,000 scale quadrangles Drakes Bay and Inverness.

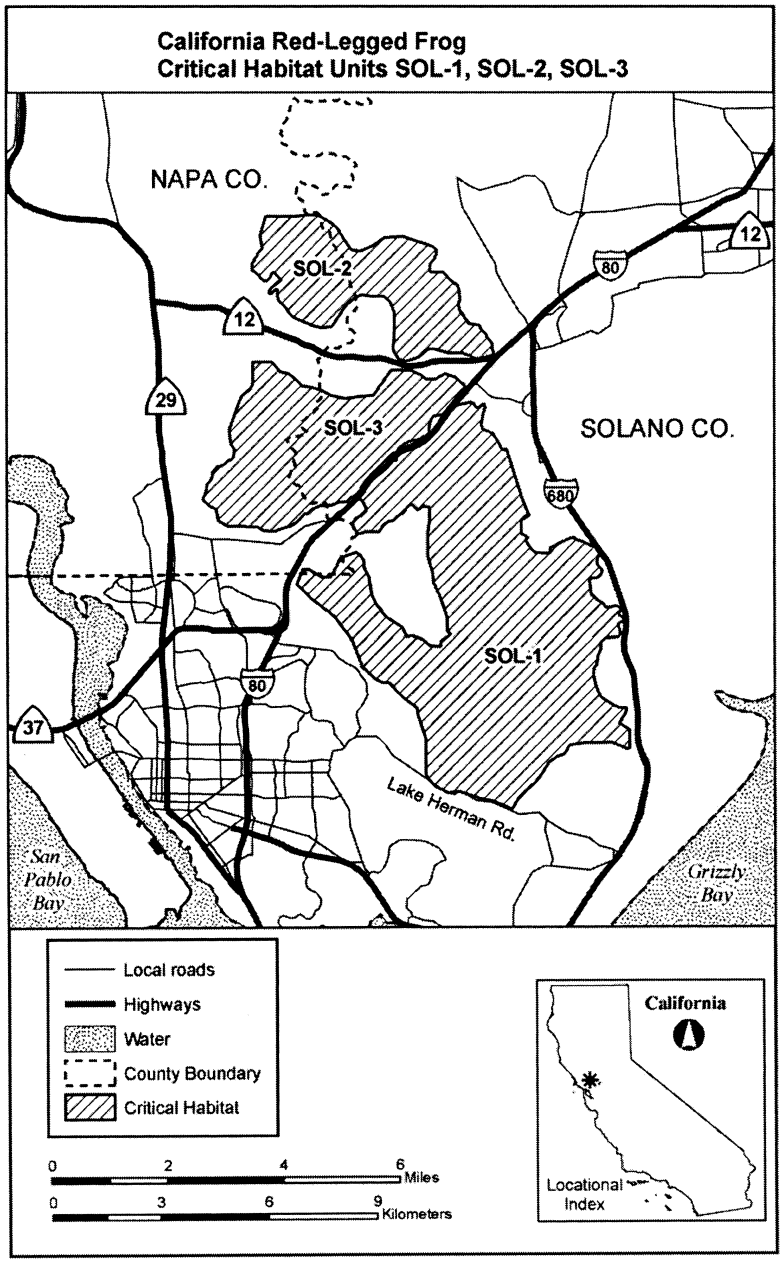
(i) [Reserved]

(ii) Unit MRN-3 for California red-legged frog is depicted on the map in paragraph (18)(ii) of this entry.

(21) Unit SOL-1: Solano and Napa Counties, California. From USGS 1:24,000 scale quadrangles Cordelia, Benecia, Fairfield South and Vine Hill.

(i) [Reserved]

(ii) Map of Units SOL-1, SOL-2 and SOL-3 for the California red-legged frog follows:



(22) Unit SOL-2: Solano and Napa Counties, California. From USGS 1:24,000 scale quadrangle Cordelia.

(i) [Reserved]

(ii) Unit SOL-2 for California red-legged frog is depicted on the map in paragraph (21)(ii) of this entry.

(23) Unit SOL-3: Solano and Napa Counties, California. From USGS 1:24,000 scale quadrangle Cordelia.

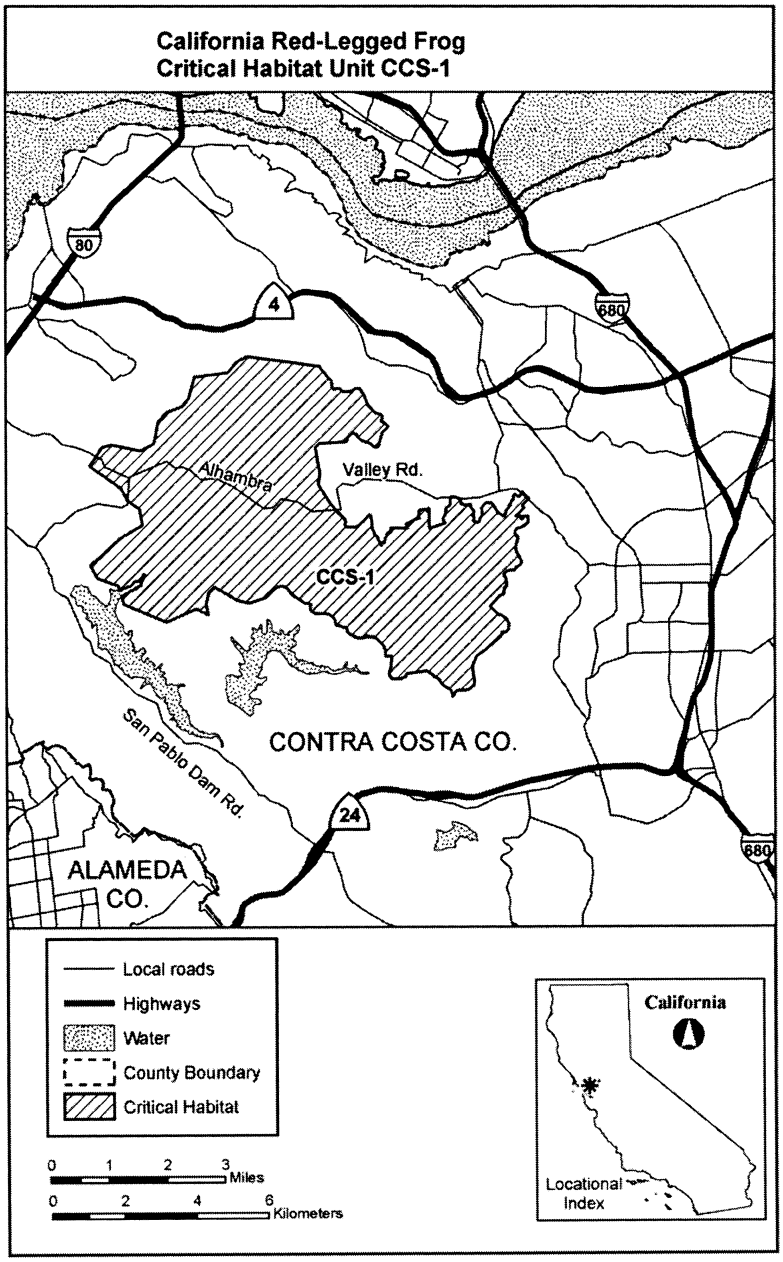
(i) [Reserved]

(ii) Unit SOL-3 for California red-legged frog is depicted on the map in paragraph (21)(ii) of this entry.

(24) Unit CCS-1: Contra Costa County, California. From USGS 1:24,000 scale quadrangles Richmond, Benecia, Briones Valley and Walnut Creek.

(i) [Reserved]

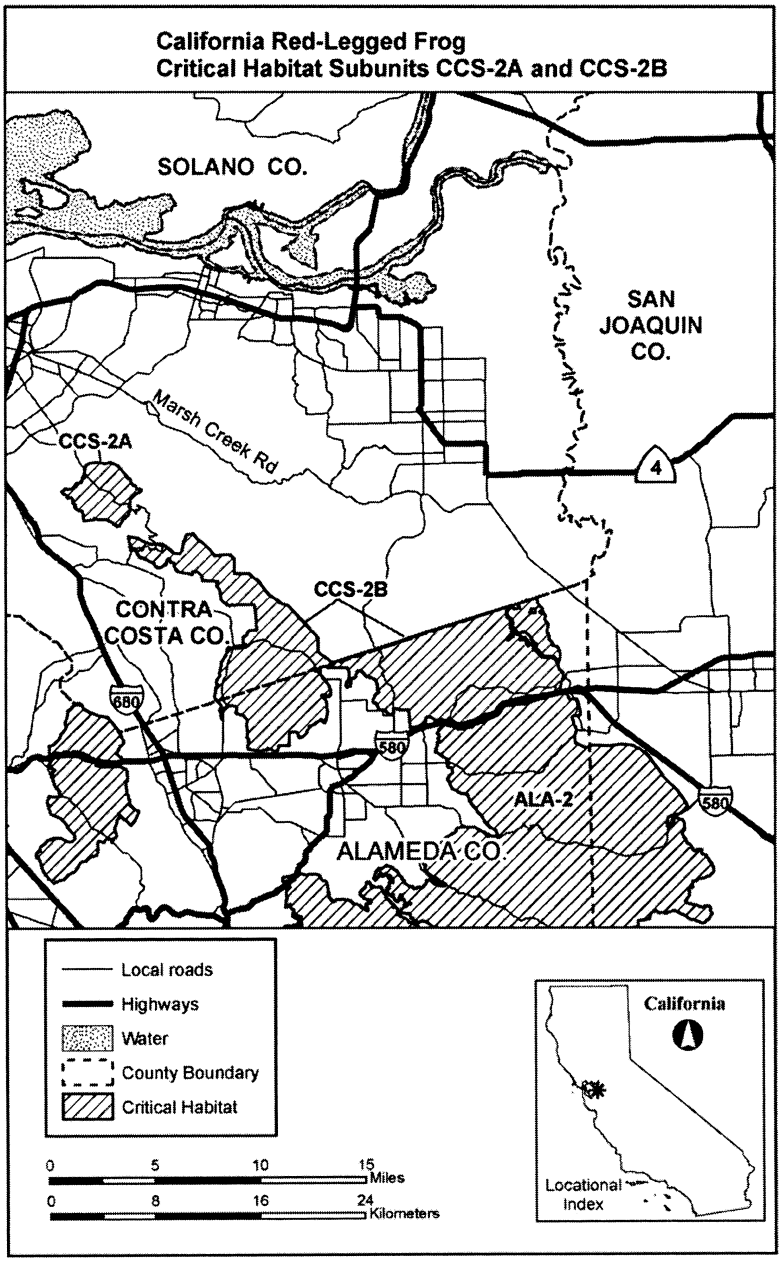
(ii) Map of Unit CCS-1 for the California red-legged frog follows:



(25) Unit CCS-2: Contra Costa and Alameda Counties, California.

(i) Subunit CCS–2B excludes land bounded by the following UTM Zone 10, NAD83 coordinates (E, N): 622742, 4184043; 622742, 4183973; 623170, 4183986; 623154, 4184309; 622828, 4184300; 622828, 4184064; returning to 622742, 4184043.

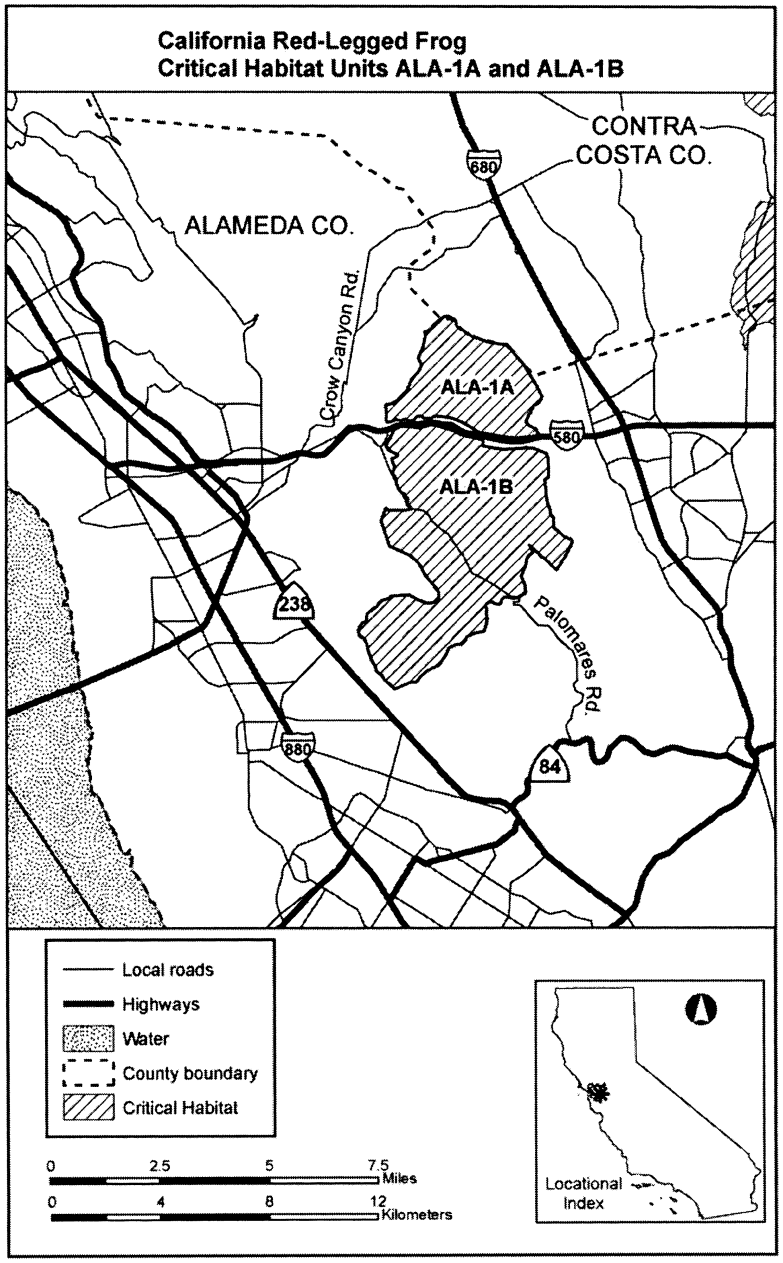
(ii) Map of Unit CCS-2, subunits CCS-2A and CCS-2B, for the California red-legged frog follows:



(26) Unit ALA-1: Alameda and Contra Costa Counties, California.

(i) [Reserved]

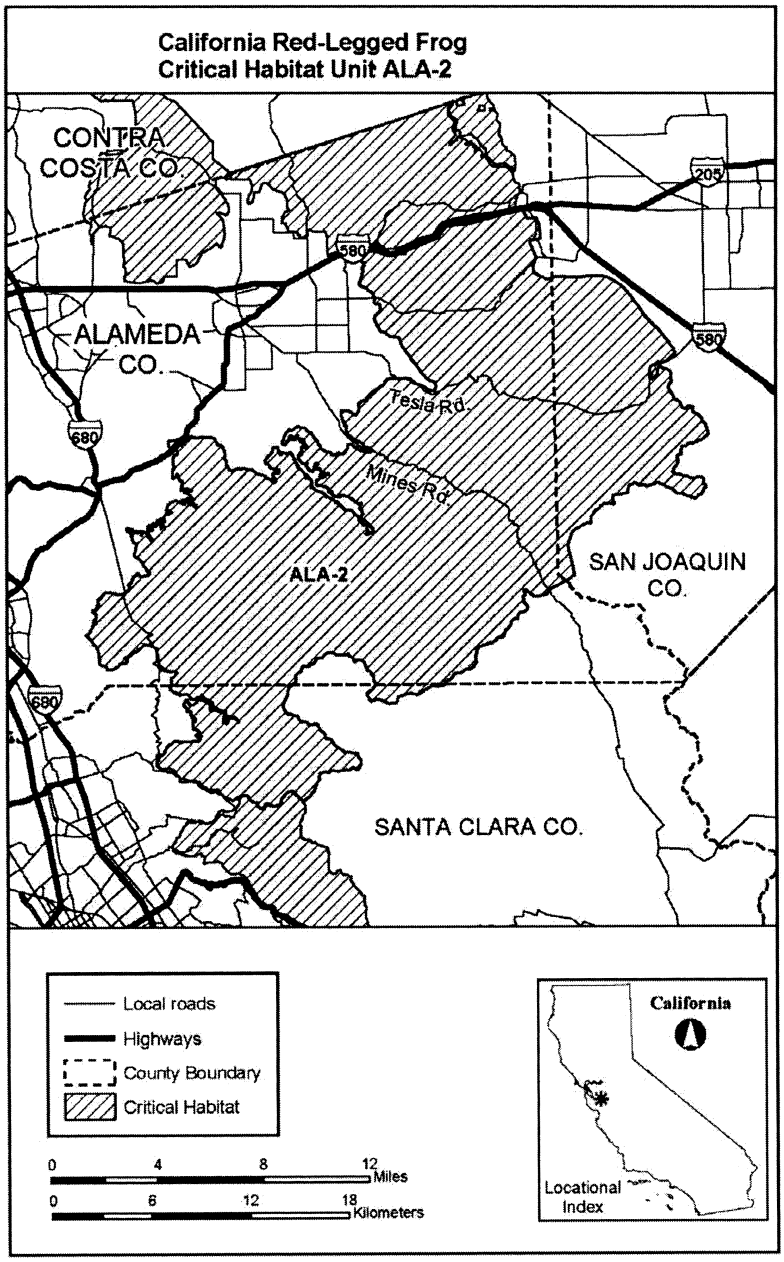
(ii) Map of Unit ALA-1, subunits ALA-1A and ALA-1B, for the California red-legged frog follows:



(27) Unit ALA-2: Alameda, Santa Clara and San Joaquin Counties, California. From USGS 1:24,000 scale quadrangles Niles, La Costa Valley, Calaveras Reservoir, Altamont, Mendenhall Springs, Mt. Day, Midway, Cedar Mtn., Tracy, Lone Tree Creek and Eylar Mountain.

(i) [Reserved]

(ii) Map of Unit ALA-2 for the California red-legged frog follows:



(28) Unit SNM-1: San Mateo County, California. From USGS 1:24,000 scale quadrangles Montara Mountain, Half Moon Bay, San Mateo and Woodside.

(i) Unit SNM–1 excludes land bounded by the following UTM Zone 10, NAD83 coordinates (E, N):

(A) 549620, 4162507; 549728, 4162401; 549733, 4162310; 549683, 4162274; 549645, 4162279; 549425, 4162399; 549337, 4162318; 549333, 4162206; 549471, 4161976; 549525, 4161940; 549606, 4161951; 549662, 4161921; 549738, 4161921; 549790, 4161808; 549961, 4161760; 549981, 4161667; 549936, 4161577; 550072, 4161454; 550273, 4161361; 550401, 4161273; 550411, 4161245; 550383, 4161187; 550284, 4161178; 550229, 4161142; 550232, 4161107; 550278, 4161061; 550265, 4160978; 550296, 4160957; 550492, 4160966; 550678, 4160838; 550717, 4160754; 550720, 4160671; 550687, 4160604; 550718, 4160544; 550642, 4160424; 550503, 4160326; 550549, 4160316; 550788, 4160361; 550839, 4160318; 550799, 4160219; 550867, 4160247; 551032, 4160256; 551116, 4160229; 551150, 4160166; 551254, 4160120; 551344, 4159994; 551357, 4159933; 551294, 4159806; 551508, 4159782; 551595, 4159711; 551646, 4159623; 551441, 4159474; 551439, 4159451; 551668, 4159445; 551731, 4159463; 551897, 4159386; 552018, 4159435; 552054, 4159463; 552045, 4159580; 552096, 4159641; 552077, 4159681; 551989, 4159676; 551861, 4159820; 551881, 4159858; 551964, 4159881; 551967, 4159927; 551829, 4159929; 551816, 4160002; 551722, 4159971; 551646, 4160052; 551643, 4160146; 551561, 4160173; 551525, 4160211; 551412, 4160393; 551447, 4160589; 551385, 4160624; 551415, 4160711; 551397, 4160774; 551341, 4160817; 551329, 4160715; 551311, 4160685; 551266, 4160674; 551055, 4160965; 551009, 4161066; 551003, 4161183; 550912, 4161188; 550873, 4161215; 550765, 4161415; 550679, 4161473; 550553, 4161622; 550578, 4161686; 550432, 4161883; 550432, 4161911; 550307, 4162062; 550094, 4162246; 549866, 4162573; 549757, 4162635; 549715, 4162724; 549544, 4162890; 549421, 4163070; 549362, 4163128; 549301, 4163145; 549351, 4162963; 549402, 4162869; 549563, 4162687; returning to 549620, 4162507.

(B) 549220, 4157011; 549541, 4156838; 549722, 4156775; 549735, 4156697; 549801, 4156710; 549883, 4156632; 549886, 4156573; 549977, 4156553; 550000, 4156528; 550158, 4156504; 550288, 4156436; 550357, 4156345; 550347, 4156266; 550457, 4156277; 550492, 4156234; 550495, 4156194; 550420, 4156053; 550582, 4156065; 550631, 4156017; 550684, 4156004; 550738, 4155941; 550809, 4155916; 550841, 4155787; 550925, 4155803; 551002, 4155930; 551019, 4156093; 551077, 4156152; 551073, 4156327; 551032, 4156400; 551040, 4156464; 550998, 4156603; 550857, 4156826; 550788, 4156876; 550768, 4156856; 550806, 4156762; 550914, 4156646; 550936, 4156369; 550988, 4156222; 550986, 4156177; 550940, 4156123; 550708, 4156302; 550626, 4156334; 550616, 4156367; 550384, 4156493; 550300, 4156553; 550297, 4156578; 550218, 4156578; 550172, 4156621; 550063, 4156618; 549941, 4156723; 549933, 4156777; 549876, 4156814; 549576, 4156911; 549550, 4156944; 549555, 4157013; 549474, 4156969; 549416, 4156974; 549204, 4157059; returning to 549220, 4157011.

(C) 554142, 4155908; 554257, 4155782; 554311, 4155675; 554264, 4155586; 554381, 4155549; 554414, 4155493; 554518, 4155471; 554527, 4155397; 554641, 4155337; 554746, 4155191; 554701, 4155114; 554798, 4155071; 554842, 4154935; 554782, 4154761; 554914, 4154795; 554950, 4154775; 554920, 4154722; 555022, 4154651; 555084, 4154509; 555230, 4154328; 555279, 4154214; 555309, 4154193; 555413, 4154197; 555439, 4154108; 555369, 4154054; 555329, 4153947; 555293, 4153942; 555250, 4153982; 555184, 4153984; 555094, 4154029; 555056, 4154088; 554883, 4154165; 554832, 4154145; 554702, 4154172; 554646, 4154240; 554336, 4154291; 554257, 4154362; 554255, 4154245; 554318, 4154248; 554555, 4154173; 554586, 4154107; 554652, 4154090; 554841, 4153964; 555218, 4153835; 555223, 4153761; 555356, 4153696; 555397, 4153653; 555420, 4153577; 555501, 4153590; 555526, 4153695; 555693, 4153711; 555904, 4153415; 556072, 4153271; 556063, 4153182; 555943, 4153217; 556034, 4152959; 556026, 4152910; 555996, 4152895; 555856, 4152935; 555854, 4152909; 555992, 4152788; 556078, 4152756; 556331, 4152585; 556318, 4152547; 556184, 4152574; 556174, 4152538; 556235, 4152493; 556286, 4152488; 556279, 4152435; 556373, 4152428; 556444, 4152362; 556450, 4152283; 556488, 4152197; 556382, 4152194; 556425, 4152138; 556499, 4152098; 556517, 4152025; 556574, 4151989; 556576, 4151956; 556513, 4151890; 556555, 4151751; 556608, 4151715; 556681, 4151881; 556790, 4151955; 556861, 4151946; 557012, 4151776; 557051, 4151695; 557125, 4151632; 557070, 4151495; 557095, 4151457; 557133, 4151460; 557224, 4151552; 557295, 4151667; 557302, 4151720; 557154, 4151833; 557154, 4151861; 557253, 4151844; 557347, 4151878; 557346, 4151923; 557269, 4152007; 557112, 4152067; 557104, 4152095; 556976, 4152193; 556775, 4152285; 556790, 4152321; 556871, 4152332; 556871, 4152367; 556827, 4152405; 556850, 4152446; 556842, 4152489; 556777, 4152679; 556721, 4152755; 556657, 4152793; 556697, 4152889; 556634, 4152881; 556593, 4152919; 556600, 4152998; 556529, 4153023; 556475, 4153091; 556480, 4153132; 556543, 4153186; 556459, 4153213; 556382, 4153312; 556394, 4153456; 556363, 4153502; 556380, 4153596; 556313, 4153684; 556277, 4153796; 555971, 4153969; 555935, 4154093; 555871, 4154136; 555878, 4154256; 555852, 4154271; 555753, 4154255; 555674, 4154320; 555540, 4154299; 555476, 4154324; 555445, 4154453; 555381, 4154478; 555383, 4154504; 555457, 4154527; 555454, 4154563; 555322, 4154552; 555322, 4154582; 555393, 4154608; 555479, 4154713; 555435, 4154756; 555392, 4154715; 555273, 4154671; 555237, 4154721; 555260, 4154780; 555249, 4154889; 555195, 4154889; 555160, 4154924; 555144, 4154972; 555073, 4155038; 555031, 4155149; 554868, 4155306; 554798, 4155473; 554757, 4155485; 554678, 4155589; 554581, 4155647; 554540, 4155725; 554443, 4155780; 554312, 4156018; 554212, 4156101; 554216, 4156203; 554150, 4156246; 554073, 4156436; 553940, 4156567; 553911, 4156648; 553816, 4156762; 553750, 4156804; 553769, 4156678; 553739, 4156596; 553800, 4156508; 553829, 4156414; 553870, 4156363; 553957, 4156321; 553927, 4156252; 553988, 4156194; returning to 554142, 4155908.

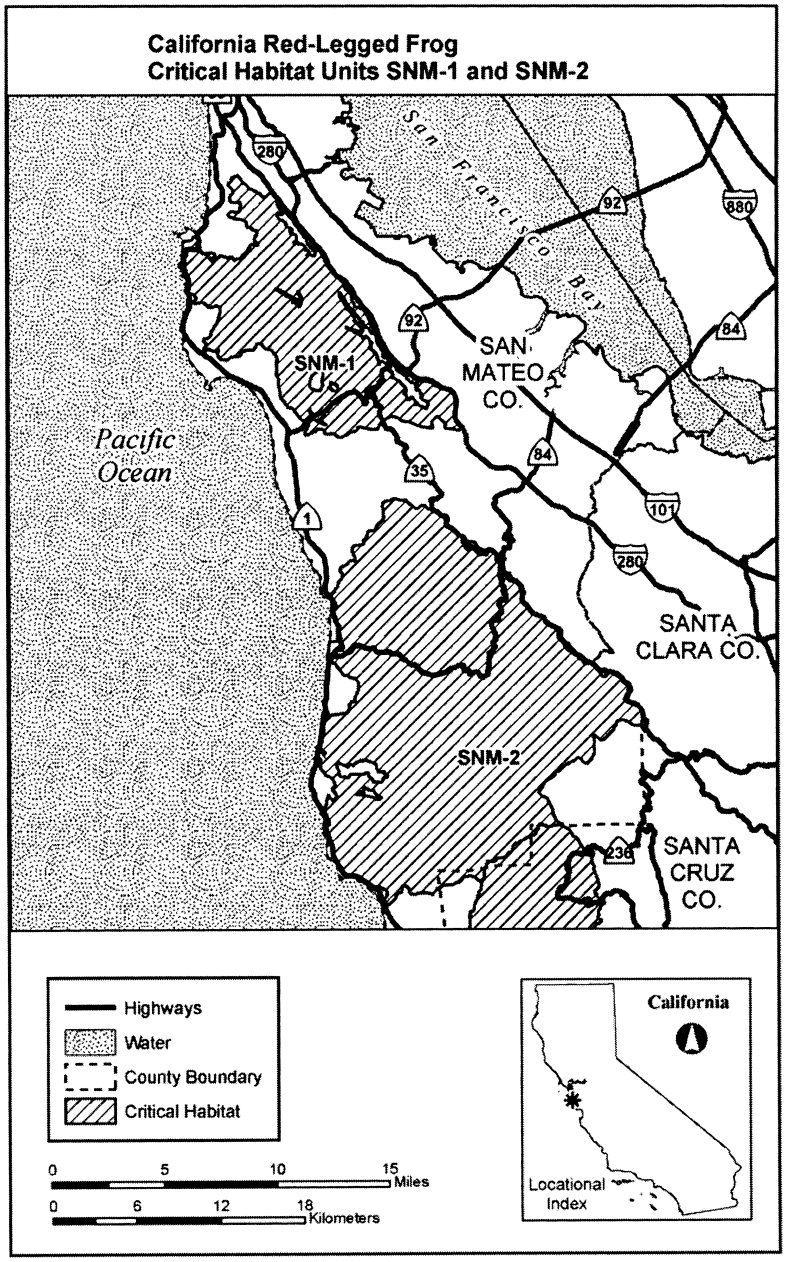
(D) 557286, 4151491; 557284, 4151443; 557322, 4151364; 557308, 4151220; 557354, 4151200; 557448, 4151241; 557468, 4151231; 557519, 4151124; 557482, 4151012; 557579, 4150995; 557549, 4150901; 557402, 4150804; 557674, 4150729; 557846, 4150565; 558016, 4150559; 558080, 4150479; 558080, 4150410; 558119, 4150362; 558354, 4150158; 558464, 4150021; 558452, 4150001; 558511, 4149920; 558501, 4149798; 558327, 4149700; 558320, 4149637; 558498, 4149539; 558528, 4149270; 558566, 4149227; 558752, 4149193; 558763, 4149353; 558908, 4149377; 559299, 4148970; 559307, 4148937; 559274, 4148929; 559116, 4148982; 559081, 4148918; 559133, 4148840; 559171, 4148845; 559170, 4148903; 559198, 4148914; 559270, 4148863; 559369, 4148854; 559494, 4148740; 559616, 4148761; 559674,

4148739; 559731, 4148633; 559955, 4148581; 559947, 4148665; 560032, 4148830; 560049, 4148917; 560013, 4148990; 560025, 4149077; 559906, 4149091; 559778, 4149222; 559737, 4149169; 559702, 4149166; 559664, 4149201; 559510, 4149358; 559532, 4149444; 559656, 4149488; 559592, 4149635; 559506, 4149650; 559480, 4149680; 559397, 4149898; 559341, 4149908; 559250, 4149879; 559191, 4149907; 559193, 4150034; 559128, 4150206; 559186, 4150267; 559296, 4150283; 559287, 4150377; 559074, 4150340; 558886, 4150433; 558753, 4150470; 558712, 4150521; 558673, 4150642; 558549, 4150664; 558505, 4150712; 558492, 4150857; 558580, 4150870; 558595, 4150946; 558493, 4150945; 558405, 4150912; 558170, 4151042; 558170, 4151088; 558119, 4151123; 557994, 4151156; 557767, 4151360; 557737, 4151586; 557620, 4151648; 557584, 4151709; 557594, 4151780; 557444, 4151759; 557409, 4151647; returning to 557286, 4151491.

(E) 553227, 4150371; 553132, 4150480; 553085, 4150414; 553085, 4150180; 552935, 4150096; 553085, 4150049; 553319, 4149834; 553553, 4149834; 553646, 4150049; 553581, 4150264; returning to 553227, 4150371.

(F) 552570, 4150315; 552477, 4150517; 552589, 4150966; 552563, 4151254; 552664, 4151452; 552664, 4151733; 552524, 4151686; 552222, 4151263; 551991, 4151097; 551766, 4150854; 551617, 4150480; 551617, 4150115; 551813, 4149956; 552165, 4149863; 552374, 4149890; returning to 552570, 4150315.

(ii) Map of Units SNM-1 and SNM-2 for the California red-legged frog follows:



(29) Unit SNM-2: San Mateo and Santa Cruz Counties, California. From USGS 1:24,000 scale quadrangles Half Moon Bay, San Gregorio, Pigeon Point, Woodside, La Honda, Franklin Point, Mindego Hill and Big Basin.

(i) Unit SNM–2 excludes land bounded by the following UTM Zone 10, NAD83 coordinates (E, N):

(A) 555483, 4121713; 555388, 4121749; 555388, 4121320; 555235, 4121428; 555083, 4121390; 554981, 4121263; 554873, 4121256; 554937, 4121205; 555387, 4121177; 556034, 4121027; 556340, 4120843; 556518, 4120862; 556658, 4120996; 556400, 4121122; 556169, 4121332; 556086, 4121497; 555687, 4121566; 555584, 4121675; returning to 555483, 4121713.

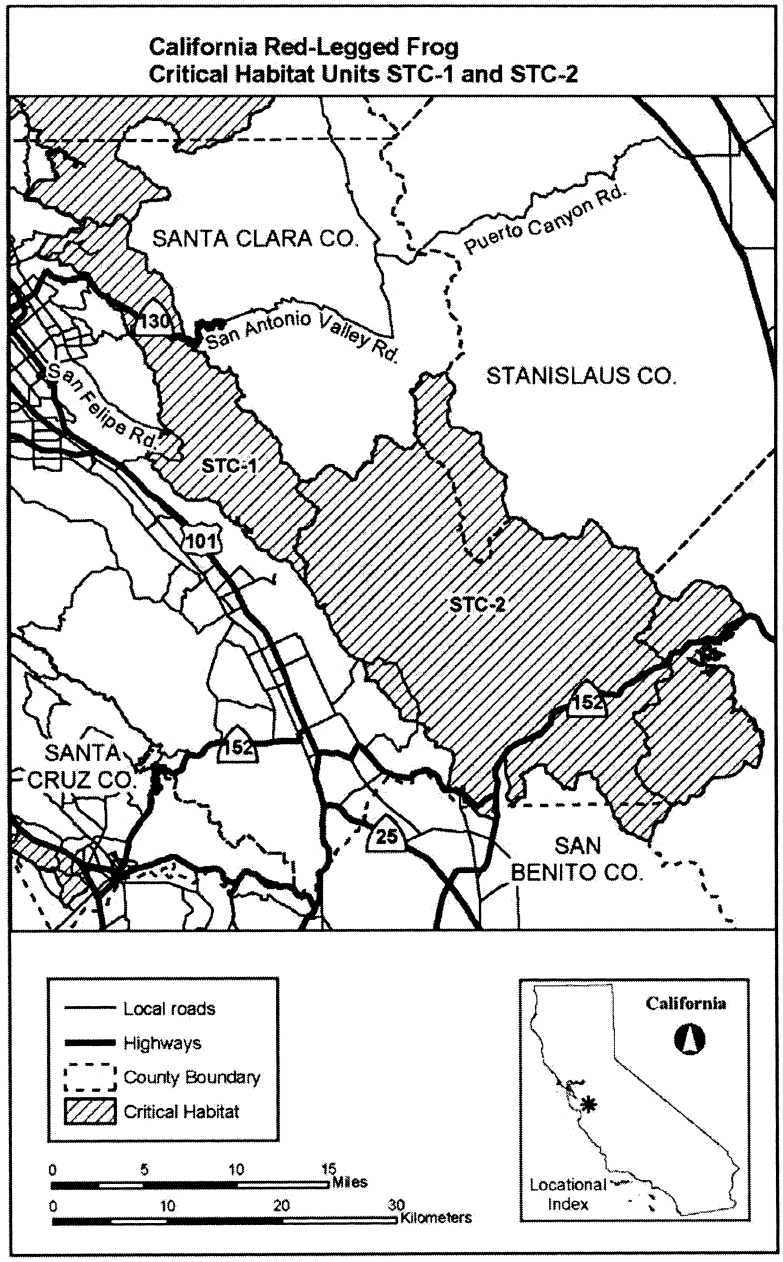
(B) 556092, 4122063; 556218, 4122107; 556645, 4122069; 556727, 4122152; 556746, 4122317; 556816, 4122418; 557032, 4122456; 557089, 4122533; 556873, 4122695; 556861, 4122837; 556467, 4122821; 556281, 4123125; 556289, 4123256; 556226, 4123422; 555497, 4123687; 555358, 4123614; 555261, 4123663; 555032, 4123593; 554691, 4123369; 554690, 4123310; 554656, 4123262; 554596, 4123352; 554359, 4123364; 554270, 4123180; 553600, 4123504; 553555, 4123410; 553375, 4123390; 553635, 4122920; 553644, 4122708; 553715, 4122548; 553839, 4122460; 554062, 4122505; 554165, 4122407; 554289, 4122418; 554447, 4122645; 555312, 4122656; 555578, 4122761; 555705, 4122761; 555756, 4122507; 556003, 4122317; returning to 556092, 4122063.

(ii) Unit SNM-2 for California red-legged frog is depicted on the map in paragraph (28)(ii) of this entry.

(30) Unit STC-1: Santa Clara County, California. From USGS 1:24,000 scale quadrangles Calaveras Reservoir, San Jose East, Mt. Day, Lick Observatory, Morgan Hill, Isabel Valley and Mt. Sizer.

(i) [Reserved]

(ii) Map of Units STC-1 and STC-2 for the California red-legged frog follows:



(31) Unit STC-2: Santa Clara, Merced, Stanislaus and San Benito Counties, California. From USGS 1:24,000 scale quadrangles Mt. Sizer, Gilroy, Mt. Stakes, Mississippi Creek, Gilroy Hot Springs, San Felipe, Mustang Peak, Pacheco Peak, Three Sisters, Crevision Peak, Pacheco Pass and Mariposa Peak.

(i) [Reserved]

(ii) Unit STC-2 for California red-legged frog is depicted on the map in paragraph (30)(ii) of this entry.

(32) Unit SCZ-1: Santa Cruz and San Mateo Counties, California. From USGS 1:24,000 scale quadrangles Franklin Point, Ano Nuevo, Big Basin, Davenport, Felton and Santa Cruz.

(i) Unit SCZ–1 excludes land bounded by the following UTM Zone 10, NAD83 coordinates (E, N):

(A) 573194, 4098886; 573212, 4098861; 573233, 4098878; 573215, 4098903; returning to 573194, 4098886.

(B) 573580, 4098341; 573624, 4098338; 573660, 4098454; 573623, 4098464; returning to 573580, 4098341.

(C) 574941, 4098271; 574925, 4098209; 575067, 4098224; returning to 574941, 4098271.

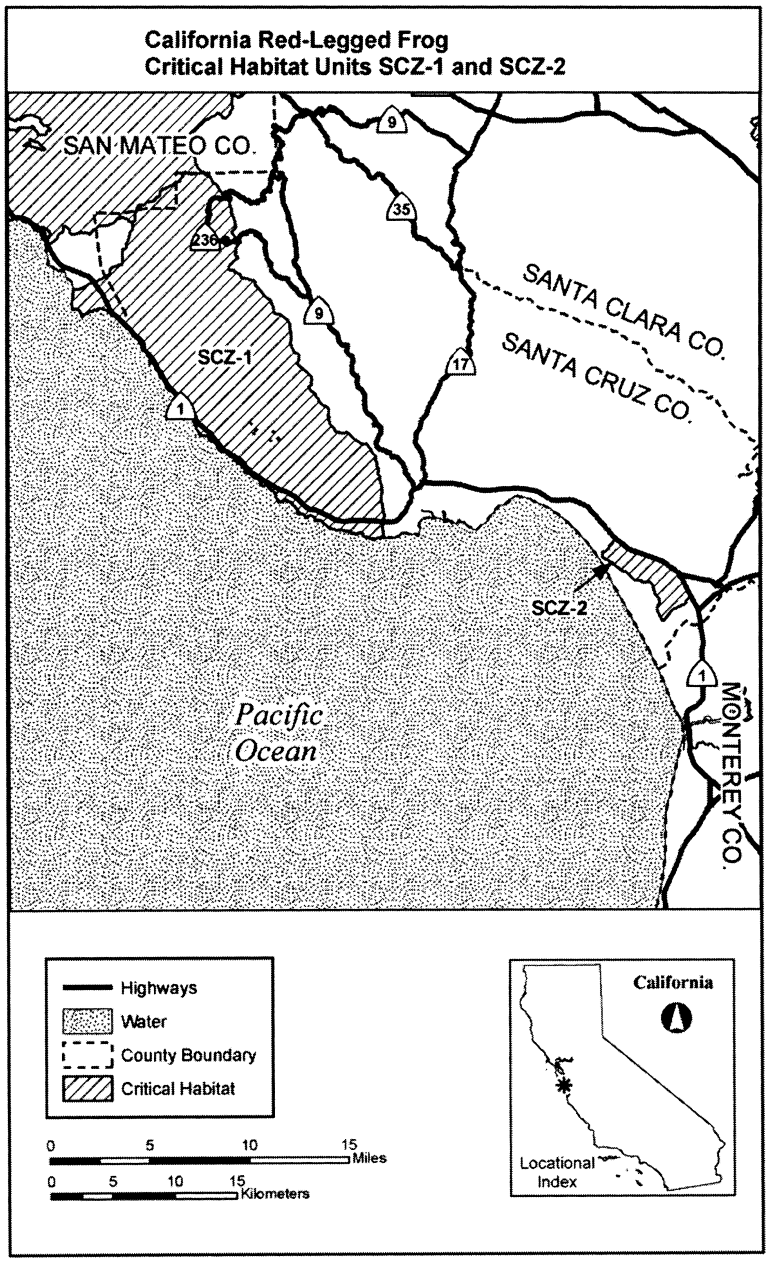
(D) 573381, 4098107; 573397, 4098073; 573480, 4098118; 573464, 4098150; returning to 573381, 4098107.

(E) 575347, 4097747; 575349, 4097646; 575448, 4097670; 575379, 4097752; returning to 575347, 4097747.

(F) 575388, 4097590; 575394, 4097549; 575456, 4097559; 575440, 4097610; returning to 575388, 4097590.

(G) 574744, 4097505; 574777, 4097483; 574803, 4097522; 574771, 4097541; returning to 574744, 4097505.

(ii) Map of Units SCZ-1 and SCZ-2 for the California red-legged frog follows:



(33) Unit SCZ-2: Santa Cruz County, California. From USGS 1:24,000 scale quadrangle Watsonville West.

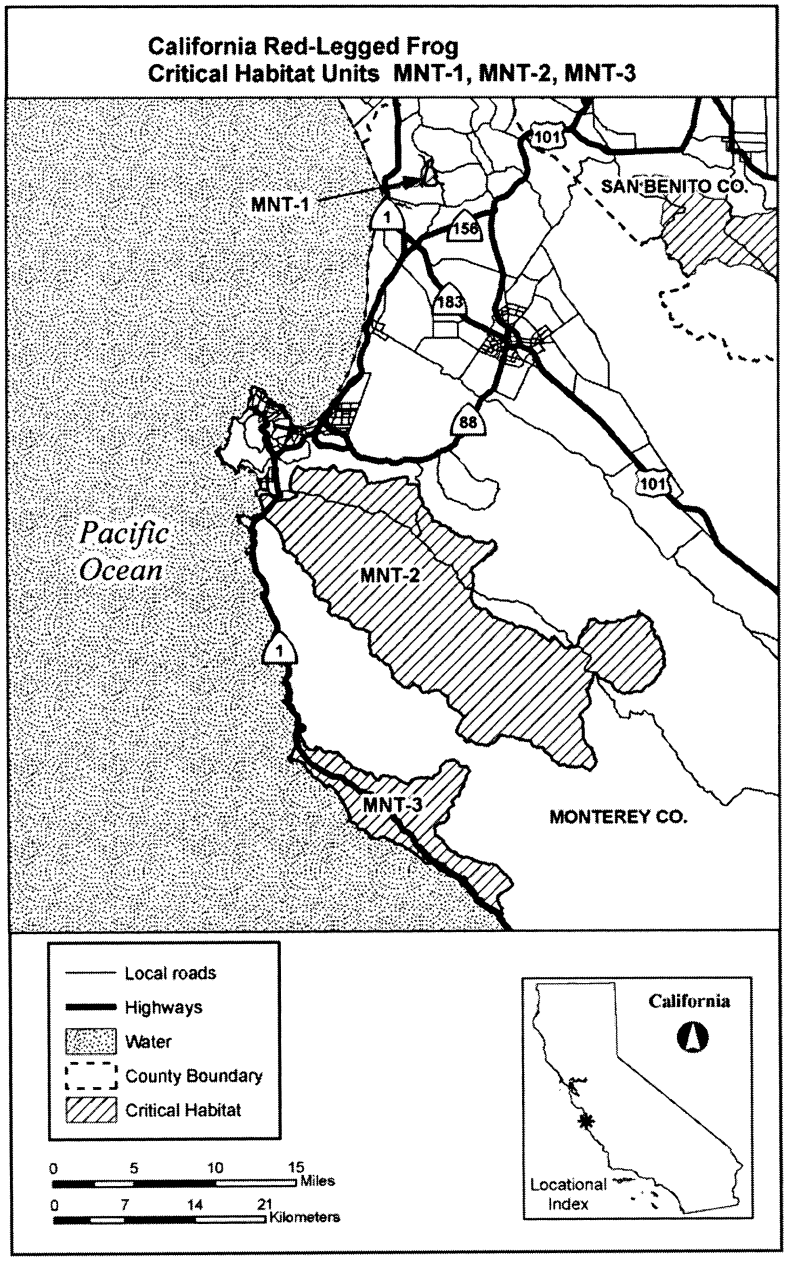
(i) [Reserved]

(ii) Unit SCZ-2 for California red-legged frog is depicted on the map in paragraph (32)(iii) of this entry.

(34) Unit MNT-1: Monterey County, California. From USGS 1:24,000 scale quadrangle Prunedale.

(i) [Reserved]

(ii) Map of Units MNT-1, MNT-2, and MNT-3 for the California red-legged frog follows:



(35) Unit MNT-2: Monterey County, California. From USGS 1:24,000 scale quadrangles Monterey, Soberanes Point, Seaside, Mt. Carmel, Big Sur, Spreckles, Carmel Valley, Ventana Cones, Rana Creek, Chews Ridge, Palo Escrito Peak and Sycamore Flat.

(i) [Reserved]

(ii) Unit MNT-2 for California red-legged frog is depicted on the map in paragraph (34)(ii) of this entry.

(36) Unit MNT-3: Monterey County, California. From USGS 1:24,000 scale quadrangles Point Sur, Big Sur, Pfeiffer Point, Ventana Cones and Partington Ridge.

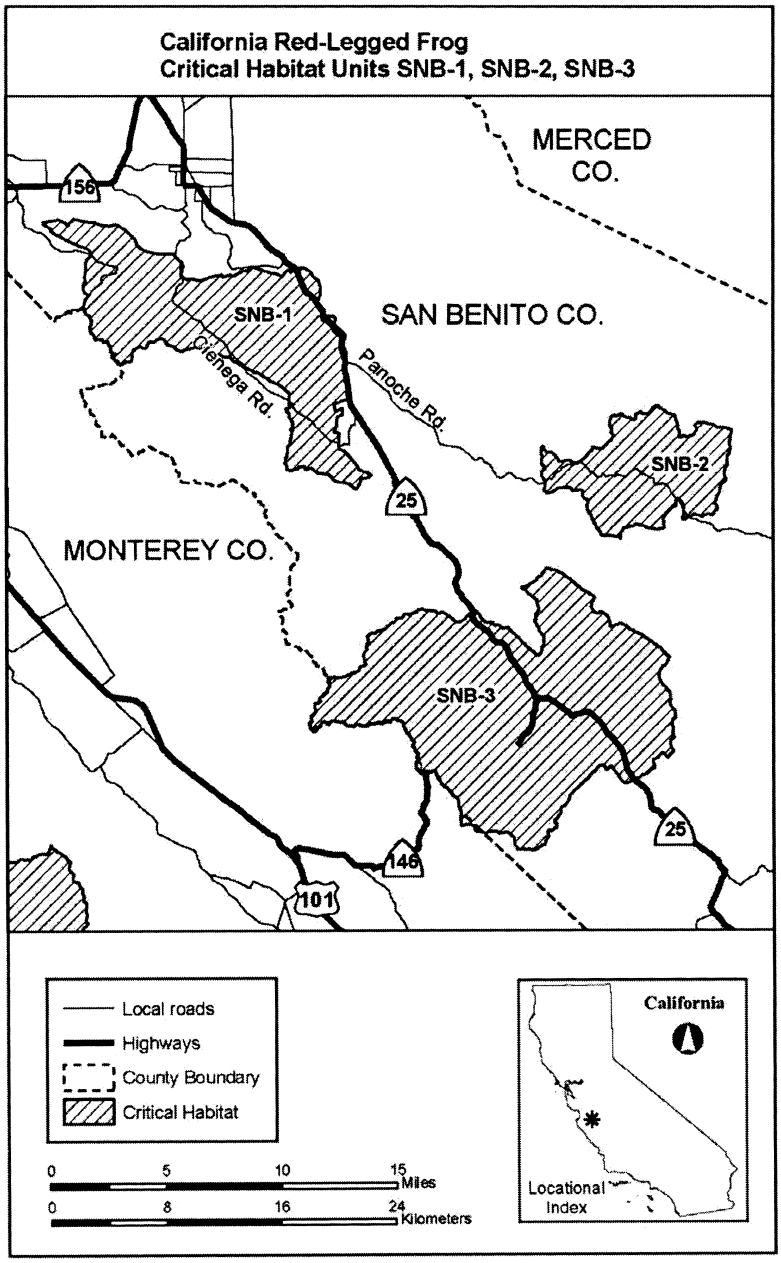
(i) [Reserved]

(ii) Unit MNT-3 for California red-legged frog is depicted on the map in paragraph (34)(ii) of this entry.

(37) Unit SNB-1: San Benito County, California. From USGS 1:24,000 scale quadrangles San Juan Bautista, Hollister, Mt. Harlan, Tres Pinos and Pacines.

(i) [Reserved]

(ii) Map of Units SNB-1, SNB-2, and SNB-3 for the California red-legged frog follows:



(38) Unit SNB-2: San Benito County, California. From USGS 1:24,000 scale quadrangles Cherry Peak, Panoche Pass, San Benito and Cerro Colorado.

(i) [Reserved]

(ii) Unit SNB-2 for California red-legged frog is depicted on the map in paragraph (37)(ii) of this entry.

(39) Unit SNB-3: San Benito and Monterey Counties, California. From USGS 1:24,000 scale quadrangles Mount Johnson, Bickmore Canyon, North Chalone Peak, San Benito and Topo Valley.

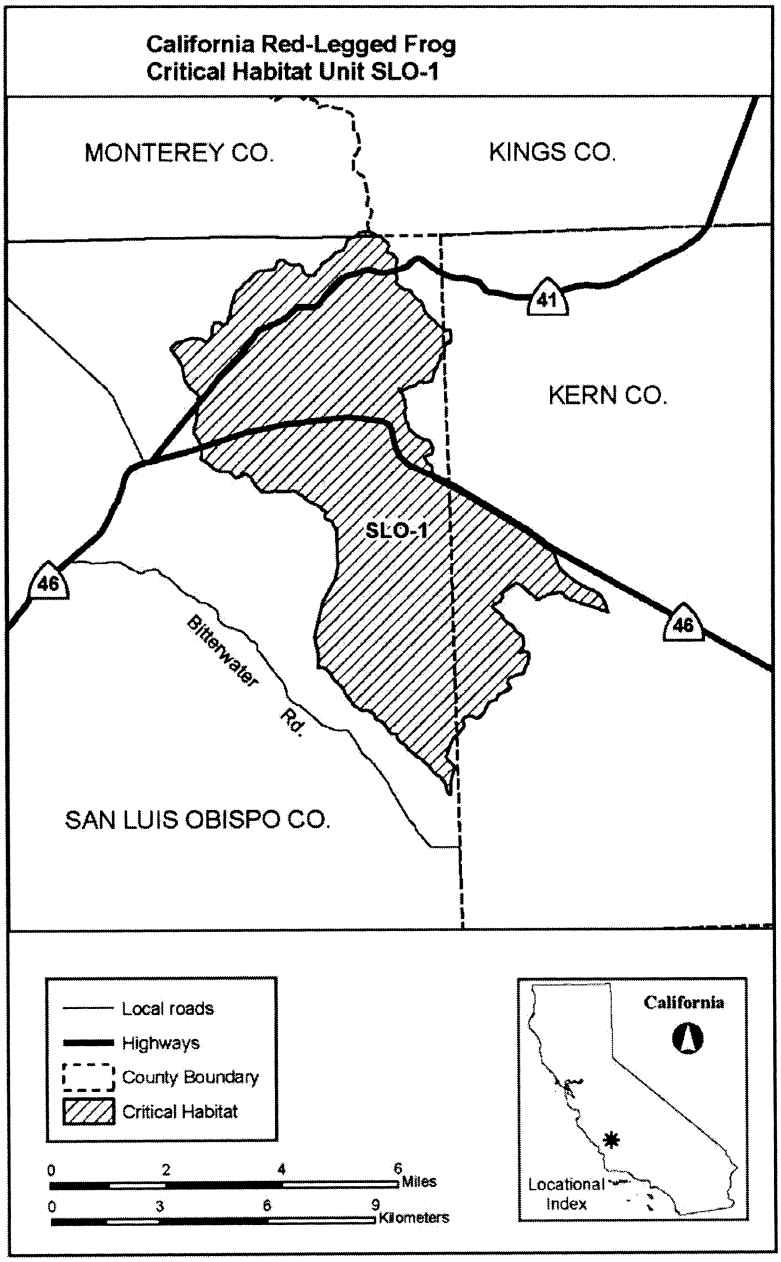
(i) [Reserved]

(ii) Unit SNB-3 for California red-legged frog is depicted on the map in paragraph (37)(ii) of this entry.

(40) Unit SLO-1: San Luis Obispo, Kings and Kern Counties, California. From USGS 1:24,000 scale quadrangles Cholame Valley, Tent Hills, Cholame and Orchard Peak.

(i) [Reserved]

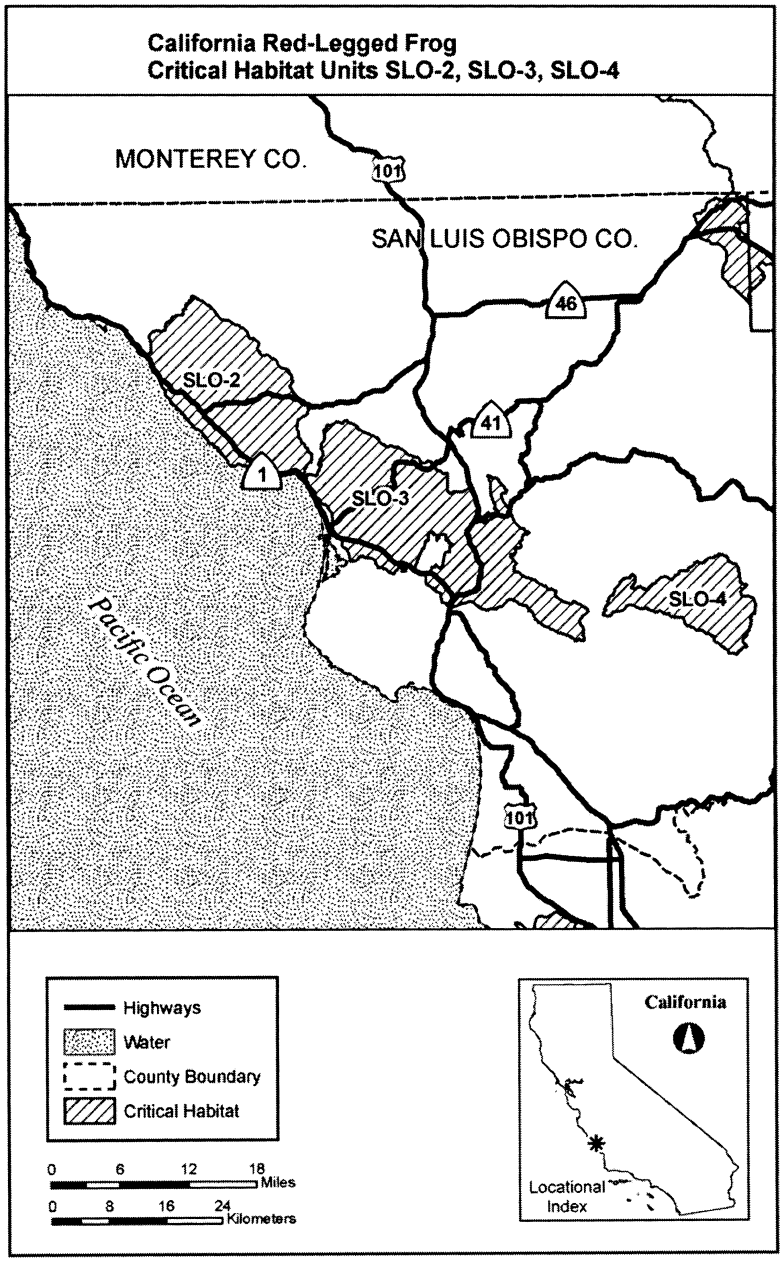
(ii) Map of Unit SLO-1 for the California red-legged frog follows:



(41) Unit SLO-2: San Luis Obispo County, California. From USGS 1:24,000 scale quadrangles San Simeon, Pico Creek, Pebblestone Shut-In, Cambria, Cypress Mountain and Cayucos.

(i) [Reserved]

(ii) Map of Units SLO-2, SLO-3, and SLO-4 for the California red-legged frog follows:



(42) Unit SLO-3: San Luis Obispo County, California. From USGS 1:24,000 scale quadrangles Cayucos, York Mountain, Morro Bay North, Morro Bay South, Atascadero, San Luis Obispo, Santa Margarita, Lopez Mtn., Arroyo Grande NE, Santa Margarita Lake and Tar Spring Ridge.

(i) [Reserved]

(ii) Unit SLO-3 for California red-legged frog is depicted on the map in paragraph (41)(ii) of this entry.

(43) Unit SLO-4: San Luis Obispo County, California. From USGS 1:24,000 scale quadrangles Santa Margarita Lake, Pozo Summit, Caldwell Mesa, La Panza and Los Machos Hills.

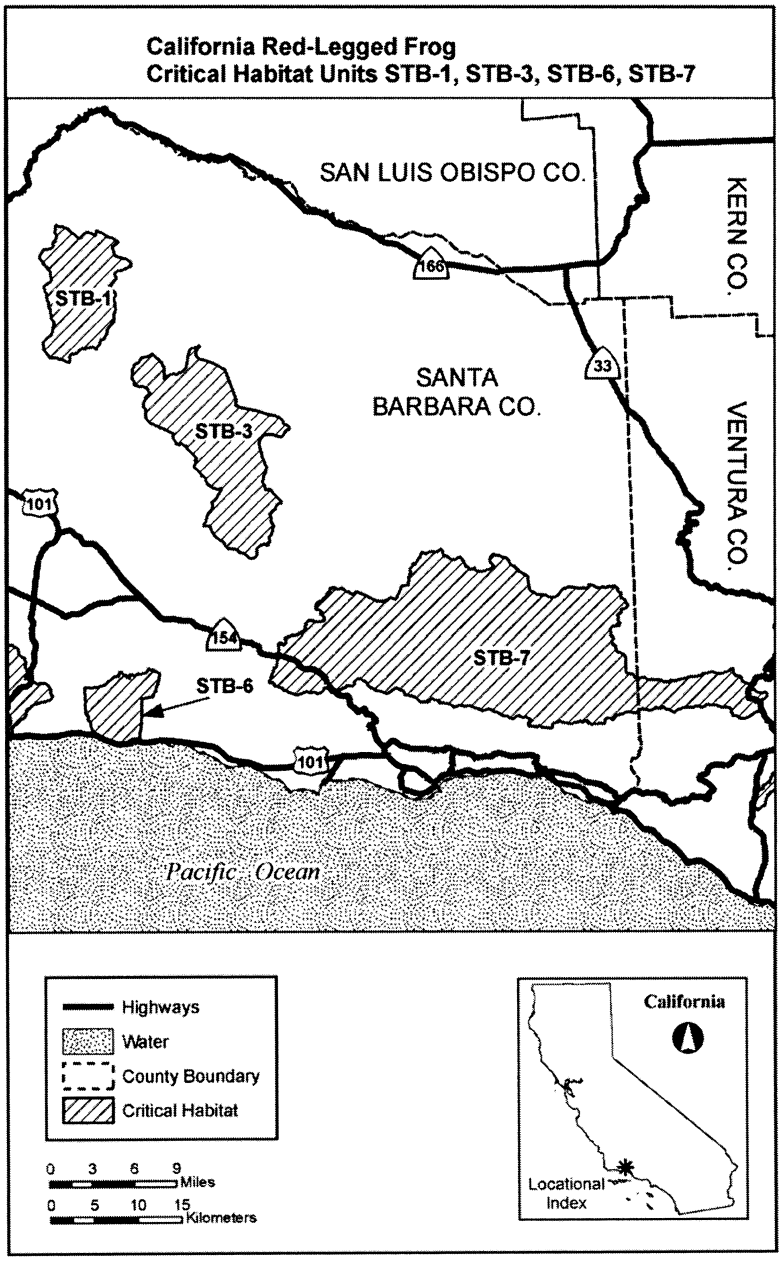
(i) [Reserved]

(ii) Unit SLO-4 for California red-legged frog is depicted on the map in paragraph (41)(ii) of this entry.

(44) Unit STB-1: Santa Barbara County, California. From USGS 1:24,000 scale quadrangles Tepusquet Canyon, Foxen Canyon, Manzanita Mountain and Zaca Lake.

(i) [Reserved]

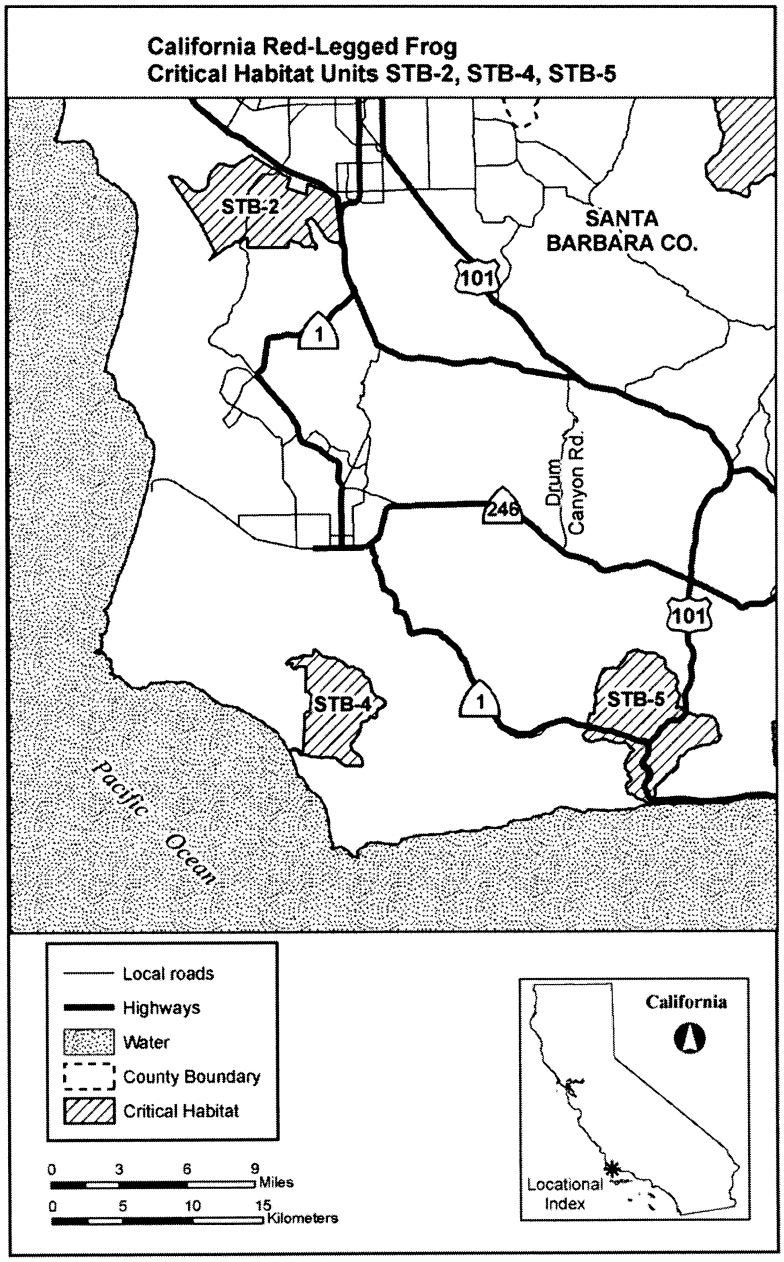
(ii) Map of Units STB-1, STB-3, STB-6, and STB-7 for the California red-legged frog follows:



(45) Unit STB-2: Santa Barbara County, California. From USGS 1:24,000 scale quadrangles Guadalupe, Casmalia, Santa Maria and Orcutt.

(i) [Reserved]

(ii) Map of Units STB-2, STB-4, and STB-5 for the California red-legged frog follows:



(46) Unit STB-3: Santa Barbara County, California. From USGS 1:24,000 scale quadrangle Zaca Lake.

(i) [Reserved]

(ii) Unit STB-3 for California red-legged frog is depicted on the map in paragraph (44)(ii) of this entry.

(47) Unit STB-4: Santa Barbara County, California. From USGS 1:24,000 scale quadrangles Tranquillon Mountain. and Lompoc Hills.

(i) [Reserved]

(ii) Unit STB-4 for California red-legged frog is depicted on the map in paragraph (45)(ii) of this entry.

(48) Unit STB-5: Santa Barbara County, California. From USGS 1:24,000 scale quadrangles Santa Rosa Hills, Solvang and Gaviota.

(i) [Reserved]

(ii) Unit STB-5 for California red-legged frog is depicted on the map in paragraph (45)(ii) of this entry.

(49) Unit STB-6: Santa Barbara County, California. From USGS 1:24,000 scale quadrangles Solvang, Gaviota, Santa Ynez and Tajiguas.

(i) [Reserved]

(ii) Unit STB-6 for California red-legged frog is depicted on the map in paragraph (44)(ii) of this entry.

(50) Unit STB-7: Santa Barbara and Ventura Counties, California. From USGS 1:24,000 scale quadrangles Lake Cachuma, San Marcos Pass, Big Pine Mtn., Little Pine Mtn., Santa Barbara, Madulce Peak, Hildreth Peak, Carpinteria, Old Man Mountain, White Ledge Peak, Wheeler Springs and Matilija.

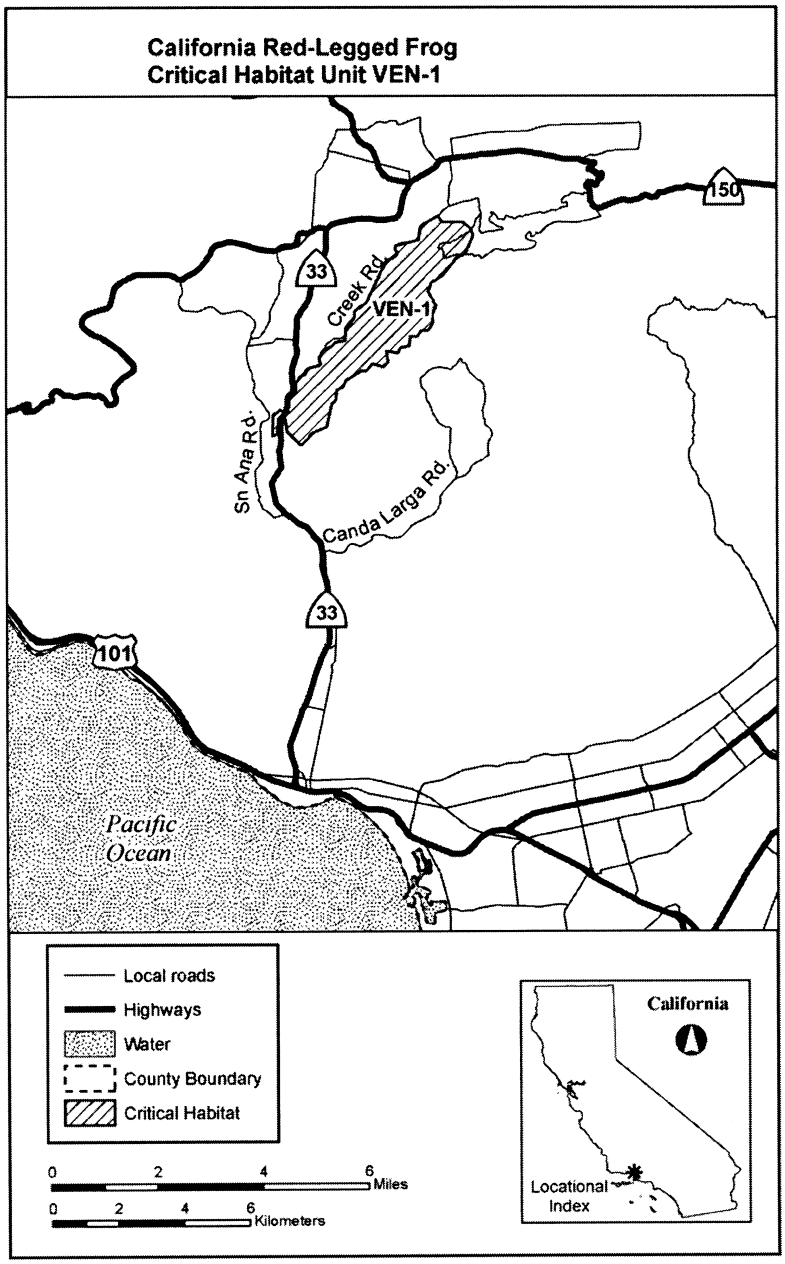
(i) [Reserved]

(ii) Unit STB-7 for California red-legged frog is depicted on the map in paragraph (44)(ii) of this entry.

(51) Unit VEN-1: Ventura County, California. From USGS 1:24,000 scale quadrangles Matilija, Ventura and Ojai.

(i) [Reserved]

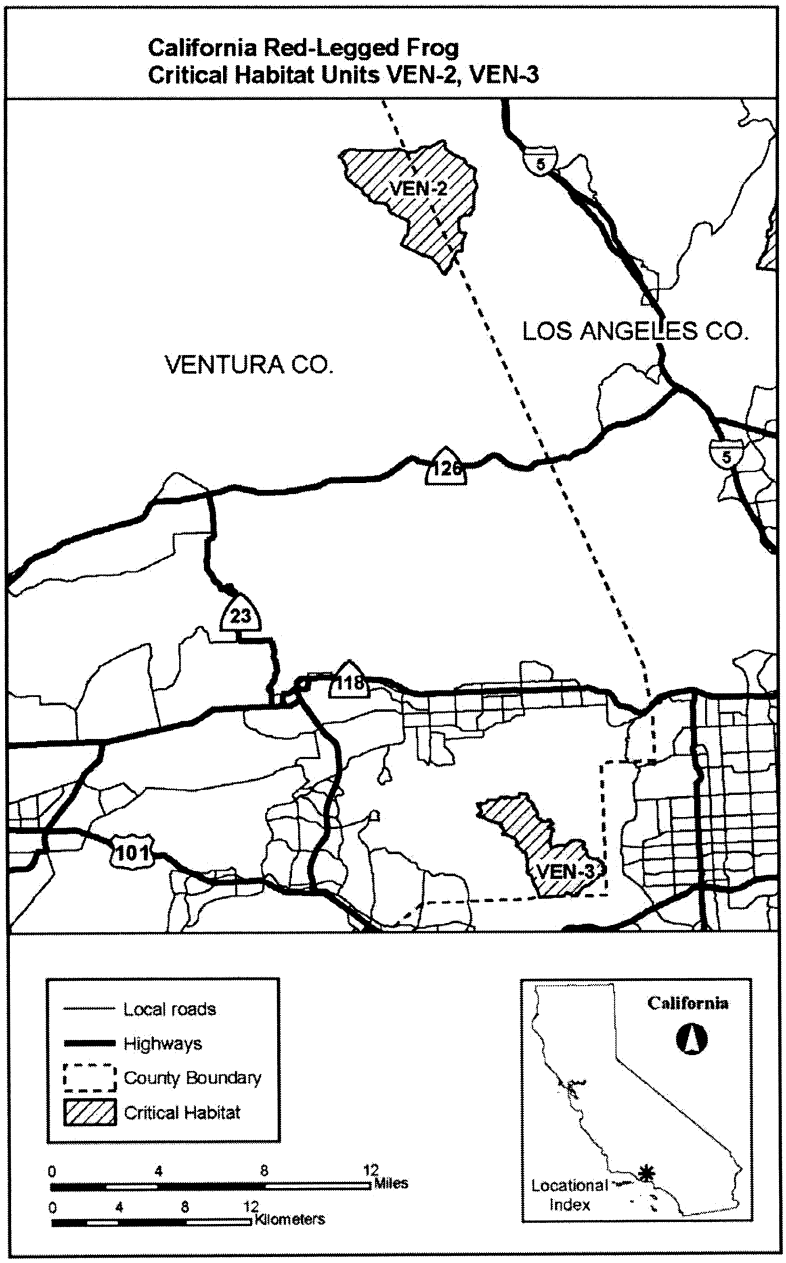
(ii) Map of Unit VEN-1 for the California red-legged frog follows:



(52) Unit VEN-2: Ventura and Los Angeles Counties, California. From USGS 1:24,000 scale quadrangles Cobblestone Mountain and Whitaker Peak.

(i) [Reserved]

(ii) Map of Units VEN-2 and VEN-3 for the California red-legged frog follows:



(53) Unit VEN-3: Ventura County, California. From USGS 1:24,000 scale quadrangle Calabasas.

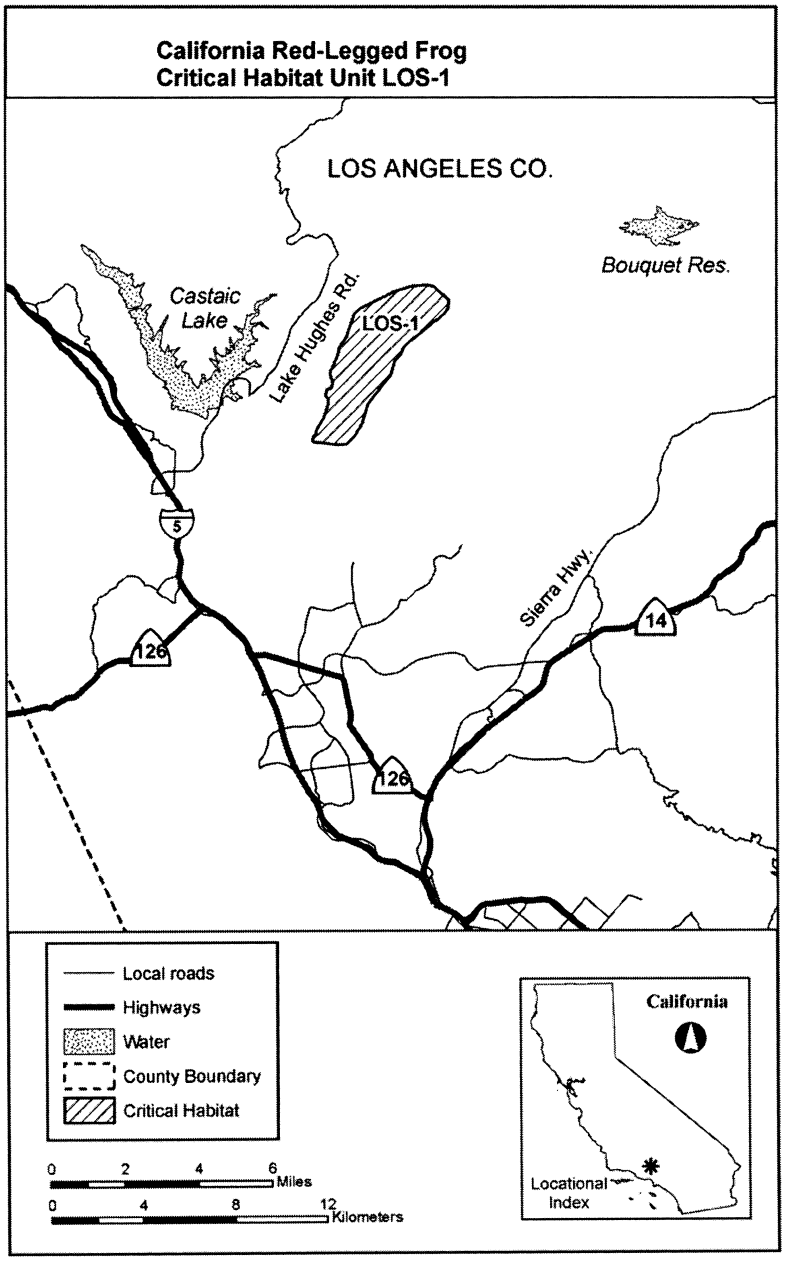
(i) [Reserved]

(ii) Unit VEN-3 for California red-legged frog is depicted on the map in paragraph (52)(ii) of this entry.

(54) Unit LOS-1: Los Angeles County, California. From USGS 1:24,000 scale quadrangles Warm Springs Mountain and Green Valley.

(i) [Reserved]

(ii) Map of Unit LOS-1 for the California red-legged frog follows:



CHIRICAHUA LEOPARD FROG (*Lithobates chiricahuensis*)

(1) Critical habitat units are depicted for Apache, Cochise, Gila, Graham, Greenlee, Pima, Santa Cruz, and Yavapai Counties, Arizona; and Catron, Grant, Hidalgo, Sierra, and Socorro Counties, New Mexico, on the maps below.

(2) Within these areas, the primary constituent elements of the physical or biological features essential to the conservation of the Chiricahua leopard frog are:

(i) Aquatic breeding habitat and immediately adjacent uplands exhibiting the following characteristics:

(A) Standing bodies of fresh water (with salinities less than 5 parts per thousand, pH greater than or equal to 5.6, and pollutants absent or minimally present), including natural and manmade (e.g., stock) ponds, slow-moving streams or pools within streams, off-channel pools, and other ephemeral or permanent water bodies that typically hold water or rarely dry for more than a month. 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 non-drought years.

(B) Emergent and or submerged vegetation, root masses, undercut banks, fractured rock substrates, or some combination thereof, but emergent vegetation does not completely cover the surface of water bodies.

(C) Nonnative predators (e.g., crayfish (*Orconectes virilis*), bullfrogs (*Lithobates catesbeianus*), nonnative predatory fish) absent or occurring at levels that do not preclude presence of the Chiricahua leopard frog.

(D) Absence of chytridiomycosis, or if present, then environmental, physiological, and genetic conditions are such that allow persistence of Chiricahua leopard frogs.

(E) Upland habitats that provide opportunities for foraging and basking that are immediately adjacent to or surrounding breeding aquatic and riparian habitat.

(ii) Dispersal and nonbreeding habitat, consisting of areas with ephemeral (present for only a short time), intermittent, or perennial water that are generally not suitable for breeding, and associated upland or riparian habitat that provides corridors (overland movement or along wetted drainages) for frogs among breeding sites in a metapopulation with the following characteristics:

(A) Are not more than 1.0 mile (1.6 kilometers) overland, 3.0 miles (4.8 kilometers) along ephemeral or intermittent drainages, 5.0 miles (8.0 kilometers) along perennial drainages, or some combination thereof not to exceed 5.0 miles (8.0 kilometers).

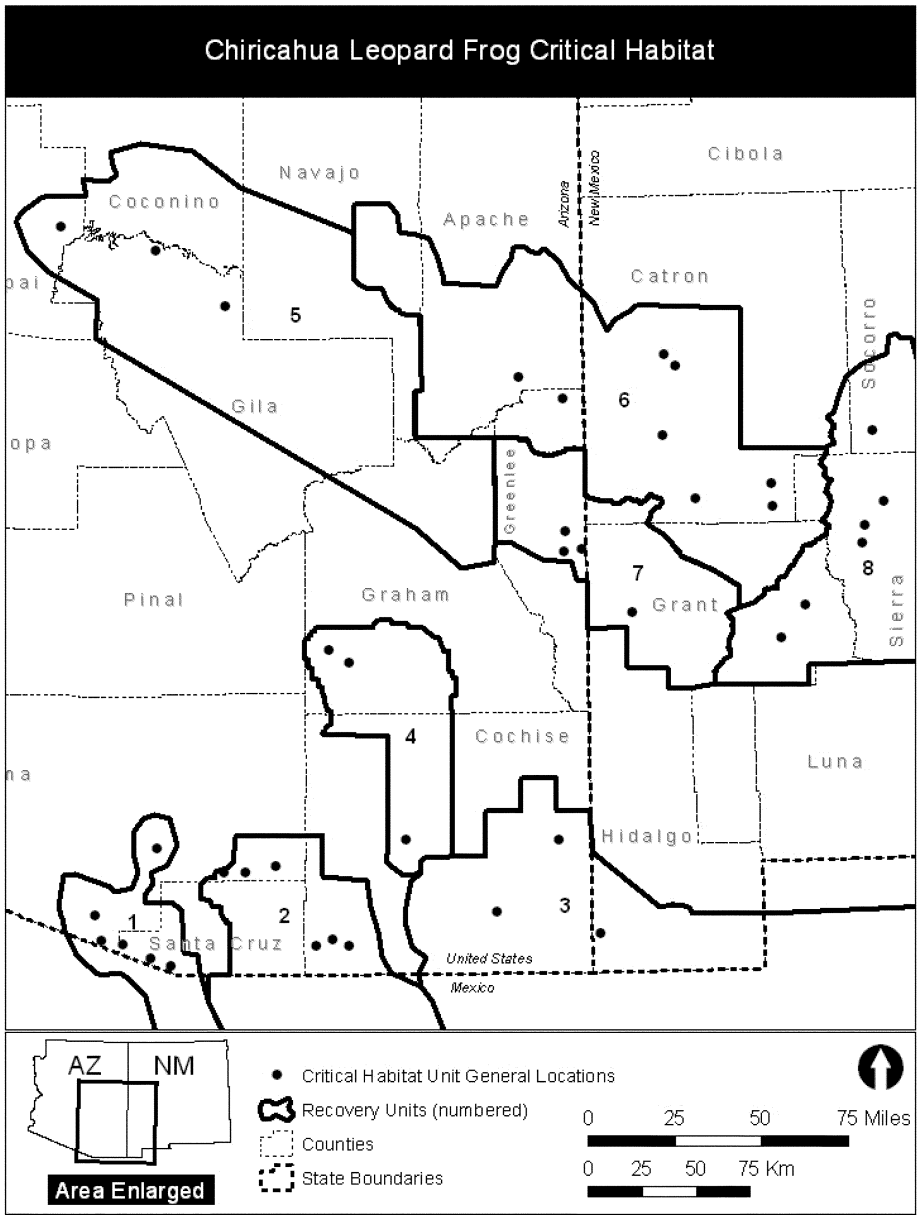
(B) In overland and nonwetted corridors, provide some vegetation cover or structural features (e.g., boulders, rocks, organic debris such as downed trees or logs, small mammal burrows, or leaf litter) for shelter, forage, and protection from predators; in wetted corridors, provide some ephemeral, intermittent, or perennial aquatic habitat.

(C) Are free of barriers that block movement by Chiricahua leopard frogs, including, but not limited to, urban, industrial, or agricultural development; reservoirs that are 50 acres (20 hectares) or more in size and contain predatory nonnative fish, bullfrogs, or crayfish; highways that do not include frog fencing and culverts; and walls, major dams, or other structures that physically block movement.

(3) With the exception of impoundments, livestock tanks and other constructed waters, critical habitat does not include manmade 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 on a base of USGS 7.5' quadrangles, the Service's online Lands Mapper, the U.S. Geological Survey National Hydrography Dataset, and imagery from Google Earth. Lentic water bodies were digitized from Google Earth imagery. Point locations for lentic water bodies (still or non-flowing water bodies) were calculated as the geographic centroids of the digitized polygons defining the critical habitat boundaries. Line locations for lotic streams (flowing water) and drainages are depicted as the ''Flowline'' feature class from the National Hydrography Dataset geodatabase. Overland connections were digitized from Google Earth imagery. Administrative boundaries for Arizona and New Mexico were obtained from the Arizona Land Resource Information Service and New Mexico Resource Geographic Information System, respectively. This includes the most current (as of the effective date of this rule) geospatial data available for land ownership, counties, States, and streets. Locations depicting critical habitat are expressed as decimal degree latitude and longitude in the World Geographic Coordinate System projection using the 1984 datum (WGS84). Information on Chiricahua leopard frog localities was derived from survey forms, reports, publications, field notes, and other sources, all of which reside in our files at the Arizona Ecological Services Field Office, 2321 West Royal Palm Road, Suite 103, Phoenix, AZ 85021. Coordinates given for tanks are the approximate center points of those tanks.

(5) NOTE: Index map of critical habitat units for the Chiricahua leopard frog follows:

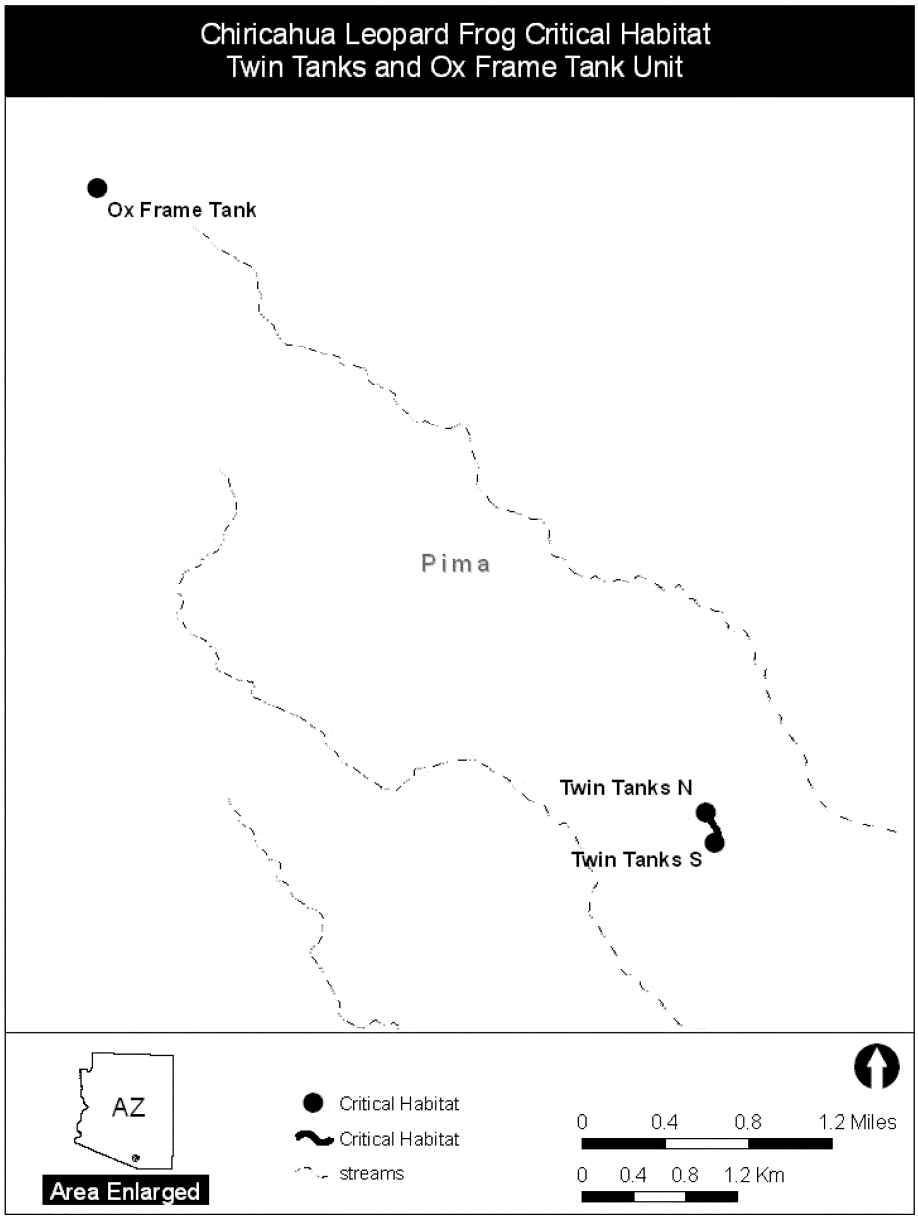


(6) Twin Tanks and Ox Frame Tank Unit, Pima County, Arizona.

(i) Twin Tanks, including the north tank (31.838230 N, 111.149875 W) and south tank (31.836031 N 111.149102 W), and the drainage running between them, a drainage distance of 979 feet (299 meters).

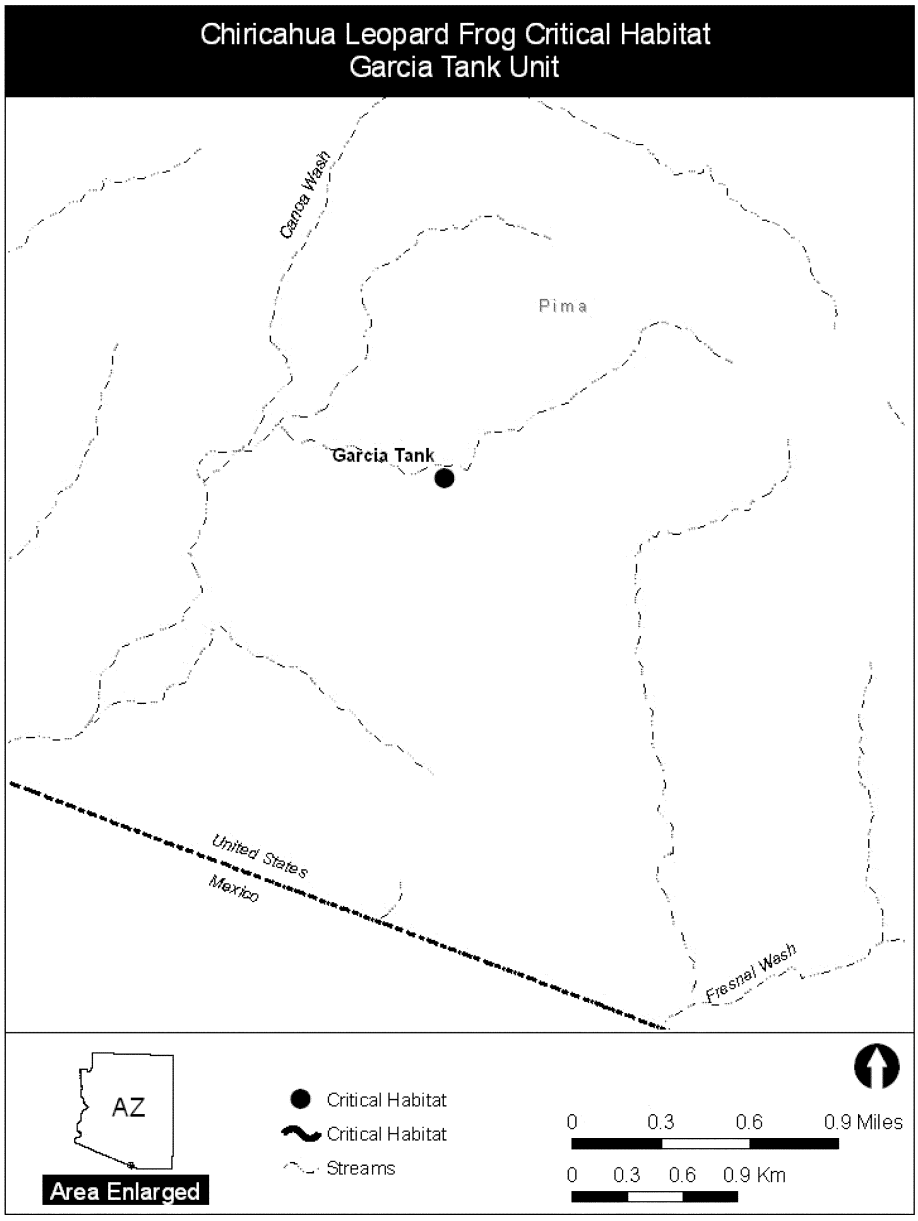
(ii) Ox Frame Tank (31.881882 N, 111.200318 W).

(iii) Map of Twin Tanks and Ox Frame Tank Unit follows:



(7) Garcia Tank Unit, Pima County, Arizona.

(i) Garcia Tank (31.477060 N, 111.454114 W).
(ii) Map of Garcia Tank Unit follows:



(8) Buenos Aires National Wildlife Refuge Central Tanks Unit, Pima County, Arizona.

(i) Carpenter Tank (31.528748 N, 111.454642 W).

(ii) Rock Tank (31.583905 N, 111.462366 W).

(iii) State Tank (31.569254 N, 111.477114 W).

(iv) Triangle Tank (31.576105 N, 111.510909 W).

(v) New Round Hill Tank (31.613784 N, 111.489390 W).

(vi) Banado Tank (31.532759 N, 111.474729 W).

(vii) Choffo Tank (31.544627 N, 111.463126 W).

(viii) Barrel Cactus Tank (31.545284 N, 111.490310 W).

(ix) Sufrido Tank (31.566364 N, 111.445892 W).

(x) Hito Tank (31.579462 N, 111.446984 W).

(xi) Morley Tank (31.599057 N, 111.489088 W).

(xii) McKay Tank (31.605788 N, 111.474188 W).

(xiii) Chongo Tank (31.64002 N, 111.50435 W).

(xiv) Arroyo del Compartidero from Triangle Tank (31.576105 N, 111.510909 W) downstream through and including Aguire Lake to an unnamed drainage (31.594035 N, 111.504265 W); then downstream in that unnamed drainage to its confluence with Bailey Wash (31.596674 N, 111.501912 W); then downstream in Bailey Wash to its confluence with Puertocito Wash (31.604618 N, 111.494127 W); then downstream in Puertocito Wash to its confluence with Las Moras Wash (31.636031 N, 111.471749 W), including New Round Hill Tank (31.613784 N, 111.489390 W); and upstream in Las Moras Wash to Chongo Tank (31.64002 N, 111.50435 W), a distance of approximately 8.52 drainage miles (13.70 kilometers).

(xv) An unnamed drainage from its confluence with Puertocito Wash (31.619650 N, 111.483551 W) upstream to McKay Tank (31.605788 N, 111.474188 W, which is a cluster of three tanks), a distance of approximately 1.55 drainage miles (2.50 kilometers).

(xvi) Puertocito Wash from its confluence with Bailey Wash (31.604618 N, 111.494127 W) upstream to Sufrido Tank (31.566364 N, 111.445892 W), including Morley Tank (31.599057 N, 111.489088 W), a distance of approximately 4.60 drainage miles (7.40 kilometers).

(xvii) An innamed drainage from its confluence with Puertocito Wash upstream to Rock Tank (31.583905 N, 111.462366 W), then upstream in an unnamed drainage to the top of that drainage (31.582637 N, 111.456882 W) and directly overland to an unnamed drainage (31.583818 N, 111.455223 W), and then upstream to Hito Tank (31.579462 N, 111.446984 W) and downstream to McKay Tank (31.605788 N, 111.474188 W), a distance of approximately 3.80 drainage miles (6.11 kilometers) and 580 feet (177 meters) overland.

(xviii) Lopez Wash from Carpenter Tank (31.528748 N, 111.454642 W) downstream to its confluence with Aguire Lake (31.590582 N, 111.499589 W), a distance of approximately 6.75 drainage miles (10.87 kilometers).

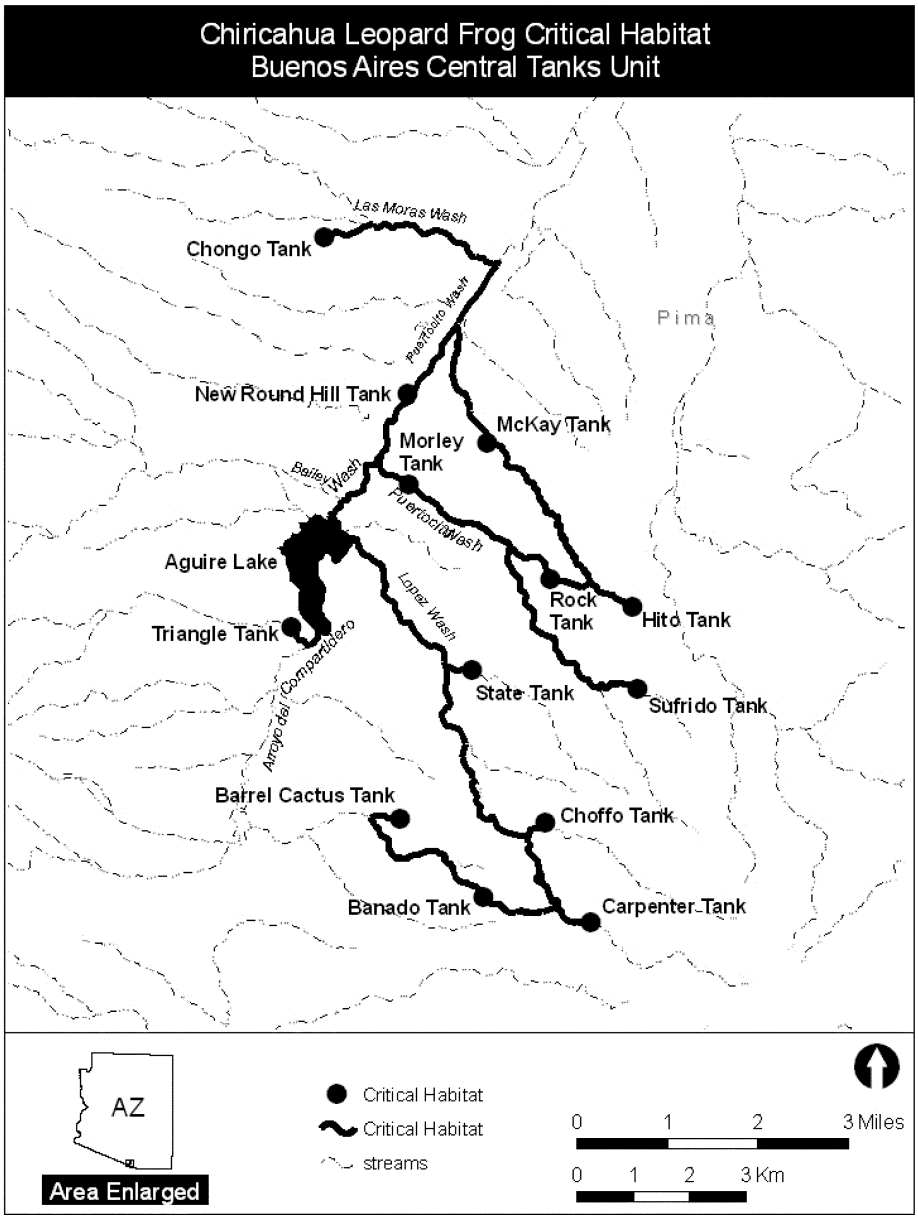
(xix) An unnamed drainage from its confluence with Lopez Wash (31.542605 N, 111.466699 W) upstream to Choffo Tank (31.544627 N, 111.463126 W), a distance of approximately 1,549 drainage feet (472 meters).

(xx) An unnamed drainage from its confluence with Lopez Wash (31.569735 N, 111.482058 W) upstream to State Tank (31.569254 N, 111.477114 W), a distance of approximately 1,613 drainage feet (492 meters).

(xxi) An unnamed drainage from Banado Tank (31.532759 N, 111.474729 W) downstream to the confluence with an unnamed drainage (31.545399 N, 111.496152 W), and then upstream in that drainage to Barrel Cactus Tank (31.545284 N, 111.490310 W), a distance of approximately 2.21 drainage miles (3.56 kilometers).

(xxii) An unnamed drainage from Banado Tank (31.532759 N, 111.474729 W) upstream to a saddle (31.530907 N, 111.463162 W), then directly downslope to Lopez Wash (31.532093 N, 111.462159 W), a distance of approximately 3,831 drainage feet (1,168 meters) and 808 feet (246 meters) overland.

(xxiii) Map of Buenos Aires NWR Central Tanks Unit follows:



(9) Bonita, Upper Turner, and Mojonera Tanks Unit, Santa Cruz County, Arizona.

(i) Bonita Tank (31.43525 N, 111.305505 W).

(ii) Upper Turner Tank (31.429690 N, 111.318332 W).

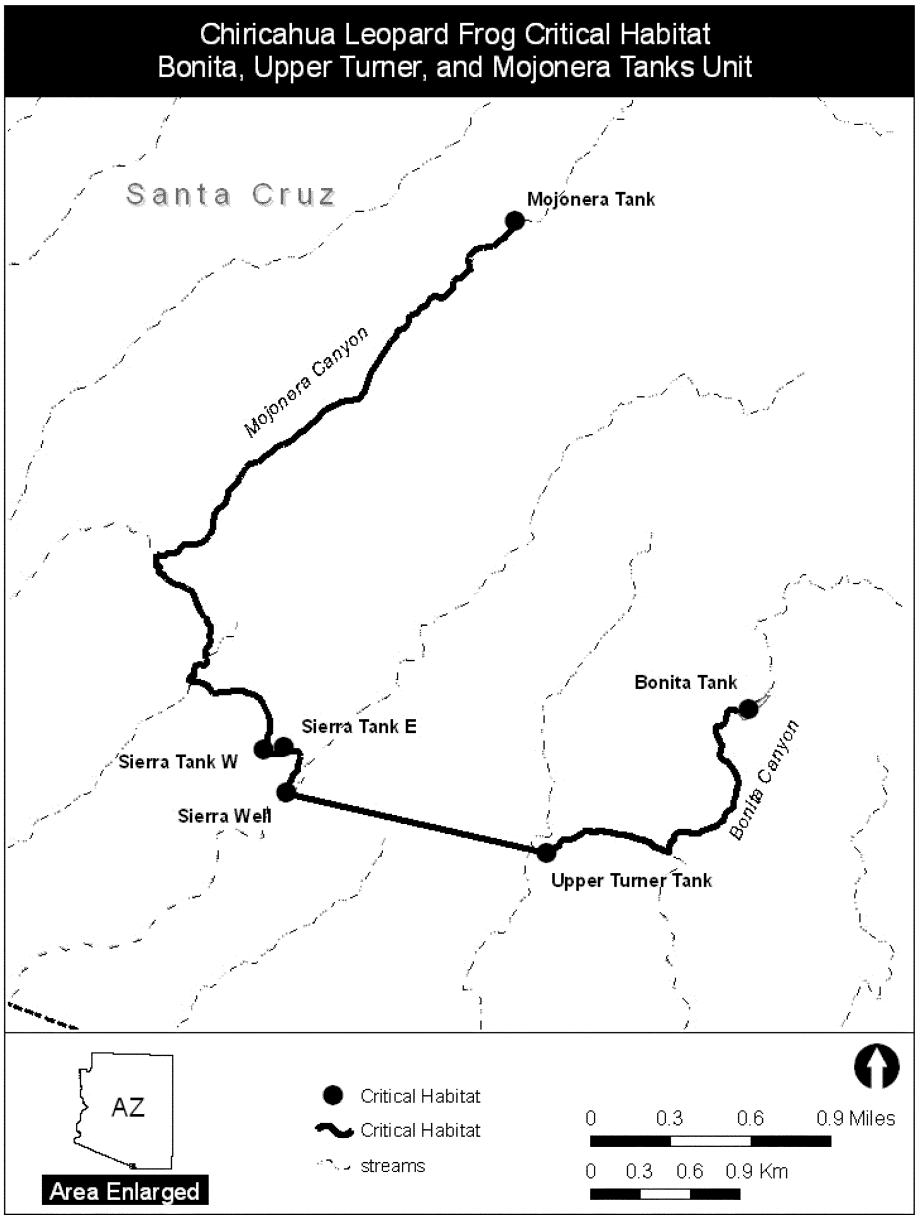
(iii) Mojonera Tank (31.464250 N, 111.320203 W).

(iv) From Upper Turner Tank (31.429690 N, 111.318332 W) upstream in an unnamed drainage to its confluence with a minor drainage coming in from the east (31.431029 N,

111.315846 W), then directly upslope in that drainage and east to a saddle (31.431015 N, 111.314770), and directly downslope through an unnamed drainage to Bonita Canyon (31.429806 N, 111.310325 W), and upstream in Bonita Canyon to Bonita Tank, a distance of approximately 1.29 drainage miles (2.08 kilometers) and 150 feet (46 meters) overland.

(v) From Mojonera Tank (31.464250 N, 111.320203 W) downstream in Mojonera Canyon to a sharp bend where the drainage turns west-northwest (31.445989 N, 111.343181 W); then southeast and upstream in an unnamed drainage to a saddle (31.443358 N, 111.340675 W) and downslope through an unnamed drainage to its confluence with another unnamed drainage (31.438637 N, 111.341044 W); then upstream in that unnamed drainage to a saddle (31.438497 N, 111.337639 W); then downstream in an unnamed drainage to Sierra Well (31.433012 N, 111.334709 W), to include Sierra Tank East (31.435488 N, 111.334736 W) and Sierra Tank West (31.435361 N, 111.336103 W); then directly overland to Upper Turner Tank (31.429690 N, 111.318332 W), a distance of approximately 3.45 drainage miles (5.56 kilometers) and 5,270 feet (1,606 meters) overland.

(vi) Map of Bonita, Upper Turner, and Mojonera Tanks Unit follows:



(10) Sycamore Canyon Unit, Santa Cruz County, Arizona.

(i) Sycamore Canyon from the Ruby Road bridge (31.434030 N, 111.186537 W) south to the International Boundary (31.379952 N, 111.222937 W), a distance of 6.35 stream miles (10.23 kilometers).

(ii) Yank Tank (31.425426 N, 111.183289 W).

(iii) North Mesa Tank (31.415697 N, 111.167584 W).

(iv) Horse Pasture Spring (31.406812 N, 111.184717 W).

(v) Bear Valley Ranch Tank (31.413617 N, 111.176818 W).

(vi) South Mesa Tank (31.406832 N, 111.164505 W).

(vii) Rattlesnake Tank (31.400654 N, 111.163470 W).

(viii) Yanks Canyon from Yank Tank (31.425426N, 111.183289W) downstream to its confluence with Sycamore Canyon (31.428987 N, 111.190679 W), a distance of approximately 2,822 drainage feet (860 meters).

(ix) From North Mesa Tank (31.415697 N, 111.167584 W) downstream in Atascosa Canyon to its confluence with Peñasco Canyon (31.402594 N, 111.186647 W), then from that confluence downstream in Peñasco Canyon to its confluence with Sycamore Canyon (31.407395 N, 111.195820 W), a distance of approximately 2.91 drainage miles (4.69 kilometers).

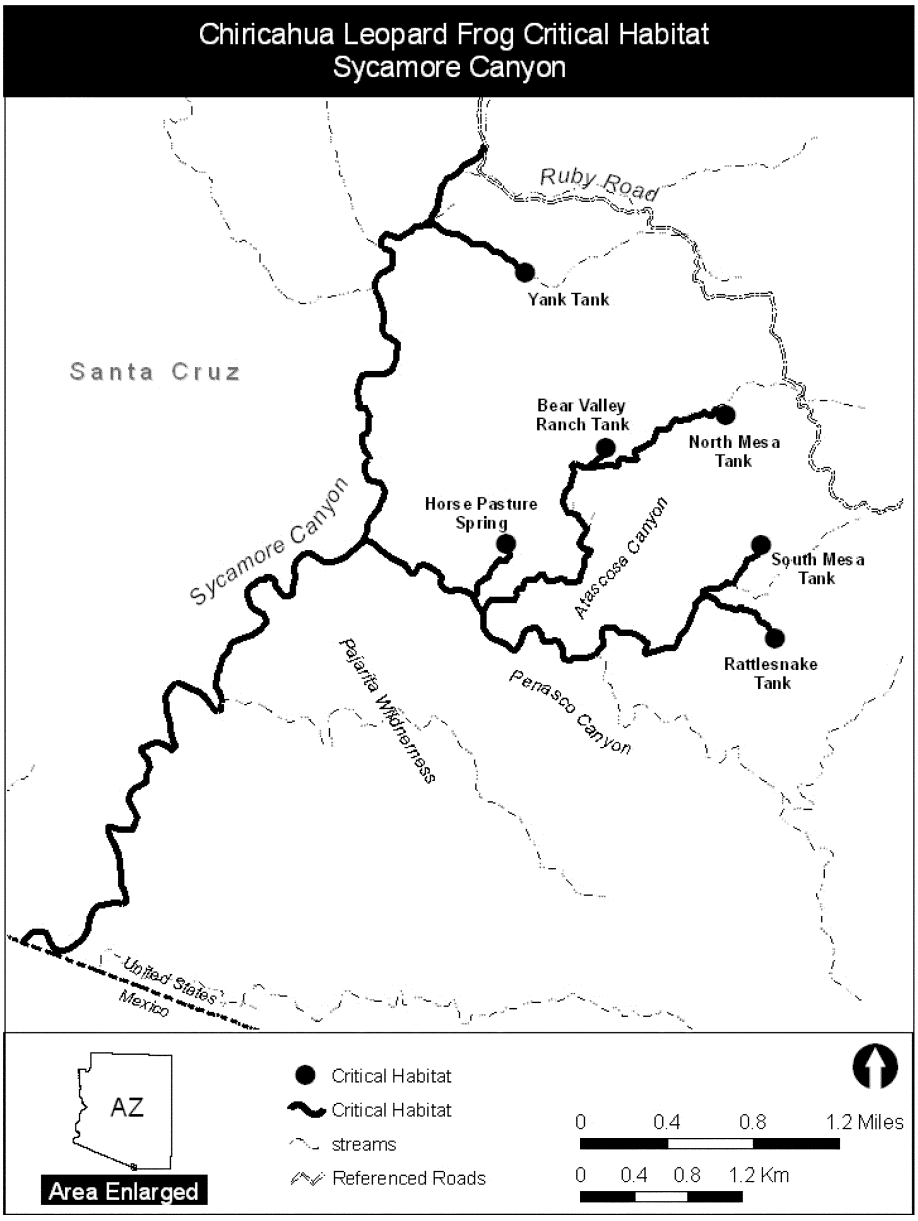
(x) From Horse Pasture Spring (31.406812 N, 111.184717 W) downstream to Peñasco Canyon, a drainage distance of approximately 1,759 feet (536 meters).

(xi) From Bear Valley Ranch Tank (31.413617 N, 111.176818 W) downstream in an unnamed drainage to its confluence with Atascosa Canyon (31.402583 N, 111.186593 W), a drainage distance of approximately 611 stream feet (186 meters).

(xii) From South Mesa Tank (31.406832 N, 111.164505 W) downstream in unnamed drainage to its confluence with another unnamed drainage (31.403615 N, 111.169213 W), then downstream in that unnamed drainage to its confluence with Peñasco Canyon (31.399519 N, 111.177701 W), then downstream in Peñasco Canyon to its confluence with Atascosa Canyon (31.402594 N, 111.186647 W), a drainage distance of approximately 2.05 miles (3.30 kilometers).

(xiii) From Rattlesnake Tank (31.400654 N, 111.163470 W) downstream in an unnamed drainage to its confluence with another unnamed drainage (31.403615 N, 111.169213 W), a drainage distance of approximately 2,274 feet (693 meters).

(xiv) Map of Sycamore Canyon Unit follows:



(11) Peña Blanca Lake and Spring and Associated Tanks Unit, Santa Cruz County, Arizona.

(i) Peña Blanca Lake (31.409091 N, 111.084971 W at the dam).

(ii) Peña Blanca Spring (31.388895 N, 111.092297 W).

(iii) Summit Reservoir (31.396565 N, 111.141347 W).

(iv) Tinker Tank (31.380107 N, 111.136359 W).

(v) Coyote Tank (31.369894 N, 111.150751 W).

(vi) Thumb Butte Tank (31.388426 N, 111.118105 W).

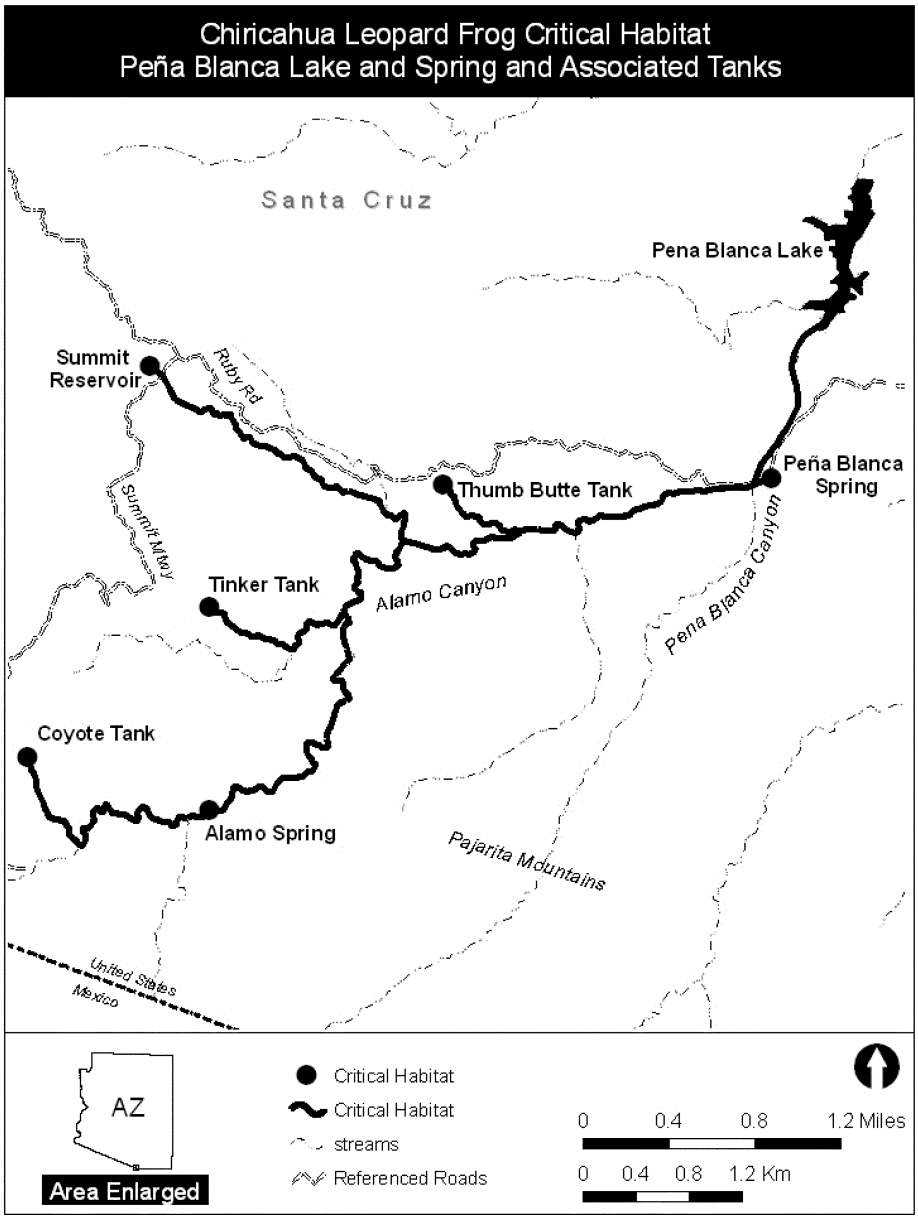
(vii) From Summit Reservoir directly southeast to a saddle on Summit Motorway (31.395580 N, 111.140552 W), then directly downslope to an unnamed drainage at (31.394133 N, 111.139450 W) and downstream in that drainage to its confluence with Alamo Canyon (31.384521 N, 111.121496 W), then downstream in Alamo Canyon to its confluence with Peña Blanca Canyon (31.388301 N, 111.093728 W), then downstream in Peña Blanca Canyon to Peña Blanca Lake (31.409091 N, 111.084971 W at the dam) to include Peña Blanca Spring (31.388895 N, 111.092297 W), a distance of approximately 4.44 drainage miles (7.10 kilometers) and 1,040 feet (317 meters) overland.

(viii) From Thumb Butte Tank (31.388426 N, 111.118105 W) downstream in an unnamed drainage to its confluence with Alamo Canyon (31.385228 N, 111.112132 W), a distance of approximately 2,494 drainage feet (760 meters).

(ix) From Tinker Tank (31.380107 N, 111.136359 W) downstream in an unnamed drainage to its confluence with Alamo Canyon (31.379693 N, 111.126053 W), then downstream in Alamo Canyon to the confluence with the drainage from Summit Reservoir (31.384521 N, 111.121496 W), a distance of approximately 1.55 drainage miles (2.50 kilometers).

(x) From Coyote Tank (31.369894 N, 111.150751 W) downstream in an unnamed drainage to its confluence with Alamo Canyon (31.365839 N, 111.138388 W); then downstream in Alamo Canyon to the confluence with the drainage from Tinker Tank (31.379693 N, 111.126053 W), to include Alamo Spring (31.365993 N, 111.137171 W), a distance of approximately 3.09 drainage miles (4.97 kilometers).

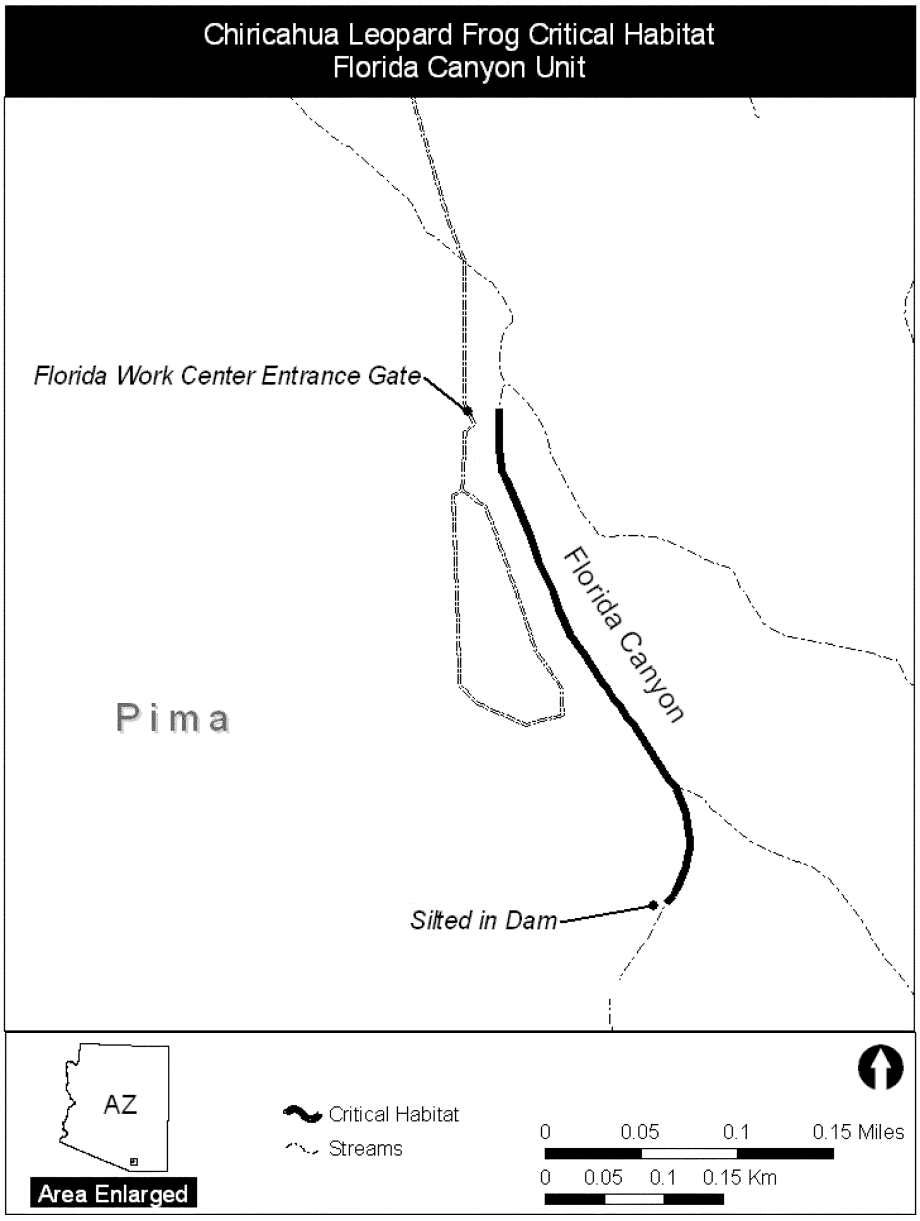
(xi) Map of Peña Blanca Lake and Spring and Associated Tanks Unit follows:



(12) Florida Canyon Unit, Pima County, Arizona.

(i) Florida Canyon from a silted-in dam (31.759444 N, 110.844095 W) downstream to just east of the Florida Workstation entrance gate (31.763186 N, 110.845511 W), a distance of approximately 1,521 stream feet (463 meters).

(ii) Map of Florida Canyon Unit follows:



(13) Eastern Slope of the Santa Rita Mountains Unit, Pima County, Arizona.

(i) Two galvanized metal tanks in Louisiana Gulch (31.74865 N, 110.72839 W).

(ii) Greaterville Tank (31.767186 N, 110.759818 W).

(iii) Los Posos Gulch Tank (31.768587 N, 110.731583 W).

(iv) Upper Granite Mountain Tank (31.760914 N, 110.760186 W).

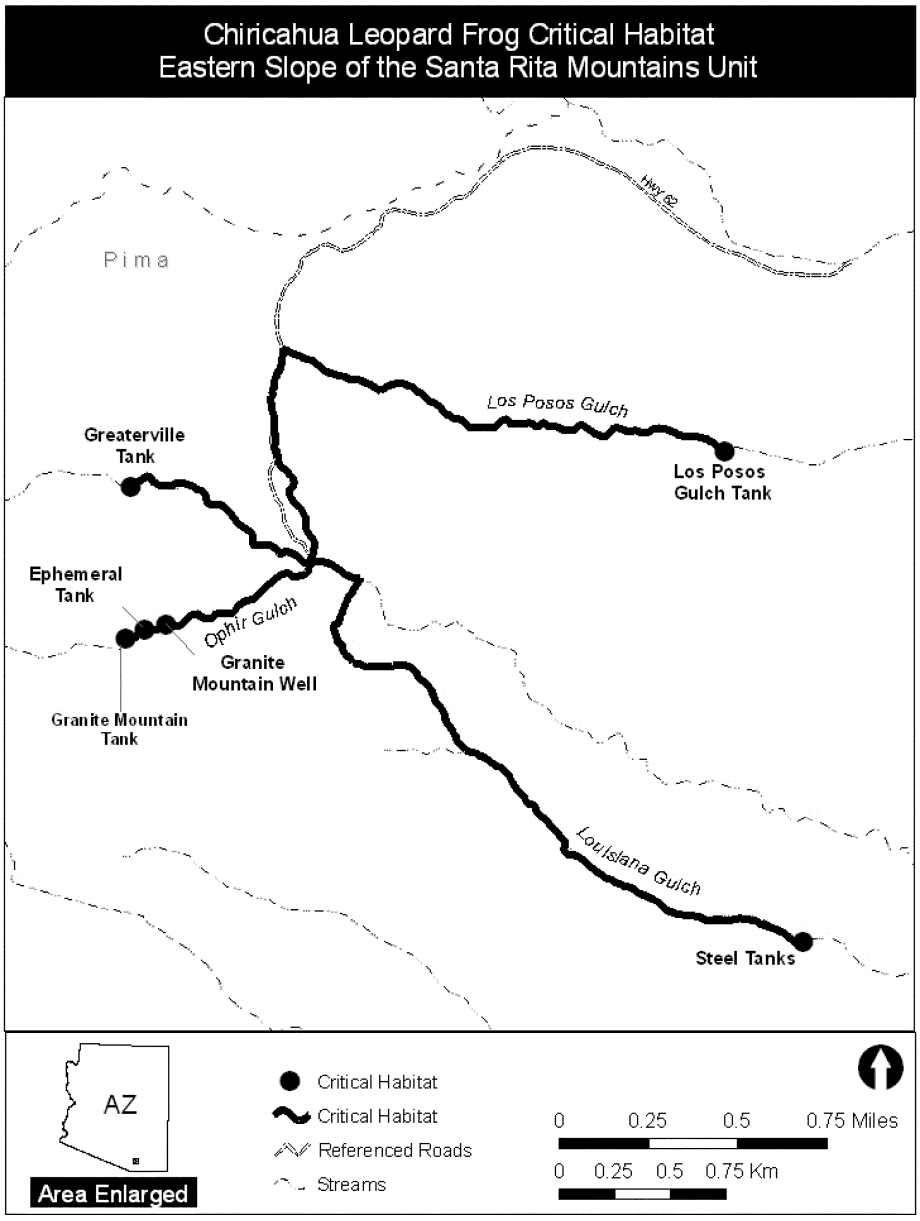
(v) From Los Posos Gulch Tank (31.768587 N, 110.731583 W) upstream to a saddle

(31.771463 N, 110.748676 W); then downslope in an unnamed drainage to the confluence with another unnamed drainage (31.772830 N, 110.752727 W); then upstream and south in that drainage to a saddle (31.768245 N, 110.752891 W); then downslope in an unnamed drainage to its confluence with Ophir Gulch (31.763978 N, 110.751312 W); then upstream in Ophir Gulch to Upper Granite Mountain Tank (31.760914 N, 110.760186 W), to include an ephemeral tank (31.761388 N, 110.759184 W) and a well (31.761584 N, 110.758169 W), a distance of approximately 2.59 drainage miles (4.17 kilometers) and 984 feet (300 meters) overland.

(vi) From Greaterville Tank (31.767186 N, 110.759818 W) downstream in an unnamed drainage to its confluence with Ophir Gulch (31.763978 N, 110.751312 W), a distance of approximately 3,446 drainage feet (1,050 meters).

(vii) Louisiana Gulch from the metal tanks (31.74865 N, 110.72839 W) upstream to the confluence with an unnamed drainage (31.756493 N, 110.744175 W), then upstream in that drainage to its headwaters and across a saddle (31.759879 N, 110.748733 W) and downslope through an unnamed drainage to its confluence with Ophir Gulch (31.762953 N, 110.749329 W), then upstream in Ophir Gulch to the confluence with an unnamed drainage (31.763978 N, 110.751312 W), a distance of approximately 1.98 drainage miles (3.19 kilometers) and 327 feet (100 meters) overland.

(viii) Map of Eastern Slope of the Santa Rita Mountains Unit follows:



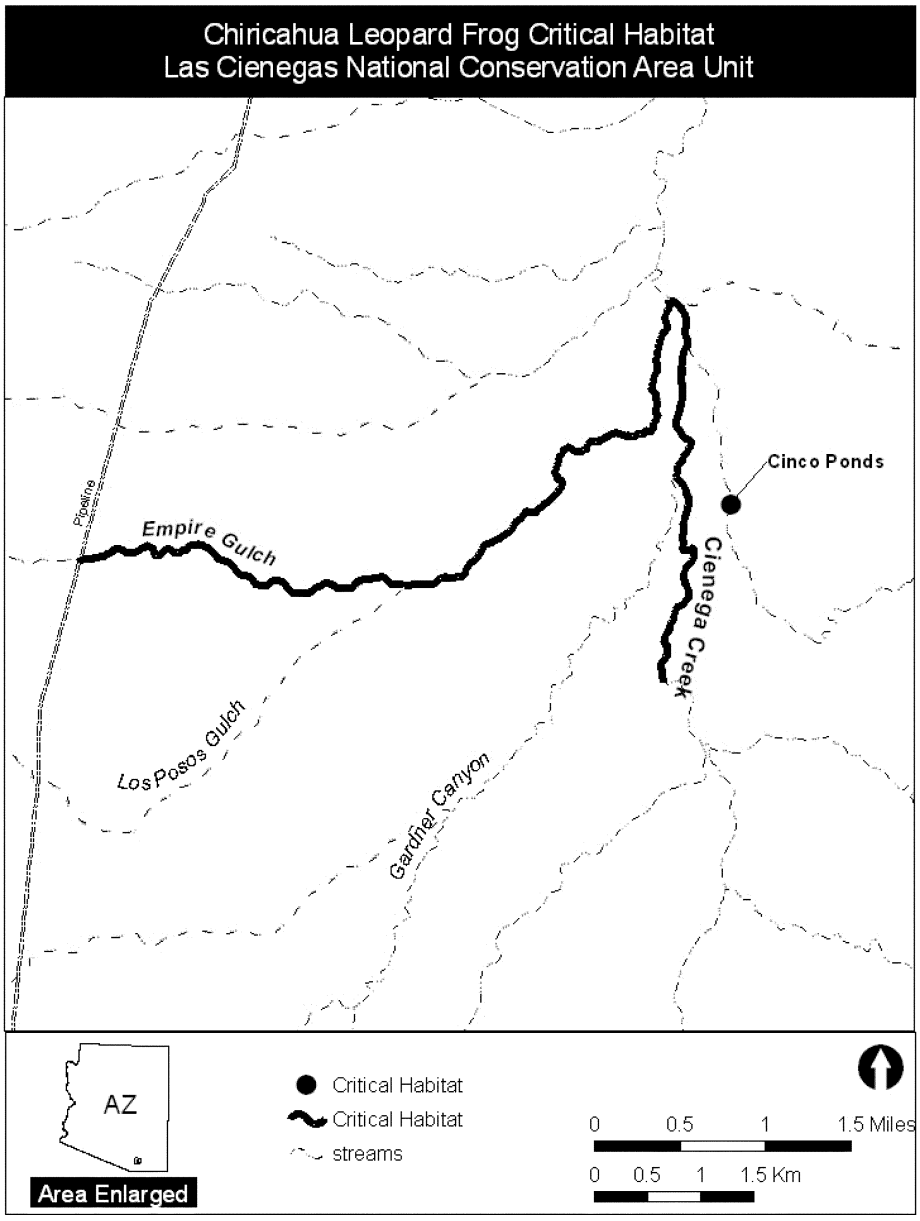
(14) Las Cienegas National Conservation Area Unit, Pima County, Arizona.

(i) Empire Gulch near Empire Ranch, beginning at a pipeline access road crossing (31.787054 N, 110.648665 W) and continuing downstream to its confluence with Cienega Creek (31.808988 N, 110.589795 W), a distance of approximately 5.08 stream miles (8.18 kilometers).

(ii) Cienega Creek from the Empire Gulch confluence (31.808988 N, 110.589795 W) upstream to the approximate end of the wetted

reach and where the creek bends hard to the east (31.776478 N, 110.590382 W), to include Cinco Ponds (31.793066 N, 110.584422 W upstream to 31.788559 N, 110.584114 W), a distance of approximately 1.91 stream miles (3.08 kilometers).

(iii) Map of Las Cienegas National Conservation Area Unit follows:



(15) Scotia Canyon Unit, Cochise County, Arizona.

(i) Peterson Ranch Pond (31.457016 N, 110.397724 W).

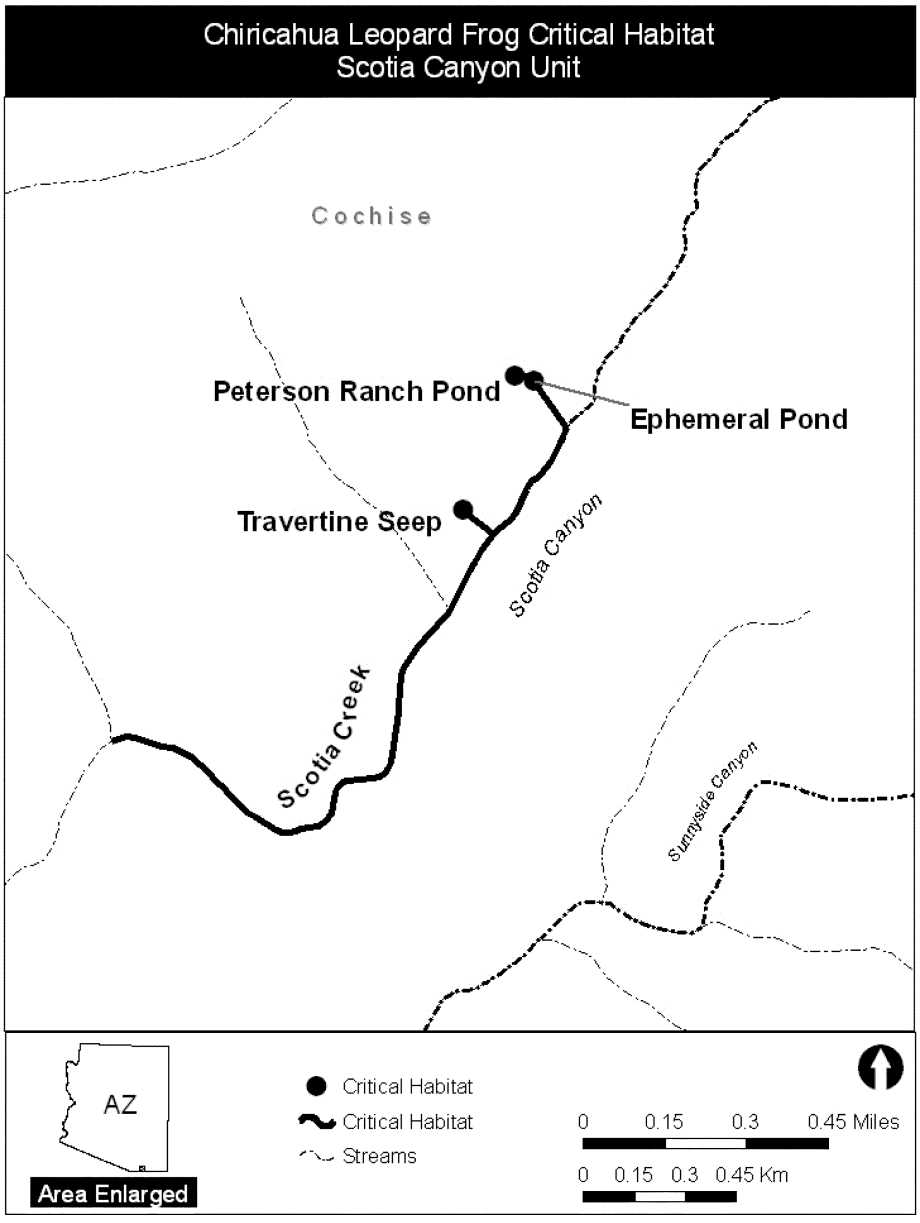
(ii) Travertine Seep (31.453466 N, 110.399386 W).

(iii) Creek in Scotia Canyon from just east of Peterson Ranch Pond (31.455723 N, 110.396124 W) downstream to the confluence of an unnamed drainage and a sharp bend in the canyon to the south (31.447598 N, 110.409884 W), a distance of approximately 1.36 stream miles (2.19 kilometers).

(iv) Overland from Peterson Ranch Pond (31.457016 N, 110.397724 W) to the upper end of the Scotia Creek segment (31.455723 N, 110.396124 W), to include an ephemeral pond (31.456929 N, 110.397120 W), an overland distance of approximately 671 feet (205 meters).

(v) Overland from the Travertine Seep (31.453466 N, 110.399386 W) directly southeast to Scotia Creek (31.452720 N, 110.398117 W), an overland distance of approximately 348 feet (106 meters).

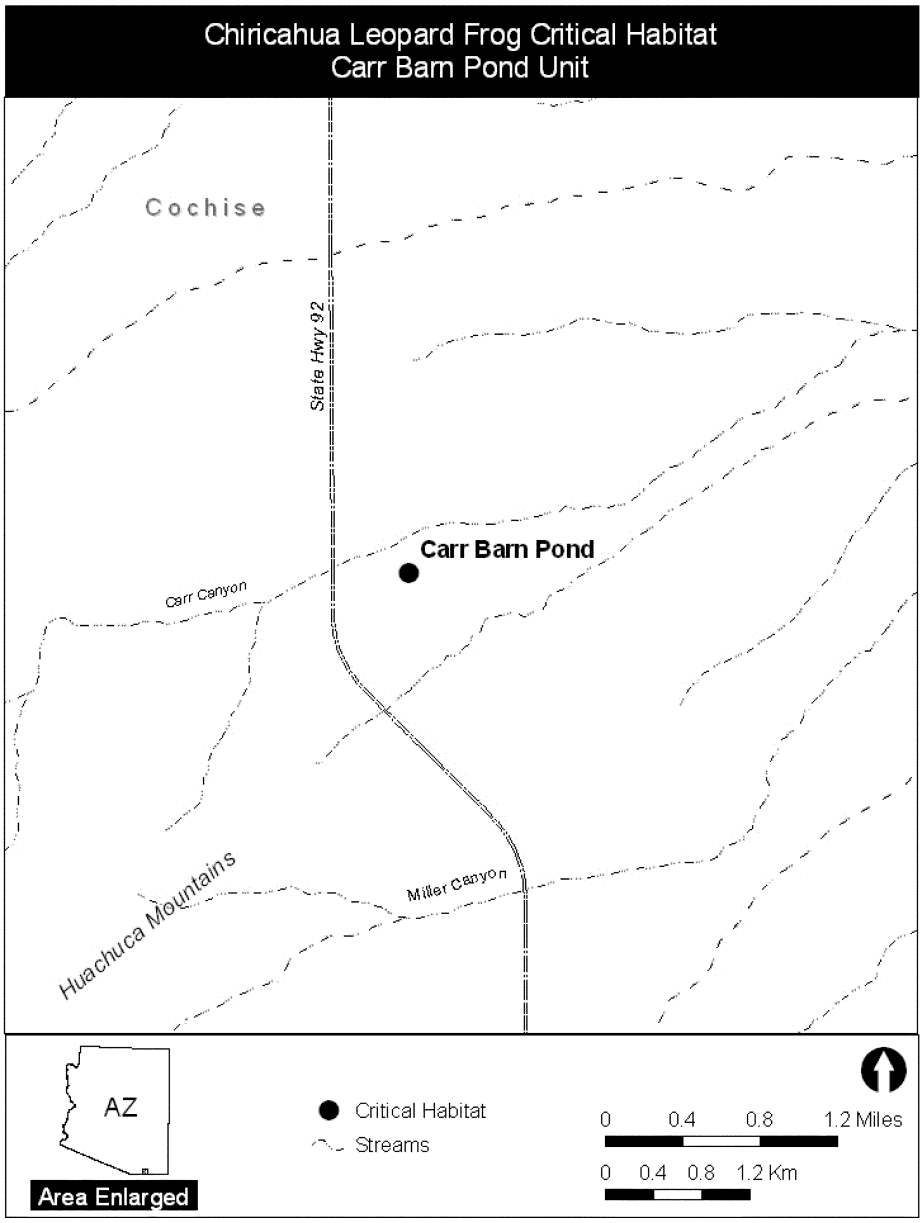
(vi) Map of Scotia Canyon Unit follows:



(16) Carr Barn Pond Unit, Cochise County, Arizona.

(i) Carr Barn Pond (31.452461 N, 110.250355 W).

(ii) Map of Carr Barn Pond Unit follows:



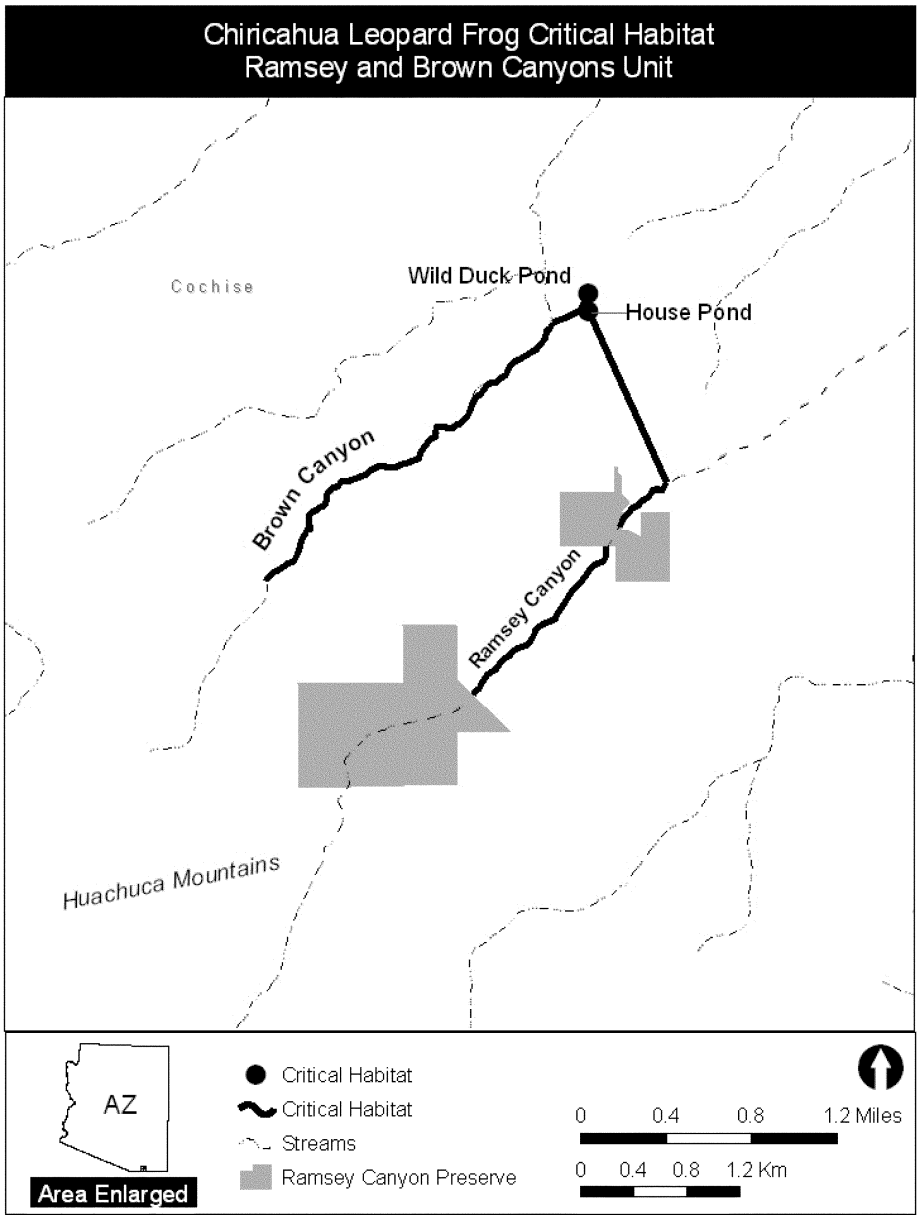
(17) Ramsey and Brown Canyons Unit, Cochise County, Arizona.

(i) Ramsey Canyon from the eastern boundary of The Nature Conservancy's Bledsoe Parcel in the Ramsey Canyon Preserve (31.448160 N, 110.306993 W) downstream to a dirt road crossing at the mouth of Ramsey Canyon (31.462315 N, 110.291248 W), excluding The Nature Conservancy's University of Toronto Parcel in the Ramsey Canyon Preserve, an approximate stream distance of 1.29 miles (2.08 kilometers).

(ii) Brown Canyon from The Box (31.456016 N, 110.323853 W) downstream to the Wild Duck Pond (31.475355 N, 110.297592 W) and House Pond (31.474068 N, 110.297565 W) on the former Barchas Ranch, an approximate drainage distance of 2.26 miles (3.64 kilometers).

(iii) From the dirt road crossing at the mouth of Ramsey Canyon (31.462315 N, 110.291248 W) directly overland to House Pond (31.474068 N, 110.297565 W) on the former Barchas Ranch, a distance of approximately 4,594 feet (1,400 meters).

(iv) Map of Ramsey and Brown Canyons Unit follows:



(18) Peloncillo Mountains Tanks Unit, Hidalgo County, New Mexico.

(i) Geronimo Tank (31.520685 N, 109.016775 W).

(ii) State Line Tank (31.498451 N, 109.044940 W).

(iii) Javelina Tank (31.484995 N, 109.024970 W).

(iv) Canoncito Ranch Tank (31.449553 N, 109.986836 W).

(v) Maverick Spring (31.469376 N, 109.011142 W).

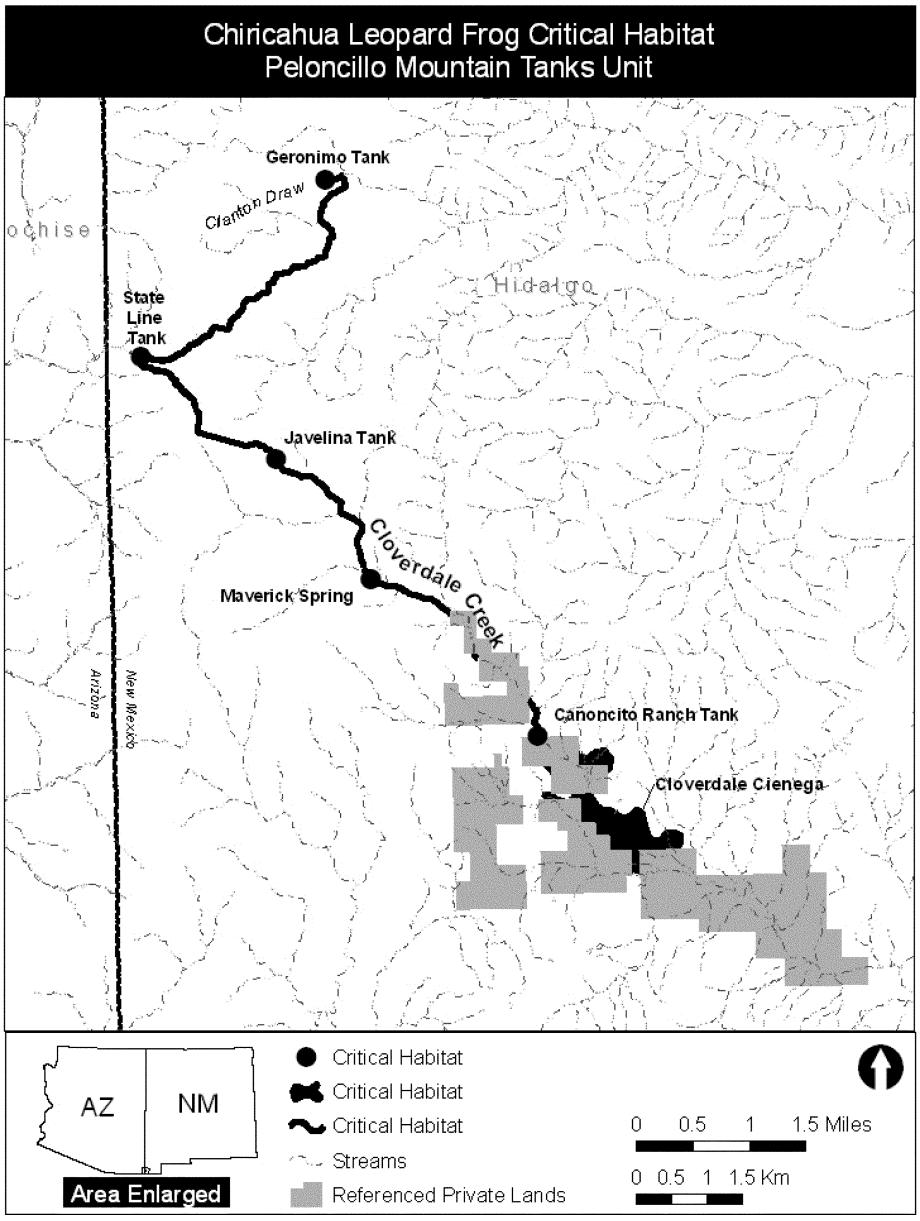
(vi) Cloverdale Creek from the Canoncito Ranch Tank (31.449553 N, 109.986836 W) downstream, including the cienega, to rock pools (31.432972 N, 108.966535 W) about 630 feet downstream of the Cloverdale road crossing of Cloverdale Creek, excluding portions of Cloverdale Creek and the cienega within private lands of Canoncito Ranch, an approximate stream distance of 3,711 feet (1,131 meters).

(vii) From Geronimo Tank (31.520685 N, 109.016775 W) downstream in an unnamed drainage to its confluence with Clanton Draw (31.520590 N, 109.012263 W), then upstream to the confluence with an unnamed drainage (31.515818 N, 109.018117 W), and upstream in that drainage to its headwaters (31.501854 N, 109.031898 W), across a mesa to the headwaters of an unnamed drainage (31.502220 N, 109.033839 W), then downslope through that drainage to State Line Tank (31.498451 N, 109.044940 W), an approximate drainage distance of 3.07 miles (4.94 kilometers) and 775 feet (236 meters) overland.

(viii) From State Line Tank upstream in an unnamed drainage to a mesa (31.488563 N, 109.036527 W), then directly overland to the headwaters of Cloverdale Creek (31.487477 N, 109.028002 W), and then downstream in Cloverdale Creek to Javelina Tank (31.484995 N, 109.024970 W), an approximate drainage distance of 1.40 miles (2.26 kilometers) and 2,245 feet (684 meters) overland.

(ix) From Javelina Tank (31.484995 N, 109.024970 W) downstream in Cloverdale Creek to the Canoncito Ranch Tank (31.449553 N, 109.986836 W), to include Maverick Spring (31.469376 N, 109.011142 W), and excluding portions of Cloverdale Creek within private lands of Canoncito Ranch, an approximate stream distance of 3.12 miles (5.02 kilometers).

(x) Map of Peloncillo Mountains Unit follows:



(19) Cave Creek Unit, Cochise County, Arizona.

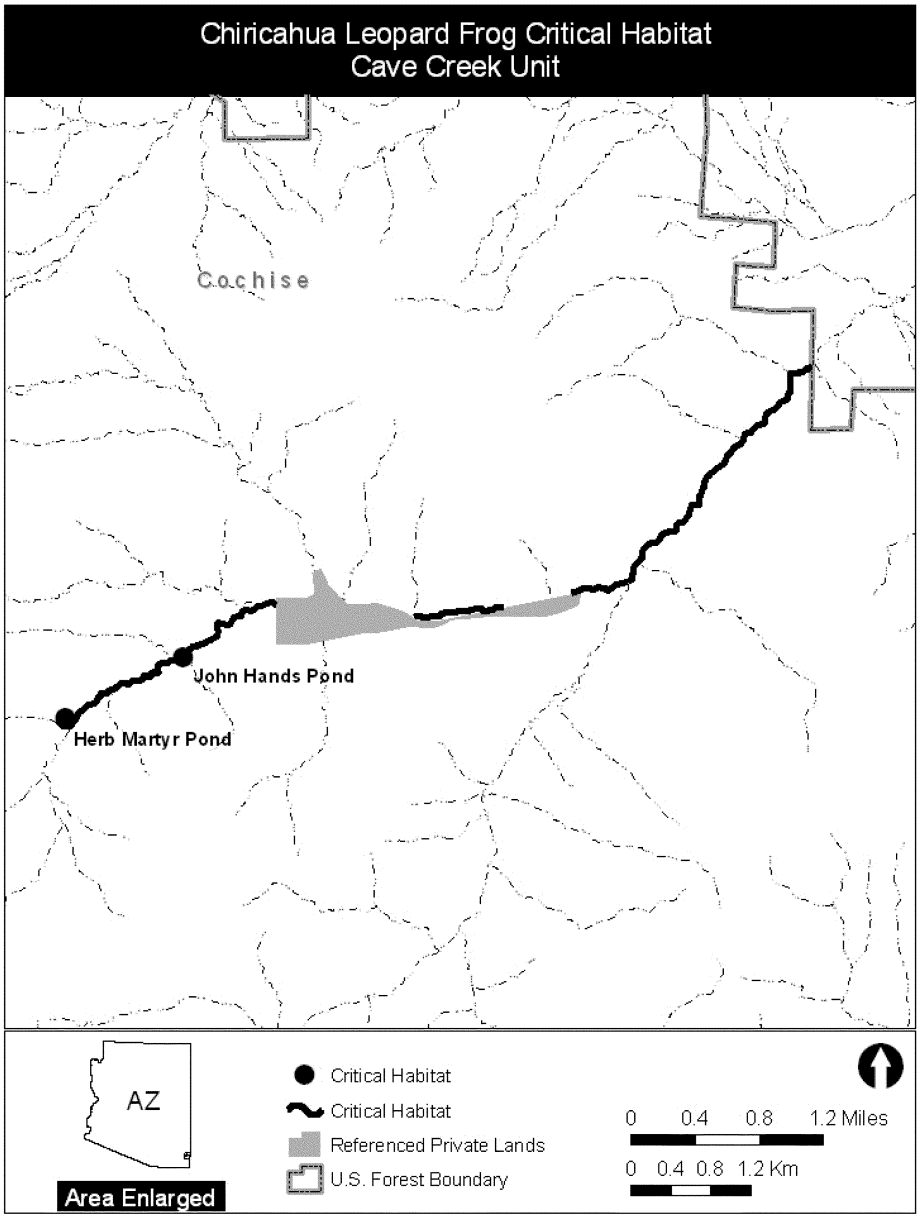
(i) Herb Martyr Pond (31.87243 N, 109.23418 W).

(ii) John Hands Pond below the dam (31.87868 N, 109.20470 W).

(iii) Cave Creek from Herb Martyr Pond (31.87243 N, 109.23418 W) downstream to the U.S. Forest Service boundary (31.899659 N, 109.159987 W), to include John Hands Pond (31.87868 N, 109.20470 W), an approximate

stream distance of 4.76 miles (7.67 kilometers).

(iv) Map of Cave Creek Unit follows:

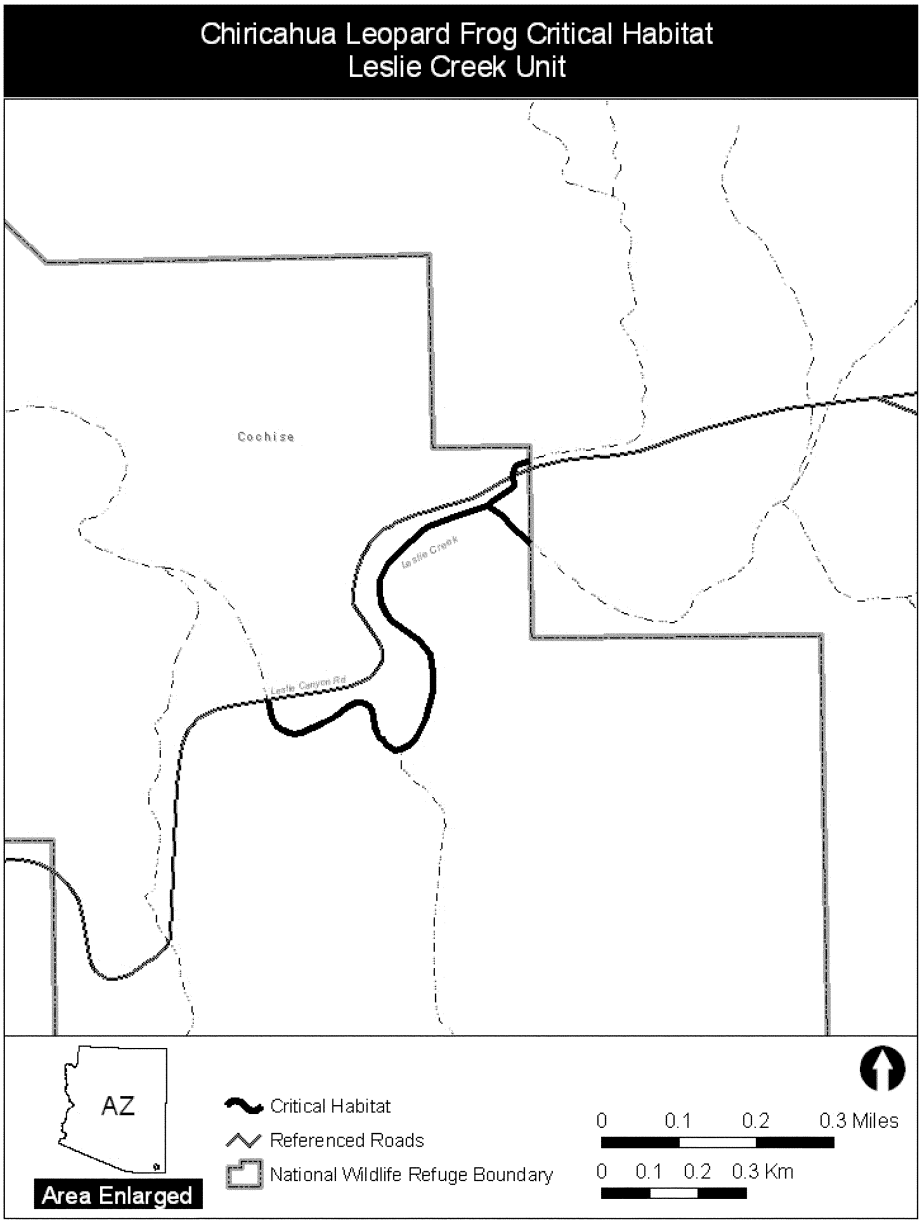


(20) Leslie Creek Unit, Cochise County, Arizona.

(i) Leslie Creek from the upstream National Wildlife Refuge boundary (31.591072 N,

109.505311 W) downstream to the Leslie Canyon Road crossing (31.588510 N, 109.511598 W), an approximate stream distance of 4,094 feet (1,248 meters).

(ii) Map of Leslie Creek Unit follows:



(21) Deer Creek Unit, Graham County, Arizona.

(i) Home Ranch Tank (32.656879 N, 110.274556 W).

(ii) Penney Mine Tanks, which includes a series of 10 small impoundments in a drainage from approximately 32.668795 N, 110.257763 W downstream to 32.670055 N, 110.257310 W.

(iii) Clifford Tank (32.67130 N, 110.264877 W).

(iv) Vermont Tank (32.676883 N, 110.262404 W).

(v) Middle Tank (32.679691 N, 110.252180 W).

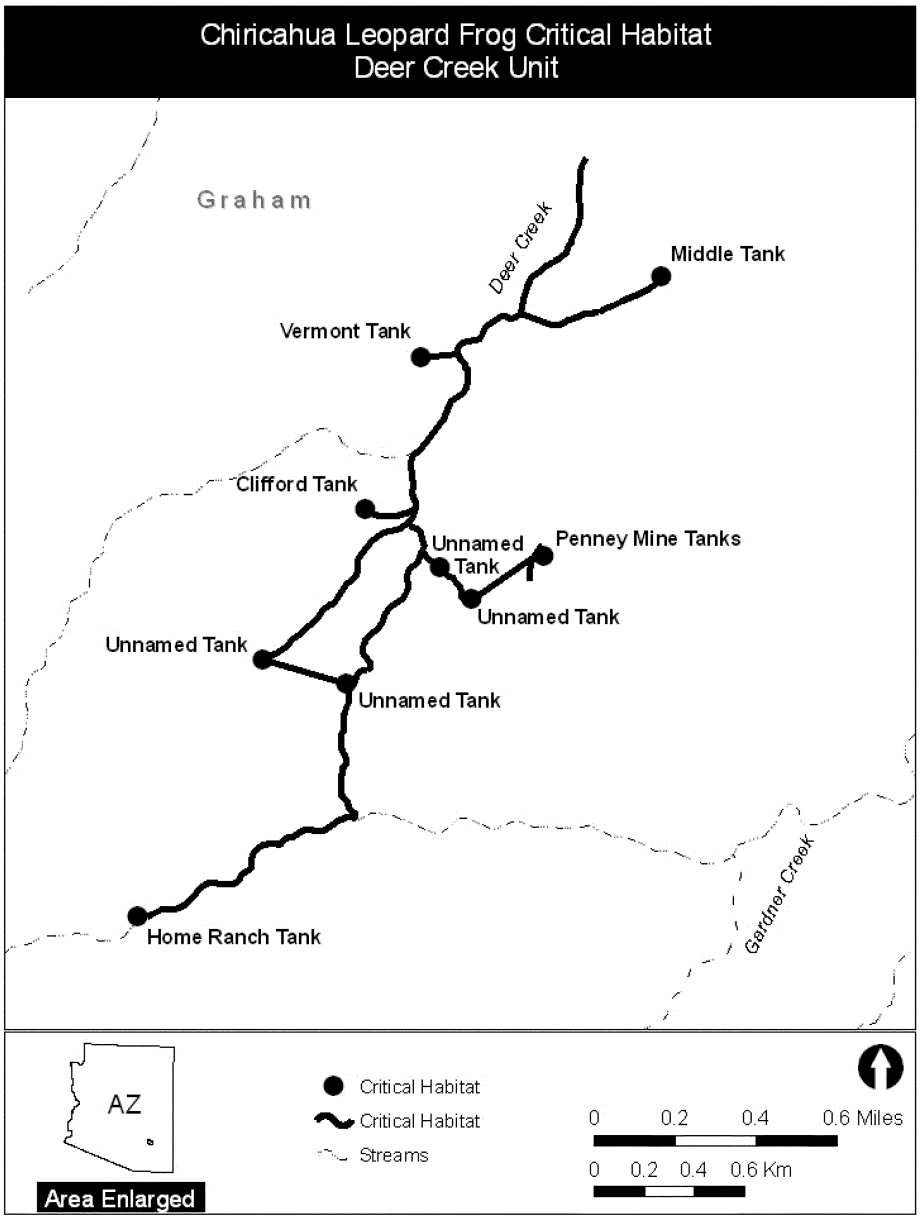
(vi) Deer Creek from a point where it exits a canyon and turns abruptly to the east (32.683937 N, 110.255290 W) upstream to its confluence with an unnamed drainage (32.673318 N, 110.262748 W); then upstream in that drainage to a confluence with four other drainages (32.671318 N, 110.262600 W); then upstream from that confluence in the western drainage to Clifford Tank (32.67130 N, 110.264877 W); then upstream from that confluence in the west-central drainage to an unnamed tank (32.666108 N, 110.269204 W); then directly overland southeast to another unnamed tank (32.665124 N, 110.265580 W); then downstream from that tank in an unnamed drainage to the aforementioned confluence (32.671318 N, 110.262600 W), and upstream in that unnamed drainage to a saddle (32.662529 N, 110.265717 W); then downstream from that saddle in an unnamed drainage to its confluence with an unnamed tributary to Gardner Creek (32.660409 N, 110.265303 W); and upstream in that unnamed tributary to Home Ranch Tank (32.656879 N, 110.274556 W), a distance of approximately 3.28 drainage miles (5.27 kilometers) and 1,216 feet (371 meters) overland.

(vii) From the largest of the Penney Mine Tanks (32.669696 N, 110.257652 W) directly overland to an unnamed tank (32.688150 N, 110.260309 W), and downstream in an unnamed drainage to the aforementioned confluence (32.671318 N, 110.262600 W), including another unnamed tank (32.669324 N, 110.261672 W) situated in that drainage, a distance of approximately 948 drainage feet (289 meters) and 1,051 feet (320 meters) overland.

(viii) From Vermont Tank (32.676883 N, 110.262404 W) directly overland for approximately 468 feet (143 meters) to Deer Creek (32.677037 N, 110.260815 W).

(ix) From Middle Tank (32.679691 N, 110.252180 W) upstream in an unnamed drainage to a saddle (32.677989 N, 110.256915 W), then directly downslope to Deer Creek (32.678307 N, 110.258257 W), an approximate drainage distance of 1,530 feet (466 meters) and 436 feet (133 meters) overland.

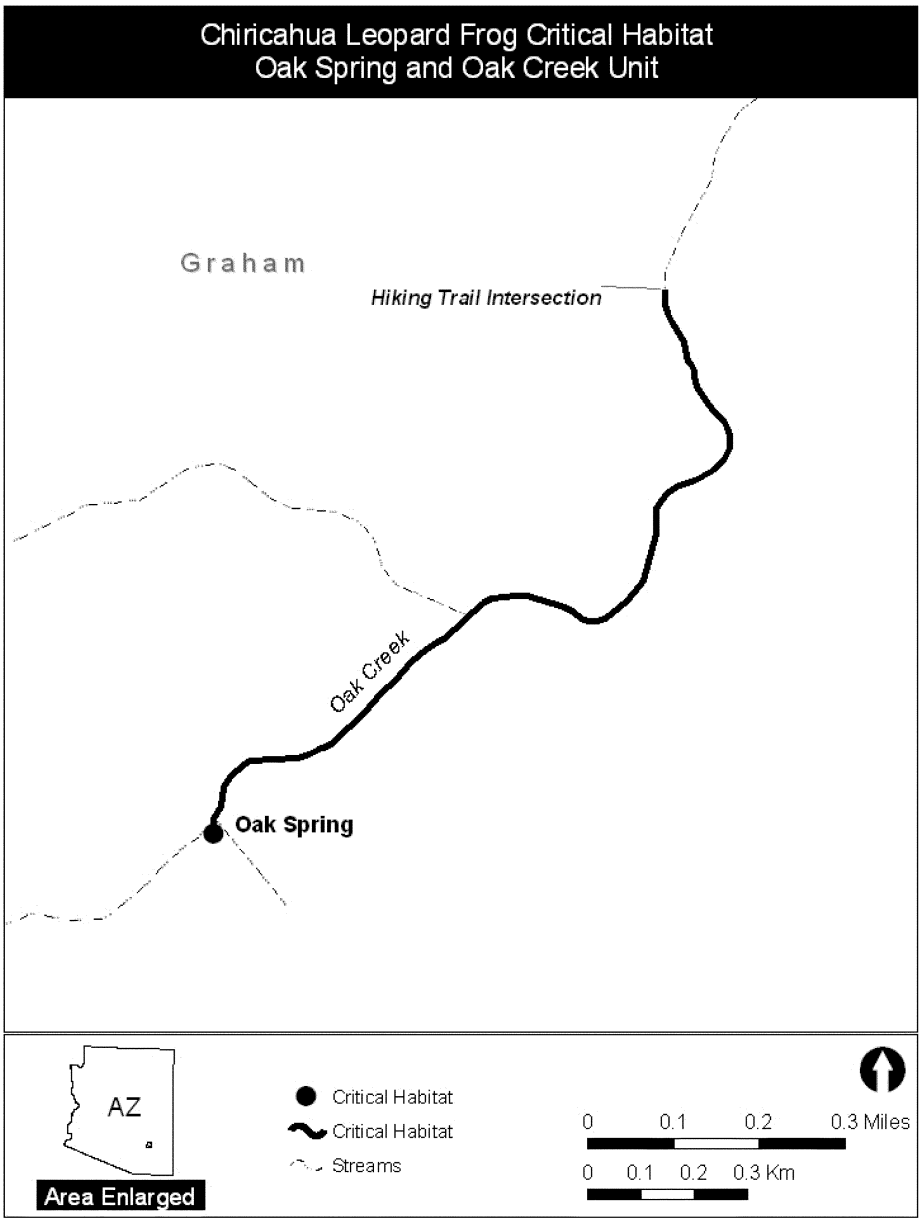
(x) Map of Deer Creek Unit follows:



(22) Oak Spring and Oak Creek Unit, Graham County, Arizona.

(i) Oak Creek from Oak Spring (32.673538 N, 110.293214 W) downstream to where a hiking trail intersects the creek (32.682618 N, 110.283915 W), an approximate stream distance of 1.06 miles (1.71 kilometers).

(ii) Map of Oak Spring and Oak Creek Unit follows:



(23) Dragoon Mountains Unit, Cochise County, Arizona.

(i) Shaw Tank (31.906230 N, 109.958350 W).

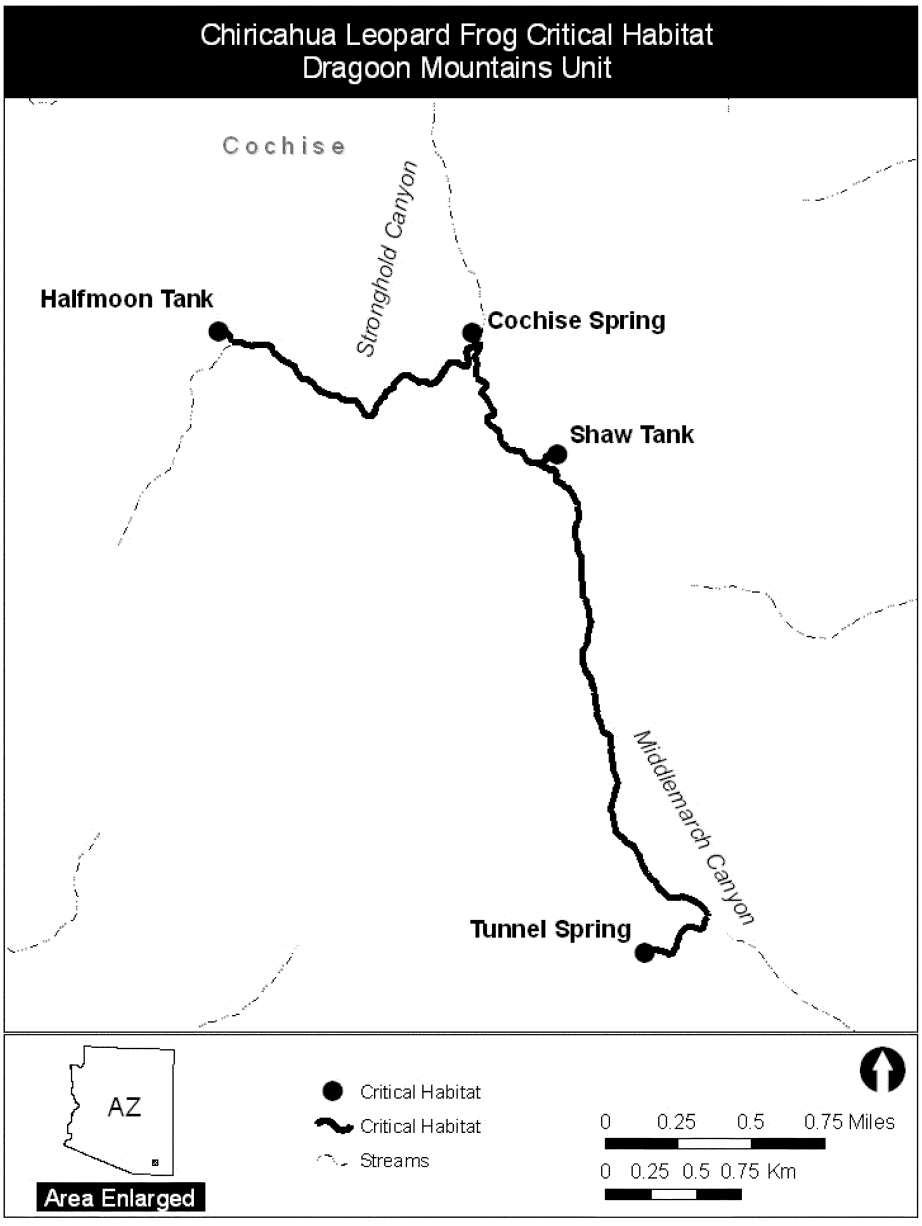
(ii) Tunnel Spring (31.881018 N, 109.948182 W).

(iii) Halfmoon Tank (31.912453 N, 109.977963 W).

(iv) Stronghold Canyon from Halfmoon Tank (31.912453 N, 109.977963 W) downstream to Cochise Spring (31.912026 N, 109.963266 W), then upstream in an unnamed canyon to

Shaw Tank (31.906230 N, 109.958350 W), and continuing upstream to the headwaters of that unnamed canyon (31.898491 N, 109.956589 W), then across a saddle and directly downslope to Middlemarch Canyon (31.894591 N, 109.956429 W), downstream in Middlemarch Canyon to its confluence with an unnamed drainage (31.883322 N, 109.949925 W), then upstream in that drainage to Tunnel Spring (31.881018 N, 109.948182 W), an approximate distance of 3.71 drainage miles (5.97 kilometers) and 1,300 feet (396 meters) overland.

(v) Map of Dragoon Mountains Unit follows:



(24) Buckskin Hills Unit, Yavapai County, Arizona.

(i) Sycamore Basin Tank (34.481619 N, 111.641676 W).

(ii) Middle Tank (34.473076 N, 111.624488 W).

(iii) Walt's Tank (34.455959 N, 111.638497 W).

(iv) Partnership Tank (34.452241 N, 111.646271 W).

(v) Black Tank (34.462968 N, 111.623554 W).

(vi) Buckskin Tank (34.472660 N, 111.652468 W).

(vii) Doren's Defeat Tank (34.446271 N, 111.641269 W).

(viii) Needed Tank (34.461023 N, 111.631271 W).

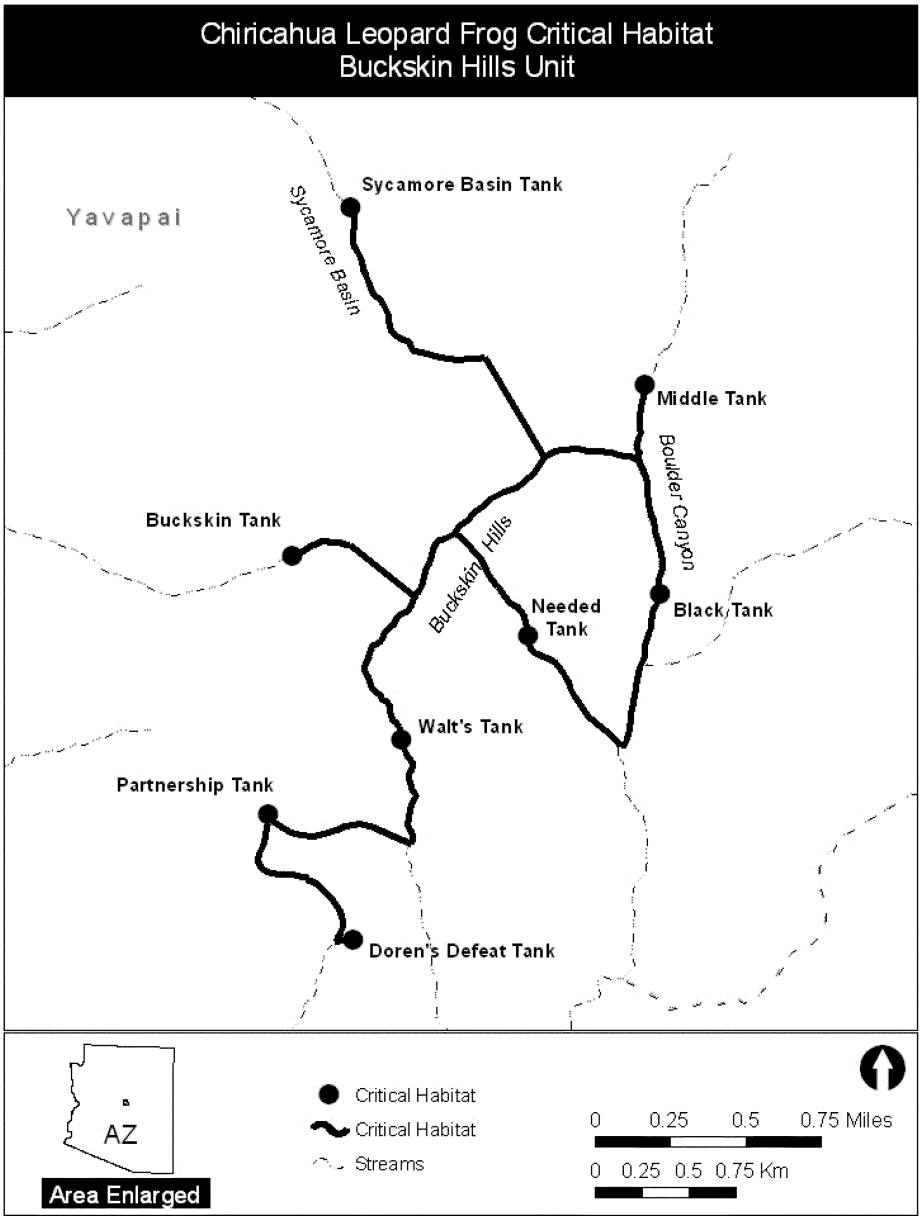
(ix) From Middle Tank (34.473076 N, 111.624488 W) downstream in Boulder Canyon to its confluence with an unnamed drainage that comes in from the northwest (34.455688 N, 111.625895 W), to include Black Tank (34.462968 N, 111.623554 W); then upstream in that unnamed drainage to a saddle (34.464120 N, 111.633633 W), to include Needed Tank (34.461023 N, 111.631271 W); then downstream from the saddle in an unnamed drainage to its confluence with another unnamed drainage (34.466209 N, 111.636096); then downstream in that drainage to the confluence with an unnamed drainage (34.450688 N, 111.638111 W), to include Walt's Tank (34.455959 N, 111.638497 W), and upstream in that unnamed drainage to Partnership Tank (34.452241 N, 111.646271 W); then upstream from the aforementioned confluence (34.466209 N, 111.636096) in the unnamed drainage that includes Walt's Tank to a point where the drainage turns east towards Boulder Canyon (34.469911 N, 111.630080 W), an approximate distance of 3.65 drainage miles (5.87 kilometers) and 425 feet (130 meters) overland.

(x) From Doren's Defeat Tank (34.446271 N, 111.641269 W) upstream in an unnamed drainage to Partnership Tank (34.452241 N, 111.646271 W), an approximate drainage distance of 3,310 feet (1,009 meters).

(xi) From the confluence of an unnamed drainage with Boulder Canyon (34.469515 N, 111.624979 W) west to a point where the drainage turns southwest (34.469911 N, 111.630080 W), then directly overland to the top of Sycamore Basin (34.473970 N, 111.633584 W), and then downstream in Sycamore Basin to Sycamore Basin Tank (34.481619 N, 111.641676 W), an approximate distance of 4,658 drainage feet (1,420 meters) and 1,827 feet (557 meters) overland.

(xii) From Buckskin Tank upstream in an unnamed drainage to the top of that drainage (34.465121 N, 111.641428 W), then directly overland to an unnamed drainage (34.462851 N, 111.637797 W) that contains Walt's Tank, an approximate distance of 1,109 drainage feet (338 meters) and 1,429 feet (435 meters) overland.

(xiii) Map of Buckskin Hills Unit follows:



(25) Crouch, Gentry, and Cherry Creeks, and Parallel Canyon Unit, Gila County, Arizona.

(i) Trail Tank (34.176747 N, 110.812383 W).

(ii) HY Tank (34.148580 N, 110.831331 W).

(iii) Carroll Spring (34.133090 N, 110.838673 W).

(iv) West Prong of Gentry Creek from the confluence with an unnamed drainage (34.133243 N, 110.827755 W) downstream to a point (34.123475 N, 110.827872 W) where the

creek turns southwest and is directly east of a saddle, then west overland across that saddle to Cunningham Spring (34.121883 N, 110.841424 W), an approximate distance of 3,837 drainage feet (1,169 meters) and 1,883 feet (574 meters) overland.

(v) Pine Spring (34.148580 N, 110.831331 W).

(vi) Bottle Spring (34.145180 N, 110.837515 W).

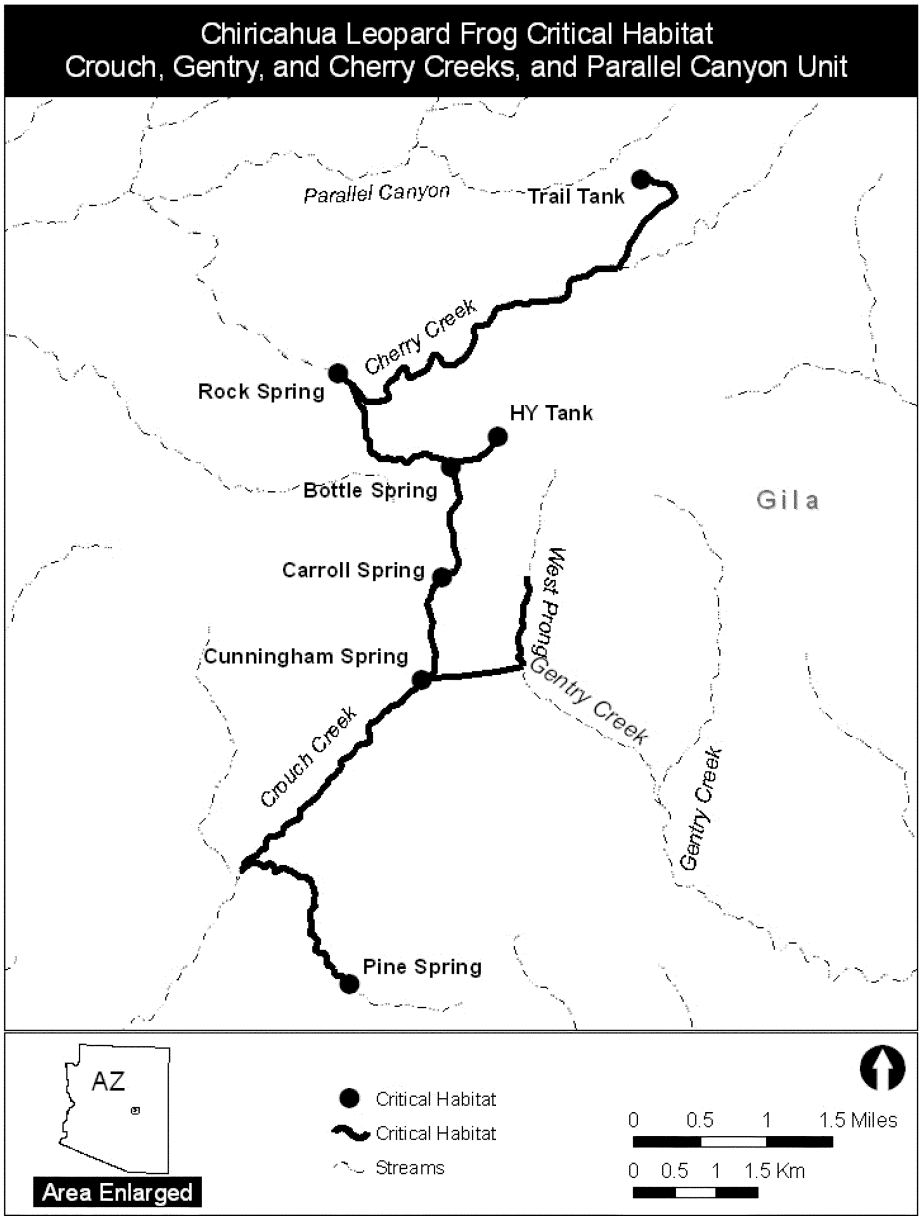
(vii) Cherry Creek from Rock Spring (34.155505 N, 110.852478 W) upstream to its confluence with an unnamed drainage (34.166956 N, 110.815587 W), then upstream in that drainage and across a saddle (34.176129 N, 110.808920 W), then downstream in an unnamed drainage to Trail Tank (34.176747 N, 110.812383 W), an approximate distance of 3.77 drainage miles (6.07 kilometers) and 975 feet (297 meters) overland.

(viii) Crouch Creek from its headwaters just south of Highway 288 (34.143151 N, 110.836876 W) downstream to an unnamed drainage leading to Pine Spring (34.102235 N, 110.864341 W), to include Cunningham Spring and Carroll Spring; then upstream in that unnamed drainage from Crouch Creek to Pine Spring (34.148580 N, 110.831331 W), an approximate drainage distance of 5.48 miles (8.82 kilometers).

(ix) From HY Tank (34.176747 N, 110.812383 W) downstream in an unnamed drainage to its confluence with Cherry Creek (34.154309 N, 110.85077 W), to include Bottle Spring (34.145180 N, 110.837515 W), an approximate stream distance of 1.66 miles (2.67 kilometers).

(x) From Bottle Spring (34.145180 N, 110.837515 W) south over a low saddle to the headwaters of Crouch Creek (34.143151 N, 110.836876 W), an approximate distance of 762 feet (232 meters) overland.

(xi) Map of Crouch, Gentry, and Cherry Creeks, and Parallel Canyon Unit follows:



(26) Ellison and Lewis Creeks Unit, Gila County, Arizona.

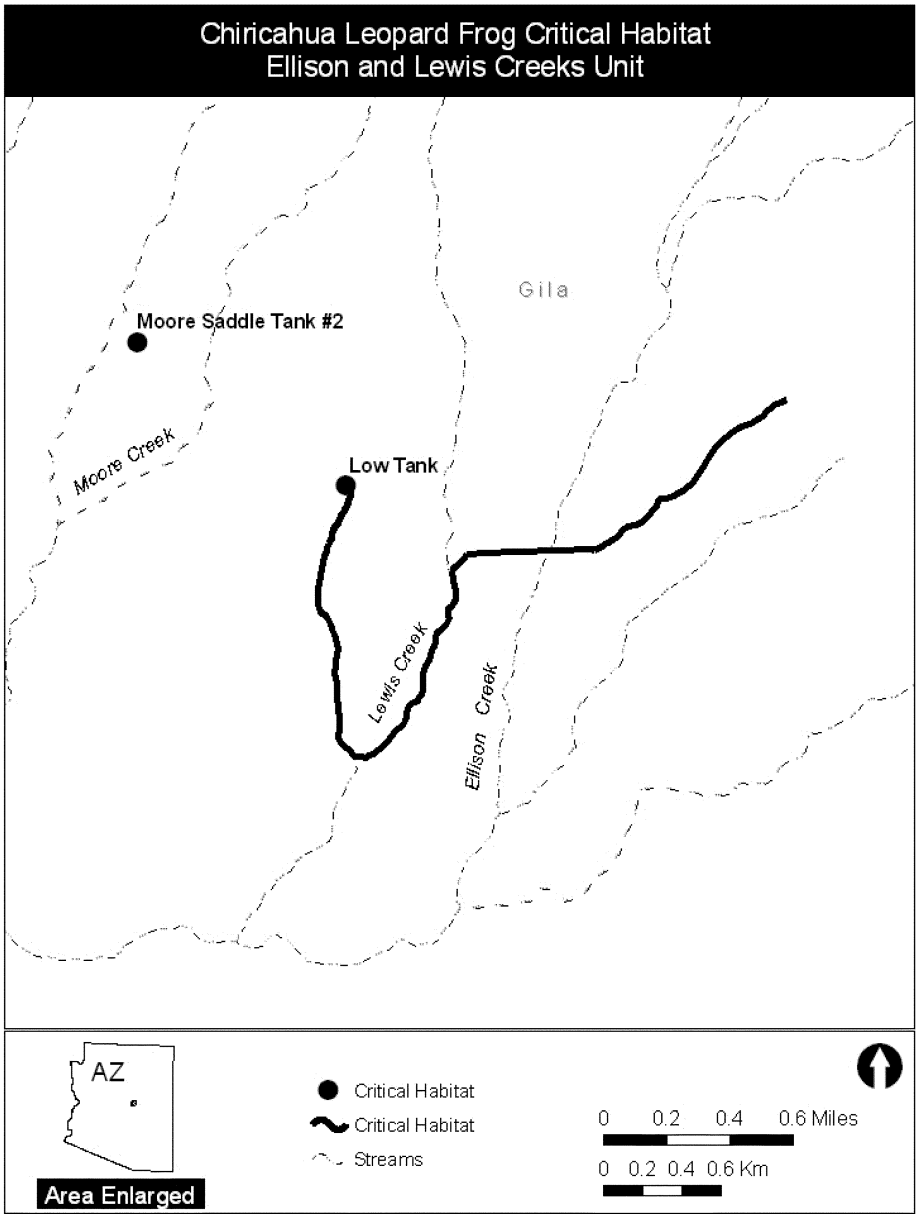
(i) Moore Saddle Tank #2 (34.374063 N, 111.205040 W).

(ii) Low Tank (34.36768 N, 111.19347 W).

(iii) Unnamed tributary to Ellison Creek from its confluence with an unnamed drainage (34.371458 N, 111.169111 W) downstream to Ellison Creek below Pyle Ranch (34.364667 N, 111.179966 W), then directly west across the

Ellison Creek floodplain and over a low saddle to Lewis Creek below Pyle Ranch (34.364391 N, 111.186742 W), then downstream in Lewis Creek to its confluence with an unnamed drainage (34.354912 N, 111.192547 W), and then upstream in that unnamed drainage to Low Tank (34.36768 N, 111.19347 W), an approximate distance of 2.52 drainage miles (4.05 kilometers) and 1,070 feet (326 meters) overland.

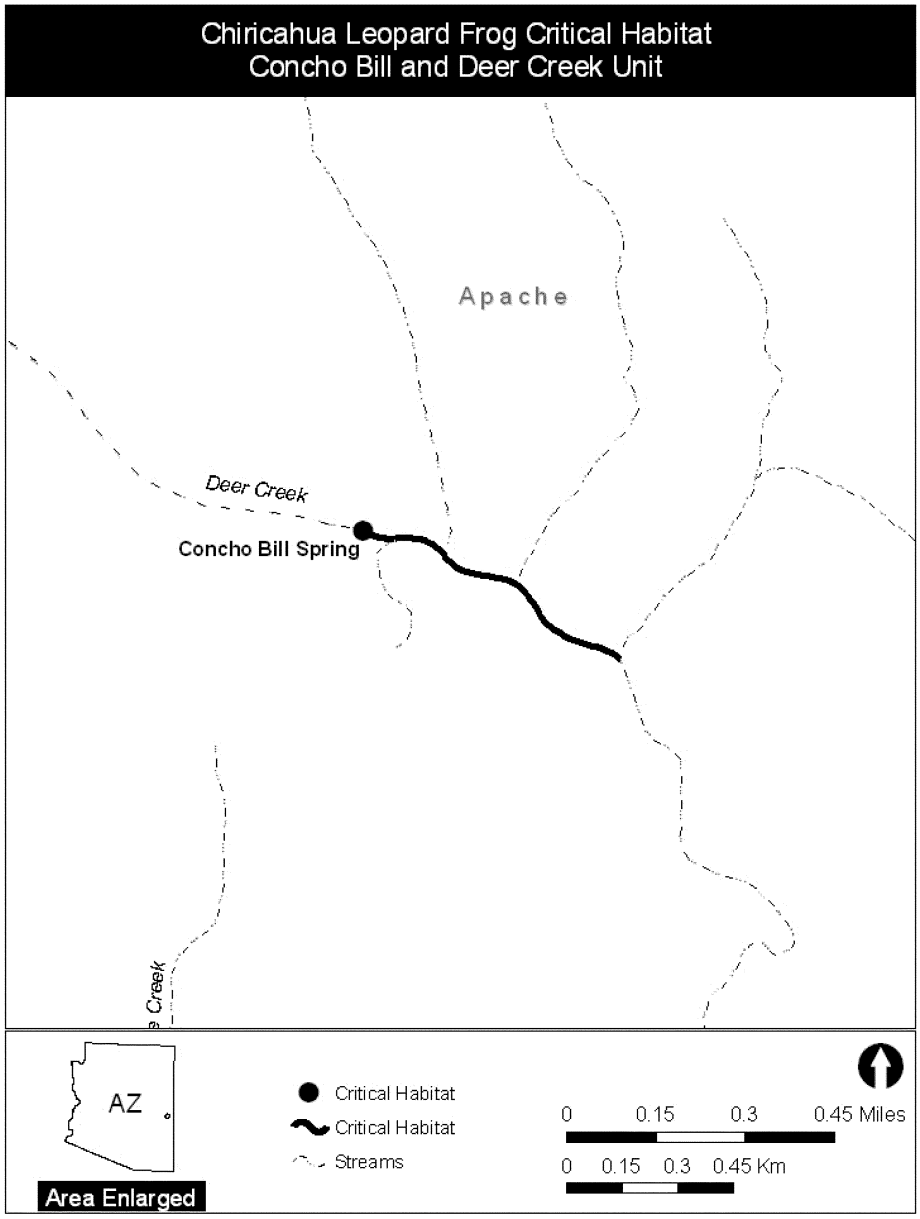
(iv) Map of Ellison and Lewis Creeks Unit follows:



(27) Concho Bill and Deer Creek Unit, Apache County, Arizona.

(i) From Concho Bill Spring (33.830088 N, 109.366540 W) downstream in Deer Creek to its confluence with an unnamed drainage (33.827115 N, 109.359495 W), an approximate drainage distance of 2,667 feet (813 meters).

(ii) Map of Concho Bill and Deer Creek Unit follows:

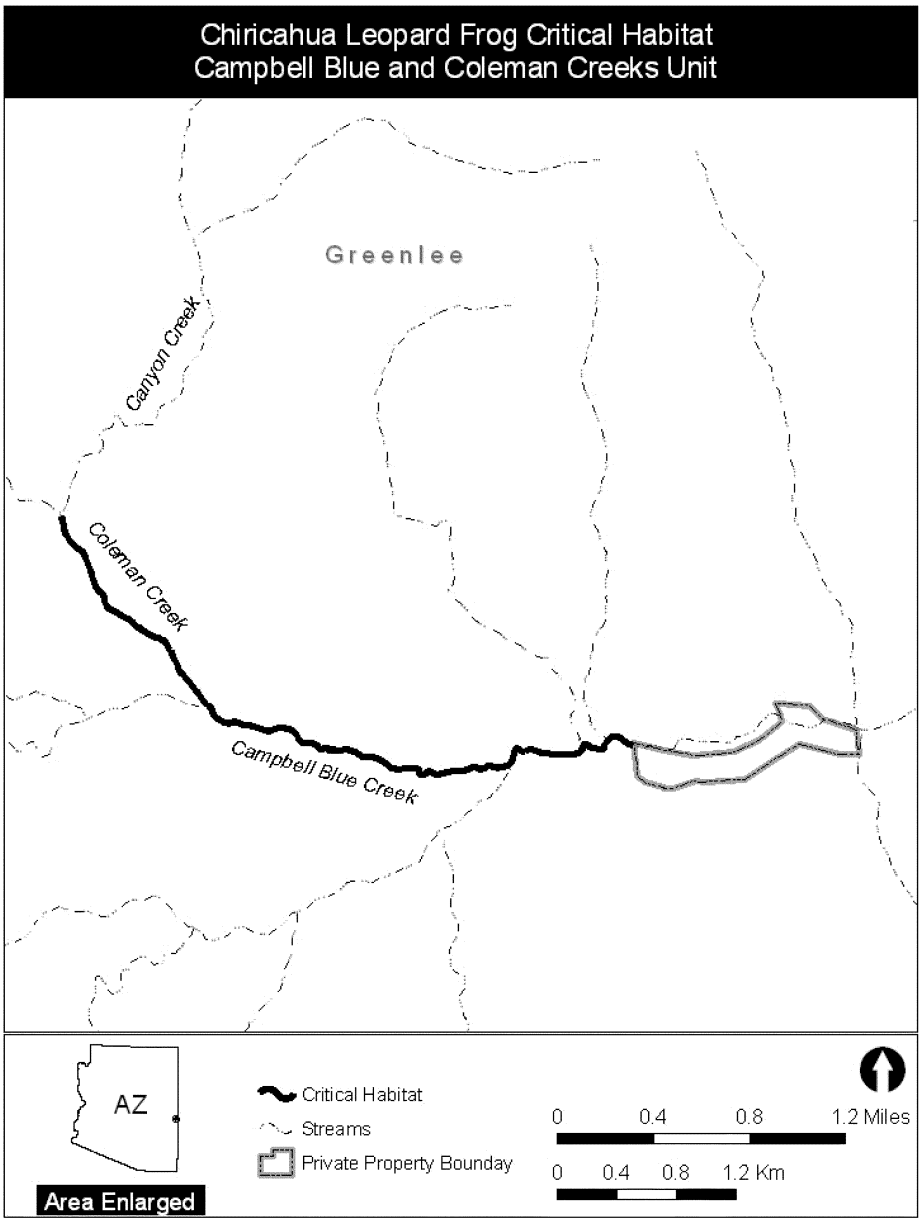


(28) Campbell Blue and Coleman Creeks Unit, Greenlee County, Arizona.

(i) Campbell Blue Creek from the upstream boundary of Luce Ranch (33.735956 N, 109.127746 W) upstream to its confluence with Coalman Creek (33.738560 N, 109158679 W), an approximate stream distance of 2.04 miles (3.28 kilometers).

(ii) Coleman Creek from its confluence with Campbell Blue Creek (33.738560 N, 109158679 W) upstream to its confluence with Canyon Creek (33.750139 N, 109.168850 W), an approximate stream distance of 1.04 miles (1.68 kilometers).

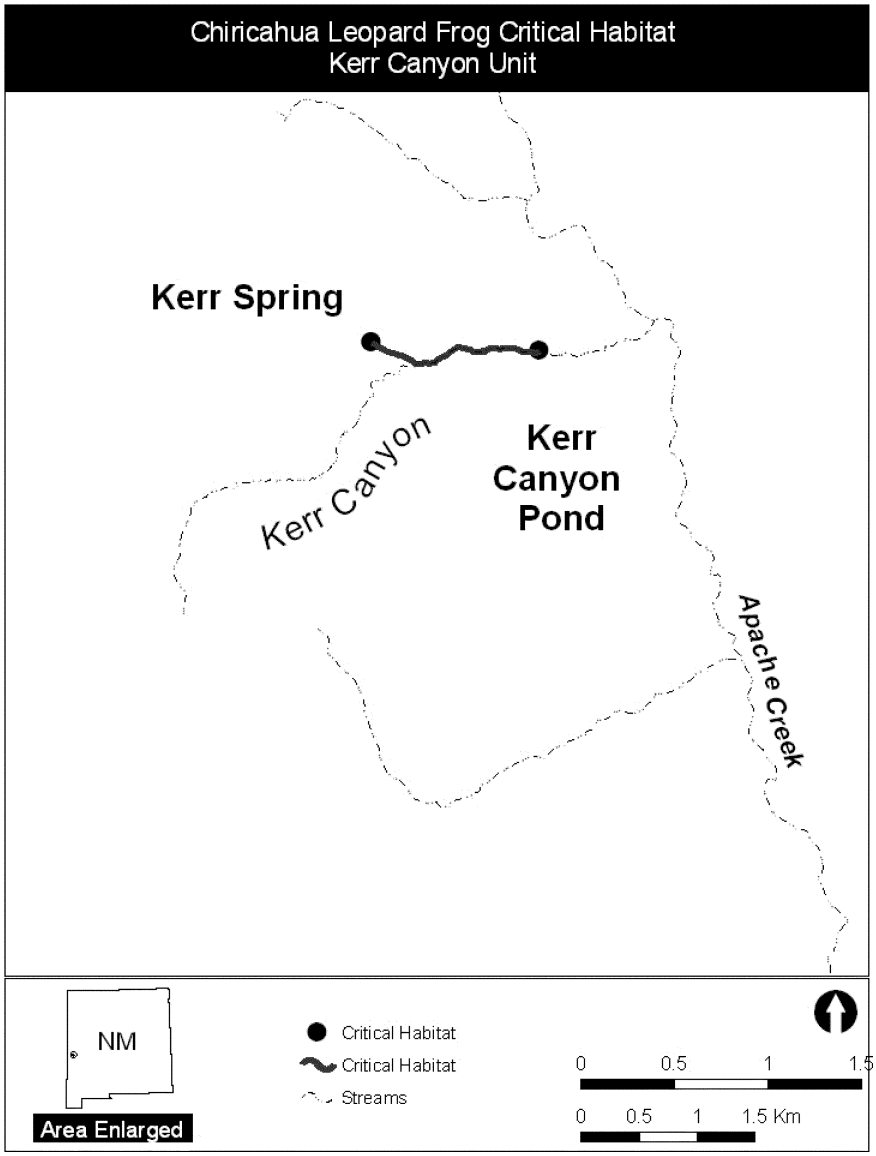
(iii) Map of Campbell Blue and Coleman Creeks Unit follows:



(29) Kerr Canyon Unit, Catron County, New Mexico.

(i) From Kerr Spring (33.900561 N, 108.664732 W) downstream in unnamed drainage in Kerr Canyon to Kerr Canyon Pond (33.649088 N, 108.517011 W), a distance of approximately 0.98 drainage miles (1.58 km).

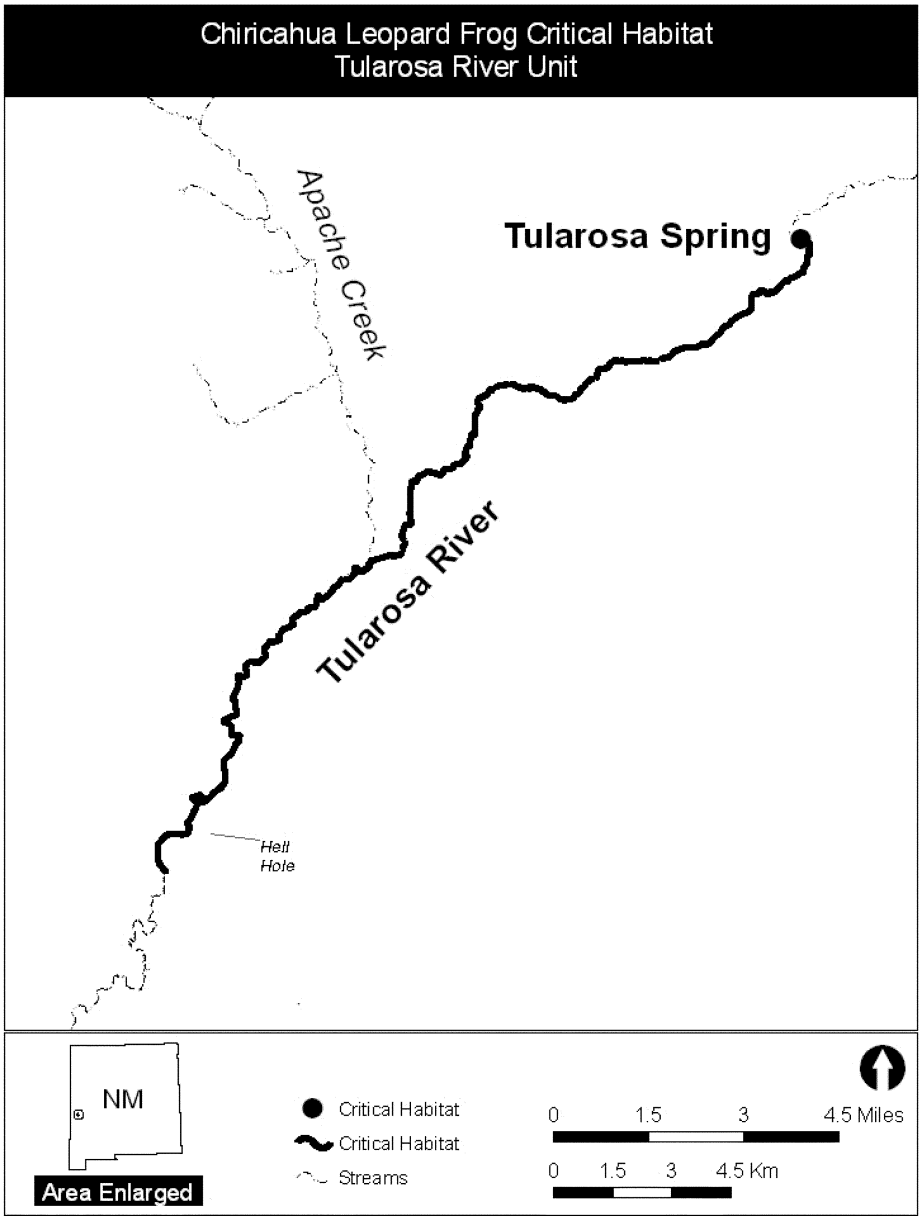
(ii) Map of Kerr Canyon Unit follows:



(30) Tularosa River Unit, Catron County, New Mexico.

(i) Tularosa River from the upper end of Tularosa Spring (33.903798 N, 108.501926 W) downstream to the entrance to the canyon downstream of Hell Hole (33.762737 N, 108.681551 W), an approximate river distance of 19.31 miles (31.08 kilometers).

(ii) Map of Tularosa River Unit follows:



(31) Deep Creek Divide Area Unit, Catron County, New Mexico.

(i) Long Mesa Tank (33.551664 N, 108.686841 W).

(ii) Cullum Tank (33.554864 N, 108.676961 W).

(iii) Burro Tank (33.571146 N, 108.638682 W).

(iv) North Fork of Negrito Creek from its confluence with South Fork of Negrito Creek (33.607082 N, 108.631340 W) upstream to its confluence with an unnamed drainage (33.612529 N, 108.614731 W), an approximate

stream distance of 1.37 miles (2.20 kilometers).

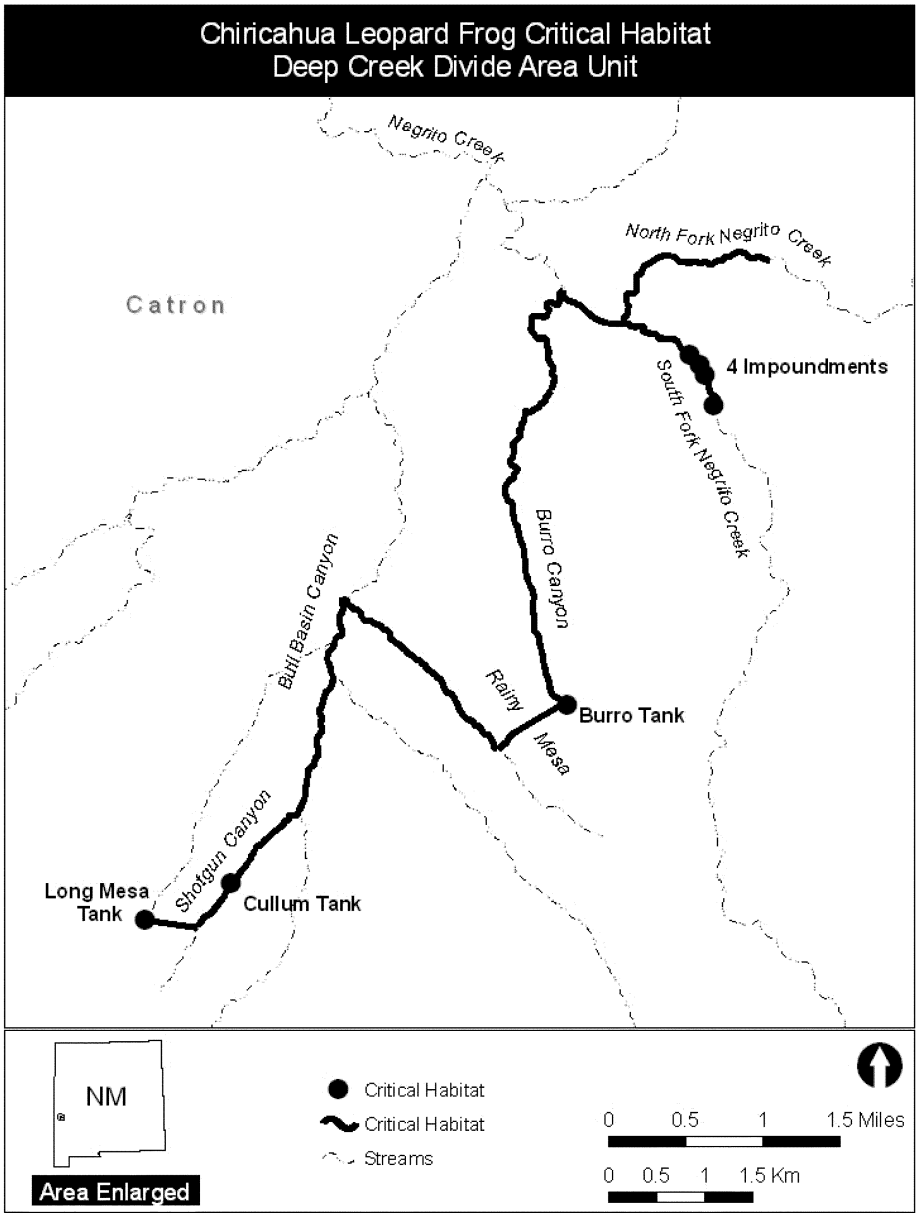
(v) South Fork of Negrito Creek from its confluence with North Fork of Negrito Creek (33.607082 N, 108.631340 E) upstream to an impoundment (33.599047 N, 108.621300 W), including three other impoundments along the channel (33.601890 N, 108.622227 W; 33.602845 N, 108.622764 W; and 33.603810 N, 108.623971 W), an approximate stream distance of 4,821 feet (1,469 meters).

(vi) From Burro Tank (33.571146 N, 108.638682 W) downstream in Burro Canyon to Negrito Creek (22.609589 N, 108.638448 W), then upstream in Negrito Creek to the confluence of North and South Forks of Negrito Creeks (33.607082 N, 108.631340 W), an approximate stream distance of 3.80 miles (6.12 kilometers).

(vii) From Long Mesa Tank (33.551664 N, 108.686841 W) directly overland and east to Shotgun Canyon (33.550816 N, 108.681110 W), then downstream in that canyon to Cullum Tank (33.554864 N, 108.676961 W), an approximate distance of 2,003 drainage feet (610 meters) and 1,801 feet (549 meters) overland.

(viii) From Cullum Tank (33.554864 N, 108.676961 W) downstream in Shotgun and Bull Basin Canyons to a confluence with an unnamed drainage (33.581626 N, 108.663624 W), then upstream in that drainage to the confluence with a minor drainage leading off Rainy Mesa from the east-northeast (33.567121 N, 108.646776 W), then upstream in that drainage and directly east-northeast across Rainy Mesa to Burro Tank (33.571146 N, 108.638682 W), an approximate distance of 3.88 drainage miles (6.24 kilometers) and 1,863 feet (568 meters) overland.

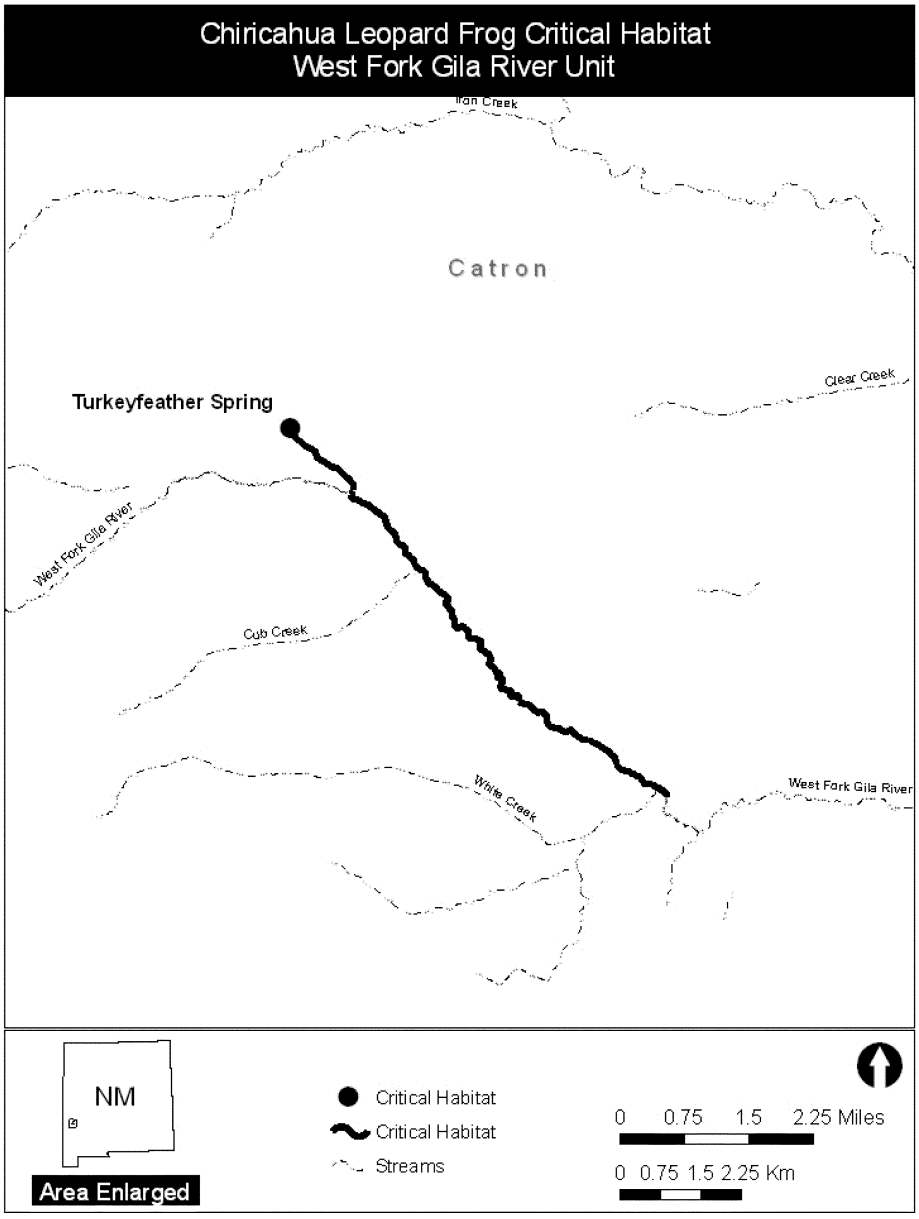
(ix) Map of Deep Creek Divide Area Unit follows:



(32) West Fork Gila River Unit, Catron County, New Mexico.

(i) From Turkeyfeather Spring (33.337486 N, 108.528607 W) downstream in Turkeyfeather Creek to its confluence with West Fork Gila River (33.32593 N, 108.517011 W), then downstream and southeast in West Fork Gila River to its confluence with White Creek (33.3274675 N, 108.4925 W), a distance of approximately 6.97 drainage miles (11.22 km).

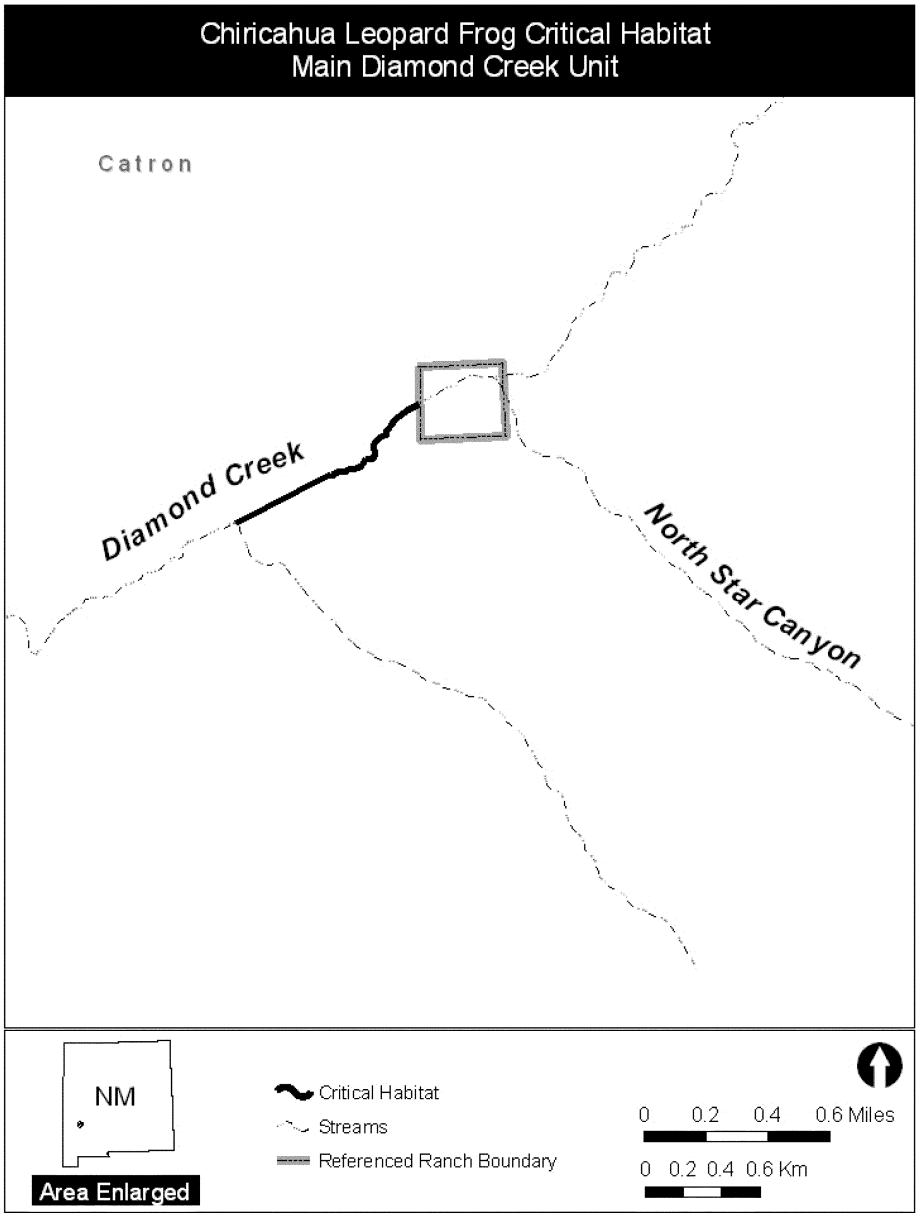
(ii) Map of West Fork Gila River Unit follows:



(33) Main Diamond Creek Unit, Catron County, New Mexico.

(i) Main Diamond Creek, from the downstream boundary of Links Ranch (33.269512 N, 108.105542 W) downstream to the confluence with an unnamed drainage that comes in from the south, which is also where Main Diamond Creek enters a canyon (33.264514 N, 108.116019 W), an approximate stream distance of 3,980 feet (1,213 meters).

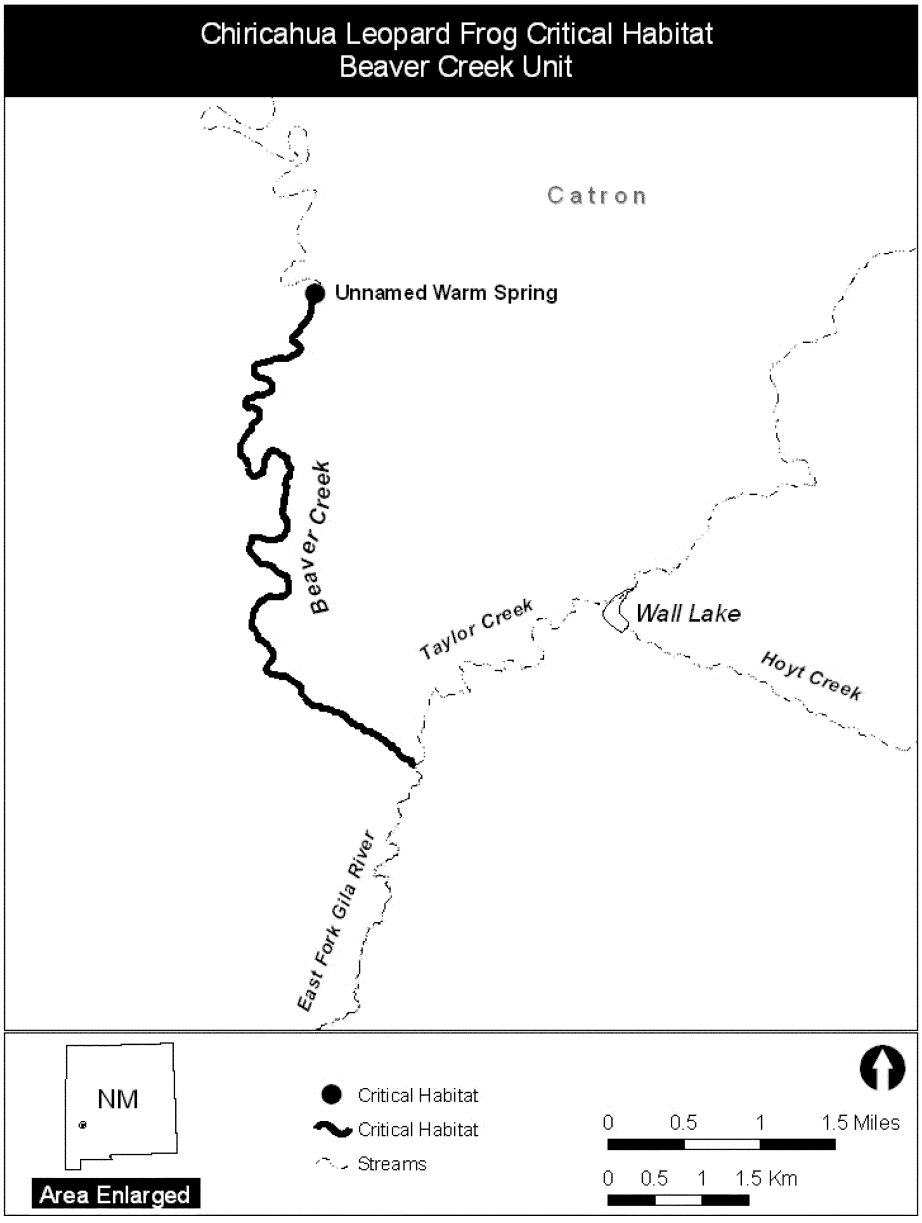
(ii) Map of Main Diamond Creek Unit follows:



(34) Beaver Creek Unit, Catron County, New Mexico.

(i) Beaver Creek from an unnamed warm spring (33.380952 N, 108.111761 W) downstream to its confluence with Taylor Creek (33.334694 N, 108.101543 W), an approximate stream distance of 5.59 miles (8.89 kilometers).

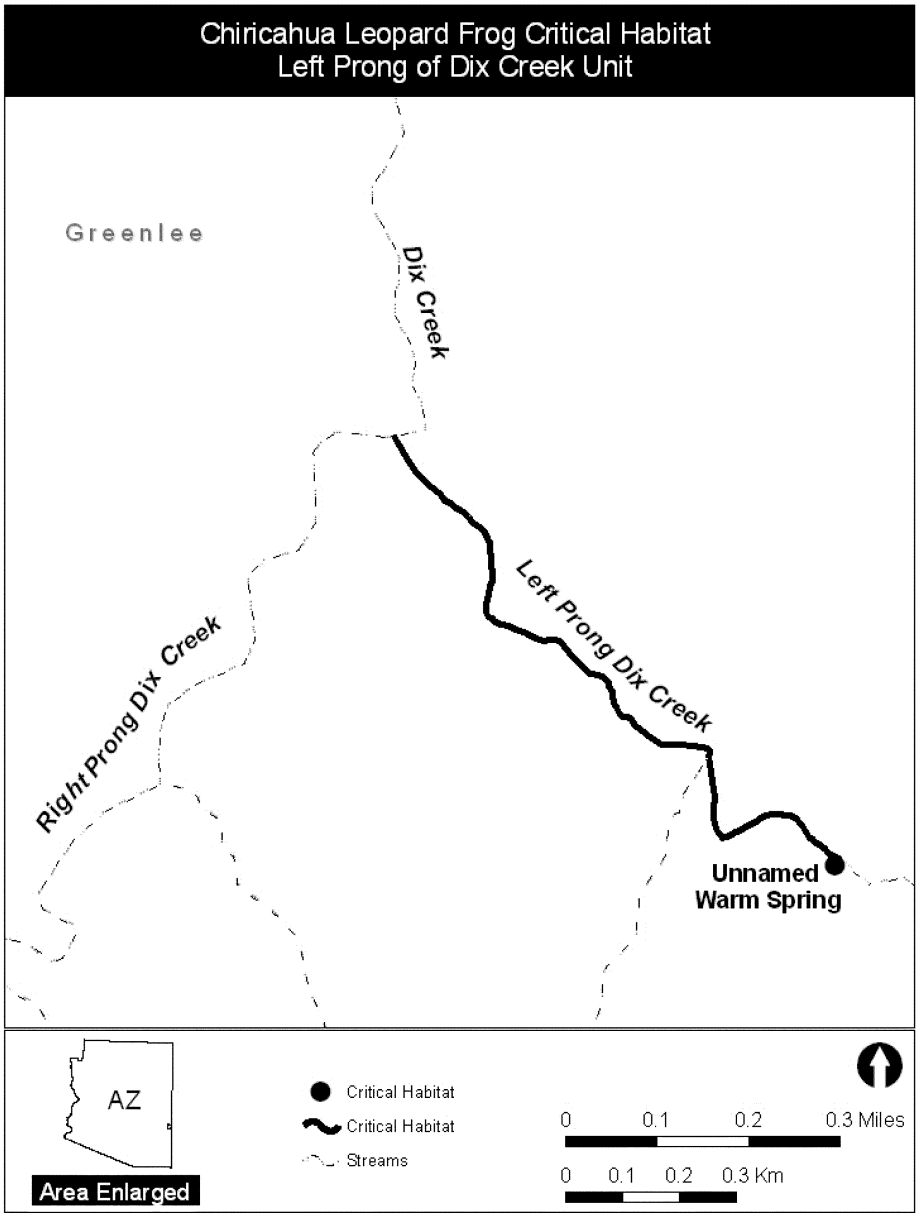
(ii) Map of Beaver Creek Unit follows:



(35) Left Prong of Dix Creek Unit, Greenlee County, Arizona.

(i) Left prong of Dix Creek from an unnamed warm spring (33.179413 N, 109.149176 W) above ''The Hole'' downstream to its confluence with the right prong of Dix Creek (33.186657 N, 109.157754 W), an approximate stream distance of 4,248 feet (1,295 meters).

(ii) Map of Left Prong of Dix Creek Unit follows:



(36) Rattlesnake Pasture Tank and Associated Tanks Unit, Greenlee County, Arizona.

(i) Rattlesnake Pasture Tank (33.093987 N, 109.151714 W).

(ii) Rattlesnake Gap Tank (33.098497 N, 109.162152 W).

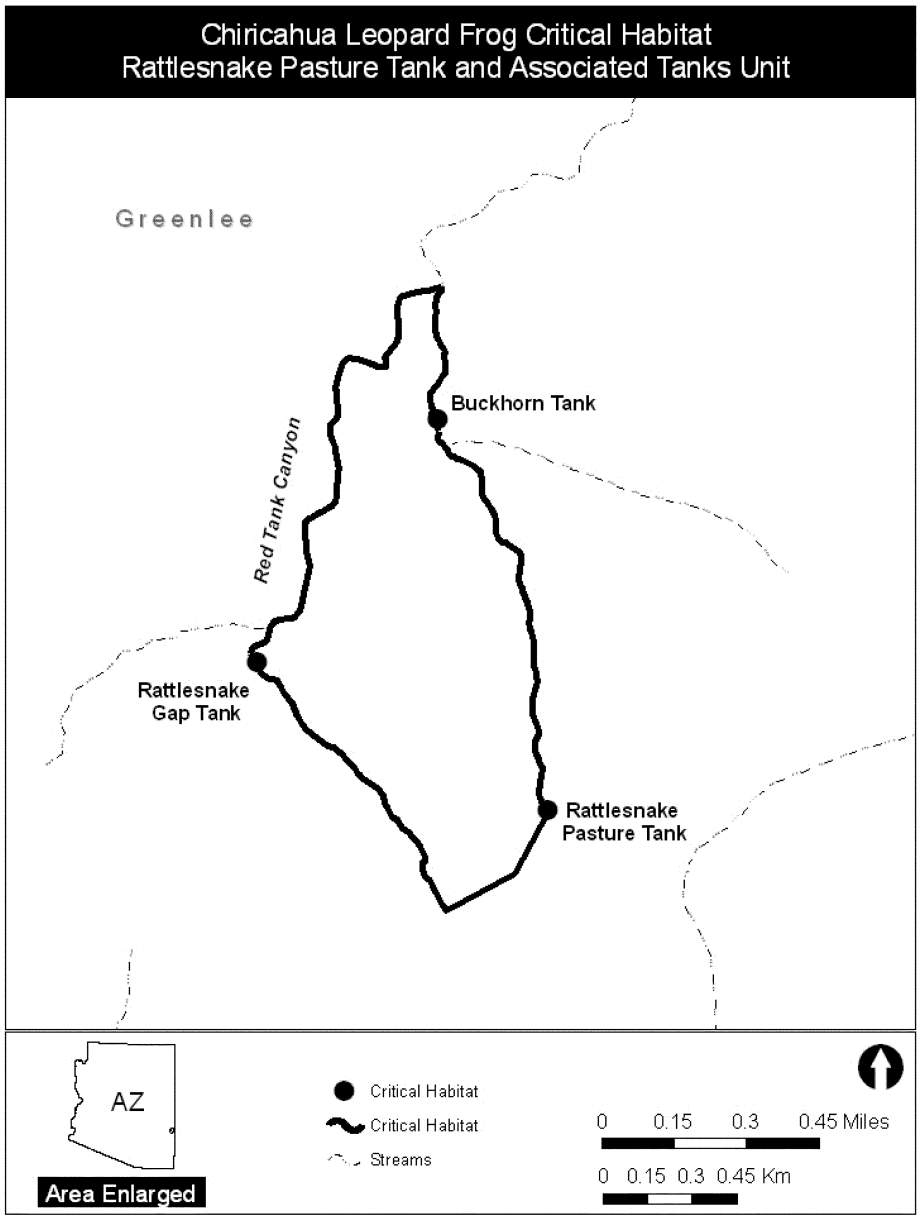
(iii) Buckhorn Tank (33.105613 N, 109.155506 W).

(iv) From Rattlesnake Pasture Tank (33.093987 N, 109.151714 W) downstream in an unnamed drainage to its confluence with Red Tank Canyon (33.109603 N, 109.155549 W), to

include Buckhorn Tank (33.105613 N, 109.155506 W); then upstream in Red Tank Canyon to Rattlesnake Gap Tank (33.098497 N, 109.162152 W), an approximate drainage distance of 2.27 miles (3.65 kilometers).

(v) From Rattlesnake Gap Tank (33.098497 N, 109.162152 W) upstream in an unnamed drainage to its confluence with a minor drainage (33.090898 N, 109.155386 W), then directly upslope to a saddle (33.091771 N, 109.152380), and across that saddle and directly downslope to Rattlesnake Pasture Tank (33.093987 N, 109.151714 W), an approximate distance of 3,722 drainage feet (1,134 meters) and 1,645 feet (501 meters) overland.

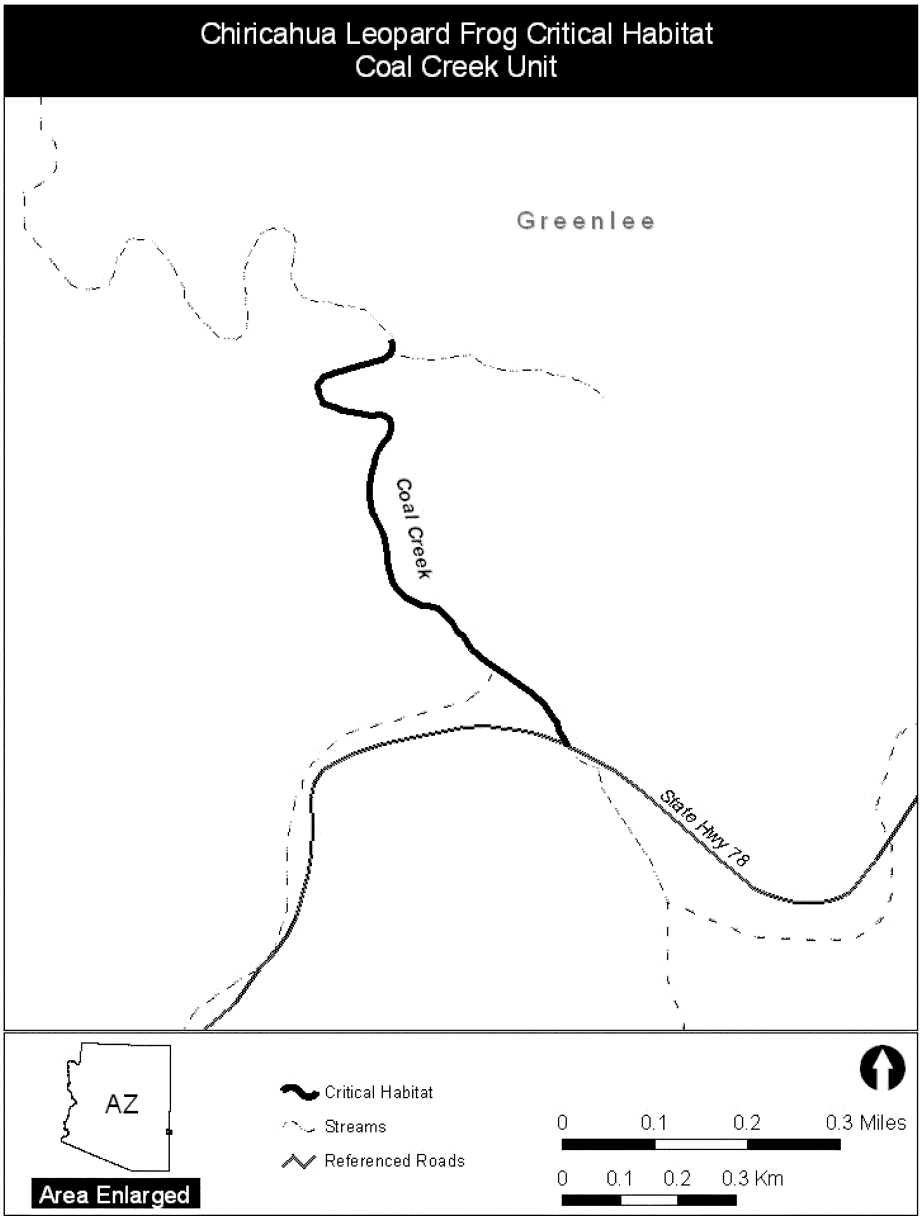
(vi) Map of Rattlesnake Pasture Tank and Associated Tanks Unit follows:



(37) Coal Creek Unit, Greenlee County, Arizona.

(i) Coal Creek from the Highway 78 crossing (33.103667 N, 109.062458 W) downstream to the confluence with an unnamed drainage (33.110025 N, 109.065847 W), an approximate stream distance of 3,447 feet (1,051 meters).

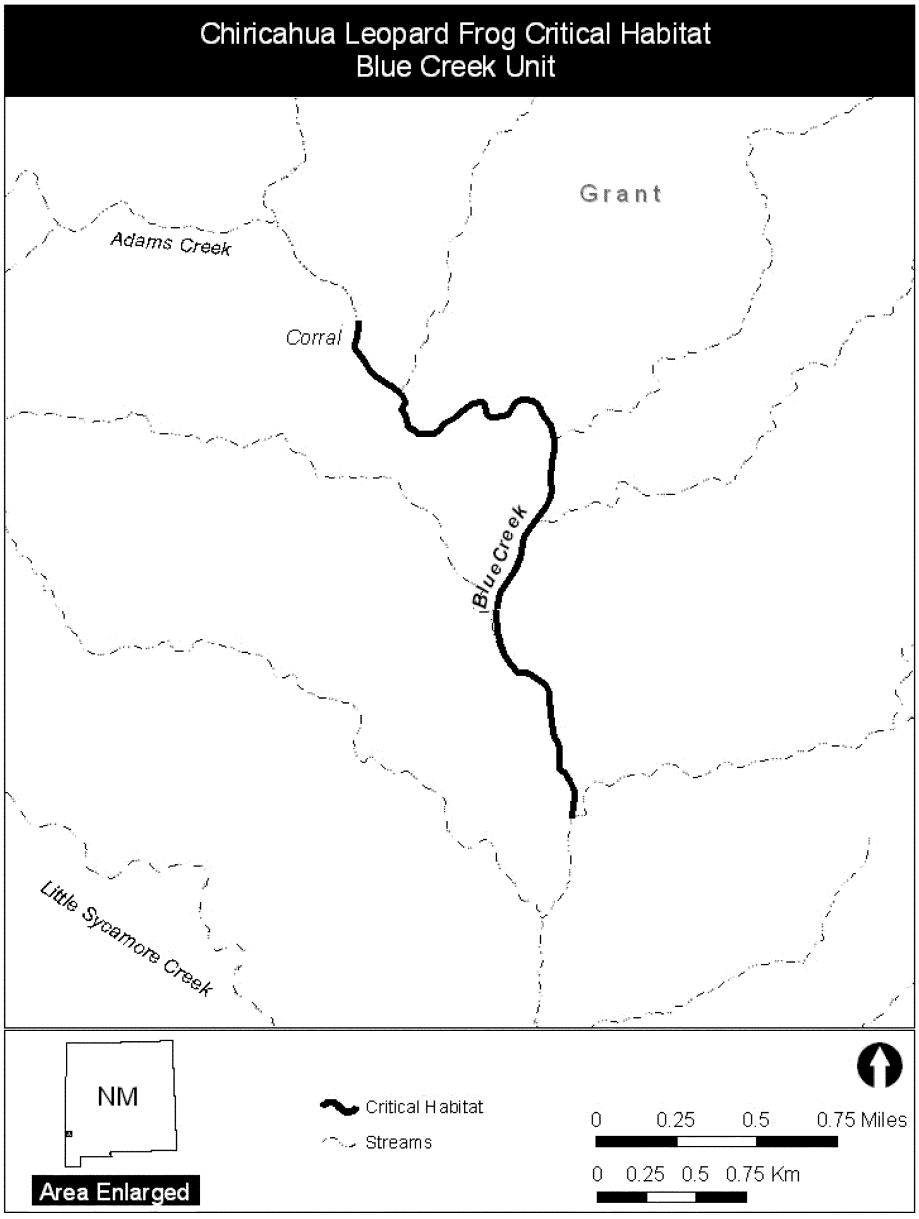
(ii) Map of Coal Creek Unit follows:



(38) Blue Creek Unit, Grant County, New Mexico.

(i) Blue Creek from just east of a corral on private lands (32.848702 N, 108.835761 W) downstream to its confluence with an unnamed drainage that comes in from the east (32.825785 N, 108.824742 W), an approximate stream distance of 2.37 miles (3.81 kilometers).

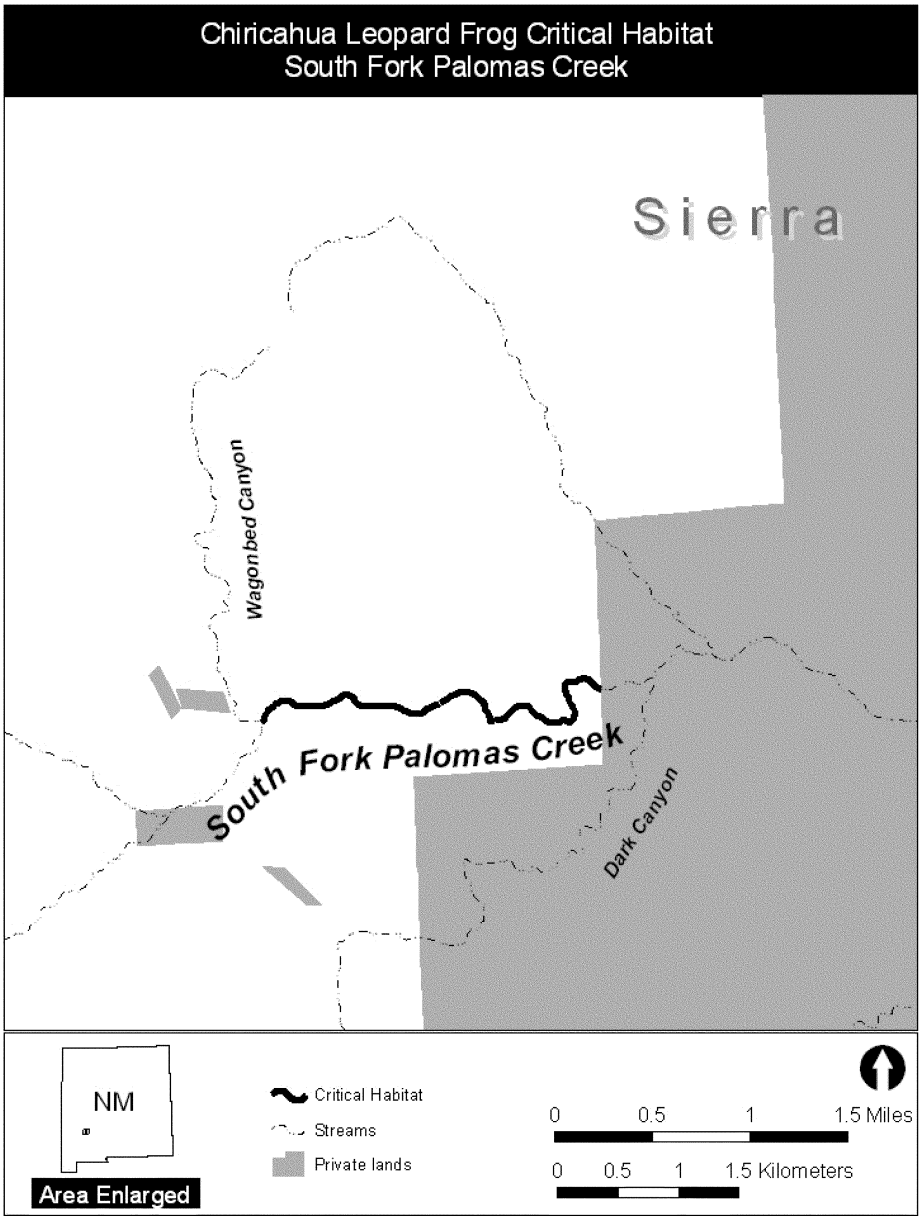
(ii) Map of Blue Creek Unit follows:



(39) South Fork Palomas Creek Unit, Sierra County, New Mexico.

(i) From the confluence of an unnamed tributary in Wagonbed Canyon and South Fork Palomas Creek (33.164592 N, 107.723155 W), downstream in South Fork Palomas Creek to its confluence with an unnamed tributary in Dark Canyon (33.167074 N, 107.68853 W), excluding the portions of South Fork Palomas Creek on privately owned lands of the Ladder Ranch, a distance of approximately 2.32 drainage miles (3.73 km).

(ii) Map of South Fork Palomas Creek Unit follows:

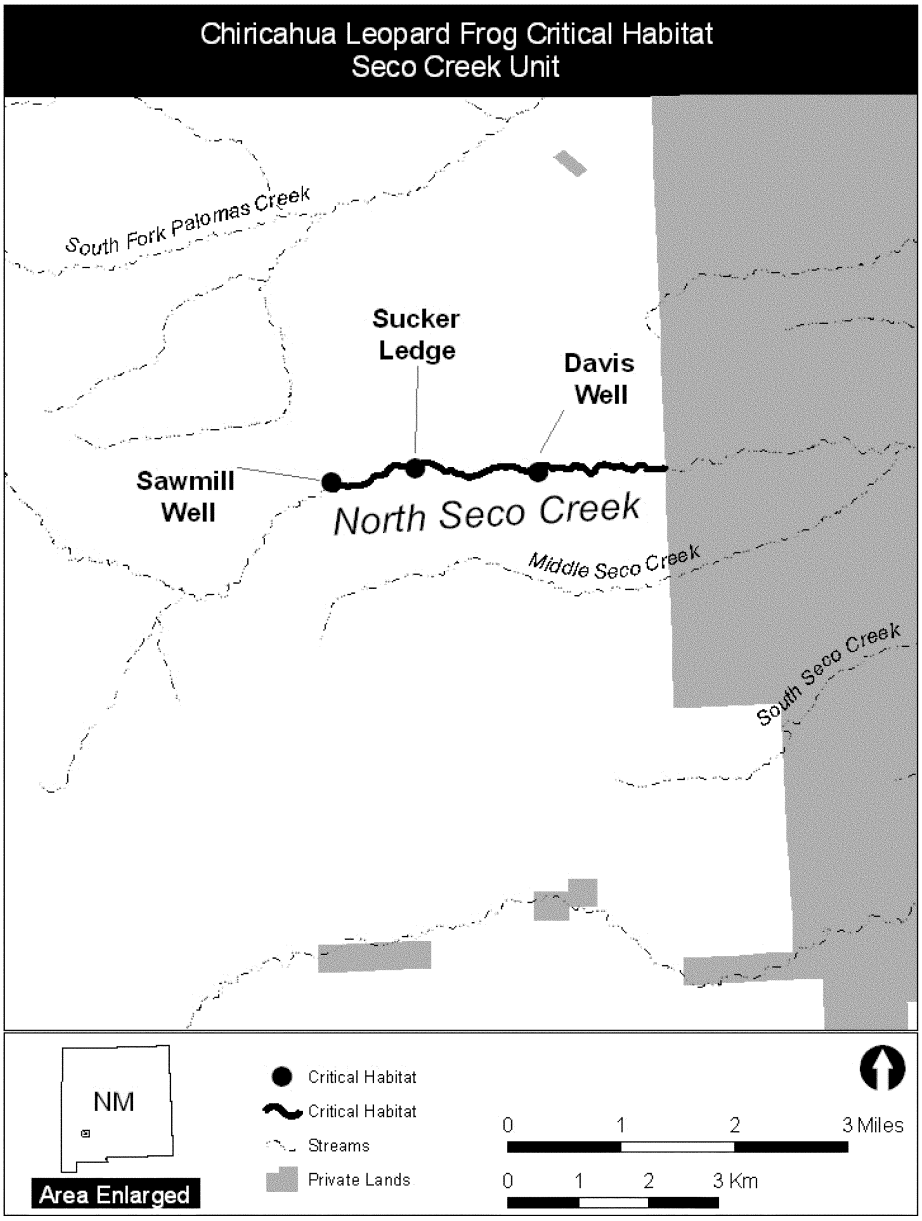


(40) Seco Creek Unit, Sierra County, New Mexico.

(i) North Seco Creek from Sawmill Well (33.112052 N, 107.760165 W) downstream to the

private land boundary of the Ladder Ranch (33.112689 N, 107.709554 W), to include Sawmill Well (33.112052 N, 107.760165 W), Sucker Ledge (33.113545 N, 107.747370 W), and Davis Well (33.112421 N 107.728650 W), an approximate drainage distance of 3.32 miles (5.35 kilometers).

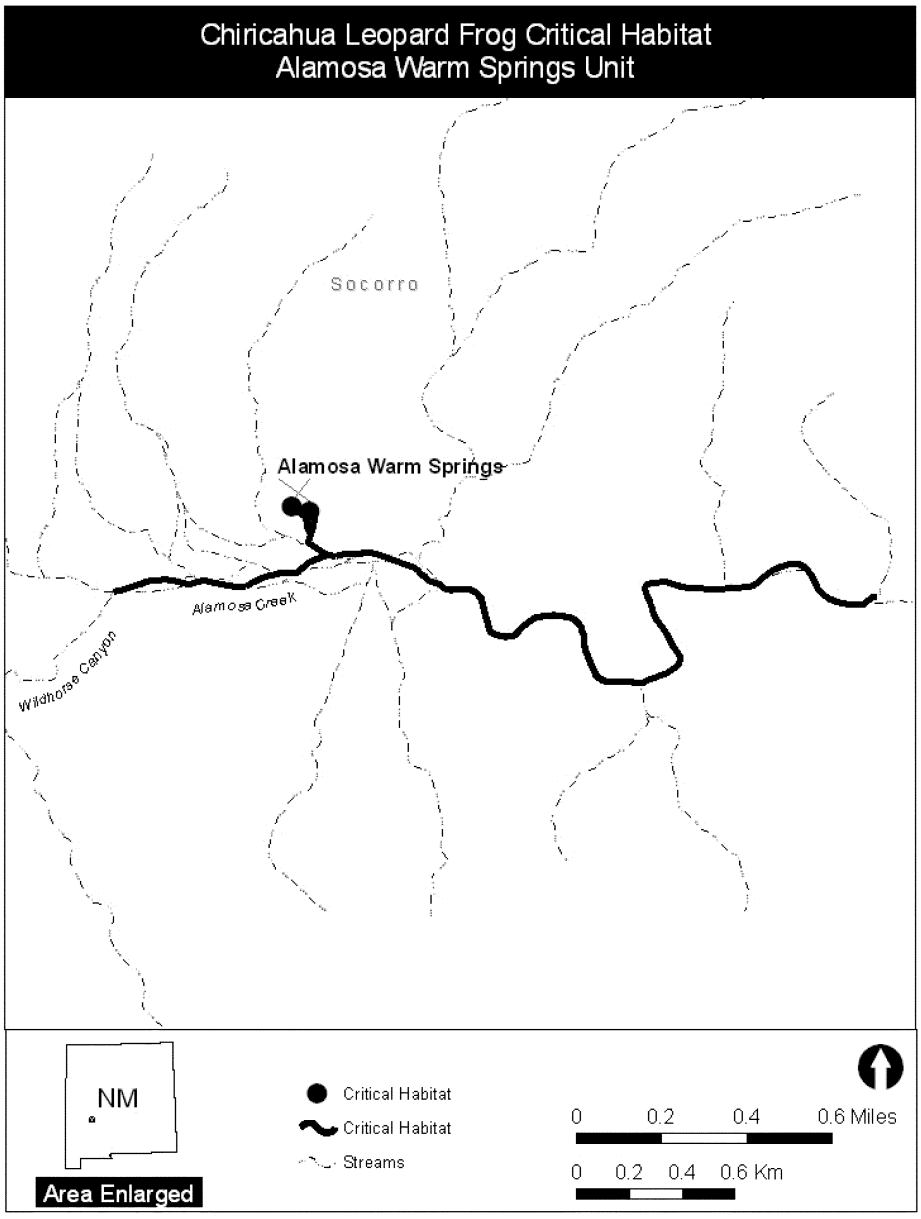
(ii) Map of Seco Creek Unit follows:



(41) Alamosa Warm Springs Unit, Socorro County, New Mexico.

(i) From the confluence of Wildhorse Canyon and Alamosa Creek (33.570315 N, 107.608474 W) downstream in Alamosa Creek to the confluence with an unnamed drainage that comes in from the north (33.569199 N, 107.577137 W), to include Alamosa Warm Springs (33.572365 N, 107.600153 W), an approximate stream distance of 4,974 feet (1,516 meters).

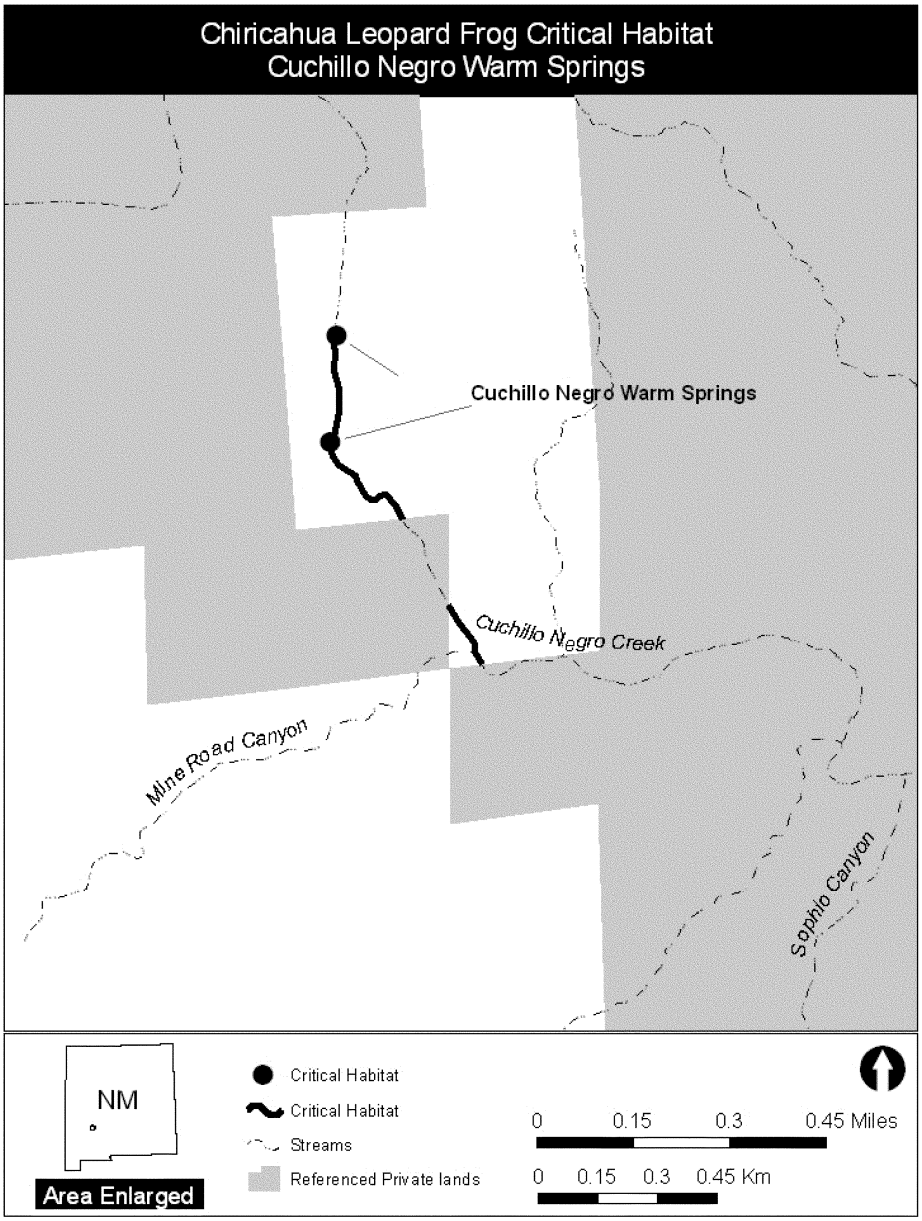
(ii) Map of Alamosa Warm Springs Unit follows:



(42) Cuchillo Negro Warm Springs and Creek Unit, Sierra County, New Mexico.

(i) From the upper of the two Cuchillo Negro Warm Springs (33.268403 N, 107.563619 W) downstream in Cuchillo Negro Creek to its confluence with an unnamed drainage that comes in from the north (33.271386 N, 107.557843 W), excluding the portions of Cuchillo Negro Creek on privately owned lands, an approximate stream distance of 2,518 feet (768 meters).

(ii) Map of Cuchillo Negro Warm Springs and Creek Unit follows:



(43) Ash and Bolton Springs Unit, Grant County, New Mexico.

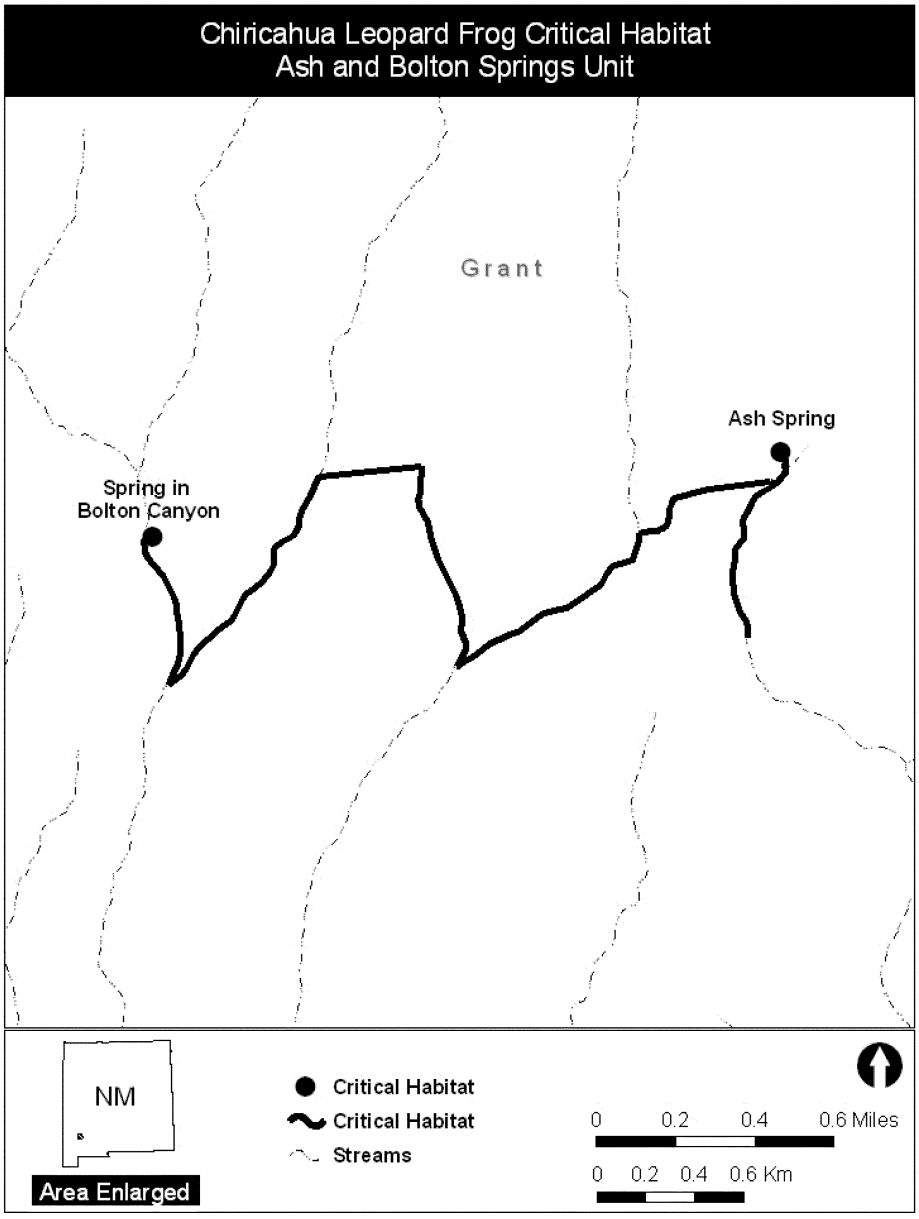
(i) Ash Spring (32.715625 N, 108.071980 W).

(ii) Unnamed spring in Bolton Canyon locally known as Bolton Springs (32.713419 N, 108.099679 W).

(iii) From the spring box at Ash Spring (32.715625 N, 108.071980 W) downstream to a dirt road crossing of the drainage (32.708769 N, 108.073579 W), an approximate stream distance of 2,830 feet (863 meters).

(iv) From the ruins of a house in the Ash Spring drainage (32.714562 N, 108.072542 W) west to a low saddle (32.714373 N, 108.075263 W) and directly downslope into an unnamed drainage (32.713983 N, 108.076665 W), then downstream in that drainage to its confluence with another unnamed drainage (32.712829 N, 108.078131 W), then downstream in that unnamed drainage to its confluence with another unnamed drainage (32.708210 N, 108.086360 W), then upstream in that unnamed drainage to the top of that drainage (32.715476 N, 108.087719 W) and directly downslope and west to another unnamed drainage (32.715207 N, 108.092094 W), then downstream in that unnamed drainage to its confluence with Bolton Canyon (32.707844 N, 108.099267 W), and then upstream in Bolton Canyon to the locally known Bolton Springs (32.713419 N, 108.099679 W), an approximate distance of 2.41 drainage miles (3.87 kilometers) and 2,650 feet (808 meters) overland.

(v) Map of Ash and Bolton Springs Unit follows:

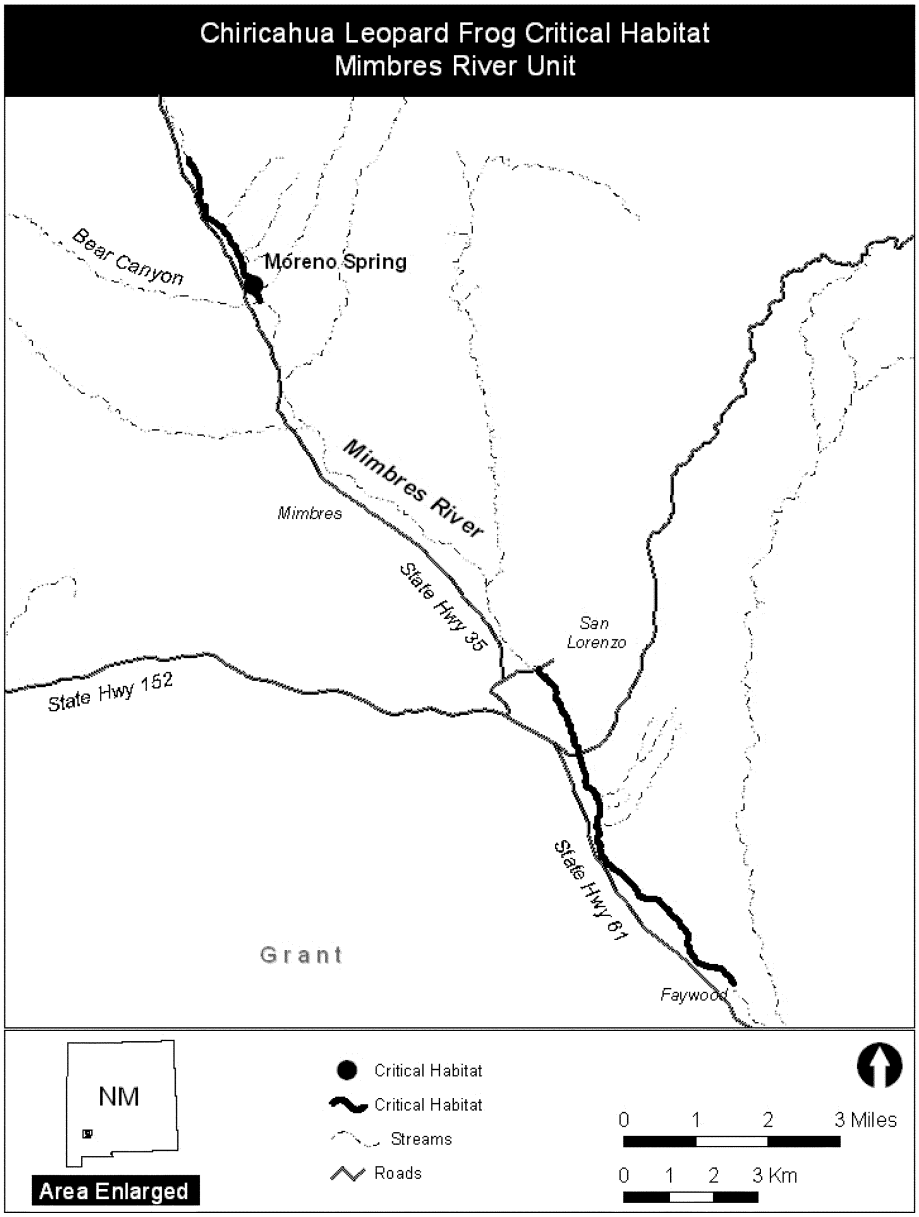


(44) Mimbres River Unit, Grant County, New Mexico.

(i) The Mimbres River from the northern boundary of The Nature Conservancy's Mimbres River Preserve property (32.912474 N, 108.004529 W) downstream to its confluence with Bear Canyon (32.883926 N, 107.988252 W), to include Moreno Spring (32.887107 N, 107.989492 W) and ponds at Milagros Ranch, an approximate river distance of 2.42 miles (3.89 kilometers).

(ii) The Mimbres River from the bridge just west of the town of San Lorenzo (32.808190 N, 107.924589 W) downstream to its intersection with the southern boundary of The Nature Conservancy's Disert property near Faywood (32.743884 N, 107.880297 W), an approximate river distance of 5.82 miles (9.36 kilometers).

(iii) Map of Mimbres River Unit follows:



DUSKY GOPHER FROG (*Rana sevosa*)

(1) Critical habitat units are depicted for St. Tammany Parish, Louisiana, and Forrest, Harrison, Jackson, and Perry Counties in Mississippi, on the maps below.

(2) Within these areas, the primary constituent elements of the physical or biological features essential to the conservation of the dusky gopher frog are:

(i) *Ephemeral wetland habitat.* Breeding ponds, geographically isolated from other waterbodies and embedded in forests historically dominated by longleaf pine communities, that are small (generally <0.4 to 4.0 hectares (<1 to 10 acres)), ephemeral, and acidic. Specific conditions necessary in breeding ponds to allow for successful reproduction of dusky gopher frogs are:

(A) An open canopy with emergent herbaceous vegetation for egg attachment;

(B) An absence of large, predatory fish that prey on frog larvae;

(C) Water quality such that frogs, their eggs, or larvae are not exposed to pesticides or chemicals and sediment associated with road runoff; and

(D) Surface water that lasts for a minimum of 195 days during the breeding season to allow a sufficient period for larvae to hatch, mature, and metamorphose.

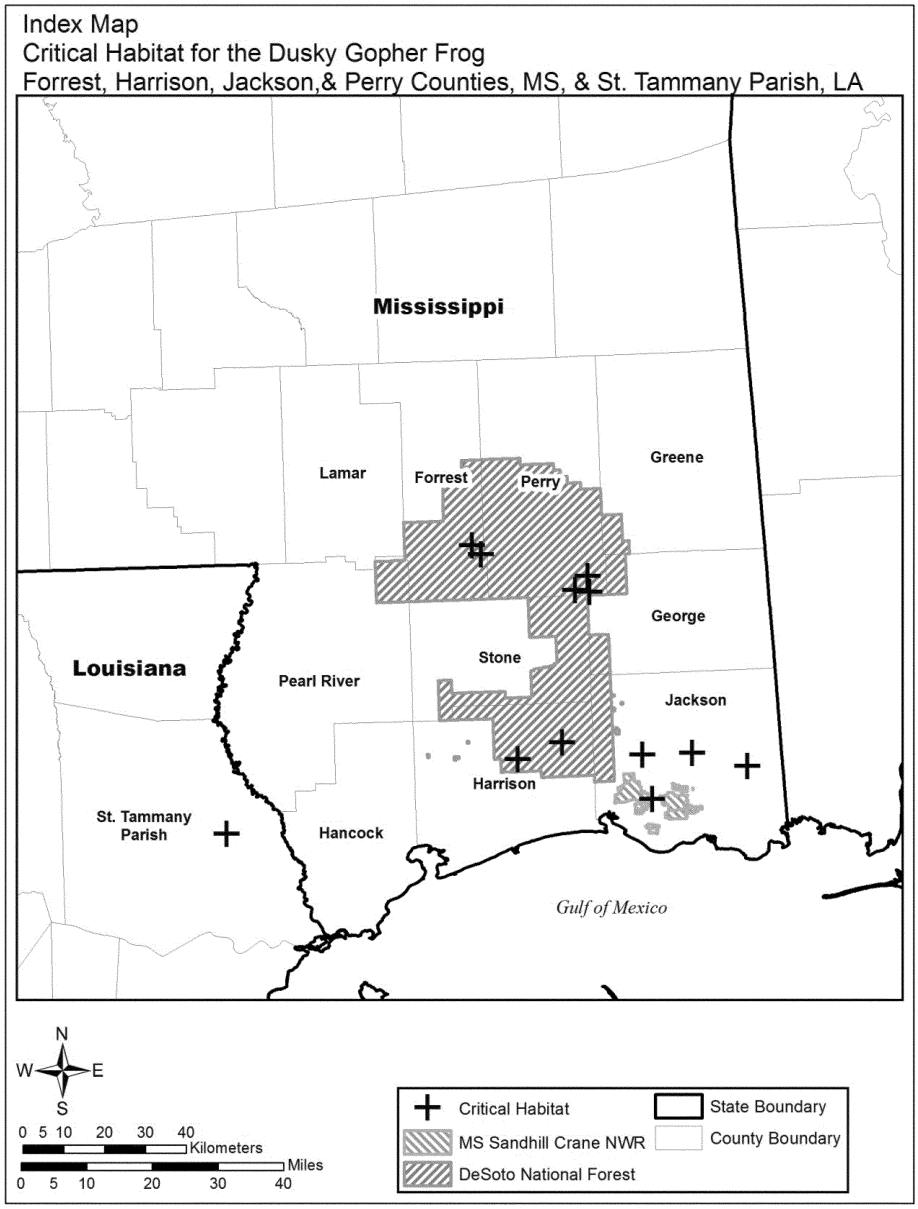
(ii) *Upland forested nonbreeding habitat.* Forests historically dominated by longleaf pine, adjacent to and accessible to and from breeding ponds, that are maintained by fires frequent enough to support an open canopy and abundant herbaceous ground cover and gopher tortoise burrows, small mammal burrows, stump holes, or other underground habitat that the dusky gopher frog depends upon for food, shelter, and protection from the elements and predation.

(iii) *Upland connectivity habitat.* Accessible upland habitat between breeding and nonbreeding habitats to allow for dusky gopher frog movements between and among such sites. This habitat is characterized by an open canopy, abundant native herbaceous species, and a subsurface structure that provides shelter for dusky gopher frogs during seasonal movements, such as that created by deep litter cover, clumps of grass, or burrows.

(3) Critical habitat does not include manmade 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 unit maps.* Data layers defining map units were developed from USGS 7.5' quadrangles, and critical habitat units were then mapped using Universal Transverse Mercator (UTM) coordinates.

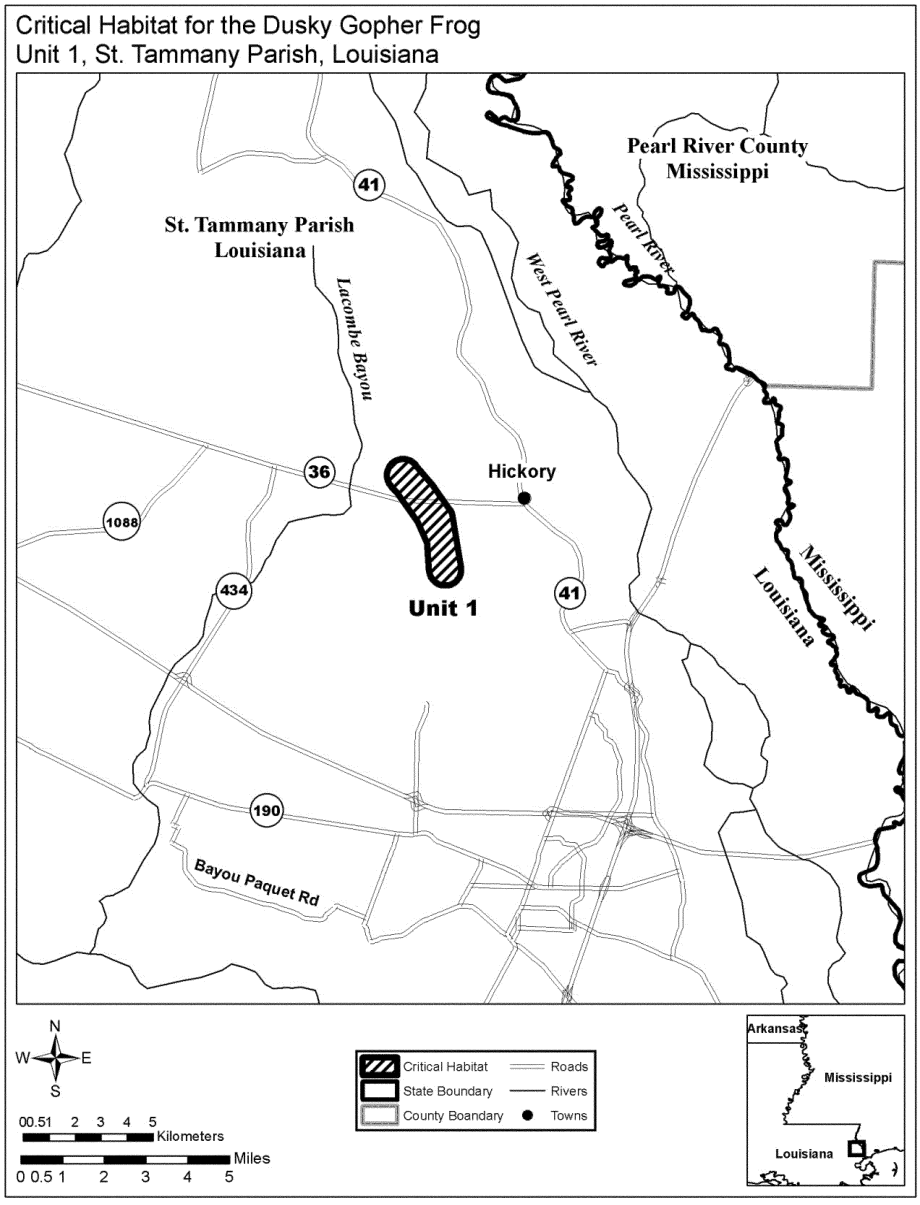
(5) NOTE: Index map of the critical habitat units for the dusky gopher frog follows:



(6) Unit 1: St. Tammany Parish, Louisiana.

(i) [Reserved]

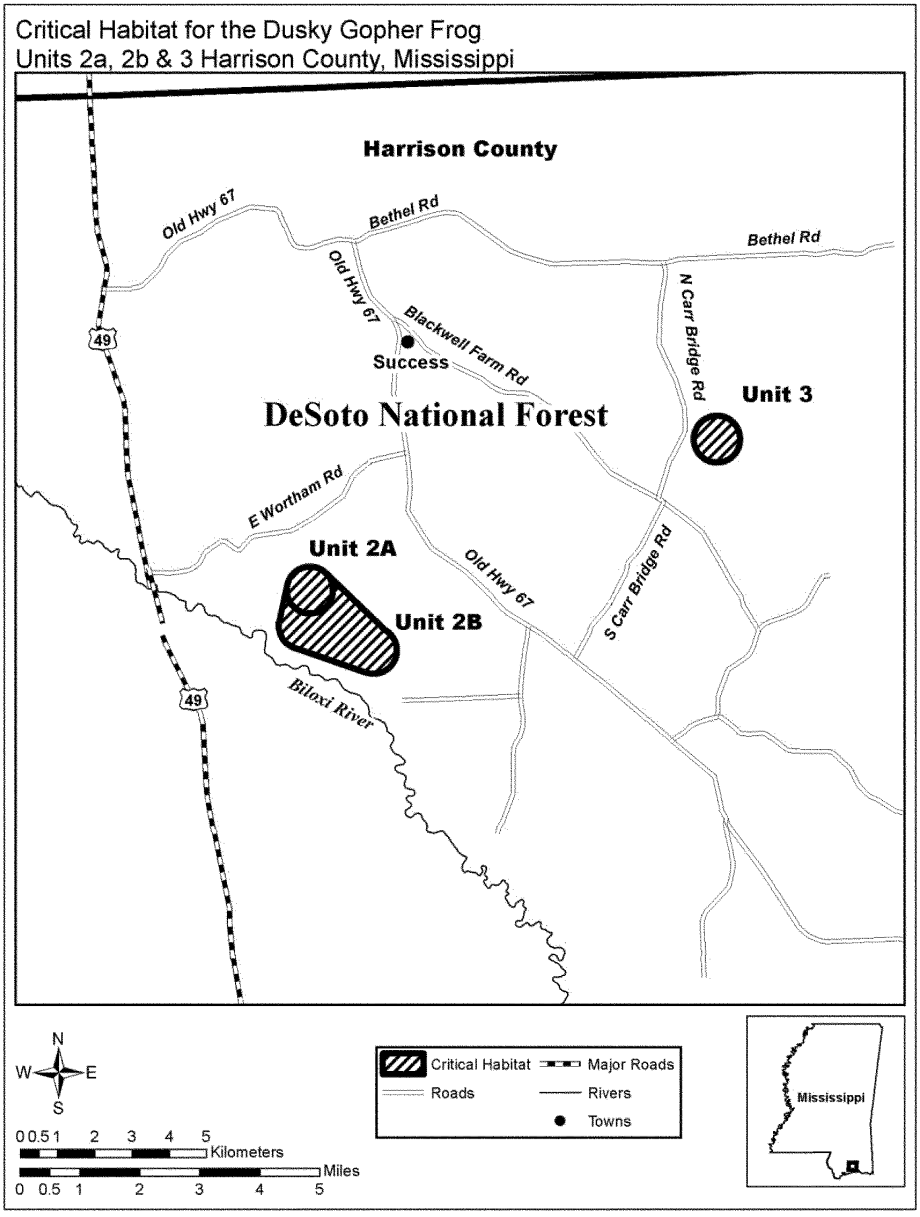
(ii) Map of Unit 1 follows:



(7) Unit 2: Harrison County, Mississippi.

(i) [Reserved]

(ii) Map of Units 2 and 3 follows:



(8) Unit 3: Harrison County, Mississippi.

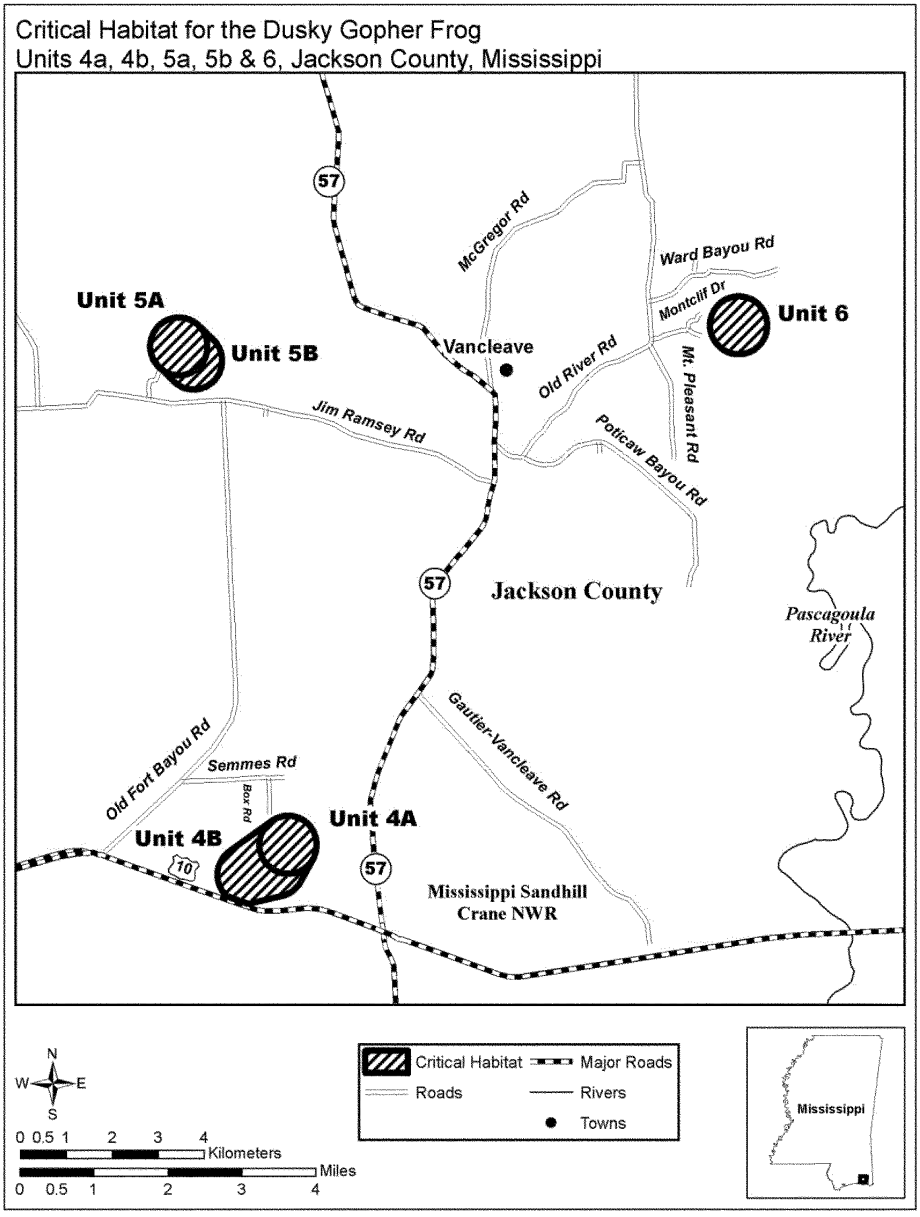
(i) [Reserved]

(ii) Map of Unit 3 is provided at paragraph (7)(iii) of this entry.

(9) Unit 4: Jackson County, Mississippi.

(i) [Reserved]

(ii) Map of Units 4, 5, and 6 follows:



(10) Unit 5: Jackson County, Mississippi.

(i) [Reserved]

(ii) Map of Unit 5 is provided at paragraph (9)(iii) of this entry.

(11) Unit 6: Jackson County, Mississippi.

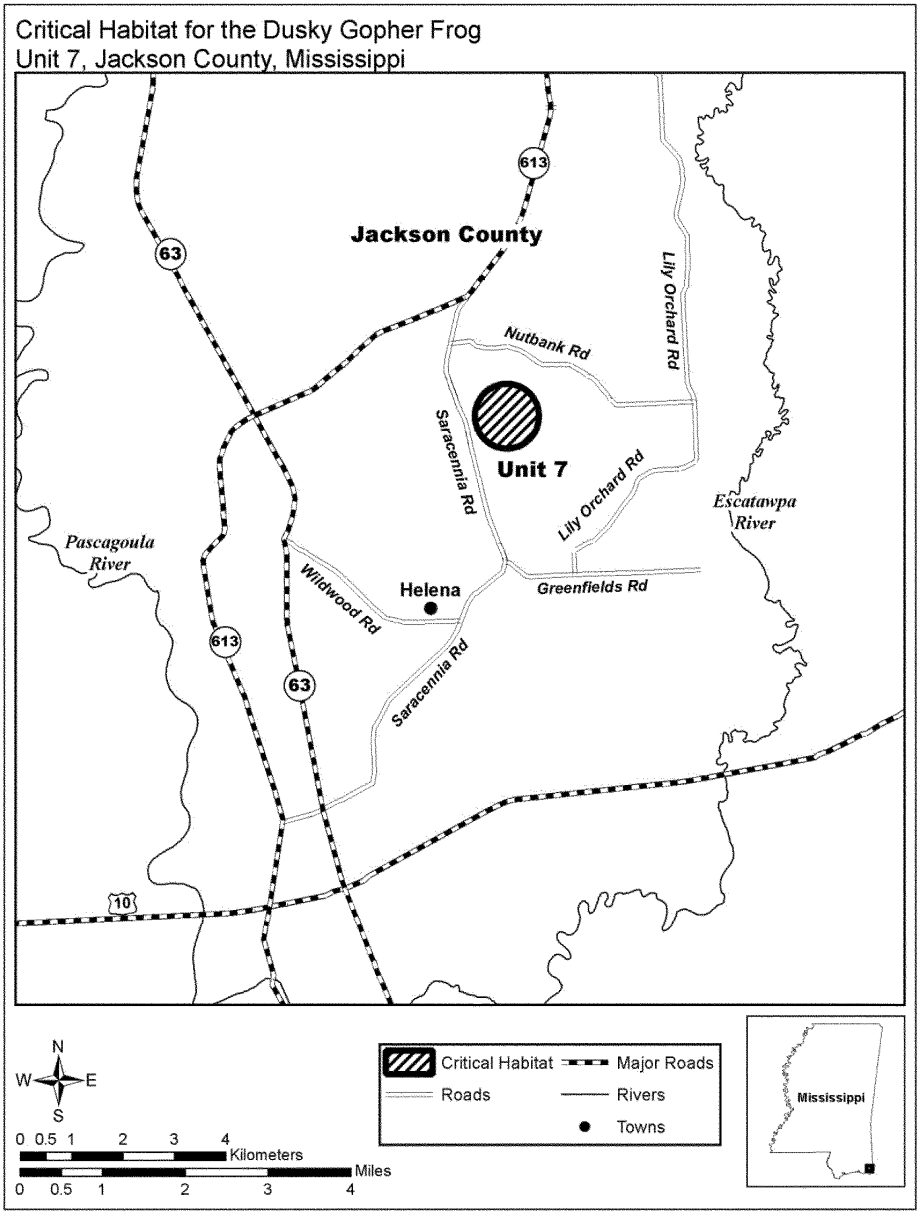
(i) [Reserved]

(ii) Map of Unit 6 is provided at paragraph (9)(iii) of this entry.

(12) Unit 7: Jackson County, Mississippi.

(i) [Reserved]

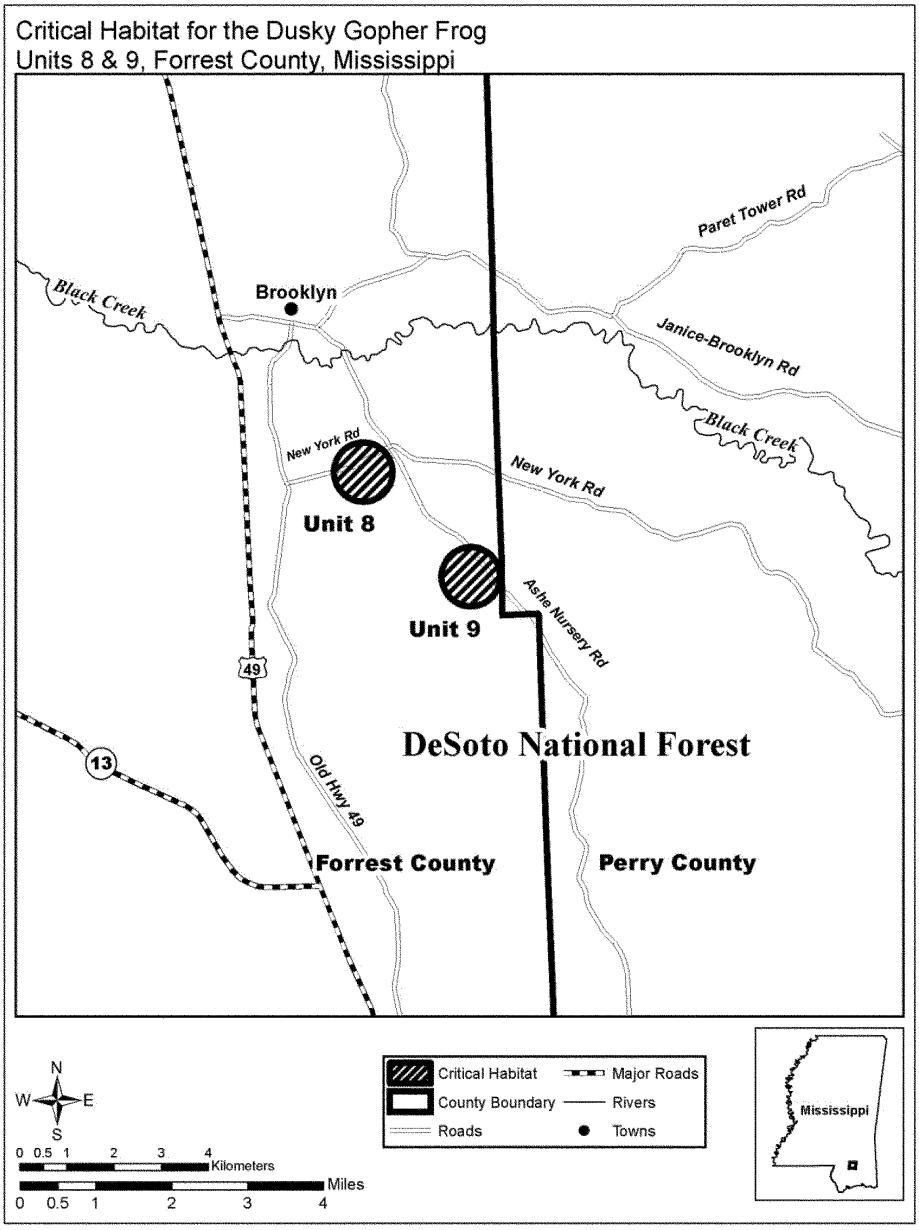
(ii) Map of Unit 7 follows:



(13) Unit 8: Forrest County, Mississippi.

(i) [Reserved]

(ii) Map of Units 8 and 9 follows:



(14) Unit 9: Forrest County, Mississippi.

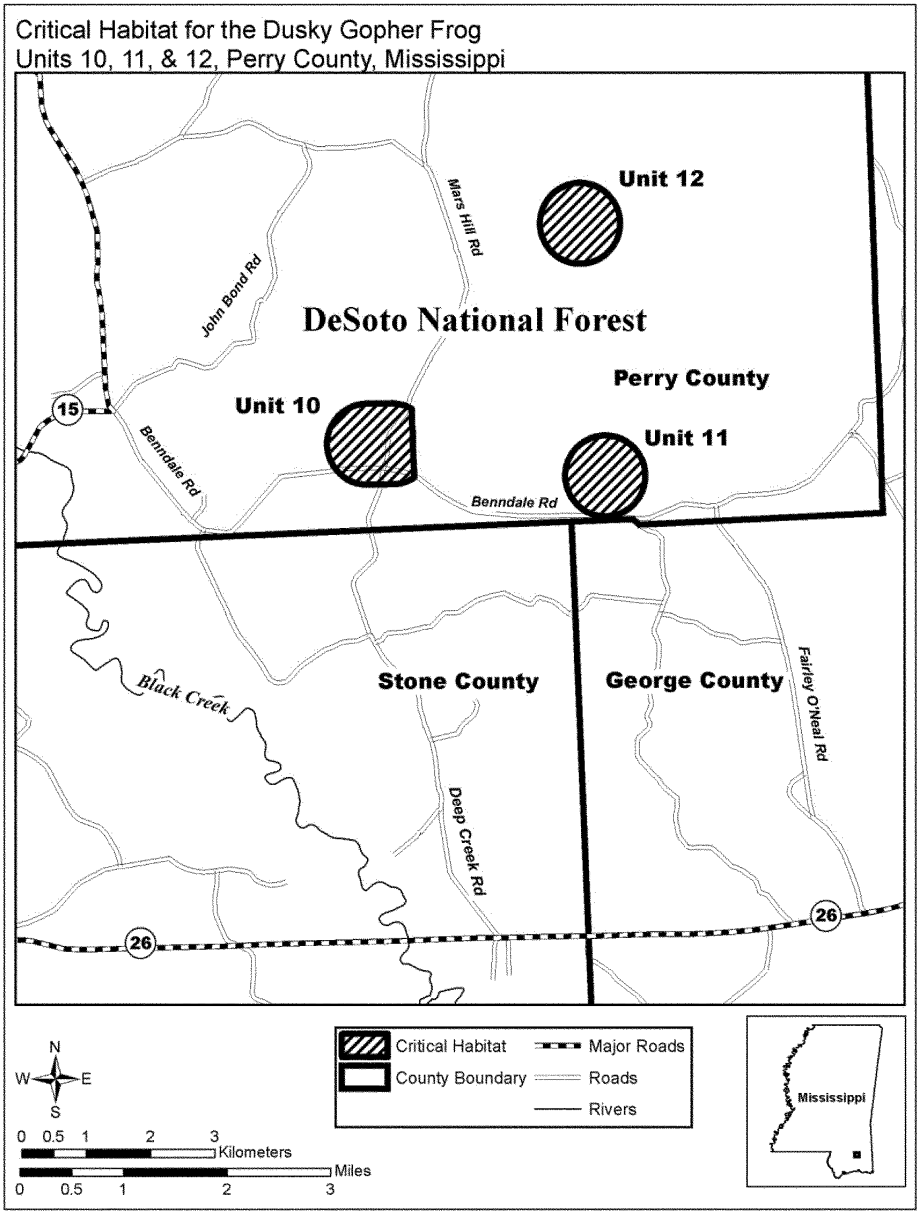
(i) [Reserved]

(ii) Map of Unit 9 is provided at paragraph (13)(ii) of this entry.

(15) Unit 10: Perry County, Mississippi.

(i) [Reserved]

(ii) Map of Units 10, 11, and 12 follows:



(16) Unit 11: Perry County, Mississippi.

(i) [Reserved]

(ii) Map of Unit 11 is provided at paragraph (15)(ii) of this entry.

(17) Unit 12: Perry County, Mississippi.

(i) [Reserved]

(ii) Map of Unit 12 is provided at paragraph (15)(ii) of this entry.

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

(1) Critical habitat units are depicted for Fresno, Inyo and Tulare Counties, California, on the maps in this entry.

(2) Within these areas, the primary constituent elements of the physical or biological features essential to the conservation of the northern DPS of the mountain yellow-legged frog consist of:

(i) *Aquatic habitat for breeding and rearing.* Habitat that consists of permanent water bodies, or those that are either hydrologically connected with, or close to, permanent water bodies, including, but not limited to, lakes, streams, rivers, tarns, perennial creeks (or permanent plunge pools within intermittent creeks), pools (such as a body of impounded water contained above a natural dam), and other forms of aquatic habitat. This habitat must:

(A) For lakes, be of sufficient depth not to freeze solid (to the bottom) during the winter (no less than 1.7 meters (m) (5.6 feet (ft)), but generally greater than 2.5 m (8.2 ft), and optimally 5 m (16.4 ft) or deeper (unless some other refuge from freezing is available)).

(B) Maintain a natural flow pattern, including periodic flooding, and have functional community dynamics in order to provide sufficient productivity and a prey base to support the growth and development of rearing tadpoles and metamorphs.

(C) Be free of introduced predators.

(D) Maintain water during the entire tadpole growth phase (a minimum of 2 years). During periods of drought, these breeding sites may not hold water long enough for individuals to complete metamorphosis, but they may still be considered essential breeding habitat if they provide sufficient habitat in most years to foster recruitment within the reproductive lifespan of individual adult frogs.

(E) Contain:

(*1*) Bank and pool substrates consisting of varying percentages of soil or silt, sand, gravel, cobble, rock, and boulders (for basking and cover);

(*2*) Shallower microhabitat with solar exposure to warm lake areas and to foster primary productivity of the food web;

(*3*) Open gravel banks and rocks or other structures projecting above or just beneath the surface of the water for adult sunning posts;

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

(*5*) Sufficient food resources to provide for tadpole growth and development.

(ii) *Aquatic nonbreeding habitat (including overwintering habitat).* This habitat may contain the same characteristics as aquatic breeding and rearing habitat (often at the same locale), and may include lakes, ponds, tarns, streams, rivers, creeks, plunge pools within intermittent creeks, seeps, and springs that may not hold water long enough for the species to complete its aquatic life cycle. This habitat provides for shelter, foraging, predator avoidance, and aquatic dispersal of juvenile and adult mountain yellow-legged frogs. Aquatic nonbreeding habitat contains:

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

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

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

(D) Sufficient food resources to support juvenile and adult foraging;

(E) Overwintering refugia, where thermal properties of the microhabitat protect hibernating life stages from winter freezing, such as crevices or holes within bedrock, in and near shore; and/or

(F) Streams, stream reaches, or wet meadow habitats that can function as corridors for movement between aquatic habitats used as breeding or foraging sites.

(iii) *Upland areas.*

(A) Upland areas adjacent to or surrounding breeding and nonbreeding aquatic habitat that provide area for feeding and movement by mountain yellow-legged frogs.

(*1*) For stream habitats, this area extends 25 m (82 ft) from the bank or shoreline.

(*2*) In areas that contain riparian habitat and upland vegetation (for example, mixed conifer, ponderosa pine, montane conifer, and montane riparian woodlands), the canopy overstory should be sufficiently thin (generally not to exceed 85 percent) to allow sunlight to reach the aquatic habitat and thereby provide basking areas for the species.

(*3*) For areas between proximate (within 300 m (984 ft)) water bodies (typical of some high mountain lake habitats), the upland area extends from the bank or shoreline between such water bodies.

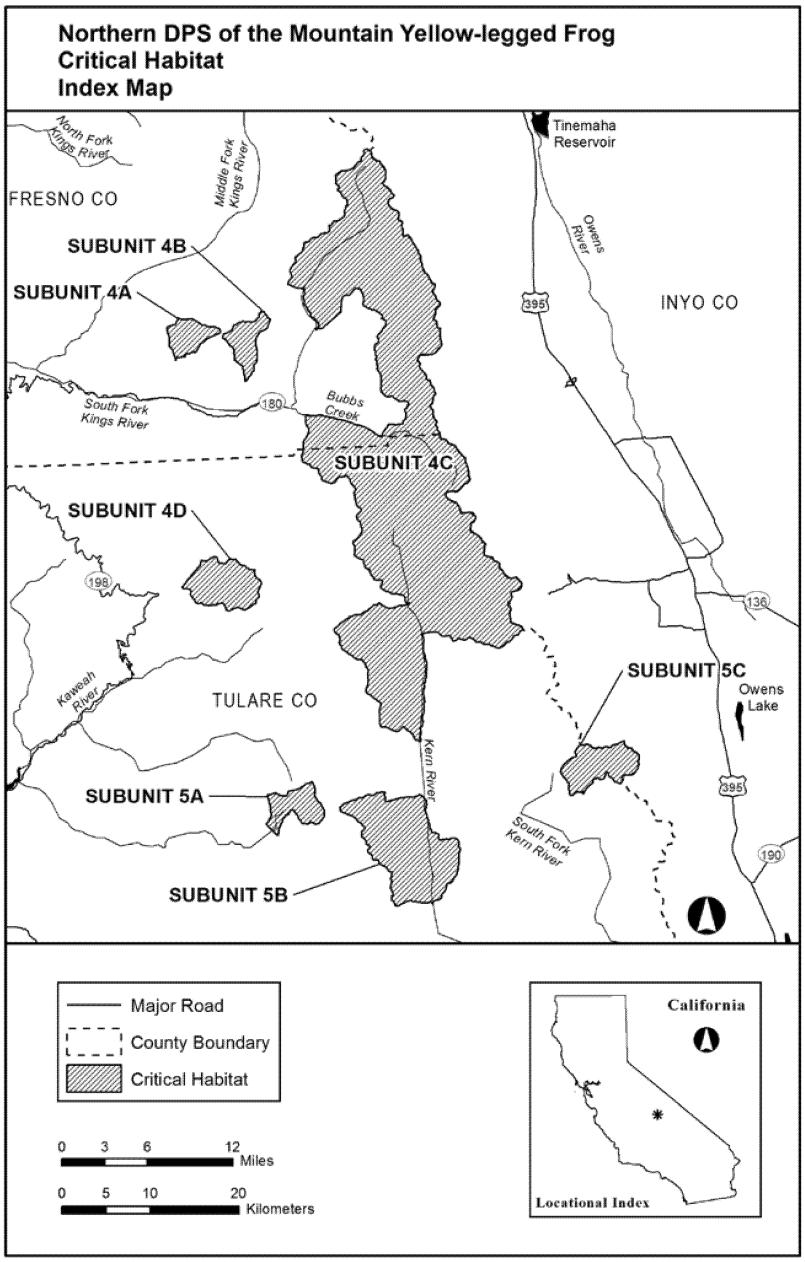
(*4*) Within mesic habitats such as lake and meadow systems, the entire area of physically contiguous or proximate habitat is suitable for dispersal and foraging.

(B) Upland areas (catchments) adjacent to and surrounding both breeding and nonbreeding aquatic habitat that provide for the natural hydrologic regime (water quantity) of aquatic habitats. These upland areas should also allow for the maintenance of sufficient water quality to provide for the various life stages of the frog and its prey base.

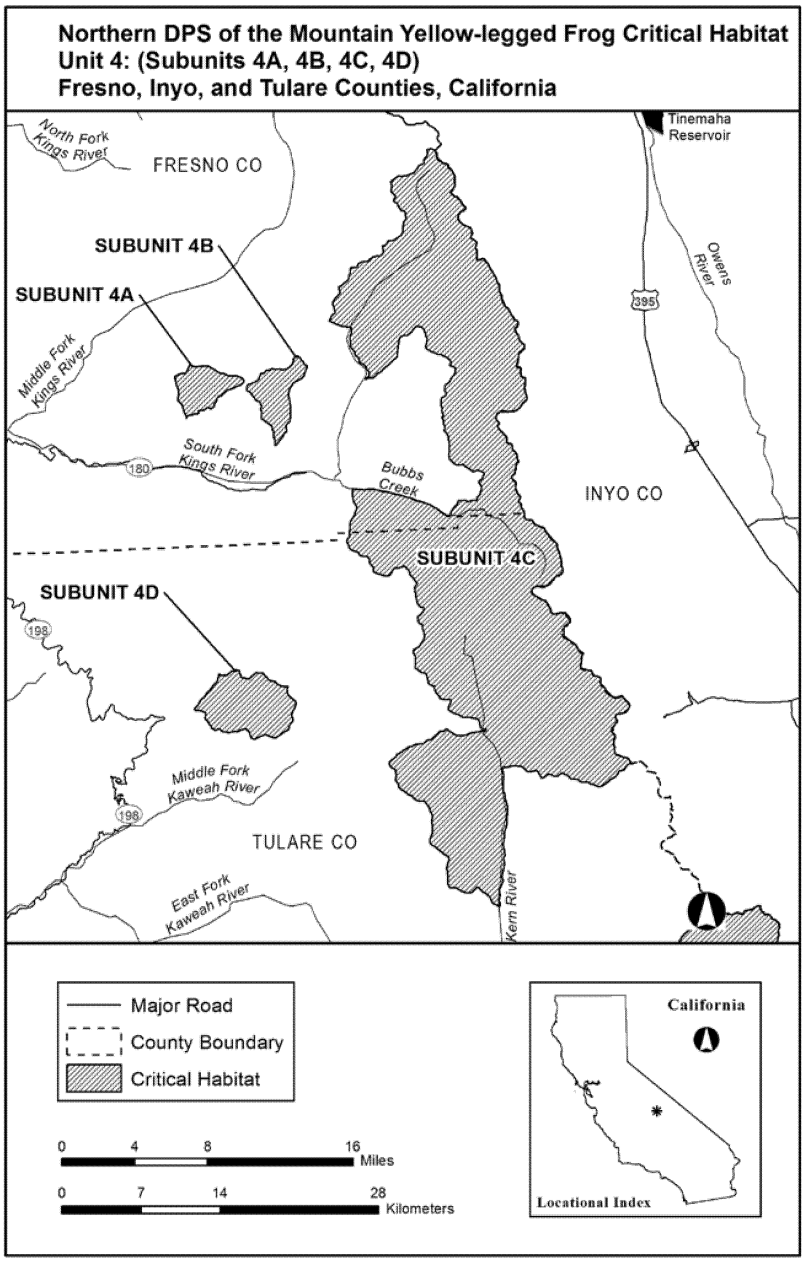
(3) Critical habitat does not include manmade structures (such as buildings, aqueducts, runways, roads, and other paved areas) and the land on which they are located existing within the legal boundaries of designated critical habitat on September 26, 2016.

(4) *Critical habitat map units.* The critical habitat subunit maps were originally created using ESRI's ArcGIS Desktop 10.2.1 software and then exported as .emf files. All maps are in the North American Datum of 1983 (NAD83), Universal Transverse Mercator (UTM) Zone 10N. The California County Boundaries dataset (Teale Data Center), and the USA Minor Highways, USA Major Roads, and USA Rivers and Streams layers (ESRI's 2010 StreetMap Data) were incorporated as base layers to assist in the geographic location of the critical habitat subunits. The coordinates or plot points or both on which each map is based are available to the public on *http://regulations.gov* at Docket No. FWS–R8–ES–2012–0074, on our Internet site (*http://www.fws.gov/sacramento*), and at the Sacramento Fish and Wildlife Office, 2800 Cottage Way Room W–2605, Sacramento, CA 95825.

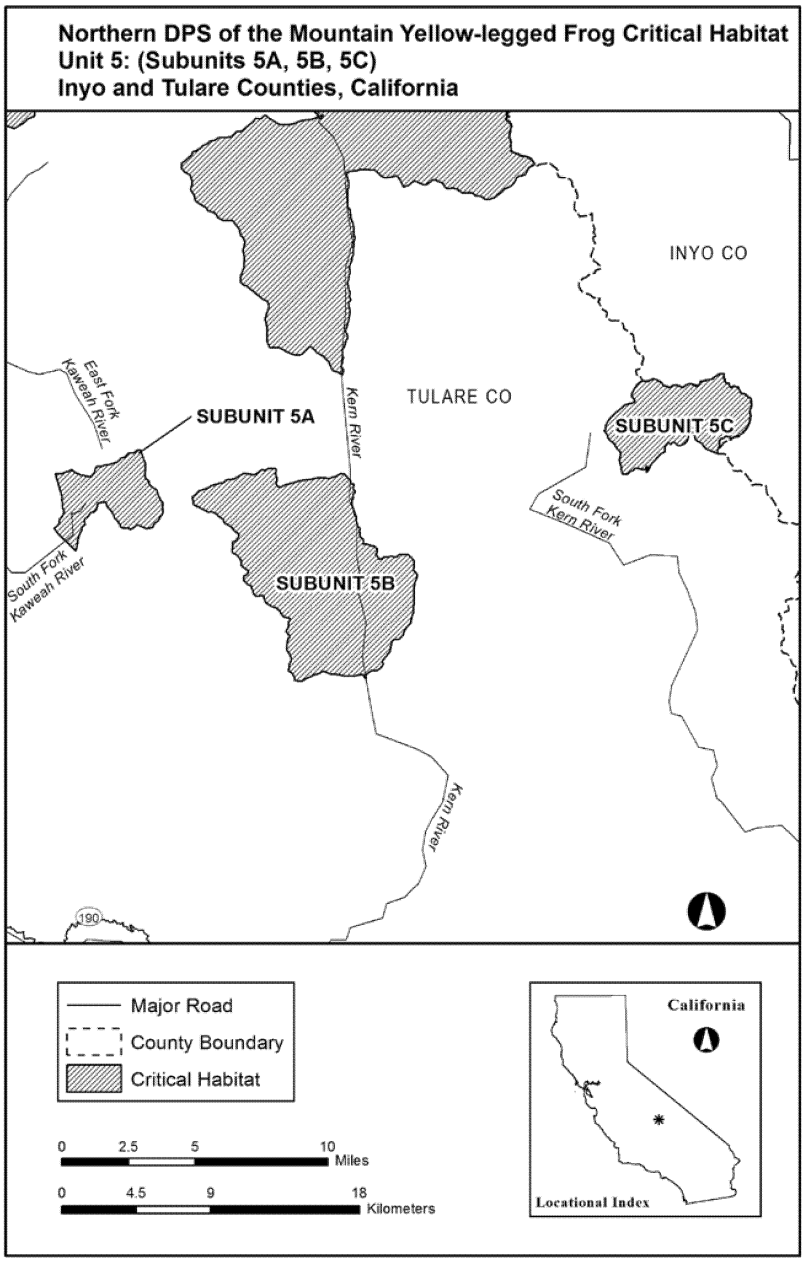
(5) Index map for northern DPS of the mountain yellow-legged frog critical habitat follows:



(6) Unit 4 (Subunits 4A, 4B, 4C, 4D), Fresno, Inyo, and Tulare Counties, California. Map follows:



(7) Unit 5 (Subunits 5A, 5B, 5C), Tulare and Inyo Counties, California. Map follows:


Northern DPS of the Mountain Yellow-legged Frog Critical Habitat
Unit 5: (Subunits 5A, 5B, 5C)
Inyo and Tulare Counties, California
INYO CO
TULARE CO
SUBUNIT 5A
SUBUNIT 5B
SUBUNIT 5C
East Fork Kaweah River
South Fork Kaweah River
Kern River
South Fork Kern River
Kern River
190
Major Road
County Boundary
Critical Habitat
0 2.5 5 10 Miles
0 4.5 9 18 Kilometers
California
Locational Index

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;

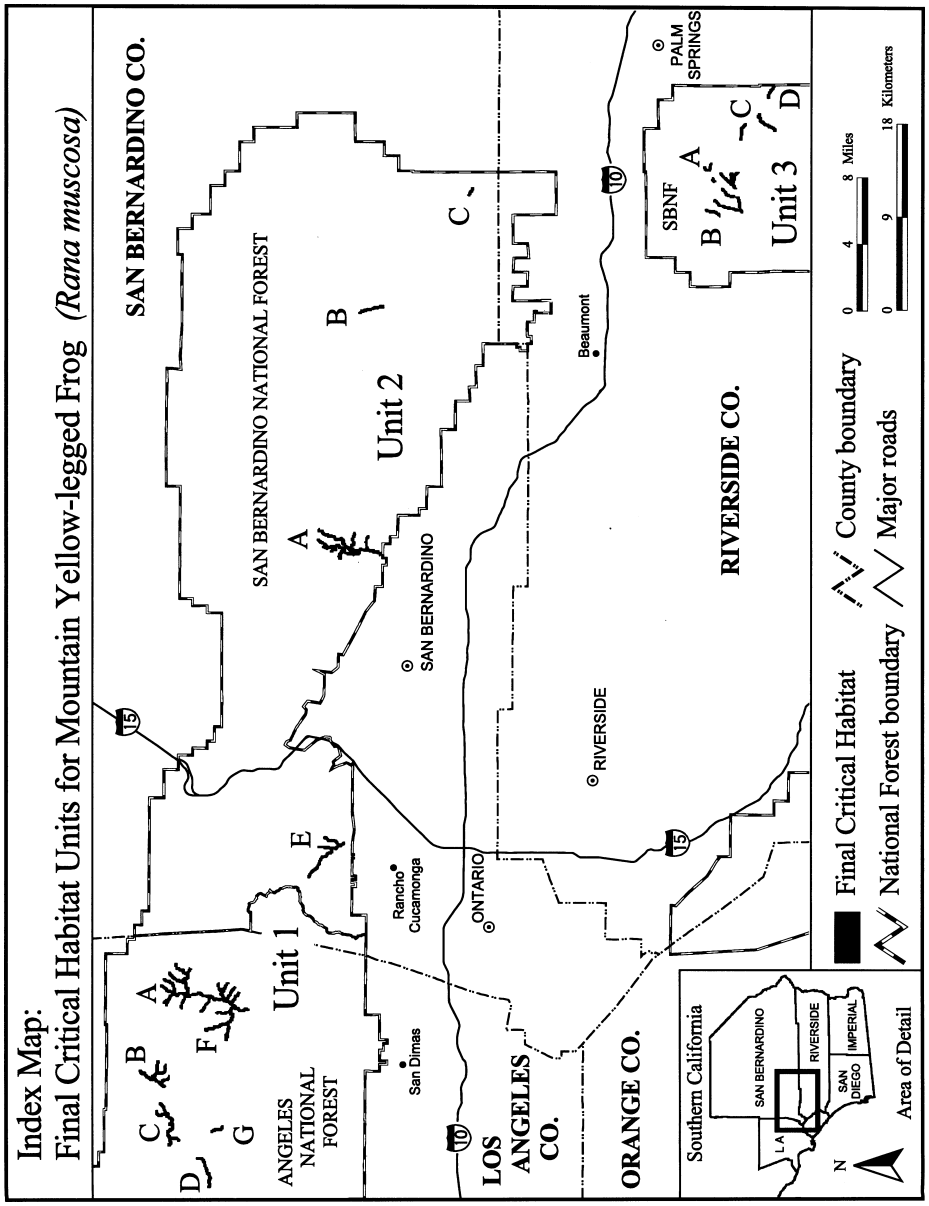
(C) Aquatic refugia, including pools with bank overhangs, downfall logs or branches, and/or rocks to provide cover from predators; and

(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) [Reserved]

(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) [Reserved]

(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) [Reserved]

(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) [Reserved]

(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.

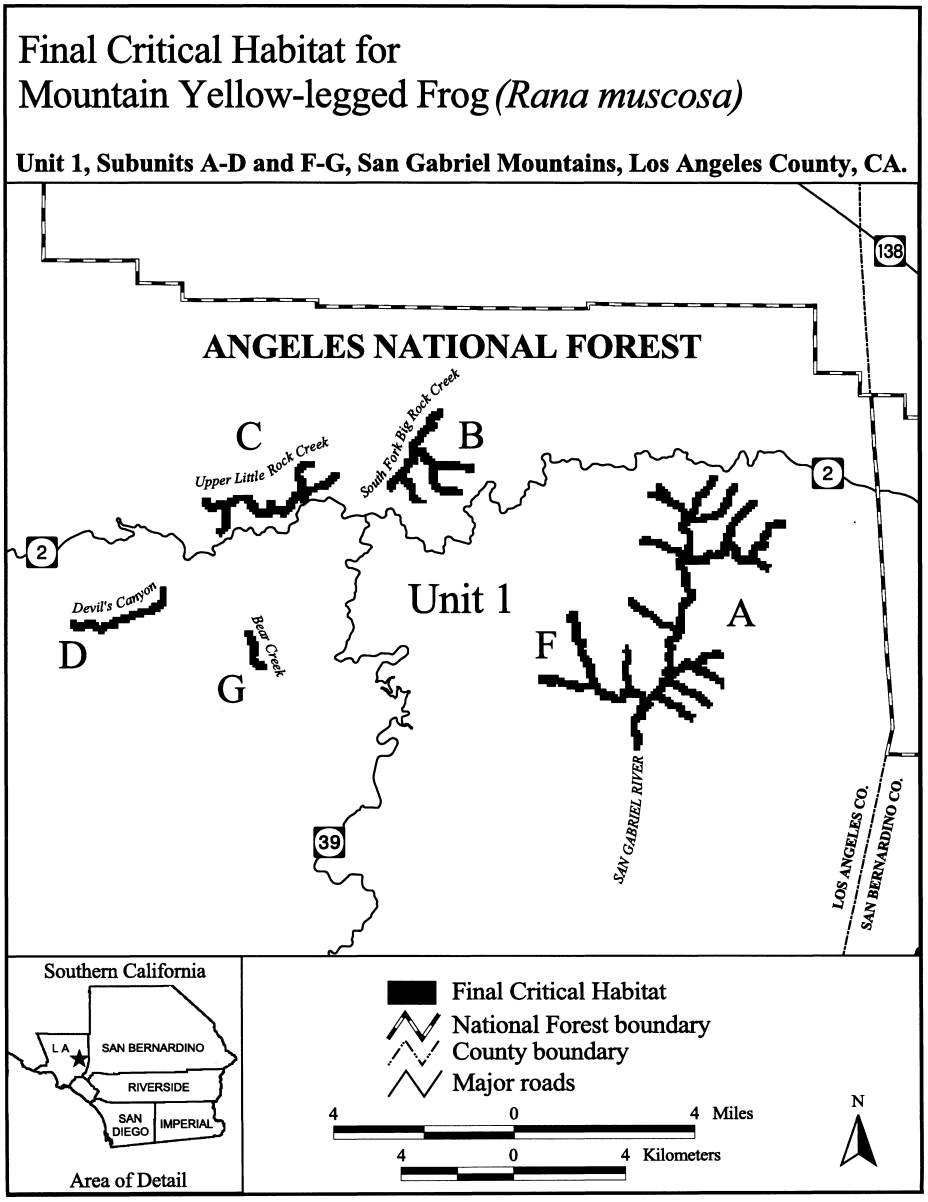
(A) [Reserved]

(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) [Reserved]

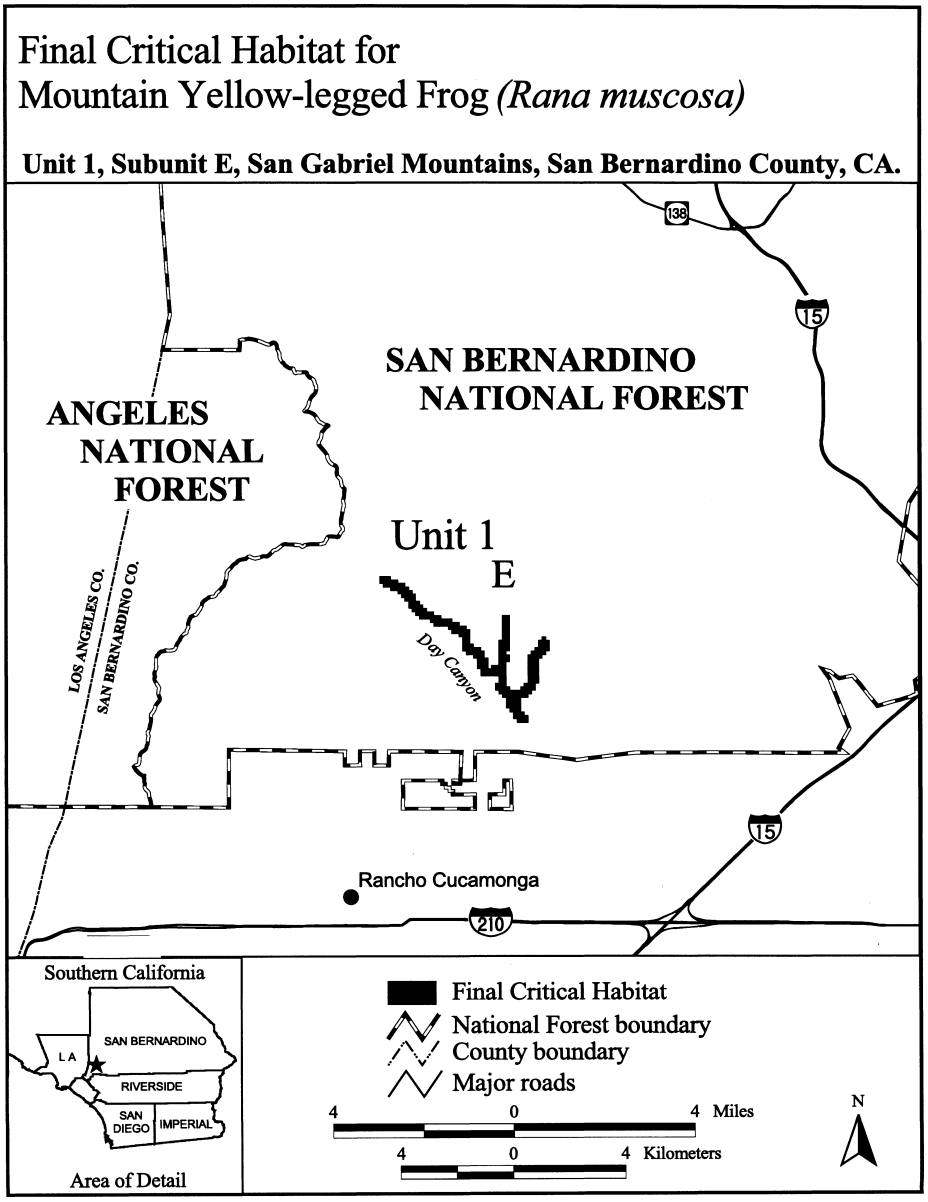
(B) Map of Unit 1, with subunits 1A, 1B, 1C, 1D, 1F, and 1G (Map 2), follows:



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

(A) [Reserved]

(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.

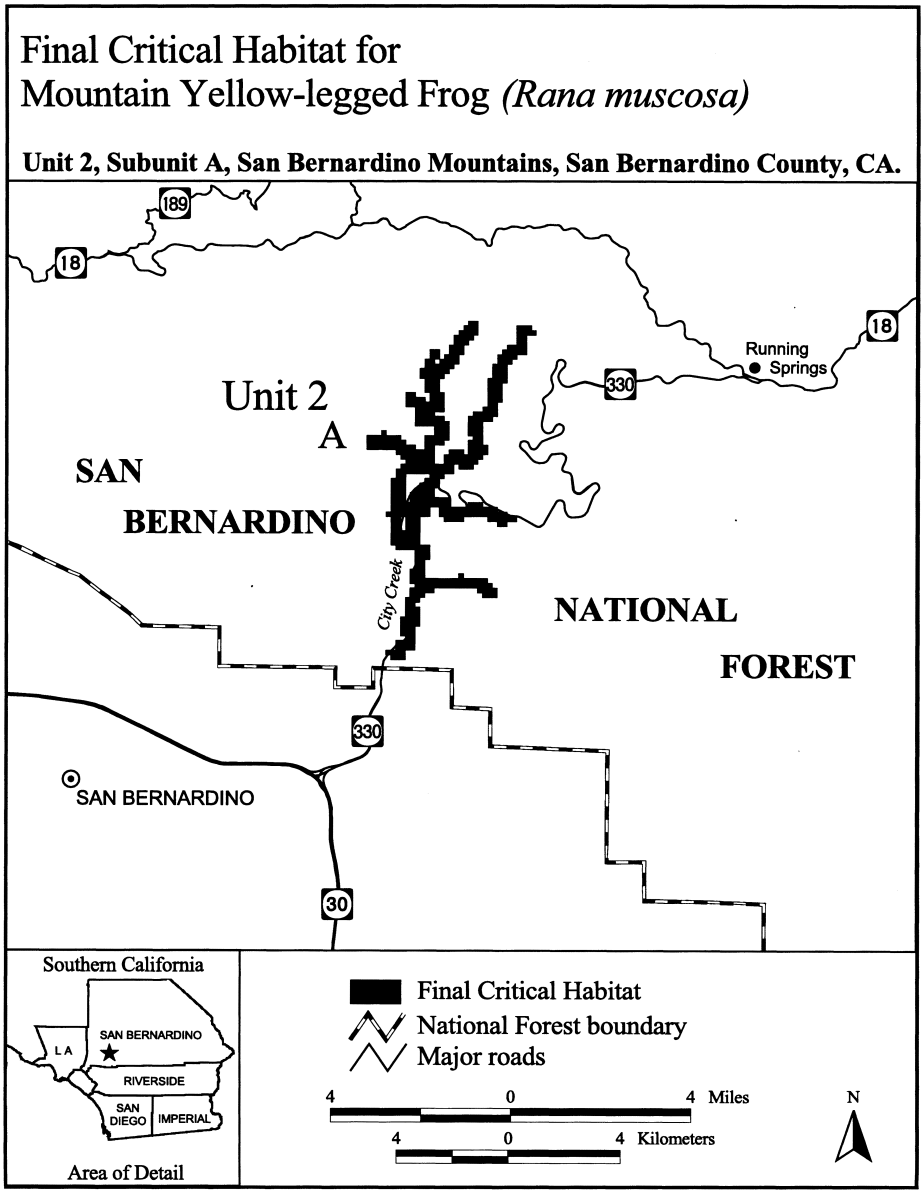
(A) Subunit 2A excludes land bounded by the following UTM NAD27 coordinates (E, N):

(*1*) 483700, 3785100; 483800, 3785100; 483800, 3785000; 483700, 3785000; 483700, 3785100.

(*2*) 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.

(*3*) 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.

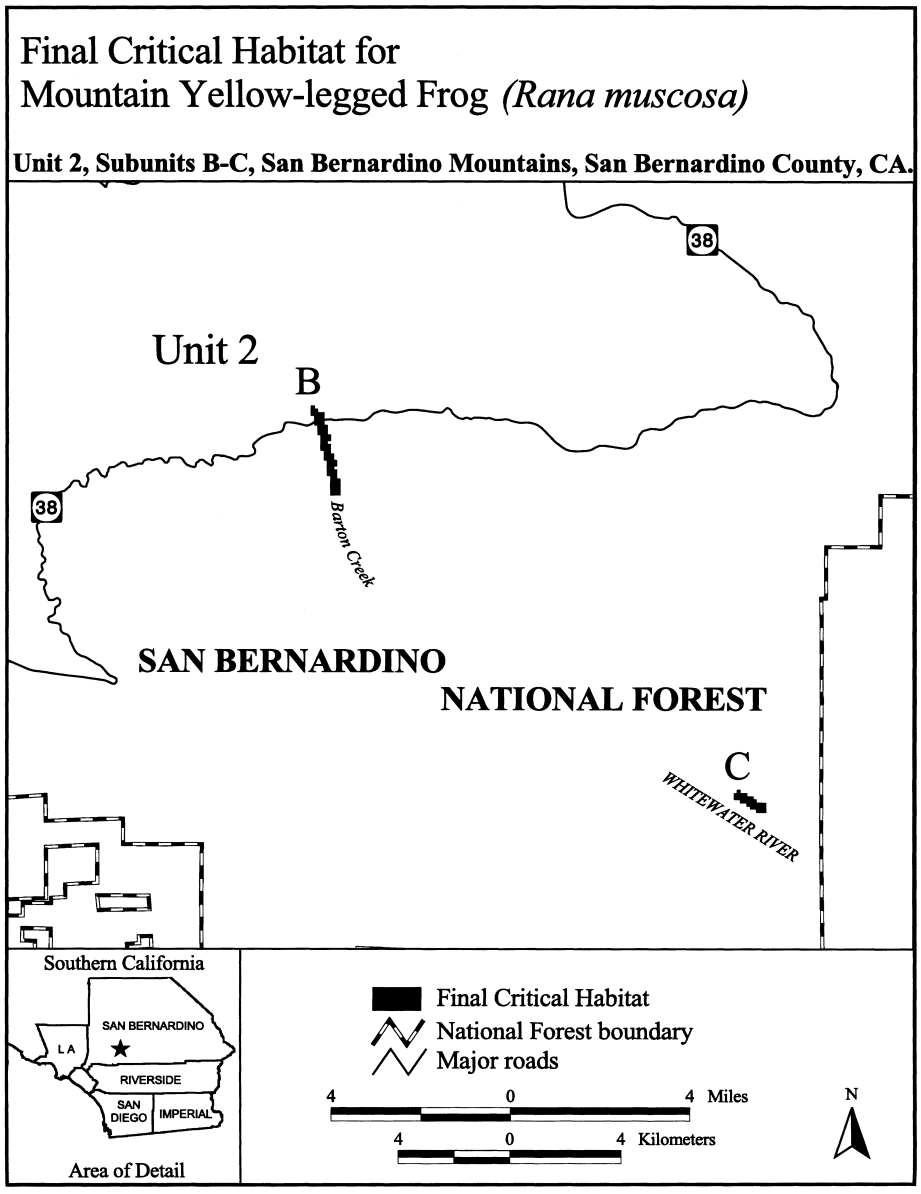
(A) [Reserved]

(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) [Reserved]

(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) [Reserved]

(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) [Reserved]

(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.

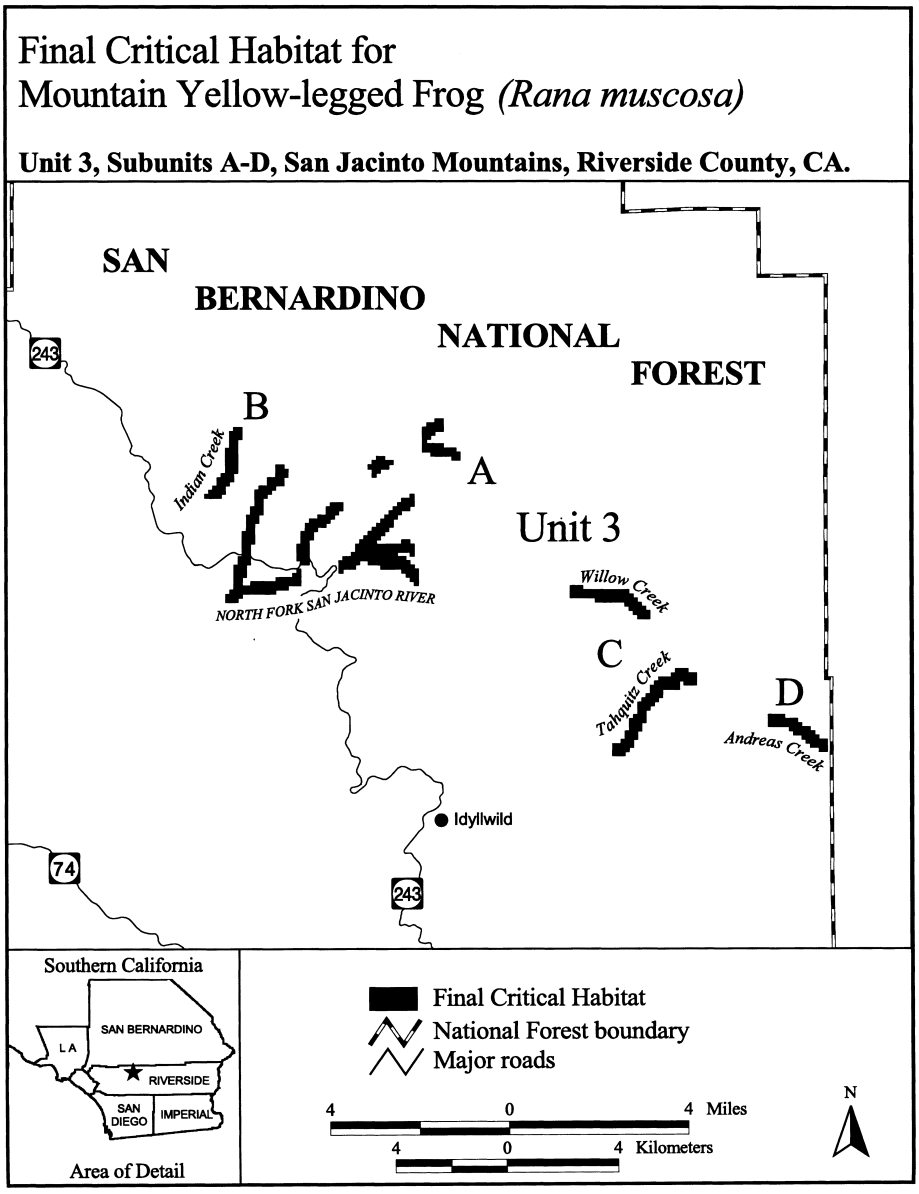
(A) [Reserved]

(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) [Reserved]

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



OREGON SPOTTED FROG (RANA PRETIOSA)

(1) Critical habitat units are depicted for Klickitat, Skagit, Skamania, Thurston, and Whatcom Counties in Washington and Deschutes, Jackson, Klamath, Lane, and Wasco Counties in Oregon, on the maps below.

(2) Within these areas, the PCEs of the physical or biological features essential to the conservation of the Oregon spotted frog consist of three components:

(i) *Primary constituent element 1.*—Non-breeding (N), Breeding (B), Rearing (R), and Overwintering (O) Habitat. Ephemeral or

permanent bodies of fresh water, including, but not limited to, natural or manmade ponds, springs, lakes, slow-moving streams, or pools within or oxbows adjacent to streams, canals, and ditches, that have one or more of the following characteristics:

(A) Inundated for a minimum of 4 months per year (B, R) (timing varies by elevation but may begin as early as February and last as long as September);

(B) Inundated from October through March (O);

(C) If ephemeral, areas are hydrologically connected by surface water flow to a permanent water body (e.g., pools, springs, ponds, lakes, streams, canals, or ditches) (B, R);

(D) Shallow-water areas (less than or equal to 12 inches (30 centimeters), or water of this depth over vegetation in deeper water (B, R);

(E) Total surface area with less than 50 percent vegetative cover (N);

(F) Gradual topographic gradient (less than 3 percent slope) from shallow water toward deeper, permanent water (B, R);

(G) Herbaceous wetland vegetation (*i.e.*, emergent, submergent, and floating-leaved aquatic plants), or vegetation that can structurally mimic emergent wetland vegetation through manipulation (B, R);

(H) Shallow-water areas with high solar exposure or low (short) canopy cover (B, R); and

(I) An absence or low density of nonnative predators (B, R, N).

(ii) *Primary constituent element 2.*—Aquatic movement corridors. Ephemeral or permanent bodies of fresh water that have one or more of the following characteristics:

(A) Less than or equal to 3.1 miles (5 kilometers) linear distance from breeding areas; and

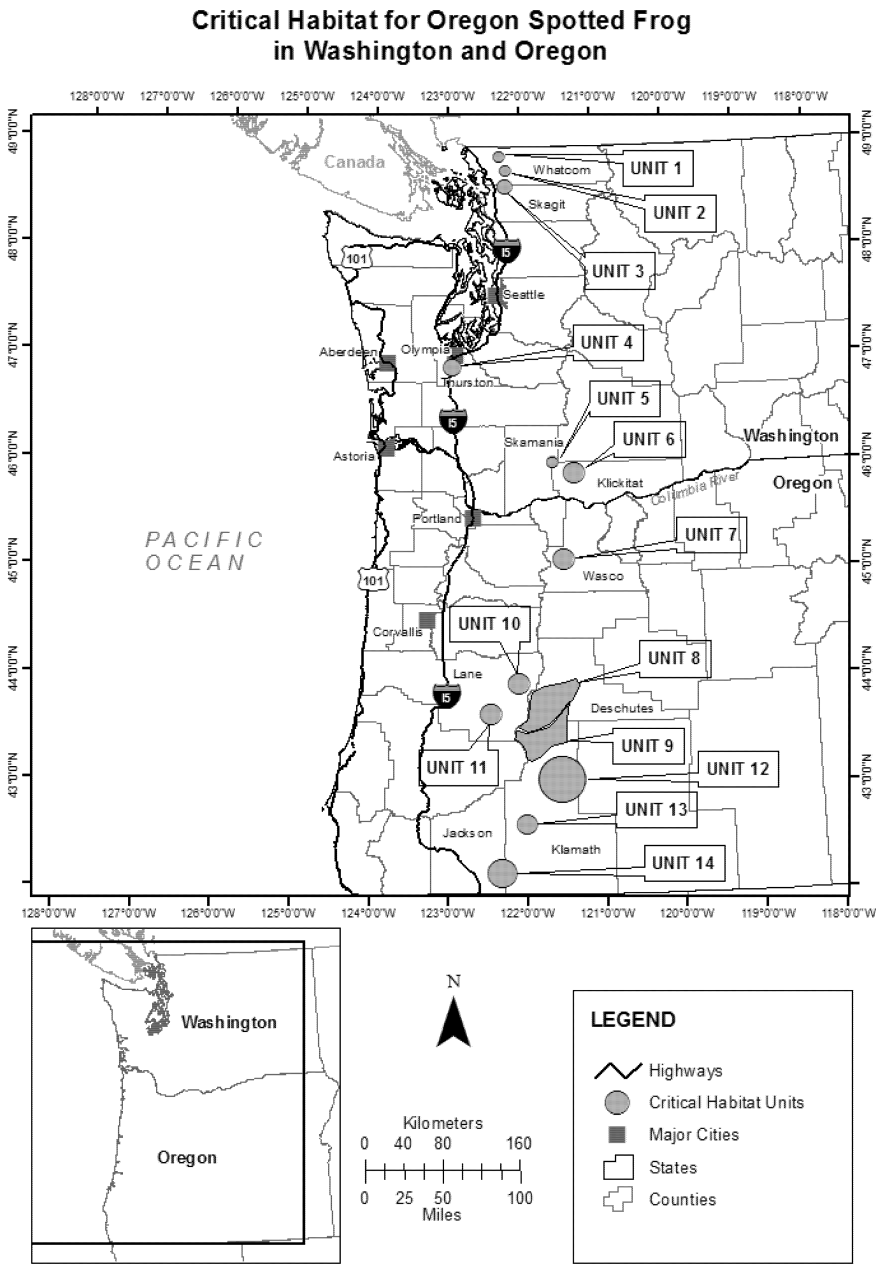
(B) Impediment free (including, but not limited to, hard barriers such as dams, impassable culverts, lack of water, or biological barriers such as abundant predators, or lack of refugia from predators).

(iii) *Primary constituent element 3.*—Refugia habitat. Nonbreeding, breeding, rearing, or overwintering habitat or aquatic movement corridors with habitat characteristics (e.g., dense vegetation and/or an abundance of woody debris) that provide refugia from predators (e.g., nonnative fish or bullfrogs).

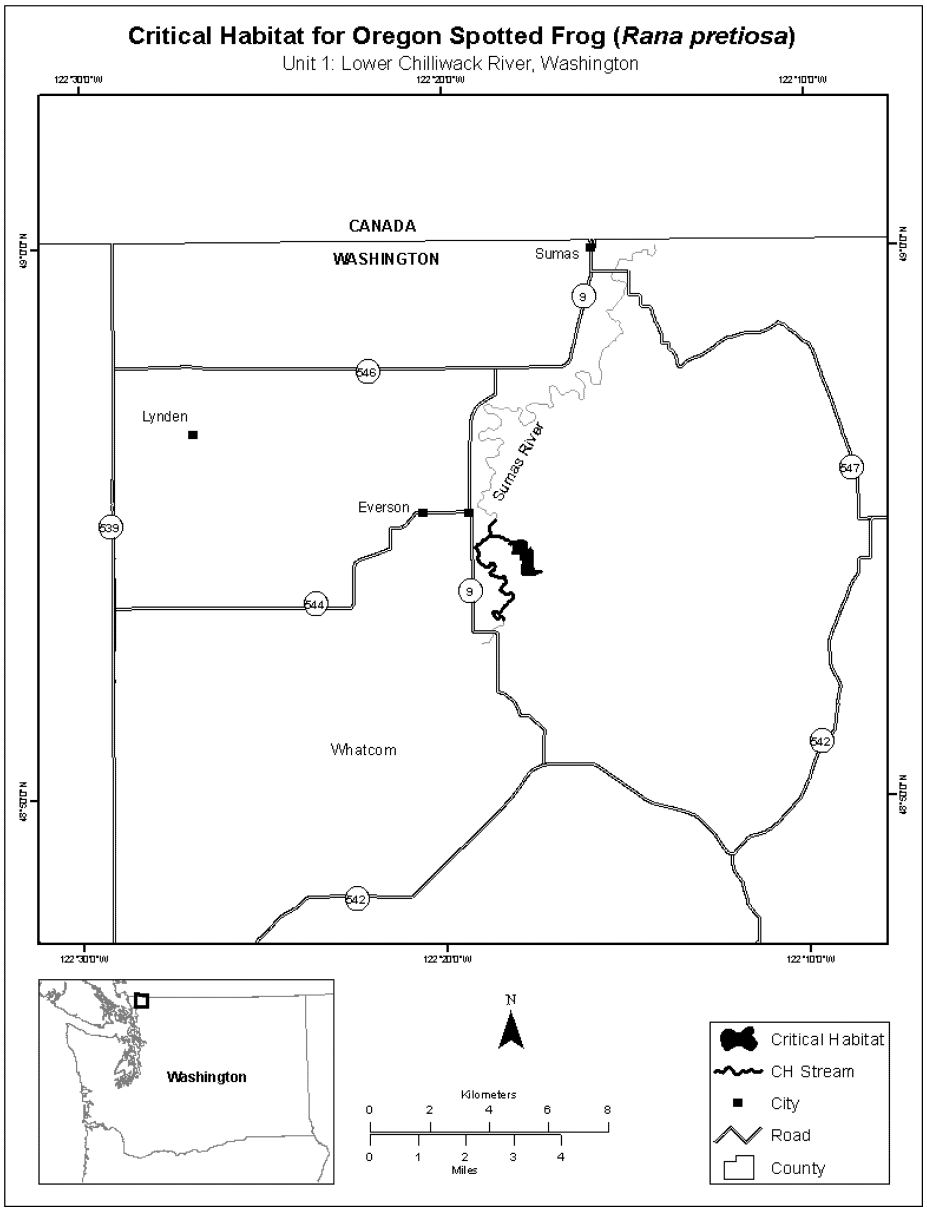
(3) Critical habitat does not include manmade structures (such as buildings, aqueducts, runways, roads, and other paved areas) and the land on which they are located existing within the legal boundaries on June 10, 2016.

(4) *Critical habitat map units.* Data layers defining map units were created from 2010–2013 aerial photography from USDA National Agriculture Imagery Program base maps using ArcMap (Environmental Systems Research Institute, Inc.), a computer geographic information system program. The maps in this entry, as modified by any accompanying regulatory text, establish the boundaries of the critical habitat designation. The coordinates or plot points or both on which each map is based are available to the public at the Service's internet site, (*http://www.fws.gov/wafwo*), *http://www.regulations.gov* at Docket No. FWS–R1–ES–2013–0088, and at the field office responsible for this designation. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2.

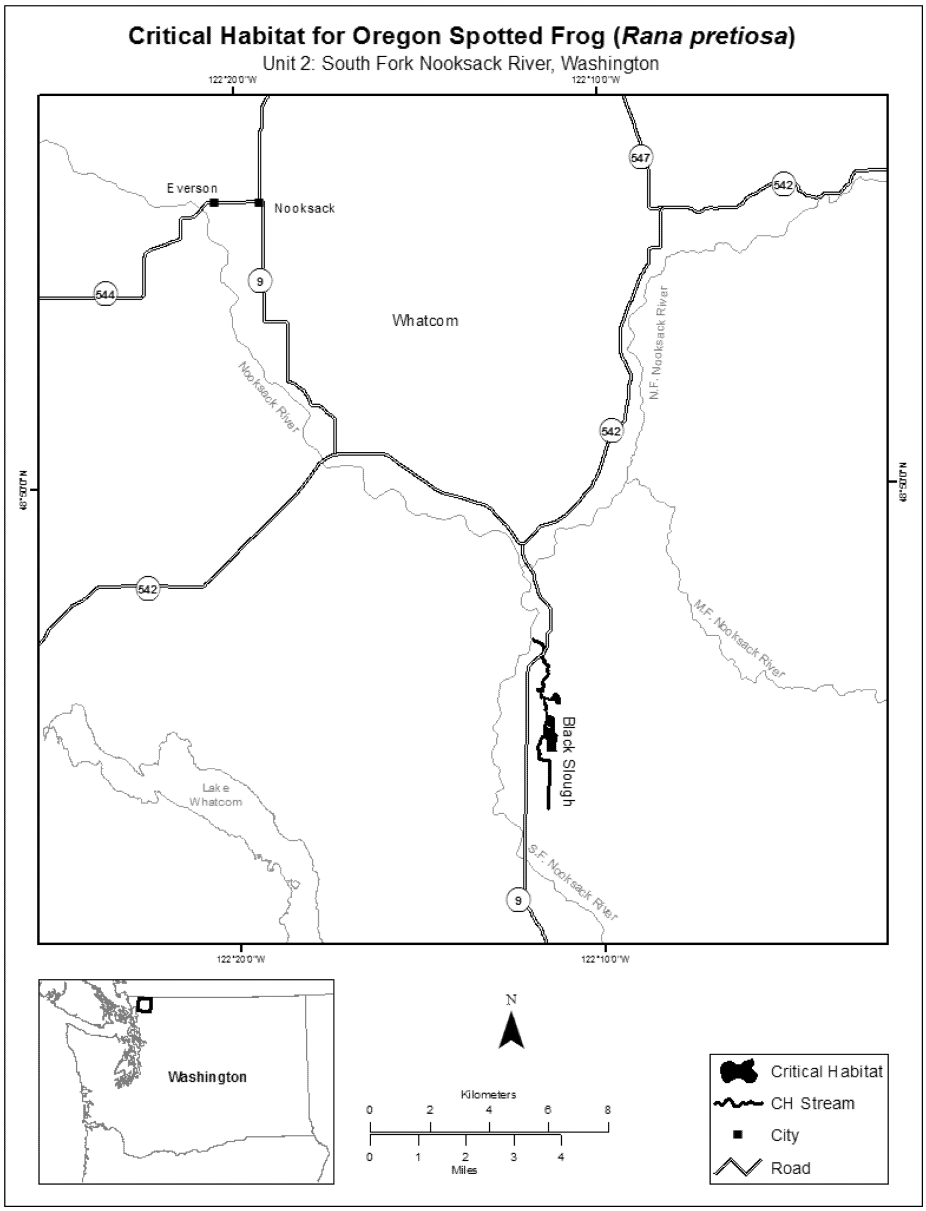
(5) NOTE: Index map follows:



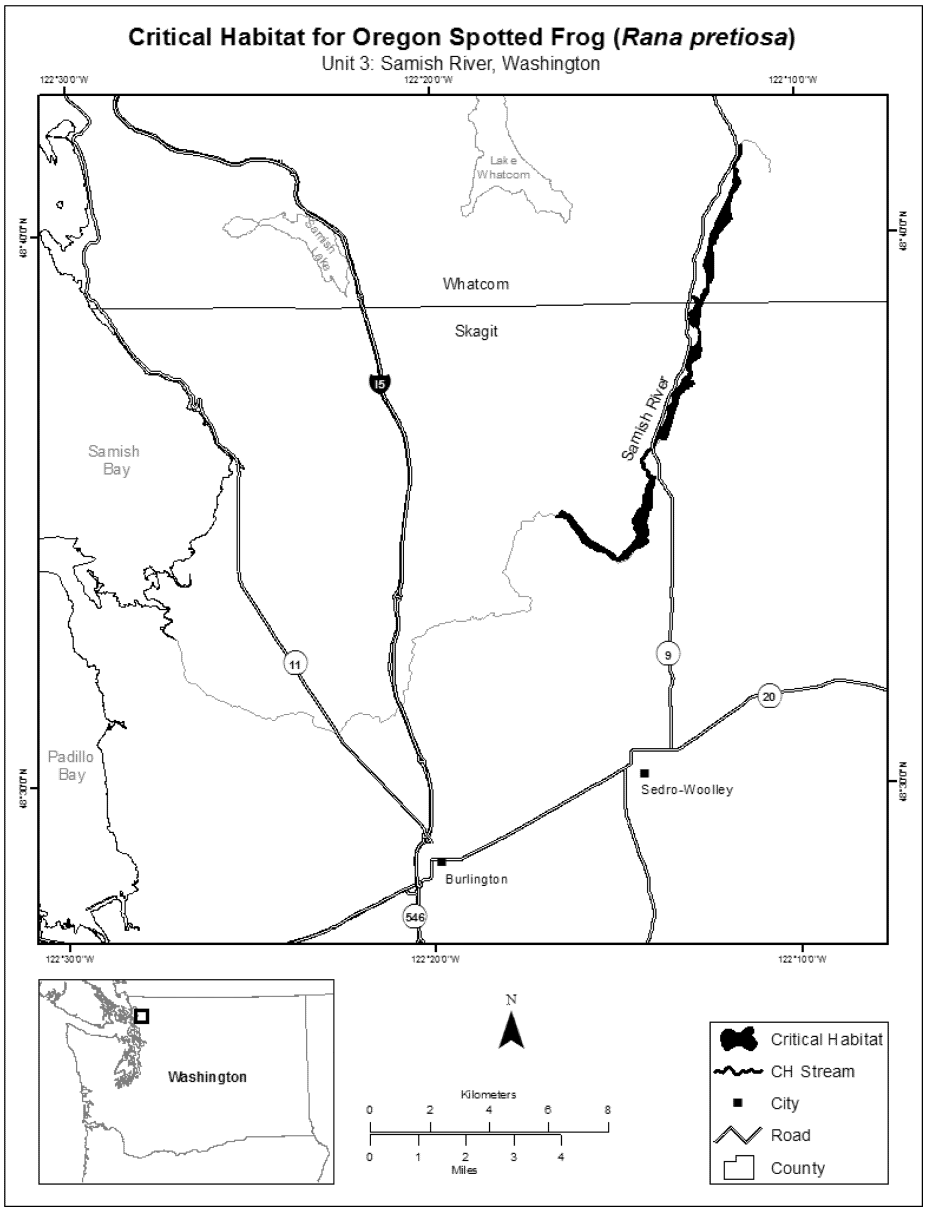
(6) Unit 1: Lower Chilliwack River, Whatcom County, Washington. Map of Unit 1 follows:



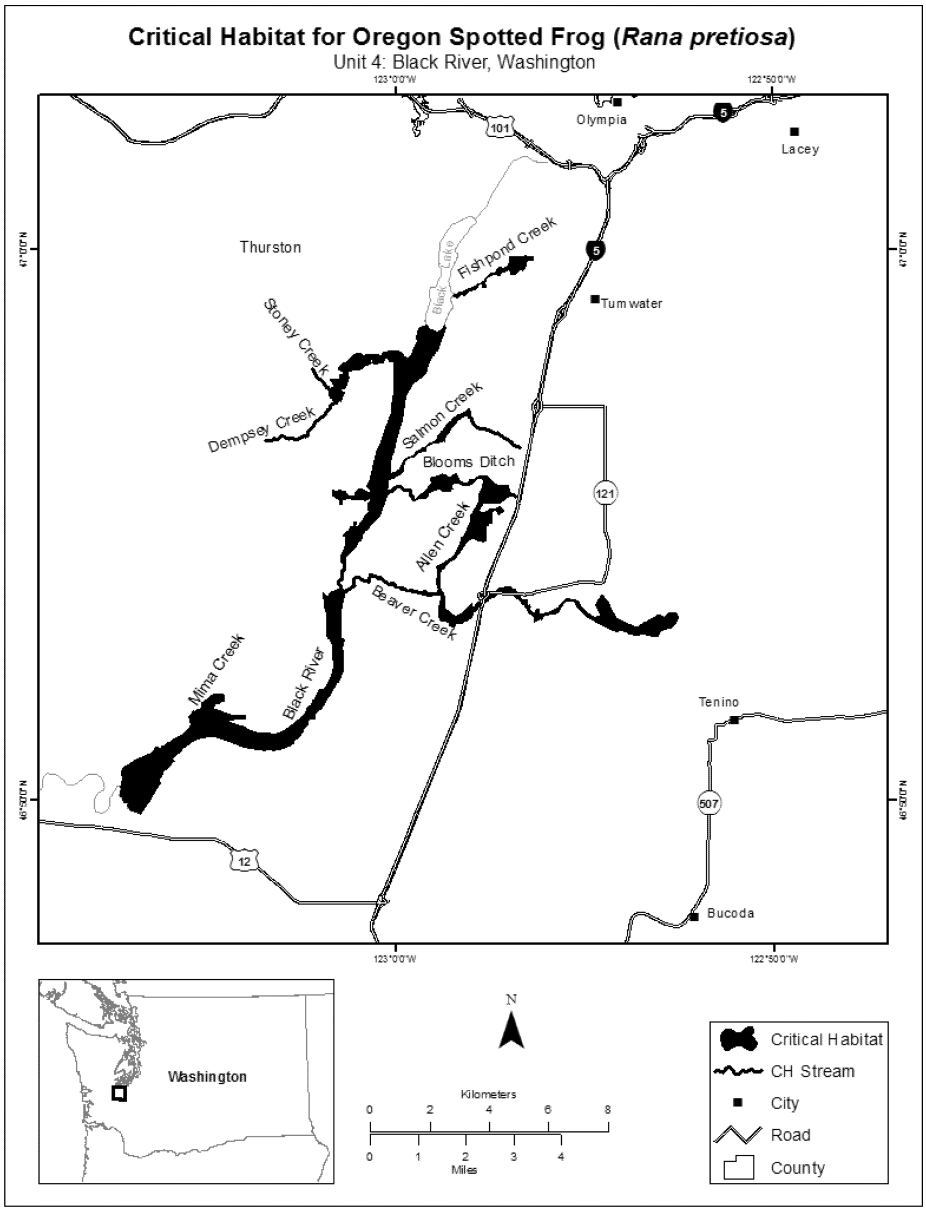
(7) Unit 2: South Fork Nooksack River, Whatcom County, Washington. Map of Unit 2 follows:



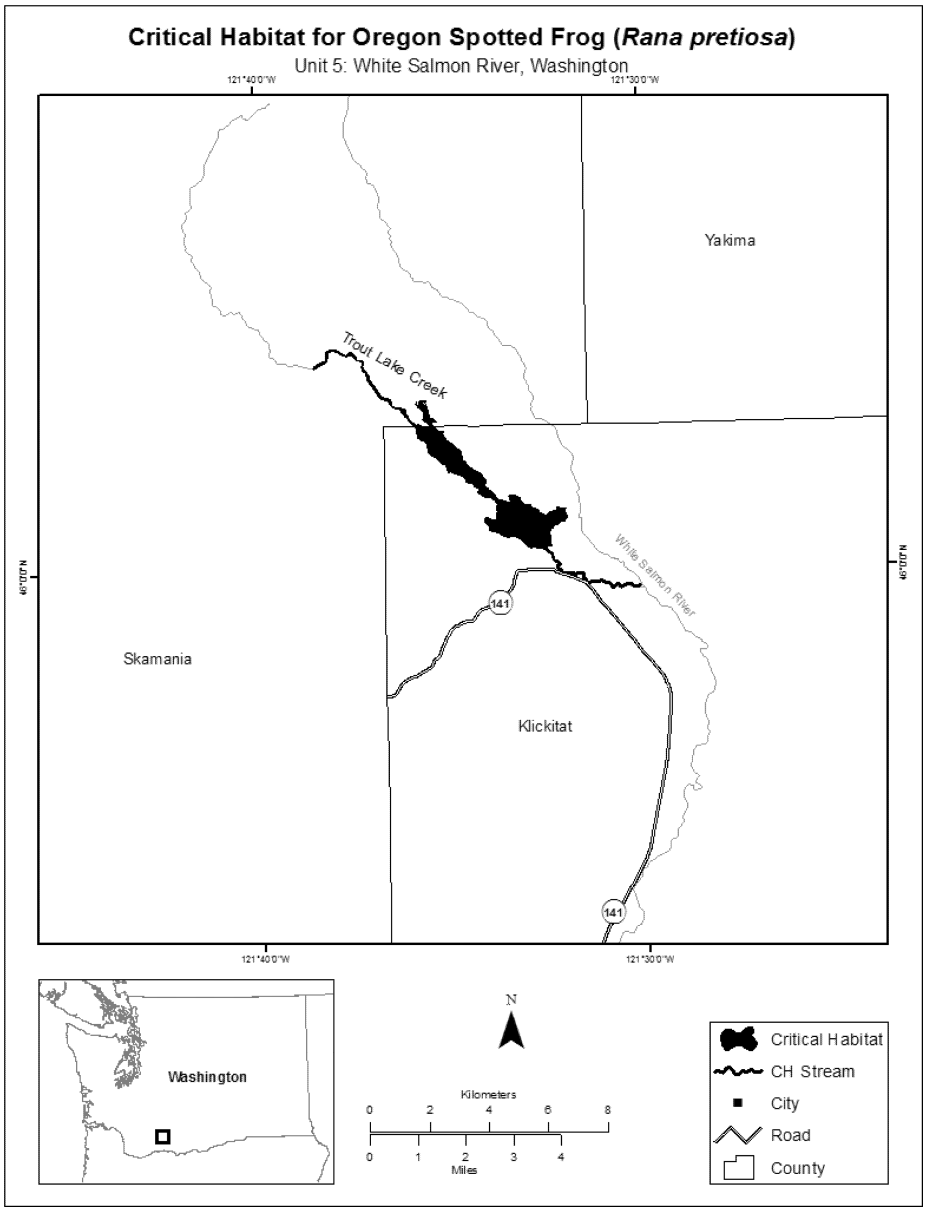
(8) Unit 3: Samish River, Whatcom and Skagit Counties, Washington. Map of Unit 3 follows:



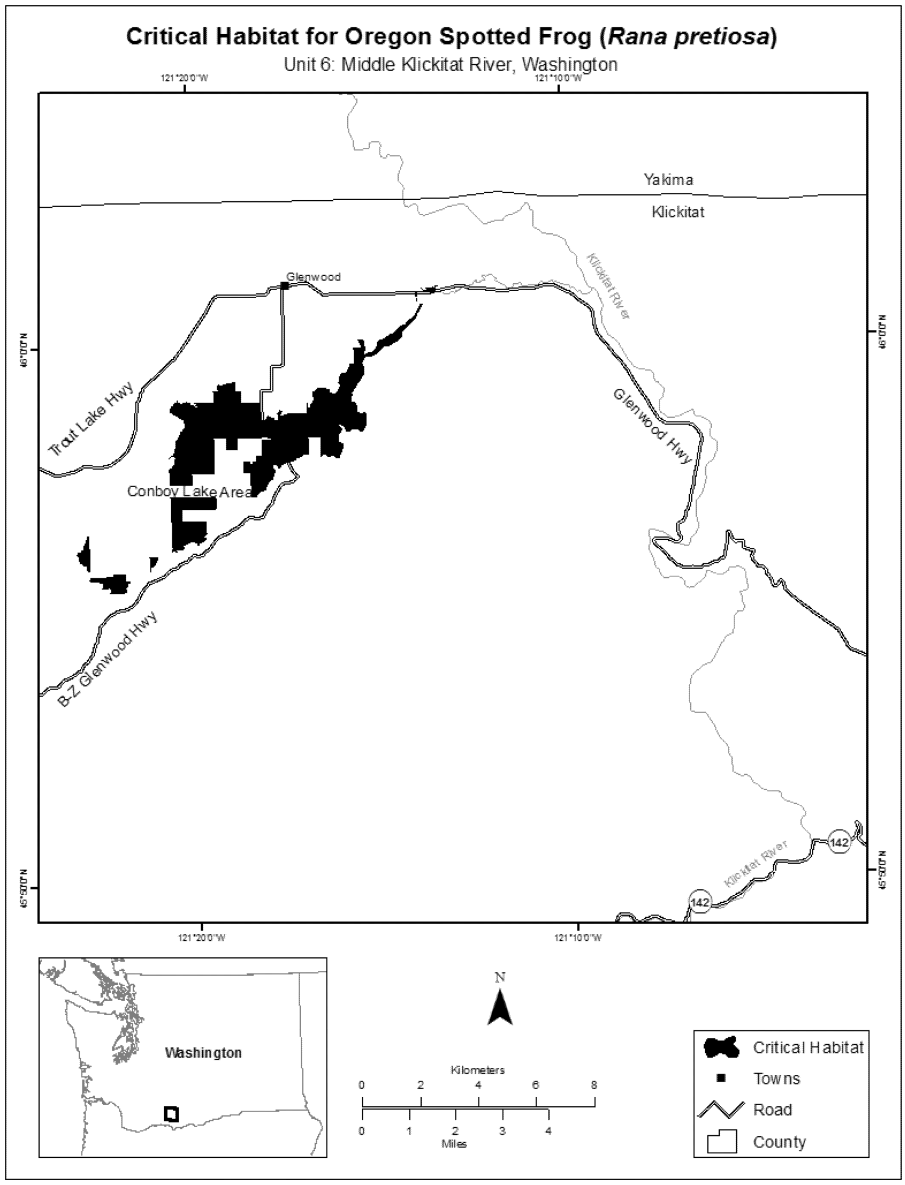
(9) Unit 4: Black River, Thurston County, Washington. Map of Unit 4 follows:



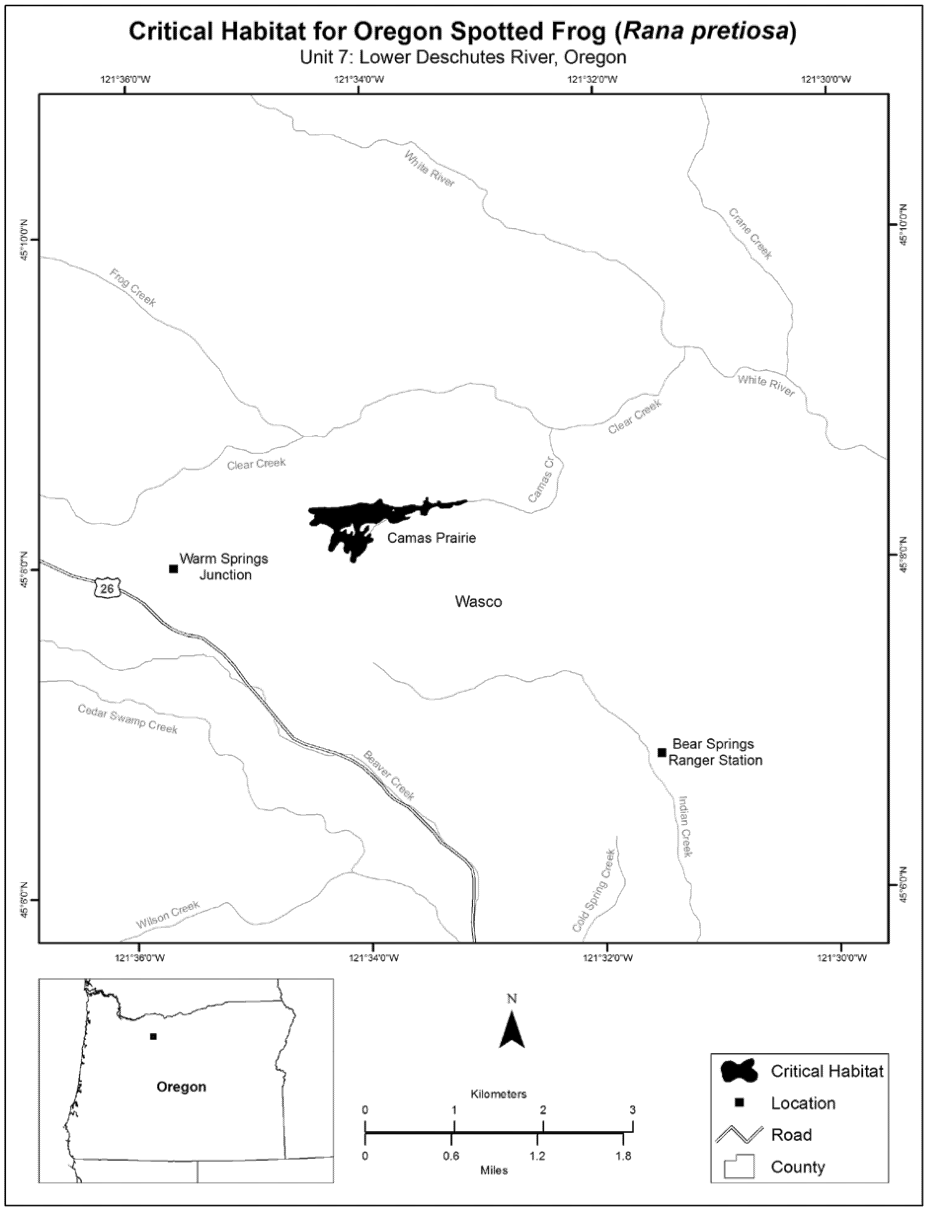
(10) Unit 5: White Salmon River, Skamania and Klickitat Counties, Washington. Map of Unit 5 follows:



(11) Unit 6: Middle Klickitat River, Klickitat County, Washington. Map of Unit 6 follows:

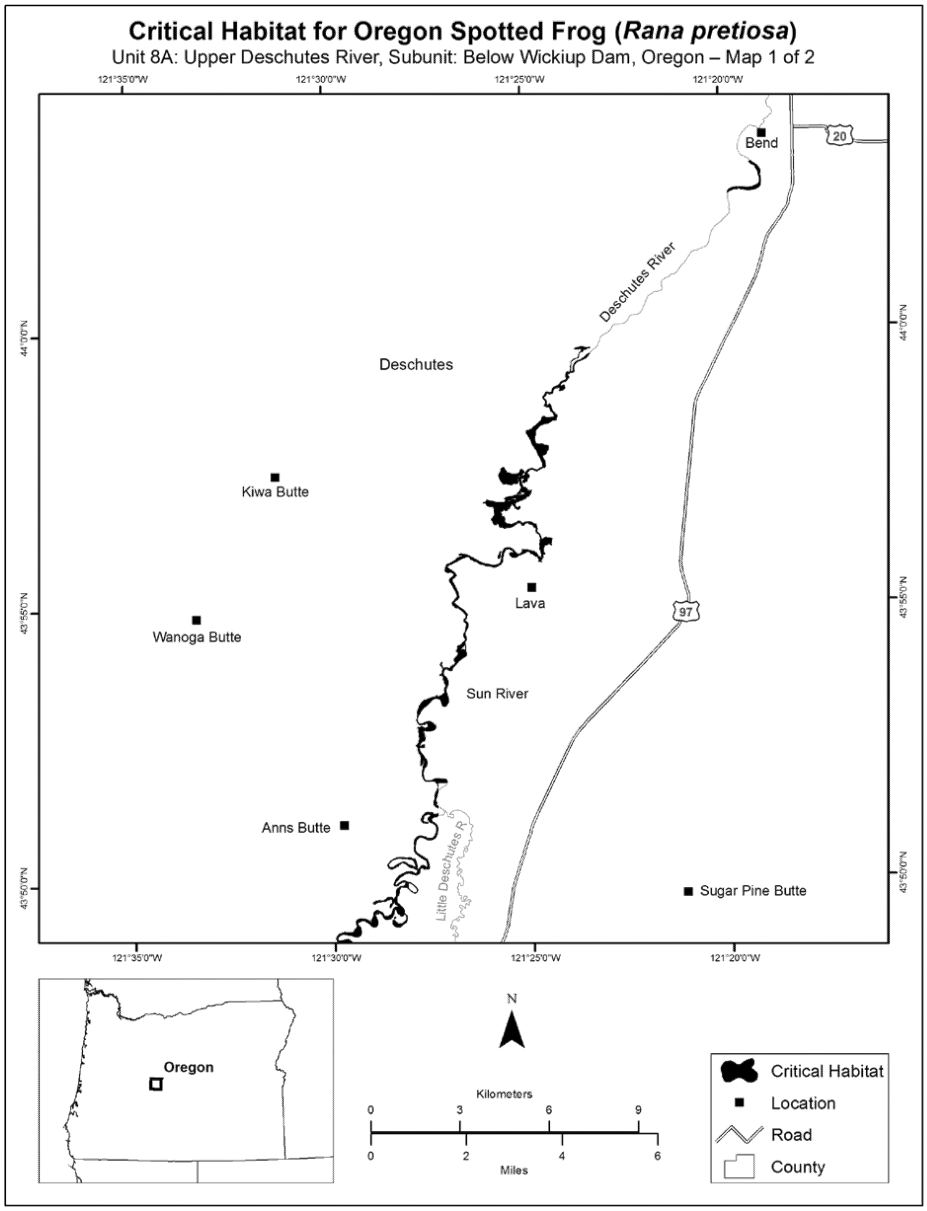


(12) Unit 7: Lower Deschutes River, Wasco County, Oregon. Map of Unit 7 follows:

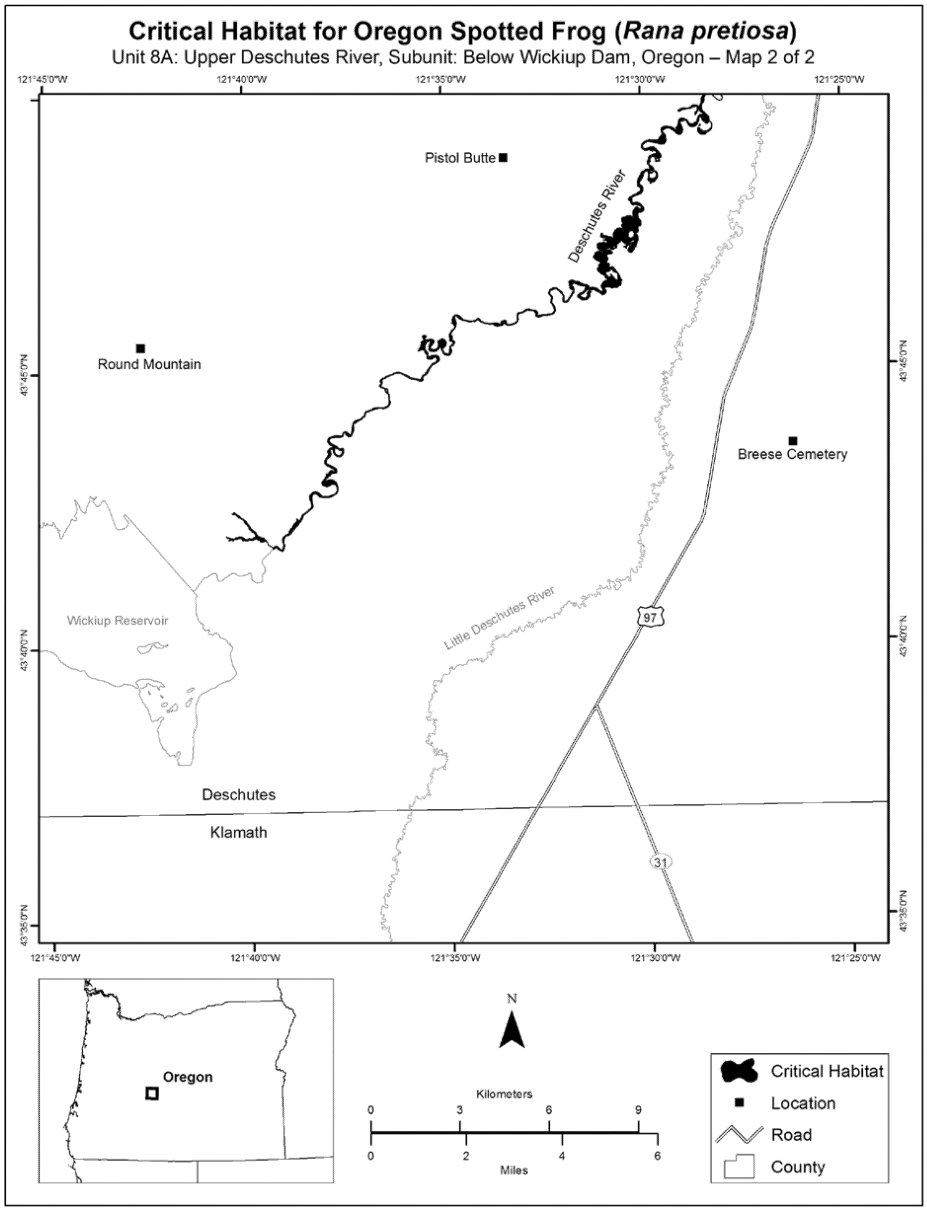


(13) Unit 8A: Upper Deschutes River, Subunit: Below Wickiup Dam, Oregon.

(i) Map 1 of 2, Upper Deschutes River, Below Wickiup Dam, Deschutes County, Oregon. Map 1 of 2 of Unit 8A follows:

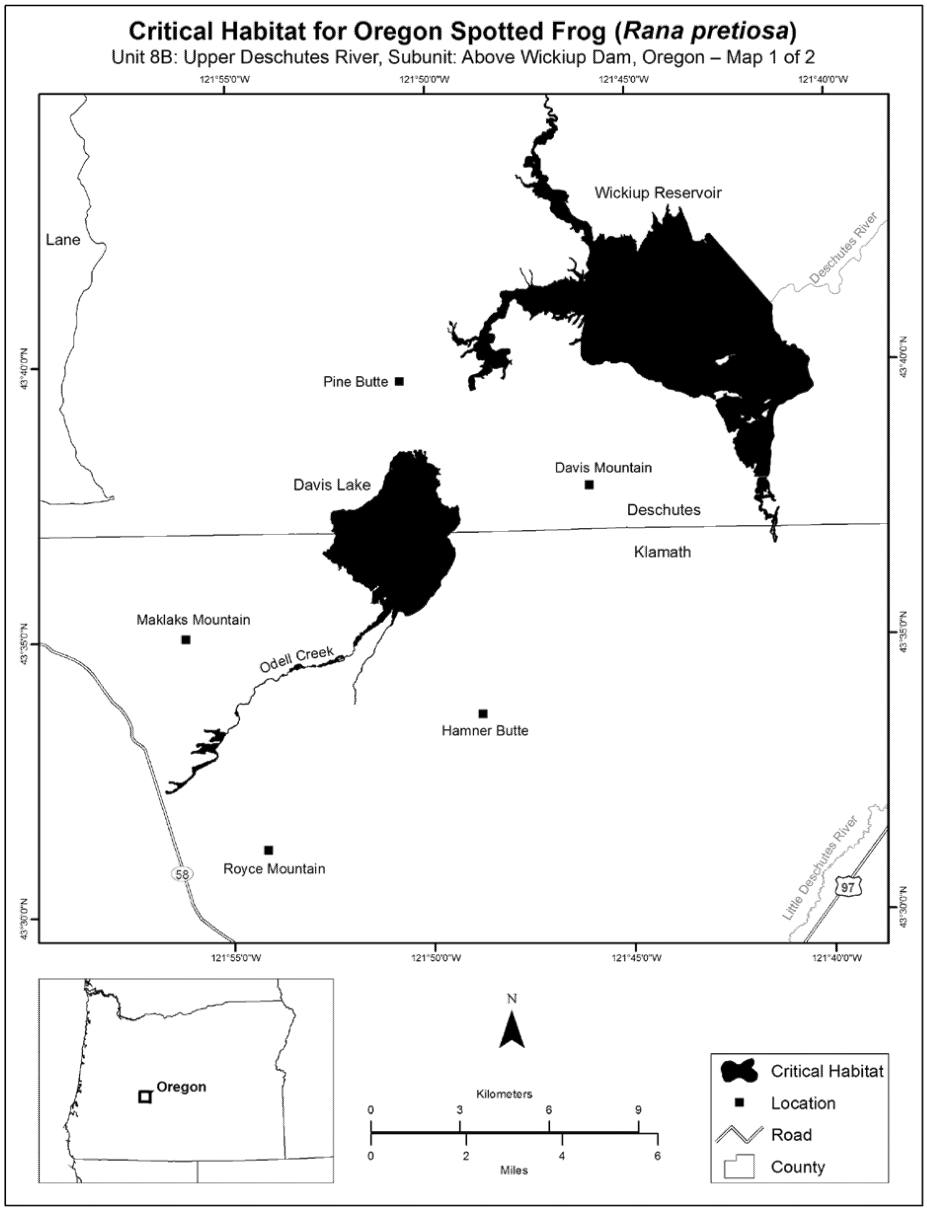


(ii) Map 2 of 2, Upper Deschutes River, Below Wickiup Dam, Deschutes County, Oregon. Map 2 of 2 of Unit 8A follows:

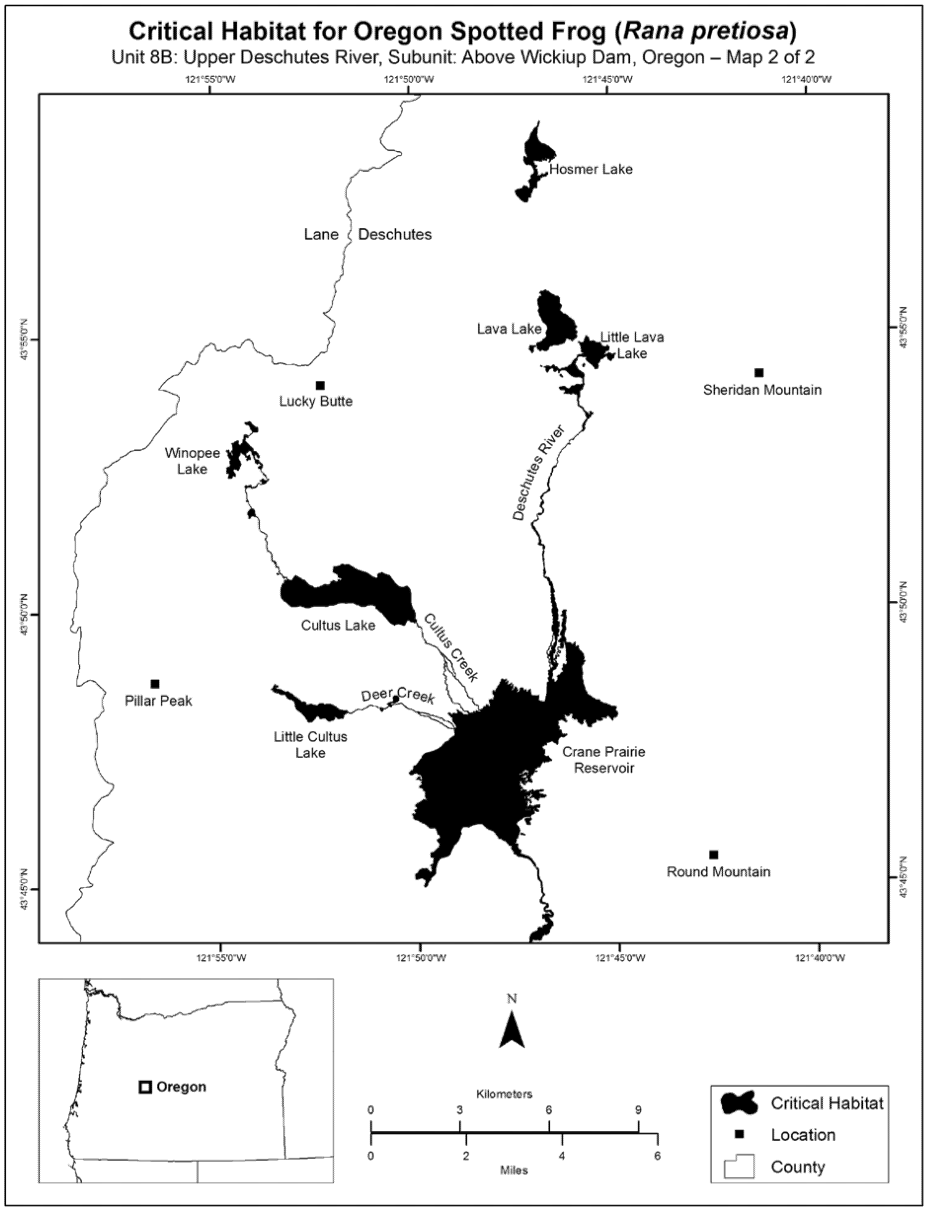


(14) Unit 8B: Upper Deschutes River, Subunit: Above Wickiup Dam, Oregon.

(i) Map 1 of 2, Upper Deschutes River, Above Wickiup Dam, Deschutes and Klamath Counties, Oregon. Map 1 of 2 of Unit 8B follows:

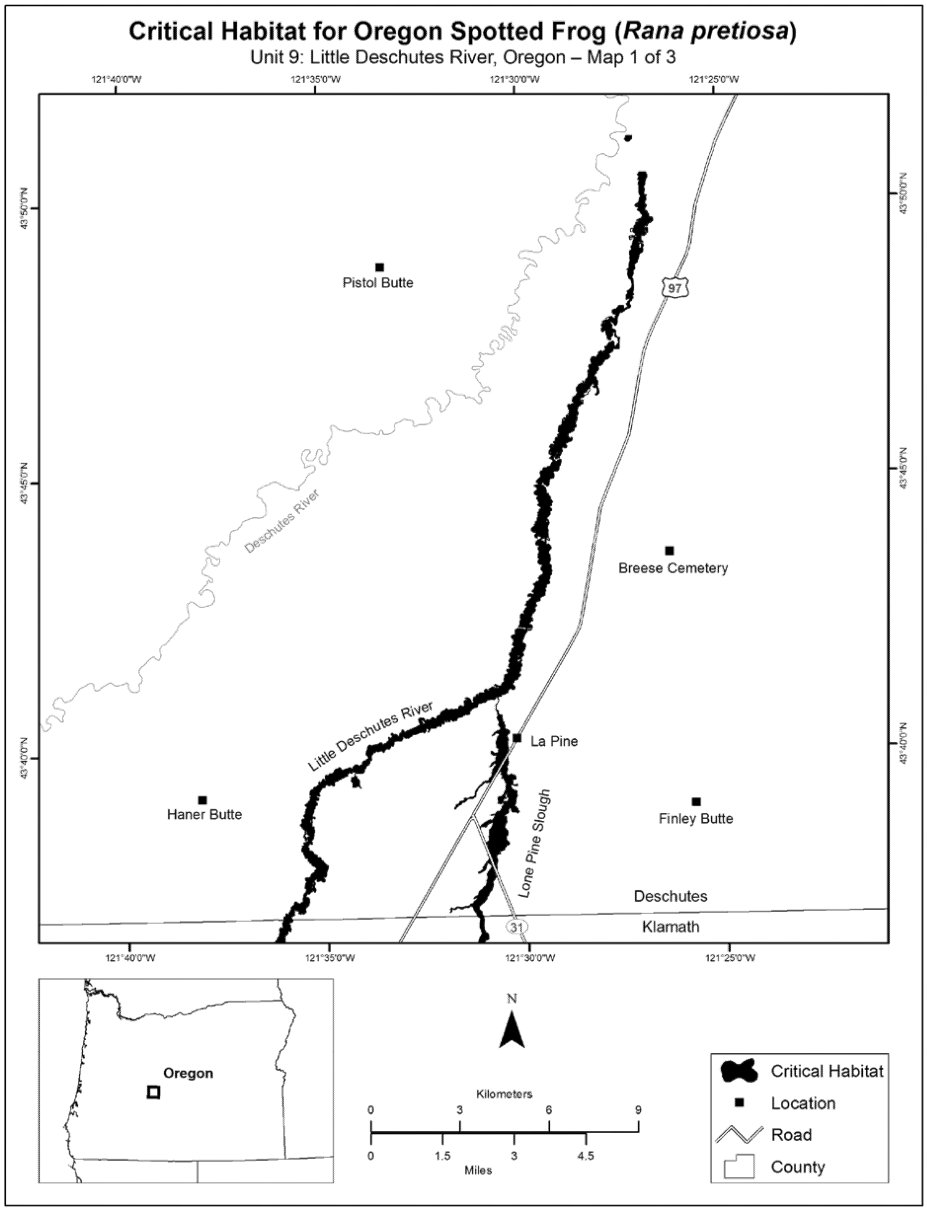


(ii) Map 2 of 2, Upper Deschutes River, Above Wickiup Dam, Deschutes and Klamath Counties, Oregon. Map 2 of 2 of Unit 8B follows:

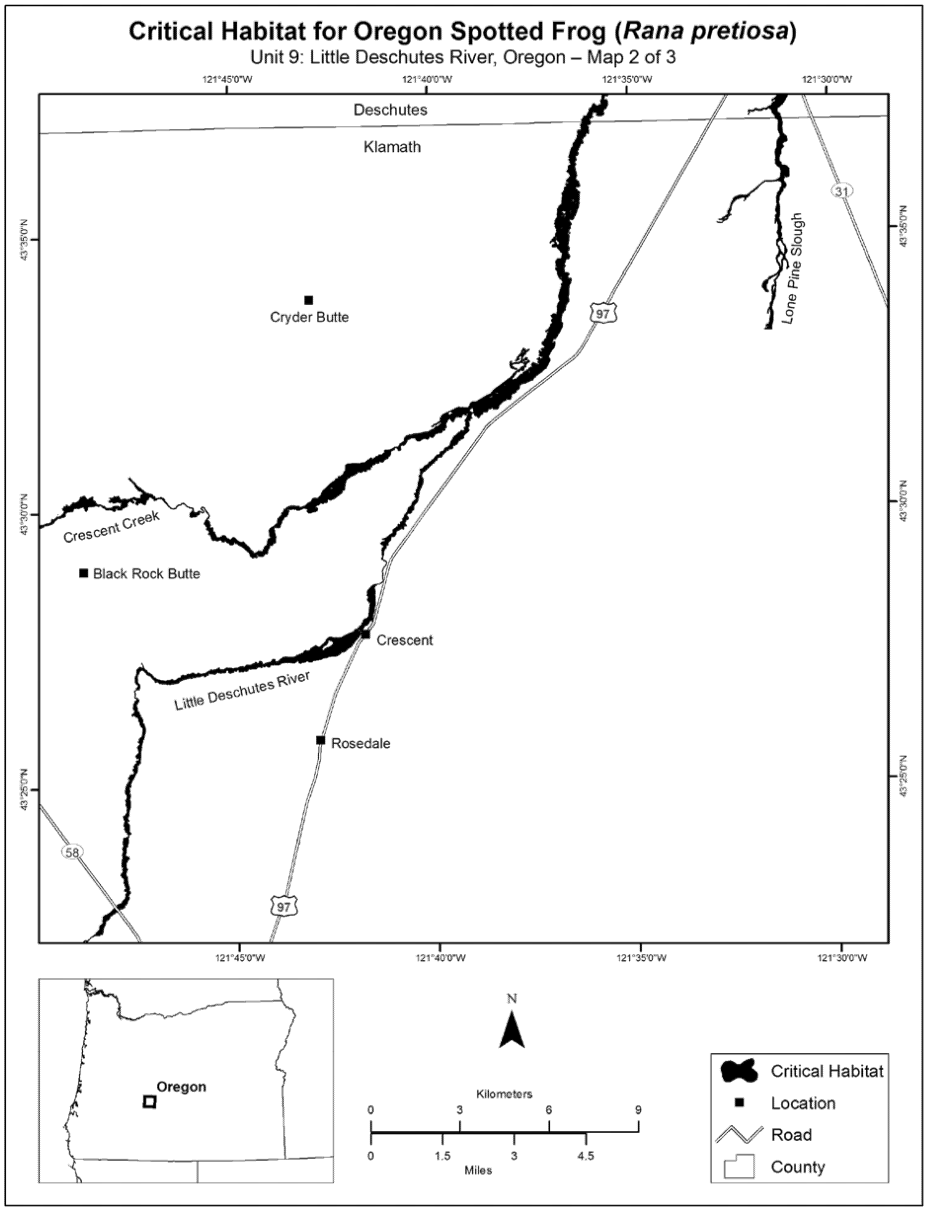


(15) Unit 9: Little Deschutes River, Deschutes and Klamath Counties, Oregon.

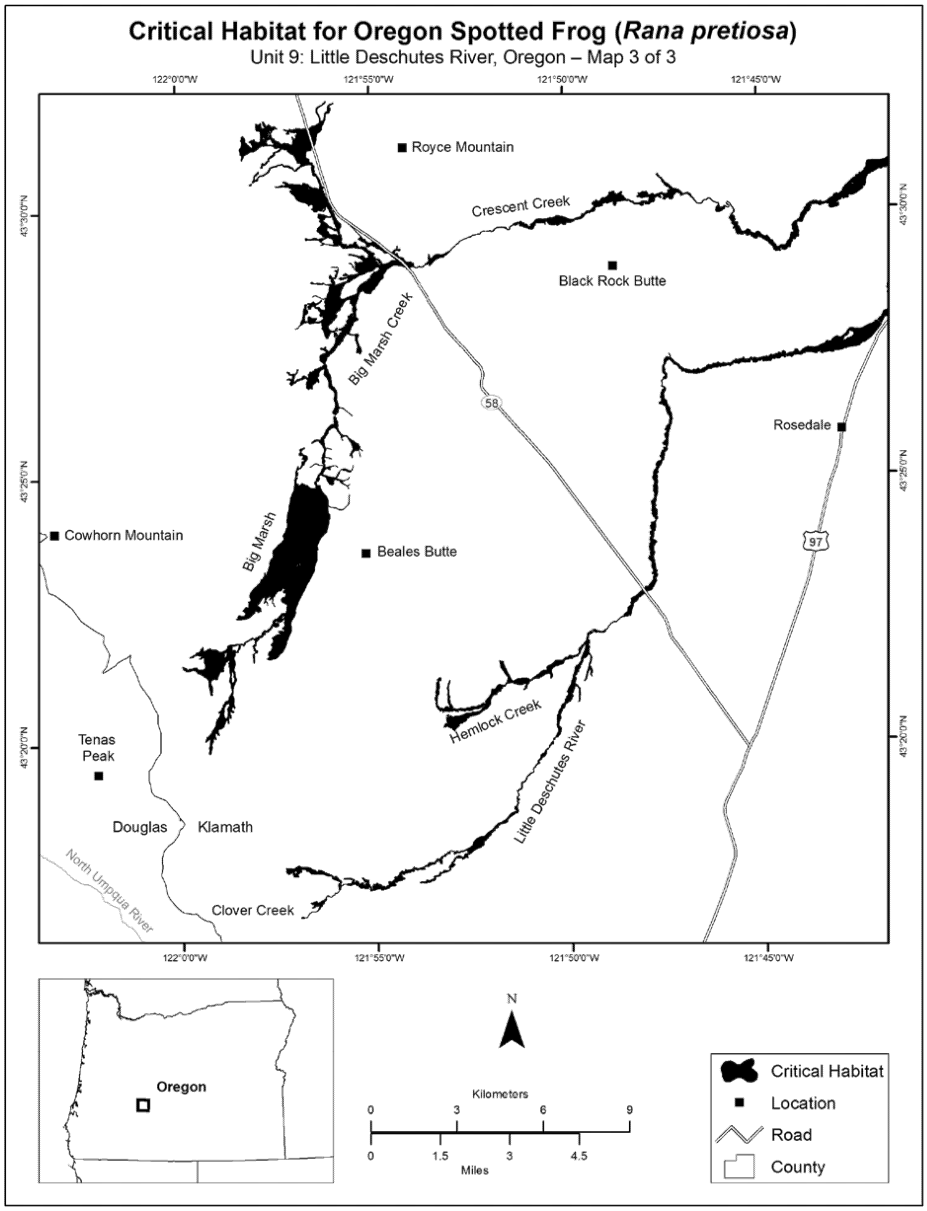
(i) Map 1 of 3, Little Deschutes River, Deschutes and Klamath Counties, Oregon. Map 1 of 3 of Unit 9 follows:



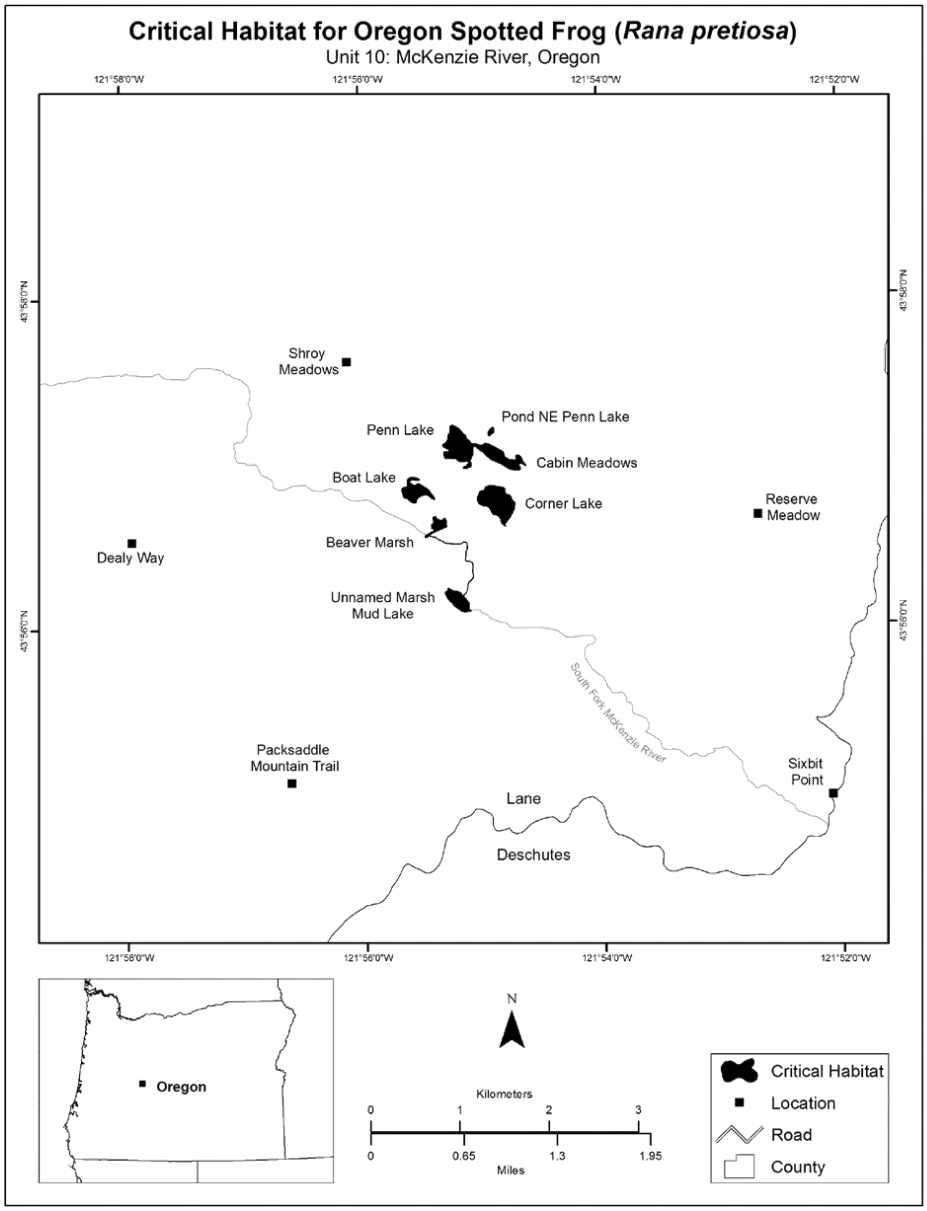
(ii) Map 2 of 3, Little Deschutes River, Deschutes and Klamath Counties, Oregon. Map 2 of 3 of Unit 9 follows:



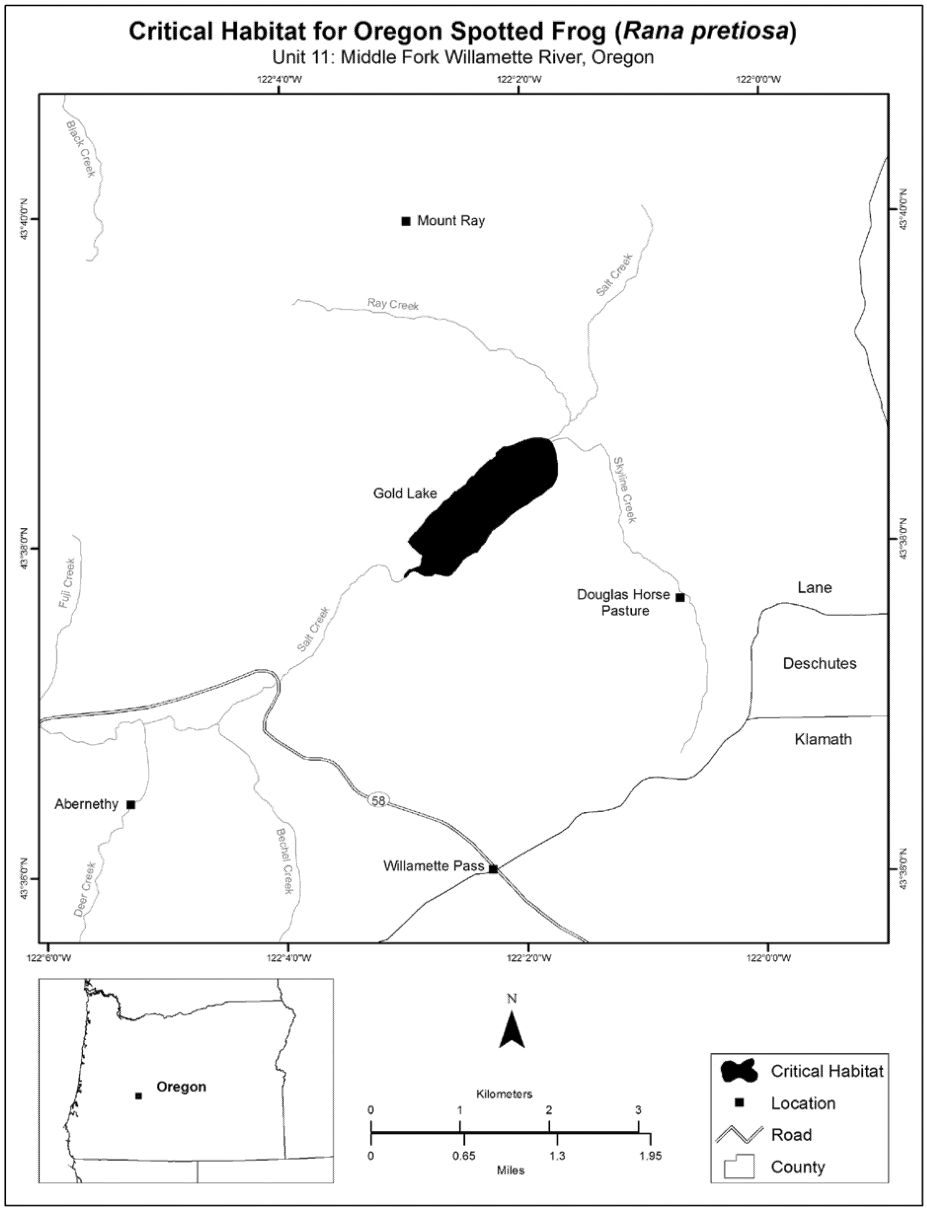
(iii) Map 3 of 3, Little Deschutes River, Deschutes and Klamath Counties, Oregon. Map 3 of 3 of Unit 9 follows:



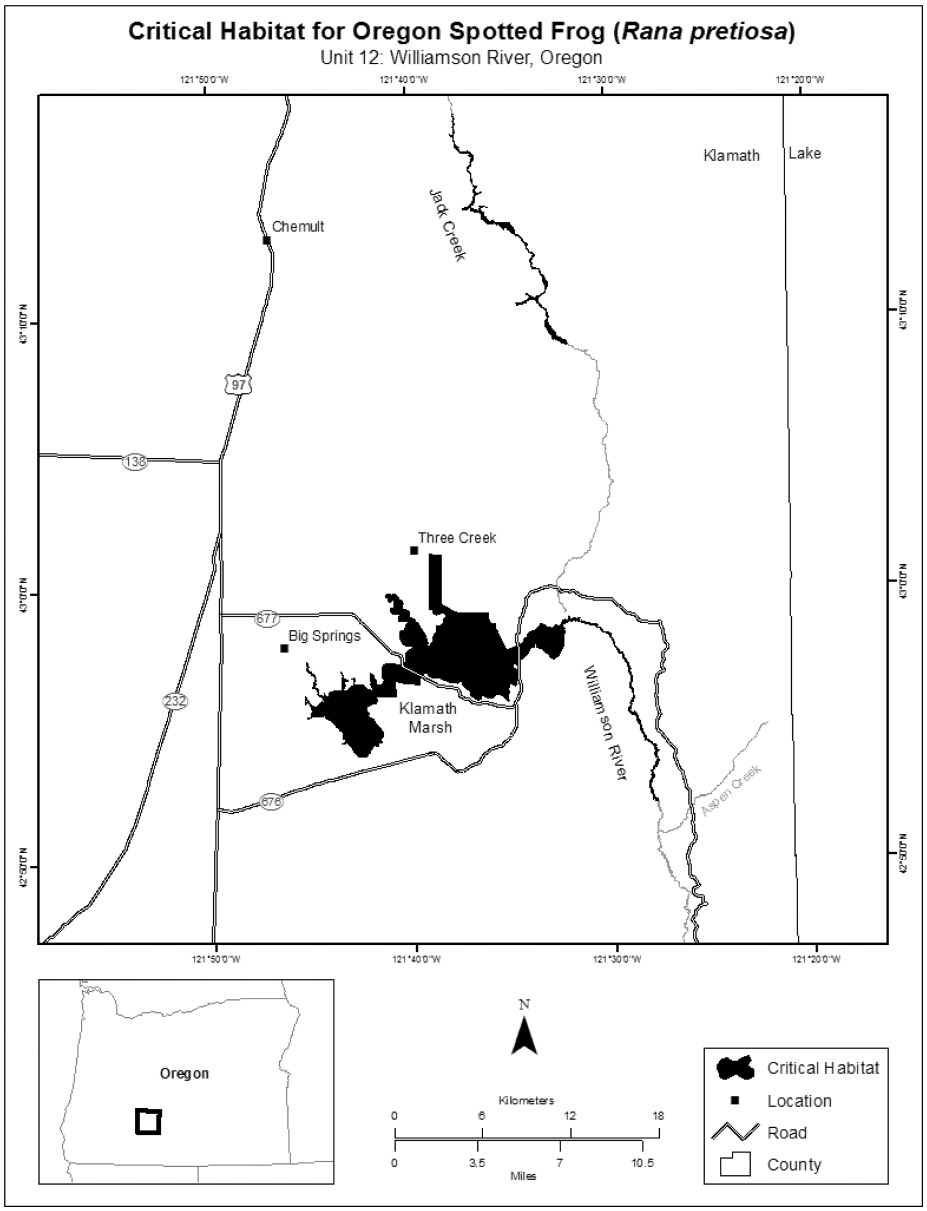
(16) Unit 10: McKenzie River, Lane County, Oregon. Map of Unit 10 follows:



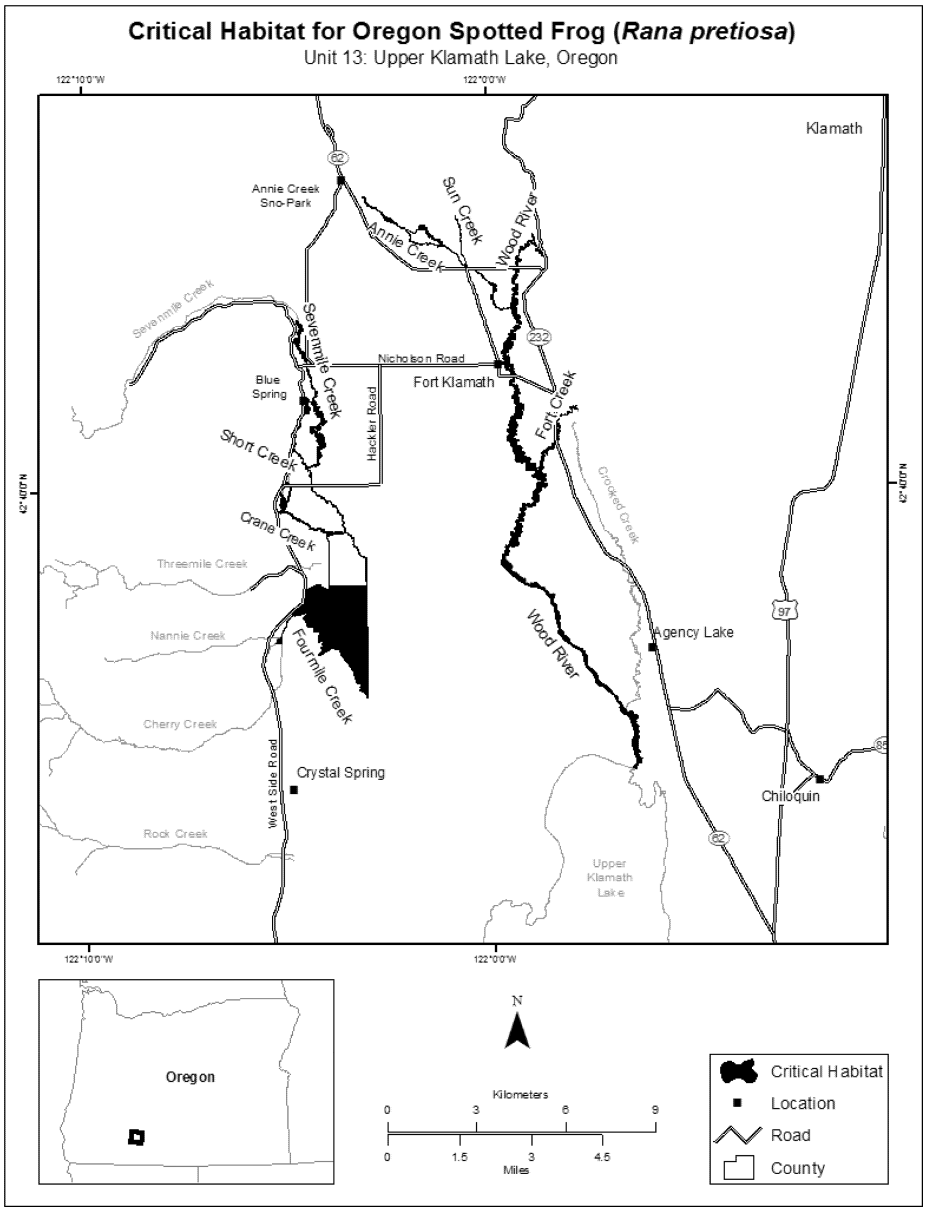
(17) Unit 11: Middle Fork Willamette River, Lane County, Oregon. Map of Unit 11 follows:



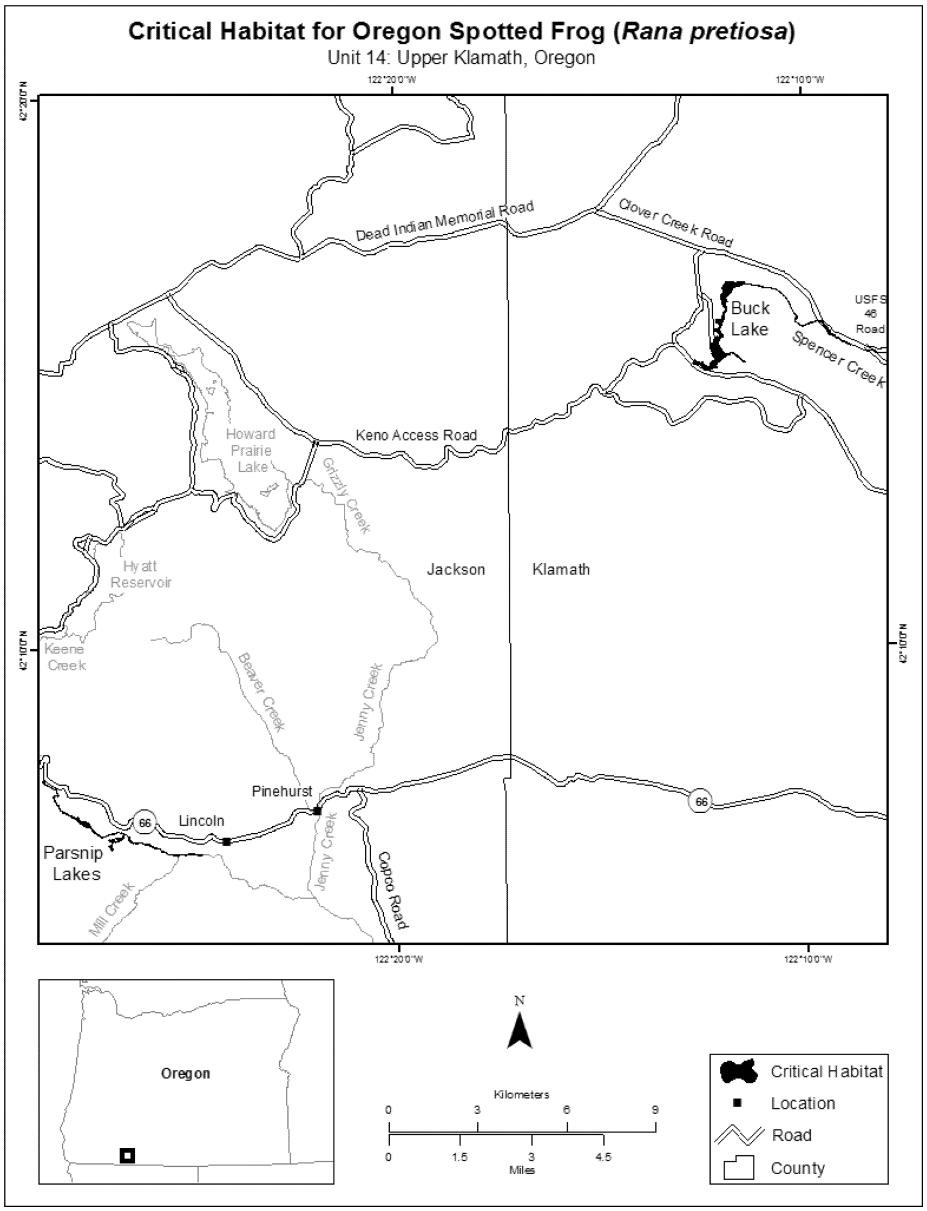
(18) Unit 12: Williamson River, Klamath County, Oregon. Map of Unit 12 follows:



(19) Unit 13: Upper Klamath Lake, Klamath County, Oregon. Map of Unit 13 follows:



(20) Unit 14: Upper Klamath, Jackson and Klamath Counties, Oregon. Map of Unit 14 follows:



SIERRA NEVADA YELLOW-LEGGED FROG (*Rana sierrae*)

(1) Critical habitat units are depicted for Lassen, Plumas, Sierra, Nevada, Placer, El Dorado, Amador, Alpine, Calaveras, Tuolumne, Mono, Mariposa, Madera, Fresno, and Inyo Counties, California, on the maps in this entry.

(2) Within these areas, the primary constituent elements of the physical or biological features essential to the conservation of the Sierra Nevada yellow-legged frog consist of:

(i) *Aquatic habitat for breeding and rearing.* Habitat that consists of permanent water bodies, or those that are either hydrologically connected with, or close to, permanent water bodies, including, but not limited to, lakes, streams, rivers, tarns, perennial creeks (or permanent plunge pools within intermittent creeks), pools (such as a body of impounded water contained above a natural dam), and other forms of aquatic habitat. This habitat must:

(A) For lakes, be of sufficient depth not to freeze solid (to the bottom) during the winter (no less than 1.7 meters (m) (5.6 feet (ft)), but generally greater than 2.5 m (8.2 ft), and optimally 5 m (16.4 ft) or deeper (unless some other refuge from freezing is available)).

(B) Maintain a natural flow pattern, including periodic flooding, and have functional community dynamics in order to provide sufficient productivity and a prey base to support the growth and development of rearing tadpoles and metamorphs.

(C) Be free of introduced predators.

(D) Maintain water during the entire tadpole growth phase (a minimum of 2 years). During periods of drought, these breeding sites may not hold water long enough for individuals to complete metamorphosis, but they may still be considered essential breeding habitat if they provide sufficient habitat in most years to foster recruitment within the reproductive lifespan of individual adult frogs.

(E) Contain:

(*1*) Bank and pool substrates consisting of varying percentages of soil or silt, sand, gravel, cobble, rock, and boulders (for basking and cover);

(*2*) Shallower microhabitat with solar exposure to warm lake areas and to foster primary productivity of the food web;

(*3*) Open gravel banks and rocks or other structures projecting above or just beneath the surface of the water for adult sunning posts;

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

(*5*) Sufficient food resources to provide for tadpole growth and development.

(ii) *Aquatic nonbreeding habitat (including overwintering habitat).* This habitat may contain the same characteristics as aquatic breeding and rearing habitat (often at the same locale), and may include lakes, ponds, tarns, streams, rivers, creeks, plunge pools within intermittent creeks, seeps, and springs that may not hold water long enough for the species to complete its aquatic life cycle. This habitat provides for shelter, foraging, predator avoidance, and aquatic dispersal of juvenile and adult mountain yellow-legged frogs. Aquatic nonbreeding habitat contains:

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

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

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

(D) Sufficient food resources to support juvenile and adult foraging;

(E) Overwintering refugia, where thermal properties of the microhabitat protect hibernating life stages from winter freezing, such as crevices or holes within bedrock, in and near shore; and/or

(F) Streams, stream reaches, or wet meadow habitats that can function as corridors for movement between aquatic habitats used as breeding or foraging sites.

(iii) *Upland areas.*

(A) Upland areas adjacent to or surrounding breeding and nonbreeding aquatic habitat that provide area for feeding and movement by mountain yellow-legged frogs.

(*1*) For stream habitats, this area extends 25 m (82 ft) from the bank or shoreline.

(*2*) In areas that contain riparian habitat and upland vegetation (for example, mixed conifer, ponderosa pine, montane conifer, and montane riparian woodlands), the canopy overstory should be sufficiently thin (generally not to exceed 85 percent) to allow sunlight to reach the aquatic habitat and thereby provide basking areas for the species.

(*3*) For areas between proximate (within 300 m (984 ft)) water bodies (typical of some high mountain lake habitats), the upland area extends from the bank or shoreline between such water bodies.

(*4*) Within mesic habitats such as lake and meadow systems, the entire area of physically contiguous or proximate habitat is suitable for dispersal and foraging.

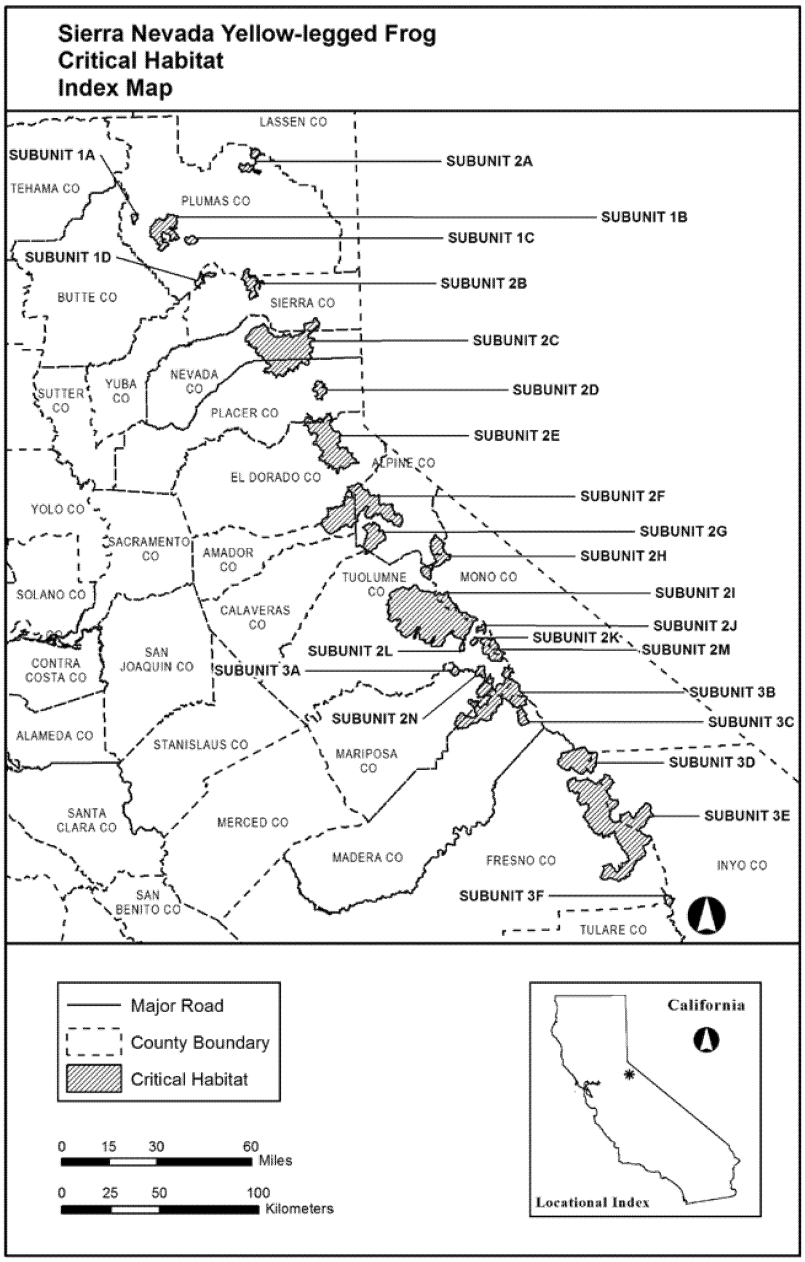
(B) Upland areas (catchments) adjacent to and surrounding both breeding and nonbreeding aquatic habitat that provide for the natural hydrologic regime (water quantity) of aquatic habitats. These upland areas should also allow for the maintenance of sufficient water quality to provide for the various life stages of the frog and its prey base.

(3) Critical habitat does not include manmade structures (such as buildings, aqueducts, runways, roads, and other paved areas) and the land on which they are located existing within the legal boundaries of designated critical habitat on September 26, 2016.

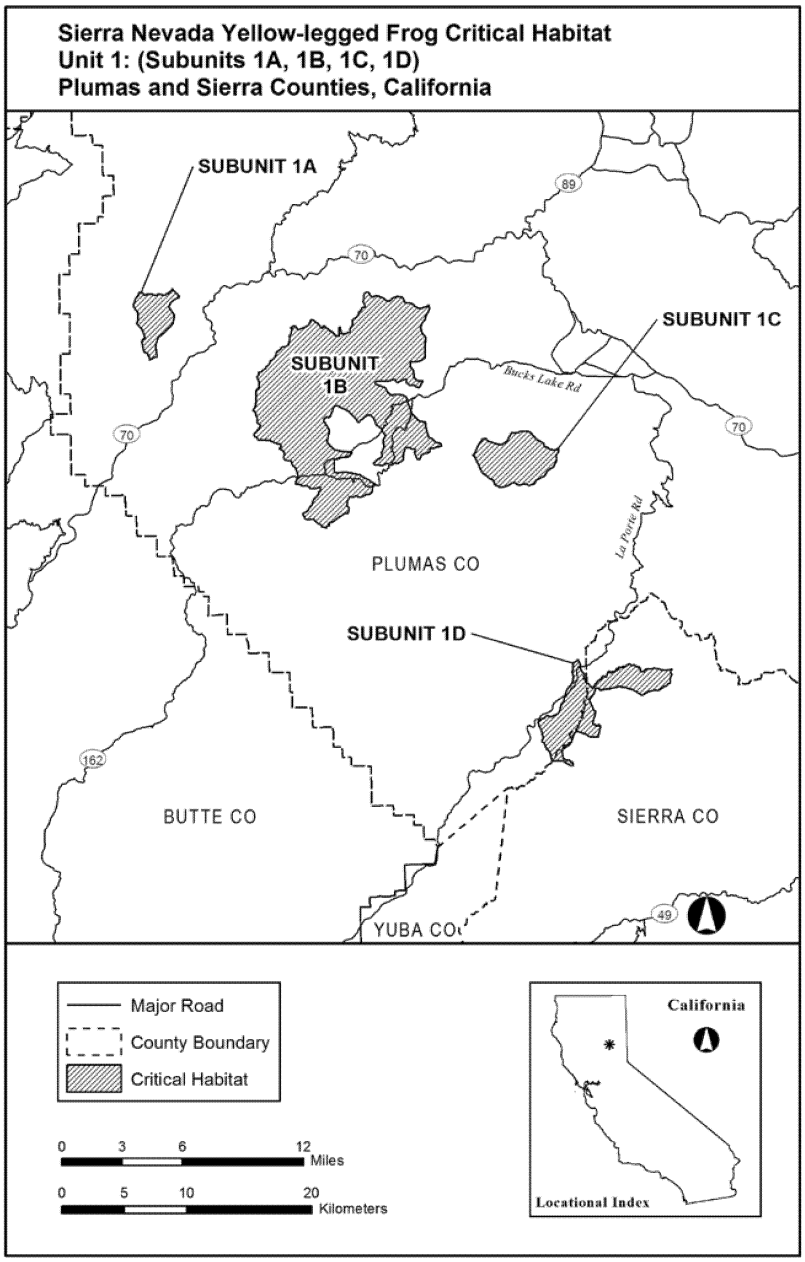
(4) *Critical habitat map units.* The critical habitat subunit maps were originally created using ESRI's ArcGIS Desktop 10.2.1 software and then exported as .emf files. All maps are in the North American Datum of 1983

(NAD83), Universal Transverse Mercator (UTM) Zone 10N. The California County Boundaries dataset (Teale Data Center), and the USA Minor Highways, USA Major Roads, and USA Rivers and Streams layers (ESRI's 2010 StreetMap Data) were incorporated as base layers to assist in the geographic location of the critical habitat subunits. The coordinates or plot points or both on which each map is based are available to the public on *http://regulations.gov* at Docket No. FWS–R8–ES–2012–0074, on our Internet site (*http://www.fws.gov/sacramento*), and at the Sacramento Fish and Wildlife Office, 2800 Cottage Way Room W–2605, Sacramento, CA 95825.

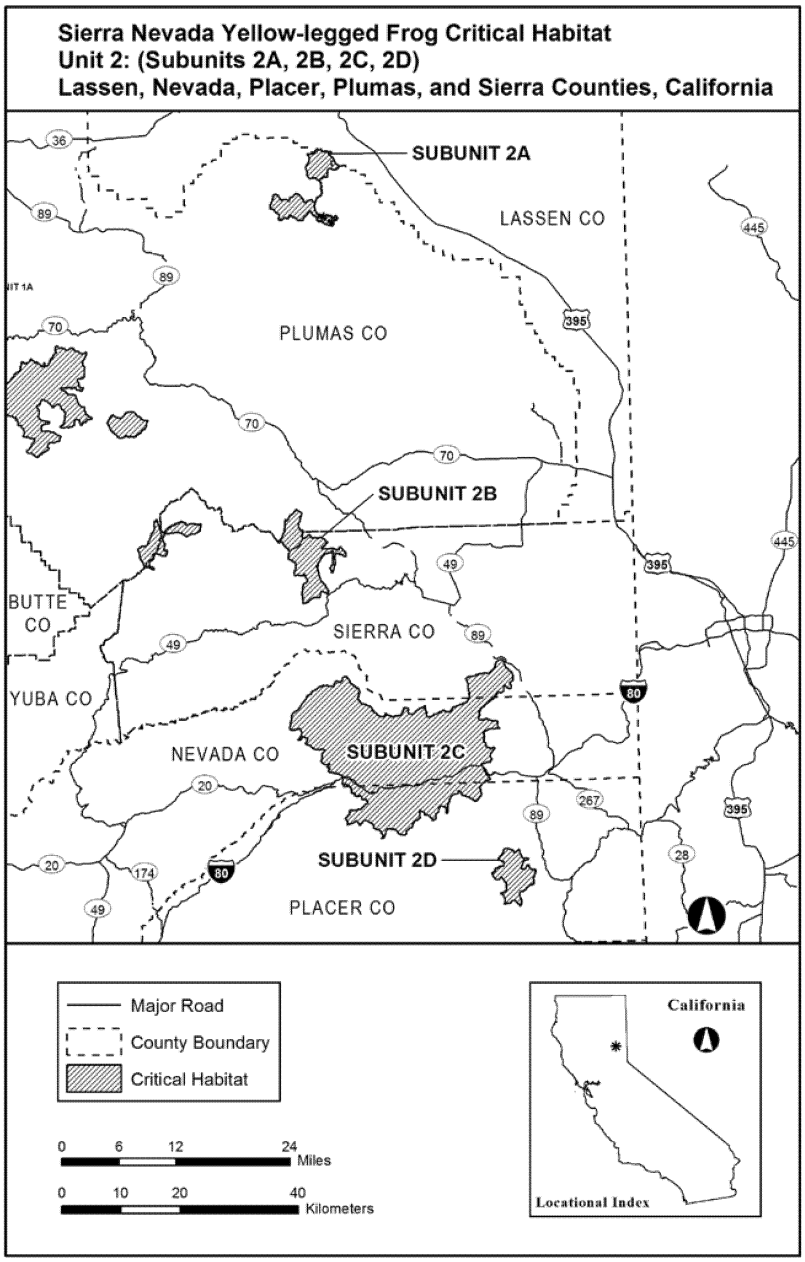
(5) Index map for Sierra Nevada yellow-legged frog critical habitat follows:



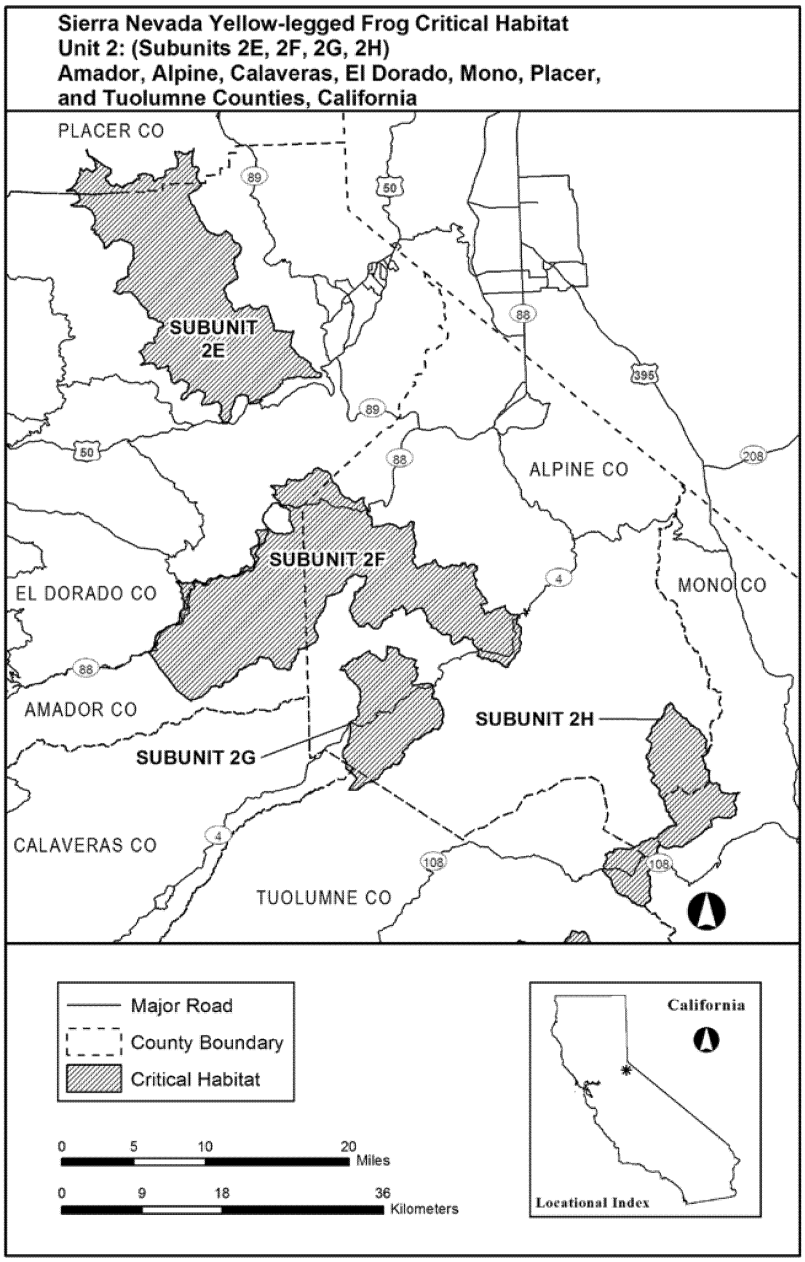
(6) Unit 1 (Subunits 1A, 1B, 1C, 1D), Plumas, and Sierra Counties, California. Map follows:



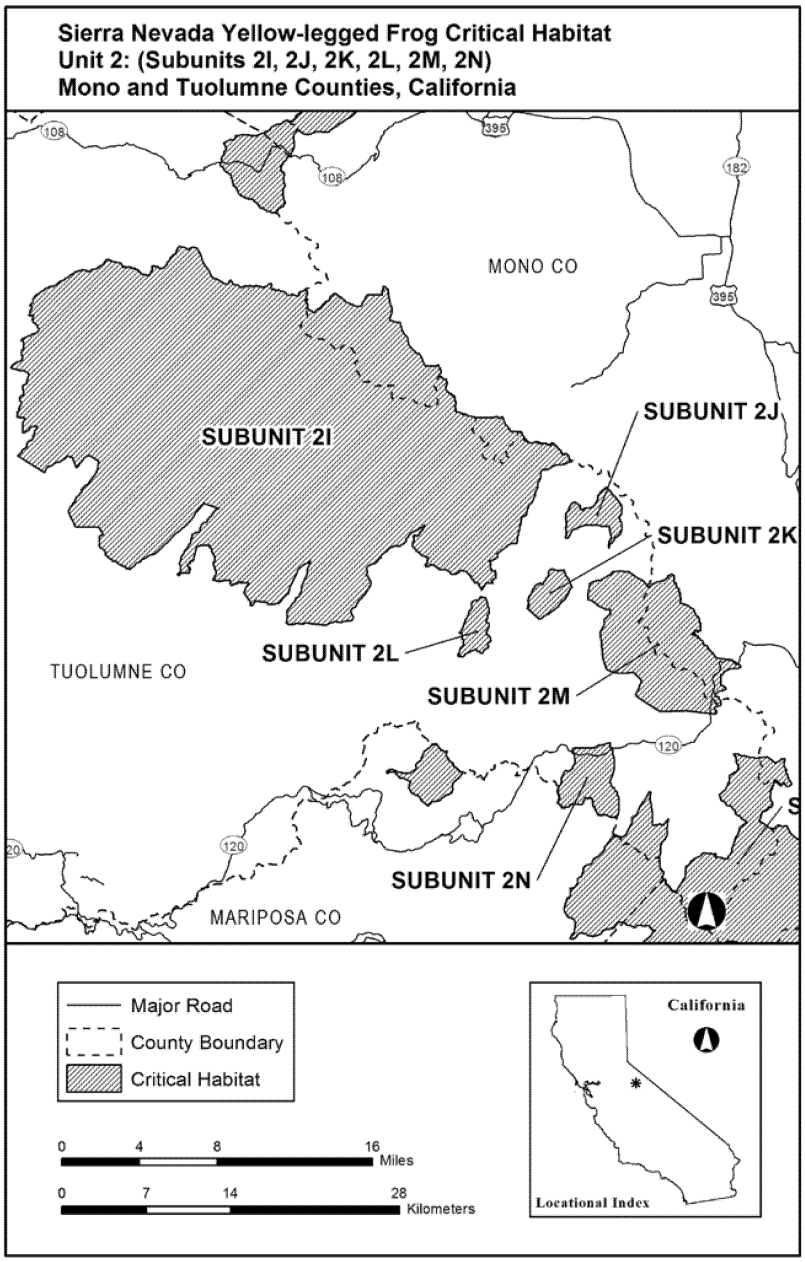
(7) Unit 2 (Subunits 2A, 2B, 2C, 2D), Lassen, Plumas, Sierra, Nevada, and Placer Counties, California. Map follows:



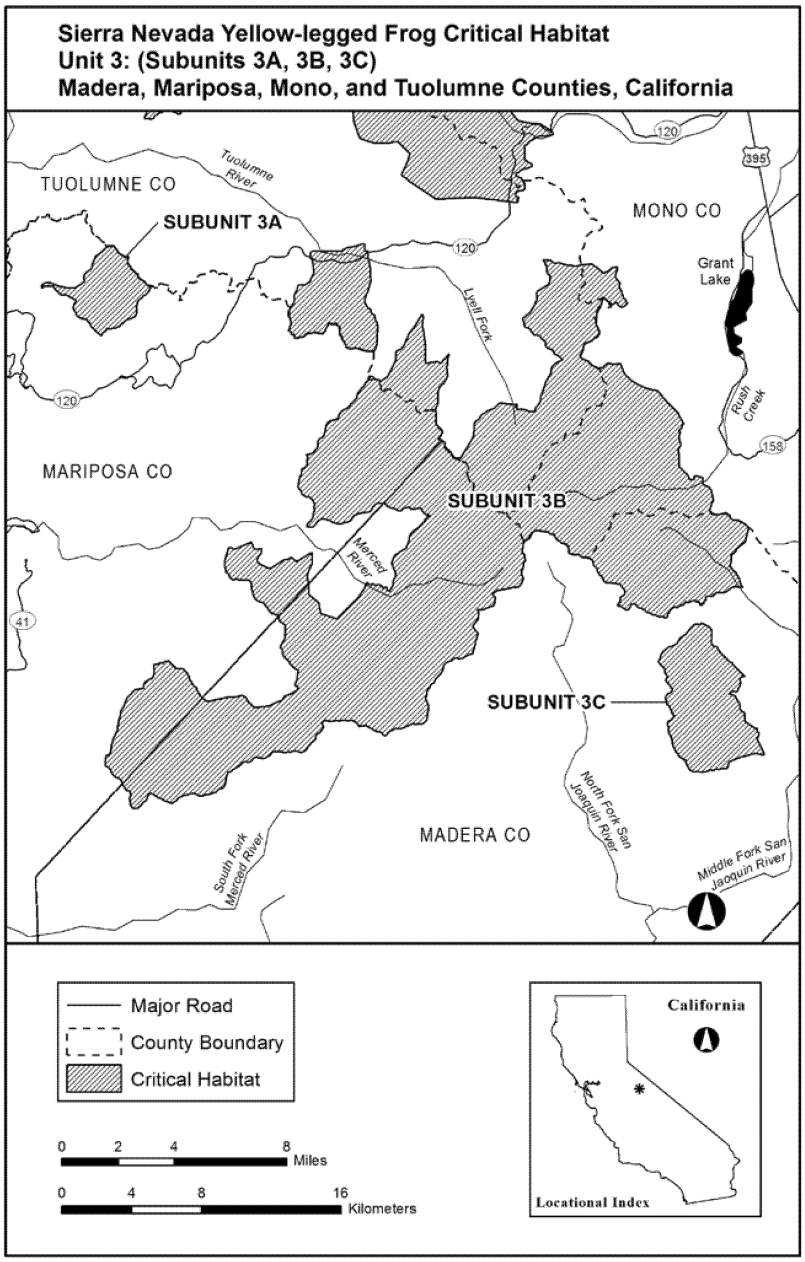
(8) Unit 2 (Subunits 2E, 2F, 2G, 2H), Placer, El Dorado, Amador, Alpine, Calaveras, Tuolumne, and Mono Counties, California. Map follows:



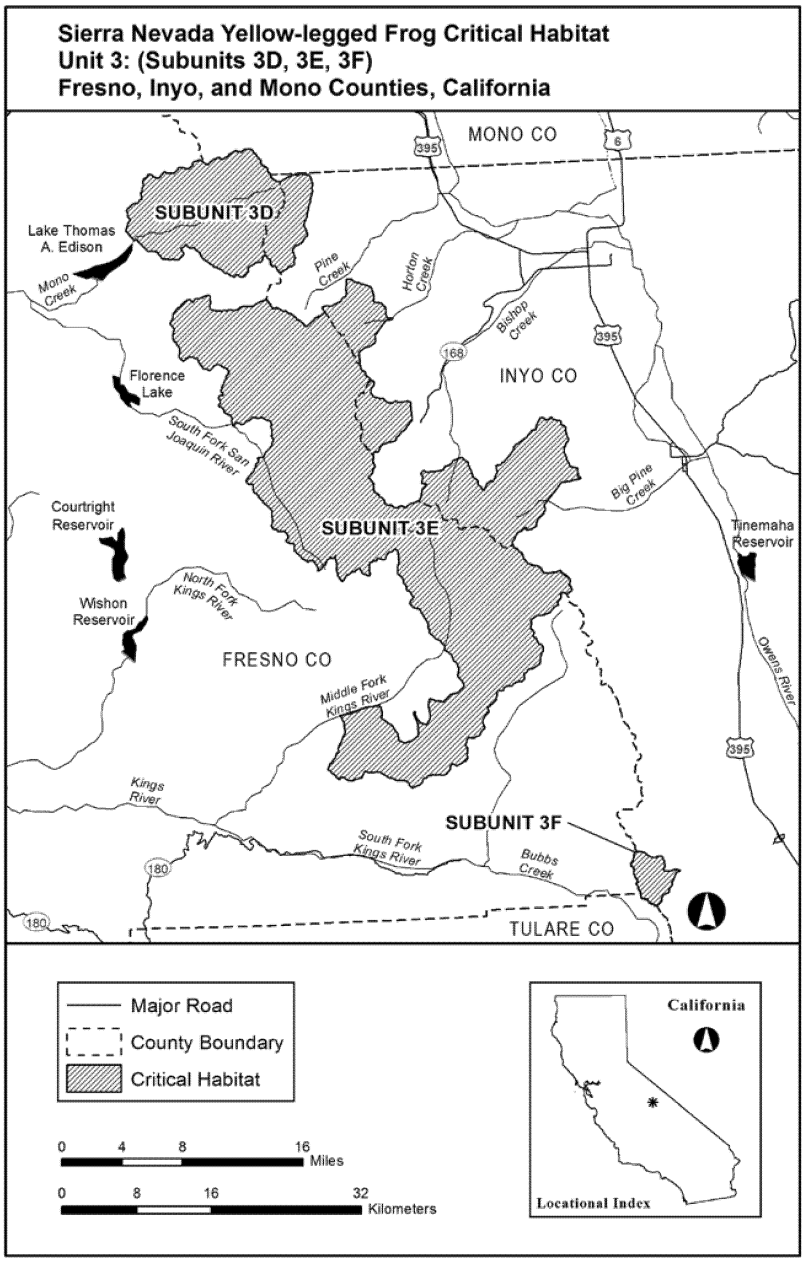
(9) Unit 2 (Subunits 2I, 2J, 2K, 2L, 2M, 2N), Tuolumne and Mono Counties, California. Map follows:



(10) Unit 3 (Subunits 3A, 3B, 3C), Tuolumne, Mariposa, Mono, and Madera Counties, California. Map follows:



(11) Unit 3 (Subunits 3D, 3E, 3F), Mono, Fresno, and Inyo Counties, California. Map 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;

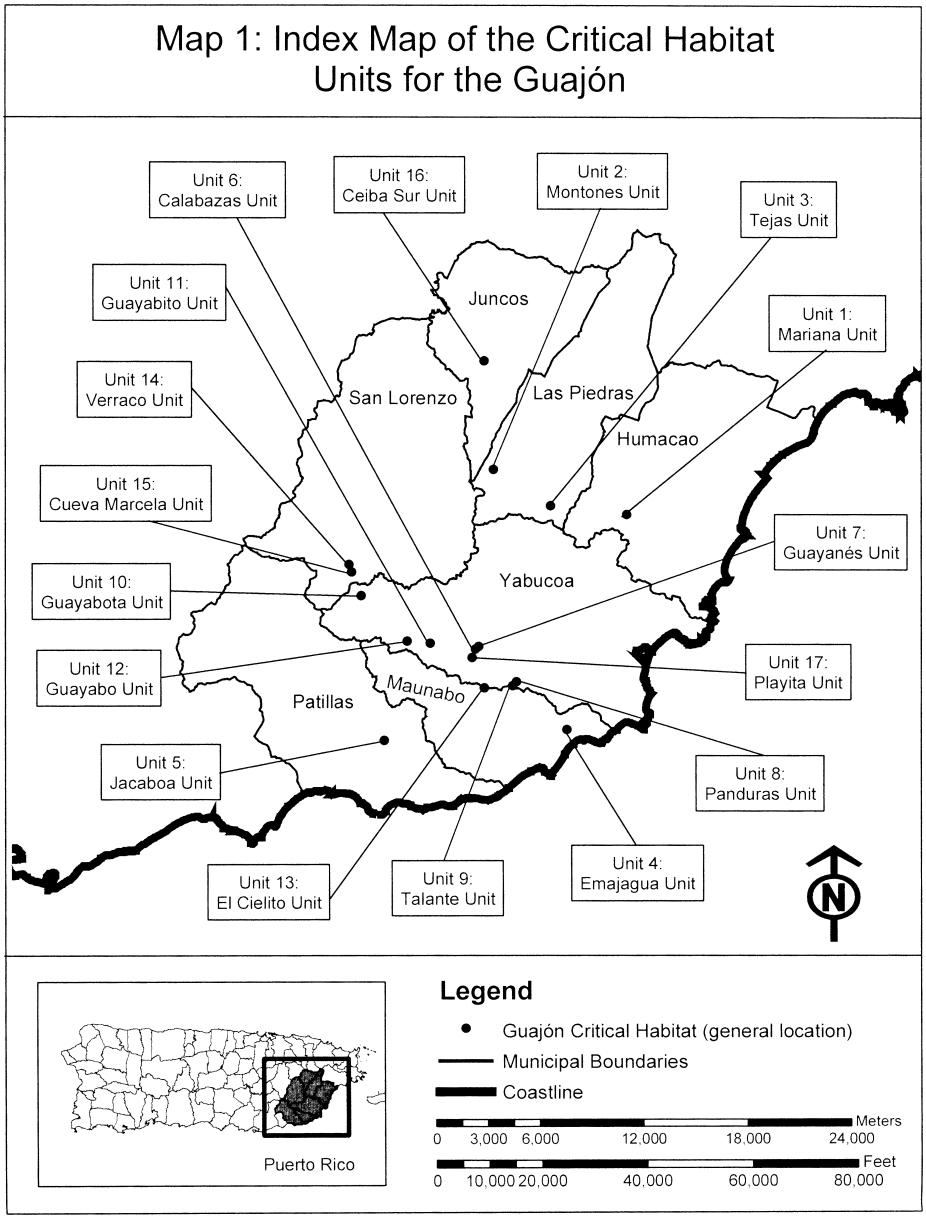
(ii) Plutonic, granitic, or sedimentary rocks/boulders that form caves, crevices, and grottoes (interstitial spaces) in a streambed, and that are in proximity, or connected, to a permanent, ephemeral, or subterranean clear-water stream or water source. The interstitial spaces between or underneath rocks 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.

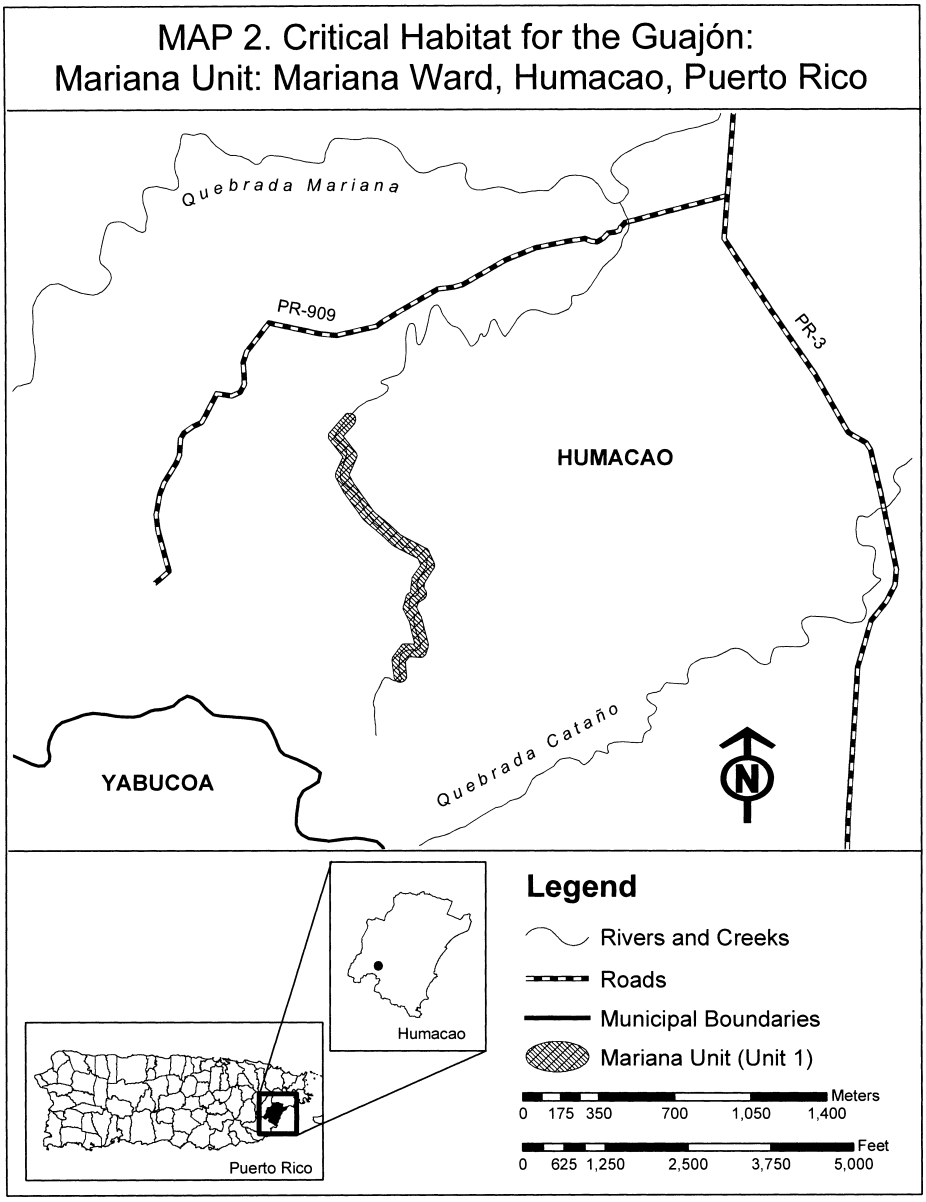
(5) Note: Index map (Map 1) follows:



(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.

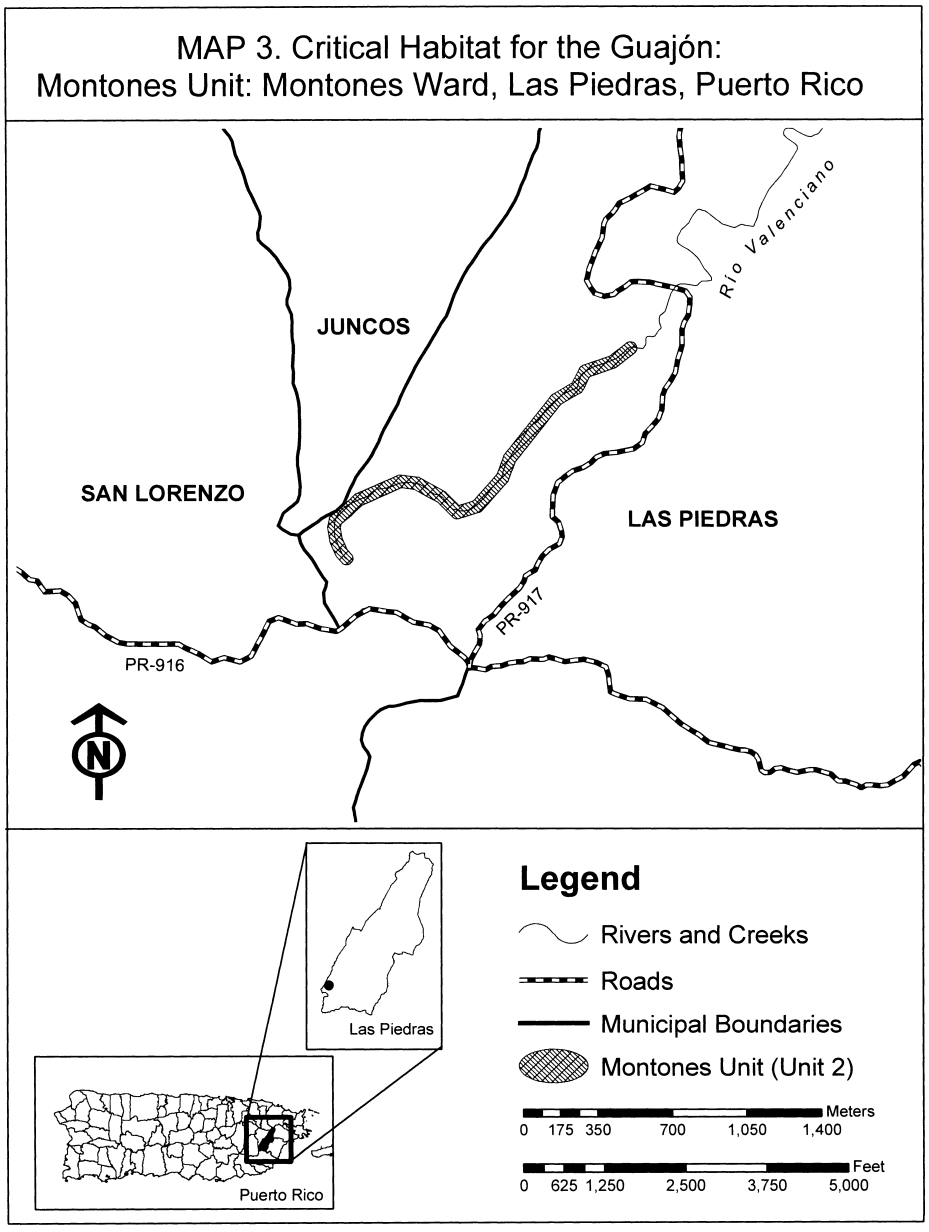
(ii) Map of Unit 1 (Map 2) follows:



(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.

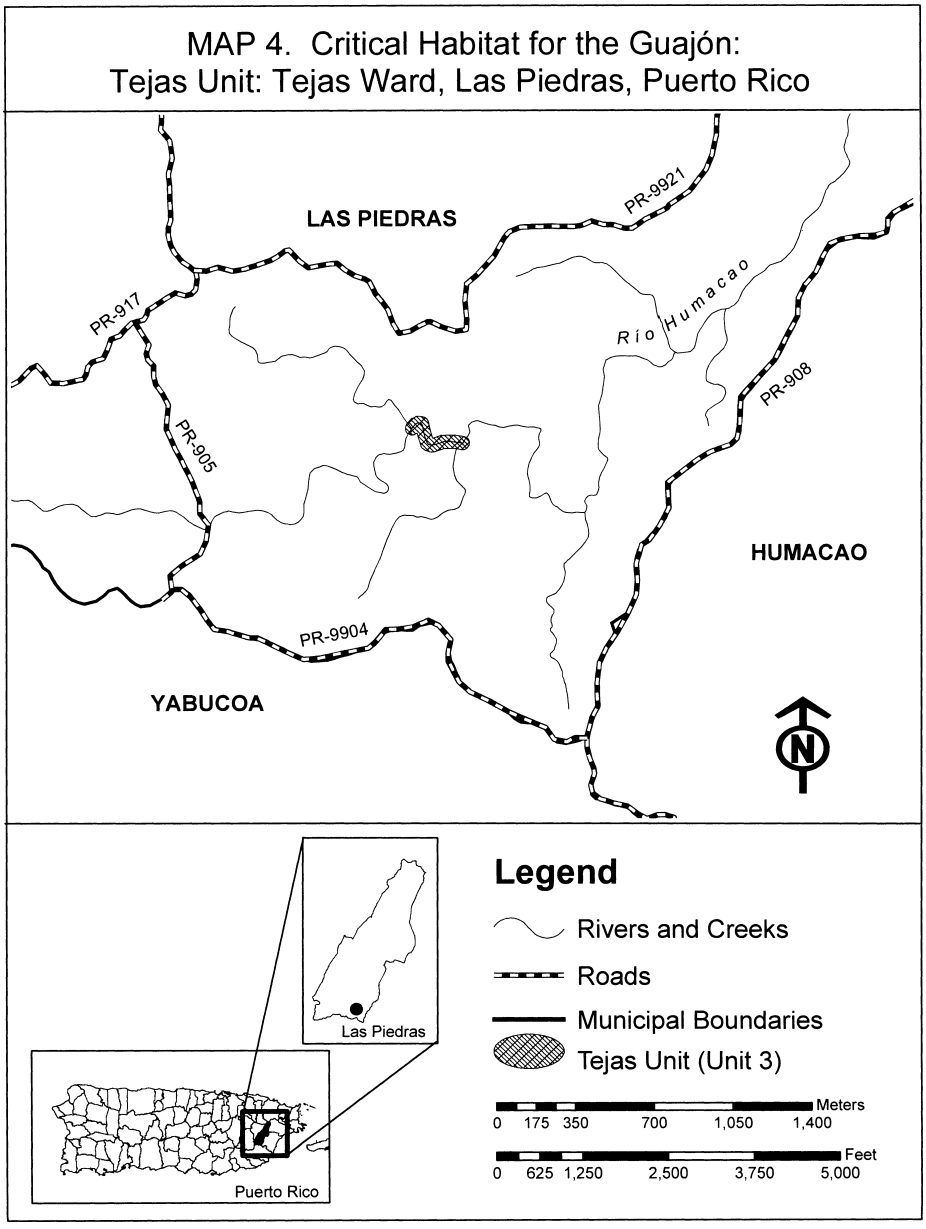
(ii) Map of Unit 2 (Map 3) follows:



(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.

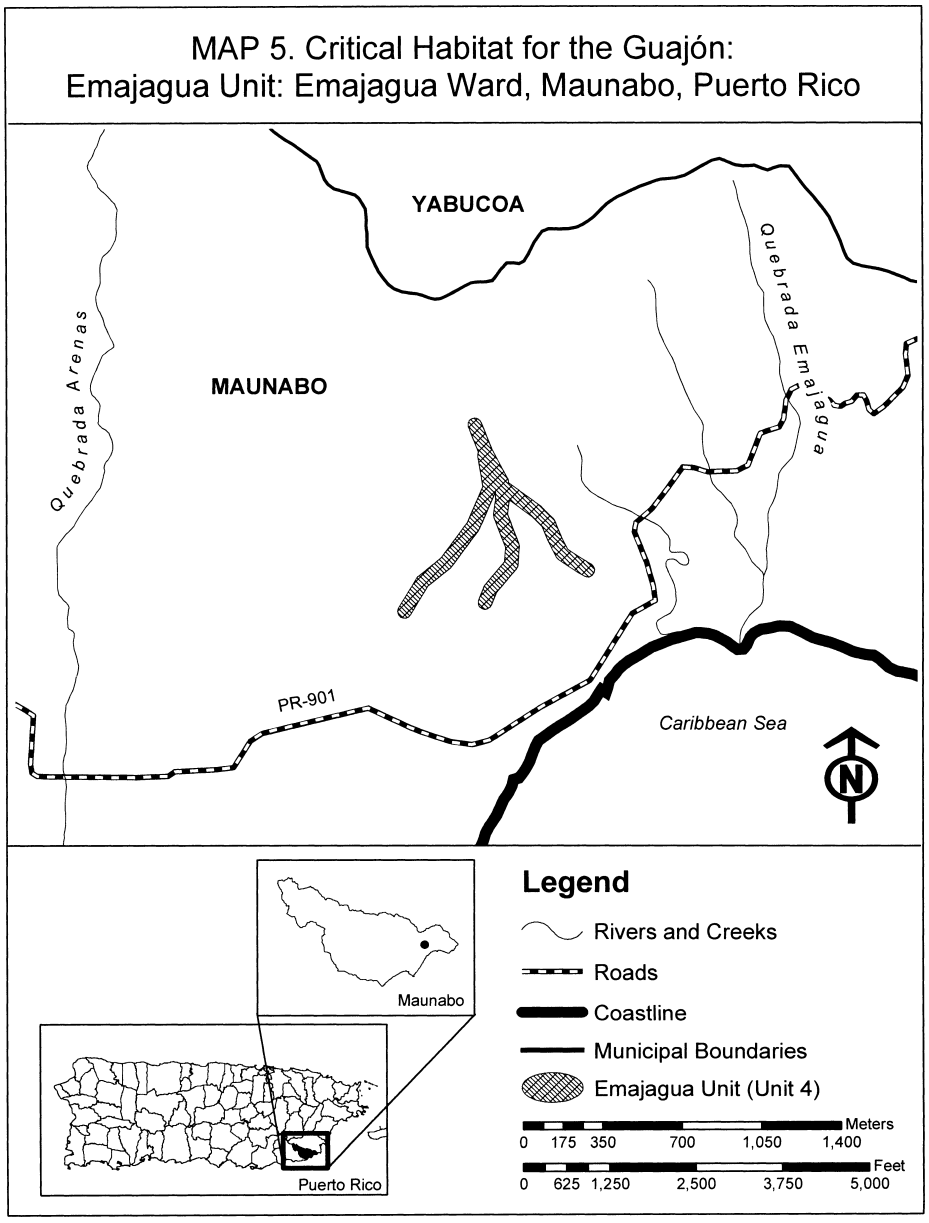
(ii) Map of Unit 3 (Map 4) follows:



(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.

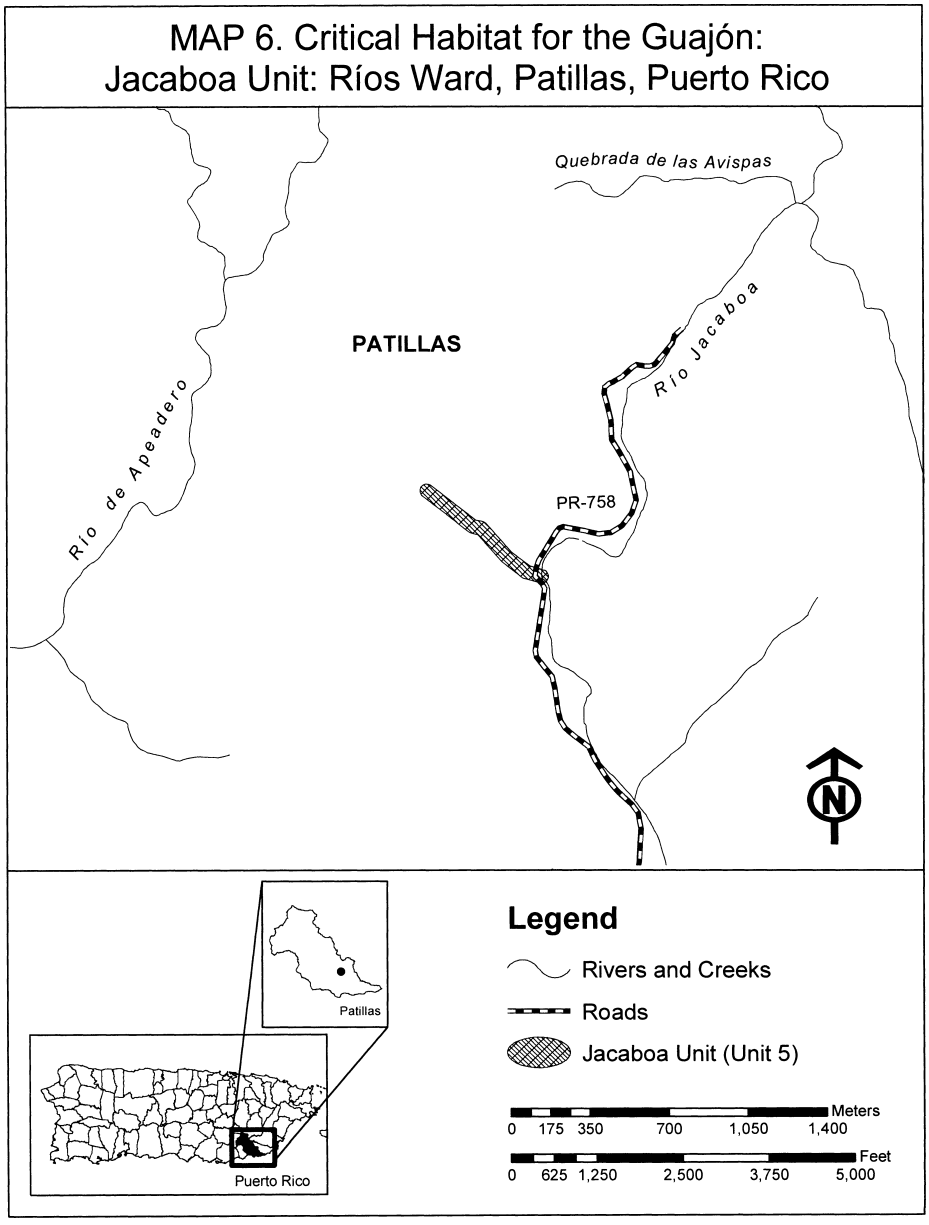
(ii) Map of Unit 4 (Map 5) follows:



(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) 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.

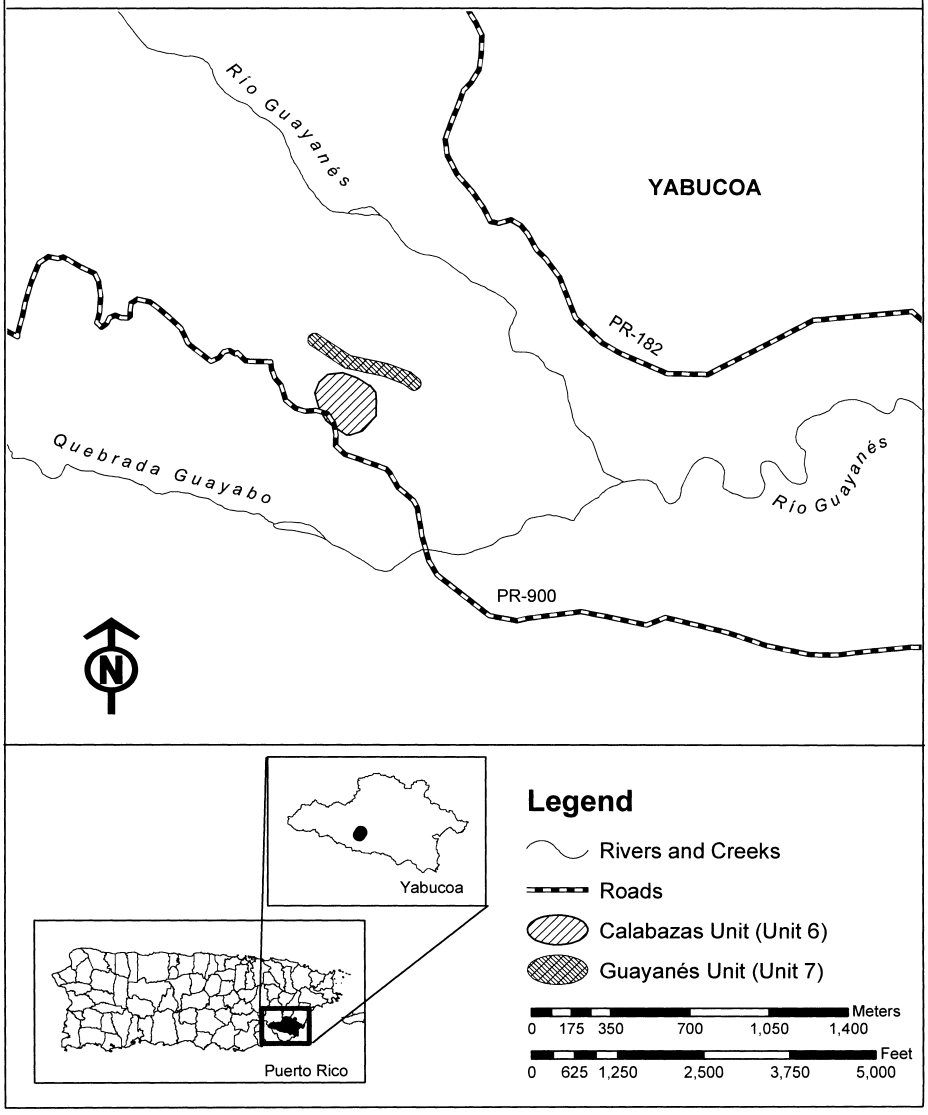
(ii) The map depicting Unit 6 is provided at paragraph (12)(ii) of this entry.

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

MAP 7. Critical Habitat for the Guajón: Calabazas and Guayanés Units: Calabazas Ward, Yabucoa, Puerto Rico



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

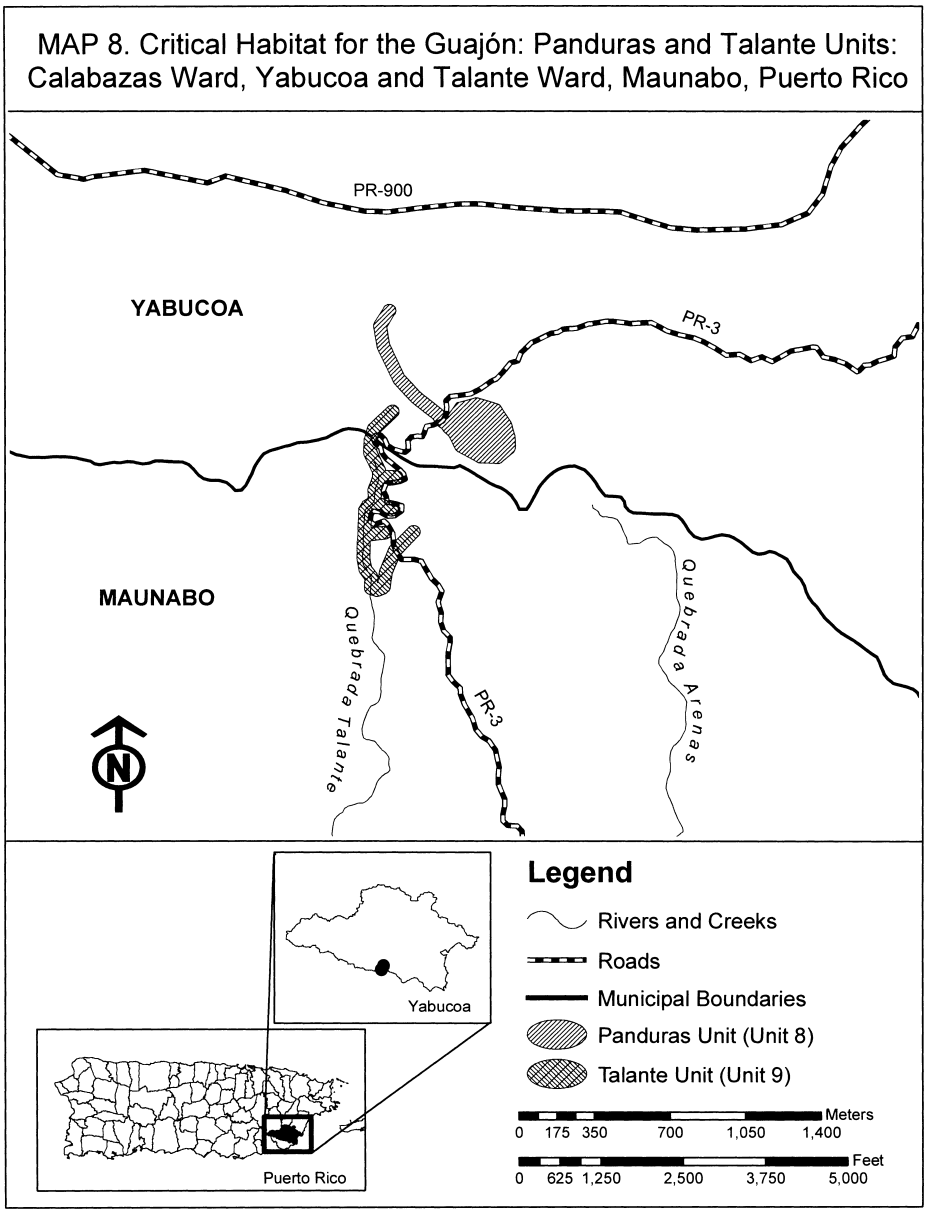
(i) *General Description:* Unit 8 consists of approximately 28.6 ac (11.6 ha) to the northwest and southeast of Road PR–3 within Calabazas Ward, Yabucoa, and 18.2 ac (7.4 ha) of lands owned by the Puerto Rico Conservation Trust near the top of Cerro La Pandura.

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

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

(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.

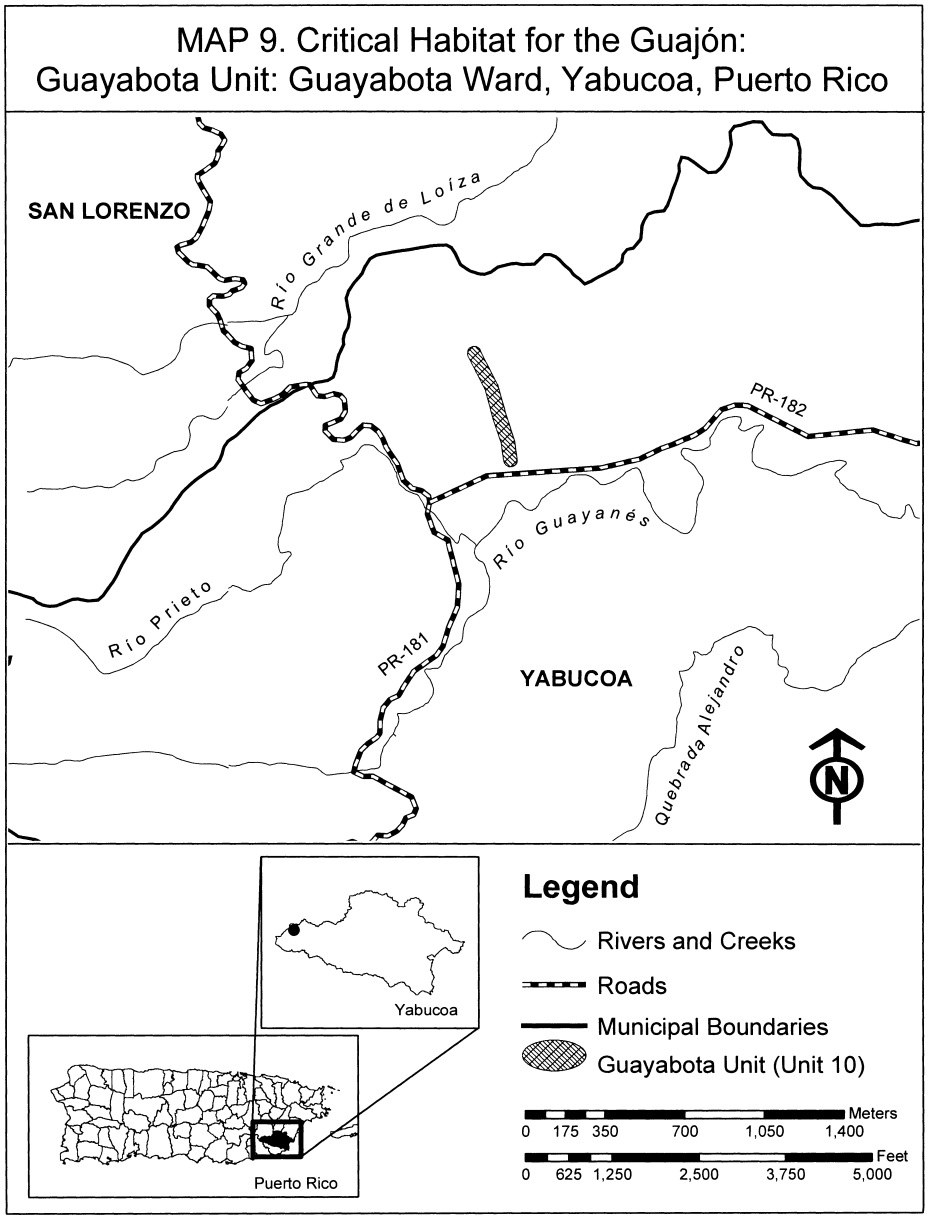
(ii) Map of Units 8 and 9 (Map 8) follows:



(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) 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.

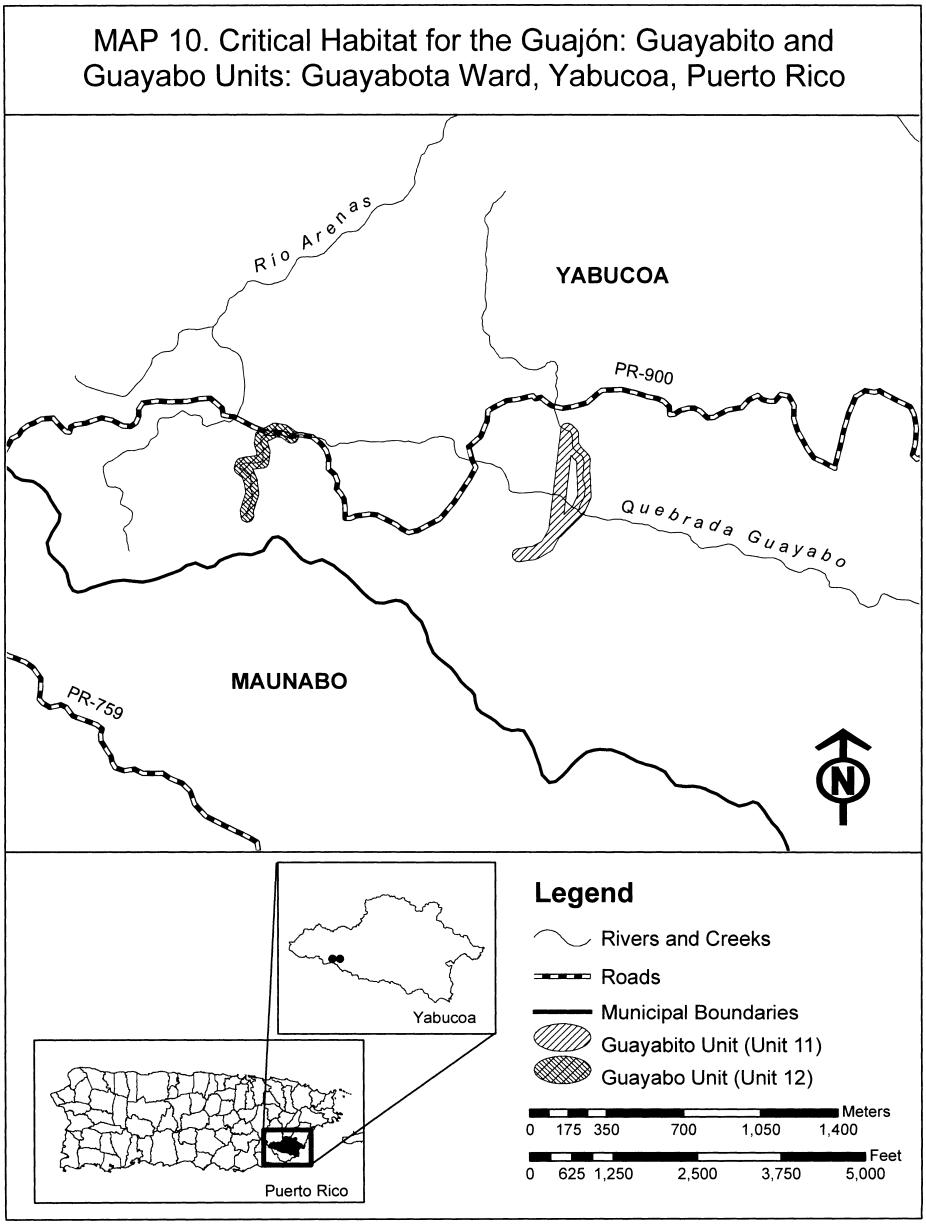
(ii) The map depicting Unit 11 is provided at paragraph (17)(ii) of this entry.

(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.

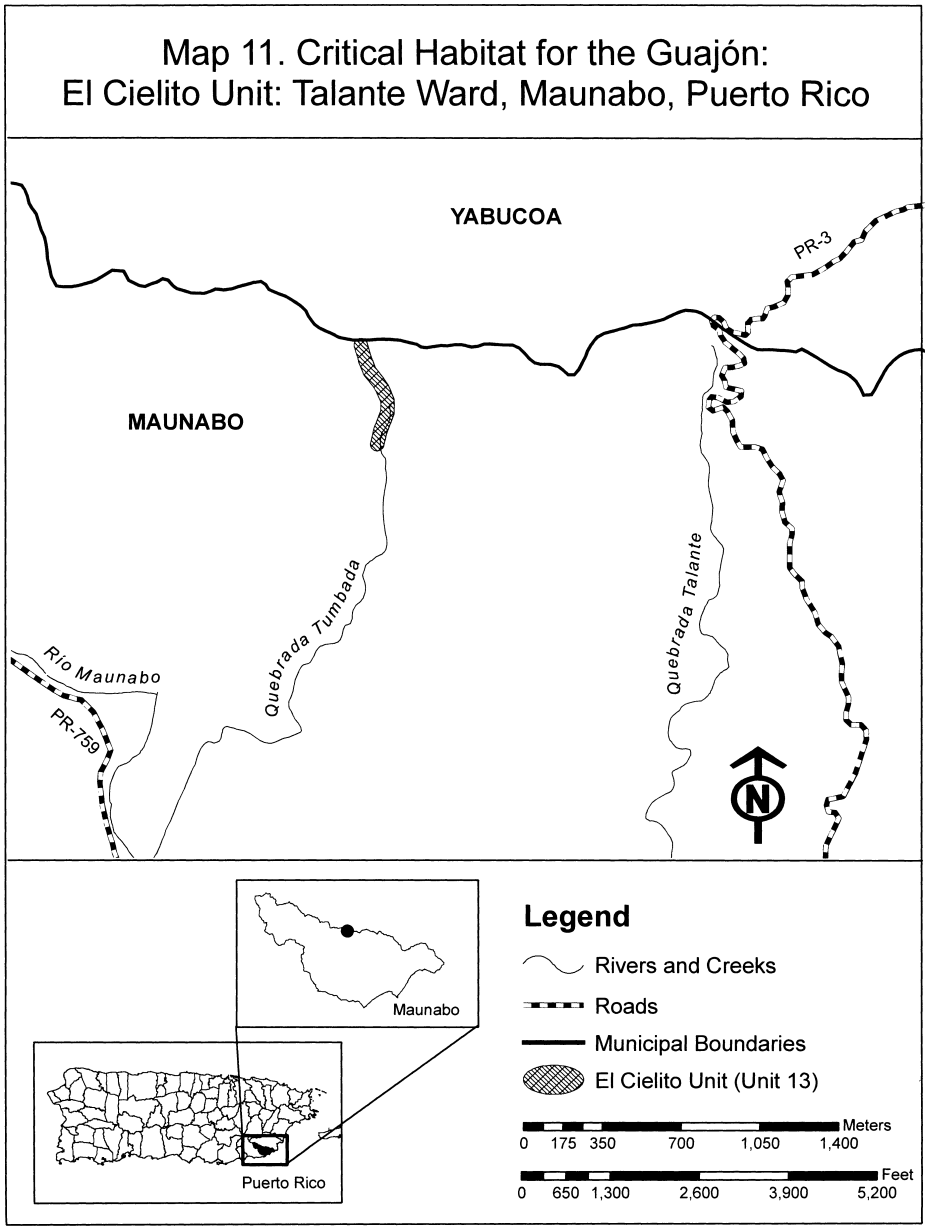
(ii) Map of Units 11 and 12 (Map 10) follows:



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



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

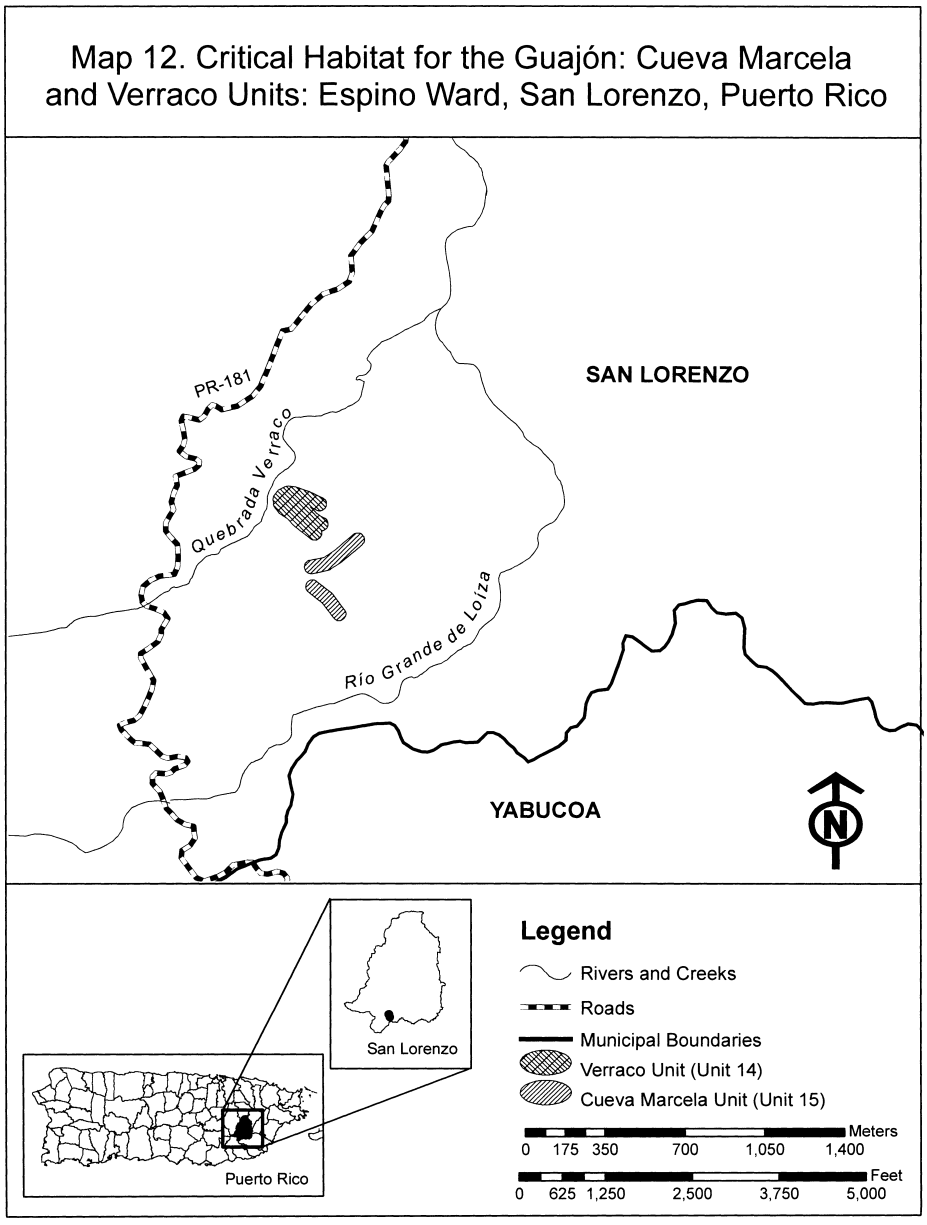
(i) *General Description:* Unit 14 consists of approximately 8.9 ac (3.6 ha), between PR–181 to the north and west, Río Grande de Loíza to the east and south, and the municipal boundary of Yabucoa to the south, within Espino Ward, San Lorenzo.

(ii) The map depicting Unit 14 is provided at paragraph (20)(ii) 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.

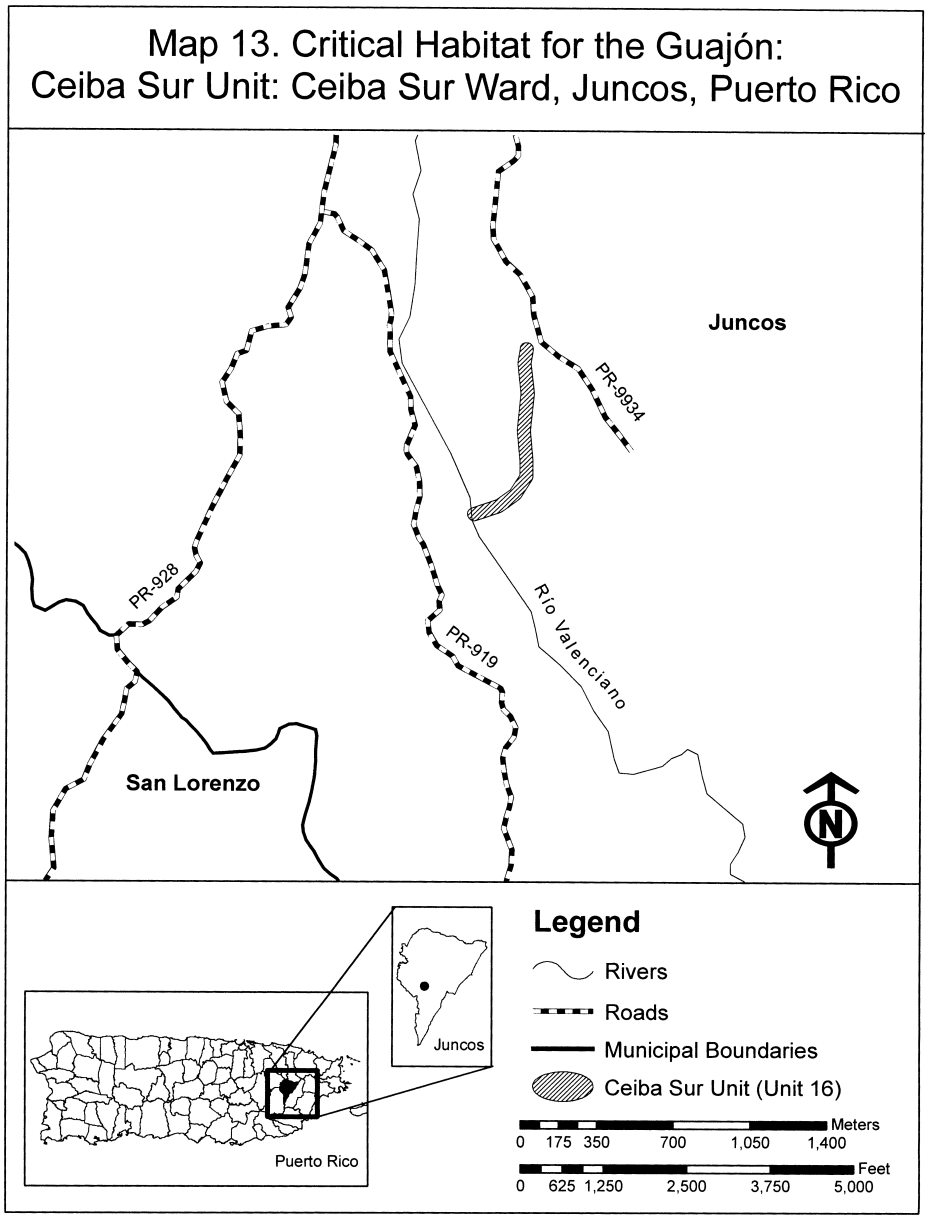
(ii) Map of Units 14 and 15 (Map 12) follows:



(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.

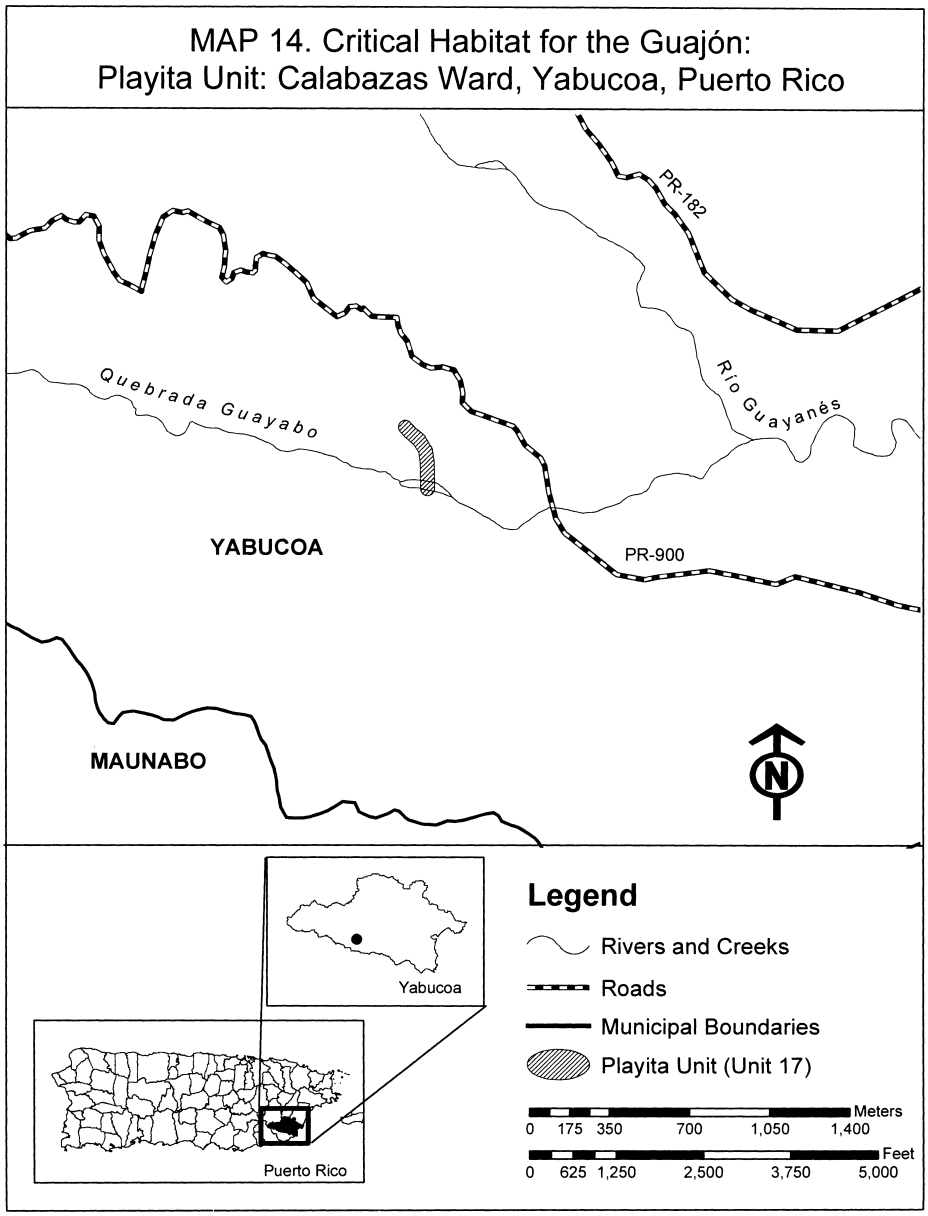
(ii) Map of Unit 16 (Map 13) follows:



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



AUSTIN BLIND SALAMANDER (*Eurycea waterlooensis*)

(1) The critical habitat unit is depicted for Travis County, Texas, on the map below.

(2) Within this area, the primary constituent elements (PCEs) of the physical or biological features essential to the conservation of Austin blind salamander consist of six components:

(i) Surface habitat PCEs.

(A) *Water from the Barton Springs Segment of the Edwards Aquifer.* The groundwater is

similar to natural aquifer conditions as it discharges from natural spring outlets. Concentrations of water quality constituents and contaminants are below levels that could exert direct lethal or sublethal effects (such as effects to reproduction, growth, development, or metabolic processes), or indirect effects (such as effects to the Austin blind salamander's prey base). Hydrologic regimes similar to the historical pattern of the specific sites are present, with constant surface flow. The water chemistry is similar to natural aquifer conditions, with temperatures from 67.8 to 72.3 °F (19.9 and 22.4 °C), dissolved oxygen concentrations from 5 to 7 mg L^{-1}, and specific water conductance from 605 to 740 µS cm^{-1}.

(B) *Rocky substrate with interstitial spaces.* Rocks in the substrate of the salamander's surface aquatic habitat are large enough to provide salamanders with cover, shelter, and foraging habitat (larger than 2.5 in (64 mm)). The substrate and interstitial spaces have minimal sedimentation.

(C) *Aquatic invertebrates for food.* The spring environment supports a diverse aquatic invertebrate community that includes crustaceans, insects, and flatworms.

(D) *Subterranean aquifer.* Access to the subsurface water table exists to provide shelter, protection, and space for reproduction. This access can occur in the form of large conduits that carry water to the spring outlet or fissures in the bedrock.

(ii) Subsurface habitat PCEs.

(A) *Water from the Barton Springs Segment of the Edwards Aquifer.* The groundwater is similar to natural aquifer conditions. Concentrations of water quality constituents and contaminants are below levels that could exert direct lethal or sublethal effects (such as effects to reproduction, growth, development, or metabolic processes), or indirect effects (such as effects to the Austin blind salamander's prey base). Hydrologic regimes similar to the historical pattern of the specific sites are present, with continuous flow in the subterranean habitat. The water chemistry is similar to natural aquifer conditions, including temperature, dissolved oxygen, and specific water conductance.

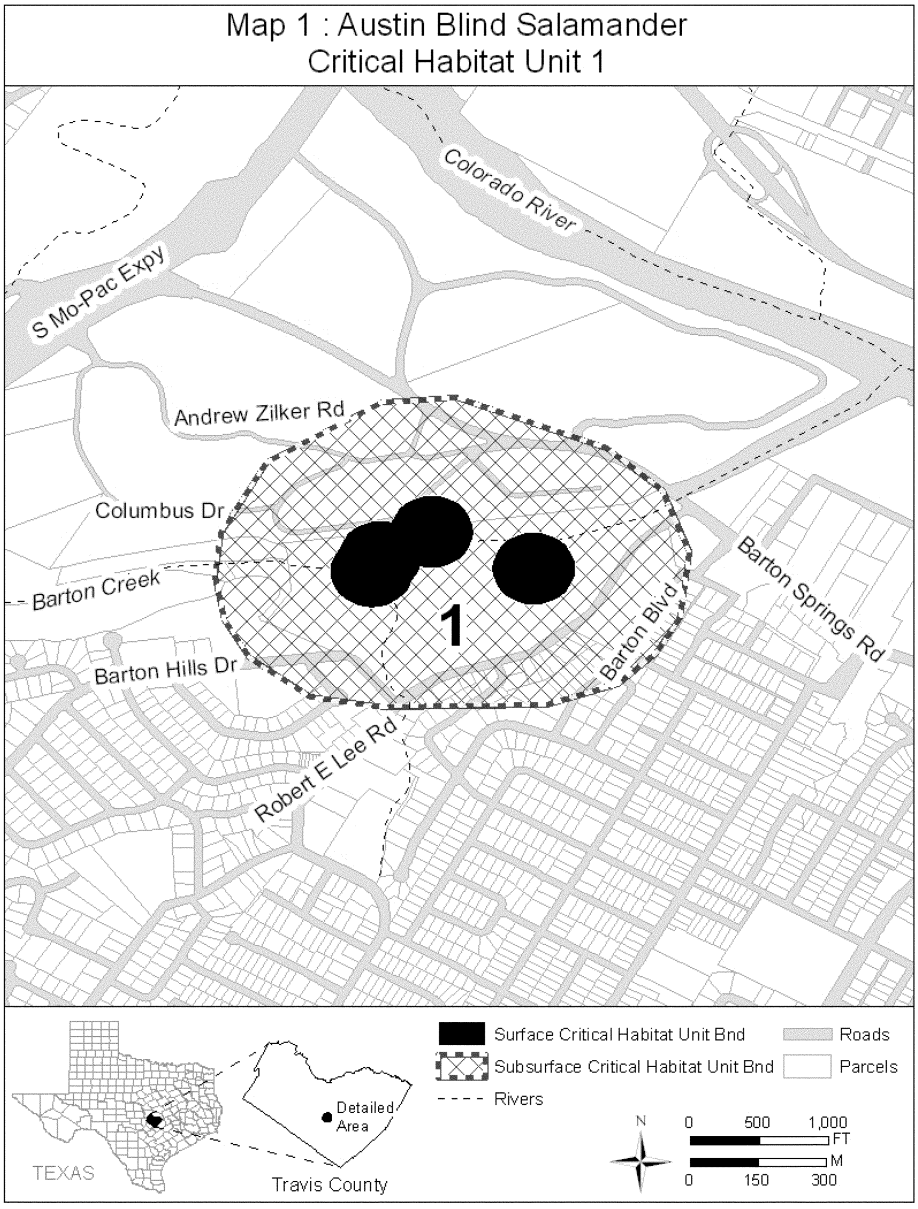
(B) *Subsurface spaces.* Conduits underground are large enough to provide salamanders with cover, shelter, and foraging habitat.

(C) *Aquatic invertebrates for food.* The habitat supports an aquatic invertebrate community that includes crustaceans, insects, or flatworms.

(3) Surface critical habitat includes the spring outlets and outflow up to the high water line and 262 ft (80 m) of upstream and downstream habitat, including the dry stream channel during periods of no surface flow. The surface critical habitat does not include manmade structures (such as buildings, aqueducts, runways, roads, and other paved areas) existing within the legal boundaries on the effective date of this rule; however, the subsurface critical habitat may extend below such structures. The subsurface critical habitat includes underground features in a circle with a radius of 984 ft (300 m) around the springs.

(4) *Critical habitat map units.* Data layers defining map units were created using a geographic information system (GIS), which included species locations, roads, property boundaries, 2011 aerial photography, and USGS 7.5′ quadrangles. Points were placed on the GIS. We delineated critical habitat unit boundaries by starting with the cave or spring point locations that are occupied by the salamanders. From these cave or springs points, we delineated a circle with a 984-ft (300-m) radius to create the polygons that capture the extent to which we believe the salamander populations exist through underground conduits. The polygons were then simplified to reduce the number of vertices, but still retain the overall shape and extent. Subsequently, polygons that were within 98 ft (30 m) of each other were merged together. Each new merged polygon was then revised to remove extraneous divots or protrusions that resulted from the merge process. The maps in this entry, as modified by any accompanying regulatory text, establish the boundaries of the critical habitat designation. The coordinates or plot points or both on which each map is based are available to the public at the field office Internet site (*http://www.fws.gov/southwest/es/AustinTexas/*), *www.regulations.gov* at Docket No. FWS–R2–ES–2013–0001 and at the Service's Austin Ecological Services Field Office. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2.

(5) Unit 1: Barton Springs Unit, Travis County, Texas. Map of Unit 1 follows:


Map 1 : Austin Blind Salamander
Critical Habitat Unit 1
Colorado River
S Mo-Pac Expy
Andrew Zilker Rd
Columbus Dr
Barton Creek
Barton Hills Dr
Robert E Lee Rd
Barton Blvd
Barton Springs Rd
1
Surface Critical Habitat Unit Bnd
Subsurface Critical Habitat Unit Bnd
Rivers
Roads
Parcels
N
0 500 1,000
FT
0 150 300
M
TEXAS
Detailed Area
Travis County

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).

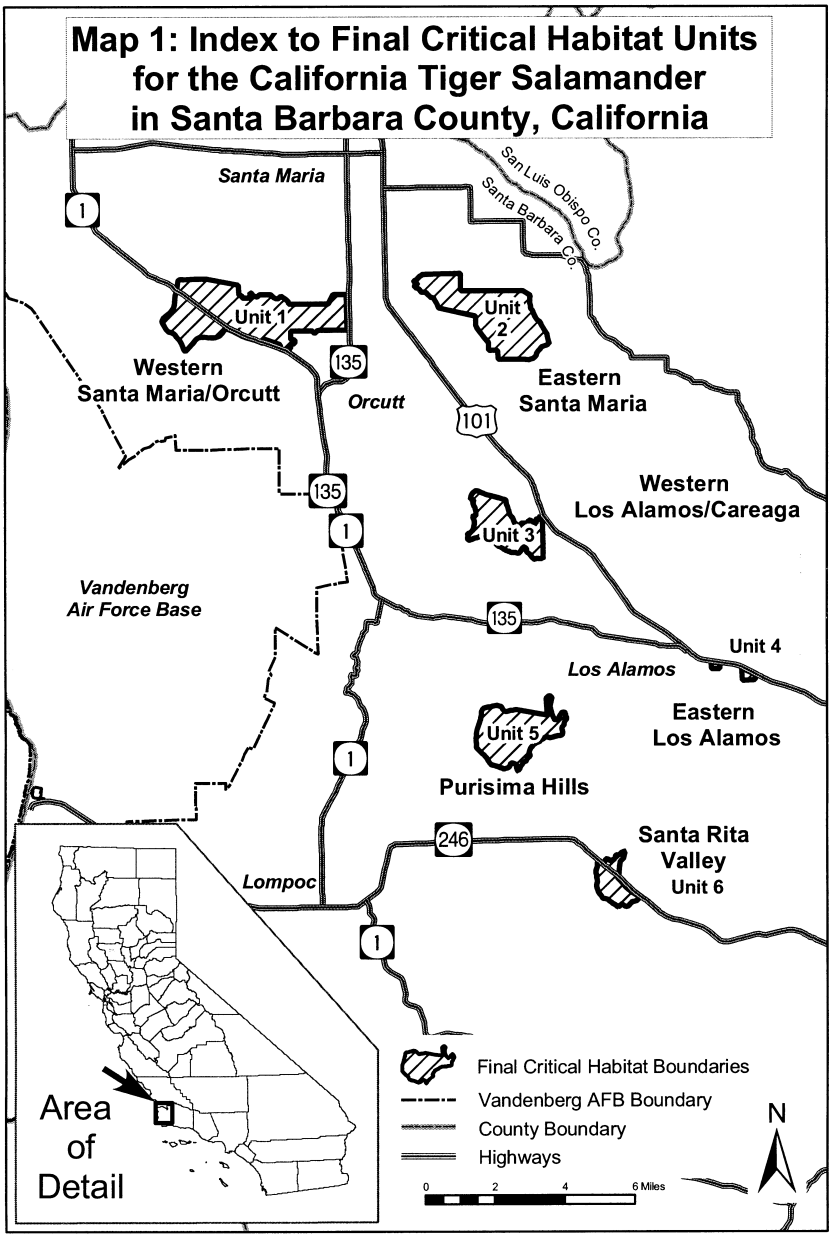
(ii) Barrier-free uplands adjacent to breeding ponds that contain small mammal burrows, including but not limited to burrows created by the California ground squirrel (*Spermophilus beecheyi*) and Botta's pocket gopher (*Thommomys bottae*). Small mammals are essential in creating the underground habitat 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).

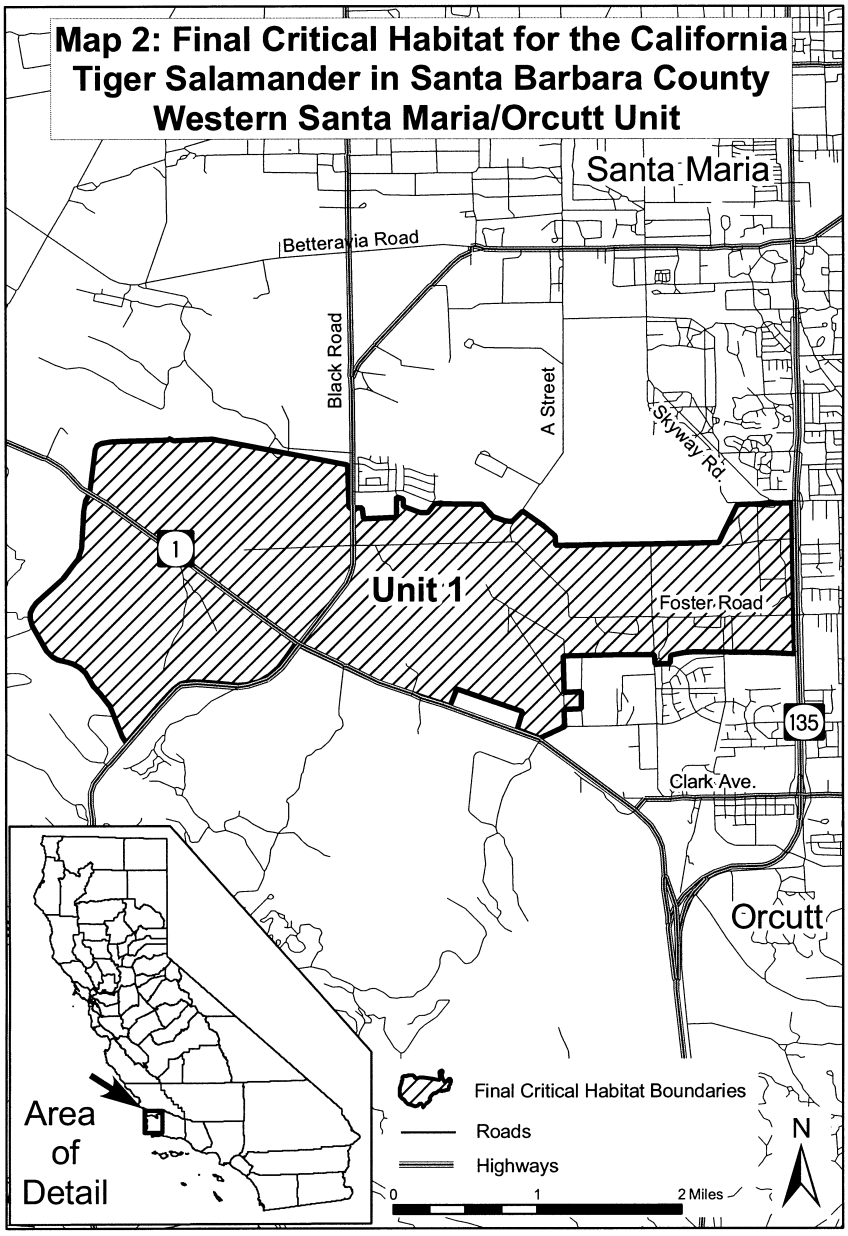
(5) Note: Map 1 (Index map) follows:



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

(i) [Reserved]

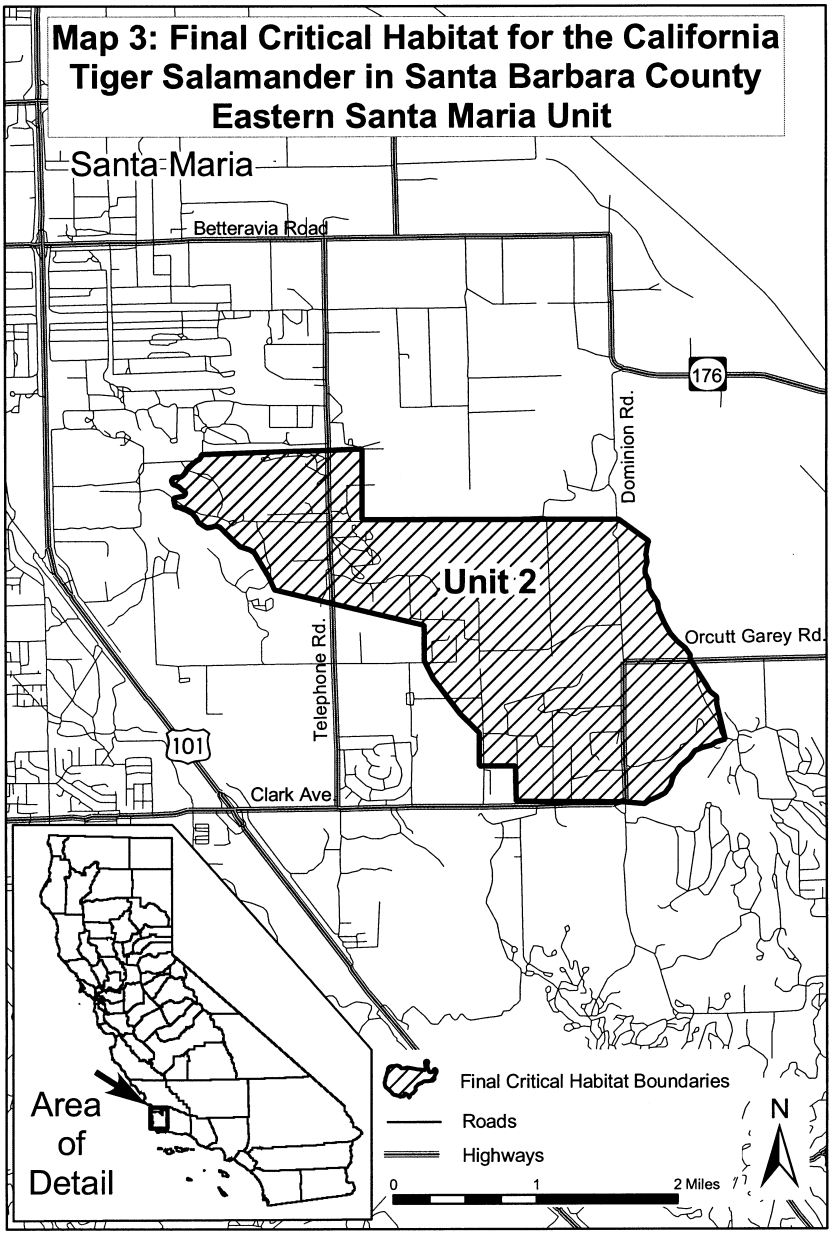
(ii) Unit 1 (Map 2) follows:



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

(i) [Reserved]

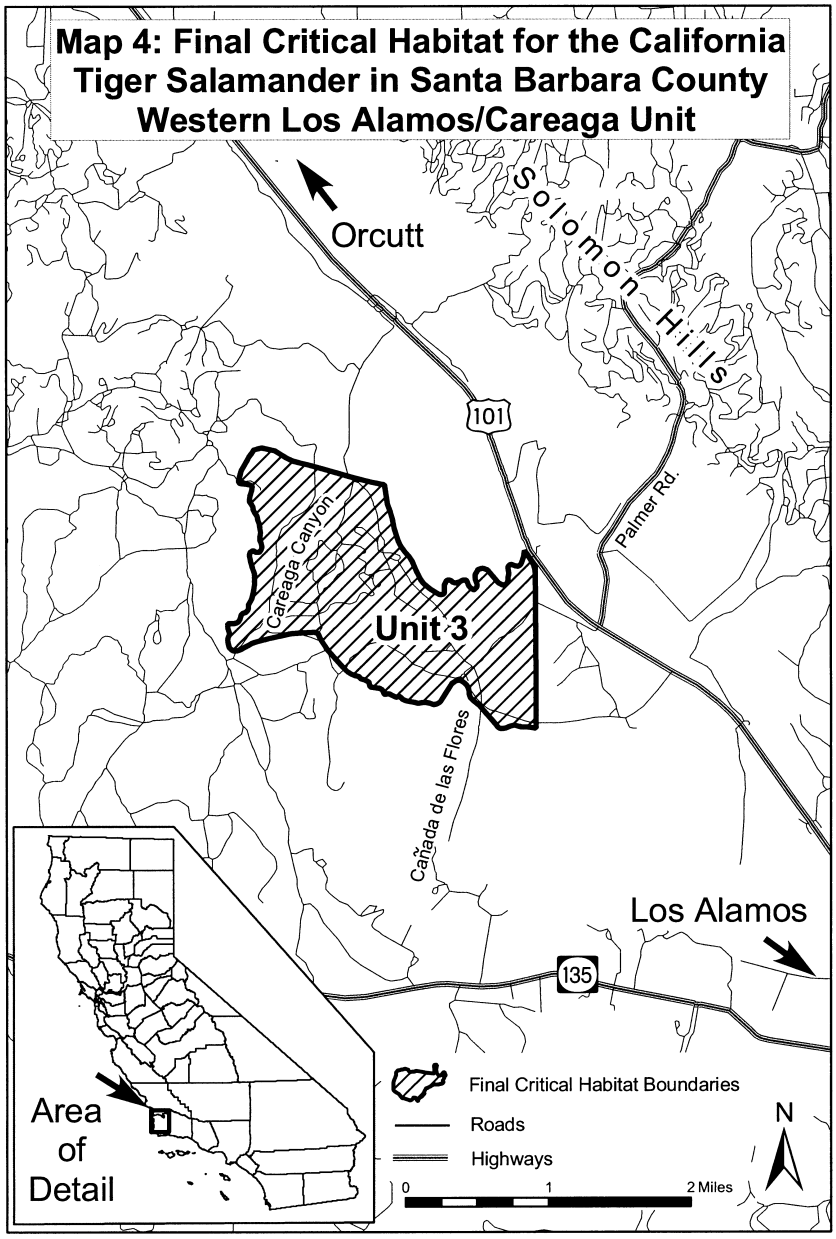
(ii) Unit 2 (Map 3) follows:



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

(i) [Reserved]

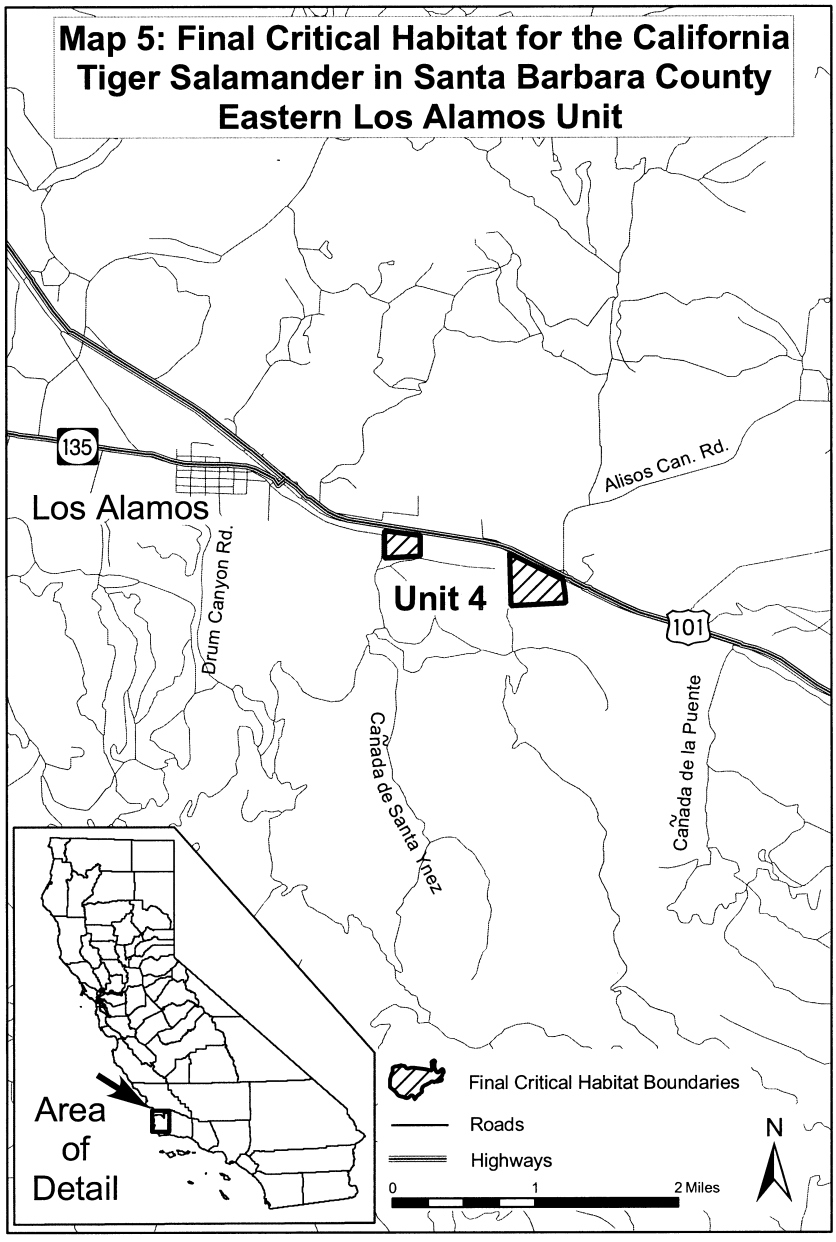
(ii) Unit 3 (Map 4) follows:



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

(i) [Reserved]

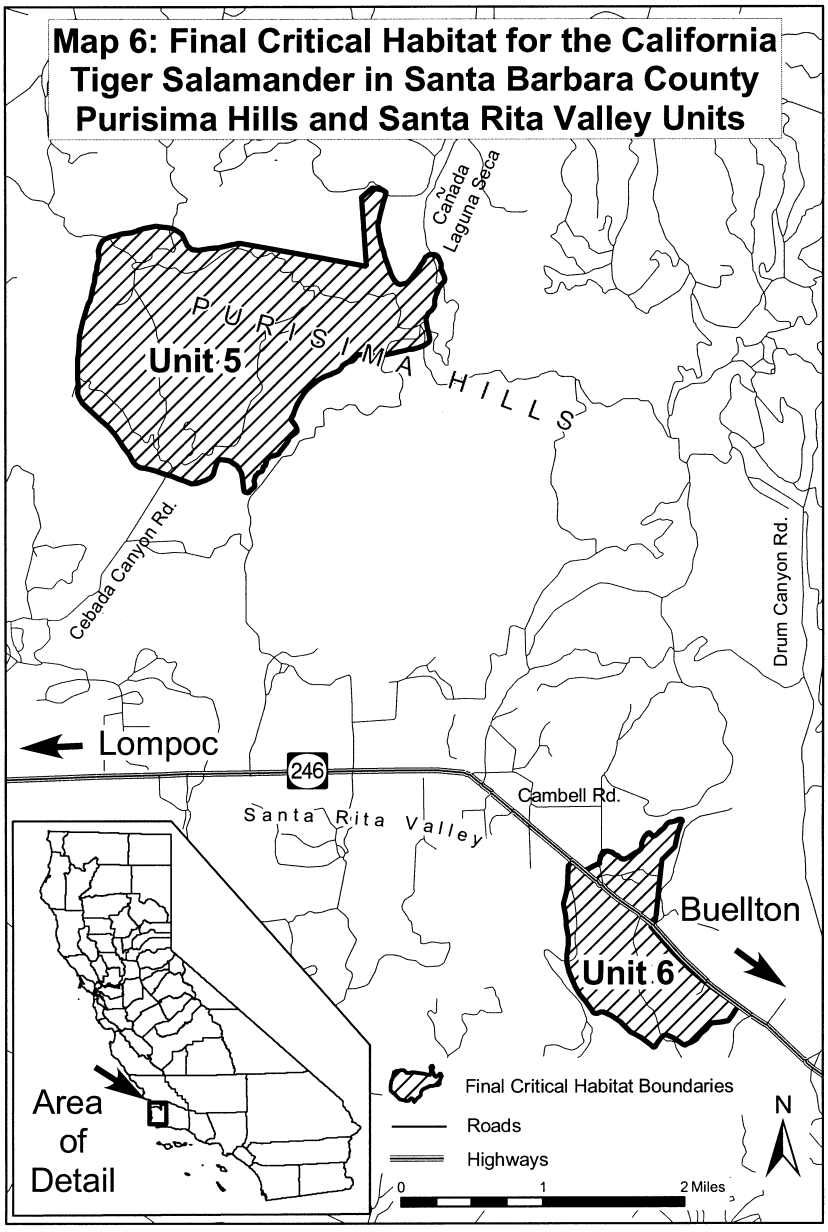
(ii) Unit 4 (Map 5) follows:



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

(i) [Reserved]

(ii) 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;

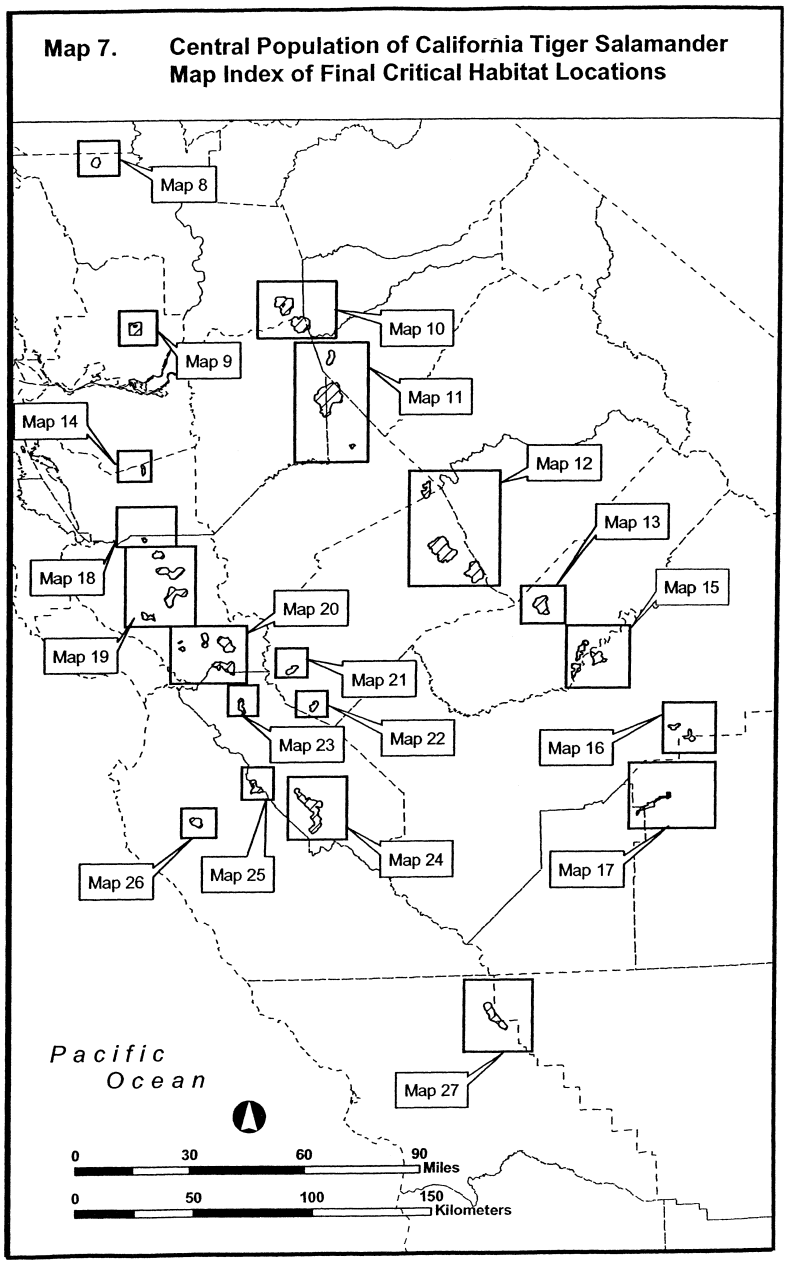
(ii) Upland habitats adjacent and accessible to and from breeding ponds that contain small mammal burrows or other underground habitat that CTS depend upon for food, shelter, and protection from the elements and predation; and

(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.

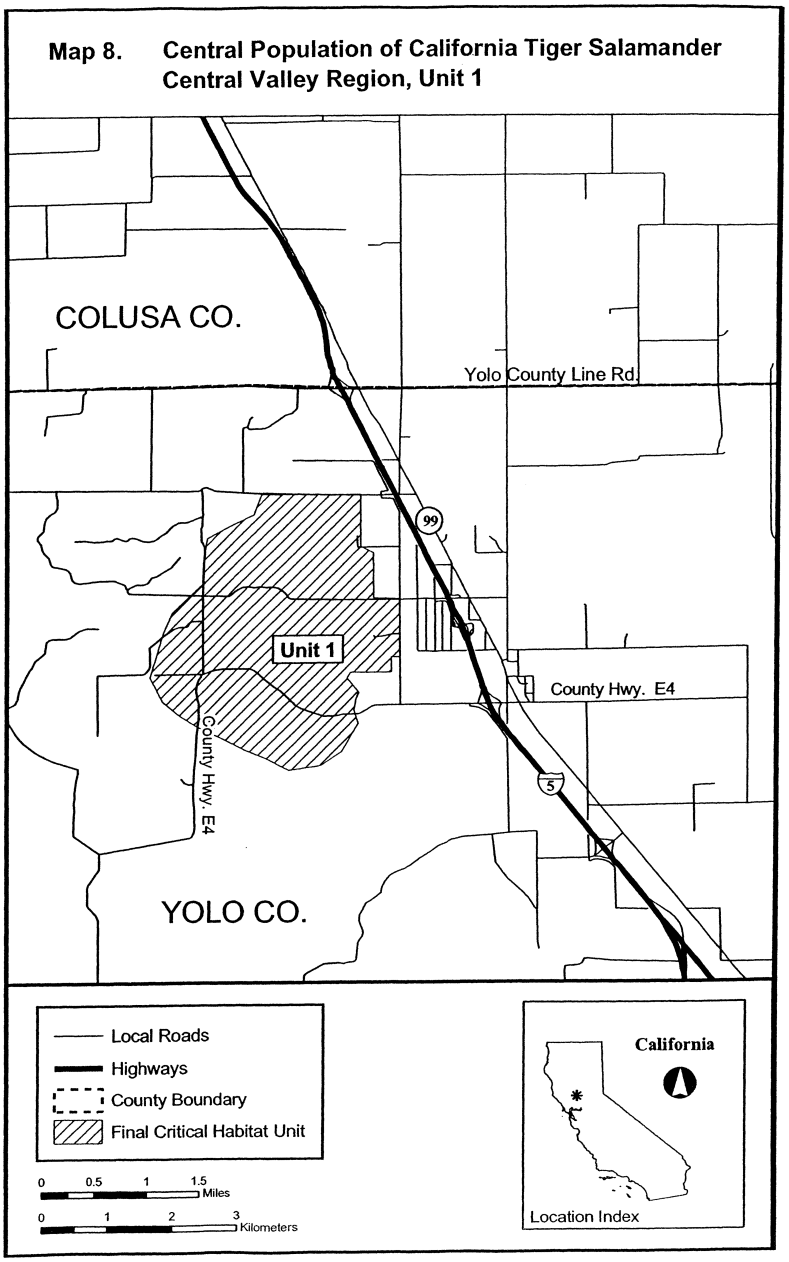
(15) Note: Map 7 (Index map) follows:



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

(i) [Reserved]

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

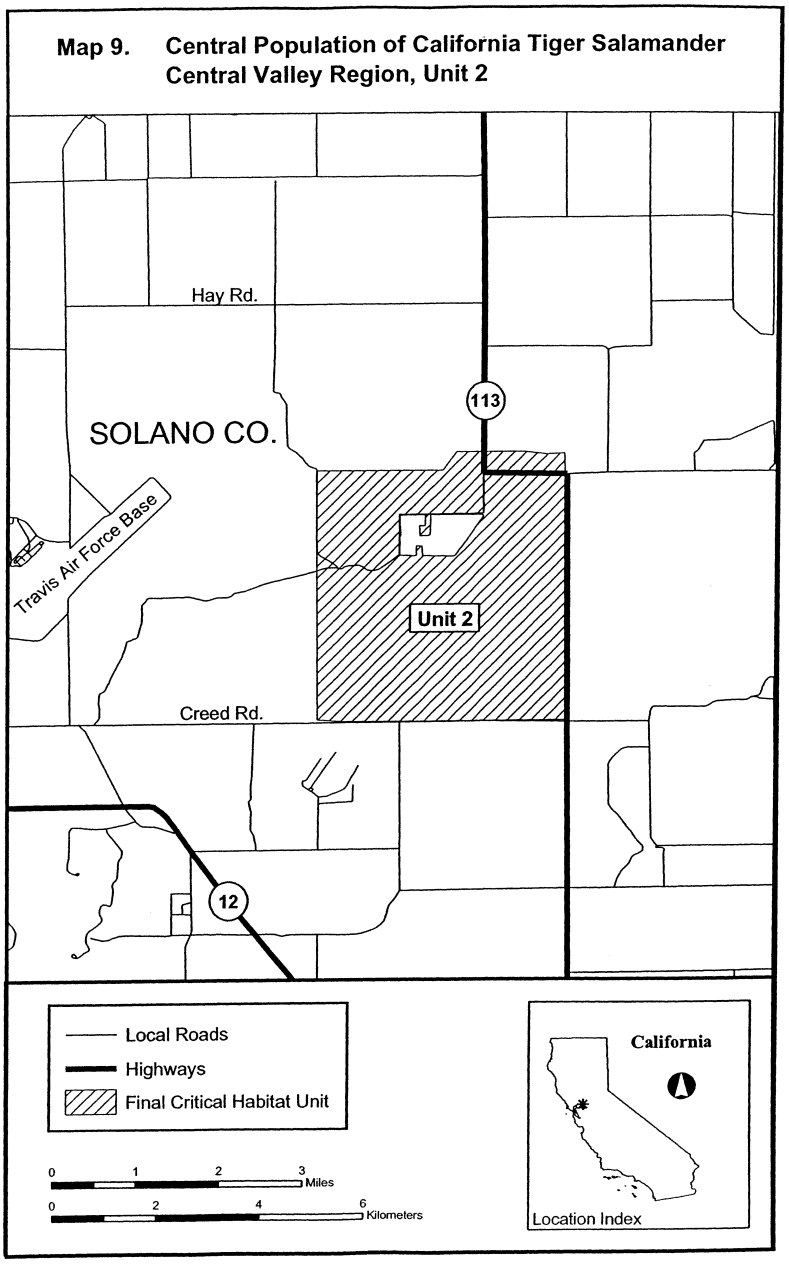


(17) Central Valley Region: Unit 2, Solano County, California.

(i) Central Valley Region: Unit 2 excludes land bounded by the following UTM Zone 10, NAD83 coordinates (E, N): 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) Map 9 (Central Valley Region, Unit 2) follows:



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

(i) Central Valley Region: Unit 3 excludes land bounded by the following UTM Zone 10, NAD83 coordinates (E, N):

(A) 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; returning to 663699, 4245563.

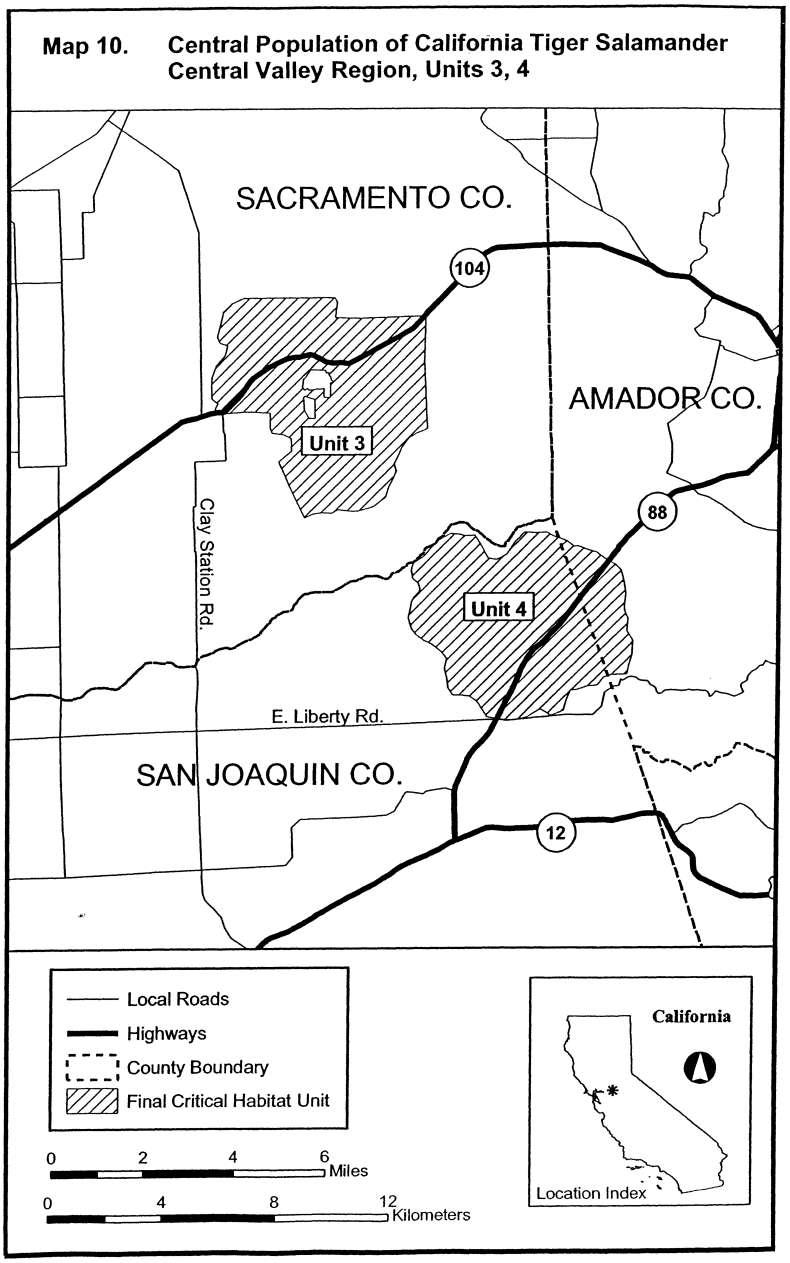
(B) 663893, 4245225; 663790, 4245261; 663740, 4245213; 663759, 4244776; 663937, 4244476; 664146, 4244482; 664133, 4245143; returning to 663893, 4245225.

(ii) 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) [Reserved]

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



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

(i) [Reserved]

(ii) 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.

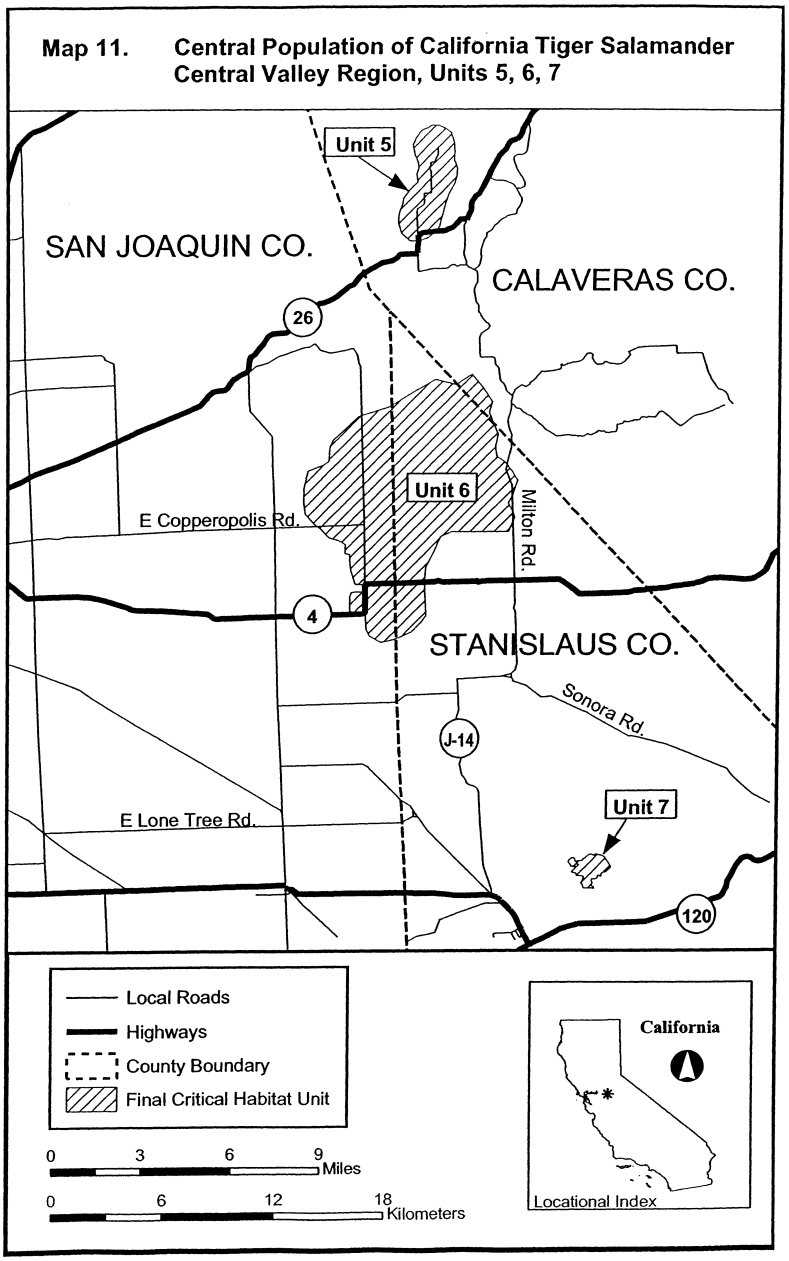
(i) [Reserved]

(ii) 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) [Reserved]

(ii) 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) [Reserved]

(ii) 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.

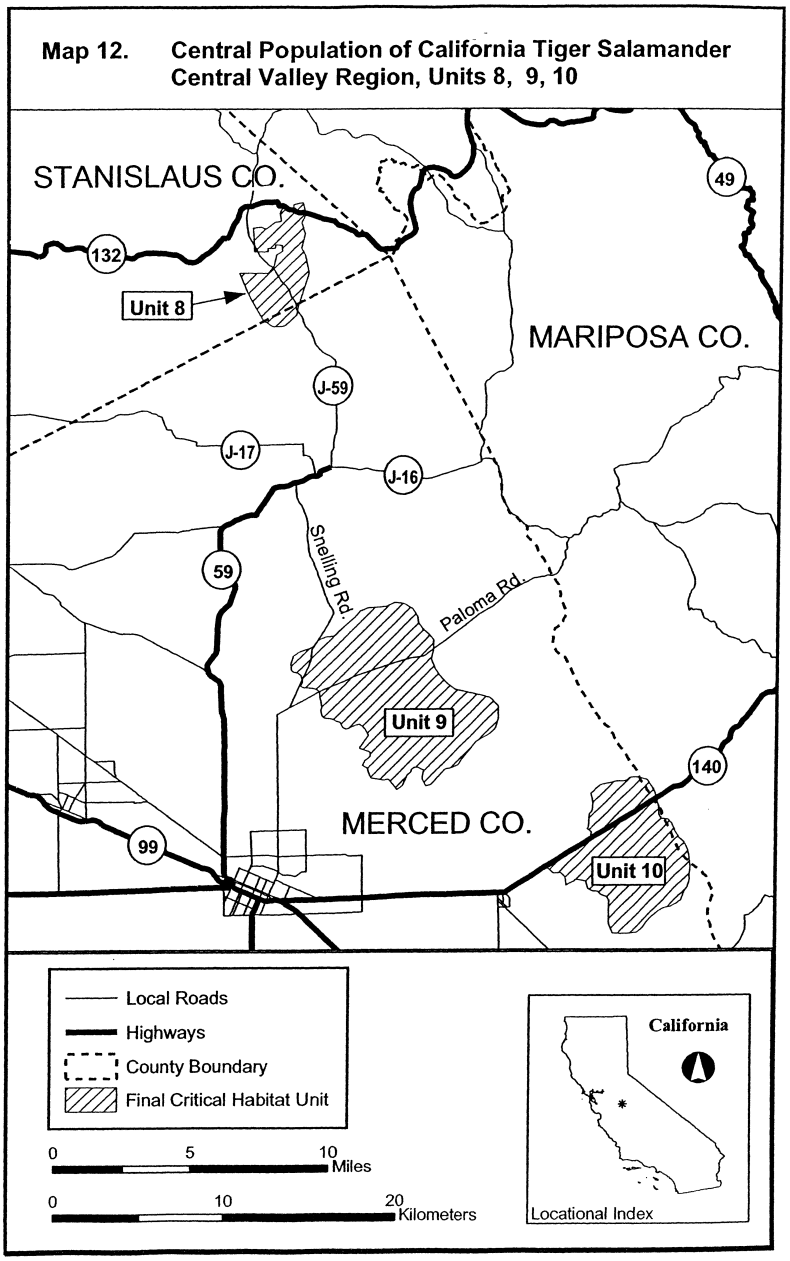
(i) [Reserved]

(ii) 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) [Reserved]

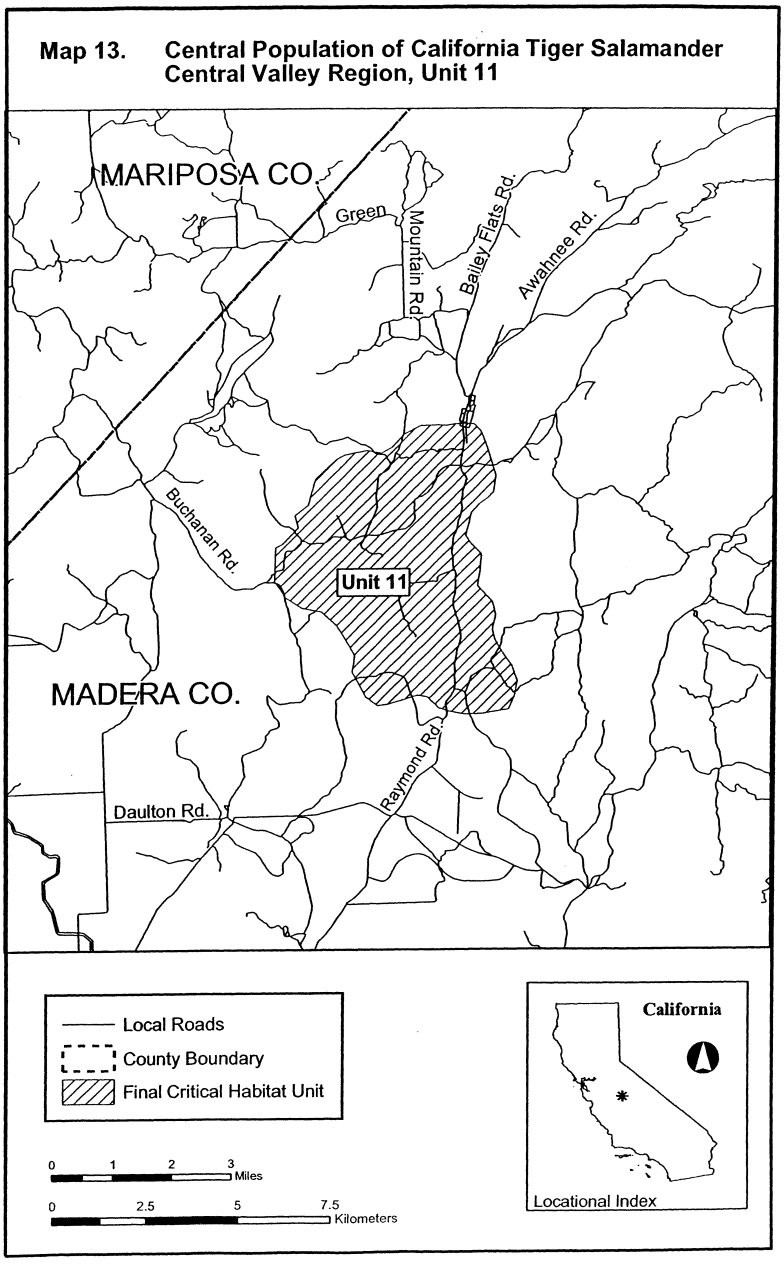
(ii) Central Valley Region, Unit 10 is depicted on Map 12—Units 8, 9, and 10—which follows:



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

(i) [Reserved]

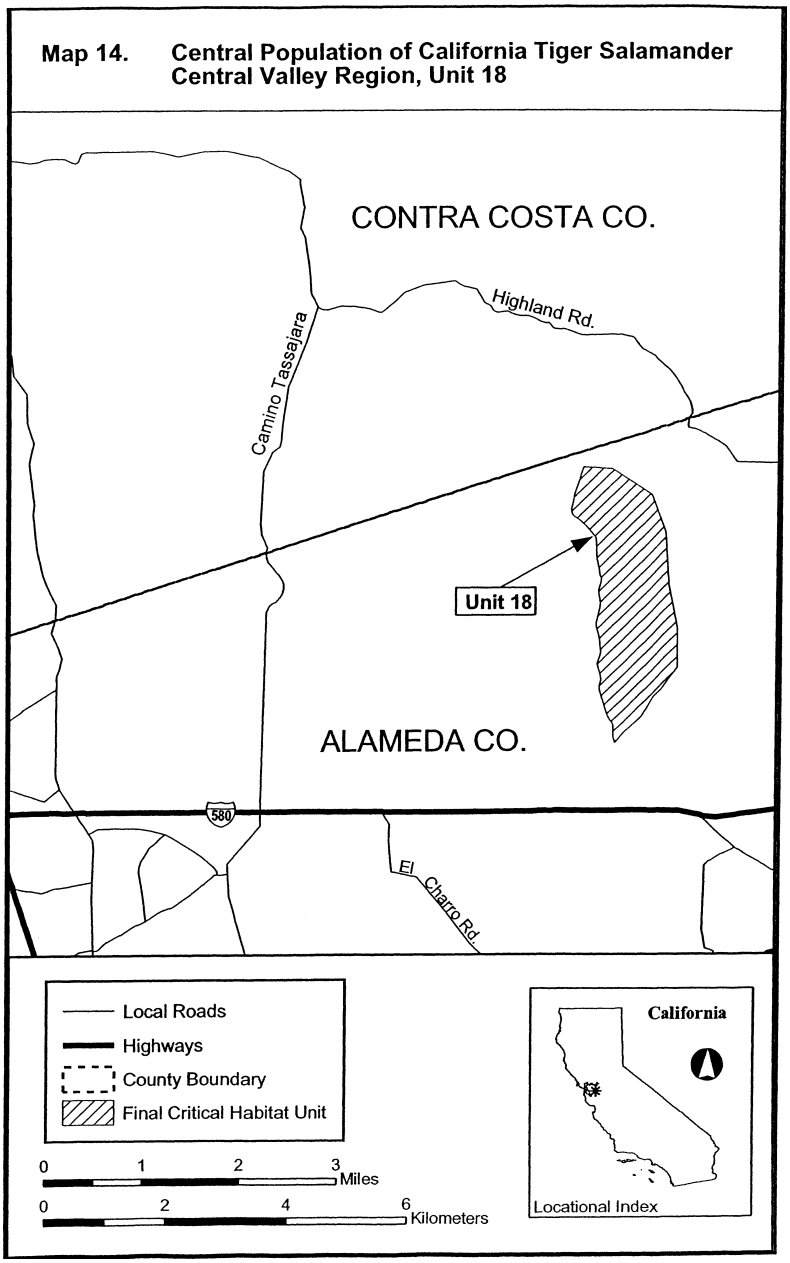
(ii) Map 13 (Central Valley Region, Unit 11) follows:



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

(i) [Reserved]

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



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

(i) [Reserved]

(ii) 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.

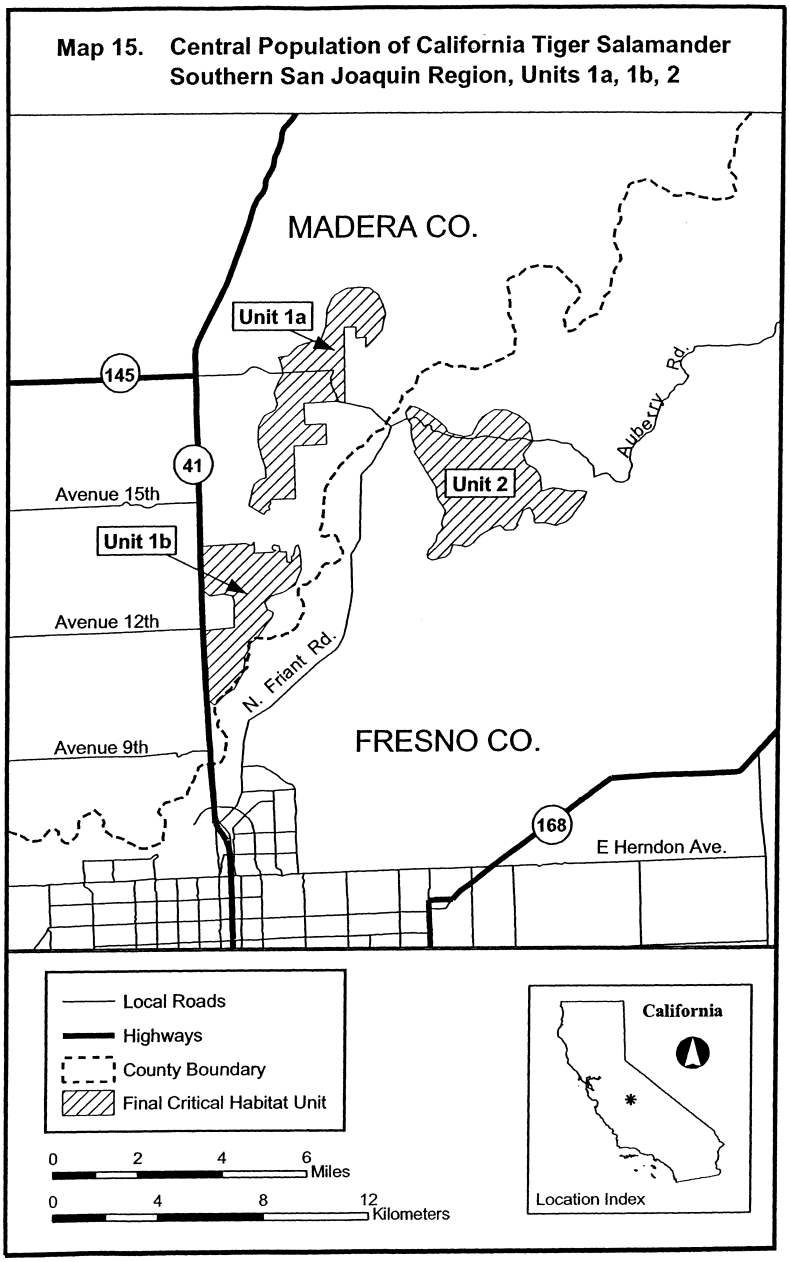
(i) [Reserved]

(ii) 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) [Reserved]

(ii) 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.

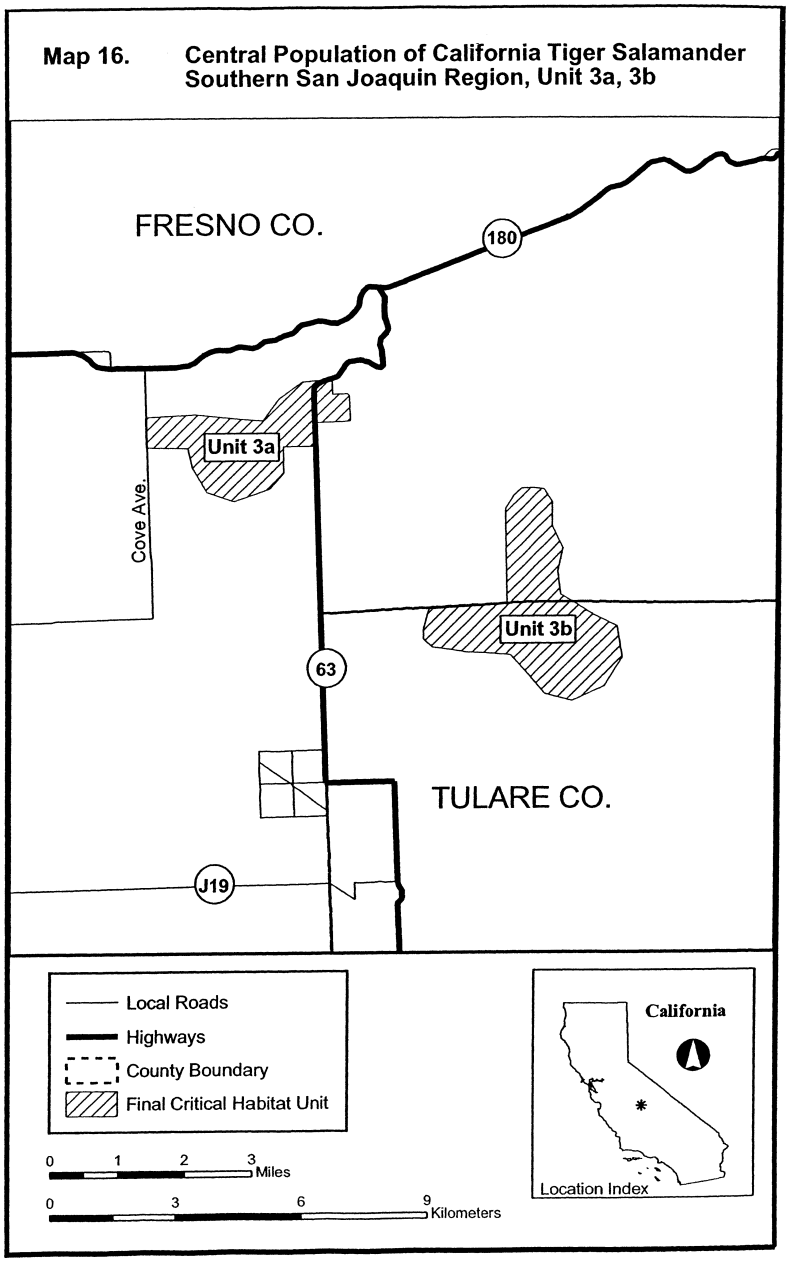
(i) [Reserved]

(ii) 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) [Reserved]

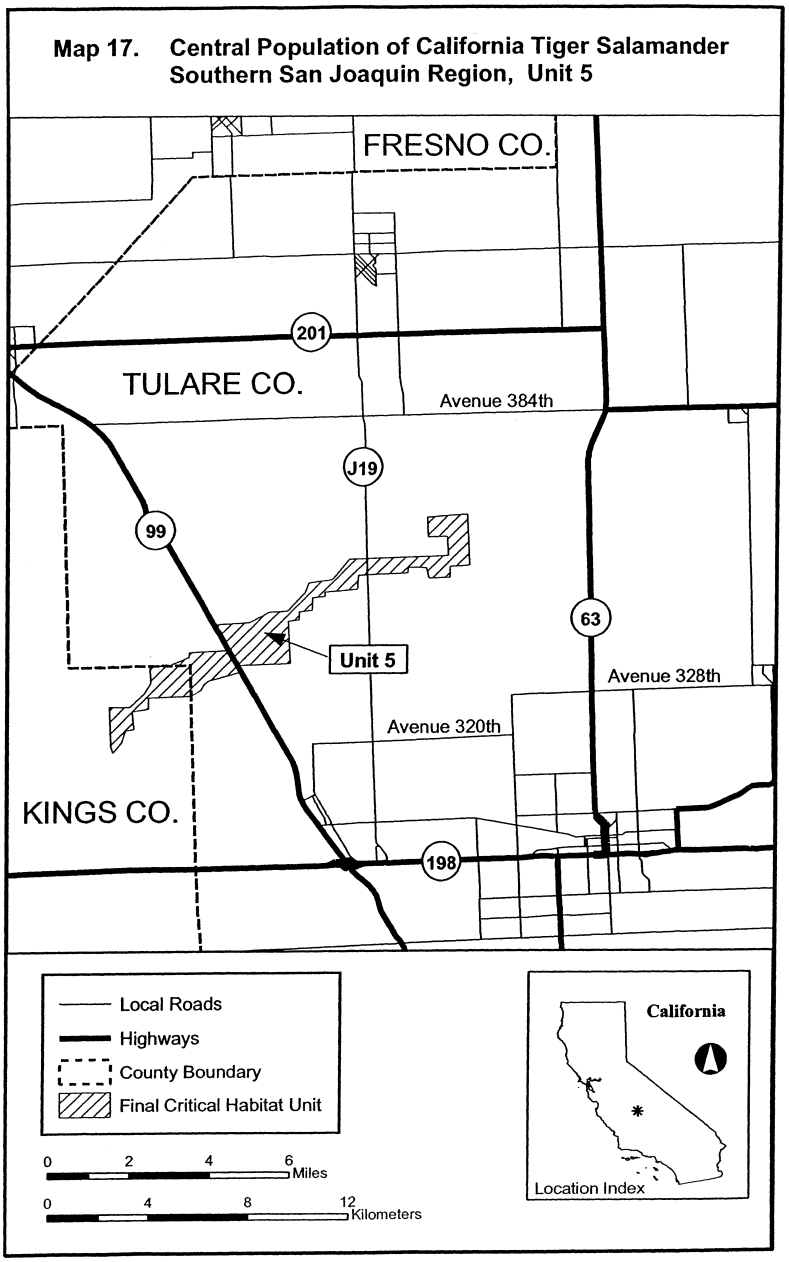
(ii) Southern San Joaquin Valley Region, Unit 3b is depicted on Map 16—Units 3a and 3b—which follows:



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

(i) [Reserved]

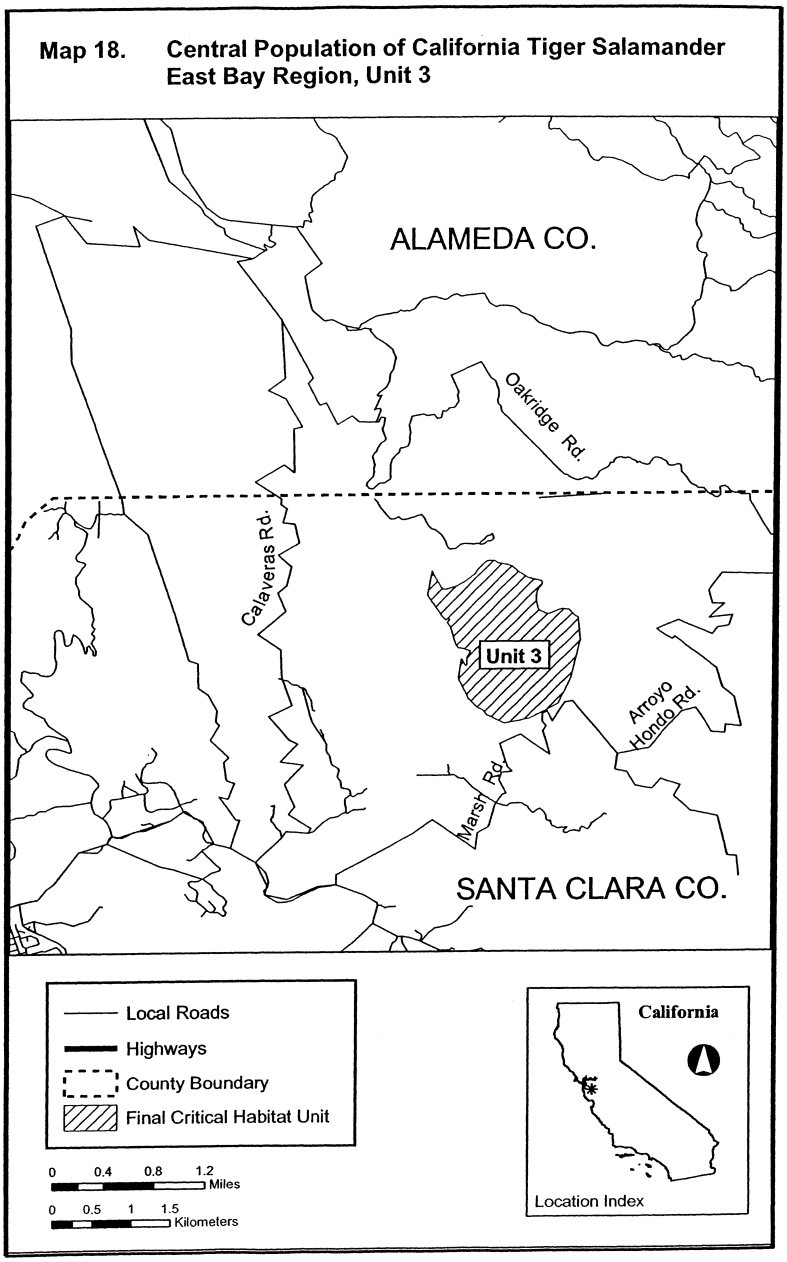
(ii) Map 17 (Southern San Joaquin Valley Region, Unit 5) follows:



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

(i) [Reserved]

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



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

(i) [Reserved]

(ii) 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) [Reserved]

(ii) 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.

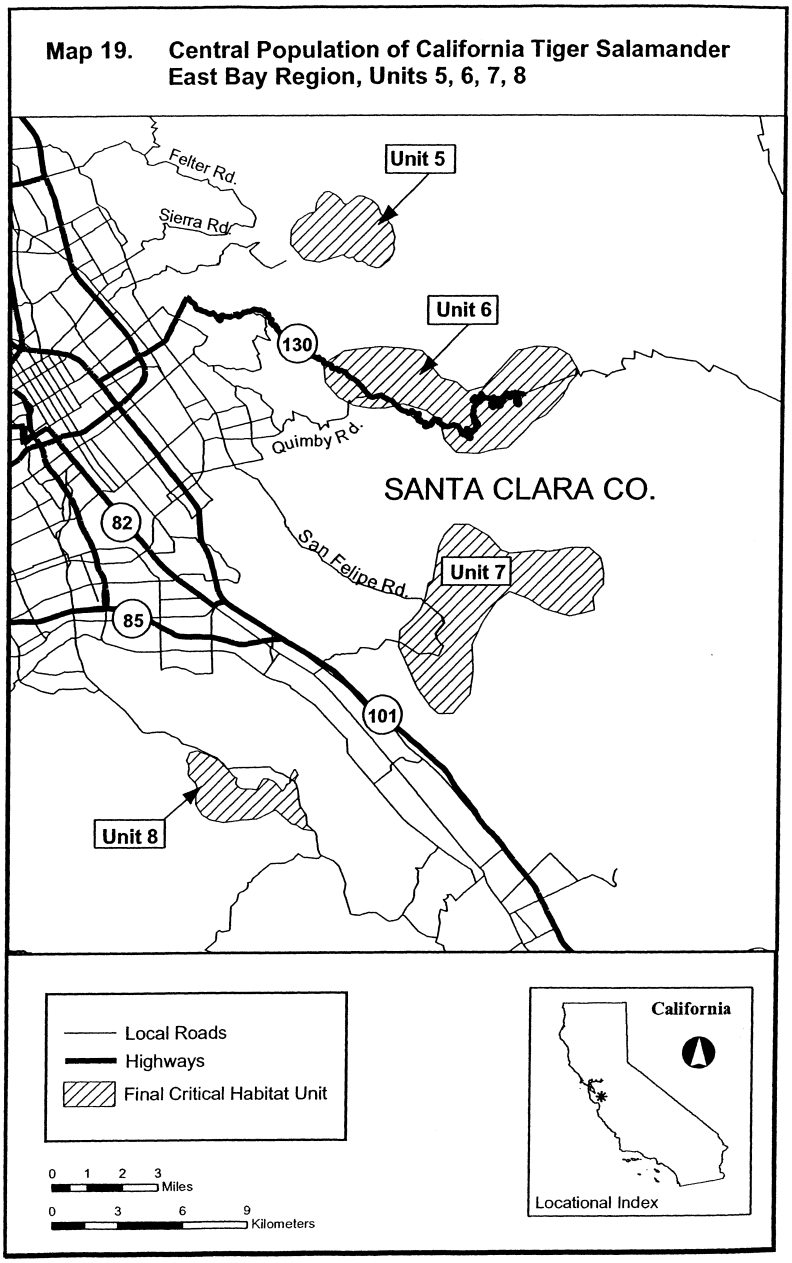
(i) [Reserved]

(ii) 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) [Reserved]

(ii) 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) [Reserved]

(ii) 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) [Reserved]

(ii) 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) [Reserved]

(ii) 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.

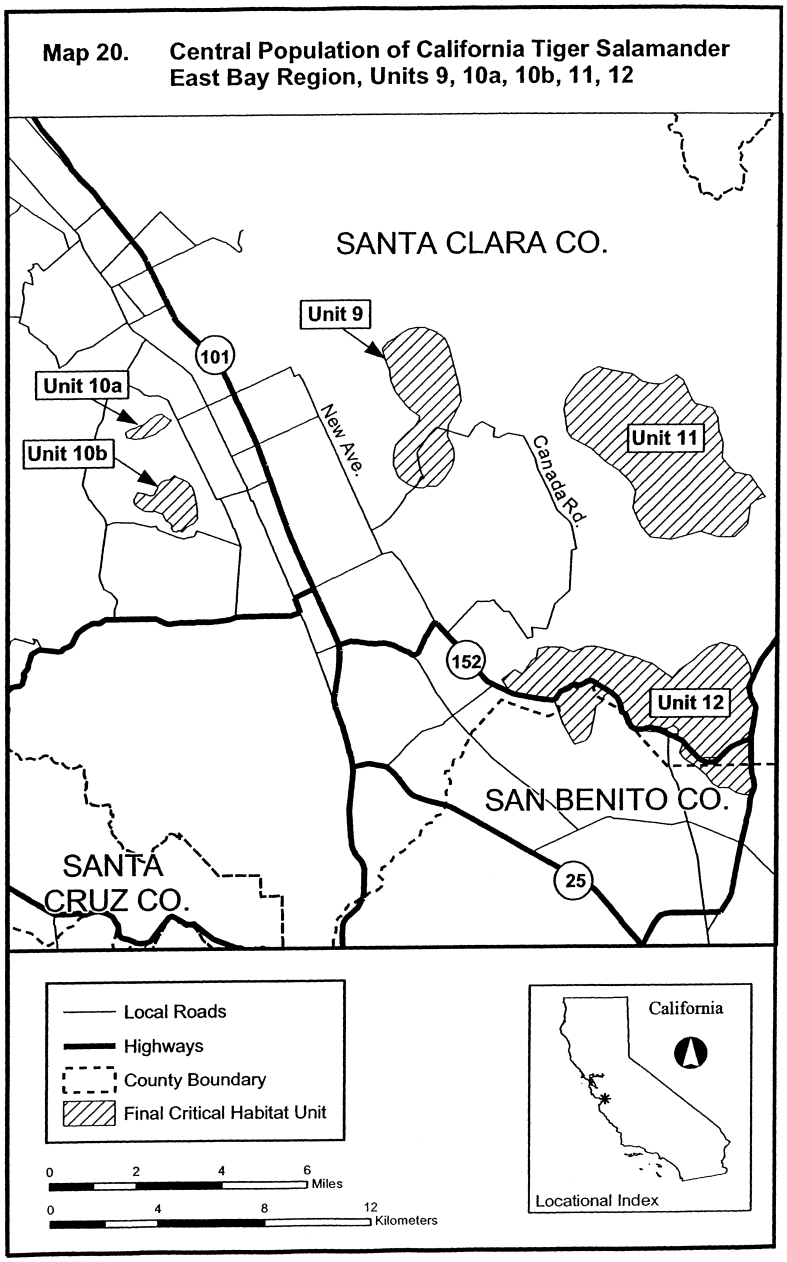
(i) [Reserved]

(ii) 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) [Reserved]

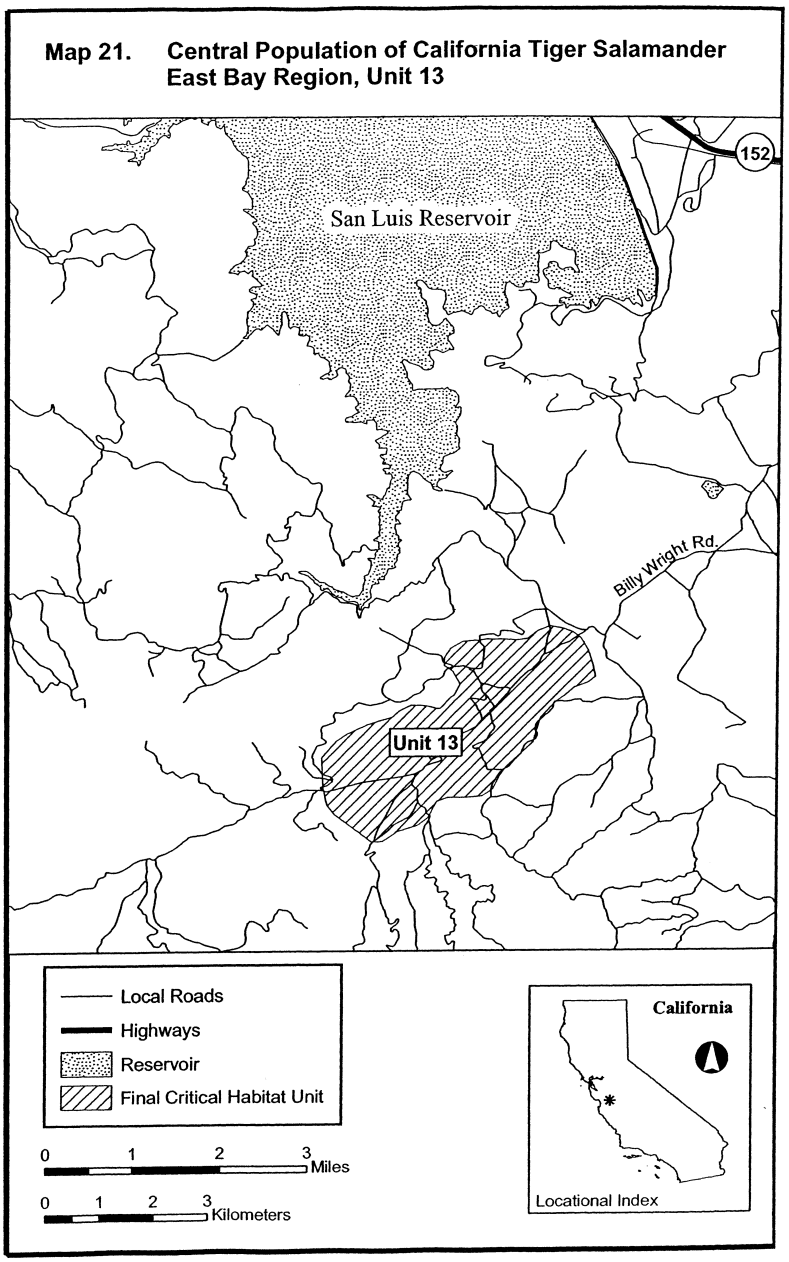
(ii) East Bay Region, Unit 12 is depicted on Map 20—Units 9, 10a, 10b, 11, and 12—which follows:



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

(i) [Reserved]

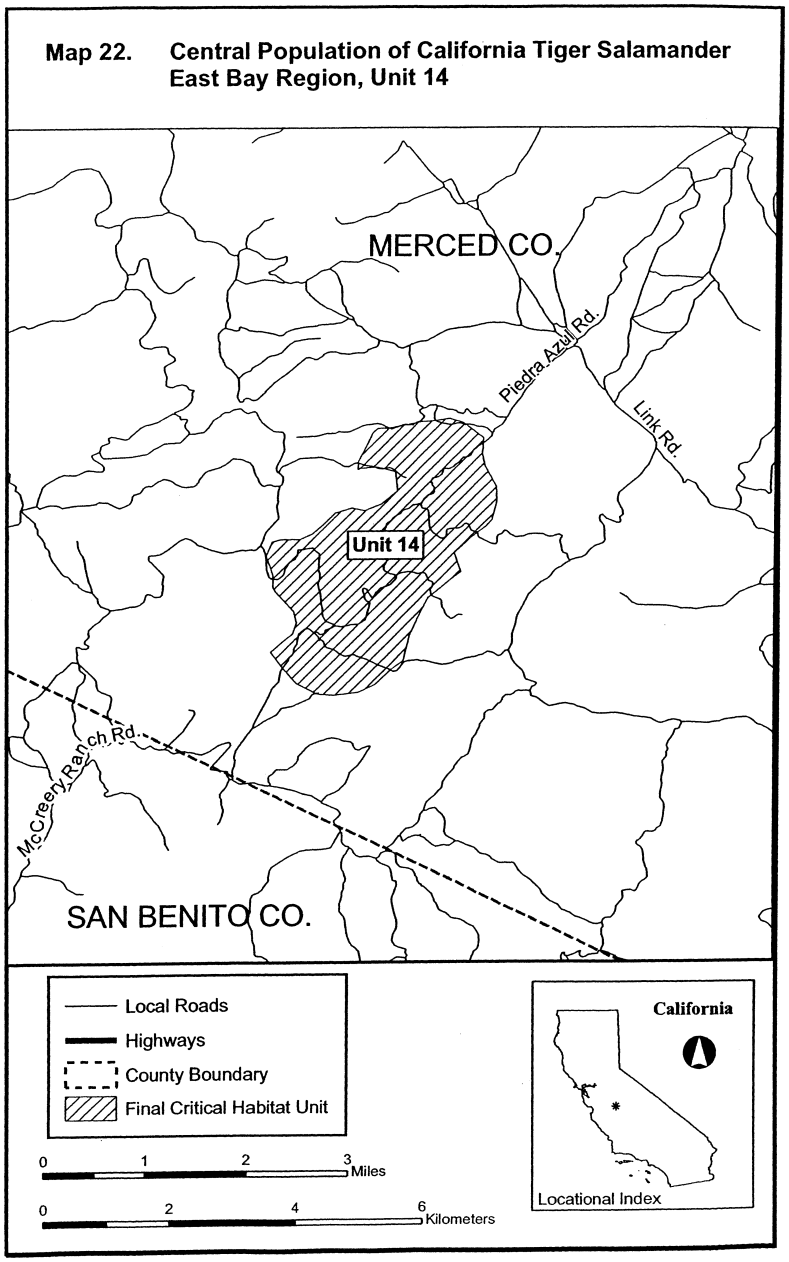
(ii) Map 21 (East Bay Region, Unit 13) follows:



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

(i) [Reserved]

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



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

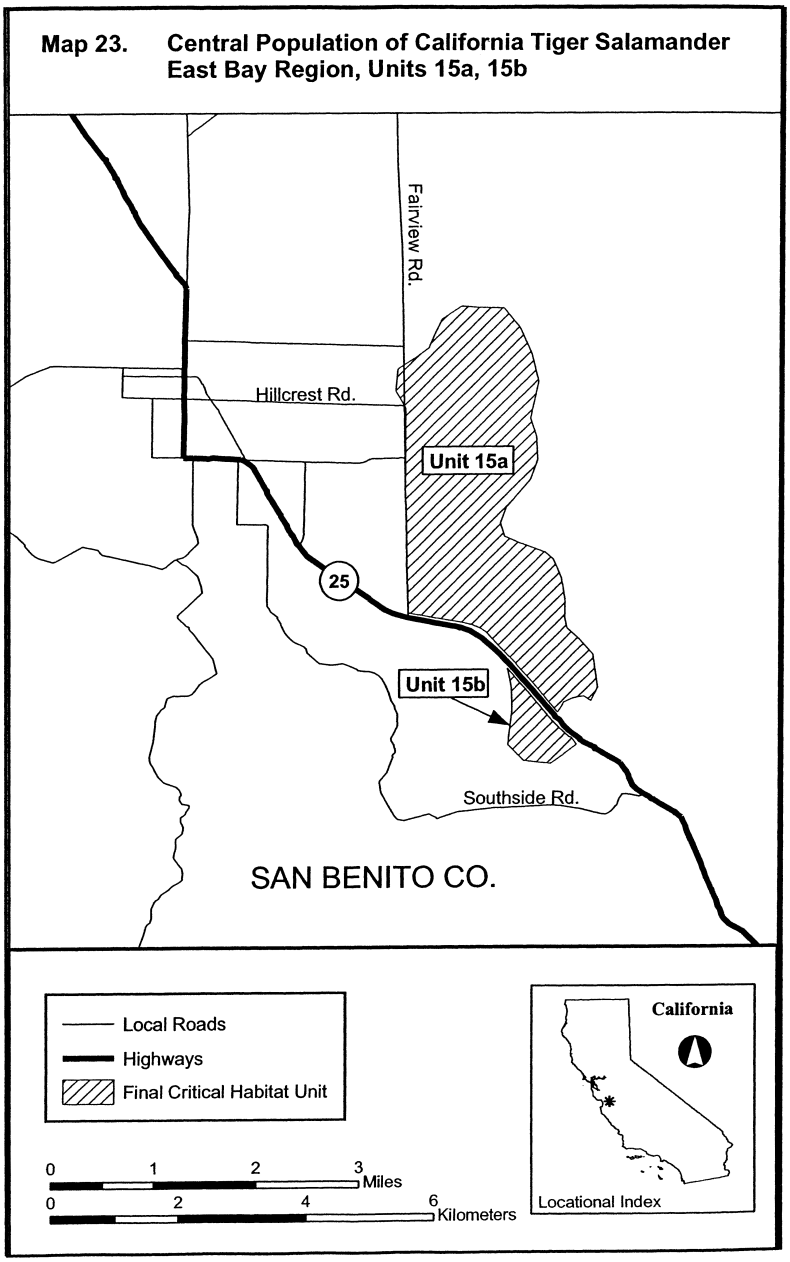
(i) [Reserved]

(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) [Reserved]

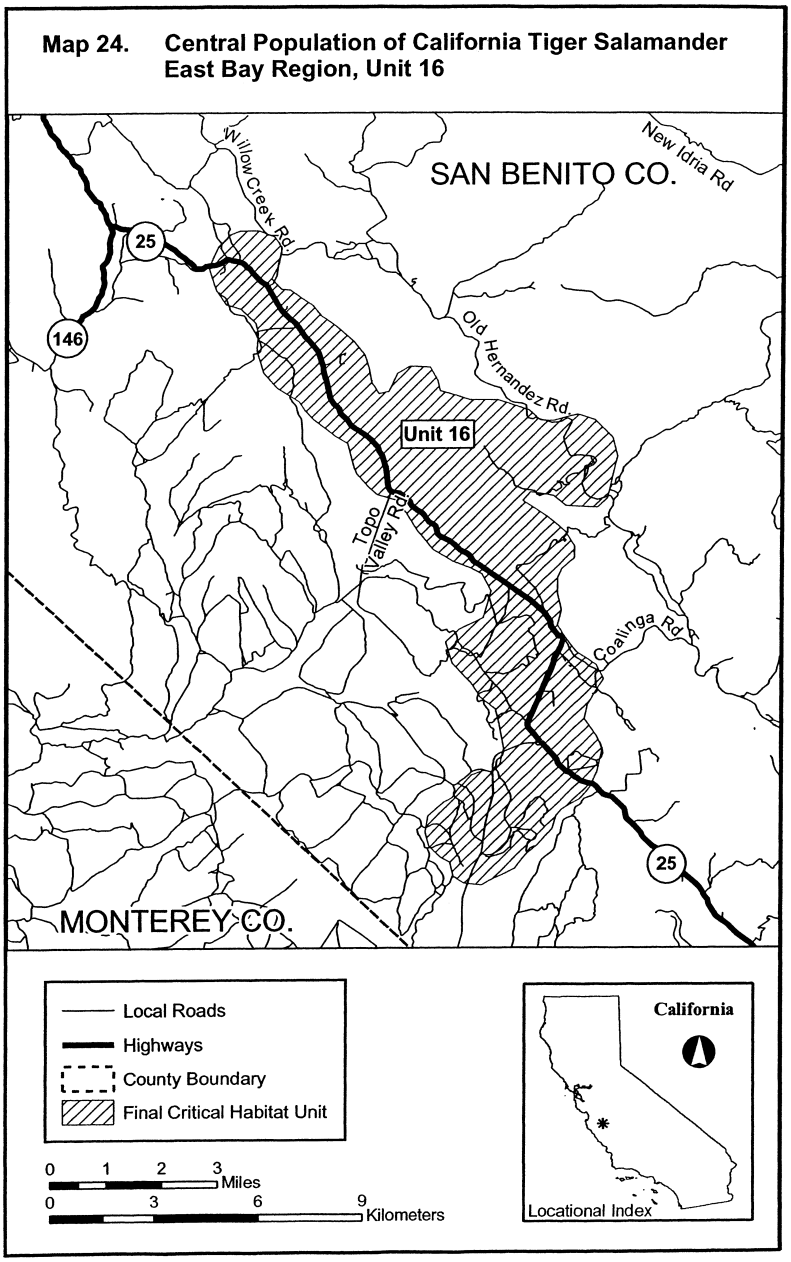
(ii) East Bay Region, Unit 15b is depicted on Map 23—Units 15a and 15b—which follows:



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

(i) [Reserved]

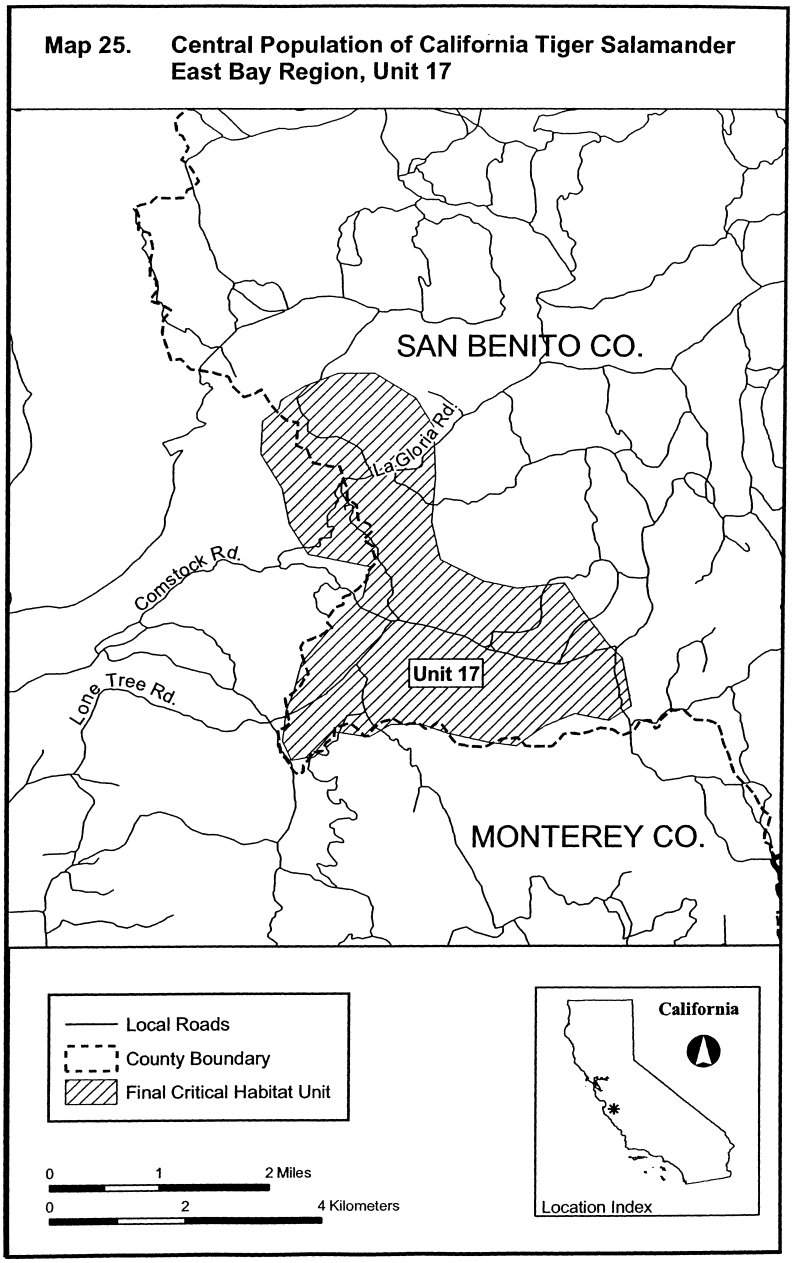
(ii) Map 24 (East Bay Region, Unit 16) follows:



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

(i) [Reserved]

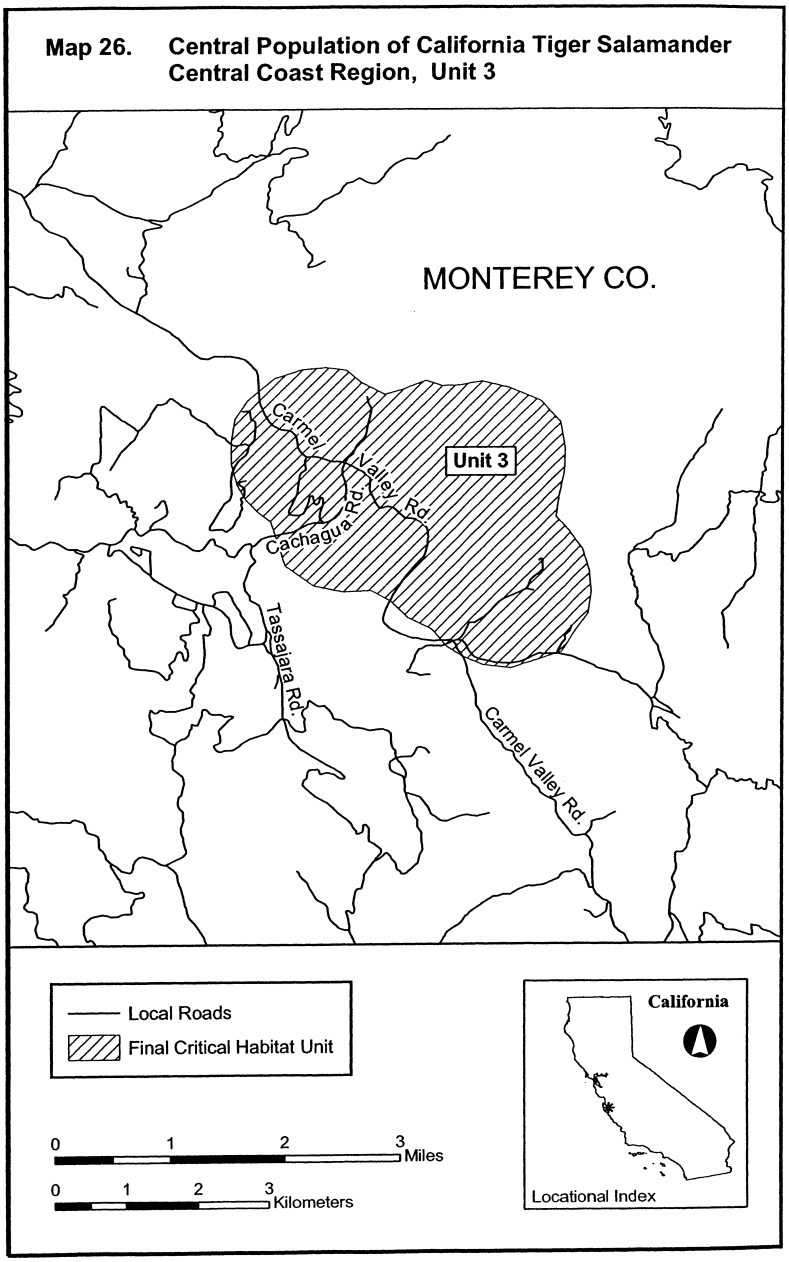
(ii) Map 25 (East Bay Region, Unit 17) follows:



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

(i) [Reserved]

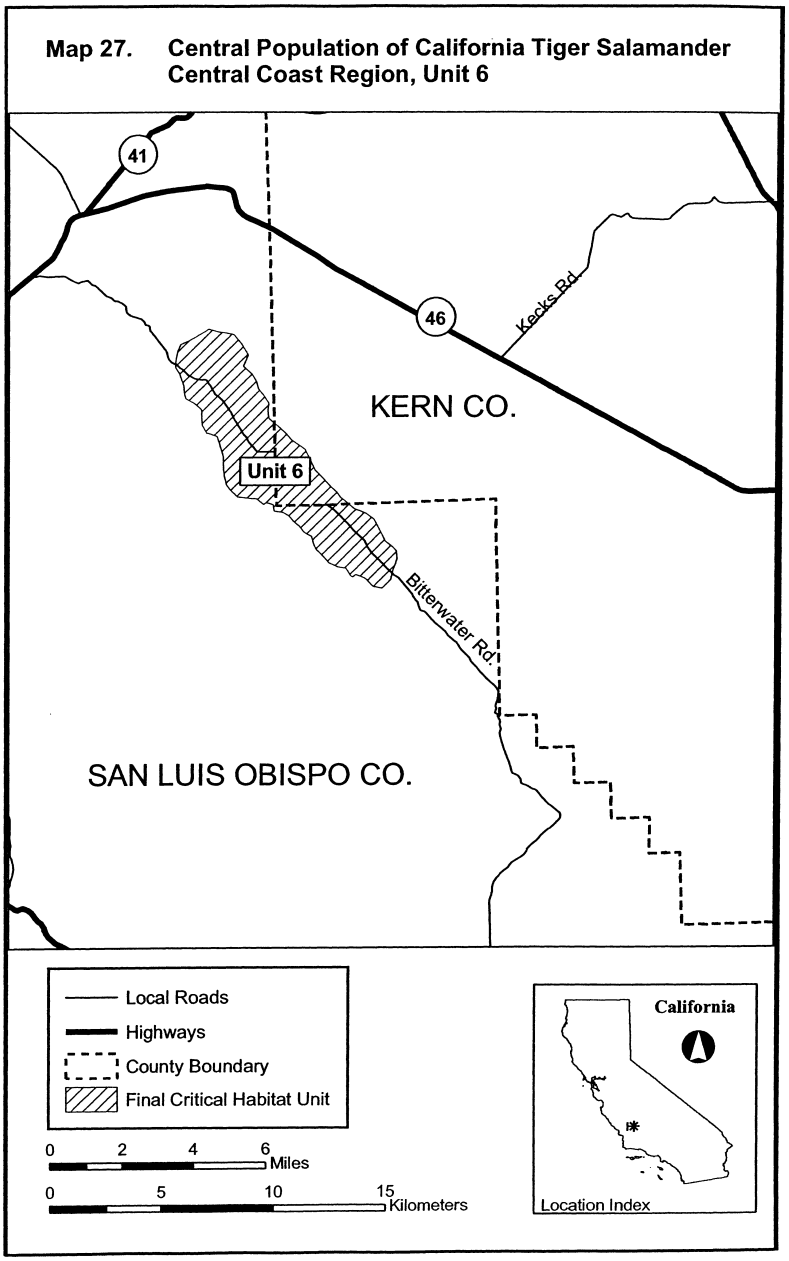
(ii) Map 26 (Central Coast Region, Unit 3) follows:



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

(i) [Reserved]

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



CALIFORNIA TIGER SALAMANDER (*Ambystoma californiense*) IN SONOMA COUNTY

(52) The critical habitat unit for Sonoma County, CA, is depicted on the map at paragraph (56)(ii) of this entry.

(53) Within these areas, the primary constituent elements of the physical and biological features essential to the conservation of the California tiger salamander in Sonoma County consist of three components:

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

(ii) Upland habitats adjacent to and accessible from breeding ponds that contain small mammal burrows or other underground refugia that the species depends upon for food, shelter, and protection from the elements and predation.

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

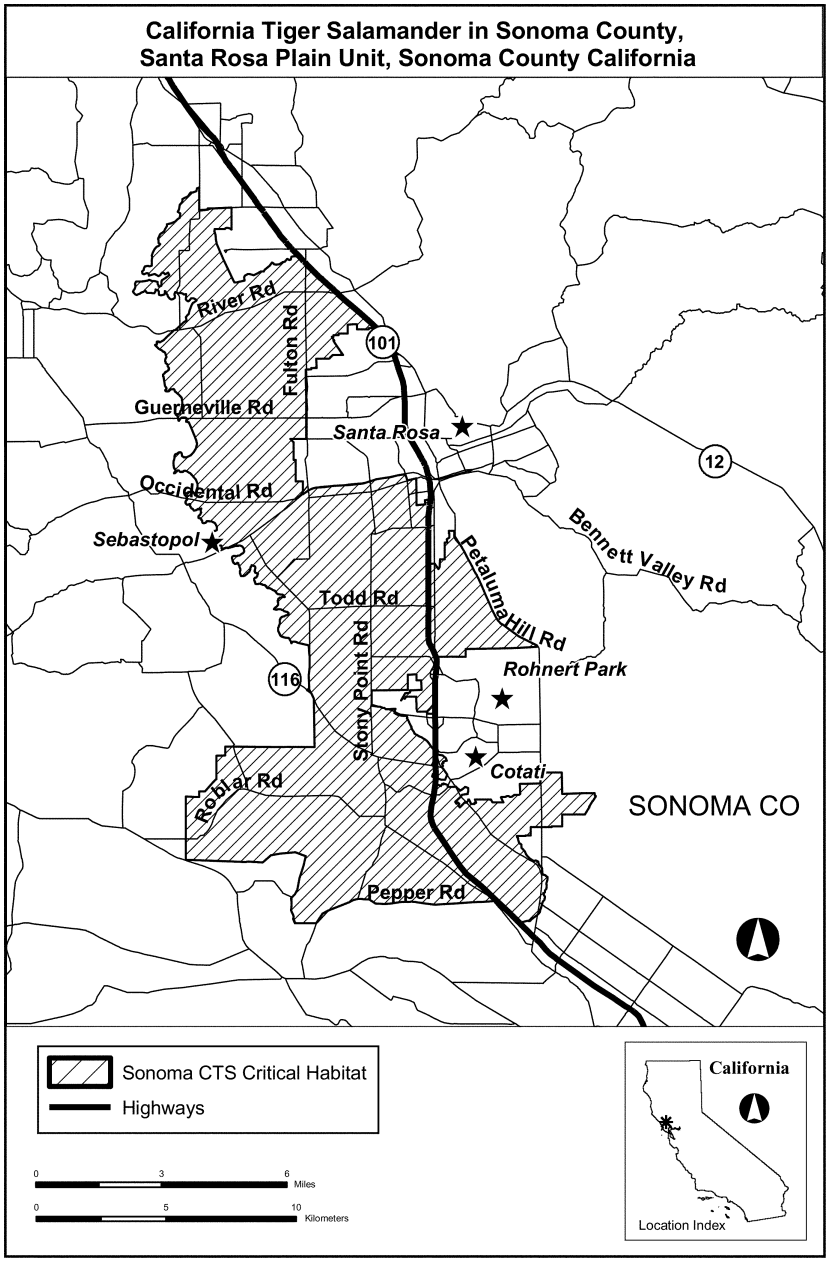
(54) Critical habitat does not include manmade structures (such as buildings, aqueducts, runways, roads, and other paved areas) and the land on which they are located existing within the legal boundaries on the effective date of this rule.

(55) *Critical habitat map unit.* Data layers defining the map unit were created on a base of USGS 7.5′ quadrangles, and the critical habitat unit was then mapped using Universal Transverse Mercator (UTM) Zone 10N coordinates.

(56) Santa Rosa Plain Unit, Sonoma County, California.

(i) [Reserved]

(ii) *Note:* Map of Santa Rosa Plain Unit, follows:



FROSTED FLATWOODS SALAMANDER
(*Ambystoma cingulatum*)

(1) Critical habitat units are depicted for Baker, Franklin, Jefferson, Liberty, and Wakulla Counties in Florida; and Berkeley, Charleston, and Jasper Counties in South Carolina on the maps below.

(2) The primary constituent elements of critical habitat for the frosted flatwoods salamander are:

(i) *Breeding habitat.* Small (generally less than 1 to 10 ac (less than 0.4 to 4.0 ha)), acidic, depressional standing bodies of freshwater (wetlands) that:

(A) Are seasonally flooded by rainfall in late fall or early winter and dry in late spring or early summer;

(B) Are geographically isolated from other water bodies;

(C) Occur within pine flatwoods-savanna communities;

(D) Are dominated by grasses and grass-like species in the ground layer and overstories of pond-cypress, blackgum, and slash pine;

(E) Have a relatively open canopy, necessary to maintain the herbaceous component that serves as cover for flatwoods salamander larvae and their aquatic invertebrate prey; and

(F) Typically have a burrowing crayfish fauna, but, due to periodic drying, the breeding ponds typically lack large, predatory fish (for example, *Lepomis* (sunfish), *Micropterus* (bass), *Amia calva* (bowfin)).

(ii) *Non-breeding habitat.* Upland pine flatwoods-savanna habitat that is open, mesic woodland maintained by frequent fires and that:

(A) Is within 1,500 ft (457 m) of adjacent and accessible breeding ponds;

(B) Contains crayfish burrows or other underground habitat that the flatwoods salamander depends upon for food, shelter, and protection from the elements and predation;

(C) Has an organic hardpan in the soil profile, which inhibits subsurface water penetration and typically results in moist soils with water often at or near the surface under normal conditions; and

(D) Often has wiregrasses as the dominant grasses in the abundant herbaceous ground cover, which supports the rich herbivorous invertebrates that serve as a food source for the frosted flatwoods salamander.

(iii) *Dispersal habitat.* Upland habitat areas between nonbreeding and breeding habitat that allows for salamander movement between such sites and that is characterized by:

(A) A mix of vegetation types representing a transition between wetland and upland vegetation (ecotone);

(B) An open canopy and abundant native herbaceous species;

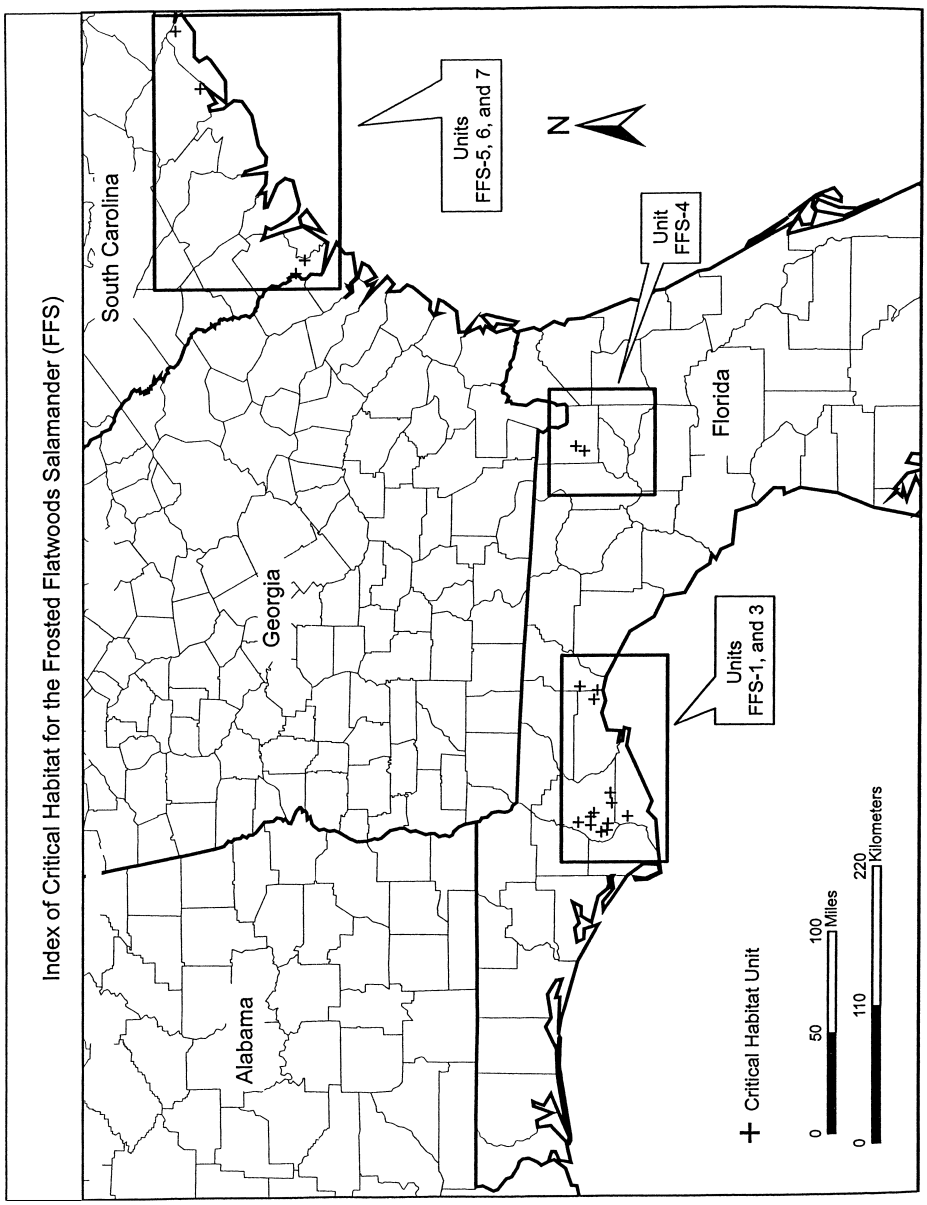
(C) Moist soils as described in paragraph (2)(ii); and

(D) Subsurface structure, such as that provided by deep litter cover or burrows, that provides shelter for salamanders during seasonal movements.

(3) Critical habitat does not include manmade 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 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 of critical habitat for the frosted flatwoods salamander follows:



(6) Frosted flatwood salamander—Baker, Franklin, Jefferson, Liberty, and Wakulla Counties, Florida.

(i) Unit FFS–1, Subunit A—Liberty County, Florida. From USGS 1:24,000 scale quadrangle maps Estiffanulga and Woods, Florida.

(A) [Reserved]

(B) Map depicting Unit FFS–1, Subunit A is provided at paragraph (6)(x)(B) of this entry.

(ii) Unit FFS–1, Subunit B—Liberty County, Florida. From USGS 1:24,000 scale quadrangle map Orange, Florida.

(A) [Reserved]

(B) Map depicting Unit FFS–1, Subunit B is provided at paragraph (6)(x)(B) of this entry.

(iii) Unit FFS–1, Subunit C—Liberty County, Florida. From USGS 1:24,000 scale quadrangle map Wilma, Florida.

(A) [Reserved]

(B) Map depicting Unit FFS–1, Subunit C is provided at paragraph (6)(x)(B) of this entry.

(iv) Unit FFS–1, Subunit D—Liberty County, Florida. From USGS 1:24,000 scale quadrangle map Wilma, Florida.

(A) [Reserved]

(B) Map depicting Unit FFS–1, Subunit D is provided at paragraph (6)(x)(B) of this entry.

(v) Unit FFS–1, Subunit E—Liberty County, Florida. From USGS 1:24,000 scale quadrangle maps Orange and Kennedy Creek, Florida.

(A) [Reserved]

(B) Map depicting Unit FFS–1, Subunit E is provided at paragraph (6)(x)(B) of this entry.

(vi) Unit FFS–1, Subunit F—Liberty County, Florida. From USGS 1:24,000 scale quadrangle map Kennedy Creek, Florida.

(A) [Reserved]

(B) Map depicting Unit FFS–1, Subunit F is provided at paragraph (6)(x)(B) of this entry.

(vii) Unit FFS–1, Subunit G—Liberty County, Florida. From USGS 1:24,000 scale quadrangle maps Kennedy Creek and Sumatra, Florida.

(A) [Reserved]

(B) Map depicting Unit FFS–1, Subunit G is provided at paragraph (6)(x)(B) of this entry.

(viii) Unit FFS–1, Subunit H—Liberty County, Florida. From USGS 1:24,000 scale quadrangle maps Sumatra and Owens Bridge, Florida.

(A) [Reserved]

(B) Map depicting Unit FFS–1, Subunit H is provided at paragraph (6)(x)(B) of this entry.

(ix) Unit FFS–1, Subunit I—Liberty County, Florida. From USGS 1:24,000 scale quadrangle map Owens Bridge, Florida.

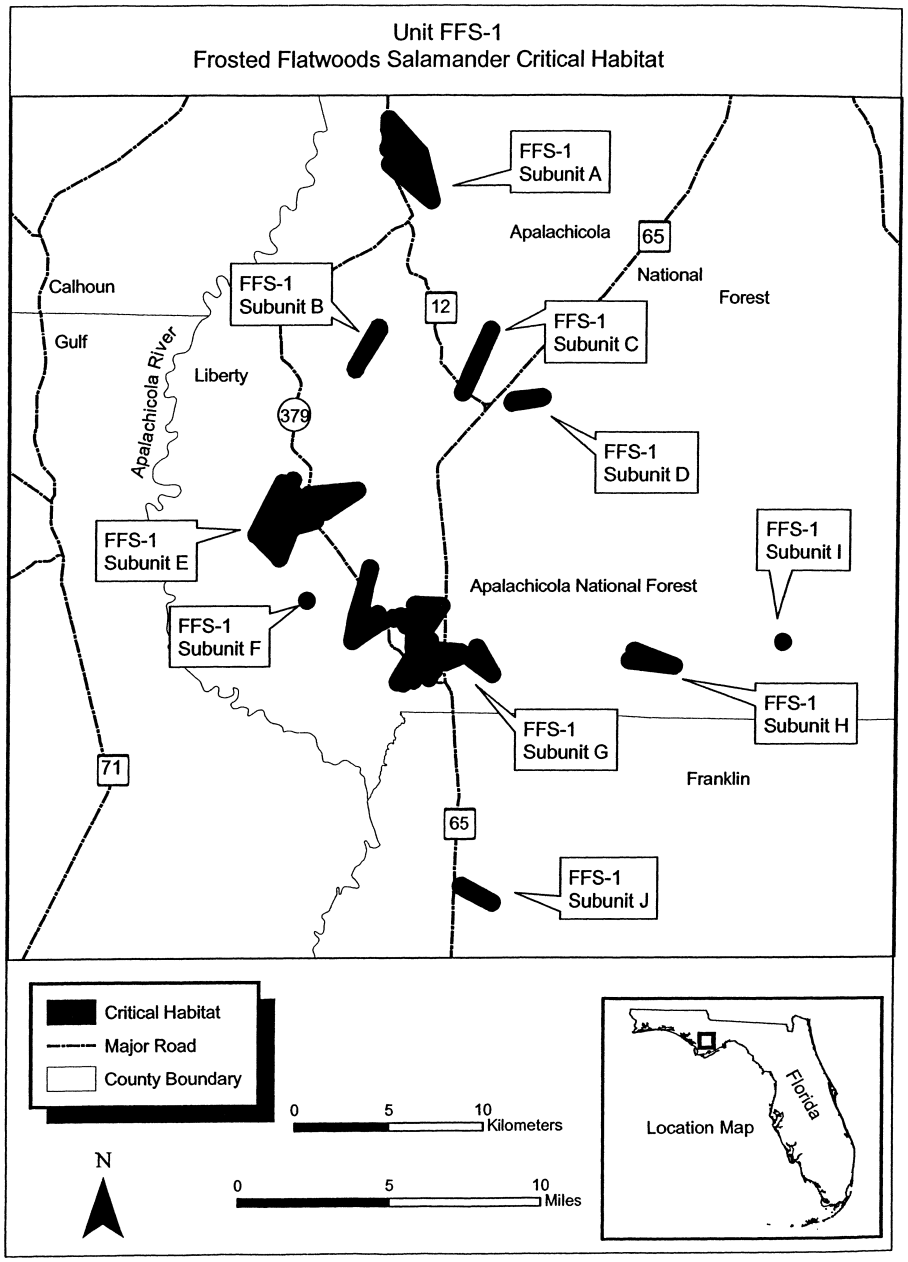
(A) [Reserved]

(B) Map depicting Unit FFS–1, Subunit I is provided at paragraph (6)(x)(B) of this entry.

(x) Unit FFS–1, Subunit J—Franklin County, Florida. From USGS 1:24,000 scale quadrangle map Fort Gadsen, Florida.

(A) [Reserved]

(B) Map of Unit FFS–1 follows:



(xi) Unit FFS–3, Subunit A—Wakulla County, Florida. From USGS 1:24,000 scale quadrangle maps St. Marks and St. Marks NE, Florida.

(A) [Reserved]

(B) Map depicting Unit FFS–3, Subunit A is provided at paragraph (6)(xiii)(B) of this entry.

(xii) Unit FFS–3, Subunit B—Wakulla and Jefferson Counties, Florida. From USGS 1:24,000 scale quadrangle map St. Marks NE, Florida.

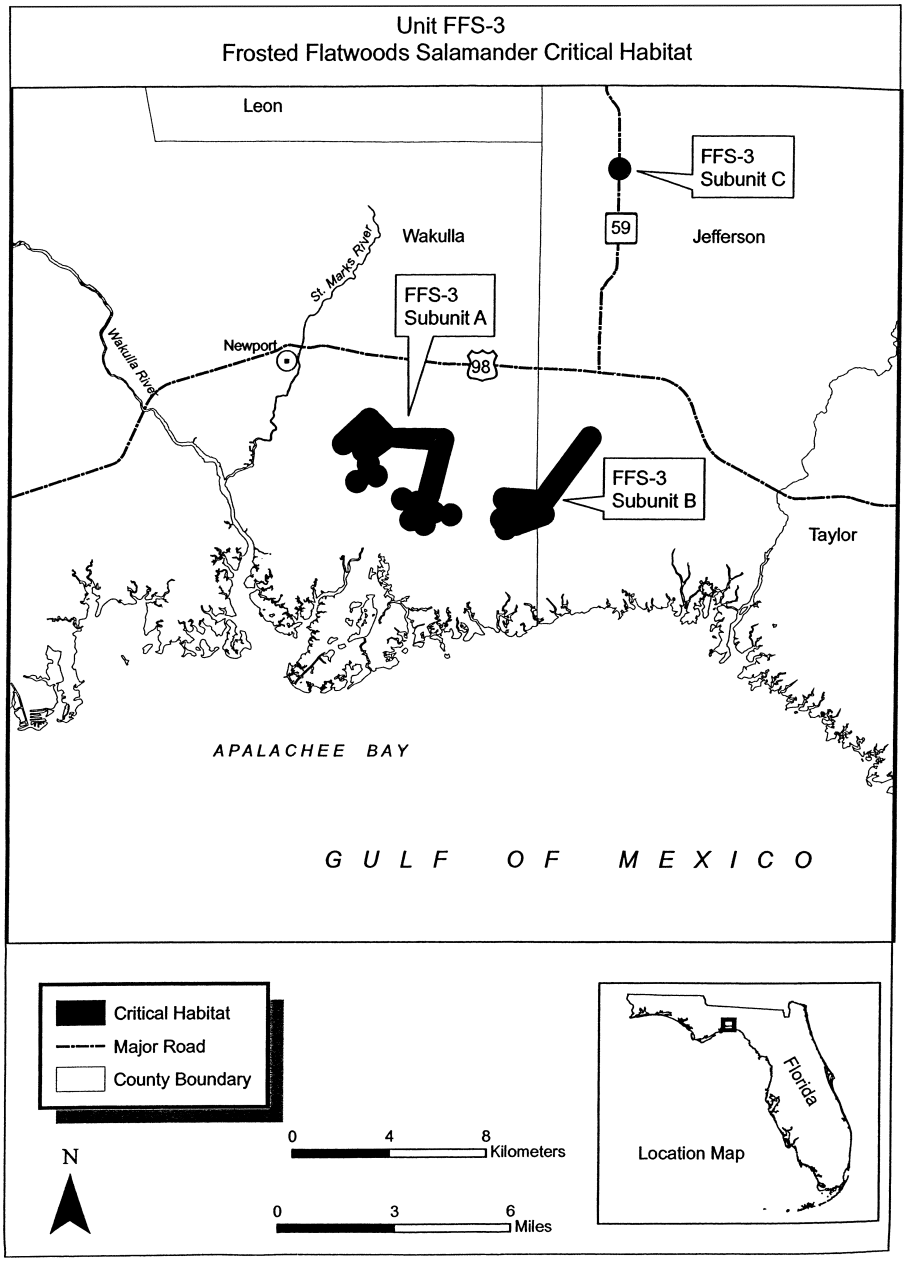
(A) [Reserved]

(B) Map depicting Unit FFS–3, Subunit B is located at paragraph (6)(xiii)(B) of this entry.

(xiii) Unit FFS–3, Subunit C—Jefferson County, Florida. From USGS 1:24,000 scale quadrangle map Cody, Florida.

(A) [Reserved]

(B) Map of Unit FFS–3 follows:



(xiv) Unit FFS–4, Subunit A—Baker County, Florida. From USGS 1:24,000 scale quadrangle maps Big Gum Swamp and Sanderson North, Florida.

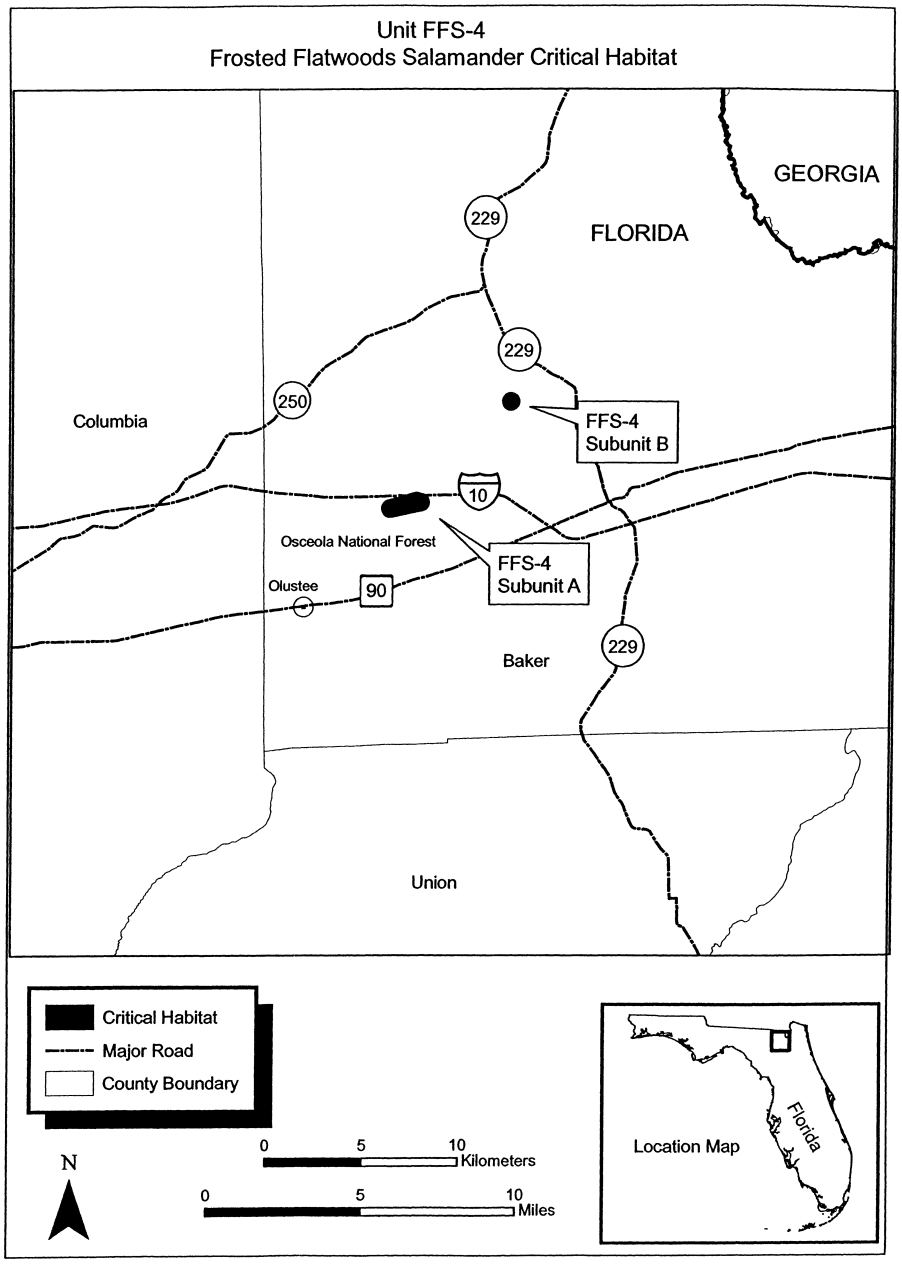
(A) [Reserved]

(B) Map depicting Unit FFS–3, Subunit A is provided at paragraph (6)(xv)(B) of this entry.

(xv) Unit FFS–4, Subunit B: Baker County, Florida. From USGS 1:24,000 scale quadrangle map Sanderson North, Florida.

(A) [Reserved]

(B) Map of Unit FFS–4 follows:



(7) Frosted flatwood salamander—Berkeley, Charleston, and Jasper Counties, South Carolina.

(i) Unit FFS–5, Subunit A—Jasper County, South Carolina. From USGS 1:24,000 scale quadrangle map Limehouse, South Carolina.

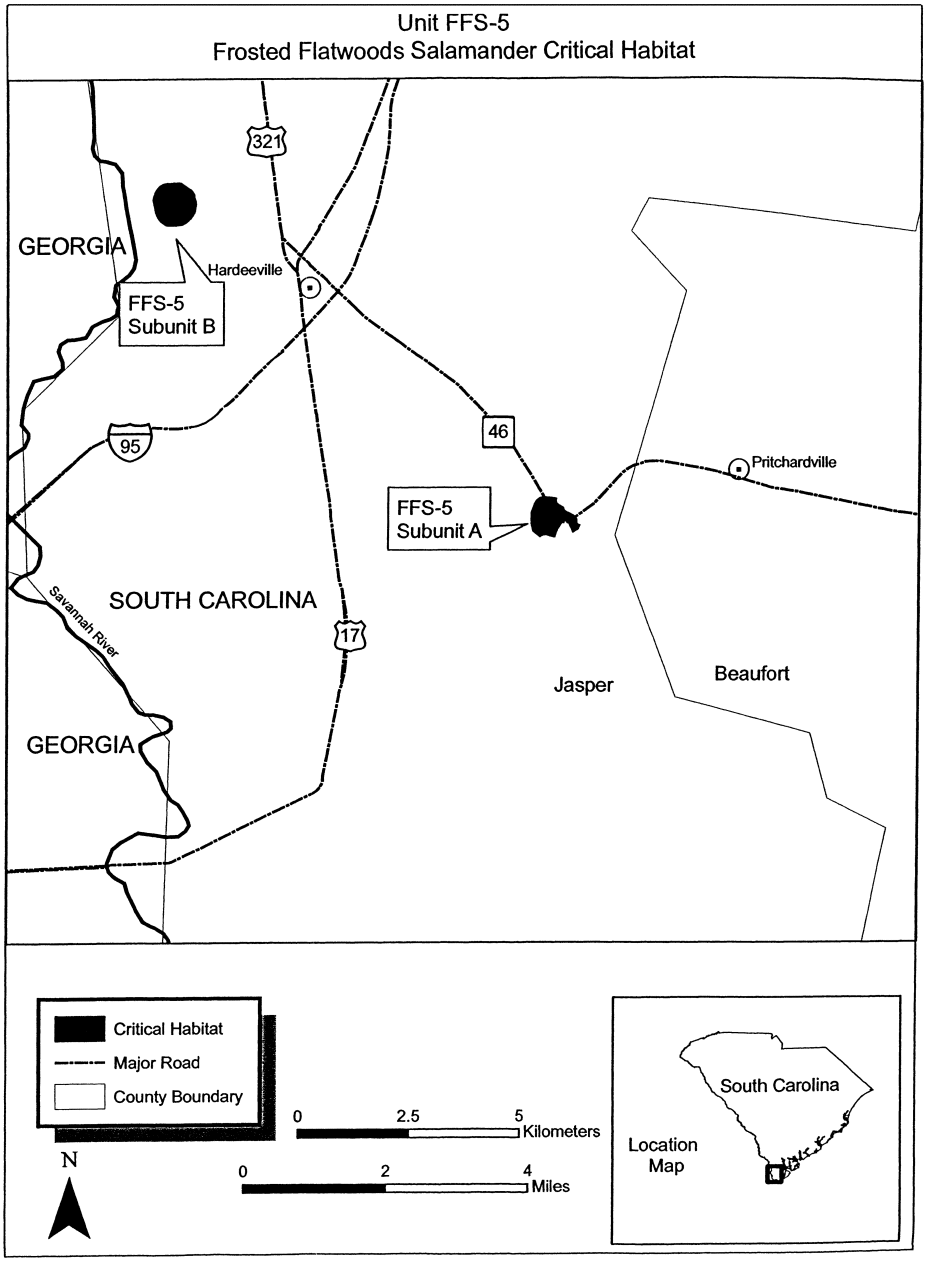
(A) [Reserved]

(B) Map depicting Unit FFS–5, Subunit A is provided at paragraph (7)(ii)(B) of this entry.

(ii) Unit FFS–5, Subunit B—Jasper County, South Carolina. From USGS 1:24,000 scale quadrangle map Hardeeville, South Carolina.

(A) [Reserved]

(B) Map of Unit FFS–5 follows:



(iii) Unit FFS–6—Berkeley County, South Carolina. From USGS 1:24,000 scale quadrangle map Cainhoy, South Carolina.

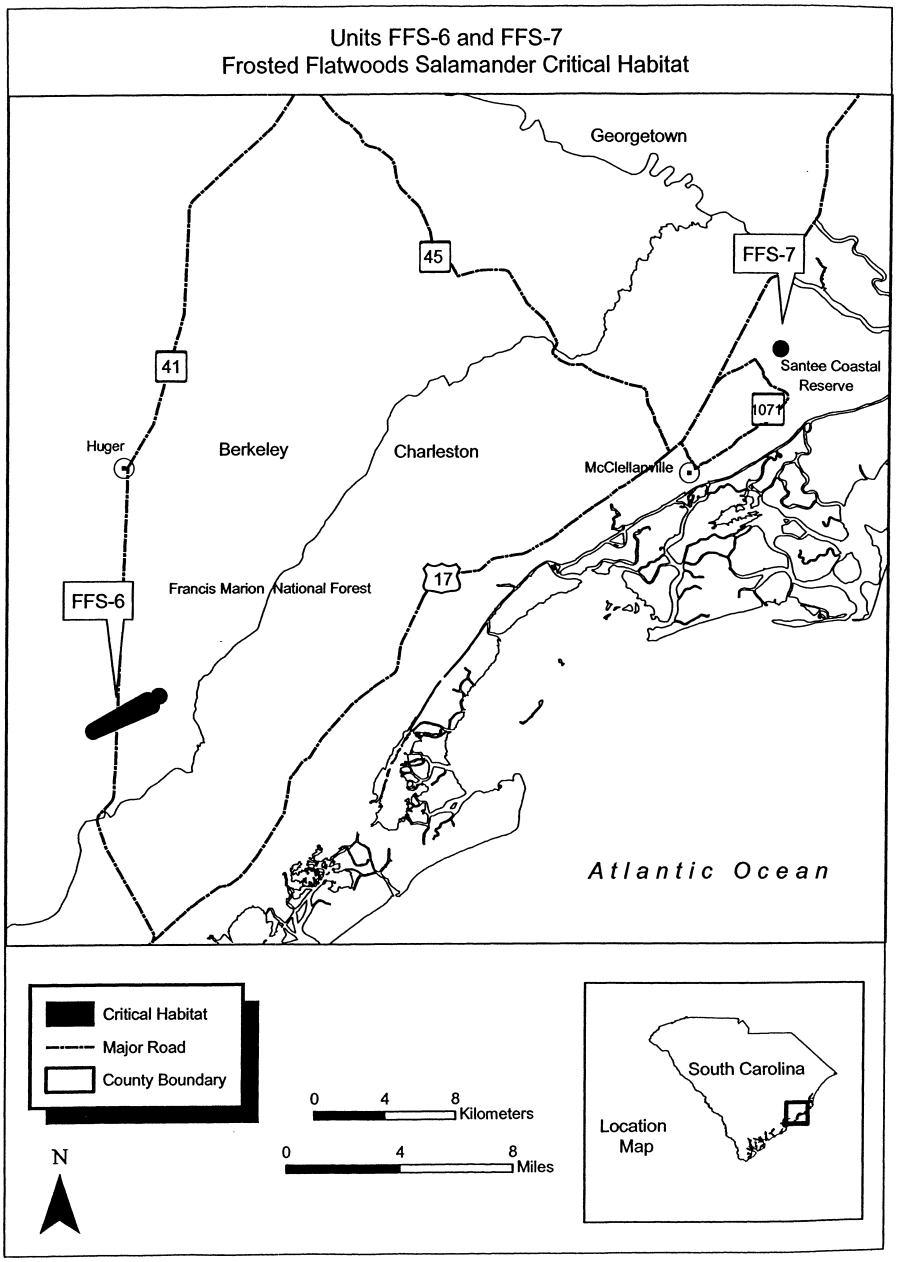
(A) [Reserved]

(B) Map depicting Unit FFS–6 is provided at paragraph (7)(iv)(B) of this entry.

(iv) Unit FFS–7—Charleston County, South Carolina. From USGS 1:24,000 scale quadrangle map, Santee, South Carolina.

(A) [Reserved]

(B) Map of Units FFS–6 and FFS–7 follows:



JEMEZ MOUNTAINS SALAMANDER (*Plethodon neomexicanus*)

(1) Critical habitat units are depicted for Los Alamos, Rio Arriba, and Sandoval Counties, New Mexico, on the maps below.

(2) Within these areas, the primary constituent elements of the physical or biological features essential to the conservation of the Jemez Mountains salamander consist of four components:

(i) Moderate to high tree canopy cover, typically 50 to 100 percent canopy closure, that provides shade and maintains moisture and high relative humidity at the ground surface, and:

(A) Consists of the following tree species alone or in any combination: Douglas fir (*Pseudotsuga menziesii*); blue spruce (*Picea pungens*); Engelman spruce (*Picea engelmannii*); white fir (*Abies concolor*); limber pine (*Pinus flexilis*); Ponderosa pine (*Pinus ponderosa*); and aspen (*Populus tremuloides*); and

(B) Has an understory that predominantly comprises: Rocky Mountain maple (*Acer glabrum*); New Mexico locust (*Robinia neomexicana*); oceanspray (*Holodiscus* spp.); or shrubby oaks (*Quercus* spp.).

(ii) Elevations from 6,988 to 11,254 feet (2,130 to 3,430 meters).

(iii) Ground surface in forest areas with:

(A) Moderate to high volumes of large fallen trees and other woody debris, especially coniferous logs at least 10 inches (25 centimeters) in diameter, particularly Douglas fir, which are in contact with the soil in varying stages of decay from freshly fallen to nearly fully decomposed; or

(B) Structural features, such as rocks, bark, and moss mats, that provide the species with food and cover.

(iv) Underground habitat in forest or meadow areas containing interstitial spaces provided by:

(A) Igneous rock with fractures or loose rocky soils;

(B) Rotted tree root channels; or

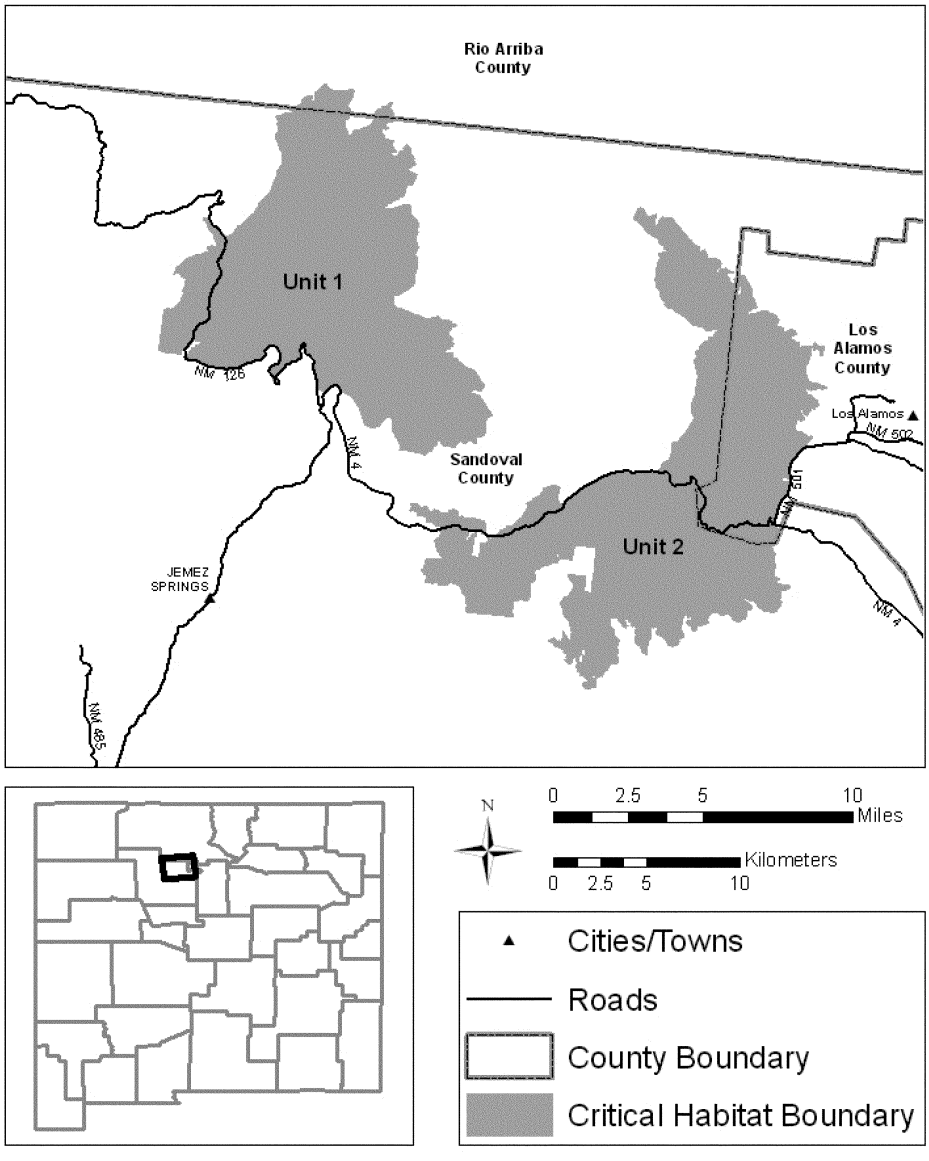
(C) Burrows of rodents or large invertebrates.

(3) Critical habitat does not include manmade 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 December 20, 2013.

(4) *Critical habitat map units.* Data layers defining map units were created using digital elevation models, GAP landcover data, salamander observation data, salamander habitat suitability models, and were then mapped using the USA Contiguous Albers Equal Area Conic USGS version projection. The map in this entry, as modified by any accompanying regulatory text, establishes the boundaries of the critical habitat designation. The coordinates or plot points or both on which the map is based are available to the public at the Service's internet site at *http://www.fws.gov/southwest/es/NewMexico/*, at *http://www.regulations.gov* at Docket No. FWS–R2–ES–2013–0005, and at the New Mexico Ecological Services Field Office. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2.

(5) Unit 1: Western Jemez Mountains, Rio Arriba and Sandoval Counties, New Mexico. Map of Units 1 and 2 follows:

Critical Habitat for *Plethodon neomexicanus*
(Jemez Mountains salamander)



(6) Unit 2: Southeastern Jemez Mountains, Los Alamos and Sandoval Counties, New Mexico. Map of Unit 2 is provided at paragraph (5) of this entry.

JOLLYVILLE PLATEAU SALAMANDER (*Eurycea tonkawae*)

(1) Critical habitat units are depicted for Travis and Williamson Counties, Texas, on the maps below.

(2) Within these areas, the primary constituent elements of the physical or biological features essential to the conservation of Jollyville Plateau salamander consist of six components:

(i) Surface habitat PCEs.

(A) *Water from the Trinity Aquifer, Northern Segment of the Edwards Aquifer, and local alluvial aquifers.* The groundwater is similar to natural aquifer conditions as it discharges from natural spring outlets. Concentrations of water quality constituents and contaminants should be below levels that could exert direct lethal or sublethal effects (such as effects to reproduction, growth, development, or metabolic processes), or indirect effects (such as effects to the Jollyville Plateau salamander's prey base). Hydrologic regimes similar to the historical pattern of the specific sites are present, with at least some surface flow during the year. The water chemistry is similar to natural aquifer conditions, with temperatures from 64.1 to 73.4 °F (17.9 to 23 °C), dissolved oxygen concentrations from 5.6 to 8 mg L^{-1}, and specific water conductance from 550 to 721 µS cm^{-1}.

(B) *Rocky substrate with interstitial spaces.* Rocks in the substrate of the salamander's surface aquatic habitat are large enough to provide salamanders with cover, shelter, and foraging habitat (larger than 2.5 in (64 mm)). The substrate and interstitial spaces have minimal sedimentation.

(C) *Aquatic invertebrates for food.* The spring environment supports a diverse aquatic invertebrate community that includes crustaceans, insects, and flatworms.

(D) *Subterranean aquifer.* Access to the subsurface water table should exist to provide shelter, protection, and space for reproduction. This access can occur in the form of large conduits that carry water to the spring outlet or porous voids between rocks in the streambed that extend down into the water table.

(ii) Subsurface habitat PCEs.

(A) *Water from the Trinity Aquifer, Northern Segment of the Edwards Aquifer, and local alluvial aquifers.* The groundwater is similar to natural aquifer conditions. Concentrations of water quality constituents and contaminants are below levels that could exert direct lethal or sublethal effects (such as effects to reproduction, growth, development, or metabolic processes), or indirect effects (such as effects to the Jollyville Plateau salamander's prey base). Hydrologic regimes similar to the historical pattern of the specific sites are present, with continuous flow. The water chemistry is similar to natural aquifer conditions, including temperature, dissolved oxygen, and specific water conductance.

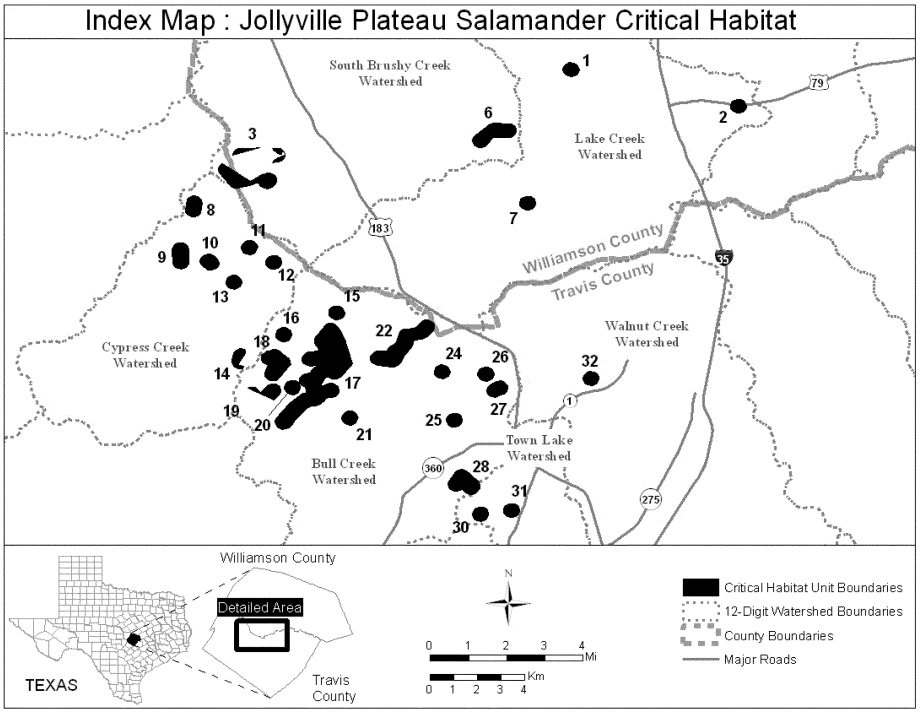
(B) *Subsurface spaces.* Voids between rocks underground are large enough to provide salamanders with cover, shelter, and foraging habitat. These spaces have minimal sedimentation.

(C) *Aquatic invertebrates for food.* The habitat supports an aquatic invertebrate community that includes crustaceans, insects, or flatworms.

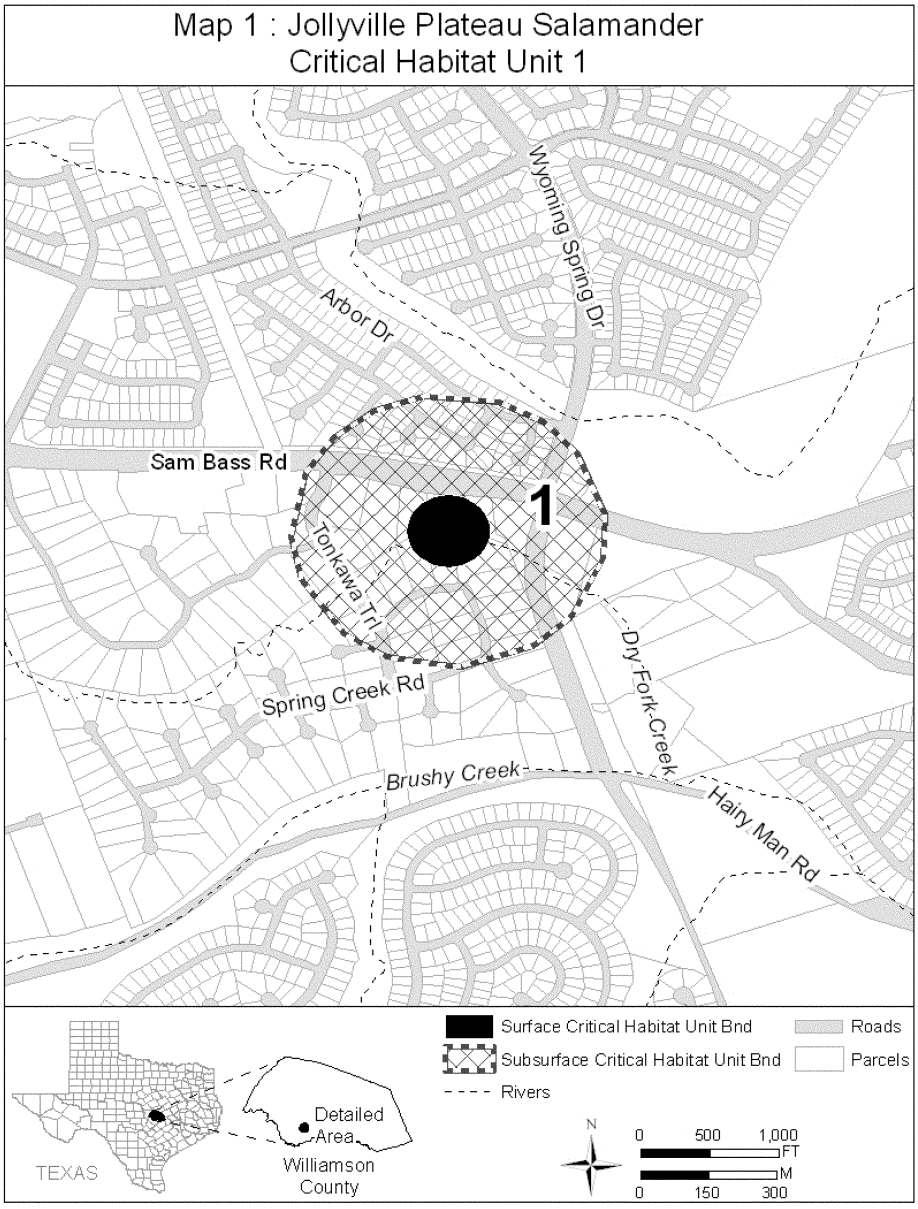
(3) Surface critical habitat includes the spring outlets and outflow up to the high water line and 262 ft (80 m) of upstream and downstream habitat, including the dry stream channel during periods of no surface flow. The surface critical habitat does not include manmade structures (such as buildings, aqueducts, runways, roads, and other paved areas) existing within the legal boundaries on the effective date of this rule; however, the subsurface critical habitat may extend below such structures. The subsurface critical habitat includes underground features in a circle with a radius of 984 ft (300 m) around the springs.

(4) *Critical habitat map units.* Data layers defining map units were created using a geographic information system (GIS), which included species locations, roads, property boundaries, 2011 aerial photography, and USGS 7.5′ quadrangles. Points were placed on the GIS. We delineated critical habitat unit boundaries by starting with the cave or spring point locations that are occupied by the salamanders. From these cave or springs points, we delineated a 984-ft (300-m) buffer to create the polygons that capture the extent to which we believe the salamander populations exist through underground conduits. The polygons were then simplified to reduce the number of vertices, but still retain the overall shape and extent. Subsequently, polygons that were within 98 ft (30 m) of each other were merged together. Each new merged polygon was then revised to remove extraneous divots or protrusions that resulted from the merge process. The maps in this entry, as modified by any accompanying regulatory text, establish the boundaries of the critical habitat designation. The coordinates or plot points or both on which each map is based are available to the public at the field office Internet site (*http://www.fws.gov/southwest/es/AustinTexas/*), *http://www.regulations.gov* at Docket No. FWS–R2–ES–2013–0001 and at the Service's Austin Ecological Services Field Office. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2.

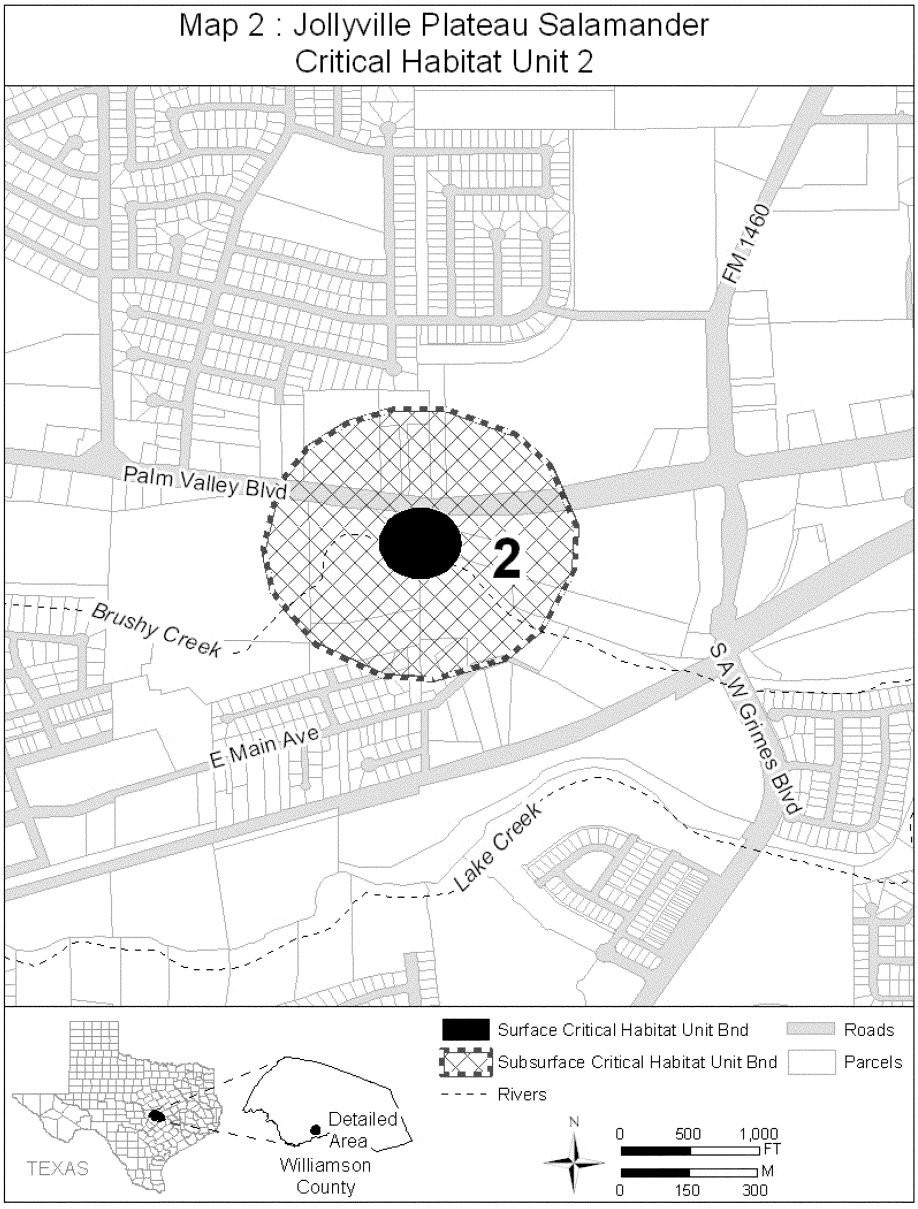
(5) Index map follows:



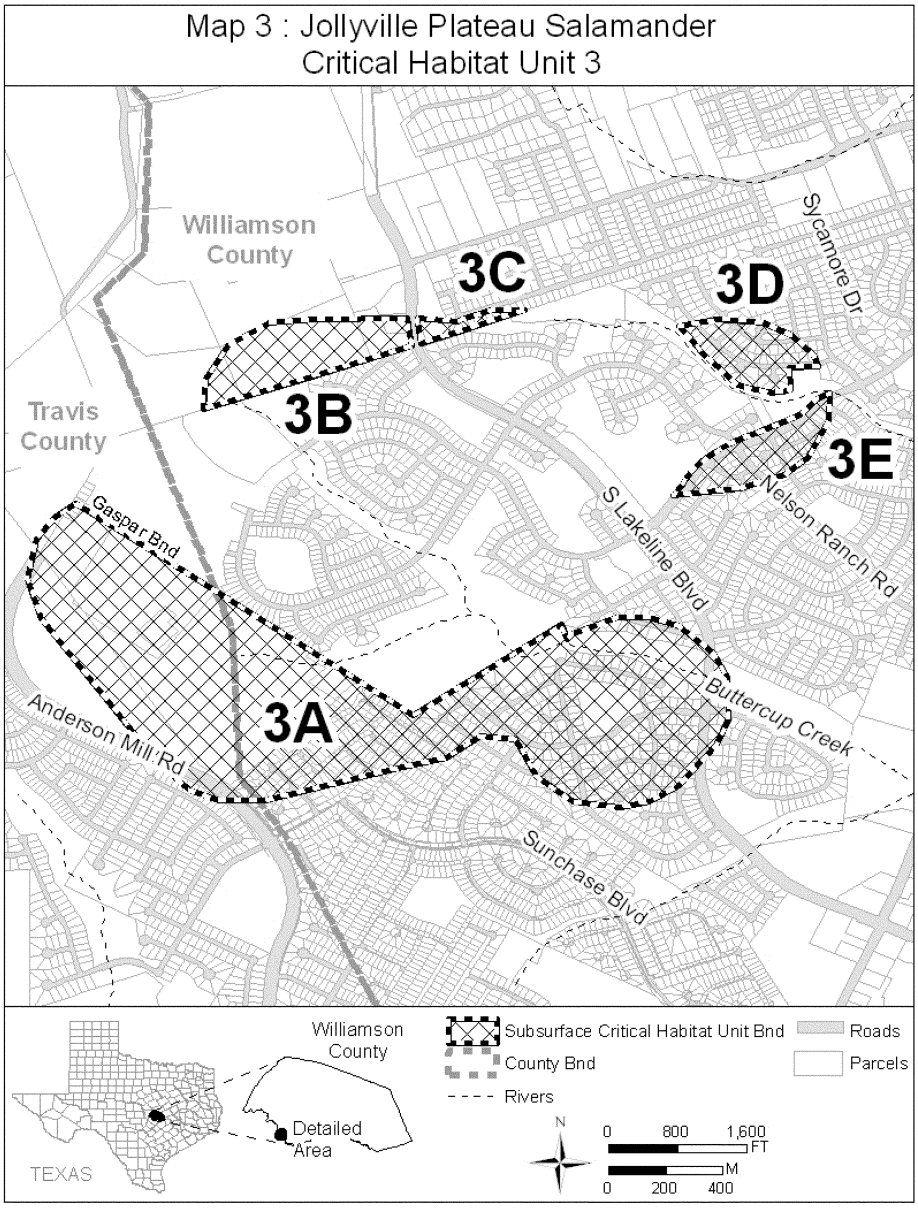
(6) Unit 1: Krienke Spring Unit, Williamson County, Texas. Map of Unit 1 follows:



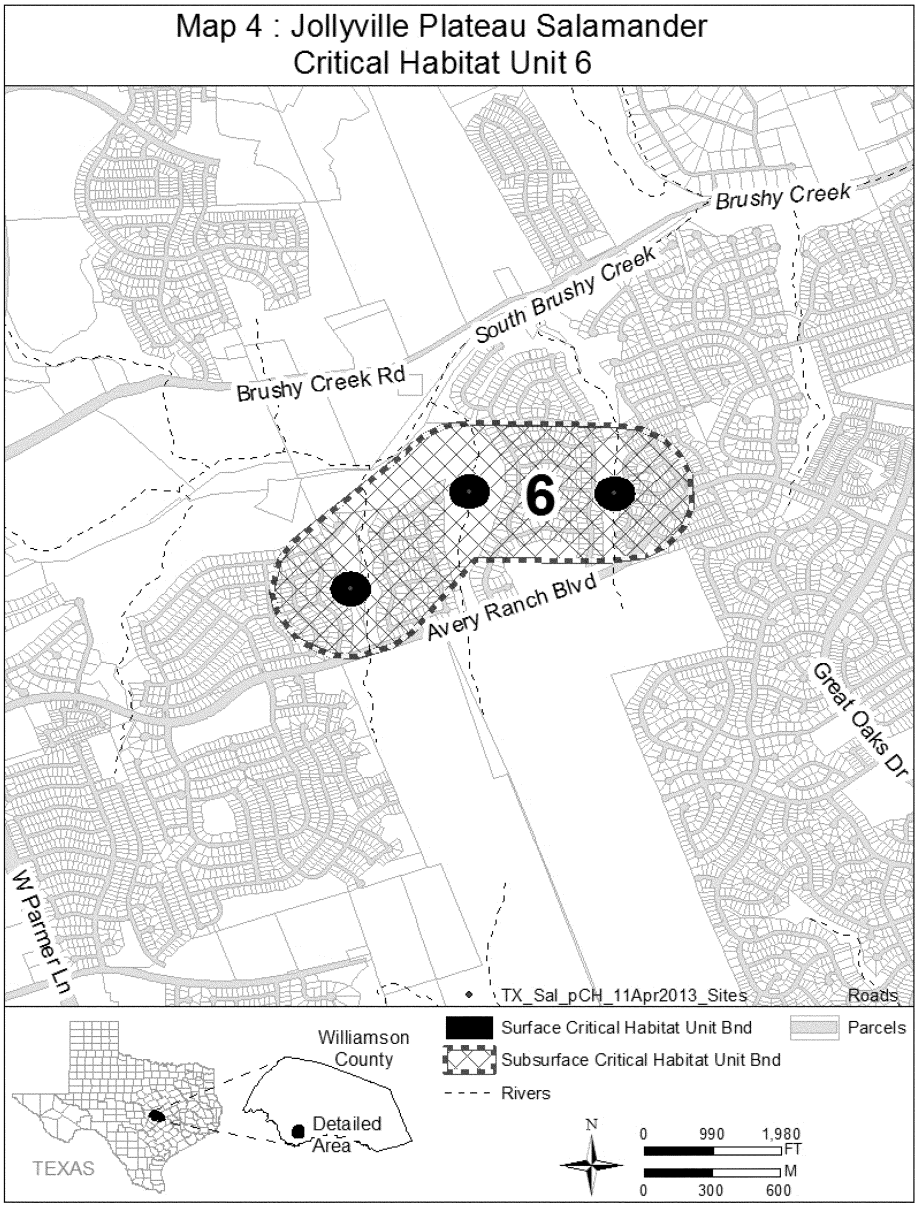
(7) Unit 2: Brushy Creek Spring Unit, Williamson County, Texas. Map of Unit 2 follows:



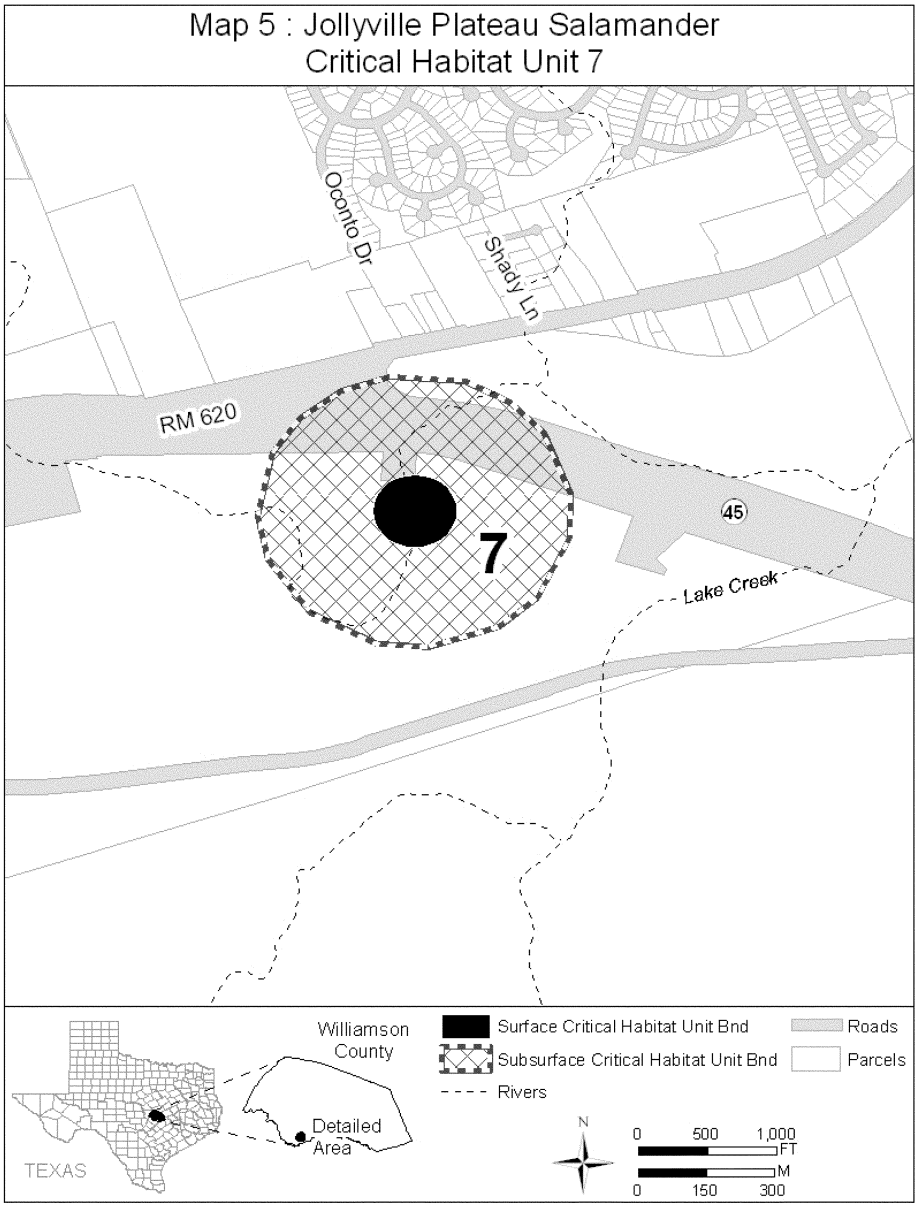
(8) Units 3A, 3B, 3C, 3D, and 3E: Buttercup Creek Units, Williamson and Travis Counties, Texas. Map of Units 3A, 3B, 3C, 3D, and 3E follows:



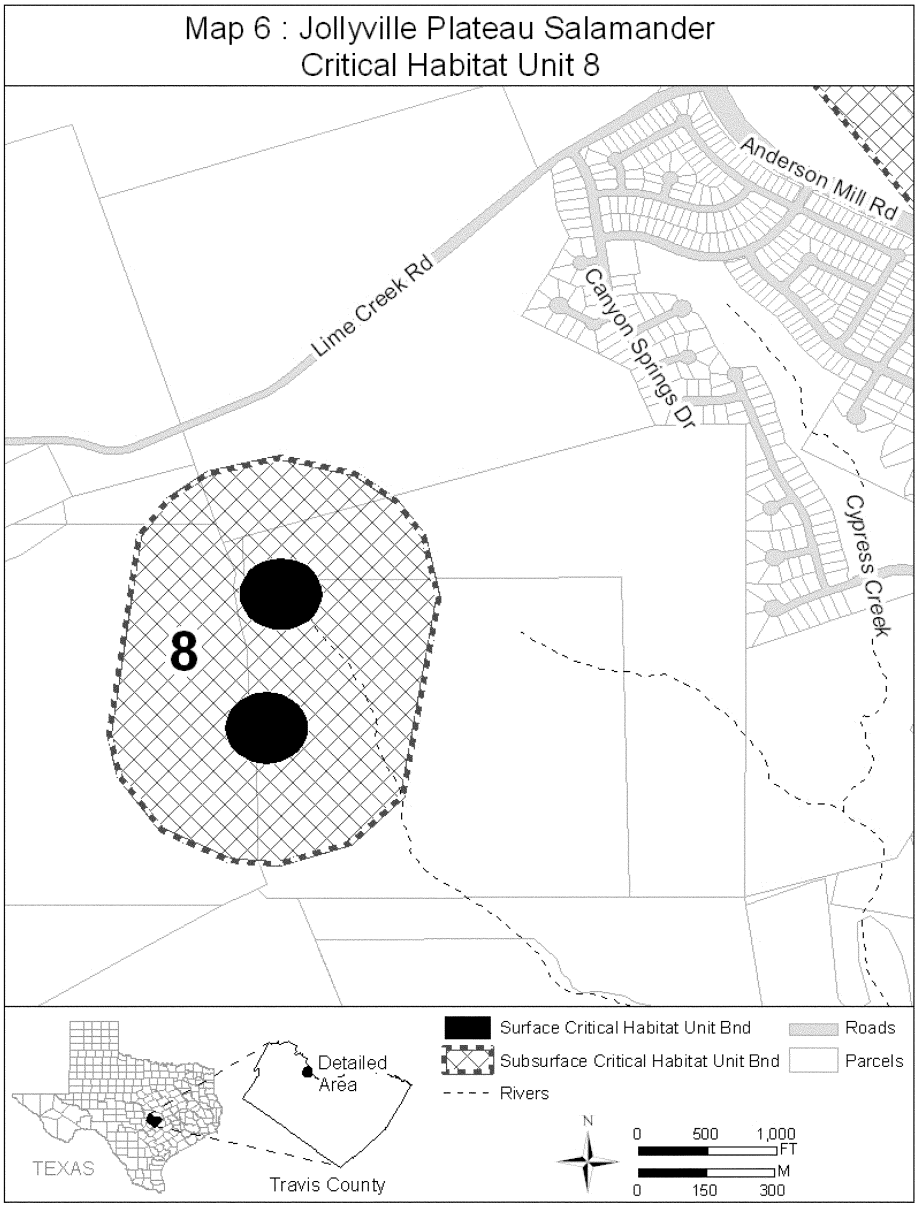
(9) Unit 6: Avery Springs Unit, Williamson County, Texas. Map of Unit 6 follows:



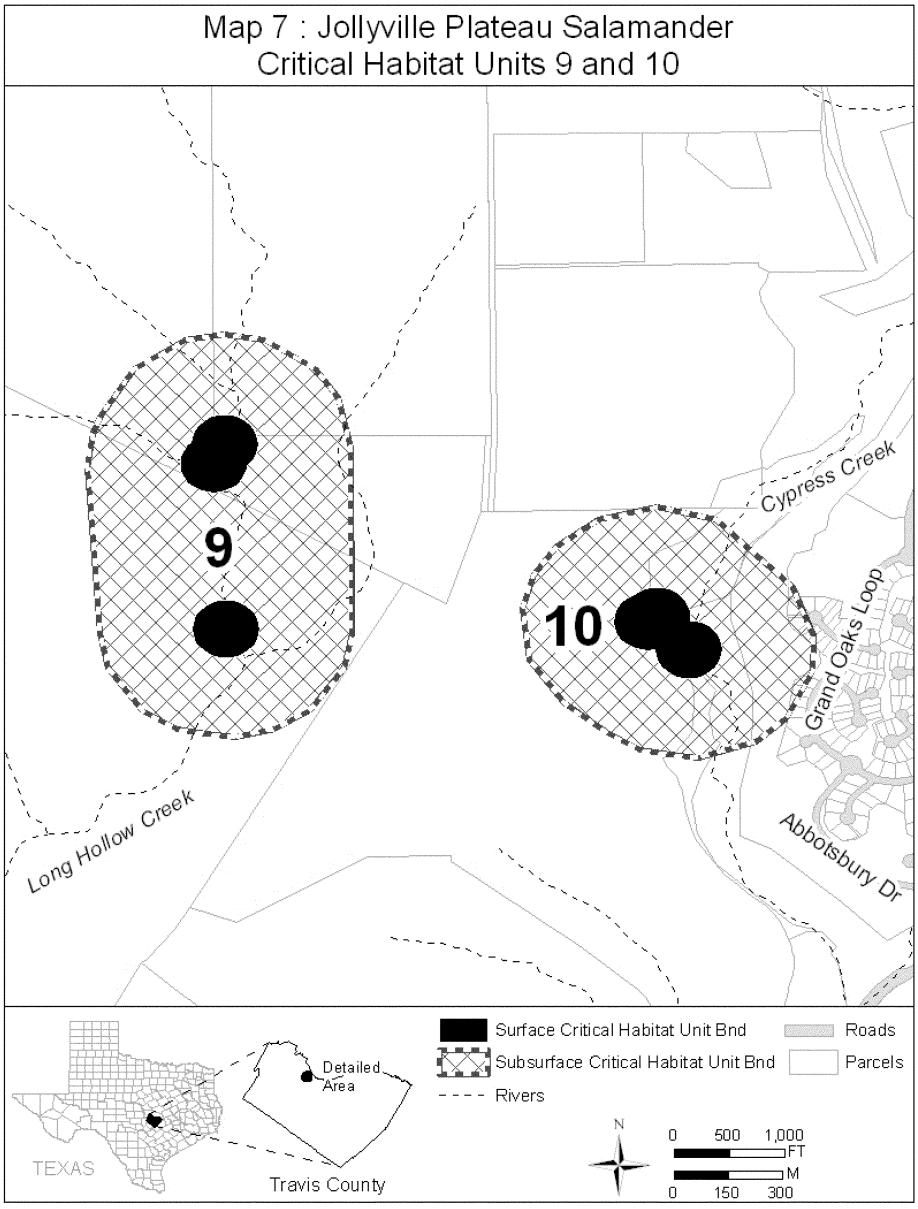
(10) Unit 7: PC Spring Unit, Williamson County, Texas. Map of Unit 7 follows:



(11) Unit 8: Baker and Audubon Spring Unit, Travis County, Texas, Map of Unit 8 follows:

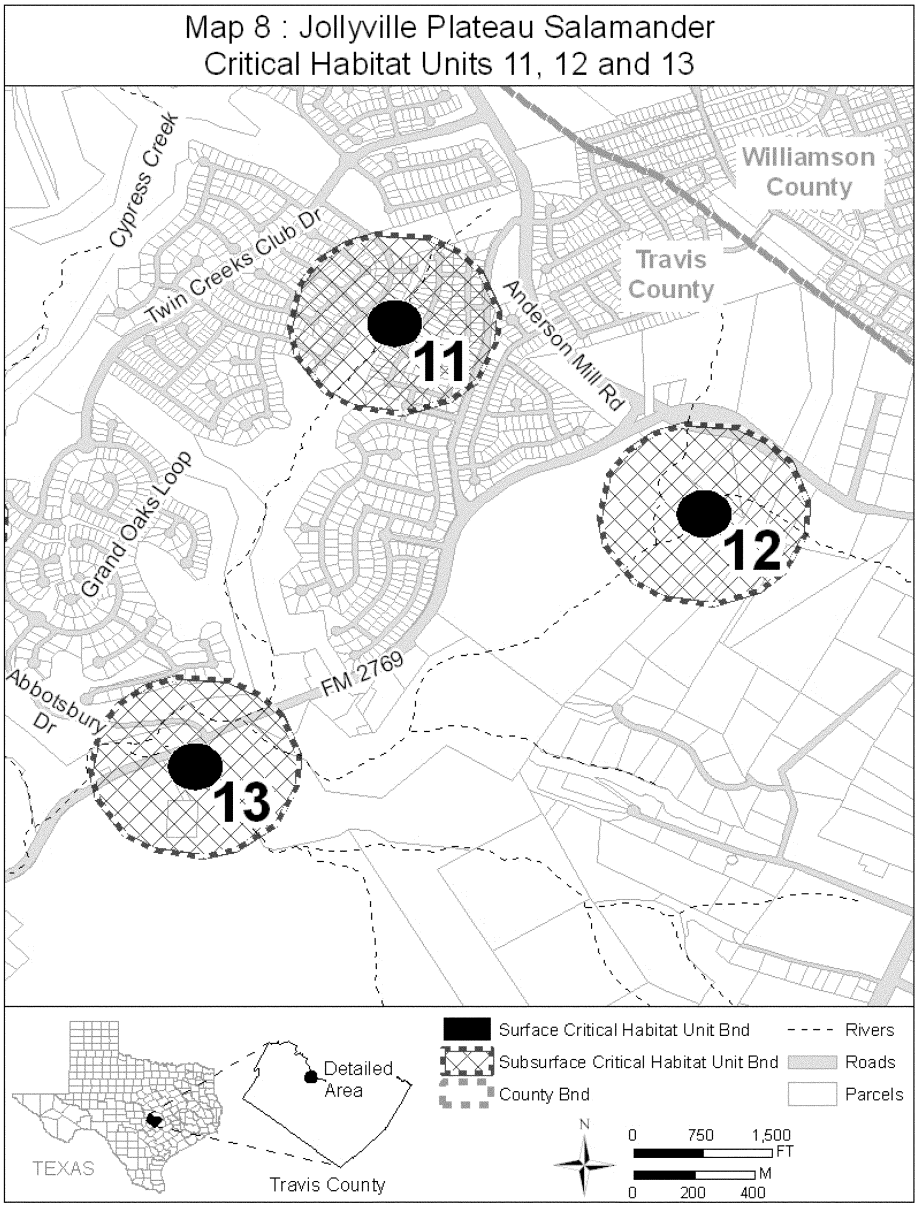


(12) Unit 9: Wheless Spring Unit, Travis County, Texas. Map of Units 9 and 10 follows:



(13) Unit 10: Blizzard R-Bar-B Spring Unit, Travis County, Texas. Map of Units 9 and 10 is provided at paragraph (12) of this entry.

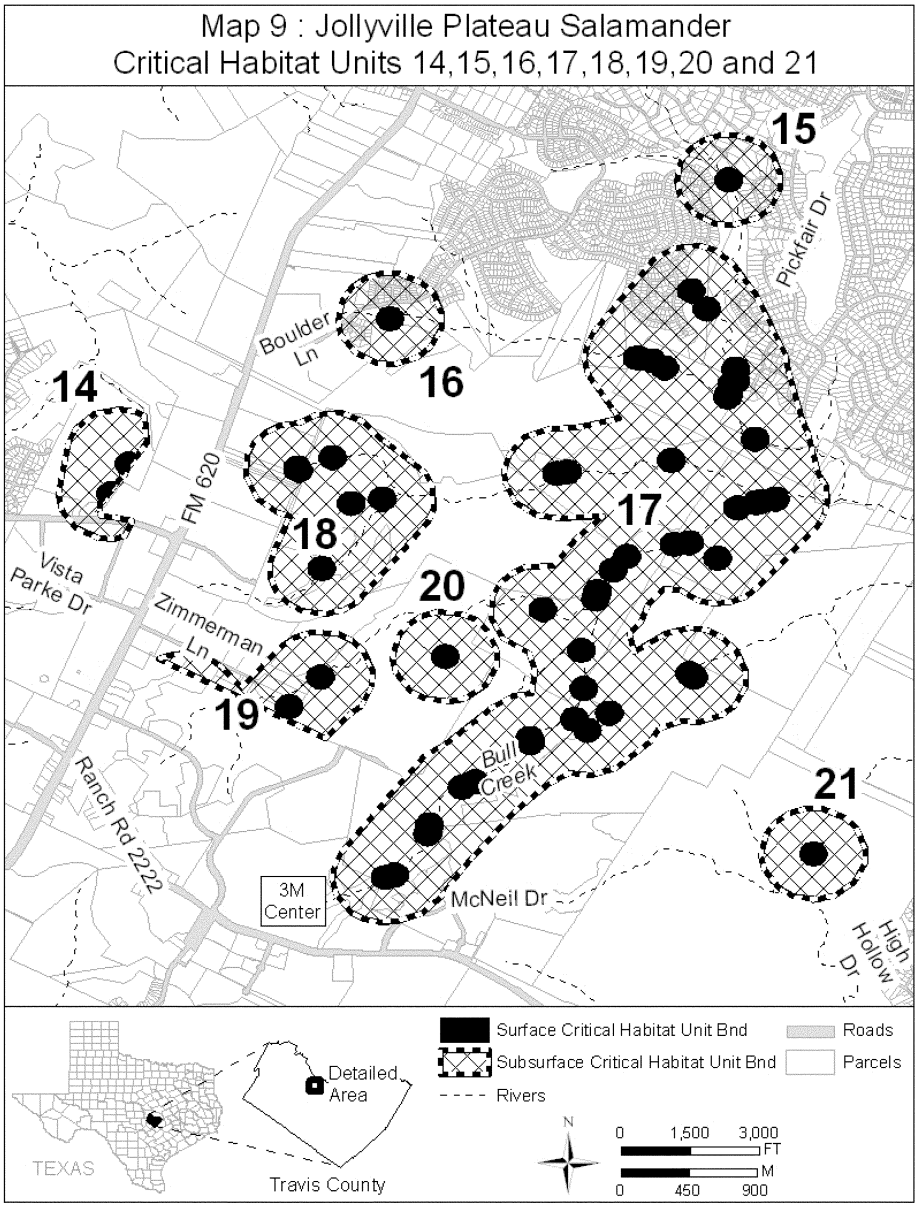
(14) Unit 11: House Spring Unit, Travis County, Texas. Map of Units 11, 12,and 13 follows:



(15) Unit 12: Kelly Hollow Spring Unit, Travis County, Texas. Map of Units 11, 12, and 13 is provided at paragraph (14) of this entry.

(16) Unit 13: MacDonald Well Unit, Travis County, Texas. Map of Units 11, 12, and 13 is provided at paragraph (14) of this entry.

(17) Unit 14: Kretschmarr Unit, Travis County, Texas. Map of Units 14, 15, 16, 17, 18, 19, 20, and 21 follows:



(18) Unit 15: Pope and Hiers Spring Unit, Travis County, Texas. Map of Units 14, 15, 16, 17, 18, 19, 20, and 21 is provided at paragraph (17) of this entry.

(19) Unit 16: Fern Gully Spring Unit, Travis County, Texas. Map of Units 14, 15, 16, 17, 18, 19, 20, and 21 is provided at paragraph (17) of this entry.

(20) Unit 17: Bull Creek 1 Unit, Travis County, Texas. Map of Units 14, 15, 16, 17, 18, 19, 20, and 21 is provided at paragraph (17) of this entry.

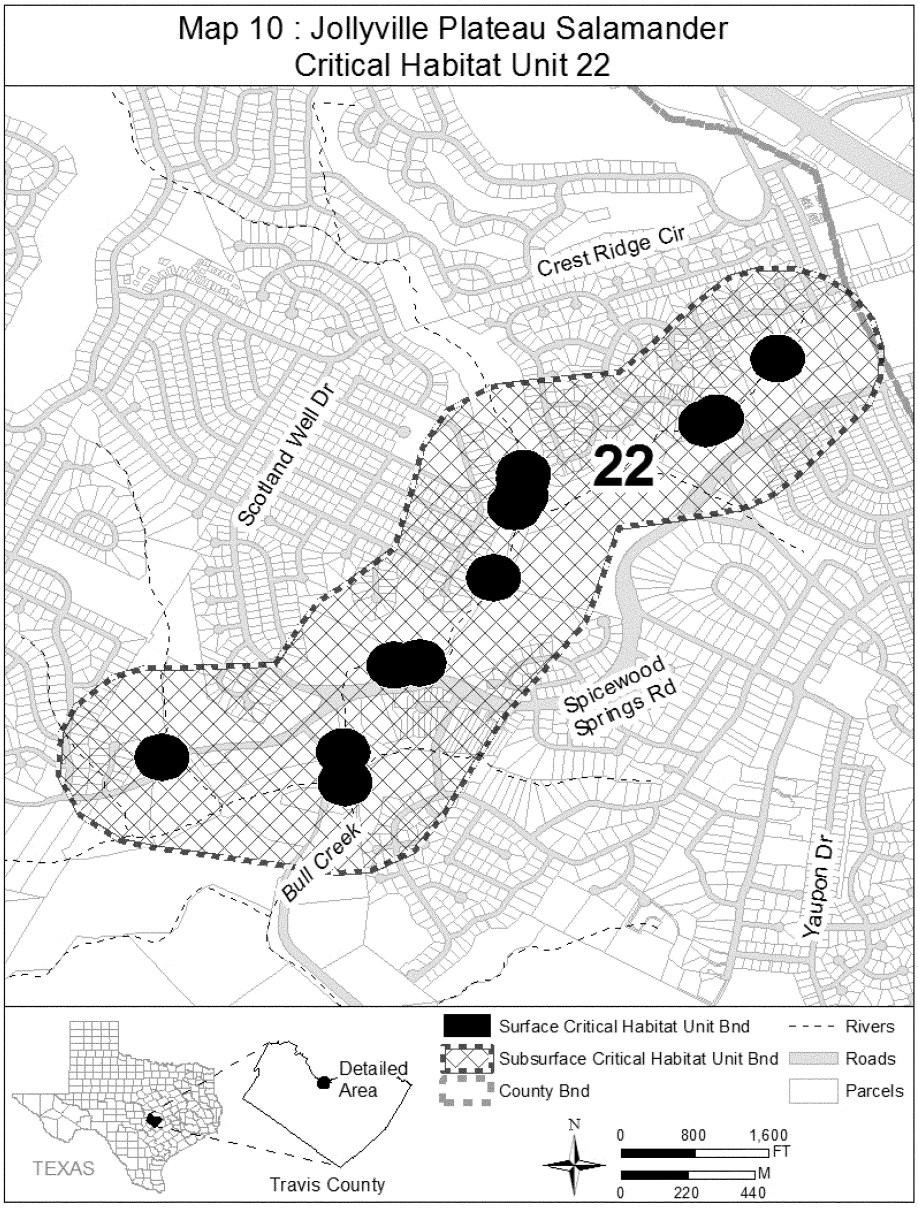
(21) Unit 18: Bull Creek 2 Unit, Travis County, Texas. Map of Units 14, 15, 16, 17, 18, 19, 20, and 21 is provided at paragraph (17) of this entry.

(22) Unit 19: Bull Creek 3 Unit, Travis County, Texas. Map of Units 14, 15, 16, 17, 18, 19, 20, and 21 is provided at paragraph (17) of this entry.

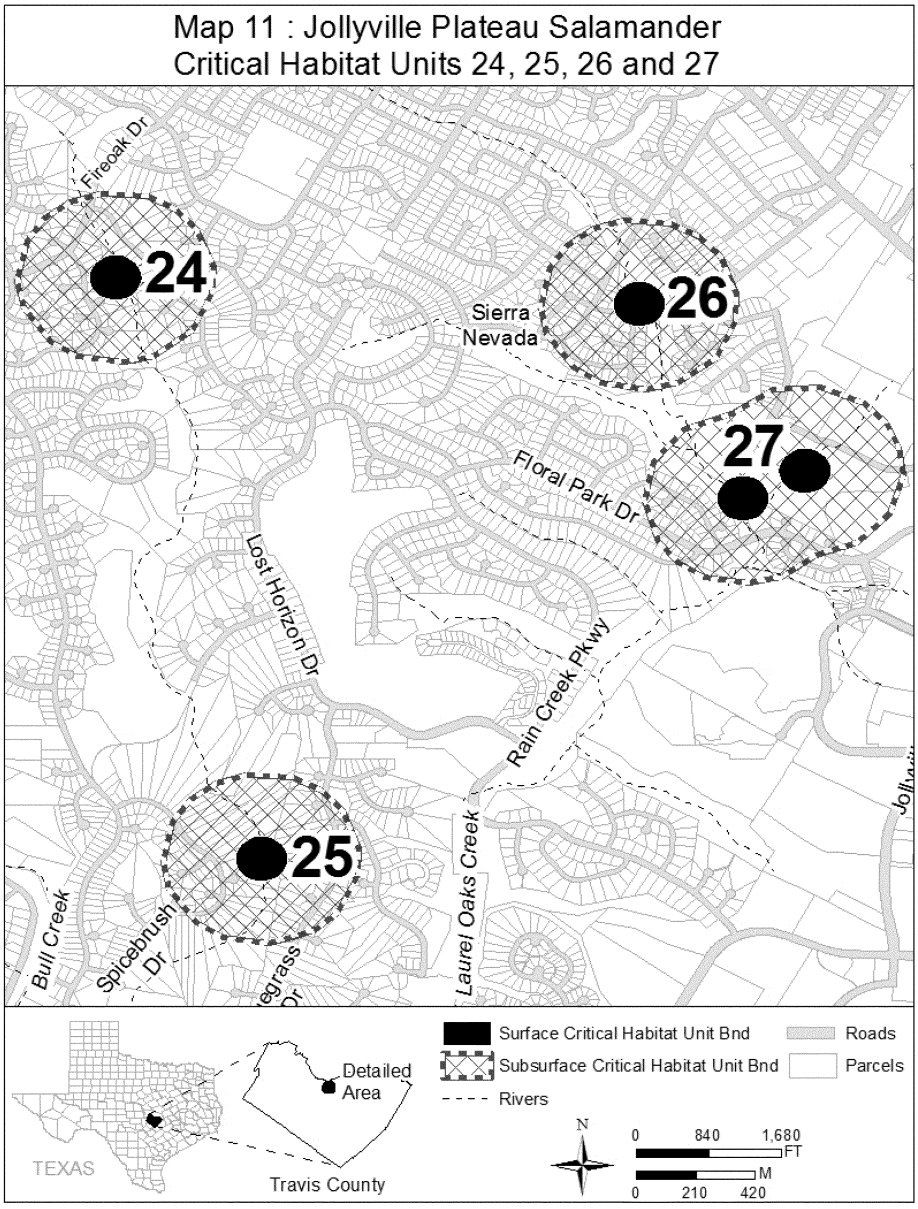
(23) Unit 20: Moss Gully Spring Unit, Travis County, Texas. Map of Units 14, 15, 16, 17, 18, 19, 20, and 21 is provided at paragraph (17) of this entry.

(24) Unit 21: Ivanhoe Spring Unit, Travis County, Texas. Map of Units 14, 15, 16, 17, 18, 19, 20, and 21 is provided at paragraph (17) of this entry.

(25) Unit 22: Sylvia Spring Area Unit, Williamson and Travis Counties, Texas. Map of Unit 22 follows:



(26) Unit 24: Long Hog Hollow Unit, Travis County, Texas. Map of Units 24, 25, 26, and 27 follows:



(27) Unit 25: Tributary 3 Unit, Travis County, Texas. Map of Units 24, 25, 26, and 27 is provided at paragraph (26) of this entry.

(28) Unit 26: Sierra Spring Unit, Travis County, Texas. Map of Units 24, 25, 26, and 27 is provided at paragraph (26) of this entry.

(29) Unit 27: Troll Spring Unit, Travis County, Texas. Map of Units 24, 25, 26, and 27 is provided at paragraph (26) of this entry.

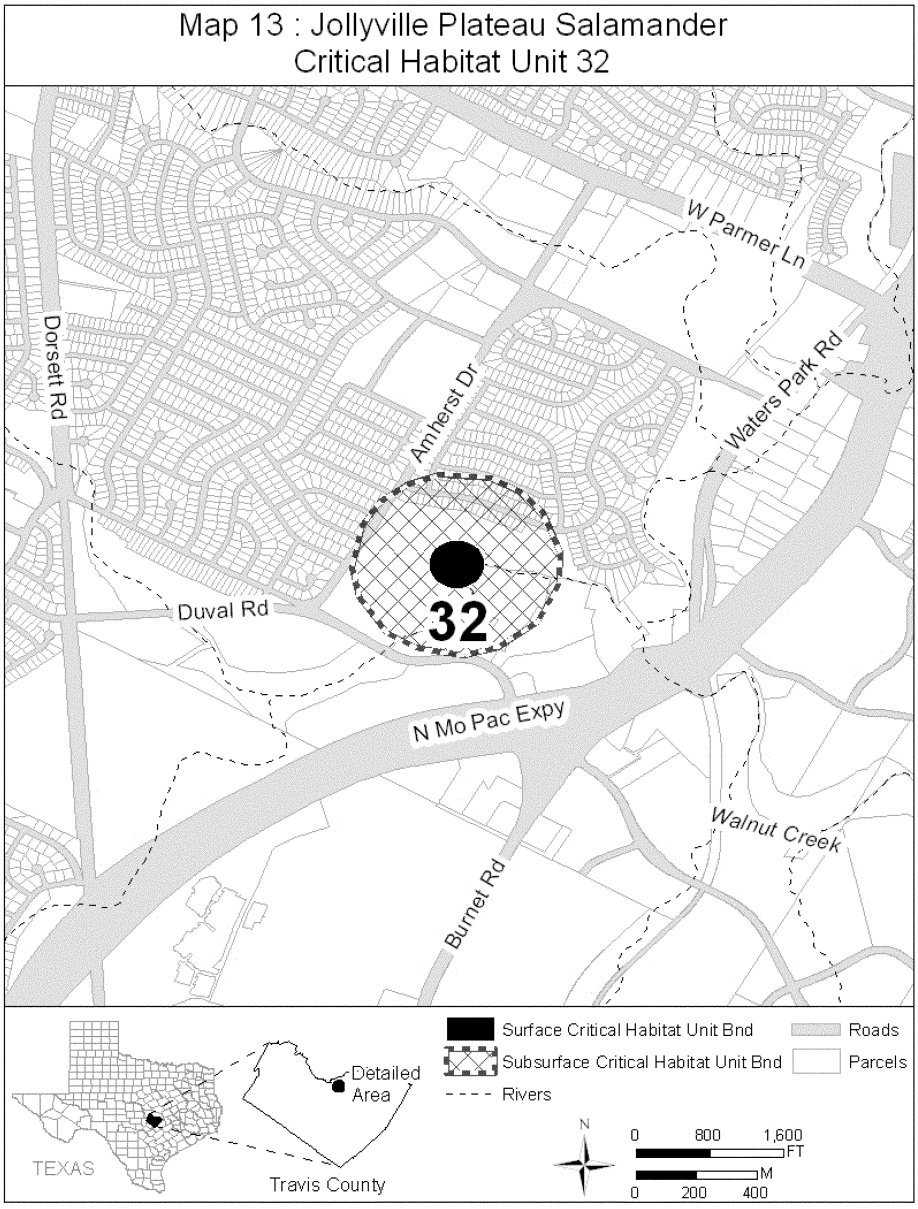
(30) Unit 28: Stillhouse Unit, Travis County, Texas. Map of Units 28, 30, and 31 follows:



(31) Unit 30: Indian Spring Unit, Travis County, Texas. Map of Units 28, 30, and 31 is provided at paragraph (30) of this entry.

(32) Unit 31: Spicewood Spring Unit, Travis County, Texas. Map of Units 28, 30, and 31 is provided at paragraph (30) of this entry.

(33) Unit 32: Balcones District Park Spring Unit, Travis County, Texas. Map of Unit 32 follows:



RETICULATED FLATWOODS SALAMANDER
(*Ambystoma bishopi*)

(1) Critical habitat units are depicted for Calhoun, Holmes, Jackson, Santa Rosa, Walton, and Washington Counties in Florida; and Baker and Miller Counties in Georgia on the maps below. The maps provided are for informational purposes only.

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

(i) *Breeding habitat.* Small (generally less than 1 to 10 ac (less than 0.4 to 4.0 ha)), acidic, depressional standing bodies of freshwater (wetlands) that:

(A) Are seasonally flooded by rainfall in late fall or early winter and dry in late spring or early summer;

(B) Are geographically isolated from other water bodies;

(C) Occur within pine flatwoods-savanna communities;

(D) Are dominated by grasses and grass-like species in the ground layer and overstories of pond-cypress, blackgum, and slash pine;

(E) Have a relatively open canopy, necessary to maintain the herbaceous component that serves as cover for flatwoods salamander larvae and their aquatic invertebrate prey; and

(F) Typically have a burrowing crayfish fauna, but, due to periodic drying, the breeding ponds typically lack large, predatory fish (for example, *Lepomis* (sunfish), *Micropterus* (bass), *Amia calva* (bowfin)).

(ii) *Non-breeding habitat.* Upland pine flatwoods-savanna habitat that is open, mesic woodland maintained by frequent fires and that:

(A) Is within 1,500 ft (457 m) of adjacent and accessible breeding ponds;

(B) Contains crayfish burrows or other underground habitat that the flatwoods salamander depends upon for food, shelter, and protection from the elements and predation;

(C) Has an organic hardpan in the soil profile, which inhibits subsurface water penetration and typically results in moist soils with water often at or near the surface under normal conditions; and

(D) Often has wiregrasses as the dominant grasses in the abundant herbaceous ground cover, which supports the rich herbivorous invertebrates that serve as a food source for the reticulated flatwoods salamander.

(iii) *Dispersal habitat.* Upland habitat areas between nonbreeding and breeding habitat that allows for salamander movement between such sites and that is characterized by:

(A) A mix of vegetation types representing a transition between wetland and upland vegetation (ecotone);

(B) An open canopy and abundant native herbaceous species;

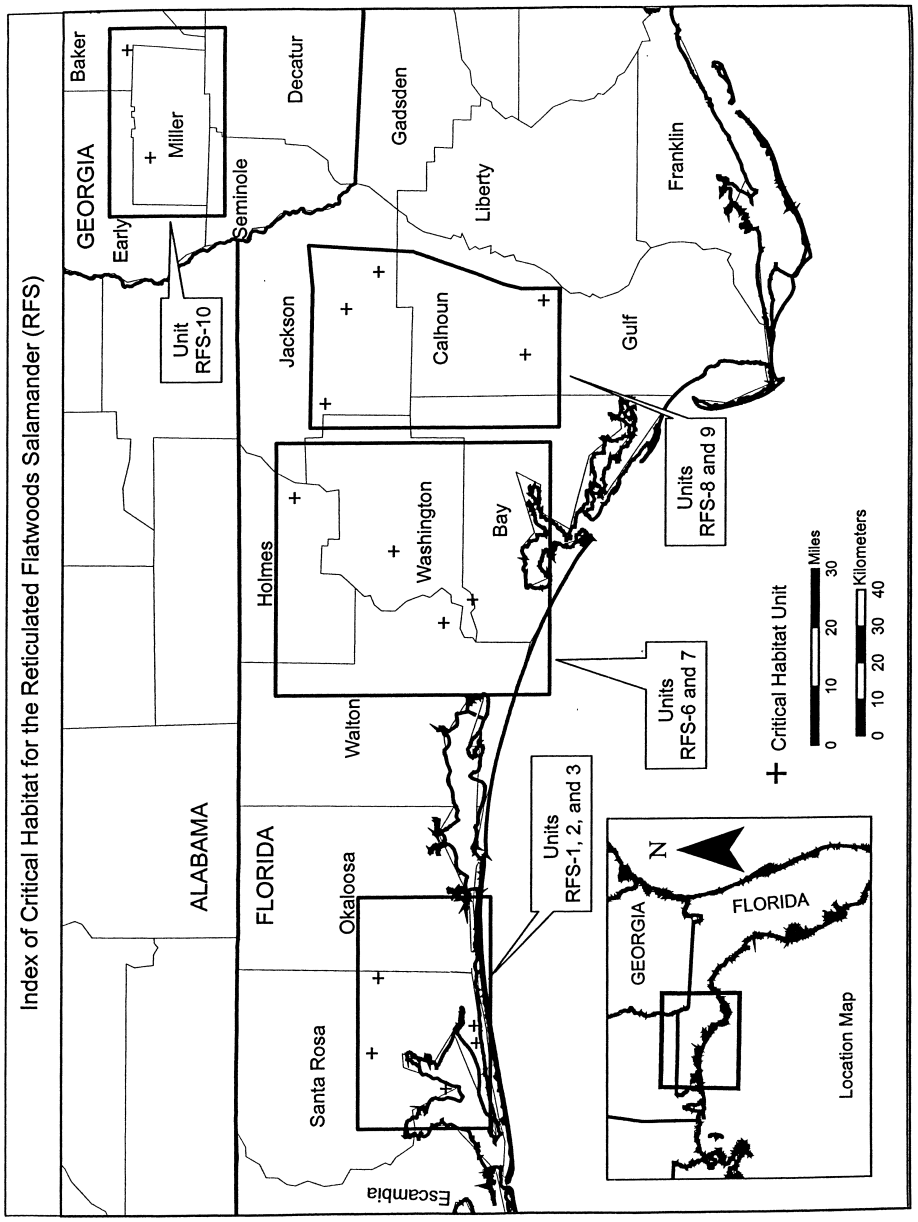
(C) Moist soils as described in paragraph (2)(ii); and

(D) Subsurface structure, such as deep litter cover or burrows that provide shelter for salamanders during seasonal movements.

(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 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 of critical habitat for the reticulated flatwoods salamander follows:



(6) Reticulated flatwood salamander—Calhoun, Holmes, Jackson, Santa Rosa, Walton and Washington Counties, Florida.

(i) Unit RFS–1—Santa Rosa County, Florida. From USGS 1:24,000 scale quadrangle map Garcon Point, Florida.

(A) Land bounded by the following UTM Zone 16N, North American Datum of 1983 (NAD83) coordinates, (E, N): 492983.94, 3372029.94; 493099.21, 3373387.45; 493154.87, 3373453.03; 493198.40, 3373490.44; 493271.61, 3373535.60; 493351.98, 3373566.25; 493436.67,

3373581.30; 493522.69, 3373580.20; 493551.12, 3373576.25; 493606.97, 3373563.02; 493686.54, 3373530.34; 493735.56, 3373500.50; 493801.14, 3373444.83; 493838.55, 3373401.30; 493870.20, 3373353.43; 493905.84, 3373275.14; 493921.15, 3373219.82; 493930.85, 3373134.35; 493928.32, 3373077.01; 493918.62, 3373020.45; 493901.91, 3372965.54; 492974.90, 3370886.40; 492965.68, 3370859.21; 492954.77, 3370832.65; 492942.22, 3370806.83; 492928.07, 3370781.84; 492912.38, 3370757.80; 492895.22, 3370734.79; 492876.64, 3370712.90; 492856.72, 3370692.22; 492835.54, 3370672.83; 492813.19, 3370654.81; 492789.75, 3370638.23; 492765.32, 3370623.16; 492739.98, 3370609.64; 492713.85, 3370597.75; 492687.03, 3370587.52; 492659.61, 3370578.99; 492631.71, 3370572.21; 492603.45, 3370567.18; 492574.92, 3370563.95; 492546.24, 3370562.51; 492517.54, 3370562.87; 492488.91, 3370565.04; 492460.47, 3370568.99; 492432.34, 3370574.73; 492404.62, 3370582.22; 492377.43, 3370591.44; 492350.87, 3370602.35; 492320.06, 3370618.11; 492291.54, 3370614.88; 492262.86, 3370613.44; 492234.15, 3370613.80; 492205.52, 3370615.97; 492177.09, 3370619.93; 492148.96, 3370625.66; 492121.24, 3370633.16; 492094.05, 3370642.37; 492067.49, 3370653.28; 492041.67, 3370665.83; 492016.69, 3370679.98; 491992.64, 3370695.67; 491969.63, 3370712.84; 491947.74, 3370731.42; 491927.07, 3370751.34; 491907.68, 3370772.52; 491889.66, 3370794.87; 491873.08, 3370818.31; 491858.01, 3370842.75; 491850.37, 3370857.07; 491865.61, 3370901.72; 491918.43, 3370965.16; 491965.55, 3371021.75; 492011.53, 3371083.74; 492053.38, 3371140.16; 492103.93, 3371212.08; 492141.72, 3371264.53; 492176.37, 3371309.64; 492207.14, 3371351.35; 492243.74, 3371397.83; 492283.27, 3371453.23; 492331.51, 3371520.83; 493069.37, 3373338.43; 493099.21, 3373387.45.

(B) *Note:* Map depicting Unit RFS–1 is provided at paragraph (6)(v)(B) of this entry.

(ii) Unit RFS–2, Subunit A—Santa Rosa County, Florida. From USGS 1:24,000 scale quadrangle map Harold, Florida.

(A) Land bounded by the following UTM Zone 16N, North American Datum of 1983 (NAD83) coordinates, (E, N): 501542.20, 3392876.13; 501578.50, 3392420.55; 501549.82, 3392419.17; 501521.11, 3392419.59; 501492.49, 3392421.82; 501464.06, 3392425.84; 501435.94, 392431.63; 501408.24, 3392439.18; 501381.07, 3392448.45; 501354.53, 3392459.42; 501328.74, 3392472.02; 501303.78, 3392486.22; 501279.77, 3392501.96; 501256.80, 392519.18; 501234.95, 3392537.80; 501214.31, 3392557.76; 501194.97, 3392578.98; 501176.99, 3392601.37; 501160.46, 3392624.84; 501145.44, 3392649.31; 501131.98, 392674.67; 501120.14, 3392700.83; 501109.96, 3392727.67; 501101.49, 3392755.11; 501094.76, 3392783.02; 501089.80, 3392811.30; 501086.62, 3392839.83; 501085.24, 392868.51; 501085.25, 3392868.93; 501085.66, 3392897.21; 501086.27, 3392904.98; 501087.89, 3392925.84; 501091.91, 3392954.27; 501097.70, 3392982.39; 501105.25, 393010.09; 501114.52, 3393037.26; 501125.49, 3393063.80; 501138.09, 3393089.59; 501152.29, 3393114.54; 501168.03, 3393138.56; 501185.25, 3393161.53; 501203.87, 393183.38; 501223.83, 3393204.02; 501245.05, 3393223.36; 501267.44, 3393241.33; 501290.91, 3393257.87; 501315.38, 3393272.89; 501340.74, 3393286.35; 501366.90, 393298.19; 501393.74, 3393308.36; 501421.18, 3393316.83; 501449.09, 3393323.56; 501477.37, 3393328.53; 501505.90, 3393331.70; 501534.58, 3393333.08; 501563.29, 393332.66; 501584.95, 3393330.98; 501591.91, 3393330.44; 501613.98, 3393327.32; 501620.34, 3393326.42; 501648.46, 3393320.62; 501676.16, 3393313.07; 501703.33, 393303.80; 501729.87, 3393292.84; 501755.66, 3393280.23; 501780.61, 3393266.03; 501804.63, 3393250.29; 501827.60, 3393233.08; 501849.45, 3393214.45; 501870.09, 393194.49; 501889.43, 3393173.27; 501907.41, 3393150.89; 501923.94, 3393127.41; 501938.96, 3393102.95; 501952.42, 3393077.59; 501964.26, 3393051.43; 501974.44, 393024.58; 501982.91, 3392997.15; 501989.64, 3392969.24; 501994.60, 3392940.96; 501997.78, 3392912.43; 501999.16, 3392883.75; 501998.73, 3392855.04; 501996.51, 392826.42; 501992.49, 3392797.99; 501986.70, 3392769.87; 501979.15, 3392742.17; 501969.87, 3392715.00; 501958.91, 3392688.46; 501946.31, 3392662.66; 501932.11, 392637.71; 501916.37, 3392613.70; 501899.15, 3392590.72; 501880.52, 3392568.87; 501860.56, 3392548.24; 501839.35, 3392528.89; 501816.96, 3392510.92; 501793.48, 392494.39; 501769.02, 3392479.36; 501743.66, 3392465.90; 501717.50, 3392454.06; 501690.66, 3392443.89; 501663.22, 3392435.42; 501635.31, 3392428.69; 501607.03, 3392423.73; 501578.50, 3392420.55.

(B) *Note:* Map depicting Unit RFS–2, Subunit A is provided at paragraph (6)(v)(B) of this entry.

(iii) Unit RFS–2, Subunit B—Santa Rosa County, Florida. From USGS 1:24,000 scale quadrangle map Floridale, Florida.

(A) Land bounded by the following UTM Zone 16N NAD83 coordinates, (E, N): 518978.93, 3390847.46; 519015.23, 3390391.88; 518986.55, 3390390.50; 518957.84, 3390390.92; 518929.22, 3390393.14; 518900.79, 3390397.16; 518872.67, 390402.96; 518844.97, 3390410.51; 518817.80, 3390419.78; 518791.26, 3390430.74; 518765.46, 3390443.35; 518740.51, 3390457.55; 518716.50, 3390473.29; 518693.52, 3390490.50; 518671.67, 3390509.13; 518651.04, 3390529.09; 518631.69, 3390550.31; 518613.72, 3390572.70; 518597.19, 3390596.17; 518582.16, 3390620.64; 518568.70, 3390646.00; 518556.86, 3390672.15; 518546.69, 3390699.00; 518538.22, 3390726.43; 518531.49, 3390754.34; 518526.53, 3390782.62; 518523.35, 3390811.16; 518521.97, 3390839.83; 518522.39, 3390868.54; 518524.62, 3390897.17; 518528.63, 3390925.59; 518534.43, 3390953.71; 518541.98, 3390981.41; 518551.25, 3391008.59; 518562.21, 3391035.12; 518574.82, 3391060.92; 518589.02, 3391085.87; 518604.76, 3391109.88; 518621.98, 3391132.86; 518640.60, 3391154.71; 518660.56, 3391175.35; 518681.78, 3391194.69; 518704.17, 3391212.66; 518727.64, 3391229.19; 518752.11, 3391244.22; 518777.47, 3391257.68; 518803.62, 3391269.52; 518830.47, 3391279.69; 518857.91, 3391288.16; 518885.82, 3391294.89; 518914.10, 3391299.86; 518942.63, 3391303.03;

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(B) *Note:* Map depicting Unit RFS–2, Subunit B is provided at paragraph (6)(v)(B) of this entry.

(iv) Unit RFS–3, Subunit A—Santa Rosa County, Florida. From USGS 1:24,000 scale quadrangle map Holley, Florida.

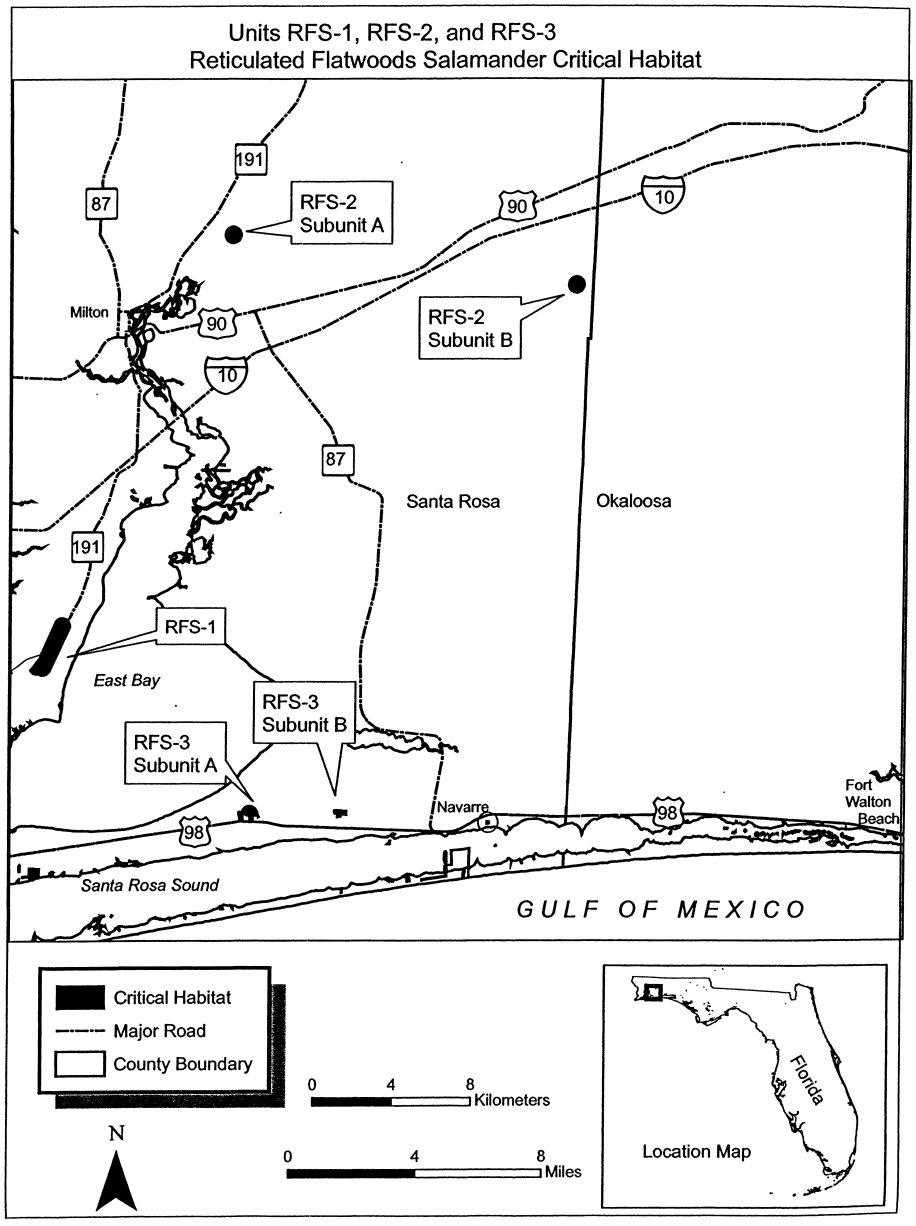
(A) Land bounded by the following UTM Zone 16N NAD83 coordinates, (E, N): 503177.78, 3363967.21; 503665.03, 3364056.93; 503673.05, 3364029.36; 503679.32, 3364001.35; 503683.82, 3363972.99; 503686.53, 3363944.41; 503687.44, 3363915.71; 503694.98, 3363896.36; 503703.23, 3363884.01; 503713.36, 3363875.67; 503720.87, 3363866.60; 503726.39, 3363857.48; 503733.34, 3363843.78; 503741.25, 3363818.20; 503752.72, 3363782.15; 503757.95, 3363757.83; 503766.30, 3363741.51; 503653.07, 3363742.06; 503644.01, 3363721.11; 503630.98, 3363695.52; 503615.44, 3363669.75; 503614.55, 3363724.18; 503603.43, 3363777.35; 503601.27, 3363799.83; 503594.64, 3363834.69; 503563.00, 3363831.09; 503563.97, 3363824.67; 503558.81, 3363820.93; 503559.46, 3363811.37; 503555.68, 3363800.73; 503543.49, 3363787.96; 503527.75, 3363771.89; 503514.02, 3363772.76; 503464.40, 3363773.57; 503448.85, 3363749.85; 503448.44, 3363558.27; 503320.62, 3363559.79; 503273.43, 3363560.71; 503273.49, 3363572.75; 503279.14, 3363573.95; 503279.03, 3363592.72; 503284.42, 3363598.55; 503277.70, 3363622.86; 503272.12, 3363658.96; 503257.00, 3363659.53; 503220.26, 3363657.70; 503211.46, 3363656.94; 503211.34, 3363632.86; 503198.99, 3363600.69; 503189.65, 3363605.42; 503175.37, 3363661.31; 503174.55, 3363690.00; 503175.30, 3363735.30; 503170.12, 3363757.64; 503161.91, 3363768.67; 503127.37, 3363773.12; 503100.70, 3363791.93; 503033.44, 3363790.29; 502978.97, 3363827.84; 502954.55, 3363827.72; 502938.01, 3363827.31; 502928.95, 3363818.51; 502929.56, 3363685.06; 502929.74, 3363569.45; 502821.80, 3363570.13; 502821.27, 3363591.92; 502814.36, 3363603.64; 502789.75, 3363608.33; 502751.22, 3363613.34; 502704.61, 3363624.01; 502670.48, 3363639.13; 502640.35, 3363788.37; 502630.38, 3363844.28; 502624.76, 3363884.45; 502620.15, 3363937.85; 502612.79, 3363995.15; 502605.87, 3364010.90; 502632.10, 3364030.43; 502667.63, 3364049.11; 502682.24, 3364047.48; 502713.23, 3364052.86; 502771.52, 3364051.63; 502794.68, 3364052.20; 502805.45, 3364083.69; 502816.85, 3364110.04; 502829.87, 3364135.63; 502844.48, 3364160.34; 502860.61, 3364184.09; 502878.20, 3364206.79; 502897.18, 3364228.33; 502917.48, 3364248.63; 502939.01, 3364267.63; 502961.69, 3364285.23; 502985.43, 3364301.38; 503010.14, 3364316.00; 503035.71, 3364329.04; 503062.06, 3364340.45; 503089.07, 3364350.18; 503116.64, 3364358.20; 503144.65, 3364364.47; 503173.01, 3364368.97; 503201.59, 3364371.69; 503230.29, 3364372.60; 503258.99, 3364371.70; 503287.57, 3364369.01; 503315.93, 3364364.53; 503343.95, 3364358.27; 503371.52, 3364350.27; 503398.54, 3364340.55; 503424.89, 3364329.16; 503450.47, 3364316.13; 503475.19, 3364301.52; 503498.94, 3364285.39; 503521.63, 3364267.80; 503543.18, 3364248.82; 503563.48, 3364228.53; 503582.48, 3364207.00; 503600.08, 3364184.32; 503616.23, 3364160.57; 503630.85, 3364135.87; 503643.89, 3364110.29; 503655.30, 3364083.94; 503665.03, 3364056.93.

(B) *Note:* Map depicting Unit RFS–3, Subunit A is provided at paragraph (6)(v)(B) of this entry.

(v) Unit RFS–3, Subunit B—Santa Rosa County, Florida. From USGS 1:24,000 scale quadrangle map Holley, Florida.

(A) Land bounded by the following UTM Zone 16N NAD83 coordinates, (E, N): 507814.78, 3364090.74; 508038.93, 3364260.63; 508159.63, 3364258.28; 508158.08, 3364132.67; 508156.37, 3364018.27; 508155.42, 3363957.25; 508106.06, 3363958.06; 508068.35, 3363958.68; 508035.07, 3363959.24; 507887.21, 3363961.45; 507885.38, 3363855.42; 507685.15, 3363855.35; 507684.90, 3363837.37; 507612.21, 3363836.12; 507612.77, 3363907.73; 507612.90, 3363927.61; 507638.84, 3363928.05; 507638.99, 3363940.21; 507583.59, 3364018.73; 507491.86, 3364016.60; 507493.27, 3364096.55; 507471.91, 3364096.05; 507455.12, 3364095.65; 507457.47, 3364243.92; 507529.64, 3364243.19; 507566.34, 3364270.07; 507830.20, 3364271.25; 507890.35, 3364271.37; 507890.09, 3364262.80; 507967.94, 3364261.67; 508038.93, 3364260.63.

(B) *Note:* Map of Units RFS–1, RFS–2, and RFS–3 follows:



(vi) Unit RFS–6, Subunit A—Walton County, Florida. From USGS 1:24,000 scale quadrangle map Bruce, Florida.

(A) Land bounded by the following UTM Zone 16N, NAD83 coordinates (E, N): 601647.75, 3373576.77; 601493.33, 3374109.03; 601522.04, 3374108.60; 601550.67, 3374106.38; 601579.10, 3374102.36; 601607.23, 3374096.56; 601634.93, 3374089.01; 601662.11, 3374079.74; 601688.65, 3374068.77; 601714.44, 3374056.17; 601739.40, 3374041.96; 601763.41, 3374026.22; 601786.39, 3374009.00; 601808.25, 3373990.37;

601828.89, 3373970.41; 601848.23, 3373949.19; 601866.21, 3373926.80; 601882.74, 3373903.32; 601897.76, 3373878.85; 601911.23, 3373853.49; 601923.07, 3373827.33; 601933.24, 3373800.48; 601941.71, 3373773.04; 601948.44, 3373745.13; 601953.40, 3373716.84; 601956.58, 3373688.31; 601957.96, 3373659.62; 601957.54, 3373630.91; 601955.31, 3373602.29; 601951.29, 3373573.85; 601945.50, 3373545.73; 601937.95, 3373518.03; 601932.81, 3373498.30; 602077.97, 3373412.75; 602148.71, 3373370.38; 602189.04, 3373346.29; 602226.02, 3373324.08; 602242.81, 3373314.59; 602251.57, 3373308.87; 602249.73, 3373302.87; 602248.52, 3373298.22; 602244.07, 3373290.84; 602232.30, 3373285.25; 602226.49, 3373279.16; 602219.36, 3373273.03; 602212.40, 3373260.30; 602203.50, 3373245.54; 602189.89, 3373207.54; 602185.07, 3373188.25; 602182.00, 3373178.92; 602174.92, 3373170.82; 602167.16, 3373163.35; 602161.52, 3373150.66; 602159.44, 3373128.14; 602152.20, 3373073.77; 602147.72, 3373041.28; 602068.26, 3373014.83; 602046.87, 3372996.45; 602018.93, 3372975.27; 601977.95, 3372972.42; 601920.70, 3372984.20; 601893.12, 3373001.35; 601867.36, 3373025.15; 601844.26, 3373048.36; 601816.50, 3373072.78; 601799.99, 3373071.04; 601789.68, 3373059.55; 601764.95, 3373042.41; 601751.13, 3373012.99; 601725.10, 3372994.49; 601700.34, 3373005.10; 601680.55, 3373028.40; 601659.92, 3373058.94; 601630.17, 3373083.30; 601595.72, 3373083.76; 601568.63, 3373081.76; 601562.85, 3373153.48; 601546.32, 3373152.40; 601512.87, 3373139.67; 601482.57, 3373133.62; 601457.54, 3373128.37; 601443.06, 3373124.70; 601441.20, 3373198.67; 601422.79, 3373201.67; 601394.66, 3373207.46; 601366.96, 3373215.01; 601339.78, 3373224.29; 601313.25, 3373235.25; 601287.45, 3373247.86; 601262.49, 3373262.06; 601238.48, 3373277.81; 601215.50, 3373295.02; 601193.65, 3373313.65; 601173.01, 3373333.62; 601153.66, 3373354.84; 601135.69, 3373377.23; 601119.15, 3373400.70; 601104.13, 3373425.17; 601090.67, 3373450.54; 601078.83, 3373476.70; 601068.65, 3373503.55; 601060.18, 3373530.98; 601053.45, 3373558.90; 601048.49, 3373587.18; 601045.31, 3373615.72; 601043.93, 3373644.40; 601044.35, 3373673.11; 601046.58, 3373701.74; 601050.60, 3373730.17; 601056.39, 3373758.30; 601063.95, 3373786.00; 601073.22, 3373813.17; 601084.18, 3373839.71; 601096.79, 3373865.51; 601111.00, 3373890.47; 601126.74, 3373914.48; 601143.96, 3373937.46; 601162.58, 3373959.31; 601182.55, 3373979.95; 601203.77, 3373999.30; 601226.16, 3374017.27; 601249.64, 3374033.81; 601274.11, 3374048.83; 601299.47, 3374062.29; 601325.63, 3374074.13; 601352.48, 3374084.31; 601379.92, 3374092.78; 601407.83, 3374099.51; 601436.11, 3374104.47; 601464.65, 3374107.65; 601493.33, 3374109.03.

(B) *Note:* Map depicting Unit RFS–6, Subunit A is provided at paragraph (6)(ix)(B) of this entry.

(vii) Unit RFS–6, Subunit B—Washington County, Florida. From USGS 1:24,000 scale quadrangle map Bruce, Florida.

(A) Land bounded by the following UTM Zone 16N, NAD83 coordinates (E, N): 607444.16, 3365585.74; 607435.59, 3366042.75; 607464.30, 3366042.38; 607492.93, 3366040.22; 607521.37, 3366036.26; 607549.51, 3366030.52; 607577.23, 3366023.03; 607604.42, 3366013.81; 607630.98, 3366002.90; 607656.81, 3365990.35; 607681.79, 3365976.20; 607705.84, 3365960.50; 607728.86, 3365943.33; 607750.75, 3365924.75; 607771.43, 3365904.83; 607790.82, 3365883.65; 607808.84, 3365861.30; 607825.42, 3365837.85; 607840.50, 3365813.42; 607854.02, 3365788.08; 607865.91, 3365761.94; 607876.14, 3365735.11; 607884.67, 3365707.70; 607891.46, 3365679.79; 607896.48, 3365651.52; 607899.72, 3365622.99; 607901.16, 3365594.31; 607900.79, 3365565.60; 607898.63, 3365536.97; 607894.67, 3365508.53; 607888.93, 3365480.39; 607881.44, 3365452.67; 607872.22, 3365425.48; 607861.31, 3365398.91; 607848.76, 3365373.09; 607834.61, 3365348.10; 607818.91, 3365324.06; 607801.74, 3365301.04; 607783.16, 3365279.15; 607763.24, 3365258.47; 607742.06, 3365239.08; 607719.71, 3365221.06; 607696.26, 3365204.48; 607671.83, 3365189.40; 607646.49, 3365175.88; 607620.36, 3365163.99; 607593.53, 3365153.76; 607566.11, 3365145.23; 607538.21, 3365138.44; 607509.93, 3365133.42; 607481.40, 3365130.18; 607452.72, 3365128.74; 607424.01, 3365129.11; 607395.38, 3365131.27; 607366.94, 3365135.23; 607338.80, 3365140.97; 607311.08, 3365148.46; 607283.89, 3365157.68; 607257.33, 3365168.59; 607231.50, 3365181.14; 607206.52, 3365195.29; 607182.47, 3365210.99; 607159.45, 3365228.16; 607137.56, 3365246.74; 607116.88, 3365266.66; 607097.49, 3365287.84; 607079.47, 3365310.19; 607062.89, 3365333.64; 607047.81, 3365358.07; 607034.30, 3365383.41; 607022.40, 3365409.54; 607012.17, 3365436.37; 607003.64, 3365463.79; 606996.85, 3365491.69; 606991.83, 3365519.97; 606988.59, 3365548.50; 606987.15, 3365577.18; 606987.52, 3365605.89; 606989.68, 3365634.52; 606993.64, 3365662.96; 606999.38, 3365691.10; 607006.87, 3365718.82; 607016.09, 3365746.01; 607027.00, 3365772.57; 607039.55, 3365798.40; 607053.70, 3365823.38; 607069.40, 3365847.43; 607086.57, 3365870.45; 607105.15, 3365892.34; 607125.07, 3365913.02; 607146.25, 3365932.41; 607168.60, 3365950.43; 607192.05, 3365967.01; 607216.48, 3365982.09; 607241.82, 3365995.60; 607267.95, 3366007.50; 607294.78, 3366017.73; 607322.20, 3366026.26; 607350.10, 3366033.05; 607378.38, 3366038.07; 607406.91, 3366041.31; 607435.59, 3366042.75.

(B) *Note:* Map depicting Unit RFS–6, Subunit B is provided at paragraph (6)(ix)(B) of this entry.

(viii) Unit RFS–7, Subunit A—Holmes County, Florida. From USGS 1:24,000 scale quadrangle map Bonifay, Florida.

(A) Land bounded by the following UTM Zone 16N, NAD83 coordinates (E, N): 630429.91, 3415116.39; 630422.24, 3415573.43; 630450.95, 3415573.01; 630479.58, 3415570.79; 630508.01, 3415566.77; 630536.14, 3415560.98; 630563.84, 3415553.43; 630591.02, 3415544.16; 630617.56, 3415533.20; 630643.36, 3415520.59; 630668.32, 3415506.39; 630692.34, 3415490.65; 630715.32, 3415473.44; 630737.18, 3415454.81; 630757.82, 3415434.85; 630777.17, 3415413.63;

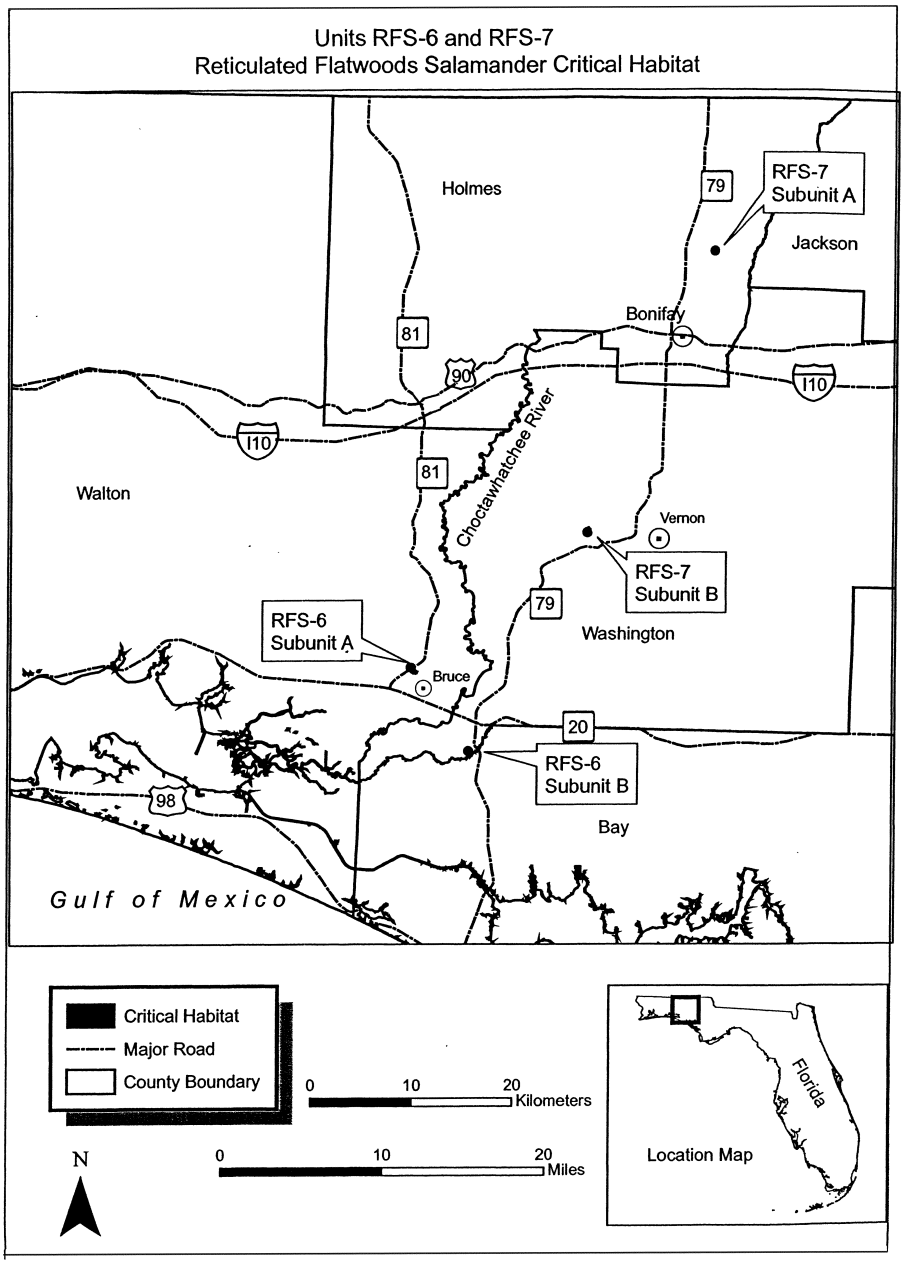
630795.15, 3415391.24; 630811.68, 3415367.76; 630826.71, 3415343.29; 630840.18, 3415317.93; 630852.02, 3415291.77; 630862.20, 3415264.92; 630870.67, 3415237.48; 630877.41, 3415209.57; 630882.38, 3415181.28; 630885.56, 3415152.74; 630886.94, 3415124.06; 630886.52, 3415095.35; 630884.30, 3415066.72; 630880.28, 3415038.28; 630874.49, 3415010.16; 630866.94, 3414982.45; 630857.67, 3414955.27; 630846.71, 3414928.73; 630834.11, 3414902.93; 630819.91, 3414877.97; 630804.17, 3414853.95; 630786.95, 3414830.97; 630768.32, 3414809.11; 630748.36, 3414788.47; 630727.15, 3414769.12; 630704.75, 3414751.14; 630681.28, 3414734.60; 630656.81, 3414719.57; 630631.45, 3414706.11; 630605.29, 3414694.26; 630578.44, 3414684.08; 630551.00, 3414675.61; 630523.09, 3414668.88; 630494.81, 3414663.91; 630466.27, 3414660.73; 630437.59, 3414659.34; 630408.87, 3414659.76; 630380.24, 3414661.99; 630351.81, 3414666.00; 630323.69, 3414671.79; 630295.98, 3414679.34; 630268.80, 3414688.61; 630242.26, 3414699.58; 630216.46, 3414712.18; 630191.50, 3414726.38; 630167.49, 3414742.12; 630144.51, 3414759.34; 630122.65, 3414777.97; 630102.01, 3414797.93; 630082.66, 3414819.15; 630064.68, 3414841.54; 630048.14, 3414865.01; 630033.11, 3414889.48; 630019.65, 3414914.85; 630007.80, 3414941.01; 629997.63, 3414967.86; 629989.15, 3414995.29; 629982.42, 3415023.21; 629977.45, 3415051.49; 629974.27, 3415080.03; 629972.89, 3415108.72; 629973.31, 3415137.43; 629975.53, 3415166.06; 629979.54, 3415194.49; 629985.34, 3415222.62; 629992.88, 3415250.32; 630002.16, 3415277.50; 630013.12, 3415304.04; 630025.72, 3415329.85; 630039.92, 3415354.81; 630055.66, 3415378.82; 630072.88, 3415401.81; 630091.50, 3415423.66; 630111.46, 3415444.31; 630132.68, 3415463.65; 630155.07, 3415481.63; 630178.55, 3415498.17; 630203.02, 3415513.20; 630228.38, 3415526.67; 630254.54, 3415538.51; 630281.39, 3415548.69; 630308.82, 3415557.16; 630336.74, 3415563.90; 630365.02, 3415568.87; 630393.56, 3415572.05; 630422.24, 3415573.43.

(B) *Note:* Map depicting Unit RFS–7, Subunit A is provided at paragraph (6)(ix)(B) of this entry.

(ix) Unit RFS–7, Subunit B—Washington County, Florida. From USGS 1:24,000 quadrangle map Millers Ferry, Florida.

(A) Land bounded by the following UTM Zone 16N, NAD83 coordinates (E, N): 618603.41, 3387429.45; 618699.68, 3387966.18; 618708.26, 3387969.49; 618723.71, 3387970.50; 618726.33, 3387965.00; 618725.78, 3387937.80; 618728.76, 3387918.09; 618732.40, 3387896.55; 618738.22, 3387886.81; 618755.97, 3387870.57; 618776.73, 3387857.50; 618803.06, 3387844.57; 618839.32, 3387830.66; 618872.53, 3387815.43; 618904.43, 3387802.63; 618918.85, 3387795.58; 618926.43, 3387789.59; 618930.96, 3387781.67; 618931.79, 3387748.94; 618930.13, 3387716.76; 618932.43, 3387674.79; 618932.53, 3387646.37; 618934.03, 3387611.79; 618948.87, 3387588.07; 618962.97, 3387569.26; 618980.28, 3387545.60; 618995.92, 3387515.09; 619007.01, 3387492.50; 619018.24, 3387464.98; 619025.65, 3387441.06; 619035.64, 3387413.50; 619042.95, 3387393.91; 619052.14, 3387373.13; 619059.11, 3387348.17; 619055.09, 3387319.74; 619049.30, 3387291.61; 619041.75, 3387263.91; 619032.48, 3387236.73; 619021.51, 3387210.19; 619008.91, 3387184.39; 618994.70, 3387159.43; 618978.96, 3387135.42; 618961.74, 3387112.44; 618943.12, 3387090.58; 618923.15, 3387069.94; 618901.93, 3387050.59; 618879.54, 3387032.62; 618856.06, 3387016.08; 618831.60, 3387001.05; 618806.23, 3386987.59; 618780.07, 3386975.75; 618753.22, 3386965.57; 618725.78, 3386957.10; 618697.87, 3386950.37; 618669.59, 3386945.41; 618641.05, 3386942.23; 618612.37, 3386940.85; 618583.65, 3386941.27; 618555.02, 3386943.49; 618526.59, 3386947.51; 618498.47, 3386953.31; 618470.76, 3386960.86; 618443.59, 3386970.13; 618417.05, 3386981.10; 618391.25, 3386993.70; 618366.29, 3387007.91; 618342.28, 3387023.65; 618319.30, 3387040.87; 618297.44, 3387059.49; 618276.80, 3387079.46; 618257.46, 3387100.68; 618239.48, 3387123.07; 618222.95, 3387146.55; 618207.92, 3387171.02; 618194.46, 3387196.38; 618182.61, 3387222.54; 618172.44, 3387249.39; 618163.97, 3387276.83; 618157.24, 3387304.75; 618152.27, 3387333.03; 618149.09, 3387361.57; 618147.71, 3387390.25; 618148.13, 3387418.97; 618150.36, 3387447.59; 618154.38, 3387476.03; 618160.17, 3387504.15; 618167.72, 3387531.86; 618177.00, 3387559.03; 618187.96, 3387585.58; 618200.57, 3387611.37; 618214.77, 3387636.33; 618230.51, 3387660.35; 618247.73, 3387683.33; 618266.36, 3387705.18; 618286.32, 3387725.82; 618307.54, 3387745.17; 618329.93, 3387763.15; 618353.41, 3387779.68; 618377.88, 3387794.71; 618403.24, 3387808.17; 618429.40, 3387820.02; 618456.25, 3387830.19; 618483.69, 3387838.66; 618511.60, 3387845.39; 618552.33, 3387867.90; 618598.24, 3387912.94; 618635.11, 3387948.48; 618647.90, 3387956.84; 618666.90, 3387964.74; 618689.14, 3387966.53; 618699.68, 3387966.18.

(B) *Note:* Map of Units RFS–6 and RFS–7 follows:



(x) Unit RFS–8, Subunit A—Jackson County, Florida. From USGS 1:24,000 quadrangle map Cottondale West, Florida.

(A) Land bounded by the following UTM Zone 16N, NAD83 coordinates (E, N): 652825.49, 3407068.83; 652825.48, 3407068.83; 653303.68, 3406605.29; 653038.02, 3406583.61;

653039.18, 3406691.92; 653028.57, 3406721.18; 652374.80, 3407395.52; 652472.45, 3407408.60; 653006.55, 3406734.40; 652986.39, 3406751.60; 652594.12, 3407426.43; 652663.66, 3407439.95; 652981.54, 3406786.91; 652980.43, 3406830.19; 652719.80, 3407445.35; 652756.73, 3407450.93; 652979.67, 3406859.70; 652965.63, 3406869.19; 652822.76, 3407457.91; 652861.06, 3407462.20; 652941.78, 3406876.45; 652916.11, 3406877.76; 652917.52, 3407467.64; 652905.20, 3407362.30; 652884.59, 3406876.95; 652859.18, 3406868.42; 652901.54, 3407298.74; 652968.31, 3407276.65; 652831.89, 3406855.91; 652800.52, 3406849.20; 653003.40, 3407251.11; 653001.57, 3407219.33; 652767.02, 3406848.34; 652747.17, 3406853.74; 652994.98, 3407166.27; 653006.18, 3407142.76; 652732.87, 3406873.06; 652724.33, 3406898.44; 653022.74, 3407116.74; 653023.96, 3407069.17; 652743.83, 3406906.81; 652763.39, 3406913.22; 653009.23, 3407023.84; 653002.04, 3406994.56; 652758.74, 3406940.66; 652753.99, 3406972.04; 653028.78, 3406984.67; 653046.56, 3407014.22; 652760.86, 3407011.59; 652764.09, 3407039.23; 653069.77, 3407038.61; 653101.19, 3407052.64; 652761.57, 3407060.82; 652749.49, 3407070.36; 653145.98, 3407061.72; 653188.39, 3407060.16; 652725.65, 3407077.62; 652709.68, 3407085.09; 653209.09, 3407079.20; 653227.21, 3407095.54; 652701.20, 3407108.49; 652698.57, 3407134.02; 653233.05, 3407074.53; 653231.22, 3407042.75; 652696.09, 3407153.64; 652674.12, 3407164.89; 653237.12, 3407019.10; 653258.77, 3407001.15; 652656.23, 3407170.34; 652642.04, 3407185.72; 653290.87, 3406988.75; 653294.33, 3406957.10; 652620.14, 3407175.05; 652594.55, 3407165.80; 653292.43, 3406927.97; 653290.39, 3406904.11; 652583.46, 3407159.57; 652578.33, 3407152.82; 653290.87, 3406885.61; 653306.88, 3406880.74; 652573.28, 3407143.44; 652569.58, 3407132.77; 653330.43, 3406891.92; 653353.91, 3406905.74; 652565.24, 3407121.42; 652555.67, 3407107.29; 653377.80, 3406903.71; 653389.13, 3406874.91; 652545.45, 3407092.48; 652535.85, 3407079.68; 653395.38, 3406838.05; 653396.39, 3406798.41; 652526.16, 3407070.17; 652517.58, 3407069.29; 653397.07, 3406771.98; 653400.40, 3406745.62; 652507.43, 3407077.62; 652495.88, 3407089.23; 653413.97, 3406732.75; 653440.50, 3406730.79; 652486.90, 3407103.54; 652483.22, 3407117.99; 653454.01, 3406720.56; 653454.42, 3406704.70; 652480.80, 3407135.12; 652478.24, 3407157.53; 653438.67, 3406699.01; 653411.87, 3406711.54; 652480.37, 3407177.42; 652480.51, 3407197.92; 653393.20, 3406716.35; 653374.68, 3406715.88; 652475.78, 3407201.76; 652465.72, 3407206.79; 653358.93, 3406710.18; 653341.08, 3406683.28; 652458.25, 3407213.87; 652449.33, 3407226.21; 653331.11, 3406659.23; 653321.06, 3406637.81; 652438.05, 3407227.24; 652428.85, 3407224.36; 653308.37, 3406616.33; 653303.68, 3406605.29.

652417.75, 3407218.12; 652411.37, 3407208.70; (B) *Note:* Map depicting Unit RFS–8, Subunit A is provided at paragraph (6)(xiv)(B) of this entry.

652407.64, 3407199.35; 652404.20, 3407178.77; 652402.01, 3407160.86; 652397.94, 3407138.94; 652395.00, 3407124.32; 652386.76, 3407110.23; (xi) Unit RFS–8, Subunit B—Jackson County, Florida. From USGS 1:24,000 scale quadrangle map Oakdale, Florida.

652373.71, 3407102.62; 652360.44, 3407103.60; 652343.53, 3407117.72; 652333.43, 3407124.07; 652322.15, 3407125.10; 652314.14, 3407127.54; 652305.95, 3407137.25; 652296.58, 3407140.97; 652287.20, 3407145.36; 652274.56, 3407147.68; 652268.06, 3407142.89; 652261.53, 3407139.41; 652255.03, 3407134.62; 652248.60, 3407127.18; 652243.50, 3407119.78; 652238.44, 3407110.39; 652237.44, 3407097.81; 652241.12, 3407083.36; 652242.82, 3407068.86; 652245.24, 3407051.73; 652244.24, 3407039.14; 652236.01, 3407024.39; 652221.05, 3407014.09; 652203.25, 3407010.99; 652190.56, 3407015.29; 652182.47, 3407021.03; 652175.50, 3407034.74; 652172.53, 3407047.22; 652173.53, 3407059.81; 652170.75, 3407065.03; 652164.64, 3407070.82; 652155.26, 3407075.21; 652145.32, 3407075.61; 652133.44, 3407073.99; 652119.02, 3407068.33; 652106.60, 3407062.06; 652100.97, 3407049.36; 652097.32, 3407036.70; 652077.38, 3407039.50; 652052.56, 3407052.08; 652042.52, 3407056.45; 652034.12, 3407074.09; 652048.98, 3407088.35; 652061.11, 3407105.85; 652085.32, 3407117.05; 652106.16, 3407130.80; 652105.19, 3407142.68; 652106.02, 3407161.87; 652112.91, 3407177.25; 652135.31, 3407181.79; 652182.83, 3407187.64; 652215.86, 3407190.47; 652257.41, 3407196.82; 652295.04, 3407201.09; 652314.35, 3407205.65; 652308.49, 3407218.63; 652292.89, 3407233.43; 652266.52, 3407254.57; 652238.70, 3407280.96; 652220.19, 3407305.61; 652212.44, 3407323.92; 652210.01, 3407341.05; 652209.77, 3407350.30; 652210.11, 3407362.87; 652213.26, 3407375.54; 652299.80, 3407383.66; 652790.87, 3406988.75; 652794.33, 3406957.10; 652760.14, 3406962.04; 652753.99, 3406972.04; 652760.86, 3407011.59; 652761.57, 3407060.82; 652725.65, 3407077.62; 652701.20, 3407108.49; 652696.09, 3407153.64; 652656.23, 3407170.34; 652620.14, 3407175.05; 652583.46, 3407159.57; 652573.28, 3407143.44; 652565.24, 3407121.42; 652545.45, 3407092.48; 652526.16, 3407070.17; 652507.43, 3407077.62; 652486.90, 3407103.54; 652480.80, 3407135.12; 652480.37, 3407177.42; 652475.78, 3407201.76; 652458.25, 3407213.87; 652438.05, 3407227.24; 652417.75, 3407218.12; 652407.64, 3407199.35; 652402.01, 3407160.86; 652395.00, 3407124.32; 652373.71, 3407102.62; 652343.53, 3407117.72; 652322.15, 3407125.10; 652305.95, 3407137.25; 652287.20, 3407145.36; 652268.06, 3407142.89; 652255.03, 3407134.62; 652243.50, 3407119.78; 652237.44, 3407097.81; 652242.82, 3407068.86; 652244.24, 3407039.14; 652221.05, 3407014.09; 652190.56, 3407015.29; 652175.50, 3407034.74; 652173.53, 3407059.81; 652164.64, 3407070.82; 652145.32, 3407075.61; 652119.02, 3407068.33; 652100.97, 3407049.36; 652077.38, 3407039.50; 652042.52, 3407056.45; 652048.98, 3407088.35; 652085.32, 3407117.05; 652105.19, 3407142.68; 652112.91, 3407177.25; 652182.83, 3407187.64; 652257.41, 3407196.82; 652314.35, 3407205.65; 652292.89, 3407233.43; 652238.70, 3407280.96; 652212.44, 3407323.92; 652209.77, 3407350.30; 652213.26, 3407375.54.

(A) Land bounded by the following UTM Zone 16N, NAD83 coordinates (E, N): 674995.60, 3401690.28; 673875.85, 3402158.93; 674341.17, 3402164.28; 674675.84, 3402154.41; 674910.48, 3402162.13; 675034.90, 3402087.99; 675083.93, 3402061.49; 675233.86, 3401974.12; 675401.89, 3401877.97; 675485.18, 3401832.51; 675531.62, 3401803.30; 675583.62, 3401764.31; 675781.28, 3401546.61; 675851.43, 3401471.73; 675878.14, 3401437.38; 675932.68, 3401376.64; 675959.66, 3401349.36; 675970.87, 3401333.99; 675981.97, 3401314.44; 676115.36, 3401200.87; 676086.59, 3401161.12; 676052.69, 3401114.62; 676041.90, 3401096.49; 676016.12, 3401069.38; 675998.03, 3401051.73; 675964.86, 3401028.39; 675934.93, 3401007.79; 675918.10, 3400992.81; 675908.38, 3400984.62; 675897.49, 3400970.46; 675889.97, 3400953.73; 675879.31, 3400879.41; 675844.53, 3400893.06; 675327.40, 3401121.69; 674861.39, 3401328.81; 674684.03, 3401401.59; 674391.31, 3401530.89; 673876.29, 3401753.54; 673877.85, 3402081.41; 673875.85, 3402158.93.

(B) *Note:* Map depicting Unit RFS–8, Subunit B is provided at paragraph (6)(xiv)(B) of this entry.

(xii) Unit RFS–8, Subunit C—Jackson County, Florida. From USGS 1:24,000 scale quadrangle map Cypress, Florida.

(A) Land bounded by the following UTM Zone 16N, NAD83 coordinates (E, N): 683829.73, 3393074.70; 684023.32, 3393574.80;

684052.04, 3393574.38; 684080.68, 3393572.16; 683966.09, 3393570.24; 683994.63, 3393573.42; 684109.12, 3393568.14; 684137.25, 3393562.34; 684023.32, 3393574.80.

684164.96, 3393554.79; 684192.15, 3393545.52; (B) *Note:* Map depicting Unit RFS–8, Subunit C is provided at paragraph (6)(xiv)(B) of this entry.

684218.69, 3393534.55; 684244.50, 3393521.94; 684269.46, 3393507.74; 684293.49, 3393491.99; 684316.47, 3393474.77; 684338.33, 3393456.14; 684358.98, 3393436.17; 684378.33, 3393414.95; 684396.32, 3393392.55; 684412.86, 3393369.07; 684427.89, 3393344.60; 684441.36, 3393319.23; 684453.20, 3393293.06; 684463.38, 3393266.20; 684471.86, 3393238.76; 684478.59, 3393210.84; 684483.56, 3393182.55; 684486.74, 3393154.00; 684488.12, 3393125.31; 684487.70, 3393096.59; 684485.48, 3393067.96; 684481.46, 3393039.52; 684475.66, 3393011.38; 684468.11, 3392983.67; 684458.84, 3392956.49; 684447.87, 3392929.94; 684435.27, 3392904.13; 684421.06, 3392879.17; 684405.32, 3392855.15; 684388.09, 3392832.16; 684369.46, 3392810.30; 684349.50, 3392789.65; 684328.27, 3392770.30; 684305.87, 3392752.32; 684282.39, 3392735.78; 684257.92, 3392720.75; 684232.55, 3392707.28; 684206.38, 3392695.43; 684179.52, 3392685.25; 684152.08, 3392676.78; 684124.16, 3392670.04; 684095.87, 3392665.08; 684067.32, 3392661.89; 684038.63, 3392660.51; 684009.91, 3392660.93; 683981.28, 3392663.16; 683966.02, 3392656.75; 683947.05, 3392647.66; 683923.43, 3392639.12; 683903.85, 3392628.04; 683886.86, 3392619.00; 683867.12, 3392613.87; 683843.82, 3392618.55; 683819.20, 3392623.21; 683789.11, 3392634.33; 683770.46, 3392638.47; 683744.30, 3392651.02; 683720.12, 3392664.28; 683706.10, 3392668.55; 683685.47, 3392672.64; 683658.43, 3392667.97; 683632.03, 3392664.65; 683606.95, 3392661.36; 683585.89, 3392656.18; 683542.11, 3392633.24; 683512.11, 3392615.27; 683479.46, 3392597.24; 683450.00, 3392583.92; 683423.91, 3392568.70; 683385.42, 3392545.89; 683371.14, 3392534.94; 683348.35, 3392519.81; 683332.69, 3392510.81; 683315.62, 3392505.08; 683294.59, 3392498.59; 683272.28, 3392490.74; 683253.15, 3392487.60; 683203.24, 3392496.89; 683207.64, 3392582.95; 683209.99, 3392696.72; 683212.45, 3392729.84; 683218.34, 3392783.54; 683218.66, 3392796.77; 683214.15, 3392817.81; 683194.50, 3392886.06; 683182.83, 3392927.40; 683174.68, 3392960.91; 683171.34, 3392987.93; 683171.38, 3393011.73; 683174.93, 3393028.35; 683181.19, 3393042.39; 683179.64, 3393050.95; 683179.13, 3393070.77; 683177.70, 3393100.48; 683176.50, 3393146.73; 683179.16, 3393171.92; 683183.14, 3393197.15; 683188.54, 3393219.10; 683190.03, 3393238.31; 683189.67, 3393252.19; 683214.05, 3393256.78; 683227.92, 3393258.46; 683266.03, 3393270.03; 683309.50, 3393279.08; 683347.79, 3393284.04; 683367.66, 3393283.89; 683389.34, 3393286.52; 683469.22, 3393300.40; 683524.08, 3393304.46; 683580.93, 3393308.57; 683593.71, 3393300.97; 683608.59, 3393292.07; 683614.08, 3393305.37; 683626.69, 3393331.18; 683640.90, 3393356.14; 683656.64, 3393380.17; 683673.86, 3393403.15; 683692.49, 3393425.01; 683712.46, 3393445.66; 683733.68, 3393465.01; 683756.08, 3393482.99; 683779.56, 3393499.53; 683804.04, 3393514.57; 683829.41, 3393528.03; 683855.57, 3393539.88; 683882.43, 3393550.06; 683909.88, 3393558.54; 683937.80, 3393565.27; 683966.09, 3393570.24; 683994.63, 3393573.42; 684023.32, 3393574.80.

(B) *Note:* Map depicting Unit RFS–8, Subunit C is provided at paragraph (6)(xiv)(B) of this entry.

(xiii) Unit RFS–9, Subunit A—Calhoun County, Florida. From USGS 1:24,000 scale quadrangle map Broad Branch, Florida.

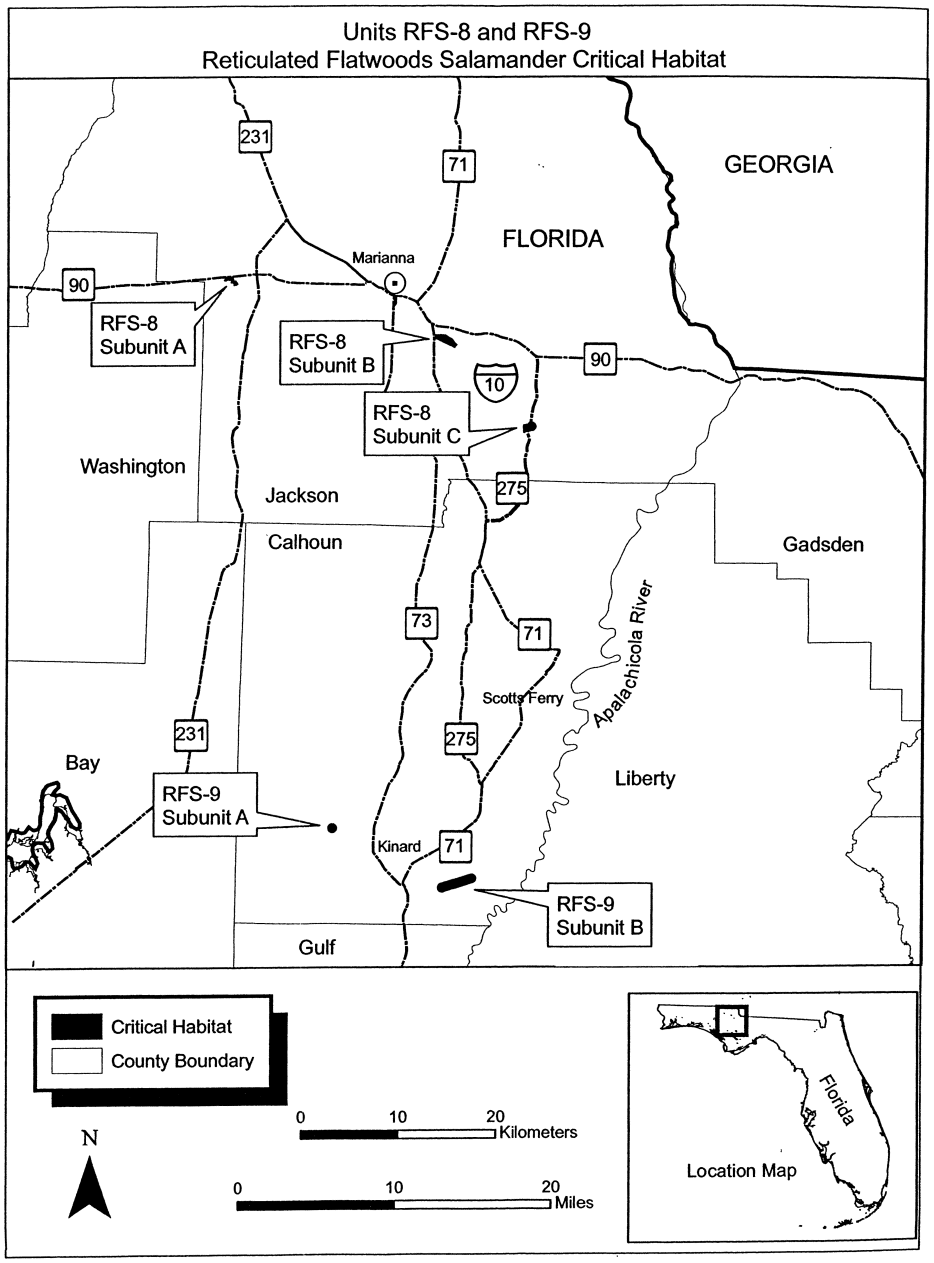
(A) Land bounded by the following UTM Zone 16N, NAD83 coordinates (E, N): 664818.75, 3351879.40; 664810.75, 3352336.50; 664839.47, 3352336.10; 664868.11, 3352333.90; 664896.55, 3352329.90; 664924.68, 3352324.13; 664952.40, 3352316.60; 664979.59, 3352307.34; 665006.14, 3352296.40; 665031.95, 3352283.81; 665056.93, 3352269.63; 665080.96, 3352253.90; 665103.96, 3352236.70; 665125.83, 3352218.08; 665146.49, 3352198.13; 665165.86, 3352176.93; 665183.85, 3352154.54; 665200.41, 3352131.08; 665215.46, 3352106.61; 665228.94, 3352081.26; 665240.81, 3352055.10; 665251.01, 3352028.25; 665259.50, 3352000.82; 665266.26, 3351972.90; 665271.25, 3351944.62; 665274.45, 3351916.08; 665275.85, 3351887.39; 665275.45, 3351858.67; 665273.25, 3351830.04; 665269.26, 3351801.60; 665263.48, 3351773.46; 665255.95, 3351745.75; 665246.70, 3351718.56; 665235.75, 3351692.00; 665223.16, 3351666.19; 665208.98, 3351641.22; 665193.25, 3351617.18; 665176.05, 3351594.19; 665157.44, 3351572.31; 665137.49, 3351551.65; 665116.28, 3351532.29; 665093.90, 3351514.29; 665070.43, 3351497.73; 665045.97, 3351482.68; 665020.61, 3351469.20; 664994.45, 3351457.33; 664967.61, 3351447.13; 664940.17, 3351438.64; 664912.26, 3351431.89; 664883.97, 3351426.90; 664855.43, 3351423.70; 664826.74, 3351422.29; 664798.03, 3351422.69; 664769.39, 3351424.89; 664740.95, 3351428.89; 664712.82, 3351434.66; 664685.10, 3351442.19; 664657.91, 3351451.45; 664631.36, 3351462.39; 664605.54, 3351474.98; 664580.57, 3351489.17; 664556.54, 3351504.89; 664533.54, 3351522.09; 664511.67, 3351540.71; 664491.01, 3351560.66; 664471.64, 3351581.87; 664453.64, 3351604.25; 664437.09, 3351627.72; 664422.04, 3351652.18; 664408.55, 3351677.53; 664396.69, 3351703.69; 664386.49, 3351730.54; 664377.99, 3351757.97; 664371.24, 3351785.89; 664366.25, 3351814.17; 664363.05, 3351842.71; 664361.65, 3351871.40; 664362.05, 3351900.12; 664364.25, 3351928.75; 664368.24, 3351957.19; 664374.02, 3351985.33; 664381.55, 3352013.04; 664390.80, 3352040.23; 664401.74, 3352066.79; 664414.33, 3352092.60; 664428.52, 3352117.57; 664444.24, 3352141.60; 664461.45, 3352164.60; 664480.06, 3352186.47; 664500.01, 3352207.14; 664521.22, 3352226.50; 664543.60, 3352244.50; 664567.07, 3352261.06; 664591.53, 3352276.11; 664616.89, 3352289.59; 664643.04, 3352301.46; 664669.89, 3352311.66; 664697.33, 3352320.15; 664725.24, 3352326.90; 664753.53, 3352331.89; 664782.07, 3352335.09; 664810.75, 3352336.50.

(B) *Note:* Map depicting Unit RFS–9, Subunit A is provided at paragraph (6)(xiv)(B) of this entry.

(xiv) Unit RFS–9, Subunit B—Calhoun County, Florida. From USGS 1:24,000 scale quadrangle map Dead Lake, Florida.

(A) Land bounded by the following UTM Zone 16N, NAD83 coordinates (E, N): 677786.48, 3346665.69; 676322.21, 3345710.86; 676293.52, 3345709.49; 676264.80, 3345709.91; 676236.17, 3345712.14; 676207.73, 3345716.17; 676179.60, 3345721.97; 676151.89, 3345729.52; 676124.71, 3345738.80; 676098.16, 3345749.77; 676072.36, 3345762.39; 676047.40, 3345776.60; 676023.38, 3345792.34; 676000.40, 3345809.57; 675978.54, 3345828.20; 675957.90, 3345848.17; 675938.55, 3345869.40; 675920.57, 3345891.80; 675904.04, 3345915.28; 675889.01, 3345939.76; 675875.55, 3345965.13; 675863.71, 3345991.30; 675853.53, 3346018.16; 675845.07, 3346045.60; 675838.34, 3346073.52; 675833.38, 3346101.81; 675830.20, 3346130.36; 675828.82, 3346159.05; 675829.25, 3346187.76; 675831.48, 3346216.40; 675835.50, 3346244.84; 675841.31, 3346272.97; 675848.86, 3346300.67; 675858.14, 3346327.85; 675869.11, 3346354.40; 675881.73, 3346380.20; 675895.94, 3346405.16; 675911.69, 3346429.18; 675928.91, 3346452.16; 675947.55, 3346474.02; 675967.52, 3346494.66; 675988.75, 3346514.01; 676011.15, 3346531.98; 676034.63, 3346548.52; 676059.11, 3346563.55; 676084.48, 3346577.01; 676110.65, 3346588.85; 676137.51, 3346599.02; 679138.53, 3347597.18; 679165.98, 3347605.65; 679193.90, 3347612.37; 679222.19, 3347617.34; 679250.74, 3347620.51; 679279.43, 3347621.89; 679308.15, 3347621.46; 679336.78, 3347619.23; 679365.22, 3347615.21; 679393.35, 3347609.41; 679421.06, 3347601.85; 679448.25, 3347592.57; 679474.79, 3347581.60; 679500.60, 3347568.99; 679525.56, 3347554.78; 679549.58, 3347539.03; 679572.56, 3347521.81; 679594.42, 3347503.17; 679615.06, 3347483.20; 679634.41, 3347461.97; 679652.39, 3347439.57; 679668.92, 3347416.09; 679683.95, 3347391.61; 679697.41, 3347366.24; 679709.25, 3347340.07; 679719.43, 3347313.22; 679727.89, 3347285.77; 679734.62, 3347257.85; 679739.58, 3347229.56; 679742.76, 3347201.01; 679744.14, 3347172.32; 679743.71, 3347143.61; 679741.48, 3347114.97; 679737.46, 3347086.53; 679731.66, 3347058.40; 679724.10, 3347030.69; 679714.82, 3347003.51; 679703.85, 3346976.97; 679691.23, 3346951.16; 679677.02, 3346926.20; 679661.27, 3346902.19; 679644.05, 3346879.20; 679625.41, 3346857.35; 679605.44, 3346836.70; 679584.21, 3346817.36; 679561.81, 3346799.38; 679538.33, 3346782.84; 679513.85, 3346767.82; 679488.47, 3346754.36; 679462.31, 3346742.52; 679435.45, 3346732.34; 676434.42, 3345734.20; 676406.97, 3345725.73; 676379.05, 3345719.00; 676350.76, 3345714.04; 676322.21, 3345710.86.

(B) *Note:* Map of Units RFS–8 and RFS–9 follows:



(7) Reticulated flatwood salamander—Baker and Miller Counties, Georgia.

(i) Unit RFS–10, Subunit A—Miller County, Georgia. From USGS 1:24,000 scale quadrangle map Donalsonville NE, Georgia.

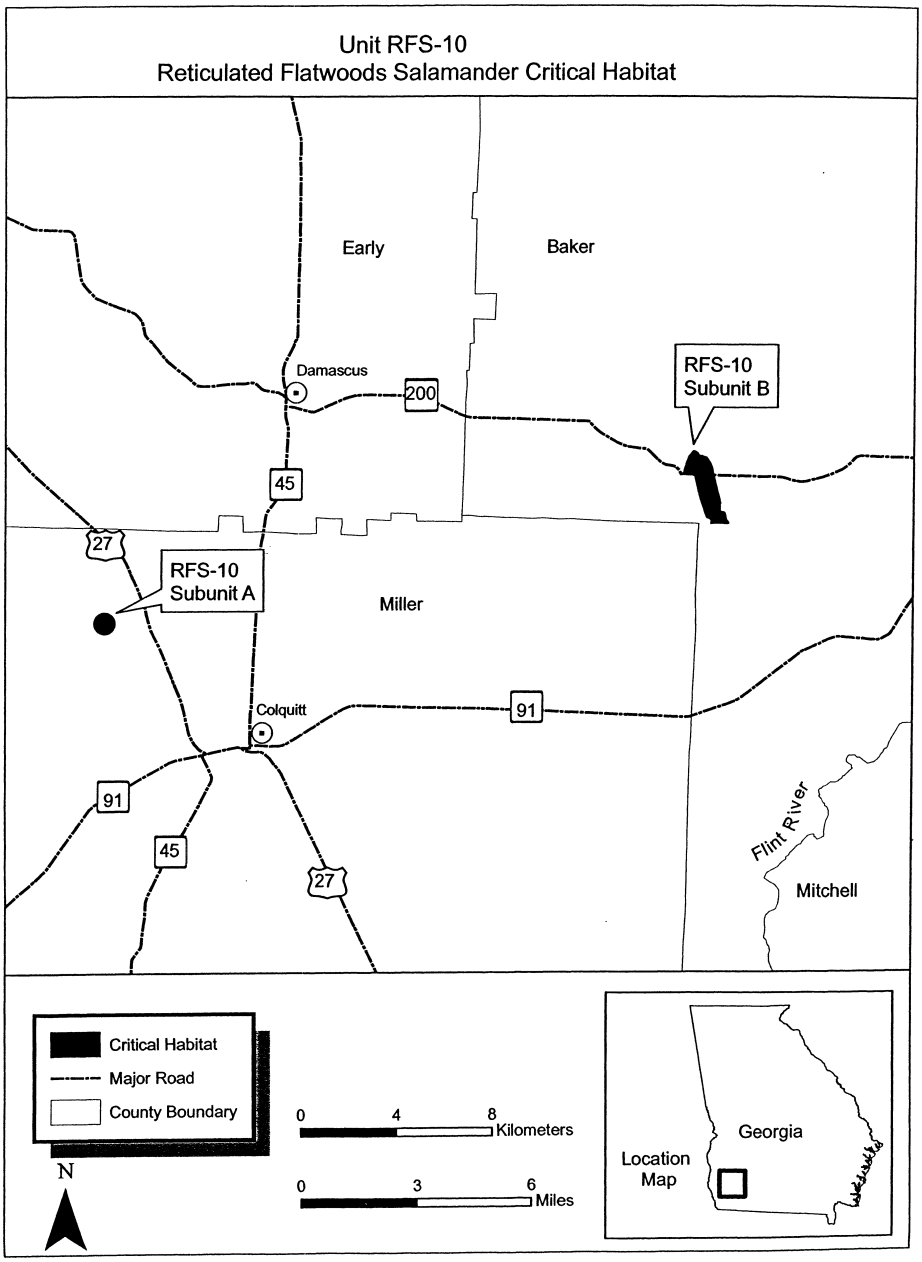
(A) Land bounded by the following UTM Zone 16N, NAD83 coordinates (E, N): 709773.06, 3456290.97; 709801.78, 3456290.64; 709830.43, 3456288.51; 709858.89, 3456284.58; 709887.04, 3456278.87; 709914.78, 3456271.41; 709942.00, 3456262.22; 709968.58, 3456251.34; 709994.43, 3456238.81; 710019.45, 3456224.68; 710043.52, 3456209.01; 710066.57, 3456191.86; 710088.49, 3456173.30; 710109.20, 3456153.39; 710128.62, 3456132.23; 710146.68, 3456109.89; 710163.30, 3456086.45; 710178.41, 3456062.02; 710191.96, 3456036.69; 710203.89, 3456010.56; 710214.16, 3455983.73; 710222.72, 3455956.31; 710229.54, 3455928.41; 710234.60, 3455900.13; 710237.88, 3455871.59; 710239.35, 3455842.91; 710239.02, 3455814.18; 710236.89, 3455785.53; 710232.96, 3455757.08; 710227.25, 3455728.92; 710219.79, 3455701.18; 710210.60, 3455673.97; 710199.72, 3455647.38; 710187.19, 3455621.53; 710173.06, 3455596.52; 710157.39, 3455572.44; 710140.24, 3455549.40; 710121.68, 3455527.48; 710101.77, 3455506.76; 710080.61, 3455487.34; 710058.27, 3455469.29; 710034.83, 3455452.67; 710010.40, 3455437.56; 709985.07, 3455424.01; 709958.94, 3455412.08; 709932.11, 3455401.81; 709904.69, 3455393.25; 709876.79, 3455386.42; 709848.51, 3455381.36; 709819.97, 3455378.09; 709791.29, 3455376.62; 709762.56, 3455376.95; 709733.91, 3455379.08; 709705.46, 3455383.01; 709677.30, 3455388.71; 709649.56, 3455396.18; 709622.35, 3455405.37; 709595.76, 3455416.25; 709569.91, 3455428.78; 709544.90, 3455442.90; 709520.82, 3455458.57; 709497.78, 3455475.73; 709475.86, 3455494.29; 709455.15, 3455514.19; 709435.72, 3455535.36; 709417.67, 3455557.70; 709401.05, 3455581.13; 709385.94, 3455605.56; 709372.39, 3455630.89; 709360.46, 3455657.02; 709350.19, 3455683.85; 709341.63, 3455711.27; 709334.80, 3455739.18; 709329.75, 3455767.45; 709326.47, 3455795.99; 709325.00, 3455824.68; 709325.33, 3455853.40; 709327.46, 3455882.05; 709331.39, 3455910.51; 709337.10, 3455938.66; 709344.56, 3455966.40; 709353.75, 3455993.62; 709364.63, 3456020.20; 709377.16, 3456046.05; 709391.29, 3456071.07; 709406.96, 3456095.14; 709424.11, 3456118.19; 709442.67, 3456140.11; 709462.57, 3456160.82; 709483.74, 3456180.24; 709506.08, 3456198.30; 709529.51, 3456214.92; 709553.94, 3456230.03; 709579.27, 3456243.58; 709605.40, 3456255.51; 709632.23, 3456265.78; 709659.65, 3456274.34; 709687.56, 3456281.16; 709715.83, 3456286.22; 709744.37, 3456289.49; 709773.06, 3456290.97.

(B) *Note:* Map depicting Unit RFS–10, Subunit A is provided at paragraph (7)(ii)(B) of this entry.

(ii) Unit RFS–10, Subunit B—Baker County, Georgia. From USGS 1:24,000 scale quadrangle map Bethany, Georgia.

(A) Land bounded by the following UTM Zone 16N, NAD83 coordinates (E, N): 734799.11, 3462120.86; 735025.60, 3462958.51; 735075.16, 3462764.67; 735444.38, 3461469.20; 735412.19, 3461400.33; 735420.28, 3461310.28; 735420.28, 3461223.05; 735430.58, 3461136.30; 735479.60, 3461141.39; 735578.13, 3461132.68; 735613.43, 3461091.58; 735650.82, 3461010.58; 735669.51, 3460923.35; 735703.92, 3460811.06; 735756.74, 3460736.42; 735800.35, 3460649.19; 735744.28, 3460624.27; 735432.74, 3460624.27; 735021.51, 3460618.04; 735040.20, 3460767.58; 734952.97, 3460823.66; 734840.82, 3460861.04; 734812.02, 3460938.41; 734541.74, 3461658.58; 734504.36, 3461783.19; 734301.81, 3462565.34; 734165.92, 3462612.37; 734048.55, 3462652.99; 733925.73, 3462646.35; 733818.44, 3462640.54; 733818.98, 3462680.42; 733831.44, 3462724.03; 733831.91, 3462789.15; 733887.18, 3462970.92; 733929.82, 3463111.13; 733981.10, 3463244.98; 734029.39, 3463371.05; 734111.12, 3463466.09; 734161.67, 3463534.03; 734214.05, 3463602.19; 734302.98, 3463595.69; 734405.69, 3463535.78; 734460.75, 3463434.34; 734585.36, 3463428.11; 734697.51, 3463384.49; 734766.02, 3463372.96; 734844.43, 3463268.82; 734936.26, 3463146.86; 735025.60, 3462958.51.

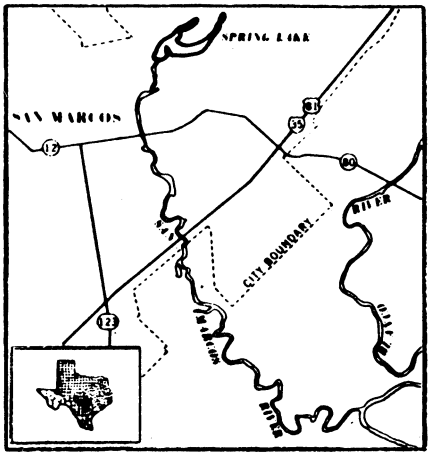
(B) *Note:* Map of Unit RFS–10 follows:



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: The map provided is for informational purposes only. Map follows:



ARROYO TOAD (*Anaxyrus californicus*).

(1) Critical habitat units are depicted for Los Angeles, Orange, Riverside, San Bernardino, San Diego, Santa Barbara, and Ventura Counties, California, on the maps below. The maps provided are for informational purposes only.

(2) Within these areas, the primary constituent elements for the arroyo toad consist of four components:

(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. Breeding pools must persist a minimum of 2 months for the completion of larval development. However, due to the dynamic nature of southern California riparian systems and flood regimes, the location of suitable breeding pools may vary from year to year. Specifically, the conditions necessary to allow for successful reproduction of arroyo toads are:

(A) Breeding pools that are less than 6 inches (15 centimeters) deep;

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

(C) Surface water that lasts for a minimum of 2 months during the breeding season (a sufficient wet period in the spring months to allow arroyo toad larvae to hatch, mature, and metamorphose).

(ii) Riparian and adjacent upland habitats, particularly low-gradient (typically less than 6 percent) stream segments and alluvial streamside terraces 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; and adjacent valley bottomlands that include areas of loose soil where toads can burrow underground, to provide foraging and living areas for juvenile and adult arroyo toads.

(iii) A natural flooding regime, or one sufficiently corresponding to natural, that:

(A) Is characterized by intermittent or near-perennial flow that contributes to the persistence of shallow pools into at least mid-summer;

(B) Maintains areas of open, sparsely vegetated, sandy stream channels and terraces by periodically scouring riparian vegetation; and

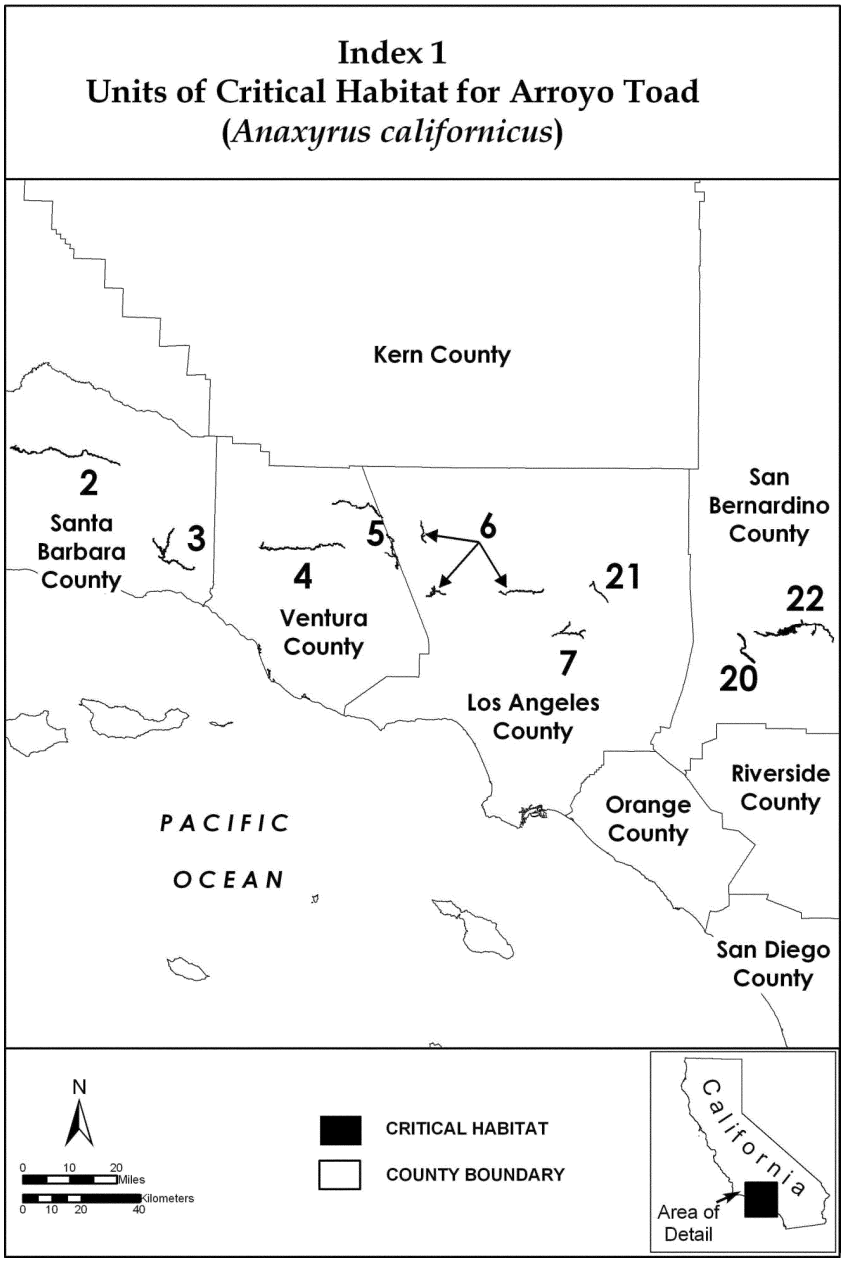
(C) Also modifies stream channels and terraces and redistributes sand and sediment, such that breeding pools and terrace habitats with scattered vegetation are maintained.

(iv) Stream channels and adjacent upland habitats that allow for movement to breeding pools, foraging areas, overwintering sites, upstream and downstream dispersal, and connectivity to areas that contain suitable habitat.

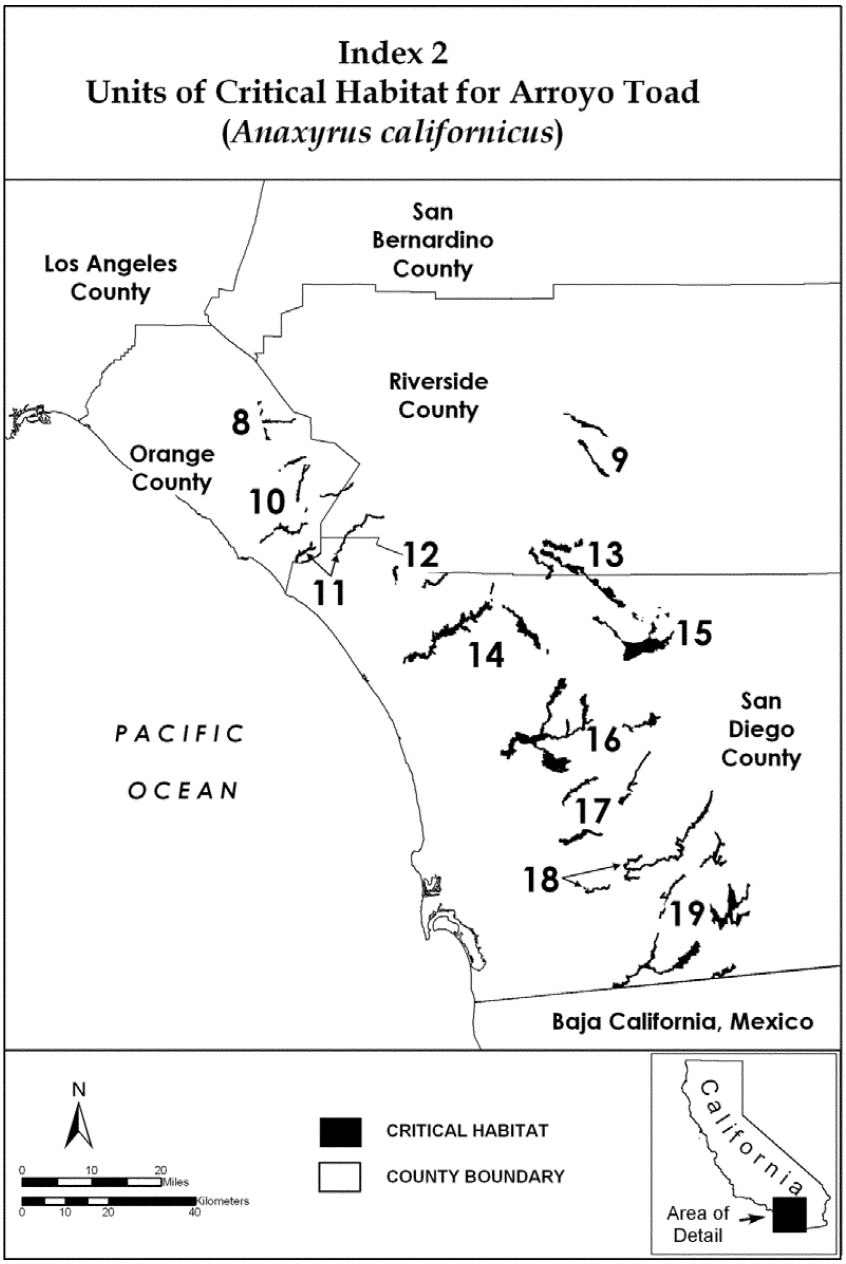
(3) Critical habitat does not include manmade structures (such as buildings, aqueducts, airports, roads, and other paved areas) and the land on which they are located existing within the legal boundaries on the effective date of this rule.

(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 2009. Except where otherwise noted, critical habitat units were mapped using Universal Transverse Mercator (UTM) zone 11, North American Datum of 1983 (NAD83) coordinates.

(5) *Note:* Index map 1 of Units of Critical Habitat for Arroyo Toad (*Anaxyrus californicus*) follows:



(6) *Note:* Index map 2 of Units of Critical Habitat for Arroyo Toad (*Anaxyrus californicus*) follows:



(7) Unit 2: Sisquoc River, Santa Barbara County, California.

(i) From USGS 1:24,000 quadrangle maps Foxen Canyon, Zaca Lake, Bald Mtn., and Hurricane Deck. Beginning at 120 degrees West Longitude at UTM zone 10, NAD83 y coordinate 3858106, land bounded by the following UTM zone 10, NAD83 coordinates (E,

N): 774369, 3858136; 774379, 3857806; 774379, 3857806; 774151, 3857792; 774149, 3857822; 773999, 3857813; 773997, 3857843; 773937, 3857839; 773936, 3857869; 773876, 3857866; 773874, 3857896; 773844, 3857894; 773842, 3857924; 773812, 3857922; 773810, 3857952; 773780, 3857950; 773779, 3857980; 773749, 3857978; 773740, 3858128; 773710, 3858126; 773708, 3858156; 773678, 3858154; 773676, 3858184; 773646, 3858183; 773644, 3858213; 773615, 3858211; 773613, 3858241; 773583, 3858239; 773581, 3858269; 773521, 3858265; 773519, 3858295; 773459, 3858292; 773458, 3858322; 773248, 3858309; 773246, 3858339; 773156, 3858334; 773155, 3858364; 773095, 3858360; 773093, 3858390; 773033, 3858386; 773031, 3858416; 772941, 3858411; 772940, 3858441; 772850, 3858435; 772852, 3858405; 772792, 3858402; 772784, 3858522; 772755, 3858520; 772753, 3858550; 772723, 3858548; 772719, 3858608; 772659, 3858604; 772658, 3858634; 772628, 3858632; 772626, 3858662; 772566, 3858659; 772564, 3858689; 772444, 3858682; 772443, 3858712; 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(ii) *Note:* Map of Unit 2 is provided at paragraph (8)(ii) of this entry.

(8) Unit 3: Upper Santa Ynez River Basin, Santa Barbara County, California.

(i) From USGS 1:24,000 quadrangle maps Little Pine Mtn., Hildreth Peak, and Carpinteria, land bounded by the following UTM coordinates (E, N): 262233, 3833176; 262233, 3833146; 262263, 3833146; 262263, 3833116; 262293, 3833116; 262293, 3833086; 262323, 3833086; 262323, 3833026; 262203, 3833026; 262203, 3832996; 262113, 3832996; 262113, 3832966; 262083, 3832966; 262083, 3832936; 261963, 3832936; 261963, 3832876; 261993, 3832876; 261993, 3832846; 261963, 3832846; 261963, 3832786; 261993, 3832786; 261993, 3832666; 261933, 3832666; 261933, 3832636; 261843, 3832636; 261843, 3832666; 261753, 3832666; 261753, 3832636; 261723, 3832636; 261723, 3832576; 261753, 3832576; 261753, 3832486; 261723, 3832486; 261723, 3832456; 261693, 3832456; 261693, 3832426; 261663, 3832426; 261663, 3832396; 261693, 3832396; 261693, 3832336; 261753, 3832336; 261753, 3832306; 261723, 3832306; 261723, 3832276; 261663, 3832276; 261663, 3832246; 261633, 3832246; 261633, 3832216; 261663, 3832216; 261663, 3832186; 261693, 3832186; 261693, 3832066; 261663, 3832066; 261663, 3832006; 261633, 3832006; 261633, 3831976; 261603, 3831976; 261603, 3831916; 261543, 3831916; 261543, 3831886; 261513, 3831886; 261513, 3831916; 261393, 3831916; 261393, 3831946; 261363, 3831946; 261363, 3831976; 261333, 3831976; 261333, 3831856; 261363, 3831856; 261363, 3831706; 261333, 3831706; 261333, 3831676; 261303, 3831676; 261303, 3831616; 261333, 3831616; 261333, 3831556; 261213, 3831556; 261213, 3831496; 261183, 3831496; 261183, 3831466; 261153, 3831466; 261153, 3831436; 261123, 3831436; 261123, 3831376; 261063, 3831376; 261063, 3831346; 260973, 3831346; 260973, 3831316; 260823, 3831316; 260823, 3831256; 260793, 3831256; 260793, 3831226; 260823, 3831226; 260823, 3831196; 260853, 3831196; 260853, 3831166; 260733, 3831166; 260733, 3831106; 260703, 3831106; 260703, 3831046; 260583, 3831046; 260583, 3831016; 260523, 3831016; 260523, 3830926; 260553, 3830926; 260553, 3830896; 260613, 3830896; 260613, 3830866; 260643, 3830866; 260643, 3830806; 260673, 3830806; 260673, 3830746; 260703, 3830746; 260703, 3830656; 260673, 3830656; 260673, 3830596; 260643, 3830596; 260643, 3830536; 260613, 3830536; 260613, 3830506; 260583, 3830506; 260583, 3830476; 260523, 3830476; 260523, 3830416; 260493, 3830416; 260493, 3830356; 260523, 3830356; 260523, 3830296; 260553, 3830296; 260553, 3830236; 260583, 3830236; 260583, 3830206; 260553, 3830206; 260553, 3830176; 260583, 3830176; 260583, 3830146; 260613, 3830146; 260613, 3830116; 260643, 3830116; 260643, 3830086; 260673, 3830086; 260673, 3829996; 260553, 3829996; 260553, 3829966; 260523, 3829966; 260523, 3829936; 260493, 3829936; 260493, 3829876; 260523, 3829876; 260523, 3829786; 260493, 3829786; 260493, 3829606; 260463, 3829606; 260463, 3829546; 260433, 3829546; 260433, 3829516; 260403, 3829516; 260403, 3829486; 260373, 3829486; 260373, 3829456; 260343, 3829456; 260343, 3829426; 260313, 3829426; 260313, 3829246; 260343, 3829246; 260343, 3829216; 260373, 3829216; 260373, 3829186; 260343, 3829186; 260343, 3829096; 260313, 3829096; 260313, 3829066; 260283, 3829066; 260283, 3829036; 260253, 3829036; 260253, 3829006; 260223, 3829006; 260223, 3828976; 260193, 3828976; 260193, 3828946; 260163, 3828946; 260163, 3828796; 260193, 3828796; 260193, 3828766; 260223, 3828766; 260223, 3828736; 260313, 3828736; 260313, 3828676; 260343, 3828676; 260343, 3828616; 260373, 3828616; 260373, 3828556; 260403, 3828556; 260403, 3828526; 260433, 3828526; 260433, 3828496; 260523, 3828496; 260523, 3828466; 260643, 3828466; 260643, 3828436; 260613, 3828436; 260613, 3828406; 260583, 3828406; 260583, 3828376; 260403, 3828376; 260403, 3828346; 260253, 3828346; 260253, 3828316; 260223, 3828316; 260223, 3828286; 260193, 3828286; 260193, 3828256; 260163, 3828256; 260163, 3828196; 260193, 3828196; 260193, 3828166; 260223, 3828166; 260223, 3828136; 260253, 3828136; 260253, 3828046; 260283, 3828046; 260283, 3827986; 260253, 3827986; 260253, 3827926; 260223, 3827926; 260223, 3827866; 260193, 3827866; 260193, 3827806; 260253, 3827806; 260253, 3827776; 260343, 3827776; 260343, 3827746;

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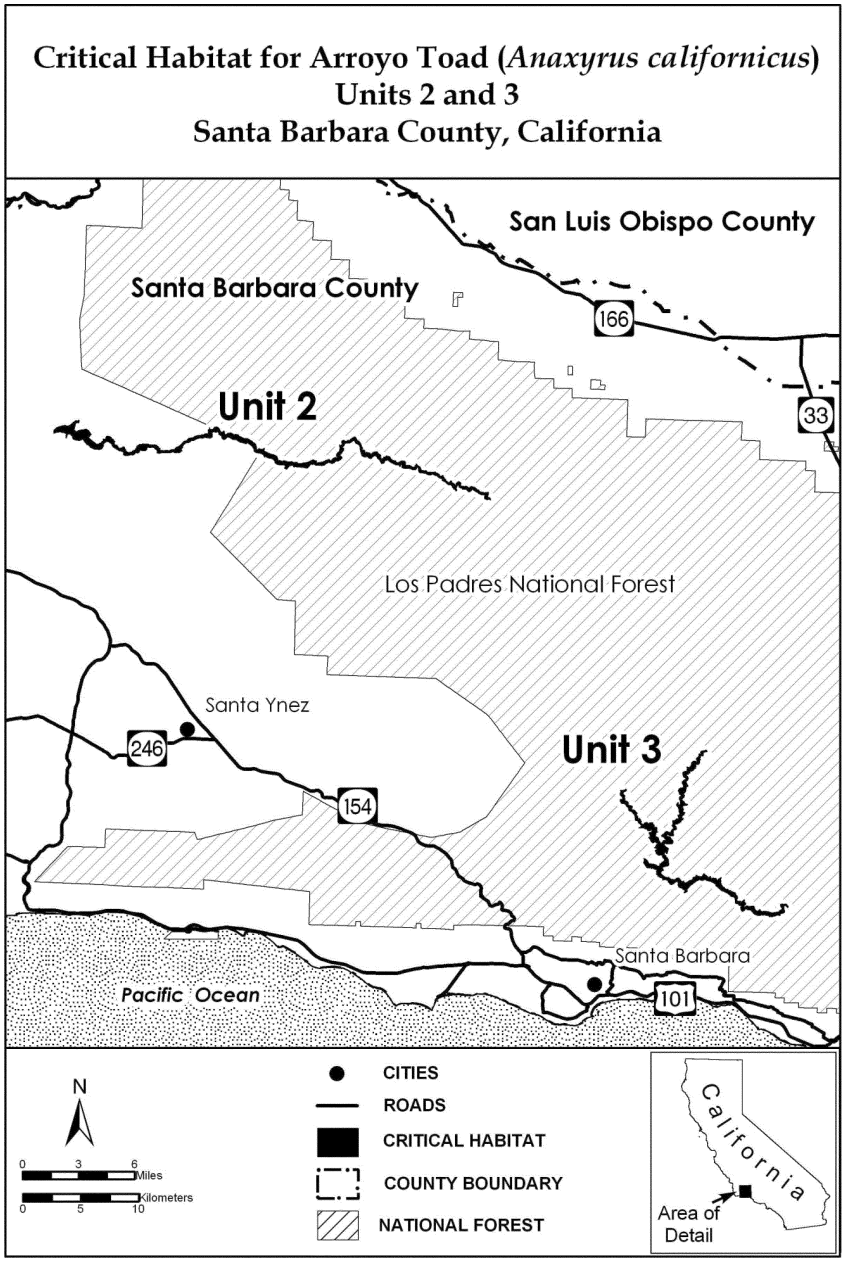
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(ii) *Note:* Map of Units 2 and 3 follows:



(9) Unit 4: Sespe Creek, Ventura County, California.

(i) From USGS 1:24,000 quadrangle maps Wheeler Springs, Lion Canyon, Topatopa Mts., and Devil's Heart Peak, land bounded by the following UTM coordinates (E, N): 292923, 3828526; 292923, 3828496; 292953, 3828496; 292953, 3828376; 292923, 3828376; 292923, 3828316;

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(ii) *Note:* Map of Unit 4 is provided at paragraph (10)(iii) of this entry.

(10) Unit 5: Piru Creek, Ventura and Los Angeles Counties, California.

(i) Subunit 5a: From USGS 1:24,000 quadrangle maps Lockwood Valley, Alamo Mtn., and Black Mtn., land upstream from Pyramid Lake bounded by the following UTM coordinates (E, N): 319293, 3842776; 319293, 3842746; 319353, 3842746; 319353, 3842716; 319383, 3842716; 319383, 3842626; 319413, 3842626; 319413, 3842536; 319443, 3842536; 319443, 3842506; 319473, 3842506; 319473, 3842446; 319503, 3842446; 319503, 3842476; 319533, 3842476; 319533, 3842536; 319623, 3842536; 319623, 3842506; 319683, 3842506; 319683, 3842476; 319713, 3842476; 319713, 3842446; 319773, 3842446; 319773, 3842476; 319803, 3842476; 319803, 3842536; 319833, 3842536; 319833, 3842596; 319863, 3842596; 319863, 3842686; 319923, 3842686; 319923, 3842716; 319953, 3842716; 319953, 3842746; 320013, 3842746; 320013, 3842716; 320073, 3842716; 320073, 3842686; 320103, 3842686; 320103, 3842626; 320163, 3842626; 320163, 3842656; 320193, 3842656; 320193, 3842686; 320283, 3842686; 320283, 3842656; 320313, 3842656; 320313, 3842686; 320403, 3842686; 320403, 3842716; 320433, 3842716; 320433, 3842686; 320463, 3842686; 320463, 3842596; 320523, 3842596; 320523, 3842566; 320613, 3842566; 320613, 3842596; 320643, 3842596; 320643, 3842626; 320703, 3842626; 320703, 3842596; 320733, 3842596; 320733, 3842566; 320793, 3842566; 320793, 3842506; 320823, 3842506; 320823, 3842446; 320853, 3842446; 320853, 3842356; 320883, 3842356; 320883, 3842326; 320913, 3842326; 320913, 3842296; 320973, 3842296; 320973, 3842326; 321063, 3842326; 321063, 3842356; 321123, 3842356; 321123, 3842386; 321153, 3842386; 321153, 3842356; 321213, 3842356; 321213, 3842386; 321273, 3842386; 321273, 3842356; 321363, 3842356; 321363, 3842326; 321693, 3842326; 321693, 3842356; 321723, 3842356; 321723, 3842416; 321753, 3842416; 321753, 3842356; 321783, 3842356; 321783, 3842326; 321903, 3842326; 321903, 3842296; 321933, 3842296; 321933, 3842236; 321963, 3842236; 321963, 3842206; 321993, 3842206; 321993, 3842236; 322053, 3842236; 322053, 3842266; 322143, 3842266; 322143, 3842296; 322233, 3842296; 322233, 3842326; 322293, 3842326; 322293, 3842356; 322353, 3842356; 322353, 3842326; 322413, 3842326; 322413, 3842296; 322443, 3842296; 322443, 3842266; 322473, 3842266; 322473, 3842206; 322503, 3842206; 322503, 3842086; 322473, 3842086; 322473, 3842056; 322503, 3842056; 322503, 3841966; 322563, 3841966; 322563, 3841936; 322623, 3841936; 322623, 3841906; 322713, 3841906; 322713, 3841846; 322743, 3841846; 322743, 3841816; 322773, 3841816; 322773, 3841726; 322833, 3841726; 322833, 3841696; 322863, 3841696; 322863, 3841576; 322893, 3841576; 322893, 3841456; 322953, 3841456; 322953, 3841426; 322983, 3841426; 322983, 3841276; 323013, 3841276; 323013, 3841186; 323043, 3841186; 323043, 3841156; 323103, 3841156; 323103, 3841126; 323223, 3841126; 323223, 3841096; 323253, 3841096; 323253, 3841066; 323283, 3841066; 323283, 3841006; 323313, 3841006; 323313, 3840976; 323373, 3840976; 323373, 3840886; 323433, 3840886; 323433, 3840916; 323583, 3840916; 323583, 3840946; 323613,

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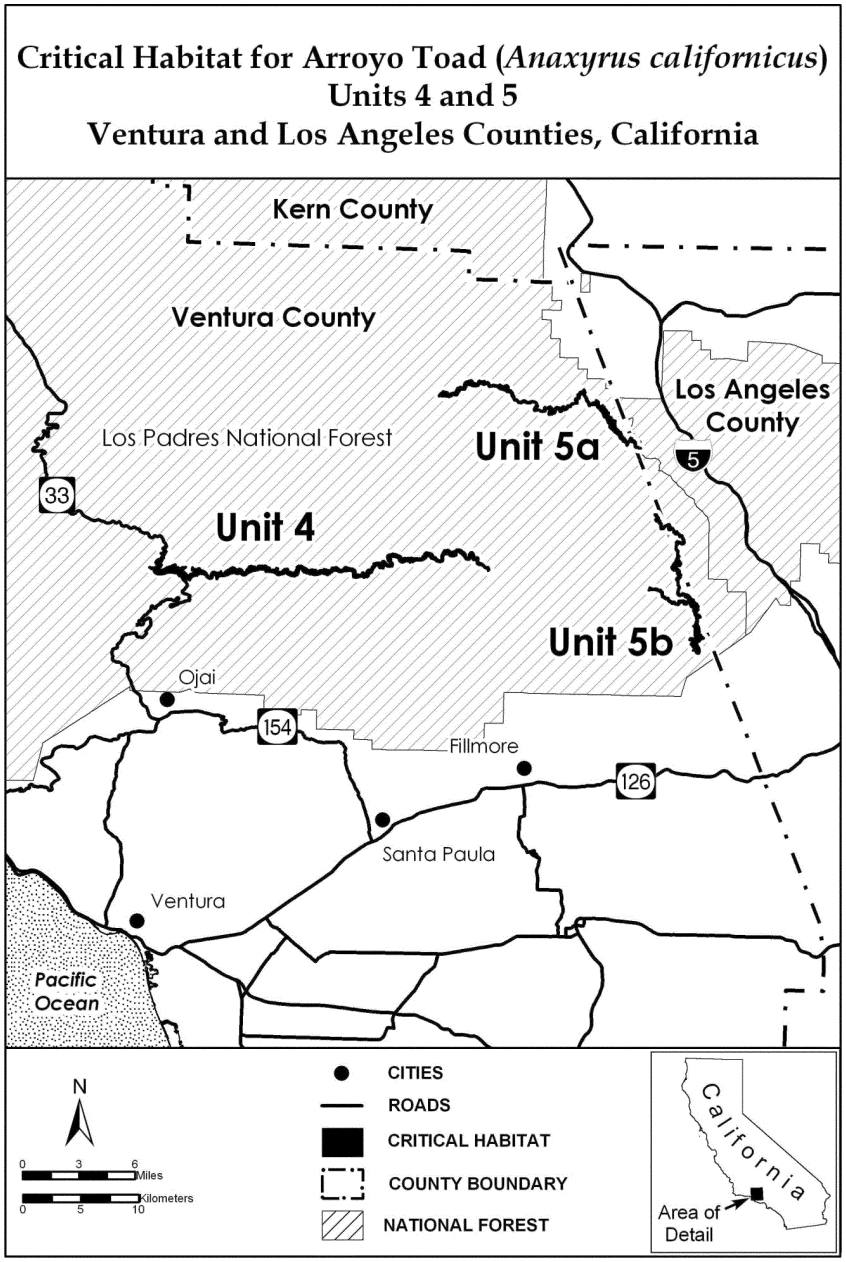
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(iii) *Note:* Map of Units 4 and 5 follows:



(11) Unit 6: Upper Santa Clara River Basin, Los Angeles County, California.

(i) Subunit 6a: From USGS 1:24,000 quadrangle maps Liebre Mtn. and Whitaker Peak, land upstream of Castaic Lake, bounded by the following UTM coordinates (E, N): 347013, 3835726; 347013, 3835696; 347043, 3835696; 347043, 3835576; 347073, 3835576; 347073, 3835546; 347103,

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(ii) Subunit 6b: From USGS 1:24,000 quadrangle maps Val Verde and Newhall, land bounded by the following UTM coordinates (E, N): 351607, 3812015; 351519, 3811959; 351509, 3811885; 351441, 3811818; 351334, 3811775; 351265, 3811817; 351198, 3811784; 351050, 3811684; 350707, 3811270; 350549, 3811035; 350461, 3810962; 350392, 3810900; 350536, 3810555; 350611, 3810615; 350651, 3810701; 350911, 3810836; 350996, 3810902; 351071, 3811080; 351233, 3811324; 351219, 3811410; 351600, 3811716; 351723, 3811700; 351817, 3811720; 351869, 3811755; 351931, 3811780; 352028, 3811785; 352275, 3811789; 352444, 3811775; 352470, 3811769; 352572, 3811731; 352656, 3811722; 352693, 3811705; 352754, 3811671; 352780, 3811675; 352794, 3811672; 352866, 3811626; 352898, 3811602; 352914, 3811598; 352942, 3811612; 352987, 3811637; 353083, 3811663; 353147, 3811702; 353216, 3811740; 353234, 3811758; 353232, 3811809; 353269, 3811790; 353276, 3811785; 353335, 3811693; 353500, 3811489; 353620, 3811270; 353712, 3811027; 353790, 3810921; 353806, 3810879; 353836, 3810829; 353902, 3810814; 354034, 3810821; 354163, 3810711; 354188, 3810661; 354219, 3810611; 354385, 3810571; 354404, 3810585; 354407, 3810621; 354340, 3810791; 354401, 3810779; 354503, 3810743; 354626, 3810700; 354675, 3810672; 354728, 3810658; 354809, 3810606; 354872, 3810556; 354931, 3810602; 354944, 3810635; 354962, 3810664; 354999, 3810679; 355059, 3810710; 355104, 3810722; 355134, 3810752; 355211, 3810742; 355239, 3810746; 355261, 3810741; 355286, 3810734; 355312, 3810731; 355340, 3810738; 355367, 3810705; 355334, 3810669; 355308, 3810641; 355272, 3810602; 355329, 3810504; 355339, 3810502; 355434, 3810487; 355489, 3810439; 355510, 3810432; 355515, 3810392; 355464, 3810402; 355405, 3810353; 355244, 3810403; 355176, 3810435; 355113, 3810417; 355091, 3810325; 354761, 3810325; 354746, 3810358; 354539, 3810348; 354510, 3810406; 354477, 3810400; 354282, 3810496; 354213, 3810530; 354144, 3810533; 354039, 3810589; 353745, 3810703; 353618, 3810835; 353493, 3810884; 353457, 3810959; 353464, 3811077; 353461, 3811117; 353440, 3811155; 353401, 3811177; 353203, 3811177; 353129, 3811231; 353097, 3811234; 353059, 3811234; 353025, 3811241; 353000, 3811258; 352943, 3811285; 352799, 3811294; 352639, 3811323; 352632, 3811323; 352526, 3811295; 352391, 3811345; 352293, 3811456; 352263, 3811456; 352263, 3811486; 352203, 3811486; 352203, 3811516; 352143, 3811516; 352143, 3811486; 352083, 3811486; 352083, 3811516; 352053, 3811516; 352053, 3811546; 351933, 3811546; 351933, 3811516; 351903, 3811516; 351903, 3811486; 351873, 3811486; 351873, 3811456; 351843, 3811456; 351843, 3811396; 351813, 3811396; 351813, 3811366; 351783, 3811366; 351783, 3811306; 351753, 3811306; 351753, 3811246; 351723, 3811246; 351723, 3811216; 351693, 3811216; 351693, 3811126; 351723, 3811126; 351723, 3811096; 351753, 3811096; 351753, 3811036; 351783, 3811036; 351783, 3811006; 351843, 3811006; 351843, 3810946; 351873, 3810946; 351873, 3810916; 351903, 3810916; 351903, 3810886; 351873, 3810886; 351873, 3810856; 351783, 3810856; 351783, 3810886; 351693, 3810886; 351693, 3810916; 351633, 3810916; 351633, 3810886; 351573, 3810886; 351573, 3810856; 351543, 3810856; 351543, 3810826; 351513, 3810826; 351513, 3810796; 351483, 3810796; 351483, 3810766; 351453, 3810766; 351453, 3810736; 351423, 3810736; 351423, 3810706; 351393, 3810706; 351393, 3810586; 351423, 3810586; 351423, 3810556; 351483, 3810556; 351483, 3810526; 351573, 3810526; 351573, 3810496; 351513, 3810496; 351513, 3810406; 351423, 3810406; 351423, 3810436; 351333, 3810436; 351333, 3810406; 351273, 3810406; 351273, 3810376; 351213, 3810376; 351213, 3810346; 351123, 3810346; 351123, 3810316; 351063, 3810316; 351063, 3810286; 350973, 3810286; 350973, 3810256; 350913, 3810256; 350913, 3810196; 350853, 3810196; 350853, 3810166; 350823, 3810166; 350823, 3810106; 350793, 3810106; 350793, 3810016; 350763, 3810016; 350763, 3809986; 350733, 3809986; 350733, 3810016; 350703, 3810016; 350703, 3810046; 350673, 3810046; 350673, 3810016; 350613, 3810016; 350613, 3809986; 350583, 3809986; 350583, 3809956; 350553, 3809956; 350553, 3809926; 350523, 3809926; 350523, 3809896; 350463, 3809896; 350463, 3809866; 350433, 3809866; 350433, 3809806; 350463, 3809806; 350463, 3809776; 350493, 3809776; 350493, 3809716; 350523, 3809716; 350523, 3809686; 350493, 3809686; 350493, 3809656; 350403, 3809656; 350403, 3809686; 350343, 3809686; 350343, 3809716; 350283, 3809716; 350283, 3809746; 350163, 3809746; 350163, 3809716; 350073, 3809716; 350073, 3809746; 349803, 3809746; 349803, 3809716; 349773, 3809716; 349773, 3809656; 349743, 3809656; 349743, 3809626; 349713, 3809626; 349713, 3809656; 349683, 3809656; 349683, 3809716; 349653, 3809716; 349653, 3809746; 349593, 3809746; 349593, 3809776; 349443, 3809776; 349443, 3809746; 349413,

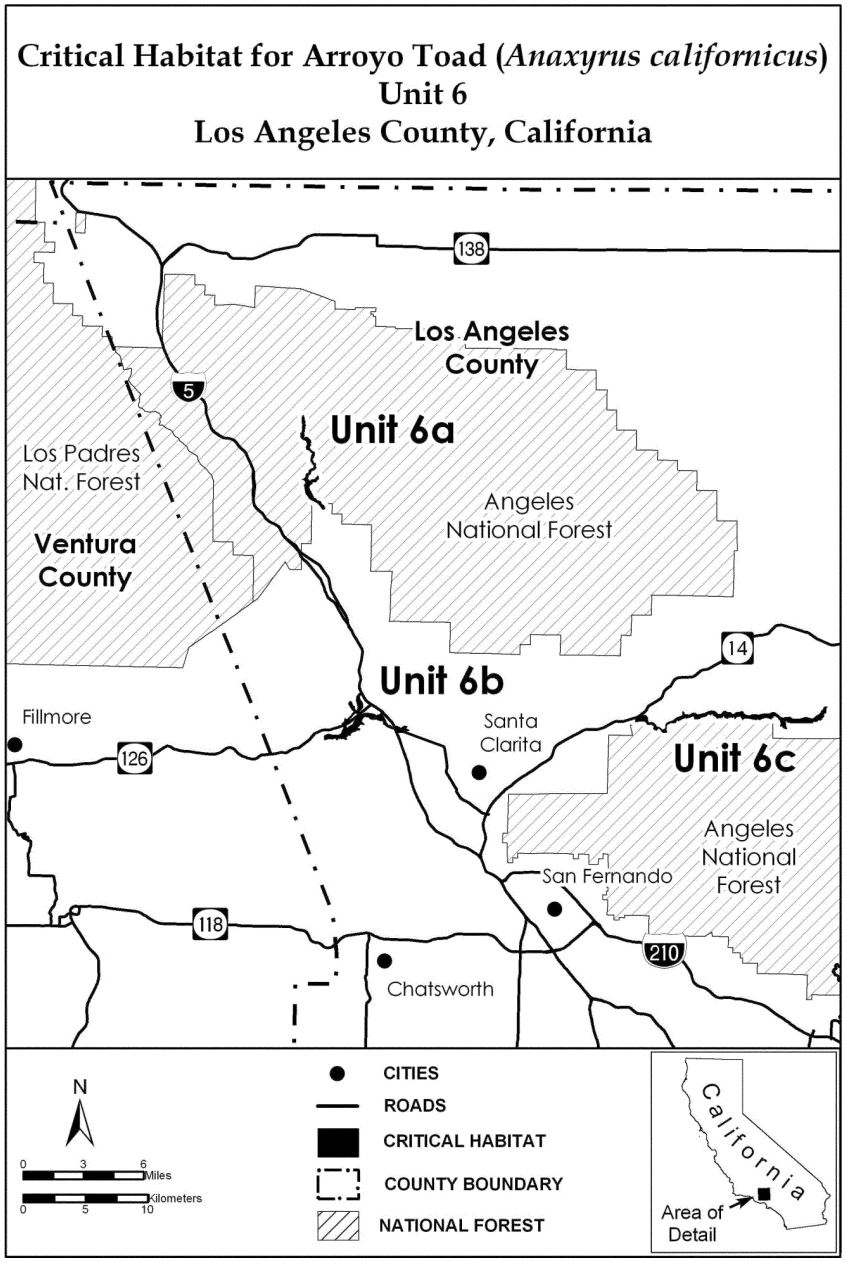
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(iii) Subunit 6c: From USGS 1:24,000 quadrangle maps Agua Dulce, and Acton, land bounded by the following UTM coordinates (E, N): 388803, 3811696; 388803, 3811636; 388833, 3811636; 388833, 3811606; 388863, 3811606; 388863, 3811576; 388833, 3811576; 388833, 3811486; 388773, 3811486; 388773, 3811426; 388683, 3811426; 388683, 3811306; 388653, 3811306; 388653, 3811276; 388623, 3811276; 388623, 3811246; 388593, 3811246; 388593, 3811216; 388353, 3811216; 388353, 3811186; 388293, 3811186; 388293, 3811126; 387965, 3811126; 387965, 3810996; 386223, 3810996; 386223, 3811006; 386163, 3811006; 386163, 3811036; 386013, 3811036; 386013, 3811066; 385953, 3811066; 385953, 3811096; 385893, 3811096; 385893, 3811186; 385773, 3811186; 385773, 3811156; 385743, 3811156; 385743, 3811036; 385773, 3811036; 385773, 3810706; 385803, 3810706; 385803, 3810646; 385833, 3810646; 385833, 3810586; 385863, 3810586; 385863, 3810526; 385773, 3810526; 385773, 3810556; 385713, 3810556; 385713, 3810586; 385623, 3810586; 385623, 3810646; 385563, 3810646; 385563, 3810706; 385533, 3810706; 385533, 3810766; 385503, 3810766; 385503, 3810796; 385443, 3810796; 385443, 3810766; 385383, 3810766; 385383, 3810736; 385353, 3810736; 385353, 3810826; 385383, 3810826; 385383, 3810886; 385413, 3810886; 385413, 3811006; 385383, 3811006; 385383, 3811066; 385353, 3811066; 385353, 3811216; 385323, 3811216; 385323, 3811276; 385293, 3811276; 385293, 3811246; 385263, 3811246; 385263, 3811276; 385233, 3811276; 385233, 3811396; 385203, 3811396; 385203, 3811426; 385173, 3811426; 385173, 3811456; 385113, 3811456; 385113, 3811486; 385083, 3811486; 385083, 3811516; 385023, 3811516; 385023, 3811546; 384963, 3811546; 384963, 3811576; 384783, 3811576; 384783, 3811546; 384753, 3811546; 384753, 3811516; 384783, 3811516; 384783, 3811426; 384723, 3811426; 384723, 3811456; 384693, 3811456; 384693, 3811426; 384633, 3811426; 384633, 3811306; 384573, 3811306; 384573, 3811336; 384543, 3811336; 384543, 3811366; 384453, 3811366; 384453, 3811396; 384333, 3811396; 384333, 3811426; 384033, 3811426; 384033, 3811366; 383883, 3811366; 383883, 3811336; 383823, 3811336; 383823, 3811306; 383793, 3811306; 383793, 3811276; 383703, 3811276; 383703, 3811246; 383673, 3811246; 383673, 3811306; 383643, 3811306; 383643, 3811276; 383553, 3811276; 383553, 3811306; 383433, 3811306; 383433, 3811246; 383343, 3811246; 383343, 3811276; 383253, 3811276; 383253, 3811306; 383193, 3811306; 383193, 3811276; 383163, 3811276; 383163, 3811306; 383103, 3811306; 383103, 3811336; 383073, 3811336; 383073, 3811306; 383043, 3811306; 383043, 3811336; 382893, 3811336; 382893, 3811366; 382623, 3811366; 382623, 3811396; 382503, 3811396; 382503, 3811366; 382443, 3811366; 382443, 3811336; 382383, 3811336; 382383, 3811306; 382353, 3811306; 382353, 3811246; 382323, 3811246; 382323, 3811336; 382293, 3811336; 382293, 3811366; 382263, 3811366; 382263, 3811426; 382233, 3811426; 382233, 3811456; 382203, 3811456; 382203, 3811516; 382173, 3811516; 382173, 3811546; 382143, 3811546; 382143, 3811576; 382083, 3811576; 382083, 3811546; 382023, 3811546; 382023, 3811516; 381903, 3811516; 381903, 3811546; 381813, 3811546; 381813, 3811456; 381783, 3811456; 381783, 3811396; 381723, 3811396; 381723, 3811336; 381693, 3811336; 381693, 3811366; 381663, 3811366; 381663, 3811486; 381543, 3811486; 381543, 3811456; 381453, 3811456; 381453, 3811486; 381423, 3811486; 381423, 3811516; 381333, 3811516; 381333, 3811486; 381303, 3811486; 381303, 3811426; 381273, 3811426; 381273, 3811486; 381213, 3811486; 381213, 3811456; 381183, 3811456; 381183, 3811426; 381153, 3811426; 381153, 3811396; 381123, 3811396; 381123, 3811366; 381063, 3811366; 381063, 3811396; 380973, 3811396; 380973, 3811426; 380883, 3811426; 380883, 3811456; 380853, 3811456; 380853, 3811606; 380823, 3811606; 380823, 3811636; 380793, 3811636; 380793, 3811576; 380763, 3811576; 380763, 3811546; 380733, 3811546; 380733, 3811516; 380703, 3811516; 380703, 3811486; 380673, 3811486; 380673, 3811456; 380643, 3811456; 380643, 3811426; 380583, 3811426; 380583, 3811396; 380553, 3811396; 380553, 3811426; 380403, 3811426; 380403, 3811396; 380313, 3811396; 380313, 3811366; 380253, 3811366; 380253, 3811456; 380223, 3811456; 380223, 3811486; 380193, 3811486; 380193, 3811516; 380133, 3811516; 380133, 3811576; 380103, 3811576; 380103, 3811606; 380043, 3811606; 380043, 3811576; 380013, 3811576; 380013, 3811606; 379983, 3811606; 379983, 3811666; 379953, 3811666; 379953, 3811696; 379923, 3811696; 379923, 3811726; 379893, 3811726; 379893, 3811756; 379803, 3811756; 379803, 3811726; 379773, 3811726; 379773, 3811696; 379803, 3811696; 379803, 3811636; 379743, 3811636; 379743, 3811666; 379713, 3811666; 379713, 3811696; 379653, 3811696; 379653, 3811726; 379623, 3811726; 379623, 3811696; 379563,

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(iv) *Note:* Map of Unit 6 follows.



(12) Unit 7: Upper Los Angeles River Basin, Los Angeles County, California.

(i) From USGS 1:24,000 quadrangle maps Condor Peak and Chilao Flat, land in the Big Tujunga Creek basin bounded by the following UTM zone 11, NAD83 coordinates (E, N): 398433, 3797296; 398403, 3797296; 398403,

3797326; 398433, 3797326; returning to 398433, 3797296.

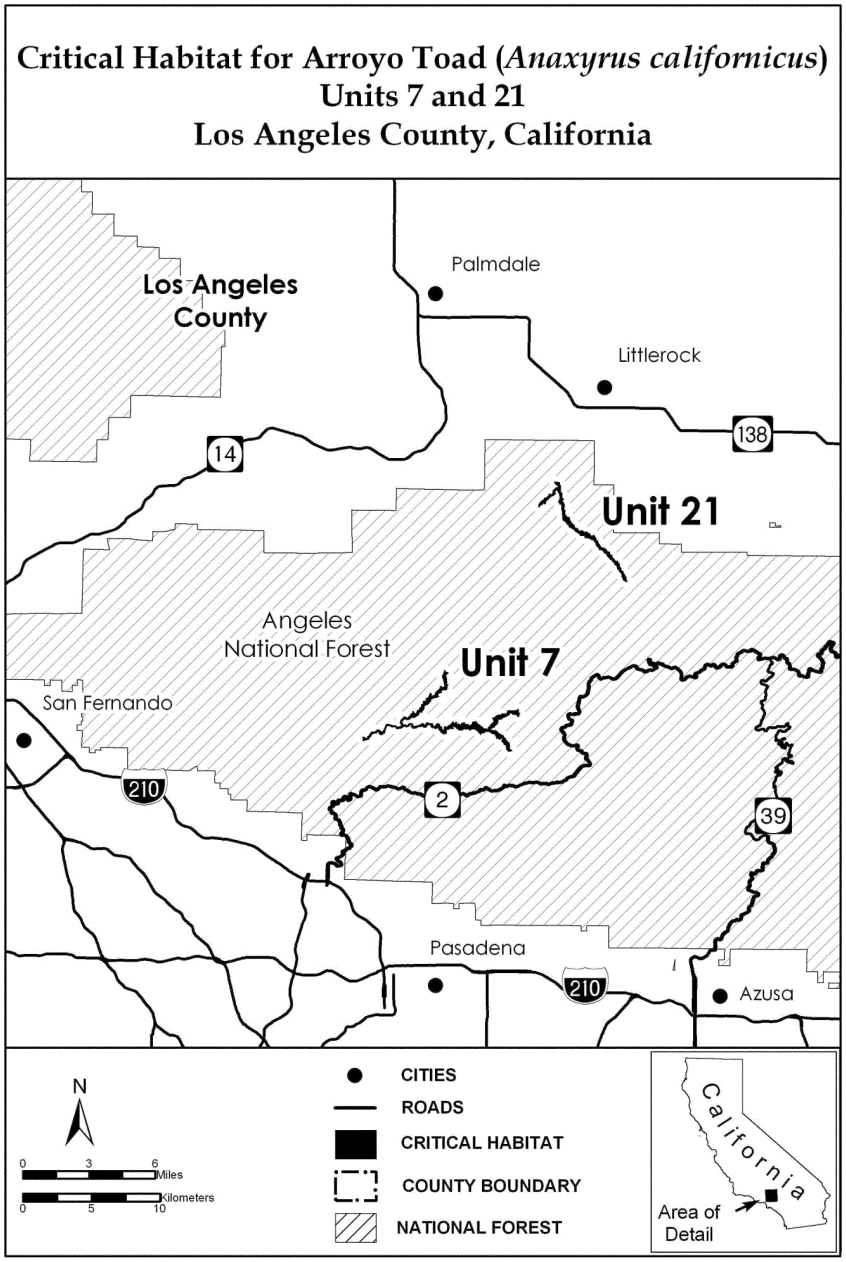
(ii) Land bounded by the following UTM coordinates (E, N): 398433, 3797296; 398463, 3797296; 398463, 3797326; 398523, 3797326; 398523, 3797446; 398553, 3797446; 398553, 3797416; 398583, 3797416; 398583, 3797386; 398613, 3797386; 398613, 3797326; 398643, 3797326; 398643, 3797296; 398703, 3797296; 398703, 3797326; 398733, 3797326; 398733, 3797356; 398763, 3797356; 398763, 3797386; 398823, 3797386; 398823, 3797326; 398793, 3797326; 398793, 3797266; 398823, 3797266; 398823, 3797236; 398943, 3797236; 398943, 3797266; 399003, 3797266; 399003, 3797236; 399033, 3797236; 399033, 3797206; 399003, 3797206; 399003, 3797146; 399093, 3797146; 399093, 3797176; 399123, 3797176; 399123, 3797206; 399153, 3797206; 399153, 3797296; 399183, 3797296; 399183, 3797326; 399213, 3797326; 399213, 3797296; 399243, 3797296; 399243, 3797266; 399273, 3797266; 399273, 3797296; 399303, 3797296; 399303, 3797326; 399363, 3797326; 399363, 3797356; 399393, 3797356; 399393, 3797236; 399633, 3797236; 399633, 3797206; 399693, 3797206; 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(iii) *Note:* Map of Units 7 and 21 follows.



(13) Unit 8: Lower Santa Ana River Basin, Orange County, California.

(i) From USGS 1:24,000 quadrangle maps Black Star Canyon, Corona South, El Toro, and Santiago Peak, land bounded by the following UTM coordinates (E, N): 439642, 3732778; 439642, 3732749; 439671, 3732749; 439671, 3732721; 439699, 3732721; 439699, 3732692; 439727,

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(ii) Land bounded by the following UTM coordinates (E, N): 446706, 3734905; 446706, 3734877; 446734, 3734877; 446734, 3734849; 446763, 3734849; 446763, 3734820; 446791, 3734820; 446791, 3734792; 446820, 3734792; 446820, 3734735; 446791, 3734735; 446791, 3734763; 446734, 3734763; 446734, 3734735; 446678, 3734735; 446678, 3734707; 446593, 3734707; 446593, 3734678; 446536, 3734678; 446536, 3734650; 446366, 3734650; 446366, 3734622; 446337, 3734622; 446337, 3734565; 446309, 3734565; 446309, 3734536; 446281, 3734536; 446281, 3734508; 446252, 3734508; 446252, 3734480; 446224, 3734480; 446224, 3734451; 446195, 3734451; 446195, 3734423; 446167, 3734423; 446167, 3734366; 446054, 3734366; 446054, 3734338; 446025, 3734338; 446025, 3734309; 445997, 3734309; 445997, 3734253; 445968, 3734253; 445968, 3734196; 445940, 3734196; 445940, 3734083; 445968, 3734083; 445968, 3734054; 445855, 3734054; 445855, 3733997; 445770, 3733997; 445770, 3734026; 445685, 3734026; 445685, 3734054; 445600, 3734054; 445600, 3734083; 445344, 3734083; 445344, 3734111; 445259, 3734111; 445259, 3734139; 444919, 3734139; 444919, 3734111; 444749, 3734111; 444749, 3734139; 444635, 3734139; 444635, 3734111; 444578, 3734111; 444578, 3734083; 444408, 3734083; 444408, 3734111; 444380, 3734111; 444380, 3734083; 444153, 3734083; 444153, 3734054; 444068, 3734054; 444068, 3734083; 443869, 3734083; 443869, 3734111; 443841, 3734111; 443841, 3734139; 443699, 3734139; 443699, 3734111; 443585, 3734111; 443585, 3734139; 443529, 3734139; 443529, 3734168; 443472, 3734168; 443472, 3734139; 443358, 3734139; 443358, 3734168; 443302, 3734168; 443302, 3734196; 443273, 3734196; 443273, 3734224; 443217, 3734224; 443217, 3734253; 443188, 3734253; 443188, 3734281; 443018, 3734281; 443018, 3734253; 442933, 3734253; 442933, 3734224; 442905, 3734224; 442905, 3734196; 442819, 3734196; 442819, 3734168; 442706, 3734168; 442706, 3734139; 442649, 3734139; 442649, 3734054; 442564, 3734054; 442564, 3734083; 442536, 3734083; 442536, 3734139; 442507, 3734139; 442507, 3734168; 442451, 3734168; 442451, 3734139; 442394, 3734139; 442394, 3734083; 442366, 3734083; 442366, 3734054; 442337, 3734054; 442337, 3734083; 442309, 3734083; 442309, 3734168; 442280, 3734168; 442280, 3734224; 442195, 3734224; 442195, 3734196; 442054, 3734196; 442054, 3734168; 441968, 3734168; 441968, 3734139; 441912, 3734139; 441912, 3734111; 441855, 3734111; 441855, 3734139; 441827, 3734139; 441827, 3734111; 441798, 3734111; 441798, 3734139; 441741, 3734139; 441741, 3734168; 441628, 3734168; 441628, 3734196; 441543, 3734196; 441543, 3734224; 441401,

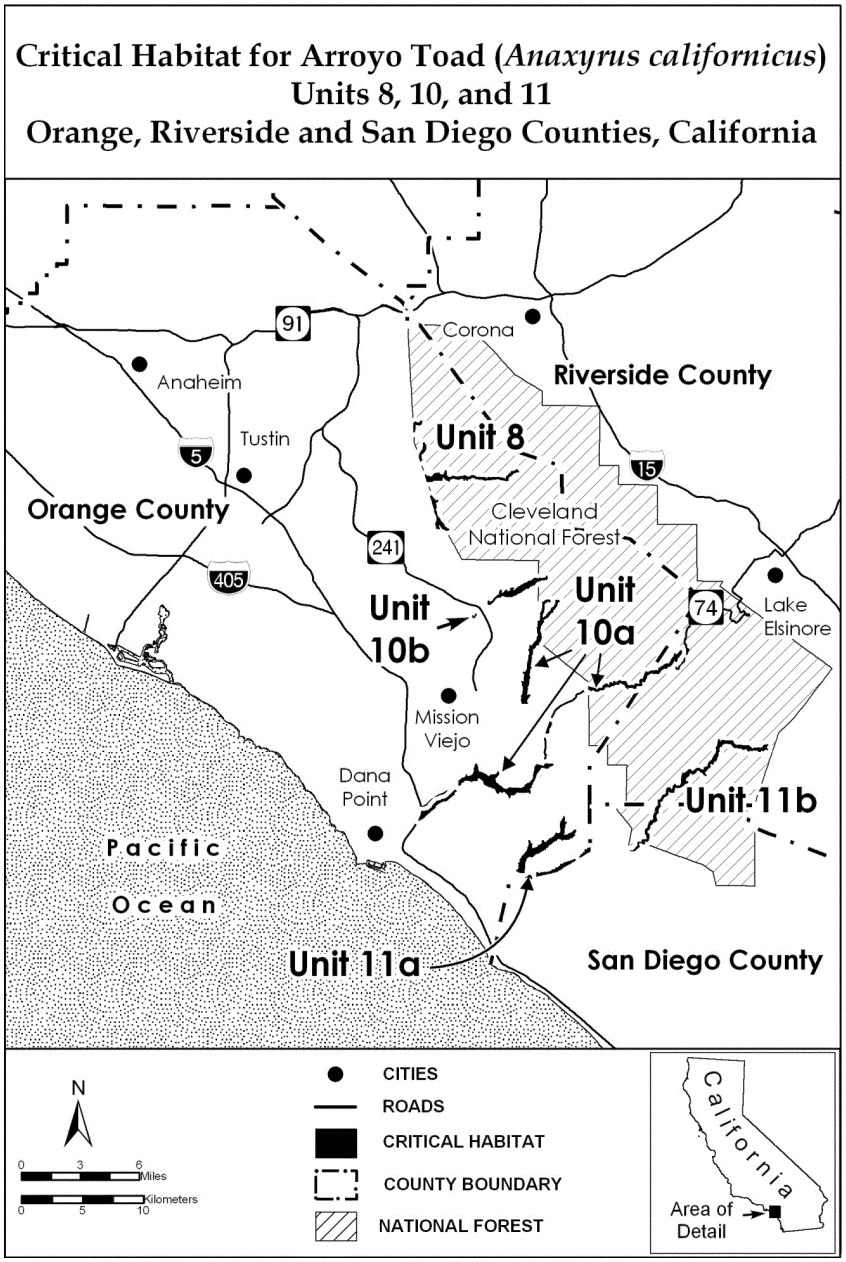
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(iii) Land bounded by the following UTM coordinates (E, N): 439075, 3737033; 439075, 3737005; 439132, 3737005; 439132, 3736976; 439188, 3736976; 439188, 3736948; 439217, 3736948; 439217, 3736919; 439188, 3736919; 439188, 3736692; 439160, 3736692; 439160, 3736664; 439188, 3736664; 439188, 3736607; 439160, 3736607; 439160, 3736522; 439132, 3736522; 439132, 3736437; 439103, 3736437; 439103, 3736409; 439046, 3736409; 439046, 3736352; 439018, 3736352; 439018, 3736324; 438990, 3736324; 438990, 3736295; 438961, 3736295; 438961, 3736267; 438933, 3736267; 438933, 3736239; 438848, 3736239; 438848, 3736182; 438819, 3736182; 438819, 3736125; 438791, 3736125; 438791, 3736040; 438819, 3736040; 438819, 3735955; 438791, 3735955; 438791, 3735927; 438819, 3735927; 438819, 3735841; 438848, 3735841; 438848, 3735756; 438905, 3735756; 438905, 3735728; 438848, 3735728; 438848, 3735700; 438819, 3735700; 438819, 3735643; 438791, 3735643; 438791, 3735614; 438770, 3735614; 438763, 3735636; 438678, 3735898; 438678, 3736125; 438706, 3736125; 438706, 3736182; 438734, 3736182; 438734, 3736267; 438763, 3736267; 438763, 3736295; 438791, 3736295; 438791, 3736352; 438848, 3736352; 438848, 3736380; 438876, 3736380; 438876, 3736466; 438905, 3736466; 438905, 3736494; 438933, 3736494; 438933, 3736522; 438961, 3736522; 438961, 3736551; 438990, 3736551; 438990, 3736721; 439018, 3736721; 439018, 3736749; 439046, 3736749; 439046, 3736834; 439018, 3736834; 439018, 3736863; 439046, 3736863; 439046, 3736891; 439018, 3736891; 439018, 3737061; 439018, 3737090; 439046, 3737090; 439046, 3737118; 439075, 3737118; returning to 439075, 3737033.

(iv) Land bounded by the following UTM coordinates (E, N): 438819, 3738707; 438819, 3738650; 438791, 3738650; 438791, 3738622; 438763, 3738622; 438763, 3738593; 438678, 3738593; 438678, 3738565; 438593, 3738565; 438593, 3738593; 438536, 3738593; 438536, 3738622; 438394, 3738622; 438394, 3738593; 438337, 3738593; 438337, 3738565; 438309, 3738565; 438309, 3738423; 438337, 3738423; 438337,

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(v) *Note:* Map of Units 8, 10, and 11 follows.



(14) Unit 9: San Jacinto River Basin, Riverside County, California.

(i) Subunit 9a: From USGS 1:24,000 quadrangle maps San Jacinto, Lake Fulmor, Hemet and Blackburn Canyon, land bounded by the following UTM coordinates (E, N): 511446, 3735434; 511416, 3735434; 511416, 3735453;

511469, 3735455; 511469, 3735434; returning to 511446, 3735434.

(ii) Land bounded by the following UTM coordinates (E, N): 510915, 3735426; 510915, 3735426; 511236, 3735443; 511236, 3735434; 511266, 3735434; 511266, 3735374; 511296, 3735374; 511296, 3735344; 511326, 3735344; 511326, 3735314; 511386, 3735314; 511386, 3735284; 511446, 3735284; 511446, 3735254; 511471, 3735254; 511473, 3734974; 511953, 3734586; 512009, 3734541; 512526, 3734545; 512526, 3734534; 512676, 3734534; 512676, 3734546; 512704, 3734546; 512796, 3734547; 512796, 3734474; 512826, 3734474; 512826, 3734444; 512886, 3734444; 512886, 3734414; 512916, 3734414; 512916, 3734384; 512946, 3734384; 512946, 3734354; 513156, 3734354; 513156, 3734324; 513216, 3734324; 513216, 3734294; 513246, 3734294; 513246, 3734264; 513276, 3734264; 513276, 3734234; 513306, 3734234; 513306, 3734204; 513336, 3734204; 513336, 3734174; 513606, 3734174; 513606, 3734144; 513636, 3734144; 513636, 3734114; 513696, 3734114; 513696, 3734084; 513726, 3734084; 513726, 3734054; 513756, 3734054; 513756, 3734024; 513966, 3734024; 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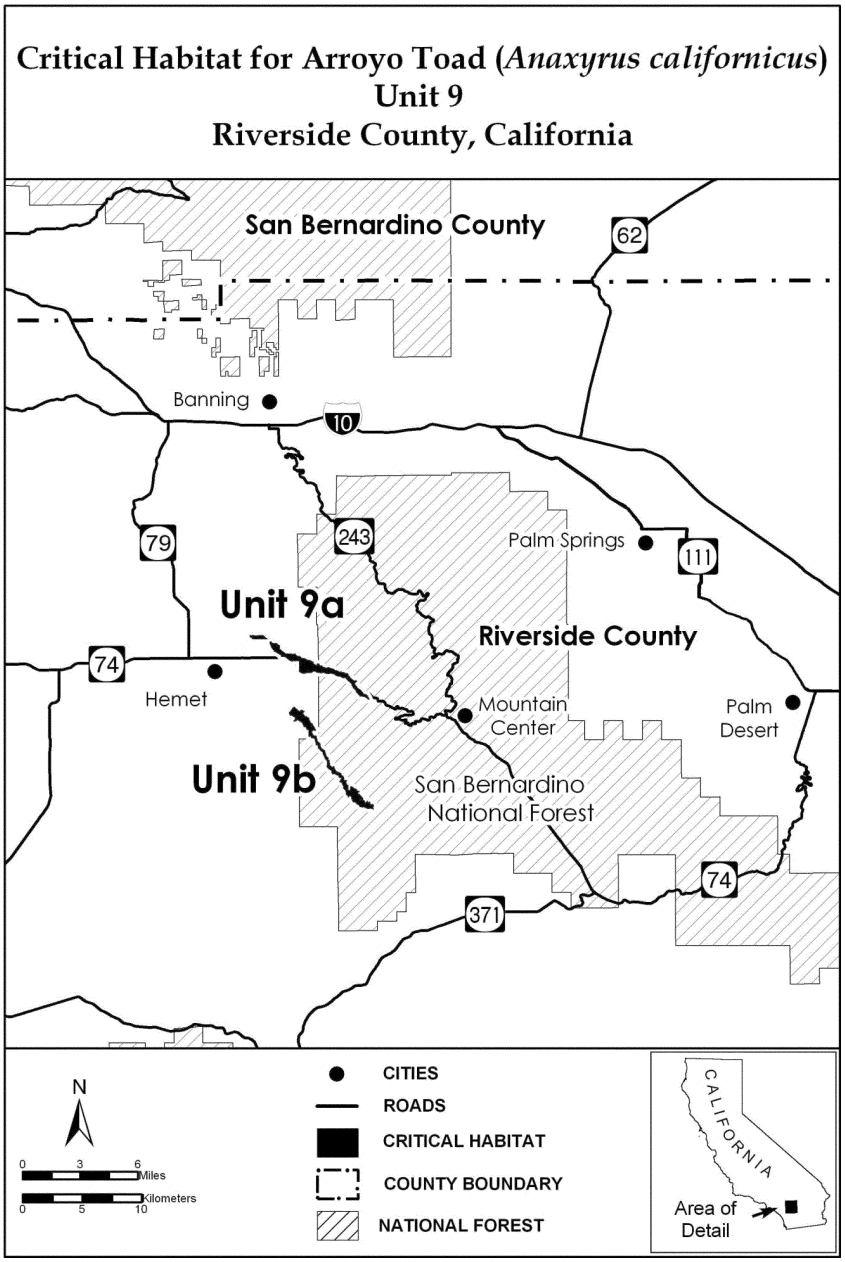
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(iv) Subunit 9b: From USGS 1:24,000 quadrangle map Blackburn Canyon, land bounded by the following UTM coordinates (E, N): 512766, 3730034; 512766, 3730004; 512796, 3730004; 512796, 3729974; 512826, 3729974; 512826, 3729944; 512886, 3729944; 512886, 3729914; 512916, 3729914; 512916, 3729884; 512946, 3729884; 512946, 3729854; 512976, 3729854; 512976, 3729824; 513006, 3729824; 513006, 3729794; 513066, 3729794; 513066, 3729764; 513096, 3729764; 513096, 3729704; 513186, 3729704; 513186, 3729734; 513216, 3729734; 513216, 3729794; 513246, 3729794; 513246, 3729824; 513426, 3729824; 513426, 3729794; 513456, 3729794; 513456, 3729764; 513486, 3729764; 513486, 3729734; 513546, 3729734; 513546, 3729704; 513516, 3729704; 513516, 3729674; 513486, 3729674; 513486, 3729644; 513456, 3729644; 513456, 3729614; 513426, 3729614; 513426, 3729554; 513396, 3729554; 513396, 3729524; 513456, 3729524; 513456, 3729494; 513486, 3729494; 513486, 3729374; 513576, 3729374; 513576, 3729344; 513606, 3729344; 513606, 3729254; 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(v) *Note:* Map of Units 9 follows.



(15) Unit 10: San Juan Creek Basin, Orange and Riverside Counties, California.

(i) Subunit 10a: From USGS 1:24,000 quadrangle maps Dana Point, San Juan Capistrano, Canada Gobernadora, Sitton Peak and Santiago Peak, land bounded by the following UTM coordinates (E, N): 447472,

3708409; 447500, 3708409; 447500, 3708380; 447472, 3708380; returning to 447472, 3708409.

(ii) Land bounded by the following UTM coordinates (E, N): 441070, 3707874; 440879, 3707726; 440814, 3707675; 440754, 3707729; 440678, 3707697; 440528, 3707653; 440465, 3707615; 440377, 3707567; 440272, 3707509; 440174, 3707454; 440104, 3707399; 440020, 3707298; 439965, 3707219; 440000, 3707162; 439676, 3706892; 439661, 3706908; 438873, 3706187; 438824, 3706258; 438695, 3706127; 438635, 3706121; 438686, 3706234; 438758, 3706415; 438804, 3706545; 438837, 3706647; 438873, 3706816; 439038, 3706816; 439203, 3706857; 439263, 3706896; 439336, 3706864; 439776, 3707199; 439744, 3707291; 439846, 3707335; 439862, 3707411; 439881, 3707446; 440036, 3707561; 440055, 3707608; 440093, 3707650; 440122, 3707669; 440440, 3707748; 440530, 3707810; 440697, 3707840; 440905, 3707927; 441006, 3707988; 441112, 3708087; 441606, 3708588; 441697, 3708520; 441649, 3708481; 441617, 3708427; 441513, 3708319; 441579, 3708243; 441373, 3708129; 441210, 3707990; returning to 441070, 3707874.

(iii) Land bounded by the following UTM coordinates (E, N): 447500, 3708409; 447500, 3708437; 447472, 3708437; 447472, 3708409; 447330, 3708409; 447330, 3708380; 447075, 3708380; 447075, 3708409; 446905, 3708409; 446905, 3708380; 446876, 3708380; 446876, 3708409; 446820, 3708409; 446820, 3708437; 446678, 3708437; 446678, 3708409; 446621, 3708409; 446621, 3708380; 446593, 3708380; 446593, 3708352; 446564, 3708352; 446564, 3708295; 446593, 3708295; 446593, 3708267; 446536, 3708267; 446536, 3708295; 446479, 3708295; 446479, 3708324; 446394, 3708324; 446394, 3708352; 446366, 3708352; 446366, 3708267; 446394, 3708267; 446394, 3708238; 446422, 3708238; 446422, 3708182; 446366, 3708182; 446366, 3708210; 446252, 3708210; 446252, 3708238; 446167, 3708238; 446167, 3708153; 446139, 3708153; 446139, 3708068; 446110, 3708068; 446110, 3707983; 446082, 3707983; 446082, 3707926; 446054, 3707926; 446054, 3708011; 446025, 3708011; 446025, 3708097; 446018, 3708097; 446002, 3708150; 445977, 3708203; 445942, 3708250; 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(vi) Land bounded by the following UTM coordinates (E, N): 447671, 3720125; 447642, 3720125; 447642, 3720153; 447671, 3720153; returning to 447671, 3720125;

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(viii) Subunit 10b: From USGS 1:24,000 quadrangle map Santiago Peak, land bounded by the following UTM coordinates (E, N): 443236, 3722799; 443231, 3722788; 443185, 3722746; 443127, 3722747; 443085, 3722768; 443067, 3722796; 443053, 3722858; 443052, 3722896; 443090, 3722896; 443099, 3722835; 443114, 3722806; 443117, 3722806; 443117, 3722805; 443120, 3722805; 443120, 3722806; 443131, 3722805; 443128, 3722802; 443128, 3722799; 443143, 3722793; 443173, 3722792; 443198, 3722813; 443198, 3722825; 443218, 3722844; 443223, 3722867; 443232, 3722876; 443233, 3722907; 443223, 3722918; 443223, 3722926; 443253, 3722926; 443253, 3722946; 443262, 3722956; 443283, 3722956; 443283, 3722986; 443313, 3722986; 443313, 3723036; 443322, 3723044; 443322, 3723046; 443343, 3723046; 443343, 3723076; 443368, 3723076; 443371, 3723067; 443339, 3723002; 443314, 3722980; 443311, 3722950; 443308, 3722945; 443274, 3722909; 443272, 3722871; 443258, 3722842; 443240, 3722823; returning to 443236, 3722799.

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(x) *Note:* Map of Unit 10 is provided at paragraph (13)(v) of this entry.

(16) Unit 11: San Mateo Basin, Orange, Riverside, and San Diego Counties, California.

(i) Subunit 11a: From USGS 1:24,000 quadrangle map San Clemente, land bounded by the following UTM coordinates (E, N): 449613, 3702046; 449583, 3702046; 449583, 3702076; 449613, 3702076; returning to 449613, 3702046.

(ii) Land bounded by the following UTM coordinates (E, N): 449613, 3702046; 449703, 3702046; 449703, 3702016; 449733, 3702016; 449733, 3702046; 449823, 3702046; 449823, 3702076; 449853, 3702076; 449853, 3702196; 449913, 3702196; 449913, 3702166; 450033, 3702166; 450033, 3702196; 450093, 3702196; 450093, 3702256; 450153, 3702256; 450153, 3702286; 450213, 3702286; 450213, 3702316; 450243, 3702316; 450243, 3702346; 450273, 3702346; 450273, 3702436; 450243, 3702436; 450243, 3702466; 450303, 3702466; 450303, 3702496; 450393, 3702496; 450393, 3702466; 450423, 3702466; 450423, 3702496; 450483, 3702496; 450483, 3702526; 450513, 3702526; 450513, 3702556; 450603, 3702556; 450603, 3702586; 450633, 3702586; 450633, 3702646; 450663, 3702646; 450663, 3702616; 450753, 3702616; 450753, 3702646; 450813, 3702646; 450813, 3702676; 450933, 3702676; 450933, 3702706; 450963, 3702706; 450963, 3702736; 451083, 3702736; 451083, 3702766; 451203, 3702766; 451203, 3702796; 451263, 3702796; 451263, 3702826; 451293, 3702826; 451293, 3702796; 451323, 3702796; 451323, 3702826; 451383, 3702826; 451383, 3702856; 451413, 3702856; 451413, 3702886; 451473, 3702886; 451473, 3702916; 451533, 3702916; 451533, 3702976; 451563, 3702976; 451563, 3703006; 451743, 3703006; 451743, 3703036; 451818, 3703036; 450584, 3702286; 450513, 3702286; 450513, 3702256; 450453, 3702256; 450453, 3702226; 450423, 3702226; 450423, 3702188; 449917, 3701885; 449865, 3701873; 448313, 3701517; 448318, 3701806; 448320, 3701805; 448504, 3701735; 448596, 3701741; 448628, 3701756; 448657, 3701771; 448701, 3701806; 448773, 3701806; 448773, 3701776; 448803, 3701776; 448803, 3701806; 448953, 3701806; 448953, 3701836; 448983, 3701836; 448983, 3701806; 449163, 3701806; 449163, 3701836; 449223, 3701836; 449223, 3701806; 449313, 3701806; 449313, 3701836; 449343, 3701836; 449343, 3701866; 449433, 3701866; 449433, 3701896; 449463, 3701896; 449463, 3701926; 449523, 3701926; 449523, 3701956; 449613, 3701956; returning to 449613, 3702046.

(iii) Land bounded by the following UTM coordinates (E, N): 452685, 3703768; 452686, 3703564; 451833, 3703045; 451833, 3703096; 451863, 3703096; 451863, 3703126; 451893, 3703126; 451893, 3703156; 451923, 3703156; 451923, 3703216; 451953, 3703216; 451953, 3703246; 451983, 3703246; 451983, 3703306; 452013, 3703306; 452013, 3703276; 452073, 3703276; 452073, 3703306; 452103, 3703306; 452103, 3703426; 452223, 3703426; 452223, 3703456; 452253, 3703456; 452253, 3703486; 452283, 3703486; 452283, 3703636; 452313, 3703636; 452313, 3703696; 452343, 3703696; 452343, 3703636; 452433, 3703636; 452433, 3703666; 452463, 3703666; 452463, 3703696; 452493, 3703696; 452493, 3703816; 452553, 3703816; 452553, 3703786; 452583, 3703786; 452583, 3703756; 452613, 3703756; 452613, 3703786; 452643, 3703786; 452643, 3703816; 452673, 3703816; 452673, 3703876; 452684, 3703876; returning to 452685, 3703768.

(iv) Land bounded by the following UTM coordinates (E, N): 451503, 3705316; 451503, 3705346; 451533, 3705346; 451533, 3705316; returning to 451503, 3705316.

(v) Land bounded by the following UTM coordinates (E, N): 451503, 3705316; 451503, 3705166; 451473, 3705166; 451473, 3705136; 451443, 3705136; 451443, 3705046; 451413, 3705046; 451413, 3705016; 451383, 3705016; 451383, 3704926; 451413, 3704926; 451413, 3704896; 451443, 3704896; 451443, 3704836; 451383, 3704836; 451383, 3704866; 451323, 3704866; 451323, 3704776; 451263, 3704776; 451263, 3704746; 451233, 3704746; 451233, 3704686; 451203, 3704686; 451203, 3704656; 451053, 3704656; 451053, 3704626; 450993, 3704626; 450993, 3704566; 450813, 3704566; 450813, 3704536; 450753, 3704536; 450753, 3704506; 450723, 3704506; 450723, 3704536; 450483, 3704536; 450483, 3704506; 450423, 3704506; 450423, 3704476; 450393, 3704476; 450393, 3704536; 450333, 3704536; 450333, 3704566; 450273, 3704566; 450273, 3704596; 450153, 3704596; 450153, 3704626; 450033, 3704626; 450033, 3704596; 450003, 3704596; 450003, 3704566; 449973, 3704566; 449973, 3704536; 449943, 3704536; 449943, 3704476; 449913, 3704476; 449913, 3704446; 449883, 3704446; 449883, 3704416; 449763, 3704416; 449763, 3704386; 449703, 3704386; 449703, 3704356; 449673, 3704356; 449673, 3704326; 449613, 3704326; 449613, 3704296; 449583, 3704296; 449583, 3704266; 449553, 3704266; 449553, 3704236; 449523, 3704236; 449523, 3704206; 449493, 3704206; 449493, 3704176; 449433, 3704176; 449433, 3704146; 449403, 3704146; 449403, 3704116; 449343, 3704116; 449343, 3704086; 449283, 3704086; 449283, 3704056; 449253, 3704056; 449253, 3704026; 449223, 3704026; 449223, 3703906; 449163, 3703906; 449163, 3703876; 449073, 3703876; 449073, 3703846; 449043, 3703846; 449043, 3703742; 449037, 3703740; 449021, 3703726; 448893, 3703726; 448893, 3703696; 448863, 3703696; 448863, 3703666; 448833, 3703666; 448833, 3703646; 448818, 3703644; 448808, 3703636; 448803, 3703636; 448803, 3703631; 448776, 3703606; 448743, 3703606; 448743, 3703580; 448738, 3703576; 448683, 3703576; 448683,

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(vi) Subunit 11b: From USGS 1:24,000 quadrangle map Margarita Peak, land bounded by the following UTM coordinates (E, N): 455883, 3703636; 455883, 3703606; 455943, 3703606; 455943, 3703592; 455790, 3703594; 455792, 3703606; 455853, 3703606; 455853, 3703636; returning to 455883, 3703636.

(vii) Land bounded by the following UTM coordinates (E, N): 467274, 3712323; 467274, 3712352; 467302, 3712352; 467302, 3712323; returning to 467274, 3712323;

(viii) Land bounded by the following UTM coordinates (E, N): 467274, 3712323; 467274, 3712267; 467245, 3712267; 467245, 3712238; 467217, 3712238; 467217, 3712210; 467188, 3712210; 467188, 3712182; 467160, 3712182; 467160, 3712153; 467132, 3712153; 467132, 3712096; 467160, 3712096; 467160, 3712068; 467188, 3712068; 467188, 3712040; 467217, 3712040; 467217, 3711983; 467245, 3711983; 467245, 3711926; 467274, 3711926; 467274, 3711898; 467188, 3711898; 467188, 3711926; 467160, 3711926; 467160, 3711955; 467047, 3711955; 467047, 3711926; 467018, 3711926; 467018, 3711898; 466990, 3711898; 466990, 3711870; 466961, 3711870; 466961, 3711841; 466848, 3711841; 466848, 3711870; 466706, 3711870; 466706, 3711813; 466678, 3711813; 466678, 3711756; 466564, 3711756; 466564, 3711784; 466536, 3711784; 466536, 3711813; 466508, 3711813; 466508, 3711841; 466479, 3711841; 466479, 3711870; 466196, 3711870; 466196, 3711898; 466082, 3711898; 466082, 3711870; 466025, 3711870; 466025, 3711841; 465969, 3711841; 465969, 3711870; 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(ix) *Note:* Map of Unit 11 is provided at paragraph (13)(v) of this entry.

(17) Unit 12: Lower Santa Margarita Basin, San Diego County, California.

(i) Subunit 12a: From USGS 1:24,000 quadrangle maps Fallbrook and Temecula, land bounded by the following UTM coordinates (E, N): 470019, 3696496; 470013, 3696496; 470013, 3696526; 470019, 3696526; returning to 470019, 3696496.

(ii) Land bounded by the following UTM coordinates (E, N): 470024, 3696976; 470020, 3696616; 470013, 3696616; 470013, 3696646; 469983, 3696646; 469983, 3696856; 470013, 3696856; 470013, 3696976; returning to 470024, 3696976.

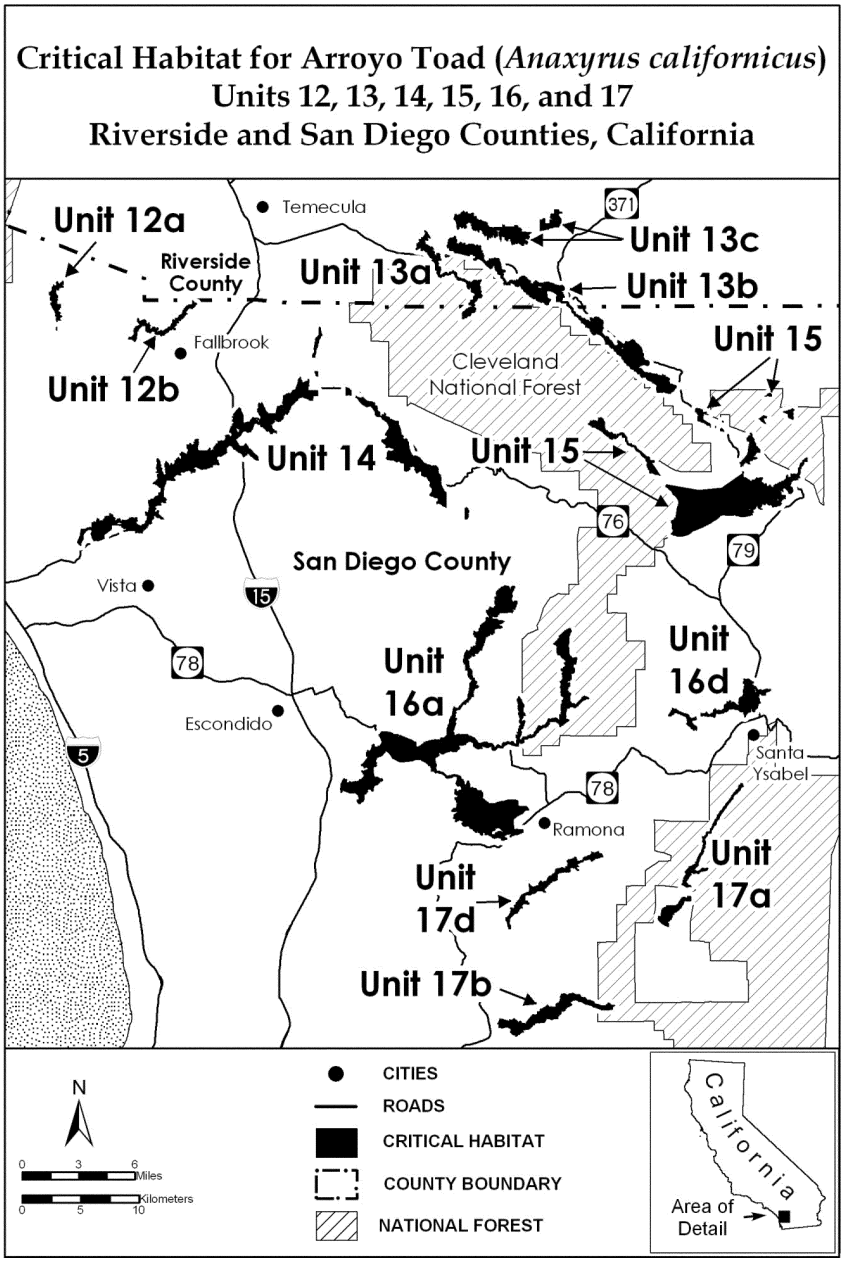
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(iv) Subunit 12b: From USGS 1:24,000 quadrangle maps Fallbrook and Temecula, land bounded by the following UTM coordinates (E, N): 481713, 3699166; 481713, 3699136; 481743, 3699136; 481743, 3699106; 481773, 3699106; 481773, 3699046; 481803, 3699046; 481803, 3698986; 481833, 3698986; 481833, 3698956; 481983, 3698956; 481983, 3698926; 482043, 3698926; 482043, 3698896; 481983, 3698896; 481983, 3698866; 481953, 3698866; 481953, 3698836; 481923, 3698836; 481923, 3698806; 481893, 3698806; 481893, 3698716; 481863, 3698716; 481863, 3698686; 481833, 3698686; 481833, 3698656; 481803, 3698656; 481803, 3698626; 481773, 3698626; 481773, 3698596; 481743, 3698596; 481743, 3698566; 481683, 3698566; 481683, 3698536; 481653, 3698536; 481653, 3698506; 481518, 3698506; 481519, 3698558; 481476, 3698579; 481418, 3698570; 481299, 3698509; 481259, 3698468; 481232, 3698394; 481172, 3698298; 481108, 3698204; 481085, 3698135; 481233, 3698076; 481233, 3698056; 481173, 3698056; 481173, 3698026; 481083, 3698026; 481083, 3697996; 481053, 3697996; 481053, 3697936; 480993, 3697936; 480993, 3697876; 480963, 3697876; 480963, 3697816; 480933, 3697816; 480933, 3697786; 480903, 3697786; 480903, 3697756; 480873, 3697756; 480873, 3697726; 480843, 3697726; 480843, 3697666; 480783, 3697666; 480783, 3697636; 480753, 3697636; 480753, 3697606; 480693, 3697606; 480693, 3697576; 480663, 3697576; 480663, 3697546; 480633, 3697546; 480633, 3697456; 480543, 3697456; 480543, 3697486; 480483, 3697486; 480483, 3697456; 480453, 3697456; 480453, 3697336; 480483, 3697336; 480483, 3697306; 480453, 3697306; 480453, 3697276; 480393, 3697276; 480393, 3697246; 480363, 3697246; 480363, 3697276; 480303, 3697276; 480303, 3697246; 480273, 3697246; 480273, 3697186; 480243, 3697186; 480243, 3697156; 480273, 3697156; 480273, 3697066; 480213, 3697066; 480213, 3697036; 480183, 3697036; 480183, 3697006; 480153, 3697006; 480153, 3696976; 480123, 3696976; 480123, 3696946; 480093, 3696946; 480093, 3696916; 480063, 3696916; 480063, 3696886; 480093, 3696886; 480093, 3696856; 480123, 3696856; 480123, 3696796; 480153, 3696796; 480153, 3696766; 480213, 3696766; 480213, 3696736; 480183, 3696736; 480183, 3696706; 480153, 3696706; 480153, 3696676; 480093, 3696676; 480093, 3696706; 480063, 3696706; 480063,

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(v) *Note:* Map of Units 12, 13, 14, 15, 16, and 17 follows.



(18) Unit 13: Upper Santa Margarita Basin, Riverside and San Diego Counties, California.

(i) Subunit 13a: from USGS 1:24,000 quadrangle map Vail Lake, land bounded by the following UTM coordinates (E, N): 505506, 3698564; 505506, 3698534; 505536, 3698534; 505536,

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(ii) Subunit 13b: From USGS 1:24,000 quadrangle maps Vail Lake, Aguanga, and Palomar Observatory, land bounded by the following UTM coordinates (E, N): 520626, 3692624; 520656, 3692624; 520656, 3692654; 520626, 3692654; 520626, 3692624; 520596, 3692624; 520596, 3692594; 520476, 3692594; 520476, 3692624; 520356, 3692624; 520356, 3692594; 520326, 3692594; 520326, 3692564; 520266, 3692564; 520266, 3692594; 520206, 3692594; 520206, 3692654; 520176, 3692654; 520176, 3692684; 520146, 3692684; 520146, 3692744; 520116, 3692744; 520116, 3692864; 519936, 3692864; 519936, 3692894; 519906, 3692894; 519906, 3692924; 519876, 3692924; 519876, 3692984; 519846, 3692984; 519846, 3693014; 519816, 3693014; 519816, 3693044; 519786, 3693044; 519786, 3693074; 519756, 3693074; 519756, 3693104; 519726, 3693104; 519726, 3693134; 519606, 3693134; 519606, 3693164; 519576, 3693164; 519576, 3693224; 519546, 3693224; 519546, 3693284; 519456, 3693284; 519456, 3693314; 519336, 3693314; 519336, 3693344; 519306, 3693344; 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(iii) Subunit 13c: From USGS 1:24,000 quadrangle maps Vail Lake, Sage, Cahuilla Mtn., and Aguanga, land bounded by the following UTM coordinates (E, N): 508295, 3705827; 508285, 3705827; 508285, 3705874; 508289, 3705912; 508352, 3705912; 508352, 3705827; returning to 508295, 3705827.

(iv) Land bounded by the following UTM coordinates (E, N): 506990, 3704380; 506962, 3704380; 506962, 3704408; 506990, 3704408; returning to 506990, 3704380.

(v) Land bounded by the following UTM coordinates (E, N): 505004, 3706809; 505004, 3706791; 505033, 3706791; 505033, 3706735; 505203, 3706735; 505203, 3706763; 505260, 3706763; 505260, 3706678; 505231, 3706678; 505231, 3706649; 505260, 3706649; 505260, 3706621; 505373, 3706621; 505373, 3706649; 505401, 3706649; 505401, 3706621; 505628, 3706621; 505628, 3706649; 505714, 3706649; 505714, 3706678; 505770, 3706678; 505770, 3706593; 505742, 3706593; 505742, 3706564; 505770, 3706564; 505770, 3706451; 505799, 3706451; 505799, 3706423; 505855, 3706423; 505855, 3706394; 505997, 3706394; 505997, 3706423; 506026, 3706423; 506026, 3706252; 506054, 3706252; 506054, 3706224; 506082, 3706224; 506082, 3706139; 506224, 3706139; 506224, 3706110; 506253, 3706110; 506253, 3706082; 506281, 3706082; 506281, 3705940; 506309, 3705940; 506309, 3706025; 506338, 3706025; 506338, 3706054; 506394, 3706054; 506394, 3706082; 506451, 3706082; 506451, 3706054; 506479, 3706054; 506479, 3705997; 506536, 3705997; 506536, 3705969; 506678, 3705969; 506678, 3705940; 506877, 3705940; 506877, 3705855; 506905, 3705855; 506905, 3705827; 506933, 3705827; 506933, 3705855; 506990, 3705855; 506990, 3705827; 506962, 3705827; 506962, 3705742; 506990, 3705742; 506990, 3705657; 507018, 3705657; 507018, 3705600; 507047, 3705600; 507047, 3705571; 507081, 3705571; 507080, 3705462; 507387, 3705460; 507387, 3705458; 507416, 3705458; 507416,

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(vi) Land bounded by the following UTM coordinates (E, N): 512834, 3706987; 512834, 3706962; 512891, 3706962; 512891, 3706980; 513089, 3706957; 513089, 3706933; 513061, 3706933; 513061, 3706820; 513089, 3706820; 513089, 3706848; 513146, 3706848; 513146, 3706791; 513203, 3706791; 513203, 3706763; 513288, 3706763; 513288, 3706791; 513345, 3706791; 513345, 3706763; 513373, 3706763; 513373, 3706706; 513345, 3706706; 513345, 3706678; 513146, 3706678; 513146, 3706649; 513089, 3706649; 513089, 3706621; 513061, 3706621; 513061, 3706479; 513089, 3706479; 513089, 3706423; 513146, 3706423; 513146, 3706394; 513175, 3706394; 513175, 3706337; 513203, 3706337; 513203, 3706281; 513231, 3706281; 513231, 3706252; 513260, 3706252; 513260, 3706224; 513288, 3706224; 513288, 3706196; 513316, 3706196; 513316, 3706054; 513288, 3706054; 513288, 3705912; 513260, 3705912; 513260, 3705827; 513231, 3705827; 513231, 3705770; 513203, 3705770; 513203, 3705657; 513175, 3705657; 513175, 3705628; 513146, 3705628; 513146, 3705600; 513118, 3705600; 513118, 3705543; 513089, 3705543; 513089, 3705515; 512862, 3705515; 512862, 3705486; 512636, 3705486; 512636, 3705458; 512579, 3705458; 512579, 3705430; 512323, 3705430; 512323, 3705401; 512295, 3705401; 512295, 3705373; 512238, 3705373; 512238, 3705316; 512210, 3705316; 512210, 3705288; 511955, 3705288; 511955, 3705259; 511813, 3705259; 511813, 3705231; 511671, 3705231; 511671, 3705203; 511586, 3705203; 511586, 3705174; 511535, 3705174; 511525, 3706082; 511699, 3706082; 511699, 3706110; 511728, 3706110; 511728, 3706139; 511756, 3706139; 511756, 3706167; 511784, 3706167; 511784, 3706196; 511813, 3706196; 511813, 3706224; 511898, 3706224; 511898, 3706196; 511911, 3706196; 511916, 3705800; 512341, 3705773; 512337, 3706082; 512522, 3706082; 512522, 3706110; 512579, 3706110; 512579, 3706139; 512550, 3706139; 512550, 3706196; 512437, 3706196; 512437, 3706309; 512409, 3706309; 512409, 3706366; 512437, 3706366; 512437, 3706564; 512465, 3706564; 512465, 3706630; 512761, 3706595; 512751, 3706990; 512808, 3706990; returning to 512834, 3706987.

(vii) *Note:* Map of Unit 13 is provided at paragraph (17)(v) of this entry.

(19) Unit 14: Lower and Middle San Luis Rey Basin, San Diego County, California.

(i) From USGS 1:24,000 quadrangle maps Pechanga, San Luis Rey, Morro Hill, Bonsall, Pala, and Boucher Hill, land bounded by the following UTM coordinates (E, N): 505206, 3681404; 505206, 3681374; 505266, 3681374; 505266, 3681344; 505326, 3681344; 505326, 3681224; 505356, 3681224; 505356, 3681164; 505386, 3681164; 505386, 3681014; 505356, 3681014; 505356, 3680984; 505326, 3680984; 505326, 3680864; 505356, 3680864; 505356, 3680744; 505326, 3680744; 505326, 3680654; 505356, 3680654; 505356, 3680624; 505326, 3680624; 505326, 3680594; 505296, 3680594; 505296, 3680564; 505266, 3680564; 505266, 3680474; 505236, 3680474; 505236, 3680429; 505066, 3680430; 505061, 3680430; 505061, 3680553; 505061, 3680603; 505061, 3680603; 505061, 3680604; 505061, 3680604; 505061, 3680604; 505061, 3680605; 505061, 3680605; 505061, 3680605; 505061, 3680606; 505061, 3680606; 505061, 3680606; 505061, 3680606; 505062, 3680607; 505062, 3680607; 505062, 3680607; 505062, 3680607; 505062, 3680608; 505062, 3680608; 505062, 3680608; 505062, 3680608; 505062, 3680609; 505062, 3680609; 505062, 3680609; 505062, 3680609; 505062, 3680610; 505062, 3680610; 505062, 3680610; 505062, 3680610; 505062, 3680610; 505062, 3680611; 505062, 3680611; 505062, 3680611; 505062, 3680612; 505062, 3680612; 505062, 3680612; 505062, 3680612; 505062, 3680612; 505062, 3680612; 505062, 3680613; 505062, 3680613; 505062, 3680613; 505062, 3680614; 505062, 3680614; 505062, 3680614; 505062, 3680614; 505062, 3680615; 505062, 3680615; 505062, 3680616; 505062, 3680616; 505062, 3680617; 505062, 3680617; 505062, 3680617; 505062, 3680617; 505062, 3680617; 505062, 3680617; 505062, 3680618; 505062, 3680618; 505062, 3680619; 505062, 3680620; 505062, 3680620; 505062, 3680621; 505062, 3680621; 505062, 3680622; 505062, 3680622; 505062, 3680623; 505062, 3680623; 505062, 3680623; 505061, 3680624; 505061, 3680624; 505061, 3680625; 505061, 3680625; 505061, 3680625; 505061, 3680625; 505065, 3680625; 505065, 3680726; 505066, 3680827; 505066, 3680927; 505066, 3681113; 505066, 3681123; 505066, 3681123; 505066, 3681232; 505066, 3681273; 505066, 3681344; 505146, 3681344; 505146, 3681374; 505176, 3681374; 505176, 3681404; returning to 505206, 3681404.

(ii) Land bounded by the following UTM coordinates (E, N): 496083, 3690984; 496081, 3690778; 496186, 3690777; 496188, 3690982; 496083, 3690984; 496085, 3691184; 496086, 3691184; 496086, 3691124; 496116, 3691124; 496116, 3691094; 496146, 3691094; 496146, 3691034; 496176, 3691034; 496176, 3691004; 496236, 3691004; 496236, 3690944; 496266, 3690944; 496266, 3690884; 496296, 3690884; 496296, 3690854; 496326, 3690854; 496326, 3690824; 496356, 3690824; 496356, 3690794; 496386, 3690794; 496386, 3690764; 496416, 3690764; 496416, 3690734; 496446, 3690734; 496446, 3690704; 496476, 3690704; 496476, 3690674; 496506, 3690674; 496506, 3690644; 496536,

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(vi) Land bounded by the following UTM coordinates (E, N): 492402, 3693080; 492402, 3693012; 492400, 3692673; 492366, 3692673; 492366, 3692714; 492336, 3692714; 492336, 3692744; 492276, 3692744; 492276, 3692774; 492246, 3692774; 492246, 3692924; 492216, 3692924; 492216, 3692984; 492186, 3692984; 492186, 3693074; 492156, 3693074; 492156, 3693085; 492366, 3693082; 492402, 3693082; returning to 492402, 3693080.

(vii) Land bounded by the following UTM coordinates (E, N): 492606, 3696884; 492606, 3696854; 492636, 3696854; 492636, 3696794; 492666, 3696794; 492666, 3696584; 492696, 3696584; 492696, 3696404; 492726, 3696404; 492726, 3696314; 492756, 3696314; 492756, 3696284; 492786, 3696284; 492786, 3696194; 492726, 3696194; 492726, 3696164; 492696, 3696164; 492696, 3696134; 492666, 3696134; 492666, 3696104; 492636, 3696104; 492636, 3696074; 492606, 3696074; 492606, 3696014; 492636, 3696014; 492636, 3695984; 492606, 3695984; 492606, 3695954; 492576, 3695954; 492576, 3695924; 492546, 3695924; 492546, 3695864; 492516, 3695864; 492516, 3695804; 492486, 3695804; 492486, 3695564; 492456, 3695564; 492456, 3695504; 492426, 3695504; 492426, 3695444; 492396, 3695444; 492396, 3695384; 492426, 3695384; 492426, 3695354; 492396, 3695354; 492396, 3695264; 492366, 3695264; 492366, 3695144; 492336, 3695144; 492336, 3695114; 492306, 3695114; 492306, 3695054; 492276, 3695054; 492276, 3694994; 492246, 3694994; 492246, 3694664; 492216, 3694664; 492216, 3694574; 492186, 3694574; 492186, 3694514; 492156, 3694514; 492156, 3694334; 492126, 3694334; 492126, 3694317; 492019, 3694320; 491976, 3694320; 491976, 3694514; 492006, 3694514; 492006, 3694574; 492036, 3694574; 492036, 3694604; 492066, 3694604; 492066, 3694664; 492096, 3694664; 492096, 3694694; 492126, 3694694; 492126, 3694994; 492096, 3694994; 492096, 3695114; 492126,

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(viii) *Note:* Map of Unit 14 is provided at paragraph (17)(iii) of this entry.

(20) Unit 15: Upper San Luis Rey Basin, San Diego County, California.

(i) From USGS 1:24,000 quadrangle maps Palomar Observatory, and Warner Springs, land bounded by the following UTM coordinates (E, N): 529742, 3680834; 529742, 3680862; 529770, 3680862; 529770, 3680834; returning to 529742, 3680834.

(ii) Land bounded by the following UTM coordinates (E, N): 533799, 3683983;533827, 3683983; 533827, 3683954; 533799, 3683954; 533799, 3683983; thence from land bounded by the following UTM coordinates (E, N): 521912, 3684068; 522111, 3683784; 522082, 3683784; 522082, 3683813; 522054, 3683813; 522054, 3683841; 522026, 3683841; 522026, 3683898; 521997, 3683898; 521997, 3683926; 521969, 3683926; 521969, 3683983; 521941, 3683983; 521941, 3684011; 521912, 3684011; returning to 521912, 3684068; thence from land bounded by the following UTM coordinates (E, N): 521912, 3684068; 521884, 3684068; 521884, 3684096; 521855, 3684096; 521855, 3684149; returning to 521912, 3684068; thence from land bounded by the following UTM coordinates (E, N): 528806, 3684664; 528806, 3684644; 528796, 3684664; returning to 528806, 3684664; thence from land bounded by the following UTM coordinates (E, N): 533799, 3683983; 533685, 3683983; 533685, 3683954; 533657, 3683954; 533657, 3683926; 533600, 3683926; 533600, 3683869; 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Excluding land bounded by 532125, 3682422; 532125, 3682394; 532097, 3682394; 532097, 3682309; 532182, 3682309; 532182, 3682337; 532210, 3682337; 532210, 3682422; returning to 532125, 3682422. Excluding land bounded by 531841, 3682082; 531841, 3682025; 531898, 3682025; 531898, 3681997; 531983, 3681997; 531983, 3682025; 532012, 3682025; 532012, 3682054; 532040, 3682054; 532040, 3682110; 532012, 3682110; 532012, 3682139; 531983, 3682139; 531983, 3682167; 531870, 3682167; 531870, 3682139; 531841, 3682139; returning to 531841, 3682082. Excluding land bounded by 527728, 3680947; 527728, 3680919; 527785, 3680919; 527785, 3680947; returning to 527728, 3680947.

(iii) Land bounded by the following UTM coordinates (E, N): 529657, 3687727; 529657, 3687699; 529685, 3687699; 529685, 3687501; 529714, 3687501; 529714, 3687472; 529742, 3687472; 529742, 3687415; 529770, 3687415; 529770, 3687387; 529827, 3687387; 529827, 3687330; 529856, 3687330; 529856, 3687274; 529884, 3687274; 529884, 3687245; 529856, 3687245; 529856, 3687188; 529827, 3687188; 529827, 3687160; 529856, 3687160; 529856, 3687103; 529884, 3687103; 529884, 3687018; 529912, 3687018; 529912, 3686990; 529969, 3686990; 529969, 3686962; 529997, 3686962; 529997, 3686933; 530026, 3686933; 530026, 3686735; 530054, 3686735; 530054, 3686678; 530111, 3686678; 530111, 3686649; 530139, 3686649; 530139,

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(iv) Land bounded by the following UTM coordinates (E, N): 527100, 3688218; 527189, 3688133; 527274, 3688045; 527260, 3687961; 527240, 3687969; 527188, 3687979; 527132, 3687990; 527094, 3688001; 527049, 3688024; 526996, 3688057; 526979, 3688074; 526981, 3688142; 527035, 3688139; returning to 527100, 3688218.

(v) Land bounded by the following UTM coordinates (E, N): 527302, 3688720; 527302, 3688715; 527295, 3688720; returning to 527302, 3688720.

(vi) Land bounded by the following UTM coordinates (E, N): 527274, 3688749; 527274, 3688735; 527254, 3688749; returning to 527274, 3688749.

(vii) Land bounded by the following UTM coordinates (E, N): 527217, 3688806; 527217, 3688777; 527246, 3688777; 527246, 3688754; 527171, 3688806; returning to 527217, 3688806.

(viii) Land bounded by the following UTM coordinates (E, N): 516777, 3689146; 516777, 3689118; 516806, 3689118; 516806, 3689032; 516834, 3689032; 516834, 3689061; 516891, 3689061; 516891, 3689032; 516919, 3689032; 516919, 3688976; 516948, 3688976; 516948, 3688919; 516976, 3688919; 516976, 3688891; 516948, 3688891; 516948, 3688834; 516976, 3688834; 516976, 3688806; 517004, 3688806; 517004, 3688777; 517033, 3688777; 517033, 3688749; 517061, 3688749; 517061, 3688579; 517033, 3688579; 517033, 3688550; 516948, 3688550; 516948, 3688522; 516976, 3688522; 516976, 3688493; 517004, 3688493; 517004, 3688465; 517033, 3688465; 517033, 3688408; 517004, 3688408; 517004, 3688380; 517033, 3688380; 517033, 3688238; 517004, 3688238; 517004, 3688210; 517089, 3688210; 517089, 3688096; 517118, 3688096; 517118, 3688040; 517175, 3688040; 517175, 3688011; 517288, 3688011; 517288, 3687954; 517345, 3687954; 517345, 3687926; 517373, 3687926; 517373, 3687898; 517402, 3687898; 517402, 3687869; 517430, 3687869; 517430, 3687841; 517600, 3687841; 517600, 3687869; 517685, 3687869; 517685, 3687841; 517714, 3687841; 517714, 3687784; 517742, 3687784; 517742, 3687727; 517770, 3687727; 517770, 3687699; 517827, 3687699; 517827, 3687671; 517884, 3687671; 517884, 3687699; 517912, 3687699; 517912, 3687727; 517969, 3687727; 517969, 3687699; 517997, 3687699; 517997, 3687614; 517969, 3687614; 517969, 3687557; 517941, 3687557; 517941, 3687501; 517969, 3687501; 517969, 3687529; 517997, 3687529; 517997, 3687557; 518026, 3687557; 518026, 3687529; 518054, 3687529; 518054, 3687557; 518082, 3687557; 518082, 3687586; 518111, 3687586; 518111, 3687642; 518139, 3687642; 518139, 3687699; 518168, 3687699; 518168, 3687727; 518338, 3687727; 518338, 3687756; 518366, 3687756; 518366, 3687784; 518451, 3687784; 518451, 3687813; 518650, 3687813; 518650, 3687784; 518707, 3687784; 518707, 3687614; 518735, 3687614; 518735, 3687642; 518763, 3687642; 518763, 3687671; 518792, 3687671; 518792, 3687614; 518820, 3687614; 518820, 3687557; 518848, 3687557; 518848, 3687529; 518877, 3687529; 518877, 3687501; 518933, 3687501; 518933, 3687472; 518962, 3687472; 518962, 3687188; 518990, 3687188; 518990, 3687132; 519019, 3687132; 519019, 3687047; 519047, 3687047; 519047, 3686990; 519075, 3686990; 519075, 3686933; 519104, 3686933; 519104, 3686905; 519160, 3686905; 519160,

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(ix) Land bounded by the following UTM coordinates (E, N): 530905, 3689118; 530905, 3689089; 530763, 3689089; 530763, 3689118; 530735, 3689118; 530735, 3689089; 530707, 3689089; 530707, 3688891; 530735, 3688891; 530735, 3688834; 530763, 3688834; 530763, 3688806; 530792, 3688806; 530792, 3688749; 530820, 3688749; 530820, 3688720; 530848, 3688720; 530848, 3688692; 530877, 3688692; 530877, 3688635; 530820, 3688635; 530820, 3688664; 530792, 3688664; 530792, 3688692; 530763, 3688692; 530763, 3688720; 530707, 3688720; 530707, 3688749; 530678, 3688749; 530678, 3688777; 530593, 3688777; 530593, 3688806; 530508, 3688806; 530508, 3688862; 530480, 3688862; 530480, 3688891; 530451, 3688891; 530451, 3688947; 530423, 3688947; 530423, 3688976; 530366, 3688976; 530366, 3689004; 530312, 3689004; 530717, 3689283; 530990, 3689238; 530990, 3689231; 530962, 3689231; 530962, 3689203; 530934, 3689203; 530934, 3689118; returning to 530905, 3689118.

(x) Land bounded by the following UTM coordinates (E, N): 533203, 3689884; 533203, 3689855; 533288, 3689855; 533288, 3689827; 533317, 3689827; 533317, 3689798; 533288, 3689798; 533288, 3689770; 533231, 3689770; 533231, 3689713; 533203, 3689713; 533203, 3689515; 533231, 3689515; 533231, 3689430; 533203, 3689430; 533203, 3689231; 533231, 3689231; 533231, 3689032; 533203, 3689032; 533203, 3688982; 533200, 3688985; 533115, 3689037; 533039, 3689061; 532931, 3689099; 532888, 3689136; 532855, 3689184; 532827, 3689250; 532827, 3689325; 532808, 3689382; 532789, 3689448; 532742, 3689486; 532624, 3689542; 532553, 3689566; 532506, 3689575; 532440, 3689613; 532416, 3689628; 532465, 3689628; 532465, 3689657; 532636, 3689657; 532636, 3689685; 532749, 3689685; 532749, 3689657; 532834, 3689657; 532834, 3689685; 532806, 3689685; 532806, 3689742; 532834, 3689742; 532834, 3689770; 532863, 3689770; 532863, 3689798; 533033, 3689798; 533033, 3689827; 533118, 3689827; 533118, 3689855; 533175, 3689855; 533175, 3689884; returning to 533203, 3689884.

(xi) Land bounded by the following UTM coordinates (E, N): 525004, 3689940; 525004, 3689912; 525061, 3689912; 525061, 3689884; 525175, 3689884; 525175, 3689912; 525231, 3689912; 525231, 3689855; 525288, 3689855; 525288, 3689827; 525430, 3689827; 525430, 3689657; 525458, 3689657; 525458, 3689628; 525487, 3689628; 525487, 3689600; 525770, 3689600; 525770, 3689628; 525790, 3689628; 525775, 3689579; 525757, 3689503; 525768, 3689445; 525945, 3689372; 525854, 3689406; 525765, 3689436; 525641, 3689482; 525630, 3689473; 525526, 3689521; 525524, 3689317; 525483, 3689320; 525478, 3688981; 525862, 3688727; 526129, 3688570; 526141, 3688573; 526141, 3688571; 526139, 3688295; 526139, 3688295; 526139, 3688352; 526111, 3688352; 526111, 3688408; 526082, 3688408; 526082, 3688465; 525997, 3688465; 525997, 3688493; 525912, 3688493; 525912, 3688465; 525884, 3688465; 525884, 3688493; 525856, 3688493; 525856, 3688522; 525827, 3688522; 525827, 3688550; 525799, 3688550; 525799, 3688579; 525770, 3688579; 525770, 3688607; 525714, 3688607; 525714, 3688635; 525657, 3688635; 525657, 3688664; 525629, 3688664; 525629, 3688692; 525515, 3688692; 525515, 3688720; 525487, 3688720; 525487, 3688749; 525458, 3688749; 525458, 3688777; 525430, 3688777; 525430, 3688749; 525345, 3688749; 525345, 3688777; 525316, 3688777; 525316, 3688806; 525146, 3688806; 525146, 3688834; 525118, 3688834; 525118, 3688862; 525061, 3688862; 525061, 3688919; 525033, 3688919; 525033, 3689004; 525061, 3689004; 525061, 3689061; 525090, 3689061; 525090, 3689118; 525061, 3689118; 525061, 3689174; 525033, 3689174; 525033, 3689203; 525118, 3689203; 525118, 3689231; 525175, 3689231; 525175, 3689259; 525146, 3689259; 525146, 3689288; 525118, 3689288; 525118, 3689345; 525090, 3689345; 525090, 3689401; 525061, 3689401; 525061, 3689458; 525033, 3689458; 525033, 3689486; 524976, 3689486; 524976, 3689515; 524948, 3689515; 524948, 3689543; 524976, 3689543; 524976, 3689571; 525004, 3689571; 525004, 3689628; 524834, 3689628; 524834, 3689685; 524863, 3689685; 524863, 3689713; 524834, 3689713; 524834, 3689742; 524863, 3689742; 524863, 3689827; 524891, 3689827; 524891, 3689912; 524976, 3689912; 524976, 3689940; returning to 525004, 3689940.

(xii) Land bounded by the following UTM coordinates (E, N): 530792, 3691018; 530792, 3691011; 530791, 3691012; 530786, 3691018; returning to 530792, 3691018.

(xiii) Land bounded by the following UTM coordinates (E, N): 531331, 3691160; 531331, 3691132; 531359, 3691132; 531359, 3691075; 531387, 3691075; 531387, 3690990; 531359, 3690990; 531359, 3690961; 531317, 3690970; 531271, 3690976; 531225, 3690973; 531199, 3690980; 531176, 3691003; 531130, 3691019; 531110, 3691026; 531080, 3691022; 531064, 3691016; 531047, 3691013; 531039, 3691012; 531039, 3691013; 531029, 3691029; 531007, 3691022; 530983, 3691008; 530962, 3690999; 530941, 3690991; 530908, 3690976; 530874, 3690968; 530847, 3690968; 530818, 3690981; 530810, 3690990; 530934, 3690990; 530934, 3691018; 530962, 3691018; 530962, 3691047; 531019, 3691047; 531019, 3691075; 531047, 3691075; 531047, 3691132; 531075, 3691132; 531075, 3691160; 531132, 3691160; 531132, 3691189; 531189, 3691189; 531189, 3691217; 531331, 3691217; returning to 531331, 3691160.

(xiv) *Note:* Map of Unit 15 is provided at paragraph (17)(v) of this entry.

(21) Unit 16: Santa Ysabel Creek, San Diego County, California.

(i) Subunit 16a: From USGS 1:24,000 quadrangle maps Rodriquez Mtn., Mesa Grande, Ramona, San Pasqual, and Escondido. Land bounded by the following UTM coordinates (E, N): 508579, 3674706; 508579, 3674678; 508607, 3674678; 508607, 3674649; 508692, 3674649; 508692, 3674621; 508721, 3674621; 508721, 3674649; 508806, 3674649; 508806, 3674621; 508834, 3674621; 508834, 3674593; 508862, 3674593; 508862, 3674536; 508891, 3674536; 508891, 3674451; 508919, 3674451; 508919, 3674366; 508976, 3674366; 508976, 3674337; 509004, 3674337; 509004, 3674394; 509033, 3674394; 509033, 3674422; 509061, 3674422; 509061, 3674479; 509033, 3674479; 509033, 3674508; 509004, 3674508; 509004, 3674536; 509033, 3674536; 509033, 3674593; 509089, 3674593; 509089, 3674621; 509146, 3674621; 509146, 3674649; 509175, 3674649; 509203, 3674649; 509203, 3674621; 509231, 3674621; 509231, 3674649; 509316, 3674649; 509316, 3674593; 509345, 3674593; 509345, 3674564; 509316, 3674564; 509316, 3674508; 509288,

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(ii) Subunit 16d: From USGS 1:24,000 quadrangle maps Warners Ranch, Santa Ysabel, and Ramona. Land bounded by the following UTM coordinates (E, N): 522905, 3664181; 522905, 3664153; 522962, 3664153; 522962, 3664124; 522990, 3664124; 522990, 3664096; 523217, 3664096; 523217, 3664068; 523274, 3664068; 523274, 3664039; 523302, 3664039; 523302, 3664011; 523359, 3664011; 523359, 3663954; 523387, 3663954; 523387, 3663926; 523416, 3663926; 523416, 3663898; 523444, 3663898; 523444, 3663869; 523614, 3663869; 523614, 3663841; 523671, 3663841; 523671, 3663812; 523699, 3663812; 523699, 3663784; 523756, 3663784; 523756, 3663756; 523841, 3663756; 523841, 3663727; 524012, 3663727; 524012, 3663699; 524068, 3663699; 524068, 3663671; 524153, 3663671; 524153, 3663642; 524238, 3663642; 524238, 3663614; 524256, 3663614; 524256, 3663584; 524286, 3663584; 524286, 3663494; 524316, 3663494; 524316, 3663464; 524346, 3663464; 524346, 3663434; 524376, 3663434; 524376, 3663374; 524406, 3663374; 524406, 3663344; 524436, 3663344; 524436, 3663314; 524526, 3663314; 524526, 3663284; 524556, 3663284; 524556, 3663314; 524706, 3663314; 524706, 3663344; 524796, 3663344; 524796, 3663374; 524826, 3663374; 524826, 3663404; 524856, 3663404; 524856, 3663421; 524948, 3663421; 524950, 3663314; 524946, 3663314; 524946, 3663284; 524916, 3663284; 524916, 3663254; 524886, 3663254; 524886, 3663194; 524826, 3663194; 524826, 3663164; 524676, 3663164; 524676, 3663194; 524616, 3663194; 524616, 3663164; 524586, 3663164; 524586, 3663074; 524526, 3663074; 524526, 3663044; 524466, 3663044; 524466, 3663014; 524496, 3663014; 524496, 3662984; 524526, 3662984; 524526, 3662954; 524586, 3662954; 524586, 3662924; 524616, 3662924; 524616, 3662834; 524646, 3662834; 524646, 3662804; 524676, 3662804; 524676, 3662774; 524706, 3662774; 524706, 3662744; 524736, 3662744; 524736, 3662714; 524796, 3662714; 524796, 3662684; 524856, 3662684; 524856, 3662624; 524916, 3662624; 524916, 3662594; 524946, 3662594; 524946, 3662564; 524976, 3662564; 524976, 3662534; 524946, 3662534; 524946, 3662504; 524976, 3662504; 524976, 3662384; 524946, 3662384; 524946, 3662294; 524916, 3662294; 524916, 3662324; 524886, 3662324; 524886, 3662354; 524826, 3662354; 524826, 3662384; 524766, 3662384; 524766, 3662354; 524736, 3662354; 524736, 3662294; 524676, 3662294; 524676, 3662354; 524646, 3662354; 524646, 3662384; 524616, 3662384; 524616, 3662414; 524586, 3662414; 524586, 3662444; 524496, 3662444; 524496, 3662474; 524466, 3662474; 524466, 3662564; 524436, 3662564; 524436, 3662594; 524376, 3662594; 524376, 3662624; 524316, 3662624; 524316, 3662654; 524286, 3662654; 524286, 3662684; 524256, 3662684; 524256, 3662714; 524196, 3662714; 524196, 3662744; 524166, 3662744; 524166, 3662804; 524136, 3662804; 524136, 3662834; 524106, 3662834; 524106, 3662894; 524136, 3662894; 524136, 3662924; 524166, 3662924; 524166, 3662984; 524196, 3662984; 524196, 3663014; 524166, 3663014; 524166, 3663104; 524136, 3663104; 524136, 3663314; 524106, 3663314; 524106, 3663374; 524076, 3663374; 524076, 3663404; 524046, 3663404; 524046, 3663464; 524016, 3663464; 524016, 3663494; 523986, 3663494; 523986, 3663500; 523898, 3663500; 523898, 3663529; 523841, 3663529; 523841, 3663557; 523785, 3663557; 523785, 3663585; 523699, 3663585; 523699, 3663614; 523643, 3663614; 523643, 3663642; 523586, 3663642; 523586, 3663671; 523529, 3663671; 523529, 3663699; 523444, 3663699; 523444, 3663727; 523359, 3663727; 523359, 3663756; 523302, 3663756; 523302, 3663784; 523217, 3663784; 523217, 3663812; 523019, 3663812; 523019, 3663756; 522990, 3663756; 522990, 3663699; 522962, 3663699; 522962, 3663671; 522934, 3663671; 522934, 3663642; 522877, 3663642; 522877, 3663614; 522820, 3663614; 522820, 3663585; 522792, 3663585; 522792, 3663557; 522735, 3663557; 522735, 3663529; 522621, 3663529; 522621, 3663500; 522537, 3663500; 522525, 3663557; 522536, 3663557; 522536, 3663585; 522593, 3663585; 522593, 3663614; 522621, 3663614; 522621, 3663699; 522650, 3663699; 522650, 3663727; 522678, 3663727; 522678, 3663784; 522707, 3663784; 522707, 3663812; 522735, 3663812; 522735, 3663926; 522763, 3663926; 522763, 3663954; 522792, 3663954; 522792, 3663983; 522820, 3663983; 522820, 3664011; 522848, 3664011; 522848, 3664039; 522877, 3664039; 522877, 3664124; 522848, 3664124; 522848, 3664153; 522877, 3664153; 522877, 3664181; returning to 522905, 3664181.

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Excluding land bounded by 530100, 3665675; 530099, 3665819; 530072, 3665782; 530036, 3665732; 530017, 3665705; 530016, 3665770; 530016, 3665851; 530003, 3665874; 529983, 3665911; 529945, 3665994; 529926, 3665986; 529910, 3665980; 529888, 3665980; 529888, 3665980; 529898, 3665876; 529907, 3665824; 529911, 3665795; 529932, 3665662; 529949, 3665551; 529954, 3665554; 529958, 3665557; 530003,

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(iv) *Note:* Map of Unit 16 is provided at paragraph (17)(v) of this entry.

(22) Unit 17: San Diego River Basin, San Diego County, California.

(i) Subunit 17a: From USGS 1:24,000 quadrangle maps El Cajon Mtn., Tule Springs and Santa Ysabel, land bounded by the following UTM coordinates (E, N): 524451, 3648049; 524450, 3647699; 524437, 3647699; 524437, 3647670; 524409, 3647670; 524409, 3647653; 524248, 3647653; 524104, 3647654; 524040, 3647654; 524040, 3647670; 523926, 3647670; 523926, 3647654; 523844, 3647655; 523846, 3647557; 523841, 3647557; 523841, 3647500; 523813, 3647500; 523813, 3647415; 523785, 3647415; 523785, 3647358; 523756, 3647358; 523756, 3647302; 523728, 3647302; 523728, 3647273; 523699, 3647273; 523699, 3647245; 523671, 3647245; 523671, 3647188; 523643, 3647188; 523643, 3647103; 523614, 3647103; 523614, 3647075; 523586, 3647075; 523586, 3647046; 523558, 3647046; 523558, 3647018; 523501, 3647018; 523501, 3646990; 523473, 3646990; 523473, 3646961; 523444, 3646961; 523444, 3646876; 523387, 3646876; 523387, 3646875; 523367, 3646875; 523362, 3646848; 523359, 3646848; 523359, 3646831; 523352, 3646791; 523274, 3646791; 523274, 3646763; 523217, 3646763; 523217, 3646734; 523189, 3646734; 523189, 3646678; 523047, 3646678; 523047, 3646649; 522990, 3646649; 522990, 3646621; 522962, 3646621; 522962, 3646564; 522990, 3646564; 522990, 3646536; 523019, 3646536; 523019, 3646507; 522962, 3646507; 522962, 3646500; 522934, 3646500; 522934, 3646507; 522848, 3646507; 522848, 3646479; 522820, 3646479; 522820, 3646451; 522848, 3646451; 522848, 3646286; 522837, 3646224; 522820, 3646224; 522820, 3646195; 522763, 3646195; 522763, 3646139; 522735, 3646139; 522735, 3646110; 522763, 3646110; 522763, 3646082; 522735, 3646082; 522735, 3646025; 522650, 3646025; 522650, 3645997; 522621, 3645997; 522621, 3645968; 522593, 3645968; 522593, 3645912; 522565, 3645912; 522565, 3645883; 522480, 3645883; 522480, 3645770; 522508, 3645770; 522508, 3645741; 522536, 3645741; 522536, 3645656; 522557, 3645656; 522555, 3645458; 522451, 3645458; 522451, 3645486; 522366, 3645486; 522366, 3645514; 522309, 3645514; 522309, 3645543; 522253, 3645543; 522253, 3645571; 522196, 3645571; 522196, 3645600; 522139, 3645600; 522139, 3645628; 522082, 3645628; 522082, 3645656; 522054, 3645656; 522054, 3645685; 522026, 3645685; 522026, 3645713; 521969, 3645713; 521969, 3645741; 521941, 3645741; 521941, 3645770; 521912, 3645770; 521912, 3645798; 521884, 3645798; 521884, 3645826; 521855, 3645826; 521855, 3645855; 521827, 3645855; 521827, 3645883; 521799, 3645883; 521799, 3645912; 521770, 3645912; 521770, 3645940; 521742, 3645940; 521742, 3645968; 521714, 3645968; 521714, 3646025; 521685, 3646025; 521685, 3646053; 521657, 3646053; 521657, 3646110; 521629, 3646110; 521629, 3646125; 521641, 3646125; 521652, 3646195; 521657, 3646195; 521657, 3646226; 521666, 3646280; 521685, 3646280; 521685, 3646337; 521742, 3646337; 521742, 3646309; 521799, 3646309; 521799, 3646280; 521855, 3646280; 521855, 3646309; 521884, 3646309; 521884, 3646422; 521912, 3646422; 521912, 3646451; 521941, 3646451; 521941, 3646536; 521912, 3646536; 521912, 3646564; 521905, 3646564; 521932, 3646734; 521941, 3646734; 521941, 3646788; 521950, 3646848; 521969, 3646848; 521969, 3646876; 521997, 3646876; 521997, 3646848; 522026, 3646848; 522026, 3647018; 522139, 3647018; 522139, 3647046; 522196, 3647046; 522196, 3647075; 522253, 3647075; 522253, 3647046; 522281, 3647046; 522281, 3647103; 522338, 3647103; 522338, 3647131; 522366, 3647131; 522366, 3647217; 522394, 3647217; 522394, 3647245; 522451, 3647245; 522451, 3647249; 522613, 3647249; 522954, 3647249; 523019, 3647250; 523019, 3647245; 523217, 3647245; 523217, 3647273; 523246, 3647273; 523246, 3647302; 523302, 3647302; 523302, 3647330; 523331, 3647330; 523331, 3647358; 523359, 3647358; 523359, 3647387; 523387, 3647387; 523387, 3647415; 523416, 3647415; 523416, 3647529; 523444, 3647529; 523444, 3647557; 523473, 3647557; 523473, 3647585; 523501, 3647585; 523501, 3647614; 523529, 3647614; 523529, 3647670; 523558, 3647670; 523558, 3647699; 523586, 3647699; 523586, 3647756; 523614, 3647756; 523614, 3647812; 523643, 3647812; 523643, 3647841; 523671, 3647841; 523671, 3647869; 523699, 3647869; 523699, 3647897; 523728, 3647897; 523728, 3647926; 523785, 3647926; 523785, 3647954; 523955, 3647954; 523955, 3647926; 524012, 3647926; 524012, 3647897; 524097, 3647897; 524097, 3647869; 524153, 3647869; 524153, 3647897; 524182, 3647897; 524182, 3647983; 524153, 3647983; 524153, 3648053; 524246, 3648052; returning to 524451, 3648049.

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(iv) Subunit 17b: From USGS 1:24,000 quadrangle map El Cajon Mtn. San Vicente Reservoir, and El Cajon, land bounded by the following UTM coordinates (E, N): 514386, 3639704; 514386, 3639674; 514446, 3639674; 514446, 3639644; 514536, 3639644; 514536, 3639614; 514566, 3639614; 514566, 3639584; 514596, 3639584; 514596, 3639614; 514866, 3639614; 514866, 3639584; 514926, 3639584; 514926, 3639554; 514956, 3639554; 514956, 3639524; 514986, 3639524; 514986, 3639494; 515016, 3639494; 515016, 3639404; 515046, 3639404; 515046, 3639374; 515076, 3639374; 515076, 3639344; 515226, 3639344; 515226, 3639314; 515235, 3639314; 515286, 3639314; 515286, 3639344; 515376, 3639344; 515376, 3639314; 515406, 3639314; 515406, 3639254; 515436, 3639254; 515436, 3639224; 515496, 3639224; 515496, 3639164; 515526, 3639164; 515526, 3639134; 515586, 3639134; 515586, 3639104; 515646, 3639104; 515646, 3639134; 515796, 3639134; 515796, 3639104; 515856, 3639104; 515856, 3639074; 515916, 3639074; 515916, 3639044; 516006, 3639044; 516006, 3639014; 516066, 3639014; 516066, 3638984; 516126, 3638984; 516126, 3638924; 516156, 3638924; 516156, 3638894; 516186, 3638894; 516186, 3638834; 516216, 3638834; 516216, 3638804; 516336, 3638804; 516336, 3638774; 516426, 3638774; 516426, 3638744; 516516, 3638744; 516516, 3638714; 516606, 3638714; 516606, 3638684; 516726, 3638684; 516726, 3638654; 517176, 3638654; 517176, 3638684; 517206, 3638684; 517206, 3638714; 517266, 3638714; 517266, 3638744; 517296, 3638744; 517296, 3638774; 517326, 3638774; 517326, 3638834; 517386, 3638834; 517386, 3638864; 517446, 3638864; 517446, 3638834; 517506, 3638834; 517506, 3638804; 517536, 3638804; 517536, 3638744; 517566, 3638744; 517566, 3638714; 517626, 3638714; 517626, 3638684; 517926,

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(v) Subunit 17d: From USGS 1:24,000 quadrangle maps El Cajon Mtn., Ramona, and San Vicente Reservoir. Land bounded by the following UTM coordinates (E, N): 516538, 3651895; 516538, 3651738; 516595, 3651747; 516826, 3651690; 516843, 3651620; 516850, 3651614; 516846, 3651614; 516846, 3651524; 516876, 3651524; 516876, 3651434; 516726, 3651434; 516726, 3651404; 516666, 3651404; 516666, 3651374; 516606, 3651374; 516606, 3651344; 516456, 3651344; 516456, 3651314; 516396, 3651314; 516396, 3651284; 516216, 3651284; 516216, 3651254; 516186, 3651254; 516186, 3651224; 516156, 3651224; 516156, 3651194; 516126, 3651194; 516126, 3651164; 516036, 3651164; 516036, 3651104; 515976, 3651104; 515976, 3651074; 515905, 3651074; 515905, 3651177; 515844, 3651227; 515651, 3651214; 515498, 3651180; 515417, 3651156; 515395, 3651211; 515168, 3651025; 514977, 3650964; 514856, 3650913; 514642, 3650849; 514659, 3650833; 514685, 3650804; 514698, 3650791; 514722, 3650758; 514801, 3650601; 514823, 3650568; 514605, 3650564; 514608, 3650502; 514656, 3650454; 514722, 3650376; 514781, 3650355; 514826, 3650360; 514826, 3650264; 514707, 3650264; 514698, 3650285; 514615, 3650380; 514557, 3650470; 514524, 3650489; 514410, 3650476; 514339, 3650501; 514204, 3650496; 514149, 3650502; 514098, 3650460; 514061, 3650426; 514092, 3650289; 514108, 3650234; 514086, 3650234; 514086, 3650204; 514056, 3650204; 514056, 3650144; 513996, 3650144; 513996, 3650114; 513906, 3650114; 513906, 3650144; 513786, 3650144; 513786, 3650114; 513696, 3650114; 513696, 3650144; 513636, 3650144; 513636, 3650174; 513546, 3650174; 513546, 3650114; 513516, 3650114; 513516, 3650084; 513306, 3650084; 513306, 3650054; 513186, 3650054; 513186, 3650084; 513156, 3650084; 513156, 3650054; 513096, 3650054; 513096, 3650024; 513066, 3650024; 513066, 3649994; 513036, 3649994; 513036, 3649964; 513006, 3649964; 513006, 3649724; 512976, 3649724; 512976, 3649664; 512946, 3649664; 512946, 3649604; 512976, 3649604; 512976, 3649484; 512946, 3649484; 512946, 3649454; 512916, 3649454; 512916, 3649424; 512886, 3649424; 512886, 3649394; 512766, 3649394; 512766, 3649364; 512706, 3649364; 512706, 3649334; 512526, 3649334; 512526, 3649304; 512496, 3649304; 512496, 3649244; 512436, 3649244; 512436, 3649214; 512376, 3649214; 512376, 3649184; 512346, 3649184; 512346, 3649154; 512316, 3649154; 512316, 3649064; 512226, 3649064; 512226, 3649034; 512196, 3649034; 512196, 3649004; 512166, 3649004; 512166, 3648944; 512136, 3648944; 512136, 3648914; 512076, 3648914; 512076, 3648884; 512046, 3648884; 512046, 3648854; 512016, 3648854; 512016, 3648794; 511986, 3648794; 511986, 3648764; 511956, 3648764; 511956, 3648734; 511896, 3648734; 511896, 3648704; 511866, 3648704; 511866, 3648644; 511836, 3648644; 511836, 3648614; 511866, 3648614; 511866, 3648524; 511896, 3648524; 511896, 3648494; 511926, 3648494; 511926, 3648464; 511956, 3648464; 511956, 3648434; 511986, 3648434; 511986, 3648374; 511926, 3648374; 511926, 3648404; 511836, 3648404; 511836, 3648434; 511776, 3648434; 511776, 3648464; 511746, 3648464; 511746, 3648494; 511686, 3648494; 511686, 3648524; 511296, 3648524; 511296, 3648494; 511236, 3648494; 511236, 3648464; 511206, 3648464; 511206, 3648434; 511176, 3648434; 511176, 3648404; 511146, 3648404; 511146, 3648374; 511116, 3648374; 511116, 3648344; 511086, 3648344; 511086, 3648314; 510996, 3648314; 510996, 3648284; 510786, 3648284; 510786, 3648254; 510756, 3648254; 510756, 3648224; 510726, 3648224; 510726, 3648194; 510696, 3648194; 510696, 3648164; 510426, 3648164; 510426, 3648194; 510336, 3648194; 510336, 3648164; 510306, 3648164; 510306, 3648134; 510246, 3648134; 510246, 3648104; 510216, 3648104; 510216, 3648074; 510186, 3648074; 510186, 3647864; 510216, 3647864; 510216, 3647624; 510426, 3647624; 510426, 3647564; 510456, 3647564; 510456, 3647504; 510486, 3647504; 510486, 3647474; 510546, 3647474; 510546, 3647384; 510516, 3647384; 510516, 3647354; 510396, 3647354; 510396, 3647384; 510336, 3647384; 510336, 3647414; 510036, 3647414; 510036, 3647354; 510006, 3647354; 510006, 3647324; 509976, 3647324; 509976, 3647294; 509946, 3647294; 509946, 3647264; 509916, 3647264; 509916, 3647204; 509886, 3647204; 509886, 3647174; 509916, 3647174; 509916, 3647144; 509946, 3647144; 509946, 3647114; 509976, 3647114; 509976, 3647084; 510006, 3647084; 510006, 3647054; 509886, 3647054; 509886, 3647024; 509796, 3647024; 509796, 3646994; 509766,

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Excluding land bounded by 514026, 3650954; 514026, 3650924; 513966, 3650924; 513966, 3650894; 513996, 3650894; 513996, 3650864; 514026, 3650864; 514026, 3650894; 514056, 3650894; 514056, 3650954; returning to 514026, 3650954. Excluding land bounded

by 510816, 3648437; 510816, 3648434; 510906, 3648434; 510906, 3648524; 510876, 3648524; 510876, 3648554; 510846, 3648554; 510846, 3648464; 510816, 3648464; returning to 510816, 3648437.

(vi) *Note:* Map of Unit 17 is provided at paragraph (17)(v) of this entry.

(23) Unit 18: Sweetwater River Basin, San Diego County, California.

(i) Subunit 18a: From USGS 1:24,000 quadrangle maps Alpine, Viejas Mountain, Descanso, and Cuyamaca Peak, land bounded by the following UTM coordinates (E, N): 523206, 3628484; 523206, 3628454; 523236, 3628454; 523236, 3628484; 523206, 3628484; 523206, 3628574; 523176, 3628574; 523176, 3628604; 523146, 3628604; 523146, 3628634; 523116, 3628634; 523116, 3628664; 523086, 3628664; 523086, 3628724; 523056, 3628724; 523056, 3628754; 523026, 3628754; 523026, 3628784; 522996, 3628784; 522996, 3628844; 522966, 3628844; 522966, 3628874; 522936, 3628874; 522936, 3628904; 522966, 3628904; 522966, 3628934; 523056, 3628934; 523056, 3628964; 523086, 3628964; 523086, 3629024; 523116, 3629024; 523116, 3629084; 523266, 3629084; 523266, 3629114; 523356, 3629114; 523356, 3629144; 523416, 3629144; 523416, 3629174; 523446, 3629174; 523446, 3629204; 523506, 3629204; 523506, 3629234; 523566, 3629234; 523566, 3629264; 523626, 3629264; 523626, 3629294; 523656, 3629294; 523656, 3629354; 523686, 3629354; 523686, 3629624; 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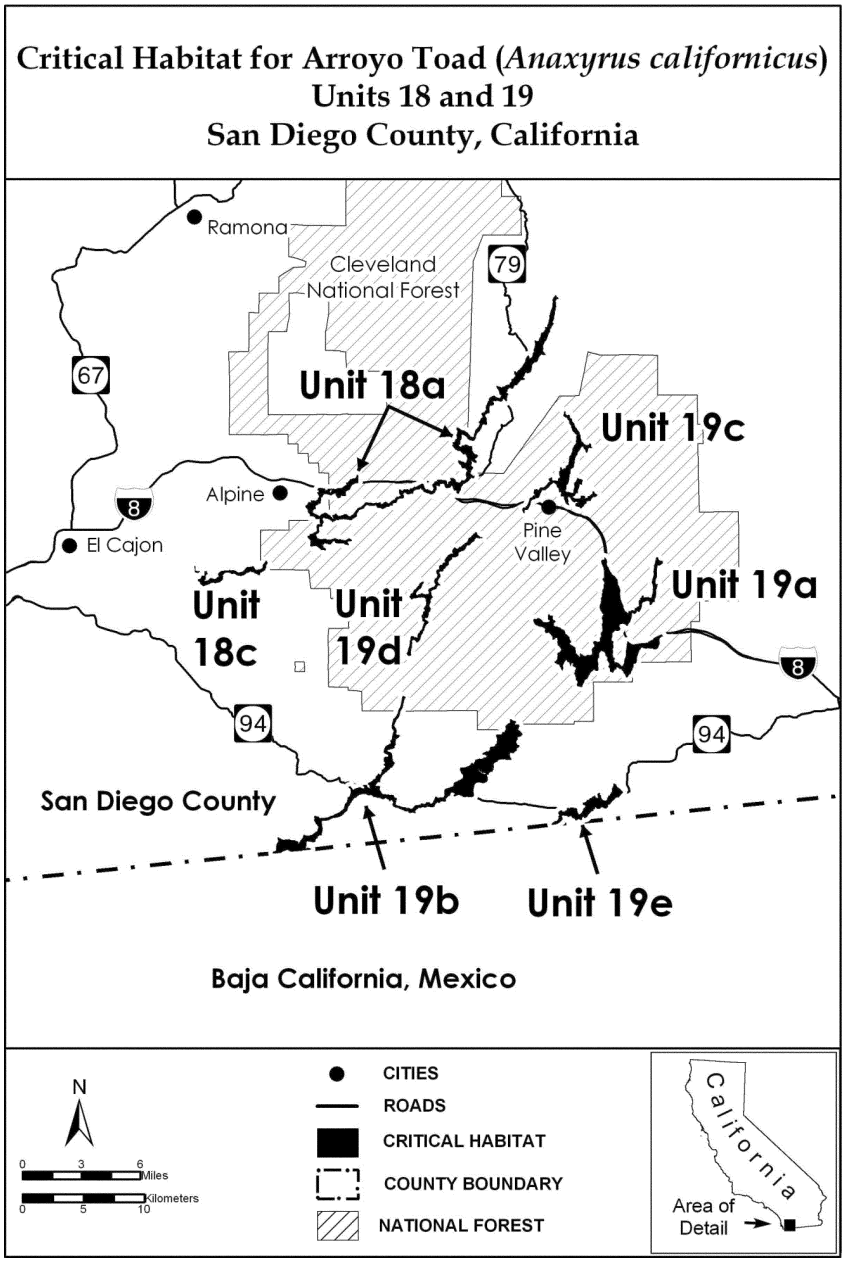
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(ii) Subunit 18c: From USGS 1:24,000 quadrangle map Alpine, land bounded by the following UTM coordinates (E, N): 513673, 3626397; 513674, 3626074; 514075, 3626046; 514077, 3625994; 514026, 3625994; 514026, 3625964; 513966, 3625964; 513966, 3625934; 513816, 3625934; 513816, 3625964; 513696, 3625964; 513696, 3626054; 513666, 3626054; 513666, 3626354; 513636, 3626354; 513636, 3626450; 513673, 3626447; returning to 513673, 3626397.

(iiii) Land bounded by the following UTM coordinates (E, N): 518196, 3626114; 518226, 3626114; 518226, 3626144; 518196, 3626144; 518196, 3626174; 518166, 3626174; 518166, 3626144; 518196, 3626144; 518196, 3626114; 518166, 3626114; 518166, 3626054; 518136, 3626054; 518136, 3625994; 518076, 3625994; 518076, 3625964; 517986, 3625964; 517986, 3625934; 517836, 3625934; 517836, 3625904; 517806, 3625904; 517806, 3625874; 517776, 3625874; 517776, 3625844; 517716, 3625844; 517716, 3625814; 517656, 3625814; 517656, 3625754; 517536, 3625754; 517536, 3625724; 517476, 3625724; 517476, 3625694; 517386, 3625694; 517386, 3625724; 517176, 3625724; 517176, 3625754; 517116, 3625754; 517116, 3625784; 517056, 3625784; 517056, 3625814; 517026, 3625814; 517026, 3625844; 516996, 3625844; 516996, 3625874; 516936, 3625874; 516936, 3625904; 516786, 3625904; 516786, 3625874; 516666, 3625874; 516666, 3625904; 516606, 3625904; 516606, 3625934; 516456, 3625934; 516456, 3625964; 516186, 3625964; 516186, 3625934; 516066, 3625934; 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(iv) *Note:* Map of Units 18 and 19 follows.



(24) Unit 19: Cottonwood Creek Basin, San Diego County, California.

(i) Subunit 19a: From USGS 1:24,000 quadrangle maps Morena Reservoir, Cameron Corners and Mount Laguna, land bounded by the following UTM coordinates (E,N): 544887, 3619754; 544891, 3619395; 544918, 3619372; 544919, 3619283; 545309, 3618949; 545299, 3619235; 545332,

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(ii) Subunit 19b: From USGS 1:24,000 quadrangle maps Barrett Lake, Tecate, Potrero and Morena Reservoir, land bounded by the following UTM coordinates (E, N): 529986, 3613334; 529986, 3613304; 530016, 3613304; 530016, 3613274; 530046, 3613274; 530046, 3613244; 530076, 3613244; 530076, 3613184; 530106, 3613184; 530106, 3613154; 530136, 3613154; 530136, 3613124; 530166, 3613124; 530166, 3613034; 530196, 3613034; 530196, 3612794; 530166, 3612794; 530166, 3612644; 530196, 3612644; 530196, 3612584; 530406, 3612584; 530406, 3612554; 530466, 3612554; 530466, 3612524; 530406, 3612524; 530406, 3612494; 530376, 3612494; 530376, 3612434; 530346, 3612434; 530346, 3612404; 530316, 3612404; 530316, 3612374; 530286, 3612374; 530286, 3612344; 530256, 3612344; 530256, 3612314; 530226, 3612314; 530226, 3612284; 530136, 3612284; 530136, 3612224; 530106, 3612224; 530106, 3612164; 530136, 3612164; 530136, 3612104; 530106, 3612104; 530106, 3611864; 530136, 3611864; 530136, 3611834; 530106, 3611834; 530106, 3611774; 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(iii) Subunit 19c: From USGS 1:24,000 quadrangle maps Descanso, and Cuyamaca Peak, land bounded by the following UTM coordinates (E, N): 544040, 3639046; 544040, 3639018; 544068, 3639018; 544068, 3638990; 544097, 3638990; 544097, 3638961; 544125, 3638961; 544125, 3638876; 544324, 3638876; 544324, 3638905; 544380, 3638905; 544380, 3638848; 544409, 3638848; 544409, 3638678; 544437, 3638678; 544437, 3638649; 544494, 3638649; 544494, 3638593; 544579, 3638593; 544579, 3638422; 544607, 3638422; 544607, 3638337; 544636, 3638337; 544636, 3638309; 544664, 3638309; 544664, 3638280; 544693, 3638280; 544693, 3638252; 544721, 3638252; 544721, 3638224; 544749, 3638224; 544749, 3638195; 544778, 3638195; 544778, 3638054; 544806, 3638054; 544806, 3637997; 544834, 3637997; 544834, 3637912; 544863, 3637912; 544863, 3637883; 544834, 3637883; 544834, 3637827; 544948, 3637827; 544948, 3637798; 544976, 3637798; 544976, 3637741; 545005, 3637741; 545005, 3637685; 545033, 3637685; 545033, 3637656; 545090, 3637656; 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(iv) Subunit 19d: From USGS 1:24,000 quadrangle maps Barrett Lake, Viejas Mtn., and Descanso, land bounded by the following UTM coordinates (E, N): 536796, 3629174; 536796, 3629144; 536826, 3629144; 536826, 3629054; 536856, 3629054; 536856, 3629024; 536886, 3629024; 536886, 3628994; 536916, 3628994; 536916, 3628964; 536946, 3628964; 536946, 3628934; 536976, 3628934; 536976, 3628904; 537036, 3628904; 537036, 3628874; 537066, 3628874; 537066, 3628844; 537246, 3628844; 537246, 3628814; 537036, 3628814; 537036, 3628784; 537006, 3628784; 537006, 3628814; 536886, 3628814; 536886, 3628844; 536736, 3628844; 536736, 3628814; 536706, 3628814; 536706, 3628784; 536676, 3628784; 536676, 3628754; 536646, 3628754; 536646, 3628724; 536616, 3628724; 536616, 3628694; 536586, 3628694; 536586, 3628574; 536556, 3628574; 536556, 3628544; 536526, 3628544; 536526, 3628514; 536466, 3628514; 536466, 3628484; 536406, 3628484; 536406, 3628454; 536346, 3628454; 536346, 3628394; 536316, 3628394; 536316, 3628334; 536286, 3628334; 536286, 3628304; 536226, 3628304; 536226, 3628244; 536136, 3628244; 536136, 3628214; 536076, 3628214; 536076, 3628244; 535986, 3628244; 535986, 3628214; 535956, 3628214; 535956, 3628154; 535926, 3628154; 535926, 3628094; 535896, 3628094; 535896, 3628064; 535866, 3628064; 535866, 3627944; 535836, 3627944; 535836, 3627914; 535806, 3627914; 535806, 3627884; 535776, 3627884; 535776, 3627854; 535746, 3627854; 535746, 3627794; 535716, 3627794; 535716, 3627764; 535656, 3627764; 535656, 3627734; 535506, 3627734; 535506, 3627704; 535476, 3627704; 535476, 3627734; 535446, 3627734; 535446, 3627704; 535386, 3627704; 535386, 3627674; 535356, 3627674; 535356, 3627644; 535326, 3627644;

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(v) Subunit 19e: From USGS 1:24,000 quadrangle maps Potrero and Campo, land bounded by the following UTM coordinates (E, N): 544664, 3605968; 544693, 3605968; 544693, 3605997; 544664, 3605997; 544664, 3605968; 544551, 3605968; 544551, 3605940; 544494, 3605940; 544494, 3605968; 544466, 3605968; 544466, 3605940; 544380, 3605940; 544380, 3605911; 544352, 3605911; 544352, 3605883; 544295, 3605883; 544295, 3605911; 544267, 3605911; 544267, 3605940; 544239, 3605940; 544239, 3605968; 544012, 3605968; 544012, 3605997; 543785, 3605997; 543785, 3605940; 543756, 3605940; 543756, 3605826; 543785, 3605826; 543785, 3605770; 543813, 3605770; 543813, 3605684; 543785, 3605684; 543785, 3605628; 543756, 3605628; 543756, 3605599; 543728, 3605599; 543728, 3605571; 543700, 3605571; 543700, 3605514; 543643, 3605514; 543643, 3605486; 543615, 3605486; 543615, 3605458; 543586, 3605458; 543586, 3605429; 543558, 3605429; 543558, 3605401; 543501, 3605401; 543501, 3605372; 543473, 3605372; 543473, 3605344; 543444, 3605344; 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(vi) *Note:* Map of Unit 19 is provided at paragraph (24)(v) of this entry.

(25) Unit 20: Upper Santa Ana River Basin, San Bernardino County, California.

(i) From USGS 1:24,000 quadrangle maps Cajon and Devore, land bounded by the following UTM coordinates (E, N): 457095, 3792110; 457067, 3792110; 457067, 3792138; 457095, 3792138; returning to 457095, 3792110.

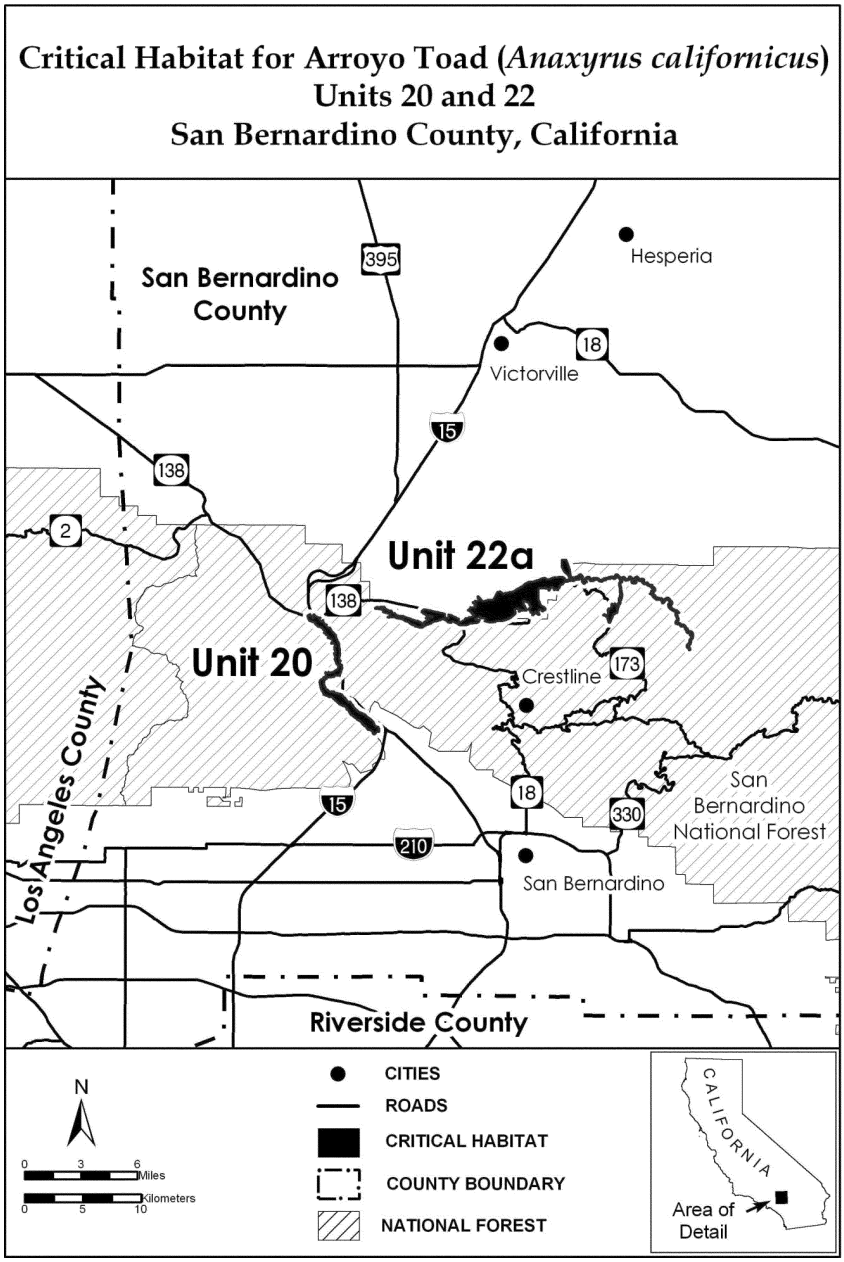
(ii) Land bounded by the following UTM coordinates (E, N): 457208, 3796209; 457208, 3796237; 457236, 3796237; 457236, 3796209; returning to 457208, 3796209; thence from land bounded by the following UTM coordinates (E, N): 457208, 3796209; 457208, 3796153; 457180, 3796153; 457180, 3796069; 457208, 3796069; 457208, 3796040; 457236, 3796040; 457236, 3796012; 457264, 3796012; 457264, 3795984; 457320, 3795984; 457320, 3795956; 457404, 3795956; 457404, 3795928; 457517, 3795928; 457517, 3795872; 457545, 3795872; 457545, 3795816; 457573, 3795816; 457573, 3795760; 457601, 3795760; 457601, 3795704; 457629, 3795704; 457629, 3795676; 457657, 3795676; 457657, 3795647; 457685, 3795647; 457685, 3795619; 457713, 3795619; 457713, 3795591; 457741, 3795591; 457741, 3795563; 457769, 3795563; 457769, 3795535; 457797, 3795535; 457797, 3795507; 457825, 3795507; 457825, 3795451; 457853, 3795451; 457853, 3795395; 457910, 3795395; 457910, 3795339; 457994, 3795339; 457994, 3795254; 458022, 3795254; 458022, 3795086; 458050, 3795086; 458050, 3794974; 458078, 3794974; 458078, 3794946; 458106, 3794946; 458106, 3794889; 458134, 3794889; 458134, 3794777; 458162, 3794777; 458162, 3794749; 458190, 3794749; 458190, 3794693; 458218, 3794693; 458218, 3794637; 458246, 3794637; 458246, 3794553; 458275, 3794553; 458275, 3794244; 458303, 3794244; 458303, 3794131; 458331, 3794131; 458331, 3793823; 458359, 3793823; 458359, 3793738; 458387, 3793738; 458387, 3793710; 458359, 3793710; 458359, 3793654; 458331, 3793654; 458331, 3793486; 458303, 3793486; 458303, 3793402; 458275, 3793402; 458275, 3793205; 458303, 3793205; 458303, 3793149; 458331, 3793149; 458331, 3793121; 458415, 3793121; 458415, 3793037; 458387, 3793037; 458387, 3792980; 458359, 3792980; 458359, 3792868; 458387, 3792868; 458387, 3792812; 458415, 3792812; 458415, 3792784; 458471, 3792784; 458471, 3792756; 458527, 3792756; 458527, 3792700; 458499, 3792700; 458499, 3792616; 458527, 3792616; 458527, 3792503; 458555, 3792503; 458555, 3792447; 458527, 3792447; 458527, 3792363; 458499, 3792363; 458499, 3792335; 458471, 3792335; 458471, 3792138; 458443, 3792138; 458443, 3792054; 458415, 3792054; 458415, 3791998; 458387, 3791998; 458387, 3791970; 458359, 3791970; 458359, 3791914; 458331, 3791914; 458331, 3791858; 458359, 3791858; 458359, 3791801; 458331, 3791801; 458331, 3791829; 458275, 3791829; 458275, 3791858; 458190, 3791858; 458190, 3791829; 458078, 3791829; 458078, 3791858; 457966, 3791858; 457966, 3791829; 457910, 3791829; 457910, 3791801; 457881, 3791801; 457881, 3791773; 457853, 3791773; 457853, 3791745; 457825, 3791745; 457825, 3791717; 457769, 3791717; 457769, 3791689; 457601, 3791689; 457601, 3791661; 457404, 3791661; 457404, 3791689; 457320, 3791689; 457320, 3791661; 457264, 3791661; 457264, 3791633; 457236, 3791633; 457236, 3791577; 457208,

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(iii) *Note:* Map of Units 20 and 22 follows.



(26) Unit 21: Little Rock Creek Basin, Los Angeles County, California.

(i) From USGS 1:24,000 quadrangle maps Juniper Hills and Pacifico Mtn., land bounded by the following UTM coordinates (E, N): 406323, 3814876; 406323, 3814756; 406353, 3814756; 406353, 3814726; 406383, 3814726; 406383, 3814696; 406413, 3814696; 406413, 3814426; 406383, 3814426;

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(ii) *Note:* Map of Unit 21 is provided at paragraph (12)(iii) of this entry

(27) Unit 22: Upper Mojave River Basin, San Bernardino County, California.

(i) Subunit 22a: From USGS 1:24,000 quadrangle maps Cajon, Silverwood Lake, Lake Arrowhead and Butler Peak, land bounded by the following UTM coordinates (E, N): 478323, 3800176; 478263, 3800176; 478263, 3800146; 478323, 3800146; 478323, 3800176; 478383, 3800176; 478383, 3800206; 478473, 3800206; 478473, 3800236; 478503, 3800236; 478503, 3800266; 478563, 3800266; 478563, 3800296; 478623, 3800296; 478623, 3800326; 478743, 3800326; 478743, 3800356; 478773, 3800356; 478773, 3800386; 478803, 3800386; 478803, 3800416; 478833, 3800416; 478833, 3800446; 478863, 3800446; 478863, 3800476; 478923, 3800476; 478923, 3800506; 479073, 3800506; 479073, 3800476; 479103, 3800476; 479103, 3800446; 479133, 3800446; 479133, 3800416; 479163, 3800416; 479163, 3800386; 479193, 3800386; 479193, 3800326; 479223, 3800326; 479223, 3800146; 479253, 3800146; 479253, 3800056; 479283, 3800056; 479283, 3800026; 479313, 3800026; 479313, 3799996; 479373, 3800056; 479403, 3800056; 479403, 3800116; 479433, 3800116; 479433, 3800206; 479463, 3800206; 479463, 3800236; 479523, 3800236; 479523, 3800266; 479583, 3800266; 479583, 3800296; 479763, 3800296; 479763, 3800266; 479793, 3800266; 479793, 3800236; 479823, 3800236; 479823, 3800176; 479853, 3800176; 479853, 3800146; 479883, 3800146; 479883, 3800116; 479973, 3800116; 479973, 3800146; 480003, 3800146; 480003, 3800176; 480093, 3800176; 480093, 3800206; 480423, 3800206; 480423, 3800176; 480513, 3800176; 480513, 3800146; 480543, 3800146; 480543, 3800116; 480603, 3800116; 480603, 3800086; 480633, 3800086; 480633, 3800056; 480663, 3800056; 480663, 3800026; 480783, 3800026; 480783, 3800056; 480843, 3800056; 480843, 3800086; 480903, 3800086; 480903, 3800116; 480933, 3800116; 480933, 3800146; 480993, 3800146; 480993, 3800176; 481113, 3800176; 481113, 3800206; 481323, 3800206; 481323, 3800236; 481383, 3800236; 481383, 3800266; 481413, 3800266; 481413, 3800296; 481443, 3800296; 481443, 3800266; 481533, 3800266; 481533, 3800296; 481593, 3800296; 481593, 3800326; 481803, 3800326; 481803, 3800296; 481863, 3800296; 481863, 3800266; 481893, 3800266; 481893, 3800296; 481923, 3800296; 481923, 3800326; 481953, 3800326; 481953, 3800446; 481983, 3800446; 481983, 3800476; 482013, 3800476; 482013, 3800506; 482163,

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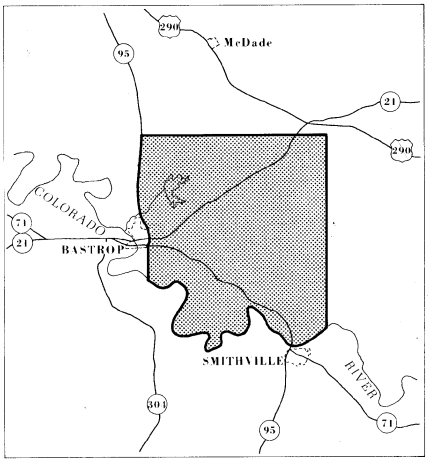
(ii) *Note:* Map of Unit 22 is provided at paragraph (25)(iii) of this entry.

HOUSTON TOAD (*Bufo houstonensis*)

Texas: Areas of land, water, and airspace as follows:

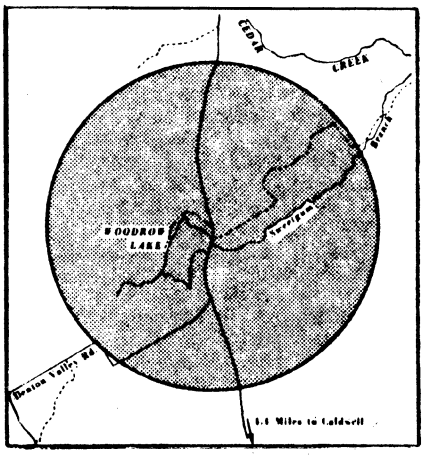
(1) *Bastrop County.* From the junction of a line corresponding to 30°12′00″ N. and Texas State Highway 95 east along a line corresponding to 30°12′00″ N. to where it intersects a line corresponding to 97°7′30″ W. and south along a line corresponding to 97°7′30″ W. to where it intersects the Colorado 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: The map provided is for informational purposes only. 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: The map provided is for informational purposes only. Map follows:



YOSEMITE TOAD (*Anaxyrus canorus*)

(1) Critical habitat units are depicted for Alpine, Tuolumne, Mono, Mariposa, Madera, Fresno, and Inyo Counties, California, on the maps in this entry.

(2) Within these areas, the primary constituent elements of the physical or biological features essential to the conservation of the Yosemite toad consist of two components:

(i) *Aquatic breeding habitat.*

(A) This habitat consists of bodies of fresh water, including wet meadows, slow-moving streams, shallow ponds, spring systems, and shallow areas of lakes, that:

(*1*) Are typically (or become) inundated during snowmelt;

(*2*) Hold water for a minimum of 5 weeks, but more typically 7 to 8 weeks; and

(*3*) Contain sufficient food for tadpole development.

(B) During periods of drought or less than average rainfall, these breeding sites may not hold surface water long enough for individual Yosemite toads to complete metamorphosis, but they are still considered essential breeding habitat because they provide habitat in most years.

(ii) *Upland areas.*

(A) This habitat consists of areas adjacent to or surrounding breeding habitat up to a distance of 1.25 kilometers (0.78 miles) in most cases (that is, depending on surrounding landscape and dispersal barriers), including seeps, springheads, talus and boulders, and areas that provide:

(*1*) Sufficient cover (including rodent burrows, logs, rocks, and other surface objects) to provide summer refugia,

(*2*) Foraging habitat,

(*3*) Adequate prey resources,

(*4*) Physical structure for predator avoidance,

(*5*) Overwintering refugia for juvenile and adult Yosemite toads,

(*6*) Dispersal corridors between aquatic breeding habitats,

(*7*) Dispersal corridors between breeding habitats and areas of suitable summer and winter refugia and foraging habitat, and/or

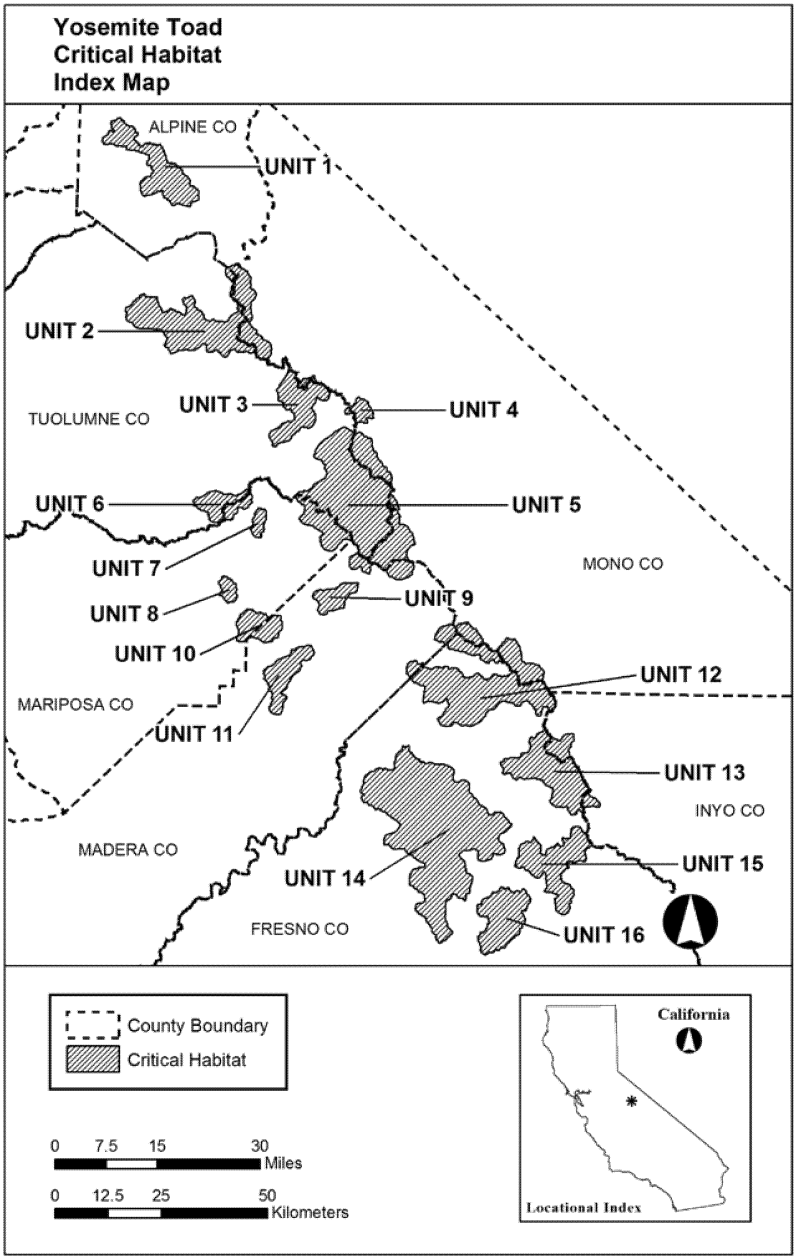
(*8*) The natural hydrologic regime of aquatic habitats (the catchment).

(B) These upland areas should also maintain sufficient water quality to provide for the various life stages of the Yosemite toad and its prey base.

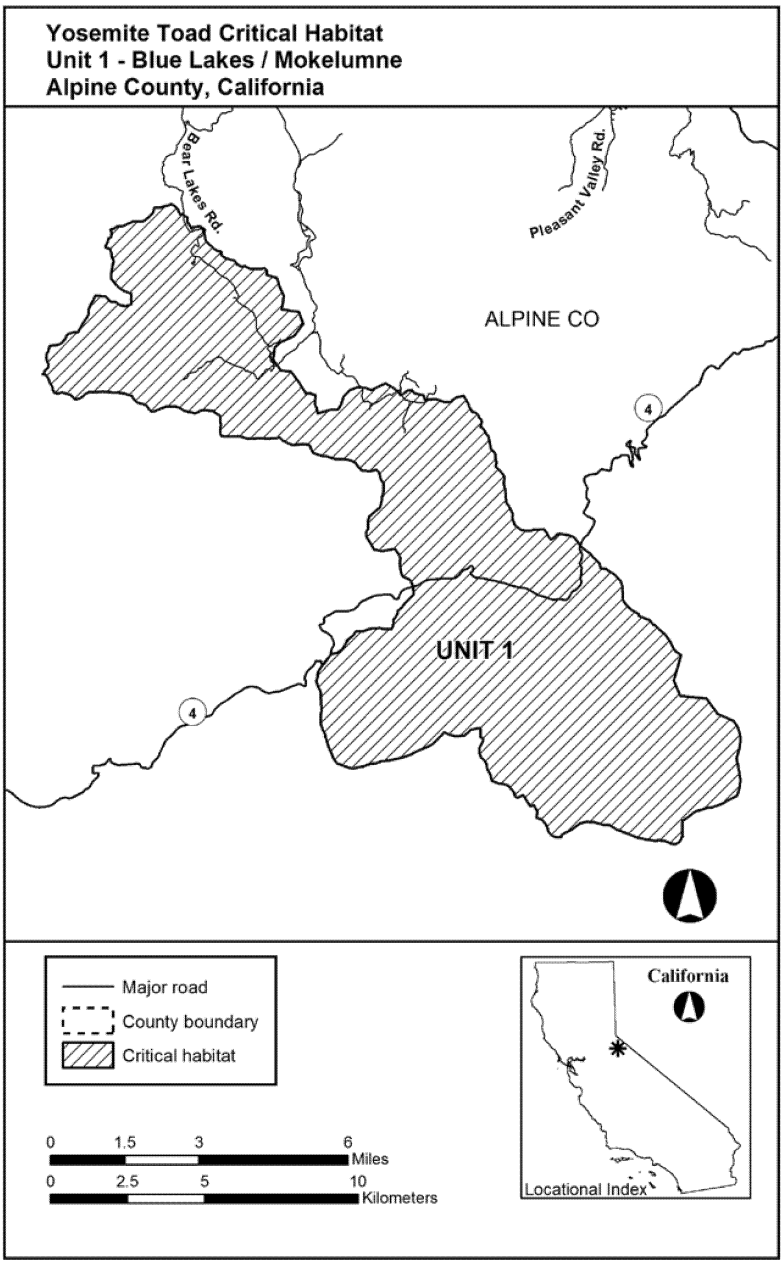
(3) Critical habitat does not include manmade structures (such as buildings, aqueducts, runways, roads, and other paved areas) and the land on which they are located existing within the legal boundaries of designated critical habitat on September 26, 2016.

(4) *Critical habitat map units.* The critical habitat subunit maps were originally created using ESRI's ArcGIS Desktop 10 software and then exported as .emf files. All maps are in the North American Datum of 1983 (NAD83), Universal Transverse Mercator (UTM) Zone 10N. The California County Boundaries dataset (Teale Data Center), and the USA Minor Highways, USA Major Roads, and USA Rivers and Streams layers (ESRI's 2010 StreetMap Data) were incorporated as base layers to assist in the geographic location of the critical habitat subunits. The coordinates or plot points or both on which each map is based are available to the public on *http://regulations.gov* at Docket No. FWS–R8–ES–2012–0074, on our Internet site (*http://www.fws.gov/sacramento*), and at the Sacramento Fish and Wildlife Office, 2800 Cottage Way Room W–2605, Sacramento, CA 95825.

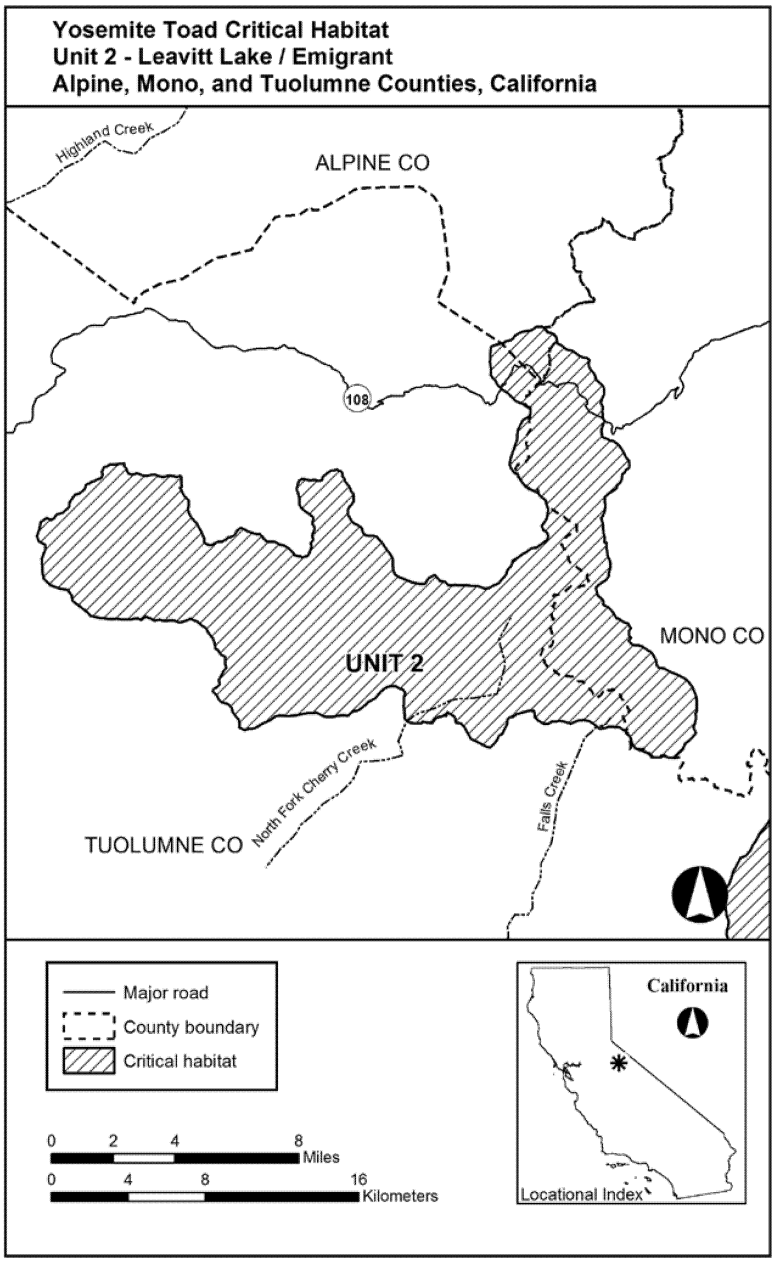
(5) Index map for Yosemite toad critical habitat follows:



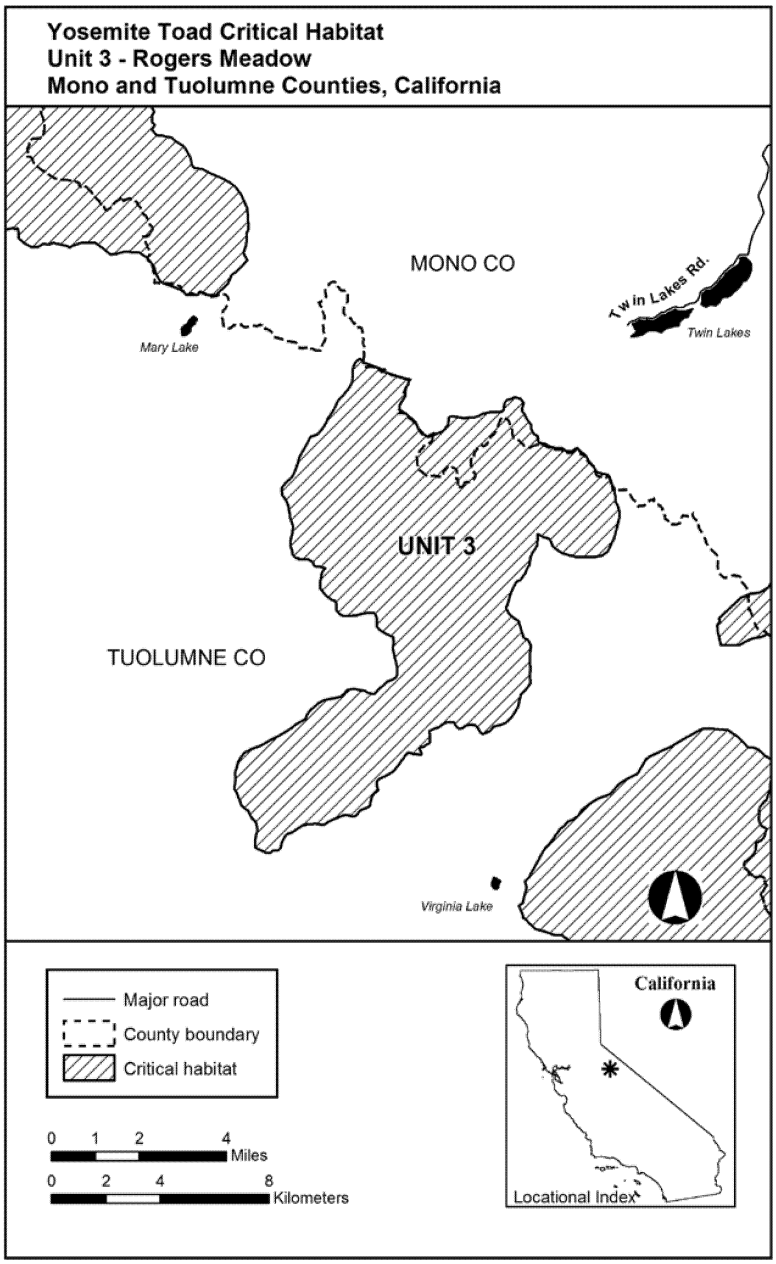
(6) Unit 1: Blue Lakes/Mokelumne, Alpine County, California. Map follows:



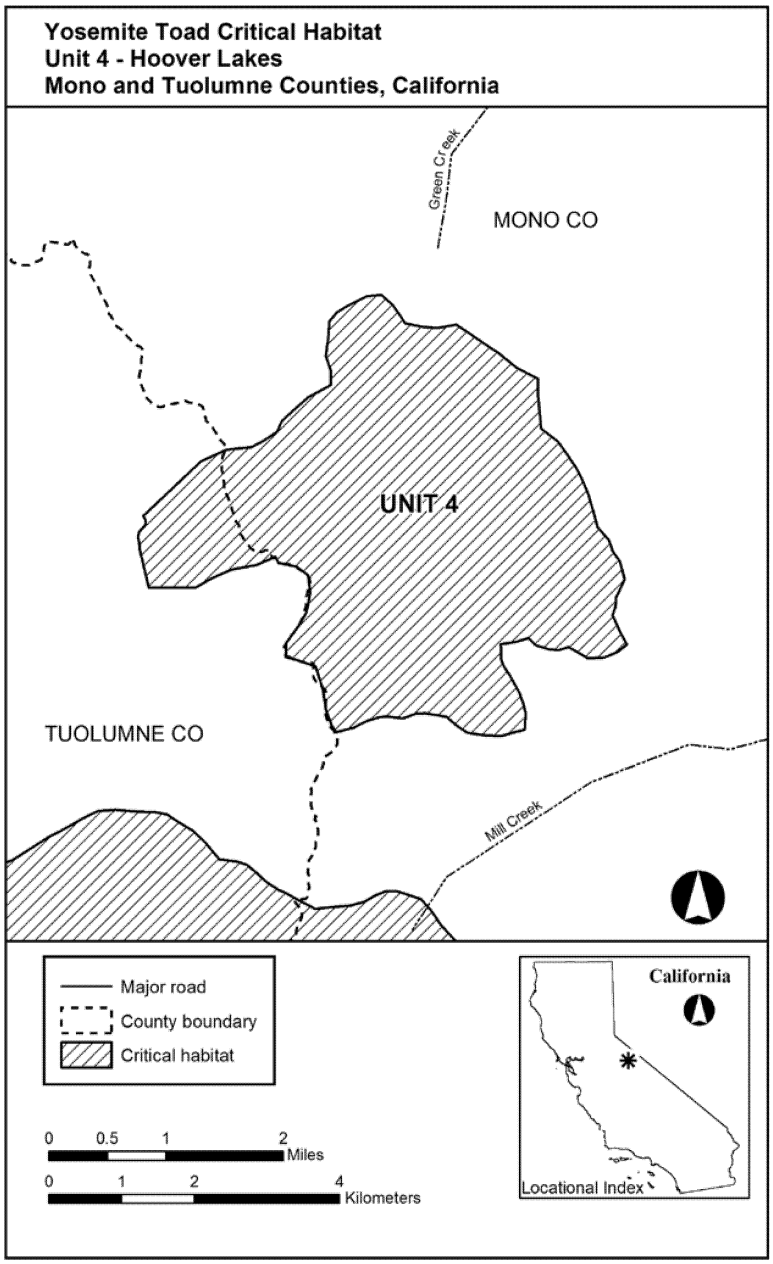
(7) Unit 2: Leavitt Lake/Emigrant, Alpine, Mono, and Tuolumne Counties, California. Map follows:



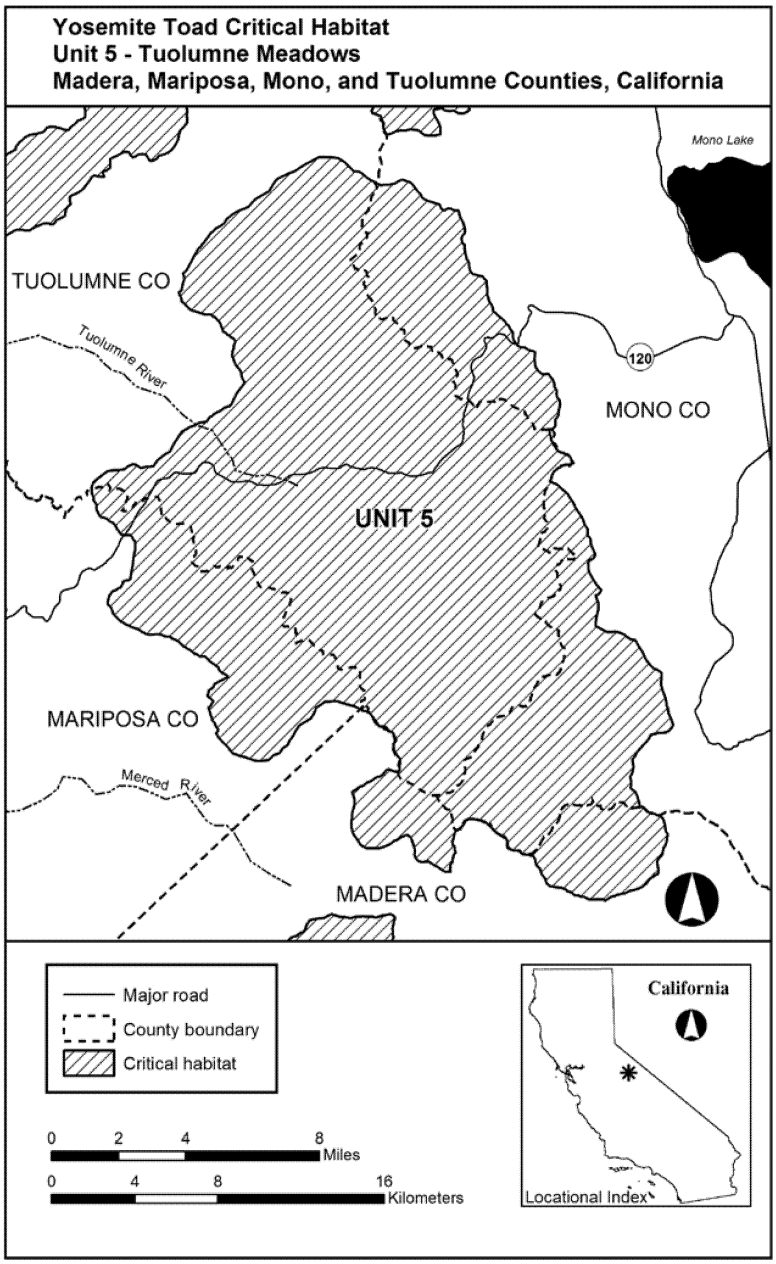
(8) Unit 3: Rogers Meadow, Mono and Tuolumne Counties, California. Map follows:



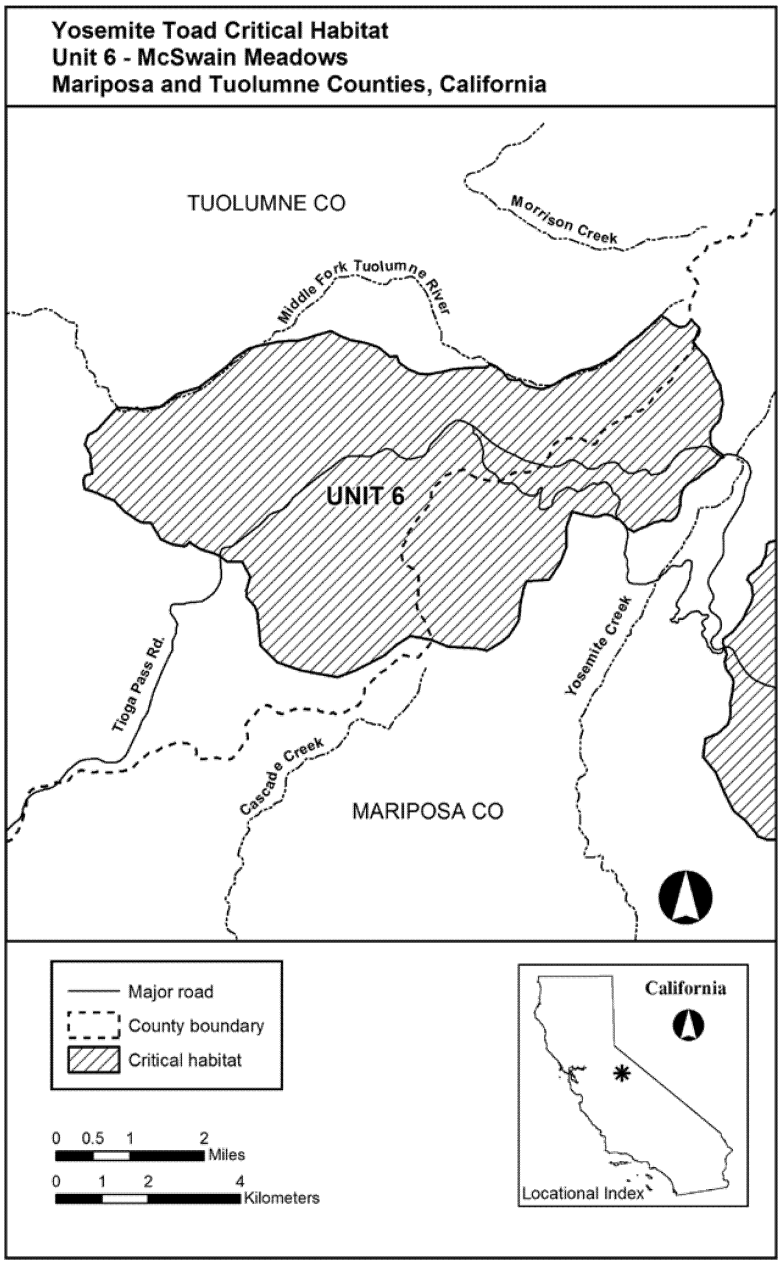
(9) Unit 4: Hoover Lakes, Mono and Tuolumne Counties, California. Map follows:



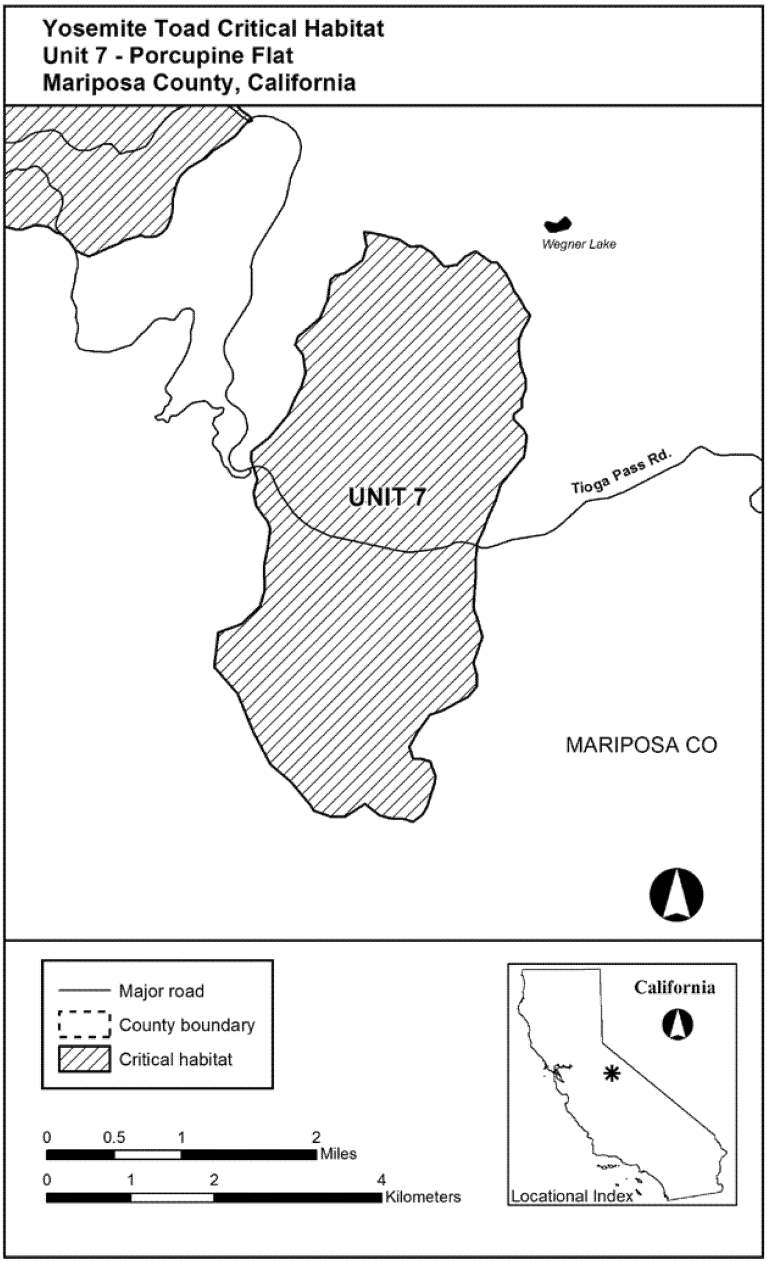
(10) Unit 5: Tuolumne Meadows/Cathedral, Madera, Mariposa, Mono, and Tuolumne Counties, California. Map follows:



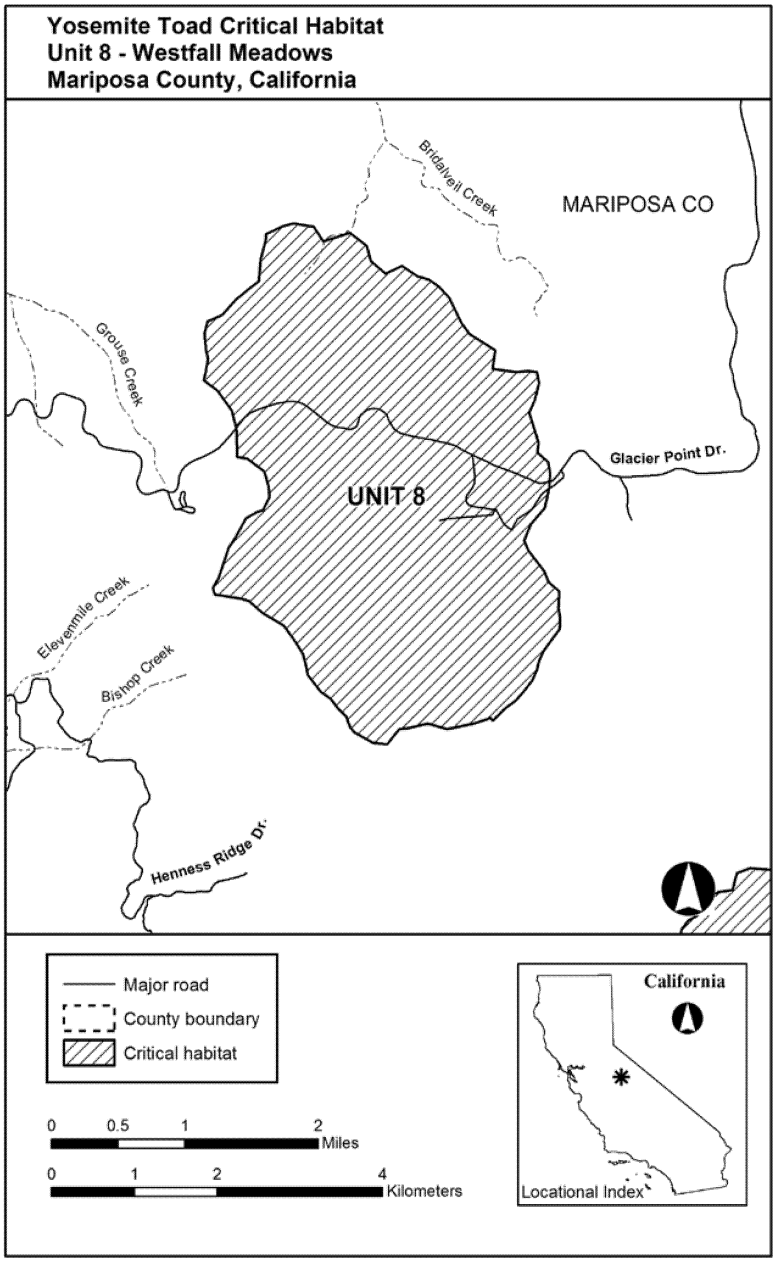
(11) Unit 6: McSwain Meadows, Mariposa and Tuolumne Counties, California. Map follows:



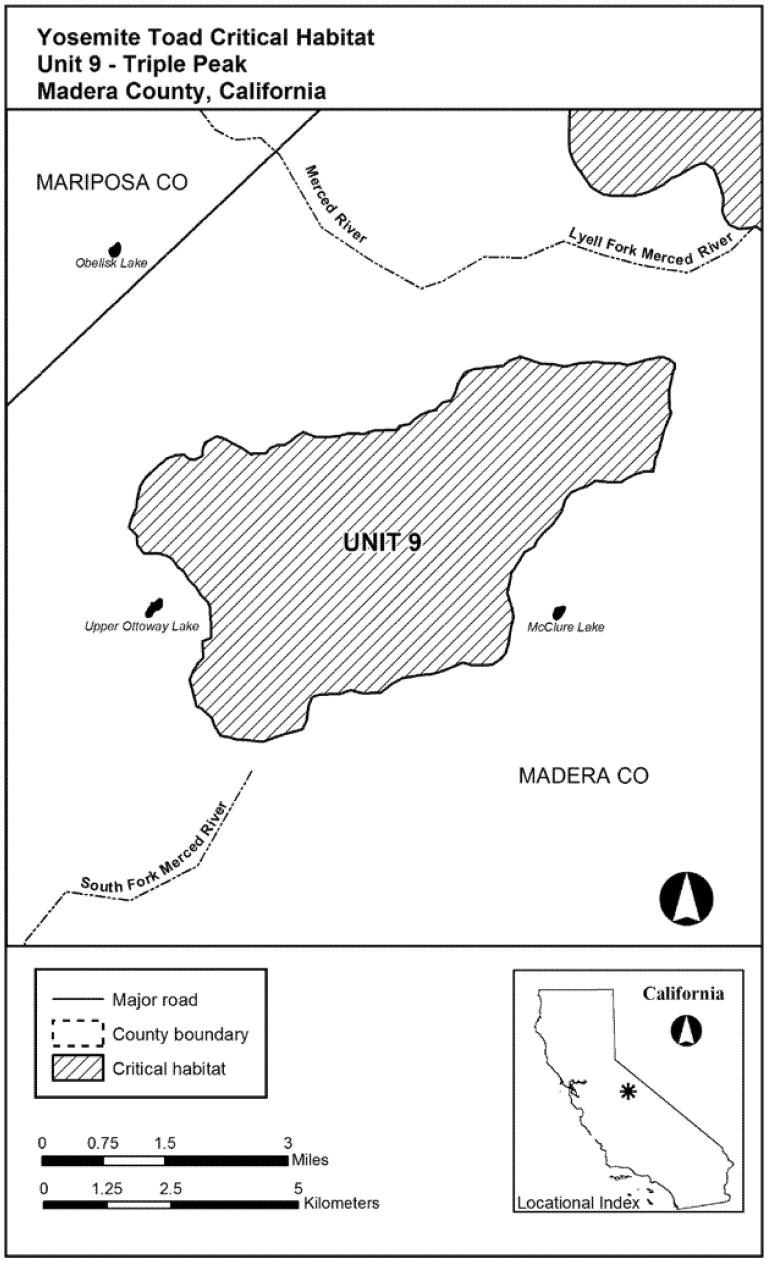
(12) Unit 7: Porcupine Flat, Mariposa County, California. Map follows:



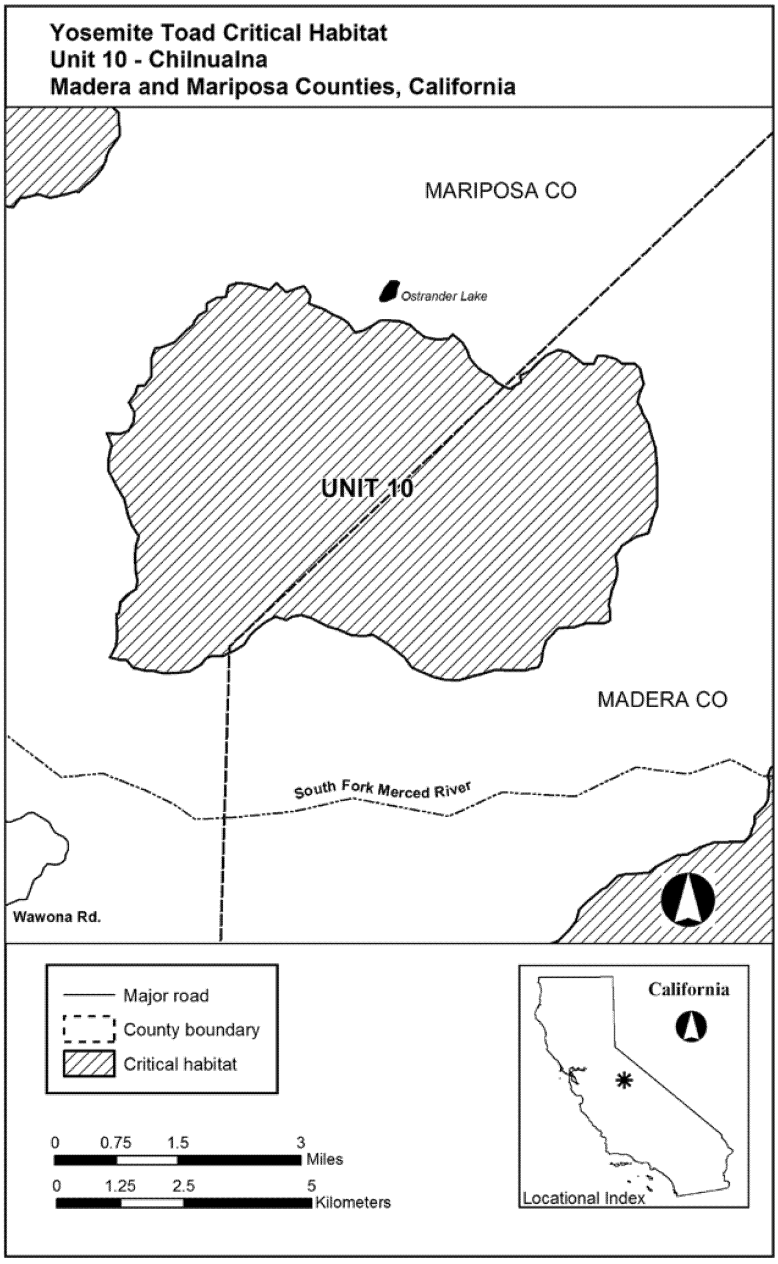
(13) Unit 8: Westfall Meadows, Mariposa County, California. Map follows:



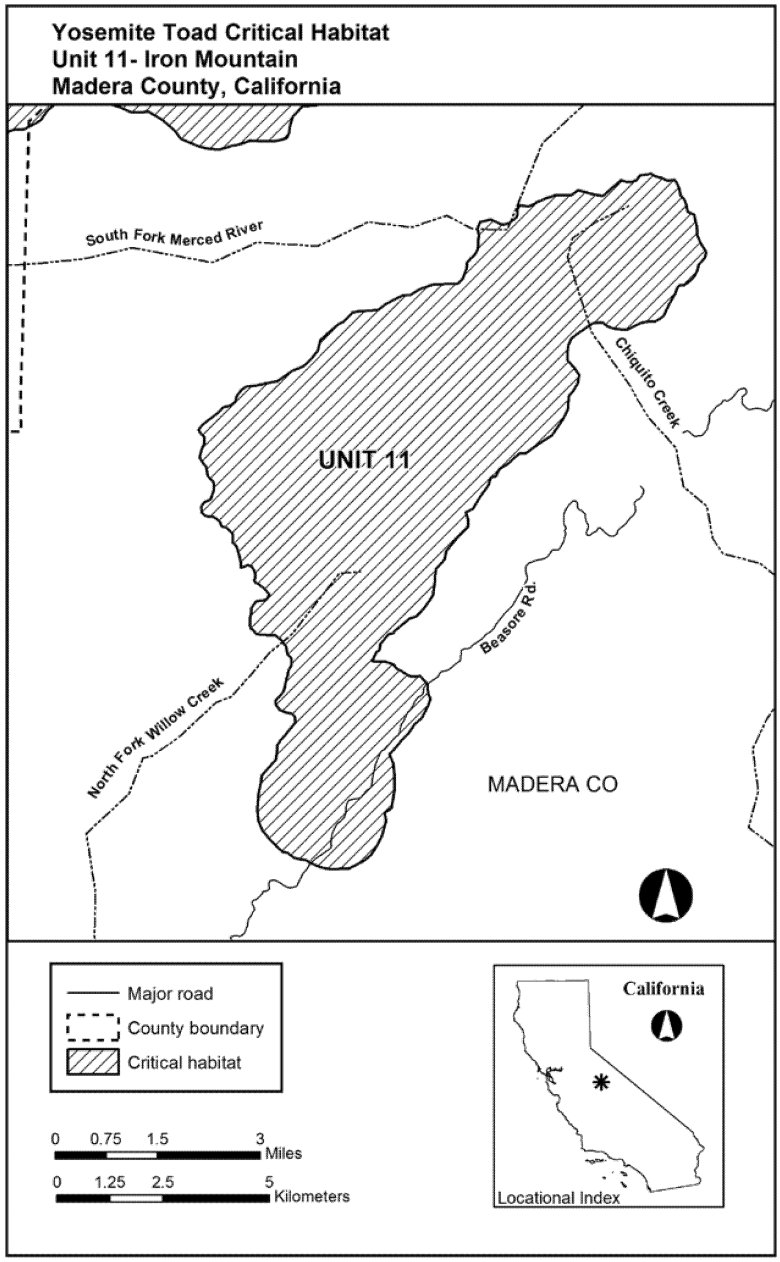
(14) Unit 9: Triple Peak, Madera County, California. Map follows:



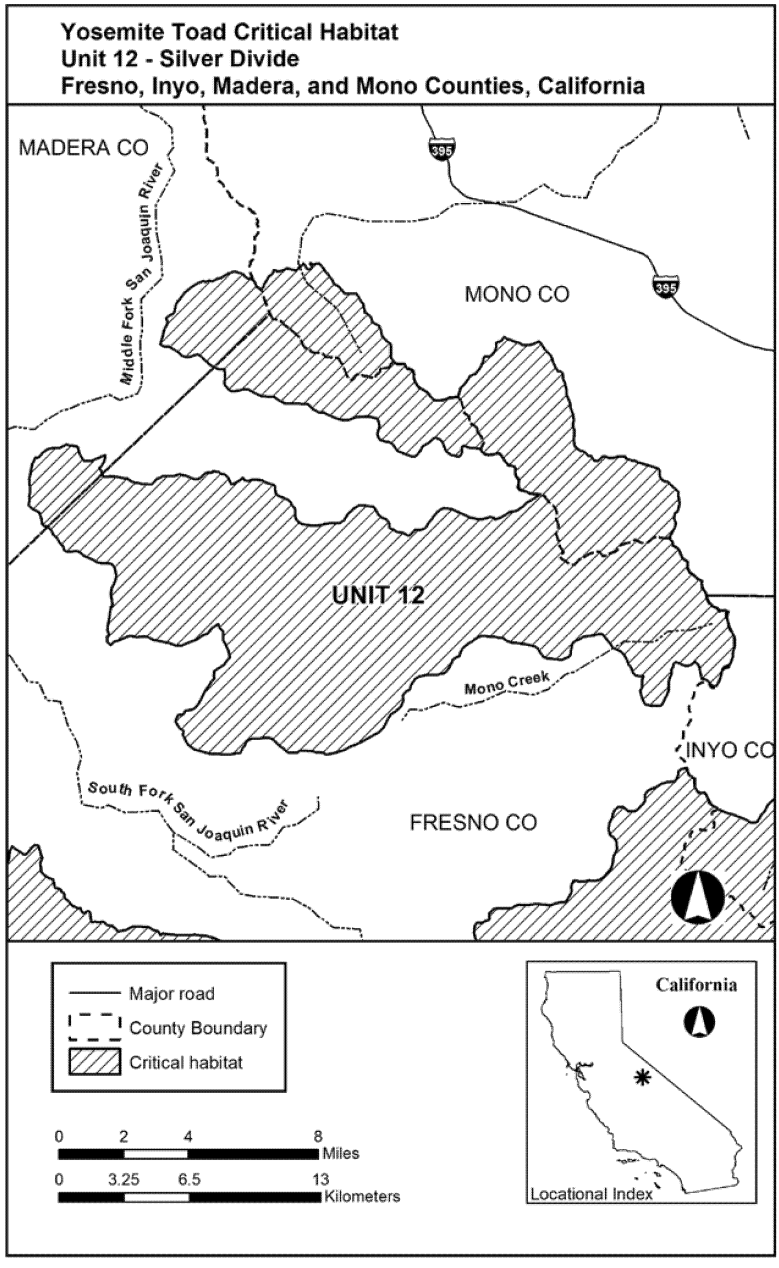
(15) Unit 10: Chilnualna, Madera and Mariposa Counties, California. Map follows:



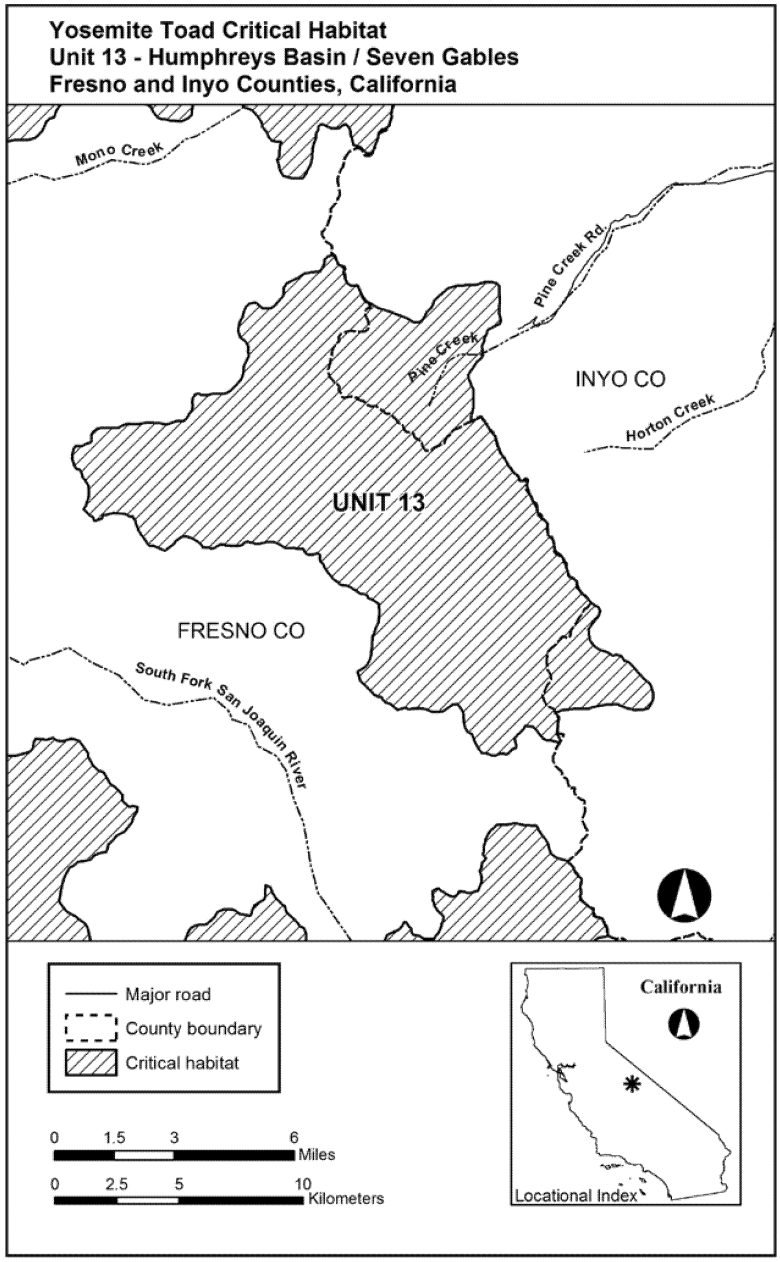
(16) Unit 11: Iron Mountain, Madera County, California. Map follows:



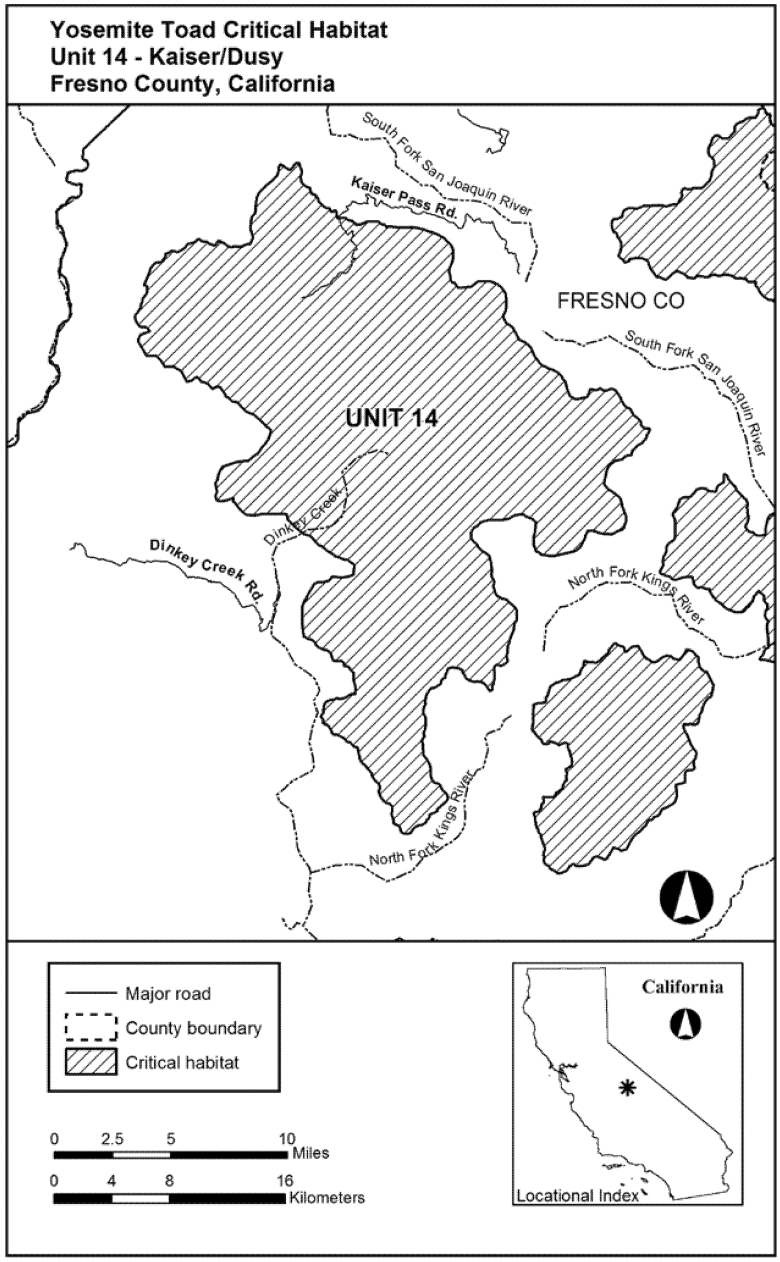
(17) Unit 12: Silver Divide, Fresno, Inyo, Madera, and Mono Counties, California. Map follows:



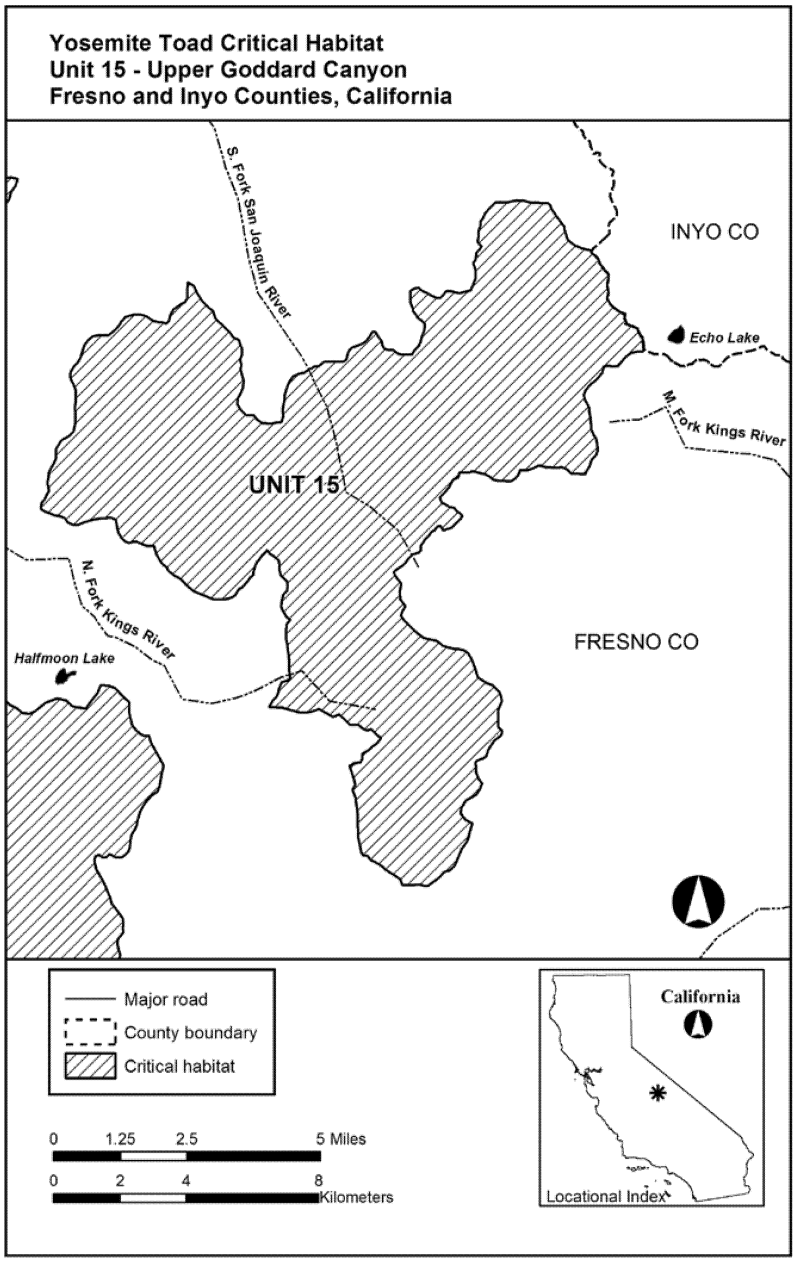
(18) Unit 13: Humphrys Basin/Seven Gables, Fresno and Inyo Counties, California. Map follows:



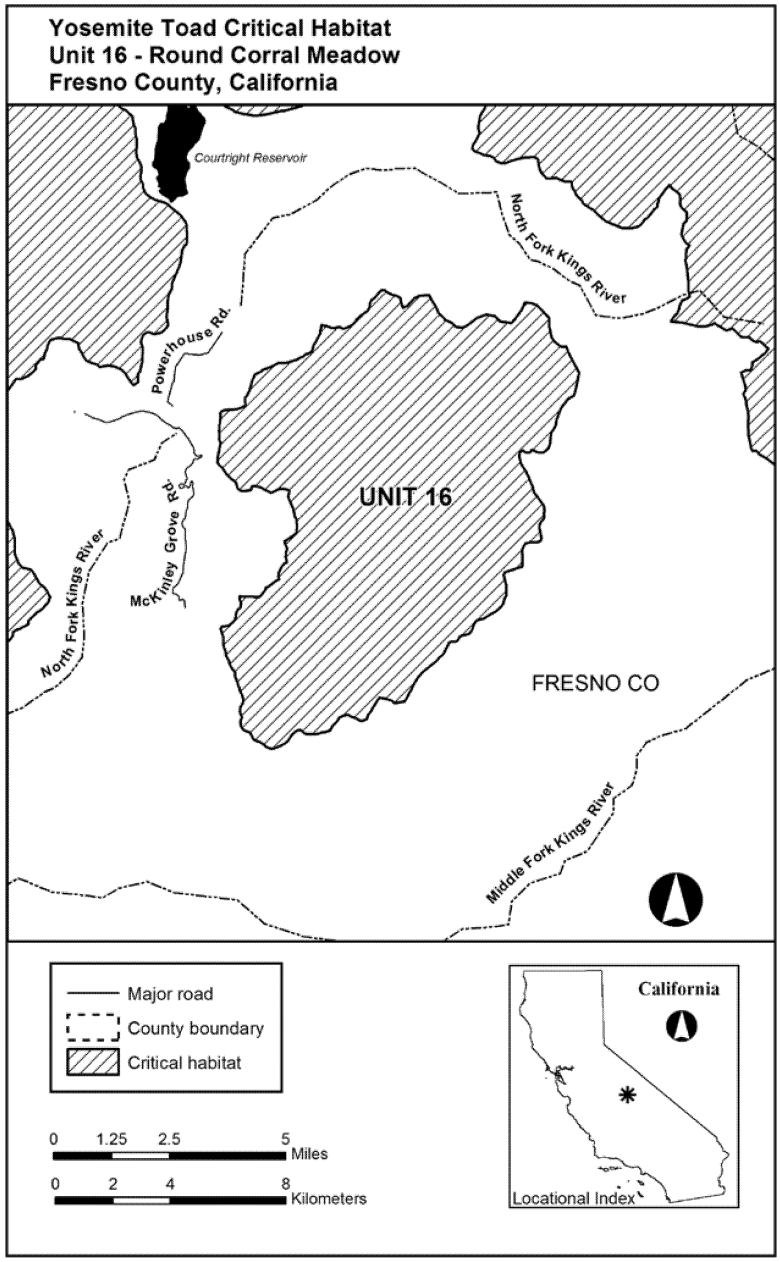
(19) Unit 14: Kaiser/Dusy, Fresno County, California. Map follows:



(20) Unit 15: Upper Goddard Canyon, Fresno and Inyo Counties, California. Map follows:



(21) Unit 16: Round Corral Meadow, Fresno County, California. Map follows:


Yosemite Toad Critical Habitat
Unit 16 - Round Corral Meadow
Fresno County, California
Courtright Reservoir
North Fork Kings River
Powerhouse Rd.
UNIT 16
McKinley Grove Rd.
North Fork Kings River
FRESNO CO
Middle Fork Kings River
Major road
County boundary
Critical habitat
0 1.25 2.5 5 Miles
0 2 4 8 Kilometers
California
Locational Index

BLACK WARRIOR WATERDOG (*Necturus alabamensis*)

(1) Critical habitat units are depicted for Blount, Etowah, Jefferson, Lawrence, Marshall, Tuscaloosa, Walker, and Winston Counties, Alabama, on the maps in this entry.

(2) Within these areas, the physical or biological features essential to the conservation of the Black Warrior waterdog, which describe a riverine system with habitat to support all life-history stages of the Black Warrior waterdog, consists of the following components:

(i) Geomorphically stable, medium to large streams (typically 4 meters (m) (13 feet (ft)) wide or greater) with:

(A) Substrate consisting of clay or bedrock with little sand, and containing abundant rock crevices, rock slabs, and leaf packs;

(B) Moderate water velocity; and

(C) Prey base of aquatic macroinvertebrates.

(ii) Water that lacks harmful levels of pollutants, including inorganic contaminants such as copper, arsenic, mercury, and cadmium; organic contaminants such as human and animal waste products; endocrine-disrupting chemicals; pesticides; nitrogen, potassium, and phosphorus fertilizers; and petroleum distillates.

(iii) Appropriate water quality parameters to support Black Warrior waterdog and primary prey base, including:

(A) Water temperature not exceeding 85° F;

(B) Dissolved oxygen 5.5 milligrams per liter (mg/L) or greater;

(C) Turbidity of an average monthly reading of 15 nephelometric turbidity units above background readings;

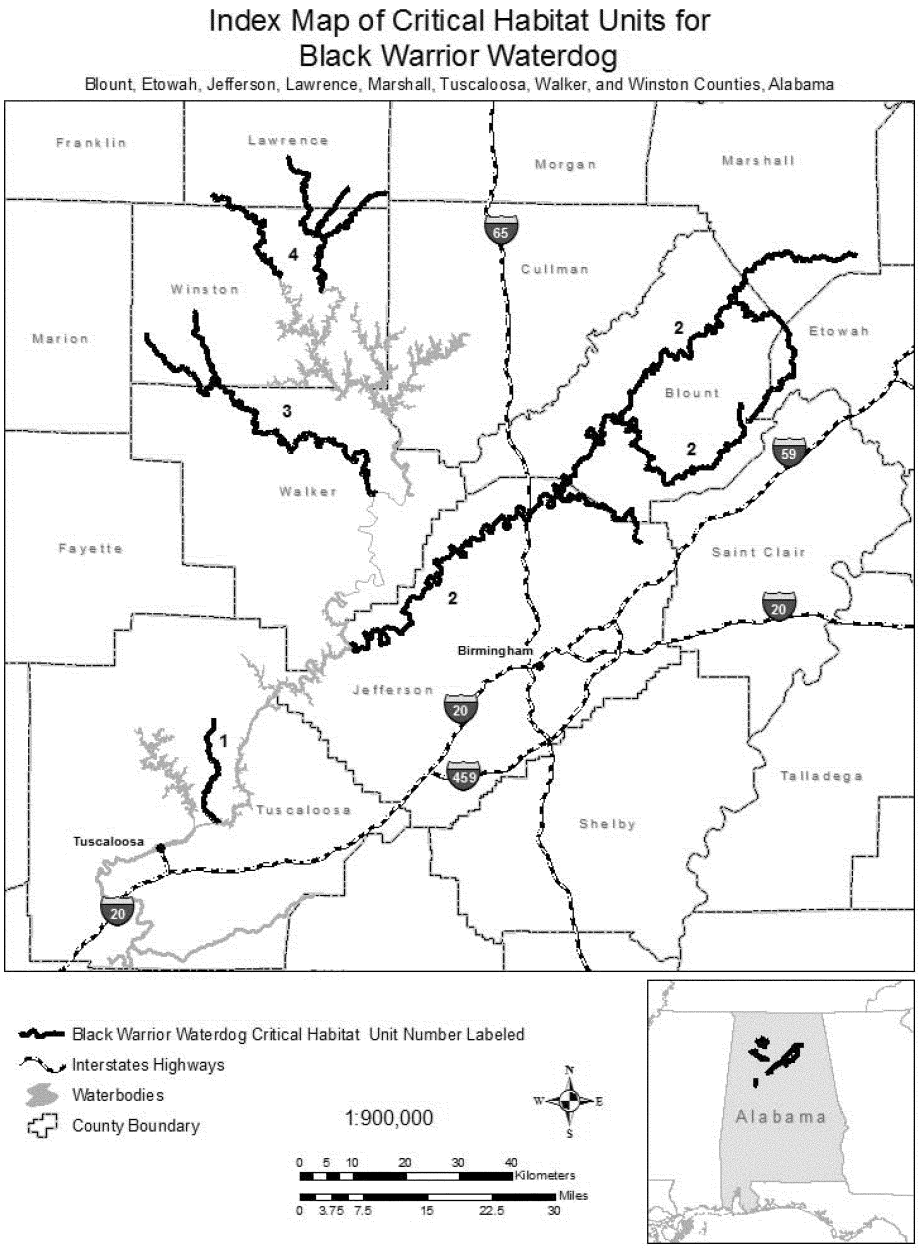
(D) 115 mg/L of total suspended solids or less; and

(E) A specific conductance of no greater than 225 microsiemens (μS) per centimeter at 80 °F.

(3) Critical habitat does not include manmade 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 February 2, 2018.

(4) *Critical habitat map units.* Data layers defining map units were created from the USGS National Hydrography Datasets High Resolution Flowline layer using Universal Transverse Mercator (UTM) Zone 16N coordinates. Segments were mapped using 1983 UTM Zone 16 projection. The maps in this entry, as modified by any accompanying regulatory text, establish the boundaries of the critical habitat designation. The coordinates or plot points or both on which each map is based are available to the public at the Service's internet site at *http://www.fws.gov/daphne/*, at *http://www.regulations.gov* under Docket No. FWS–R4–ES–2016–0031, and at the field office responsible for this designation. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2.

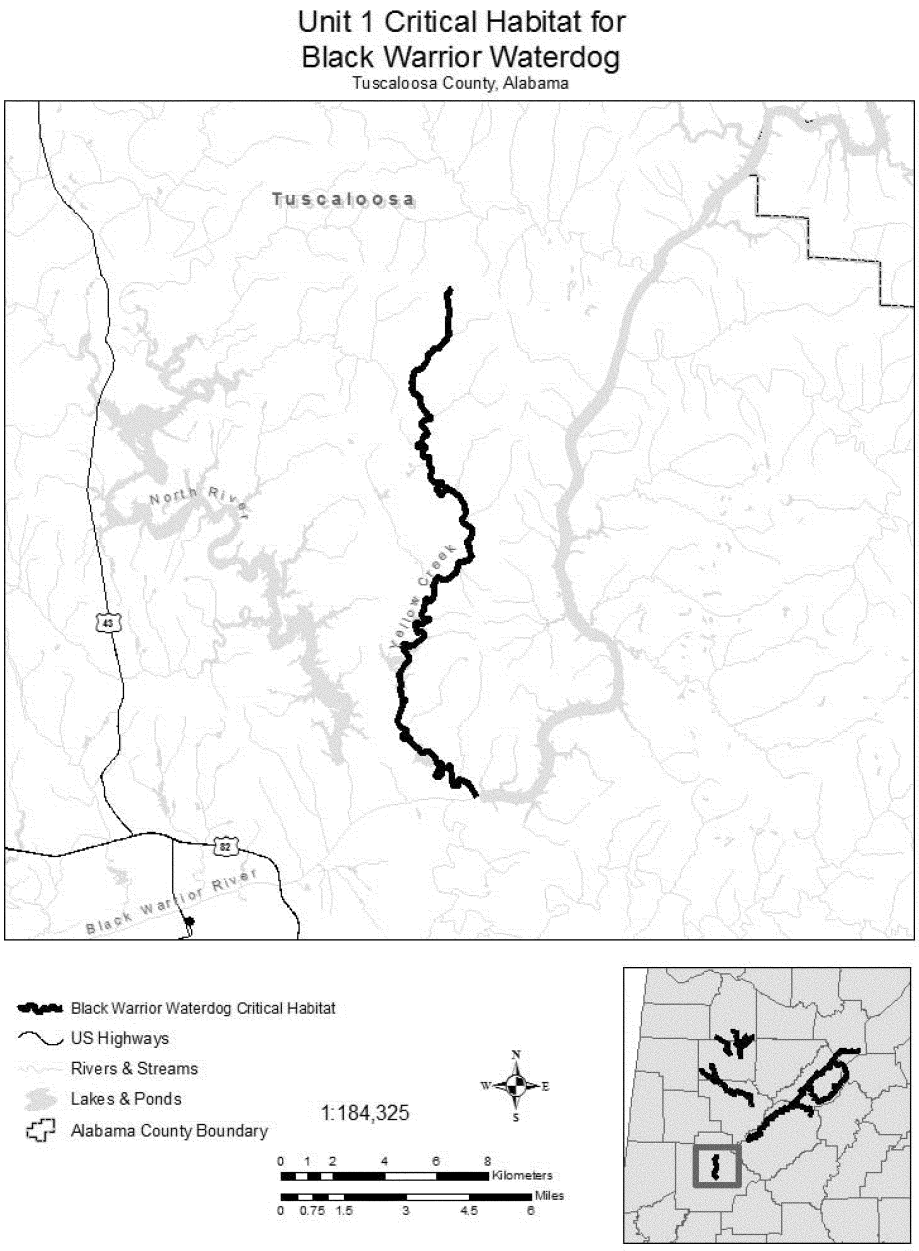
(5) *Note:* Index map follows:



(6) *Unit 1:* Yellow Creek; Tuscaloosa County, Alabama.

(i) *General description:* Unit 1 is approximately 30 rkm (19 rmi) of stream and river habitat from the headwaters of Yellow Creek to Holt Lake.

(ii) Map of Unit 1 follows:



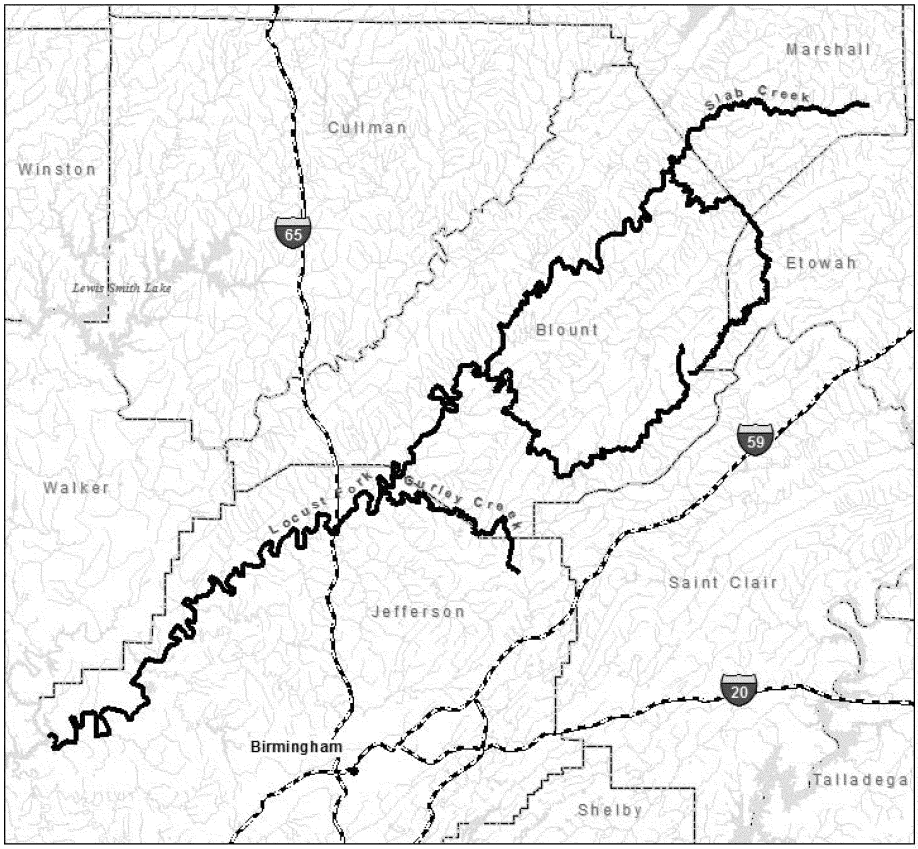
(7) *Unit 2:* Locust Fork; Blount, Etowah, Jefferson, and Marshall Counties, Alabama.

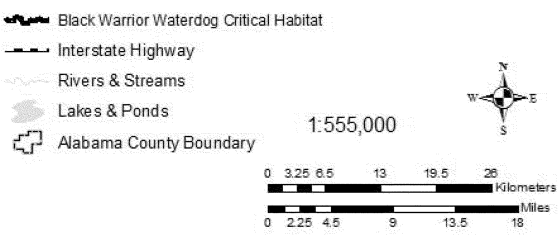
(i) *General description:* Unit 2 is approximately 391 rkm (243 rmi) of stream and river habitat from the headwaters of Locust Fork to

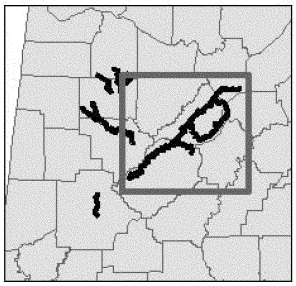
Bankhead Lake, from the headwaters of Slab Creek to the confluence of Locust Fork, from the headwaters of Blackburn Fork to the confluence of Locust Fork, and from the headwaters of Gurley Creek to the confluence of Locust Fork.

(ii) Map of Unit 2 follows:

Unit 2 Critical Habitat for
Black Warrior Waterdog
Blount, Etowah, Jefferson, and Marshall Counties, Alabama



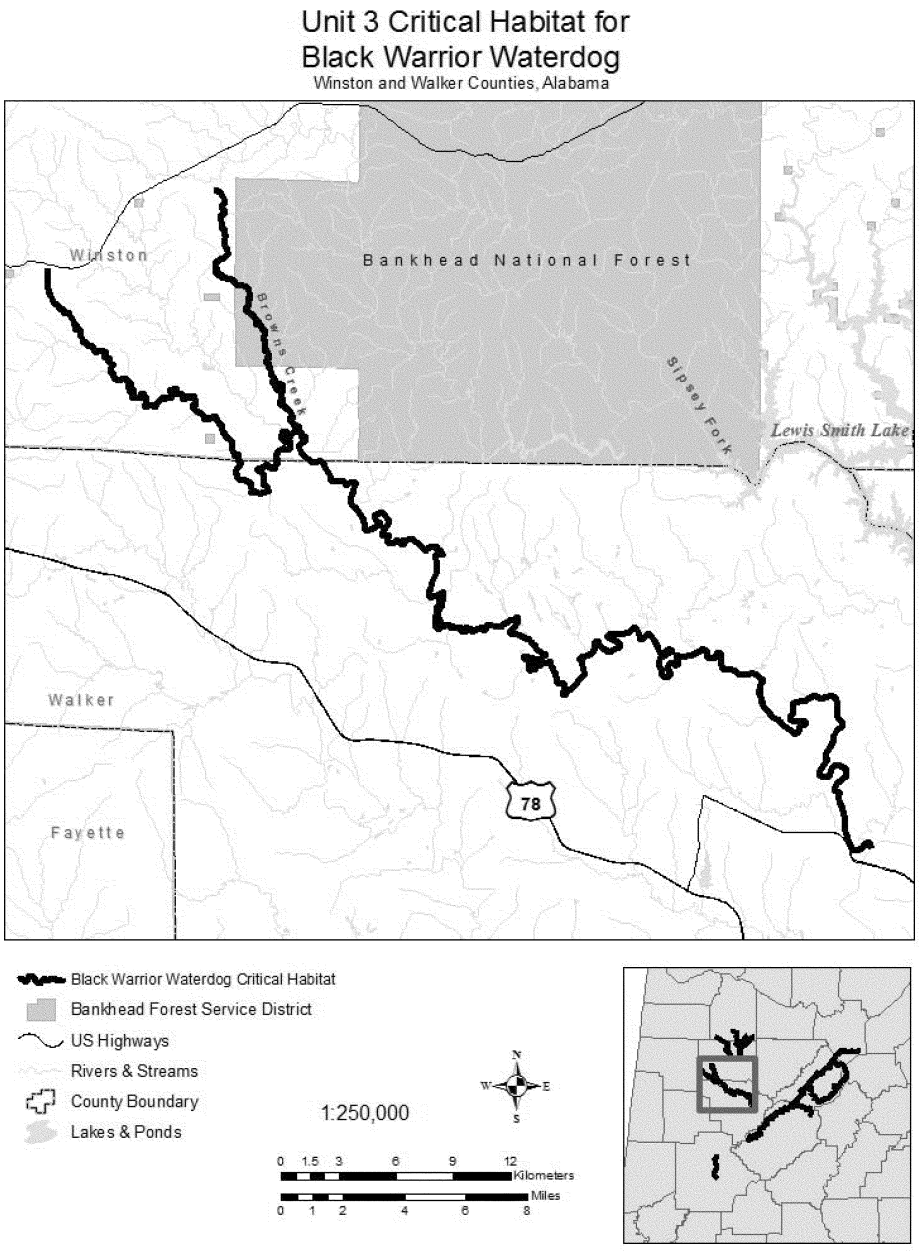




(9) *Unit 3:* Blackwater Creek; Walker and Winston Counties, Alabama.

(i) *General description:* Unit 3 consists of approximately 128 rkm (80 rmi) of stream and river habitat from the headwaters of Blackwater Creek to the confluence of Mulberry Fork, from the headwaters of Brown Creek to the confluence of Blackwater Creek.

(ii) Map of Unit 3 follows:

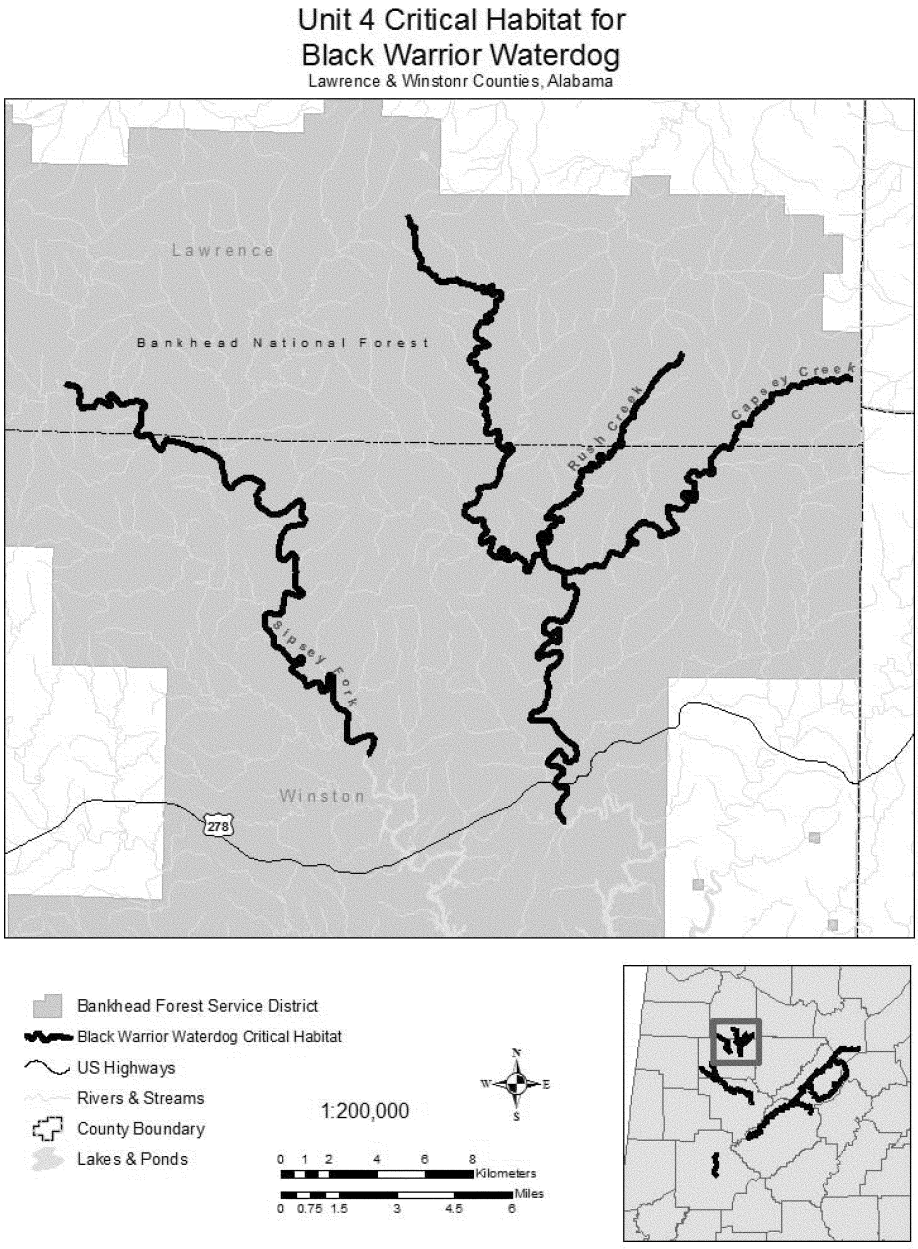


(10) *Unit 4:* Sipsey Fork; Lawrence and Winston Counties, Alabama.

(i) *General description:* Unit 4 consists of approximately 124 rkm (78 rmi) of stream and river habitat from the headwaters of Sipsey Fork to Lewis Smith Lake, from the headwaters of Brushy Creek to Lewis Smith Lake,

from the headwaters of Rush Creek to the confluence of Brushy Creek, and from the headwaters of Capsey Creek to the confluence of Brushy Creek.

(ii) Map of Unit 4 follows:



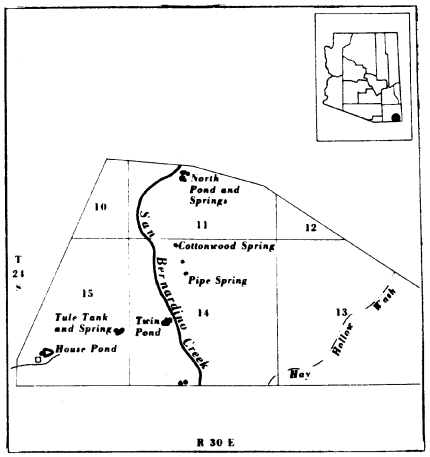
(e) *Fishes.*

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: The map provided is for informational purposes only. 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).

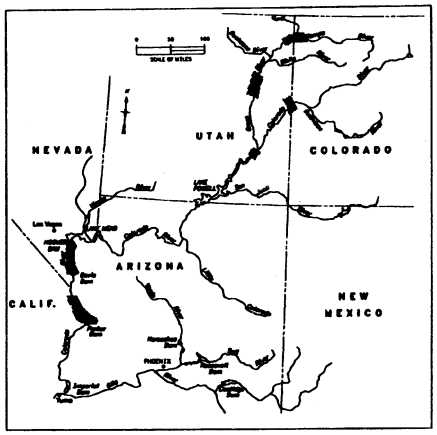
Utah: Garfield and San Juan Counties. The Colorado River from Brown Betty Rapid in T.30S., R.18E., sec. 34 (Salt Lake Meridian) to Imperial Canyon in T.31S., R.17E., sec. 28 (Salt Lake Meridian).

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.

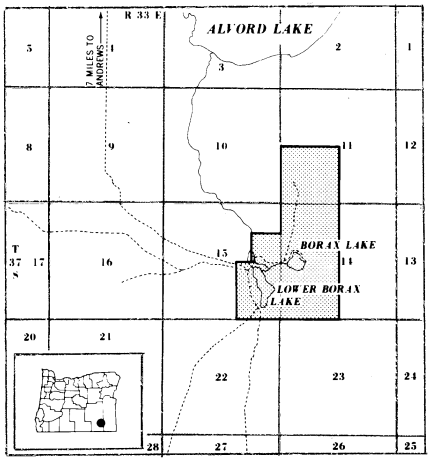
NOTE: The map provided is for informational purposes only. Map follows:



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: The map provided is for informational purposes only. 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

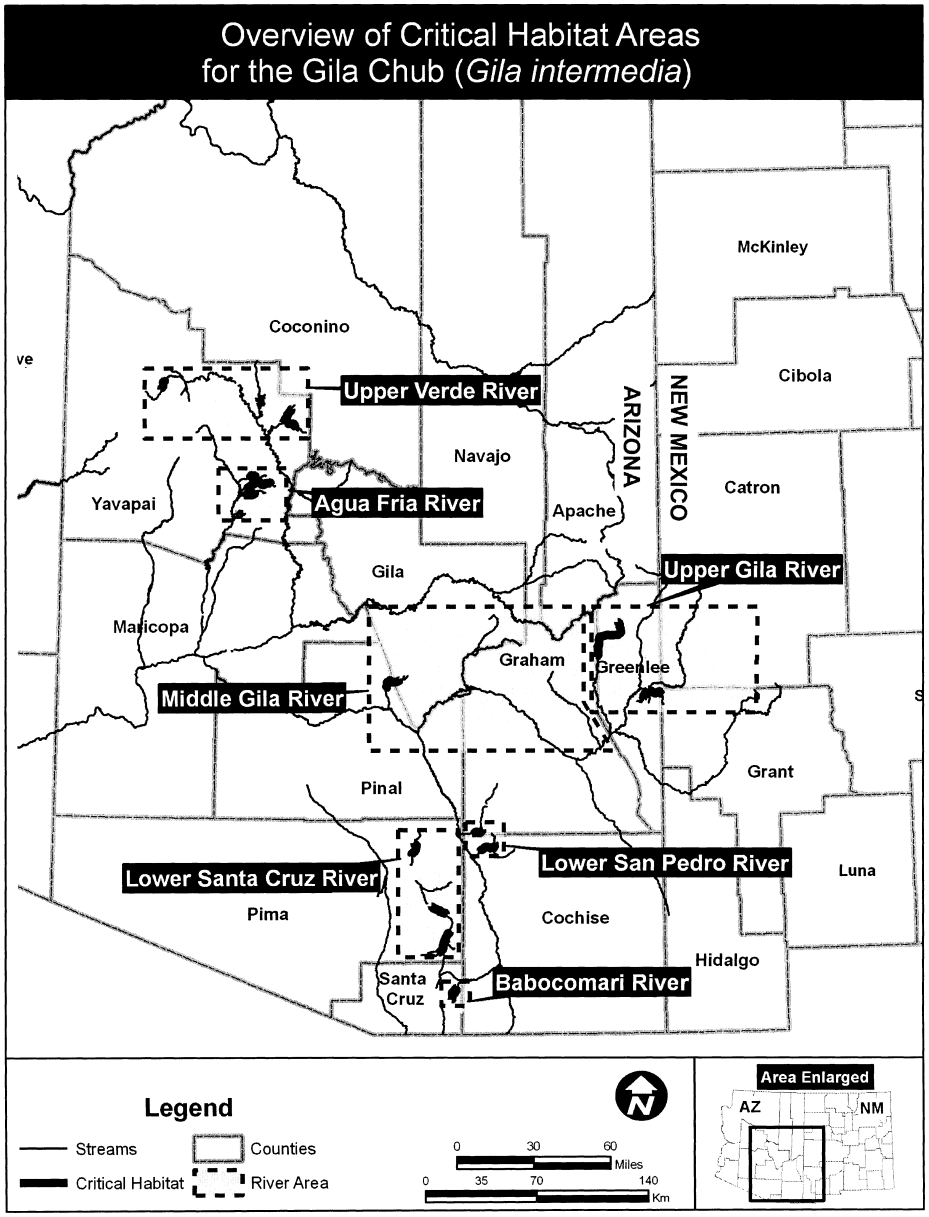
(vii) Streams that maintain a natural flow pattern including periodic flooding.

(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.

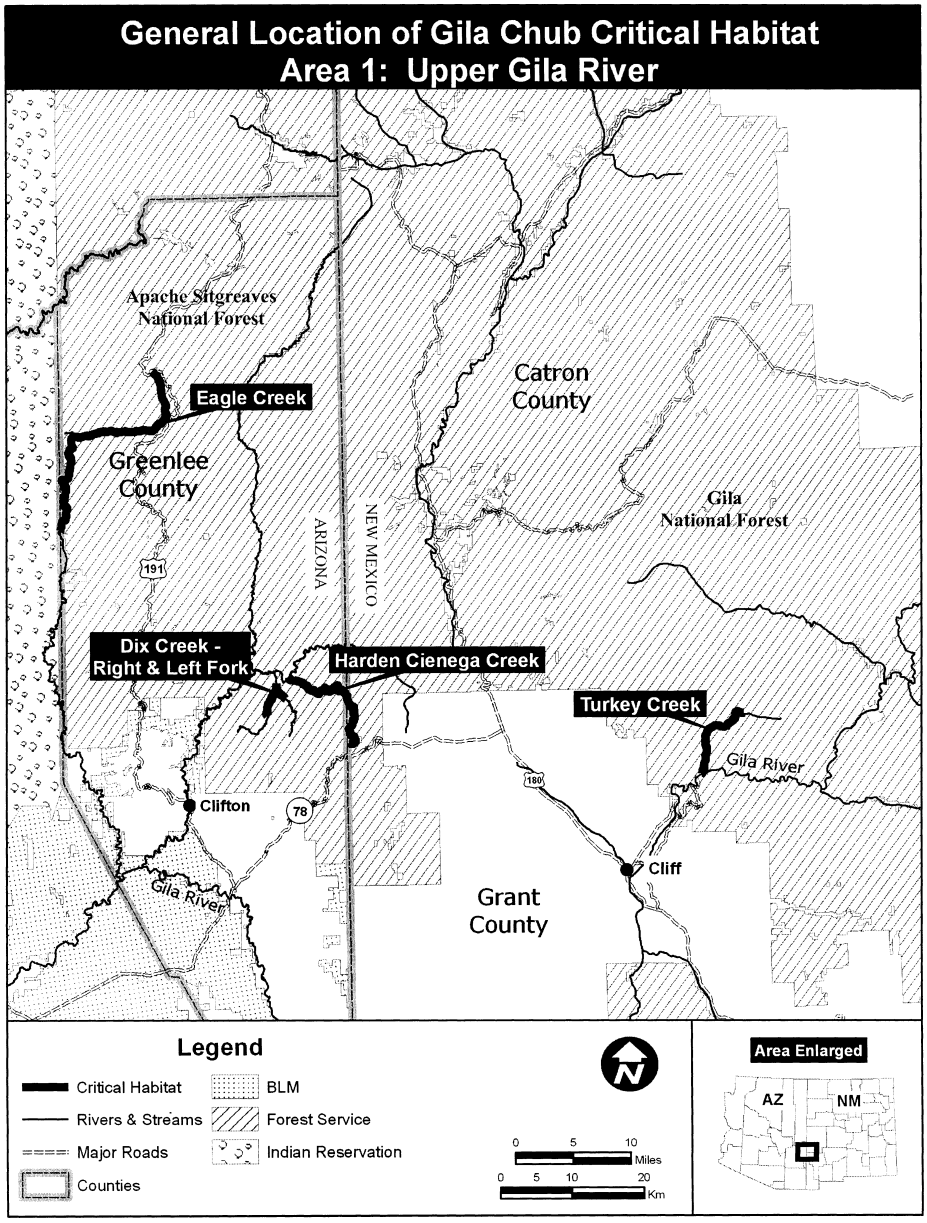
(ii) Eagle Creek and East Eagle Creek: 39.2 km (24.4 mi) of creek extending from its confluence with an unnamed tributary at T1N,

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.

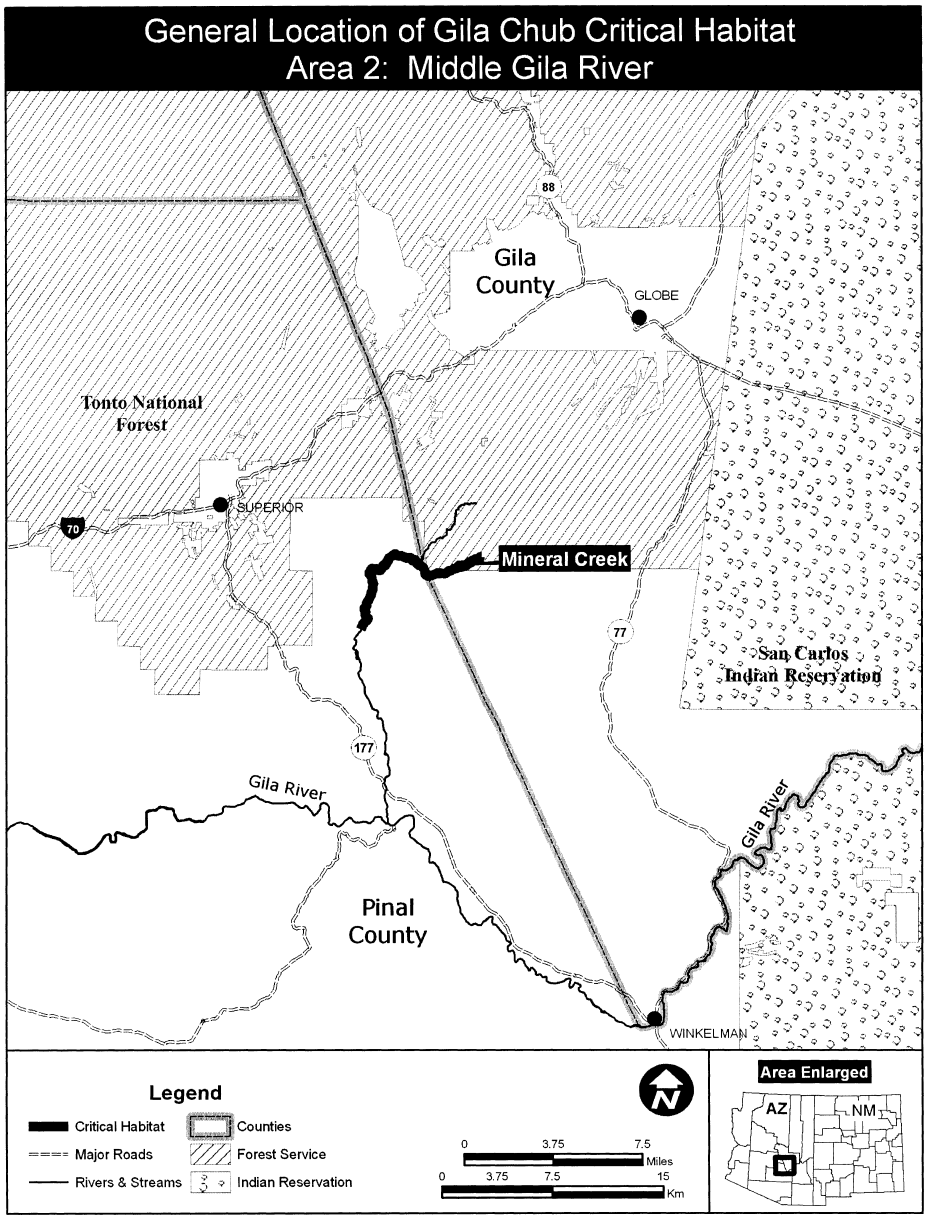
(v) Map of Area 1, Gila River, (Map 2) follows:



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



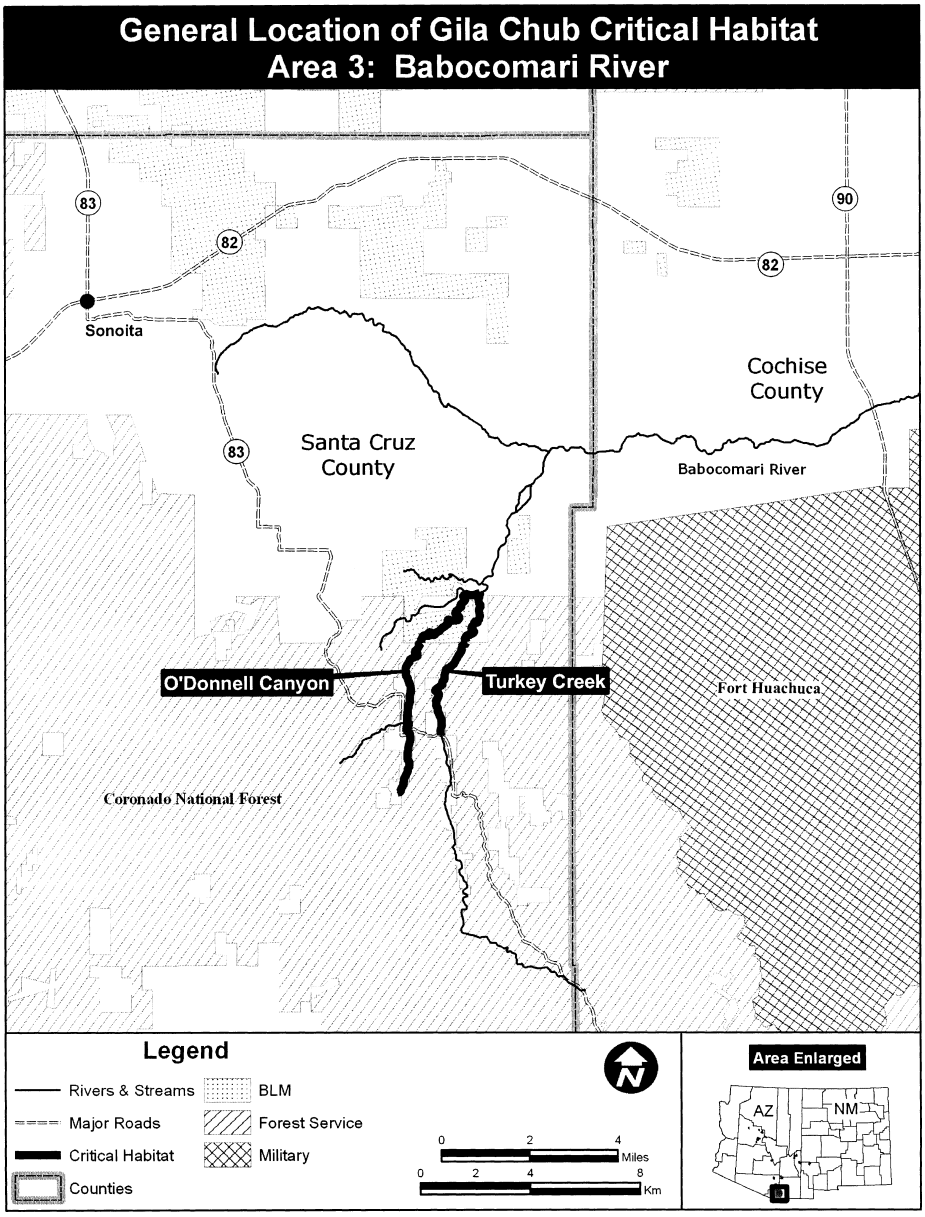
(9) Area 3: Babocomari River—Santa Cruz County, Arizona.

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



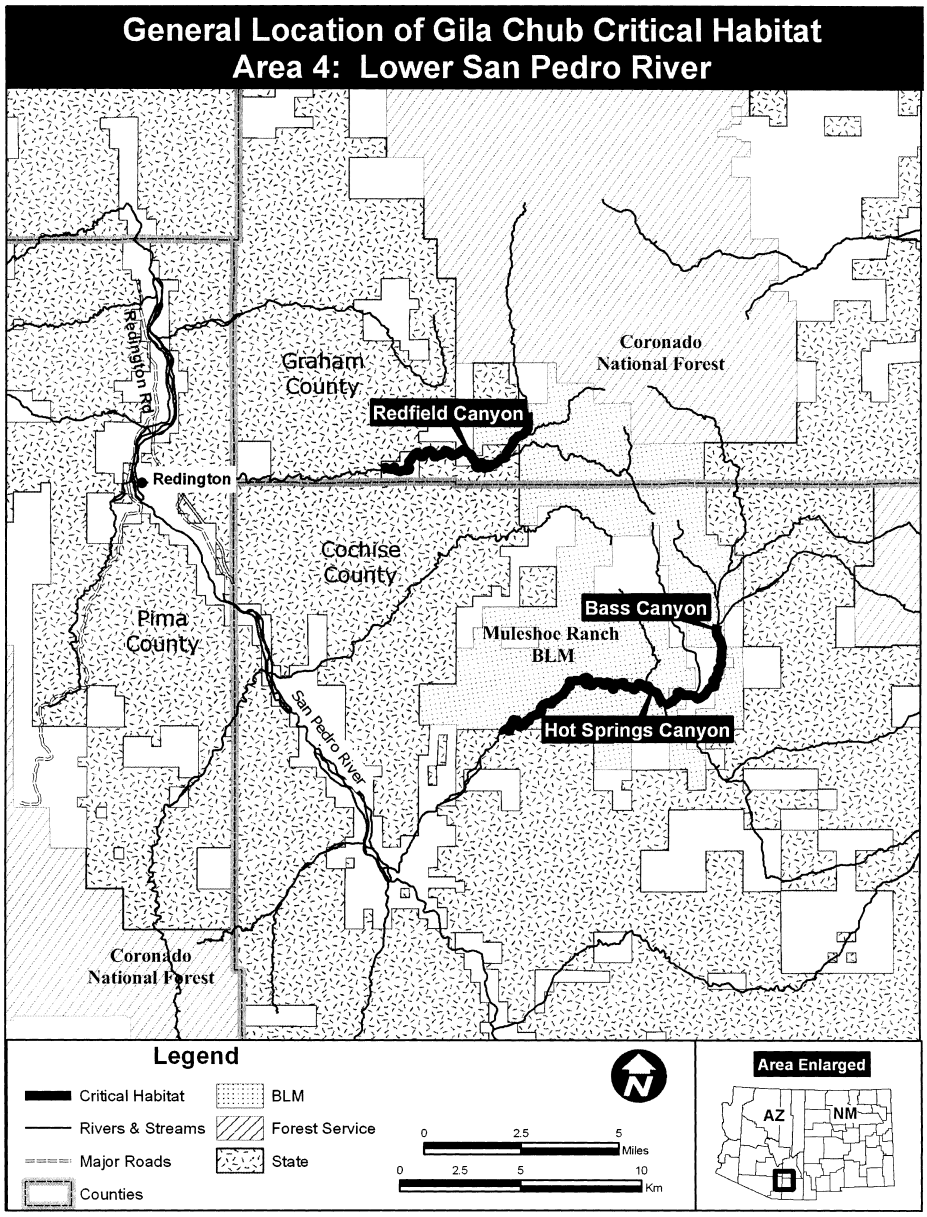
(10) Area 4: Lower San Pedro River—Cochise and Graham Counties, Arizona.

(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) 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

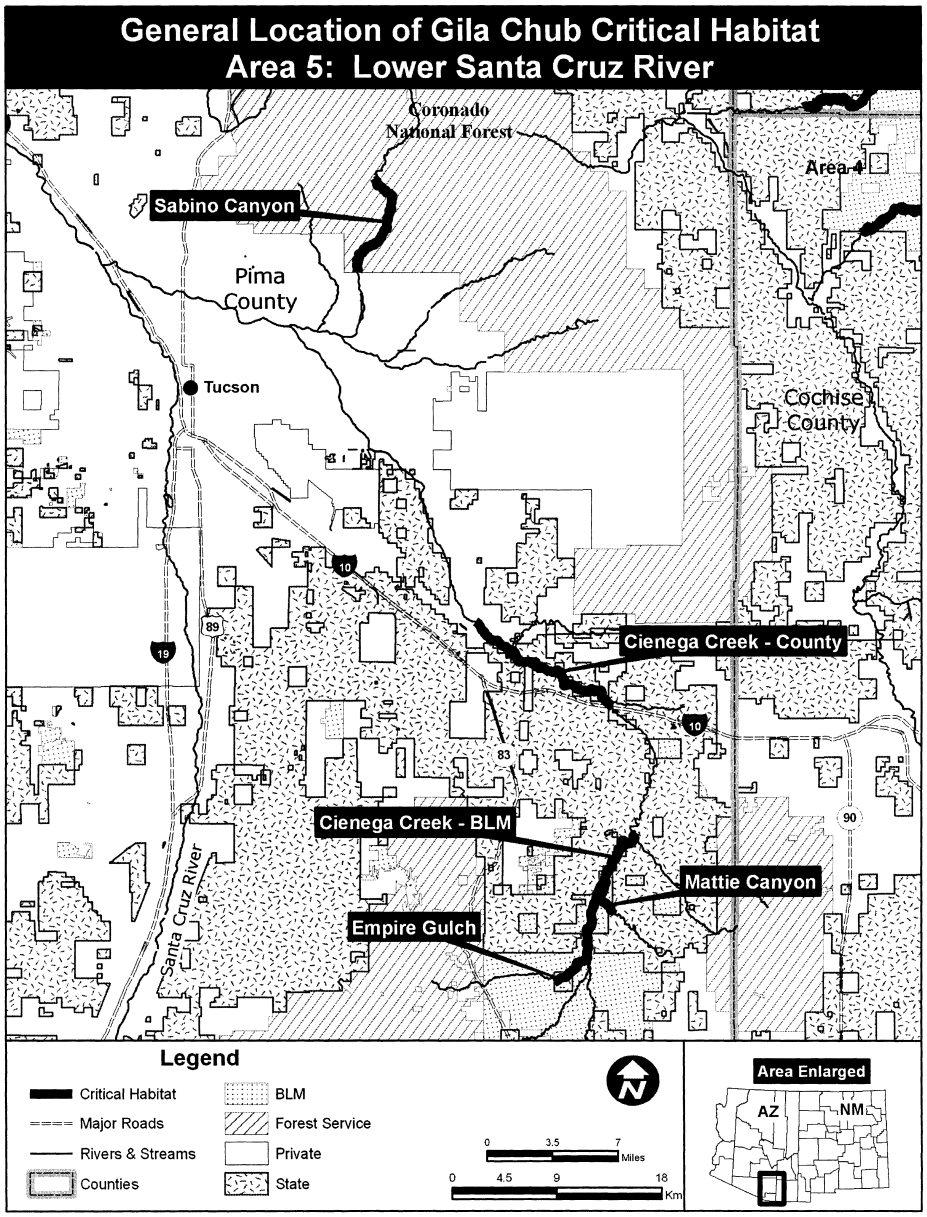
T19S, R17E, sec. 3 SE¼. Land ownership: Bureau of Land Management and State.

(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) 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.

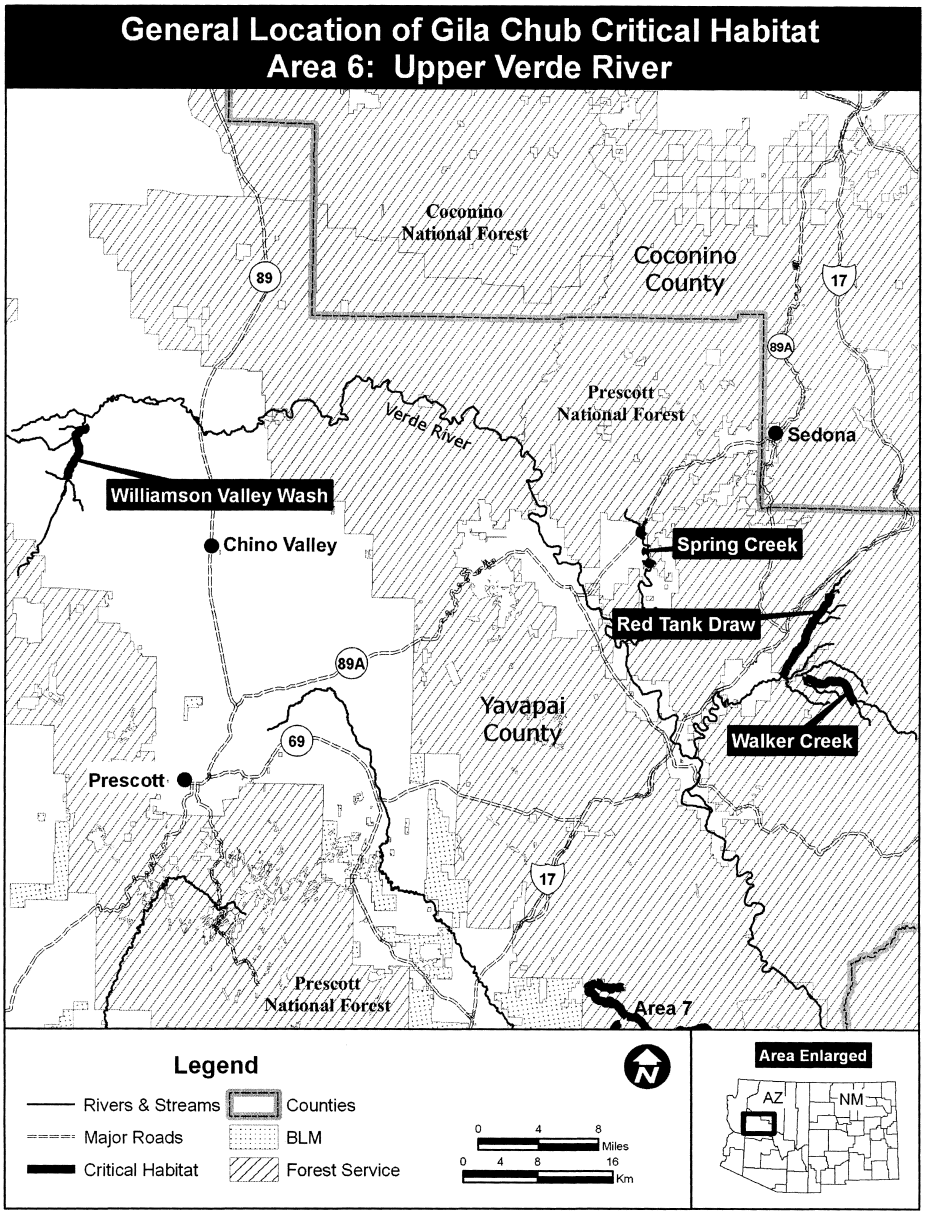
(ii) Red Tank Draw: 11.1 km (6.9 mi) of creek extending from the National Park Service boundary just upstream of its confluence with Wet Beaver Creek in T15N, R6E,

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) 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.

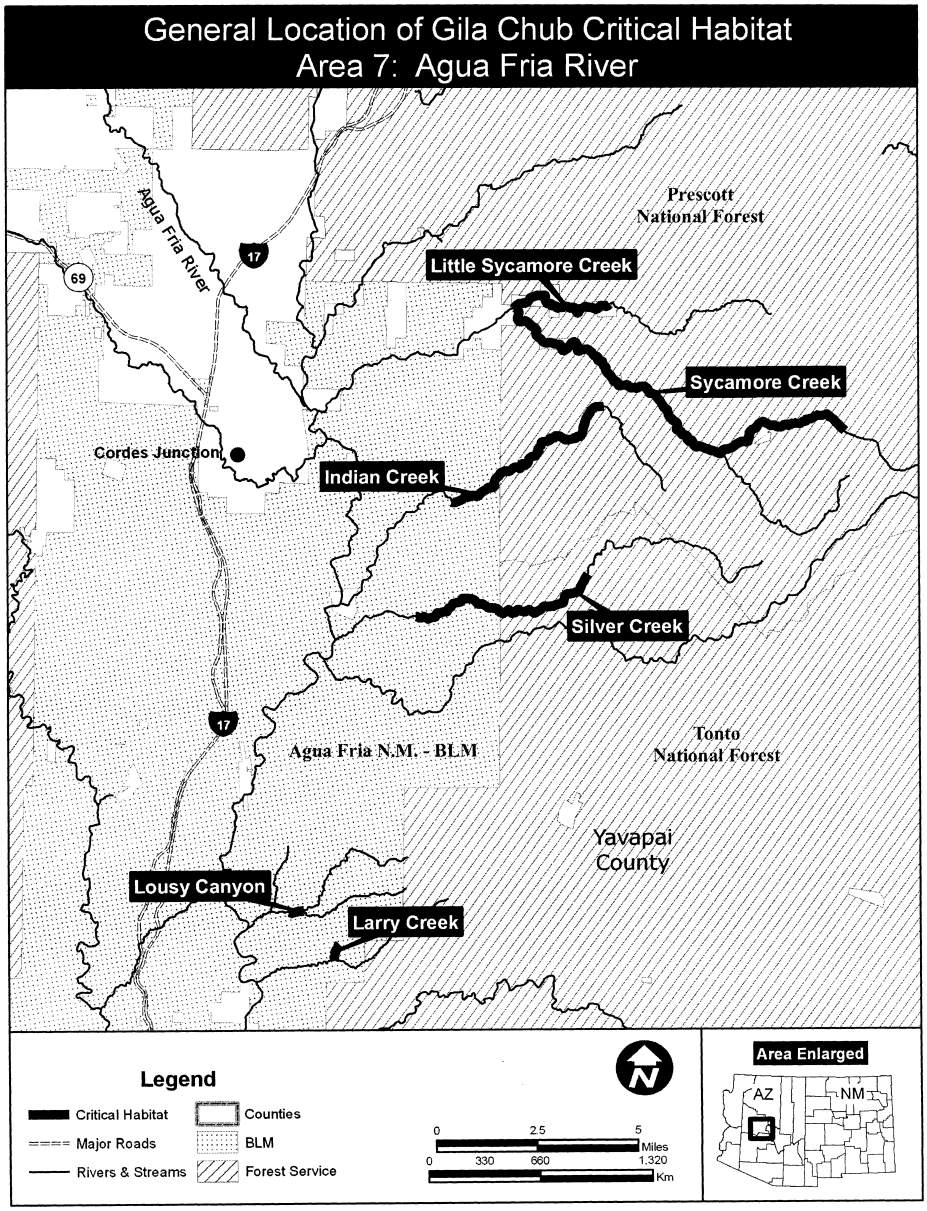
(iii) Indian Creek: 8.4 km (5.2 mi) of creek extending from T11N, R3E, sec. 35 NE¼ to Upper Water Springs in T11N, R4E, sec. 16 SE¼. Land ownership: Bureau of Land Management, Prescott National Forest, and private.

(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) 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).

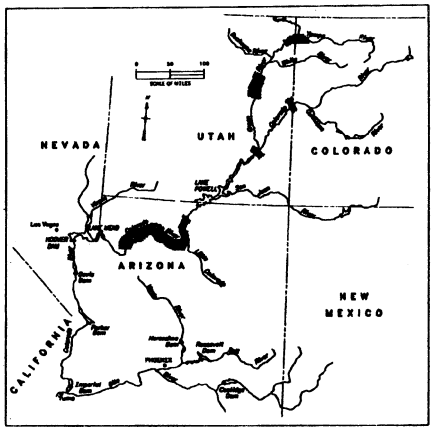
Utah: Garfield and San Juan Counties. The Colorado River from Brown Betty Rapid River in T.30S., R.18E., sec. 34 (Salt Lake Meridian) to Imperial Canyon in T.31S., R.17E., sec. 28 (Salt Lake Meridian).

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.

NOTE: The map provided is for informational purposes only. Map follows:

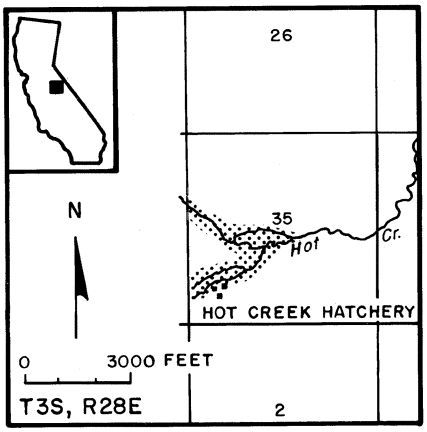


OWENS TUI CHUB (*Gila bicolor snyderi*)

California, Mono County.

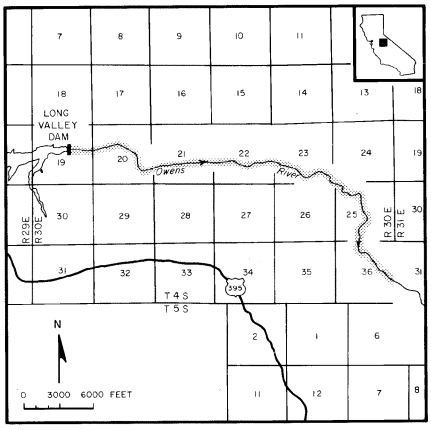
1. Hot Creek, adjacent springs and their outflows in the vicinity of Hot Creek Hatchery, and 50 feet of riparian habitat on all sides of the creek and springs in T3S, R28E, SW¼ Section 35.

NOTE: The map provided is for informational purposes only. 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: The map provided is for informational purposes only. 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.

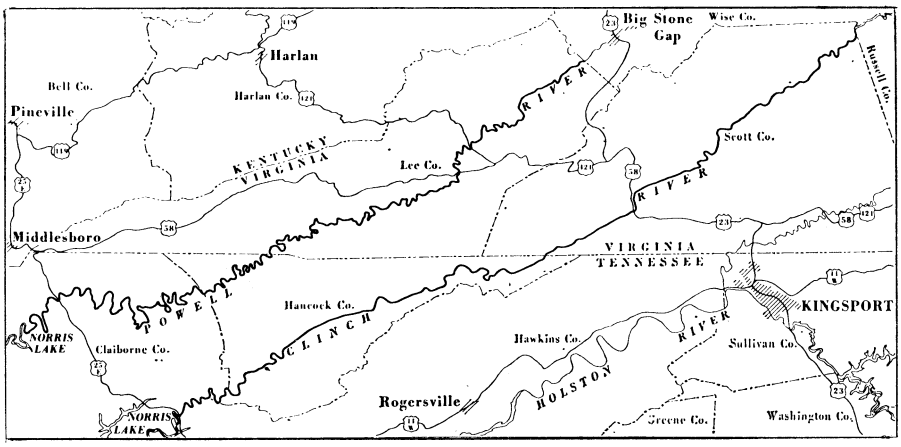
SLENDER CHUB (*Erimystax=(Hybopsis) cahni*)

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: The map provided is for informational purposes only. 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:

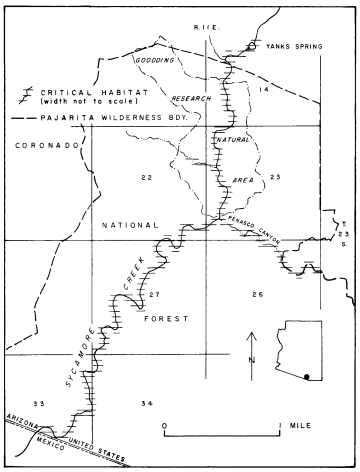
1. Sycamore Creek, and a riparian zone 25 feet wide along each side of the creek, from Yank's Spring downstream approximately 5 stream miles to the International Border with Mexico within sections 14, 22, 23, 27, 33, and 34, T. 23 S.; R. 11 E.

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: The map provided is for informational purposes only. Map follows:



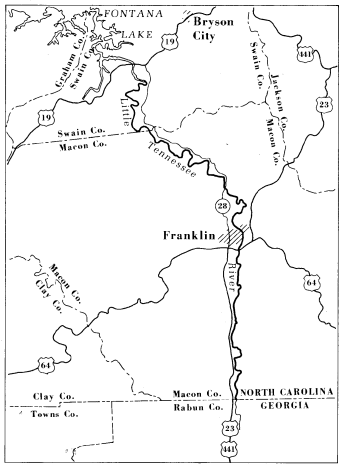
Known primary constituent elements include clean permanent water with pools and intermediate riffle areas and/or intermittent pools maintained by bedrock or by subsurface flow in areas shaded by canyon walls.

SPOTFIN CHUB (*Erimonax monachus*)

North Carolina. Macon and Swain Counties. Little Tennessee River, main channel

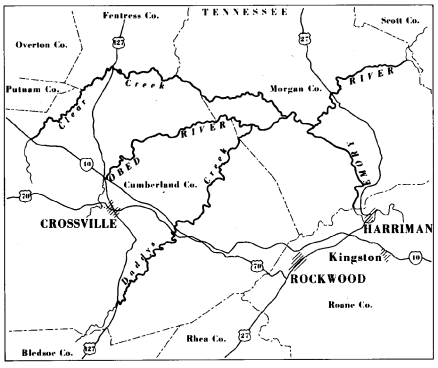
from the backwaters of Fontana Lake upstream to the North Carolina-Georgia State line.

NOTE: The map provided is for informational purposes only. 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.

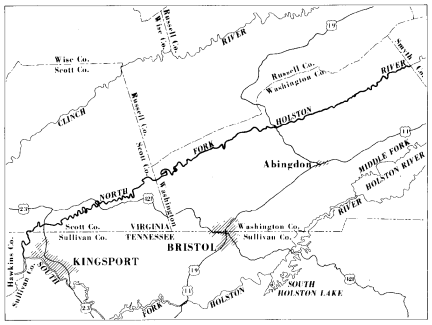
NOTE: The map provided is for informational purposes only. Map follows:



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: The map provided is for informational purposes only. 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

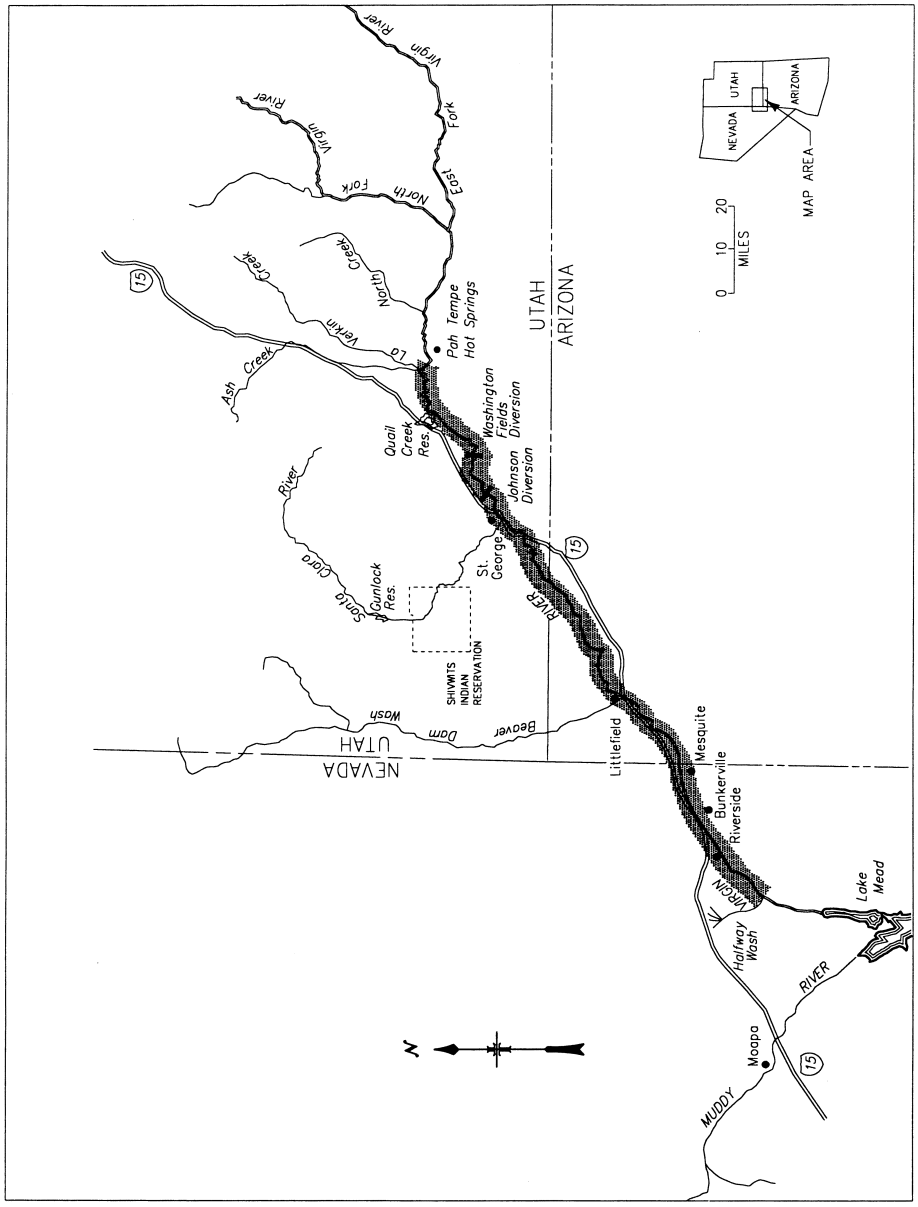
2. areas with slow to moderate velocities, within deep runs or pools, with predominately sand substrates, particularly habitats which contain boulders or other instream cover.

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.

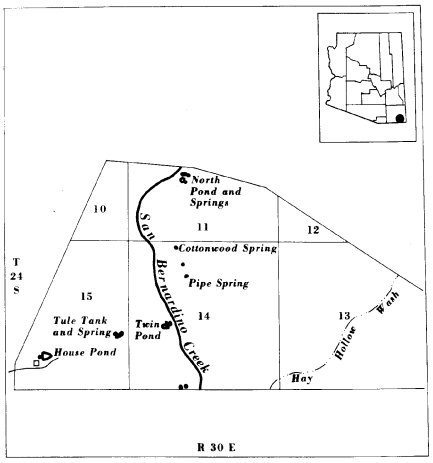
NOTE: The map provided is for informational purposes only. Map follows:



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: The map provided is for informational purposes only. Map follows:



ASH MEADOWS SPECKLED DACE (*Rhinichthys osculus nevadensis*)

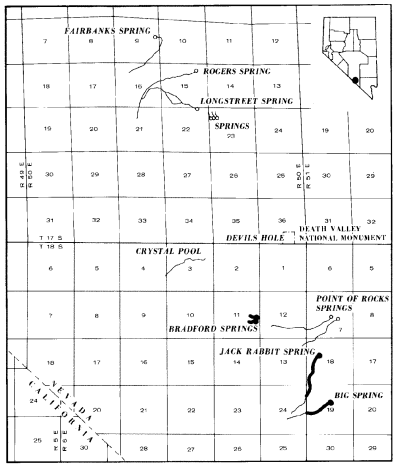
Nevada, Nye County: Each of the following springs and outflows plus surrounding land areas for a distance of 50 meters (164 feet) from these springs and outflows:

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: The map provided is for informational purposes only. Map follows:

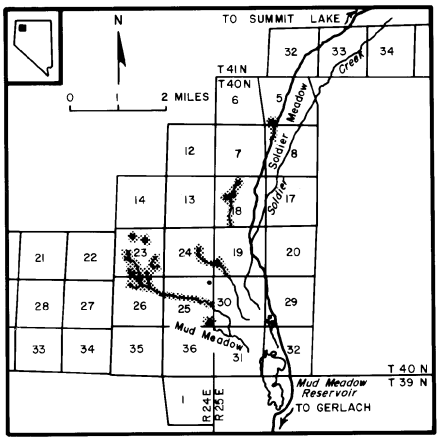


Known constituent elements include warm-water springs and their outflows and surrounding land areas that provide vegetation for cover and habitat for insects and other invertebrates on which the species feeds.

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: The map provided is for informational purposes only. 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.

LAUREL DACE (*Chrosomus saylori*)

(1) Critical habitat units are depicted for Bledsoe, Rhea, and Sequatchie Counties, Tennessee, on the maps below.

(2) Within these areas, the primary constituent elements of the physical and biological features essential to the conservation of the laurel dace consist of five components:

(i) Pool and run habitats of geomorphically stable, first- to second-order streams with riparian vegetation; cool, clean, flowing water; shallow depths; and connectivity between spawning, foraging, and resting sites to promote gene flow throughout the species' range.

(ii) Stable bottom substrates composed of relatively silt-free gravel, cobble, and slabrock boulder substrates with undercut banks

and canopy cover. Relatively silt-free is defined for the purpose of this rule as silt or fine sand within interstitial spaces of substrates in amounts low enough to have minimal impact to the species.

(iii) An instream flow regime (magnitude, frequency, duration, and seasonality of discharge over time) sufficient to provide permanent surface flows, as measured during years with average rainfall, and to maintain benthic habitats utilized by the species.

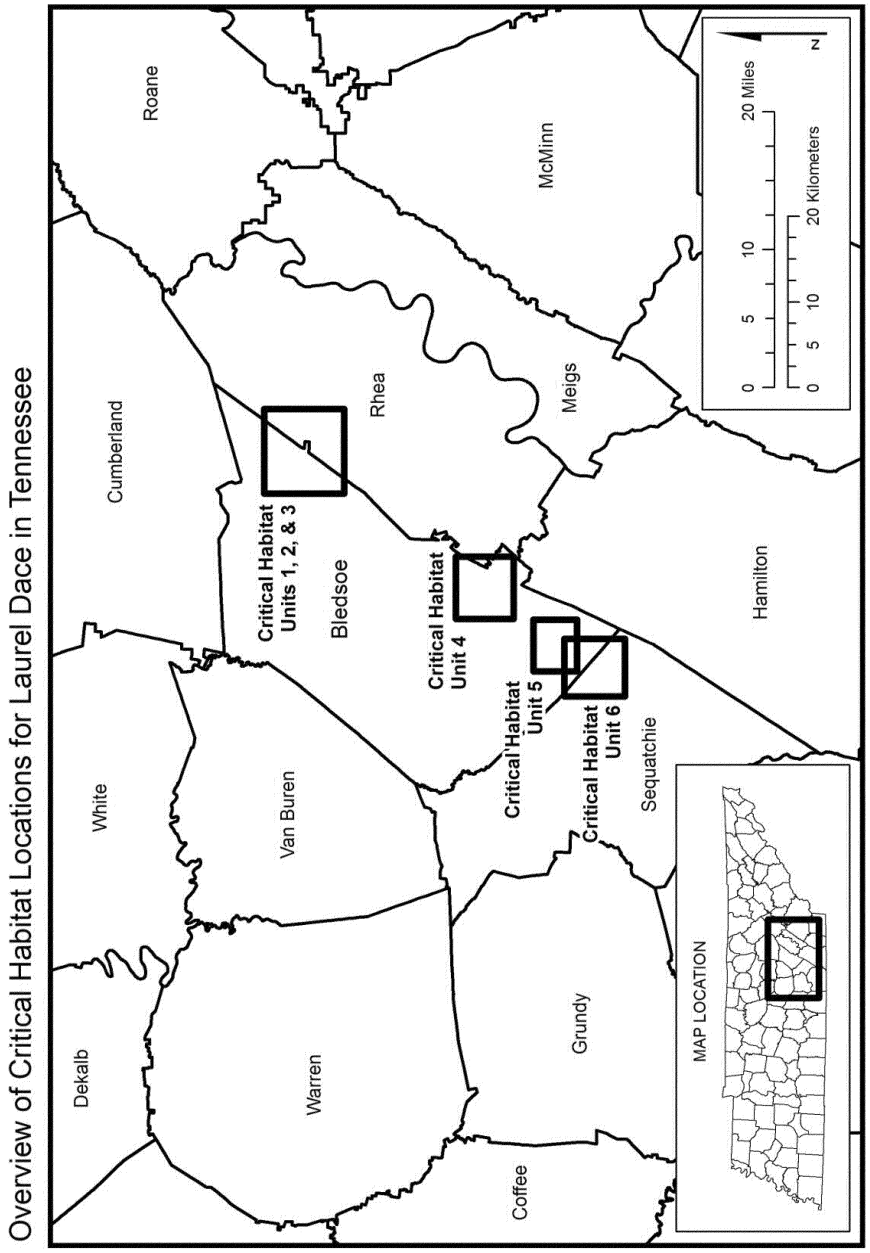
(iv) Adequate water quality characterized by moderate stream temperatures, acceptable dissolved oxygen concentrations, moderate pH, and low levels of pollutants. Adequate water quality is defined for the purpose of this rule as the quality necessary for normal behavior, growth, and viability of all life stages of the laurel dace.

(v) Prey base of aquatic macroinvertebrates, including midge larvae, caddisfly larvae, and stonefly larvae.

(3) Critical habitat does not include manmade 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 November 15, 2012.

(4) *Critical habitat unit maps.* Data layers defining map units were created on a base of USGS digital ortho-photo quarter-quadrangles, and critical habitat units were then mapped using Tennessee State Plane, Lambert Conformal Conic Projection, units feet. Upstream and downstream limits were then identified by longitude and latitude using decimal degrees and projected in WGS 1984. The maps in this entry, as modified by any accompanying regulatory text, establish the boundaries of the critical habitat designation. The coordinates or plot points or both on which each map is based are available to the public at the field office Internet site (*http://www.fws.gov/cookeville*), *http://www.regulations.gov* at Docket No. FWS–R4–ES–2011–0074, and at the Service's Tennessee Fish and Wildlife Office. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2.

(5) Index map follows:



(6) Units 1, 2, and 3: Bumbee Creek and Youngs Creek, Bledsoe and Rhea Counties, Tennessee; and Moccasin Creek, Bledsoe County, Tennessee.

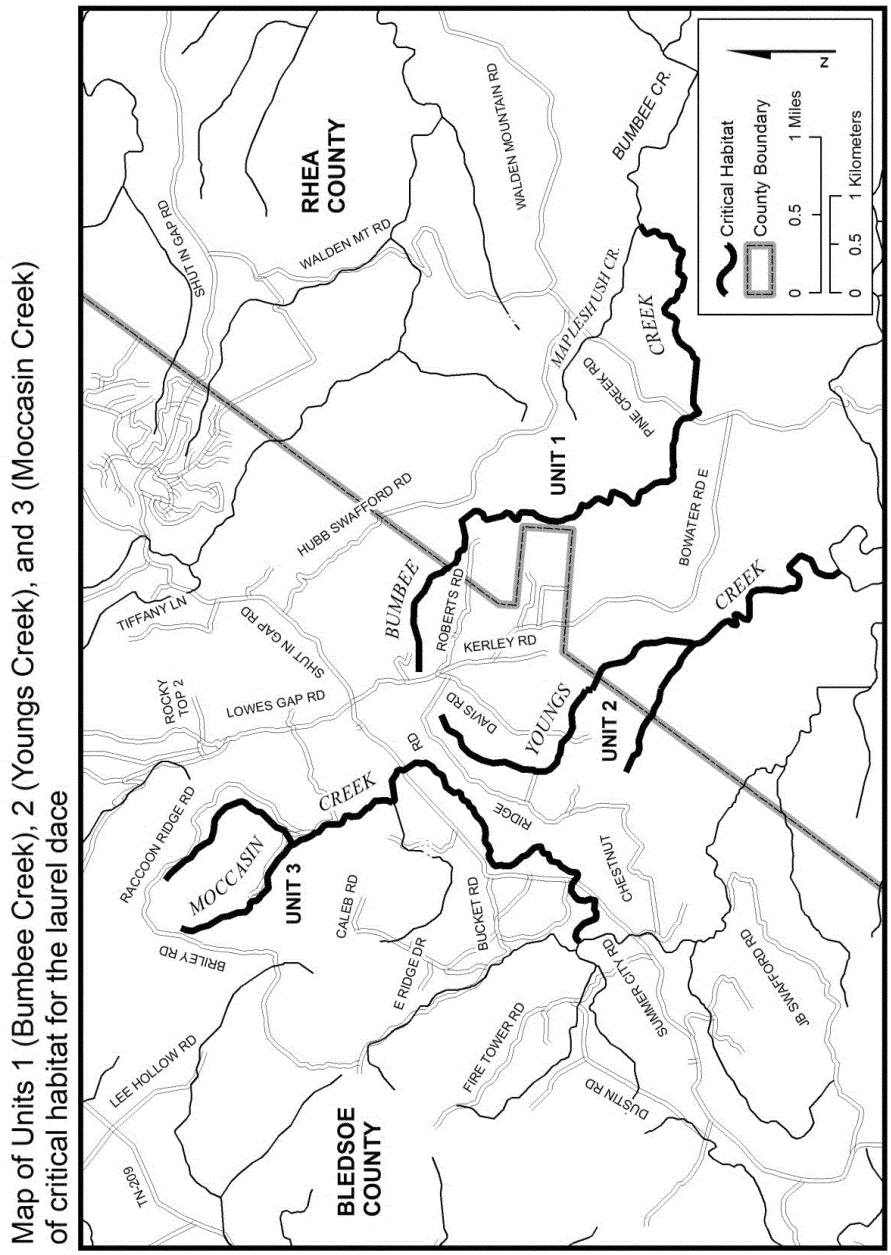
(i) Unit 1 includes 7.8 river kilometers (rkm) (4.8 river miles (rmi)) of Bumbee Creek from its headwaters in Bledsoe County, downstream to its confluence with

Mapleslush Branch in Rhea County, Tennessee.

(ii) Unit 2 includes 7.9 rkm (4.9 rmi) of Youngs Creek from its headwaters in Bledsoe County, downstream to its confluence with Moccasin Creek in Rhea County, Tennessee.

(iii) Unit 3 includes 9.0 rkm (5.6 rmi) of Moccasin Creek from its headwaters downstream to 0.1 rkm (0.6 rmi) below its confluence with Lick Creek in Bledsoe County, Tennessee.

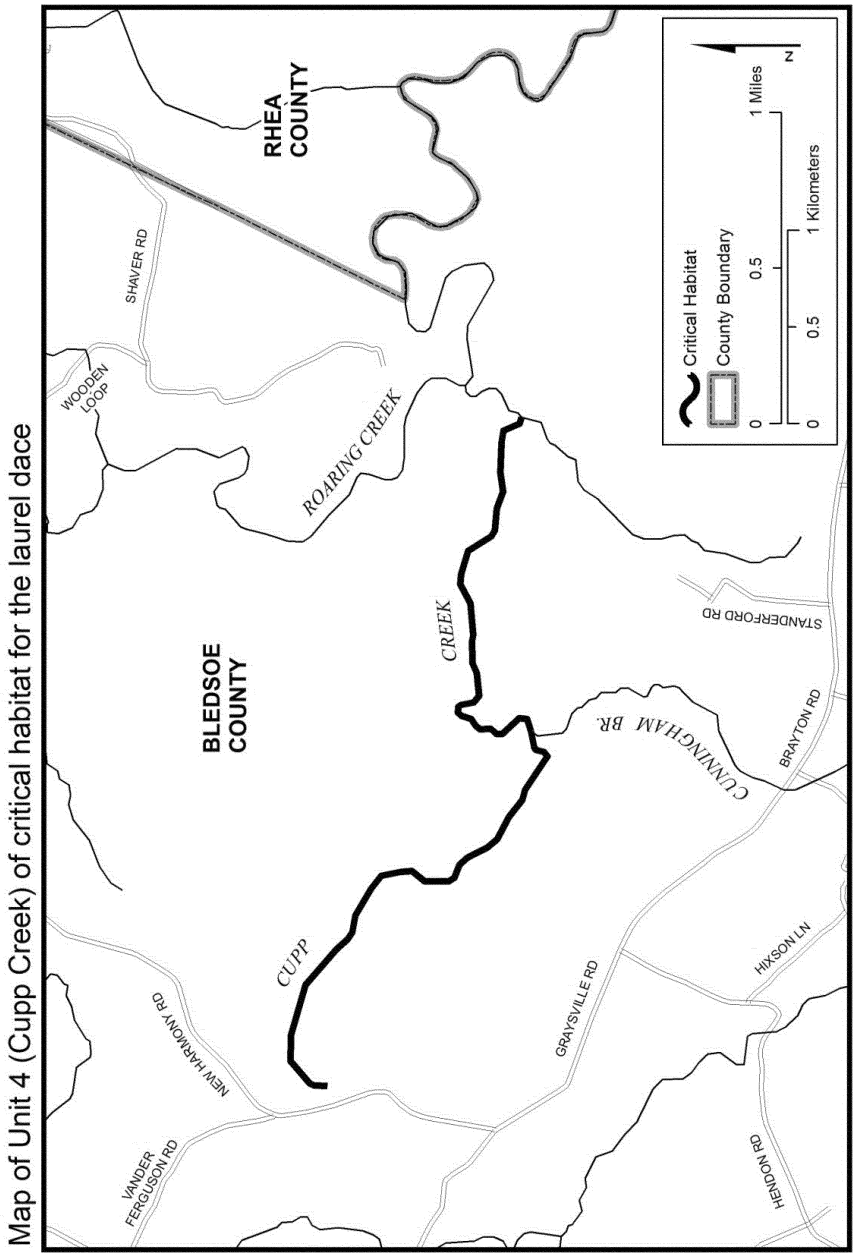
(iv) Map of Units 1, 2, and 3 of critical habitat for the laurel dace follows:



(7) Unit 4: Cupp Creek, Bledsoe County, Tennessee.

(i) Unit 4 includes 5.0 rkm (3.1 rmi) of Cupp Creek from its headwaters downstream to its confluence with an unnamed tributary in Bledsoe County, Tennessee.

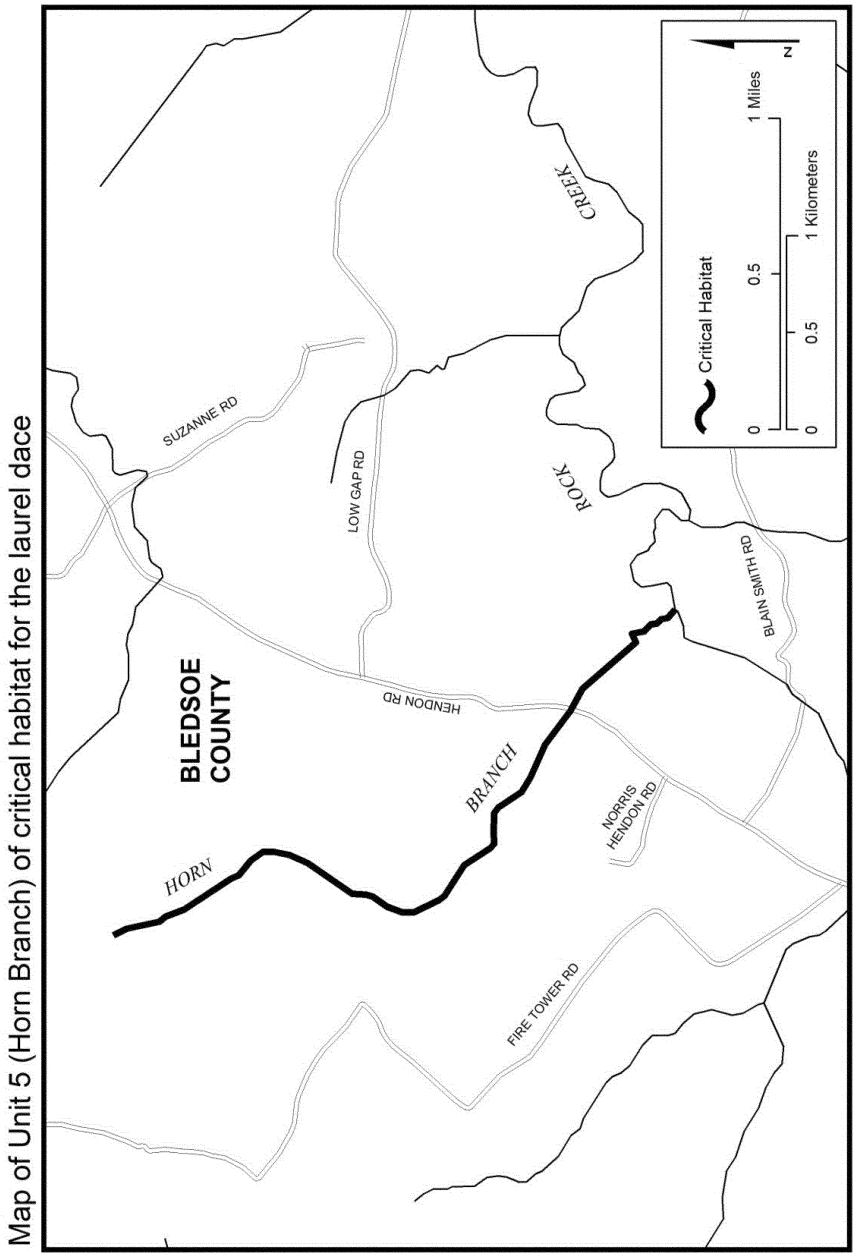
(ii) Map of Unit 4 of critical habitat for the laurel dace follows:



(8) Unit 5: Horn Branch, Bledsoe County, Tennessee.

(i) Unit 5 includes 4.0 rkm (2.5 rmi) of Horn Branch from its headwaters downstream to its confluence with Rock Creek, Bledsoe County, Tennessee.

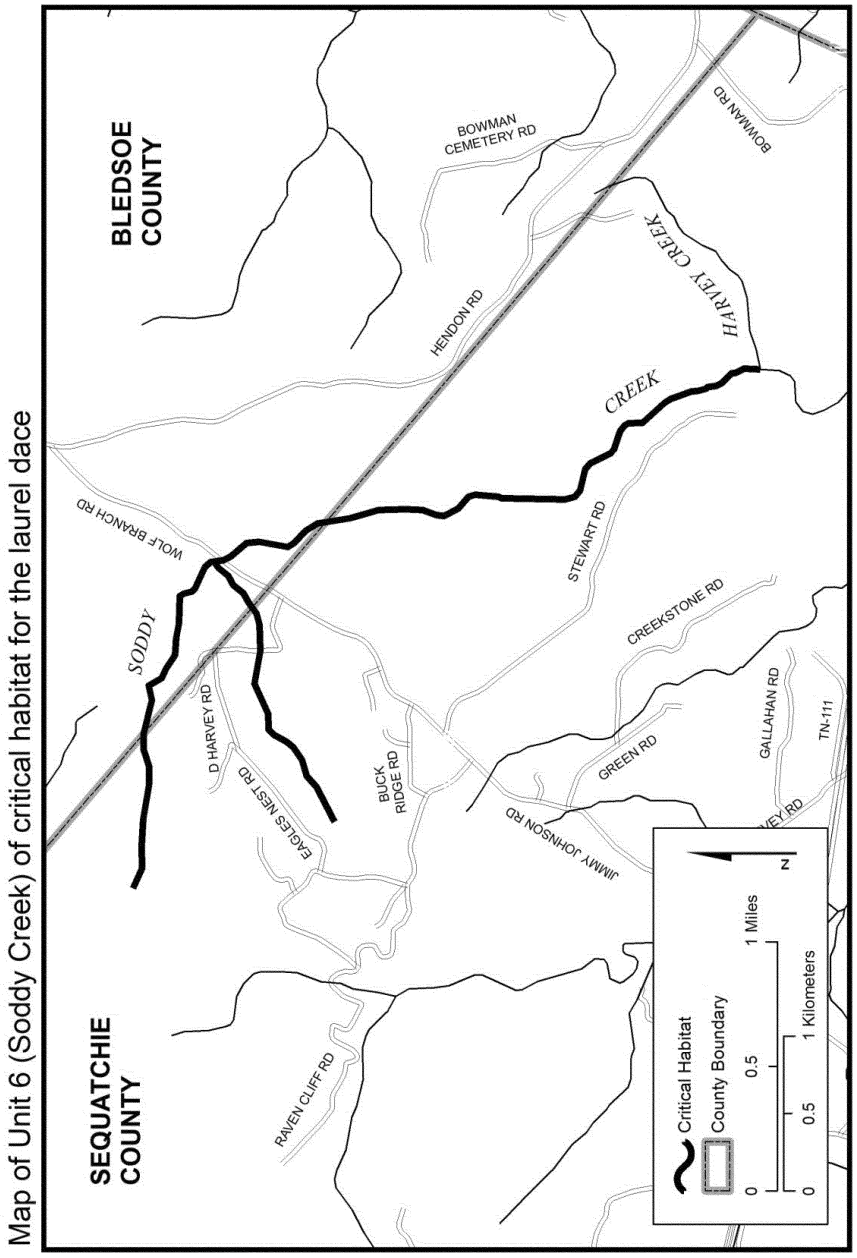
(ii) Map of Unit 5 of critical habitat for the laurel dace follows:



(9) Unit 6: Soddy Creek, Sequatchie and Bledsoe Counties, Tennessee.

(i) Unit 6 includes 8.4 rkm (5.2 rmi) of Soddy Creek from its headwaters in Sequatchie County, downstream to its confluence with Harvey Creek in Sequatchie County, Tennessee.

(ii) Map of Unit 6 of critical habitat for the laurel dace follows:

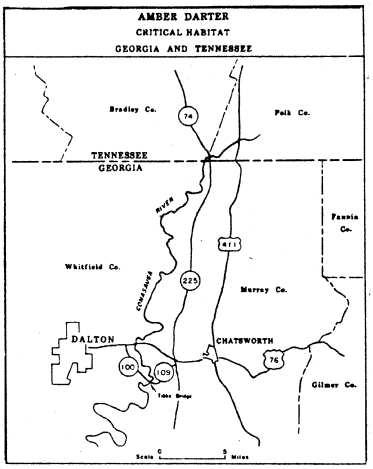


AMBER DARTER (*Percina antesella*)

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: The map provided is for informational purposes only. Map follows:



CUMBERLAND DARTER (*Etheostoma susanae*)

(1) Critical habitat units are depicted for McCreary and Whitley Counties, Kentucky, and Campbell and Scott Counties, Tennessee, on the maps below.

(2) Within these areas, the primary constituent elements of the physical and biological features essential to the conservation of the Cumberland darter consist of five components:

(i) Shallow pools and gently flowing runs of geomorphically stable, second- to fourth-order streams with connectivity between spawning, foraging, and resting sites to promote gene flow throughout the species' range.

(ii) Stable bottom substrates composed of relatively silt-free sand and sand-covered bedrock, boulders, large cobble, woody debris, or other cover.

(iii) An instream flow regime (magnitude, frequency, duration, and seasonality of discharge over time) sufficient to provide permanent surface flows, as measured during years with average rainfall, and to maintain benthic habitats utilized by the species.

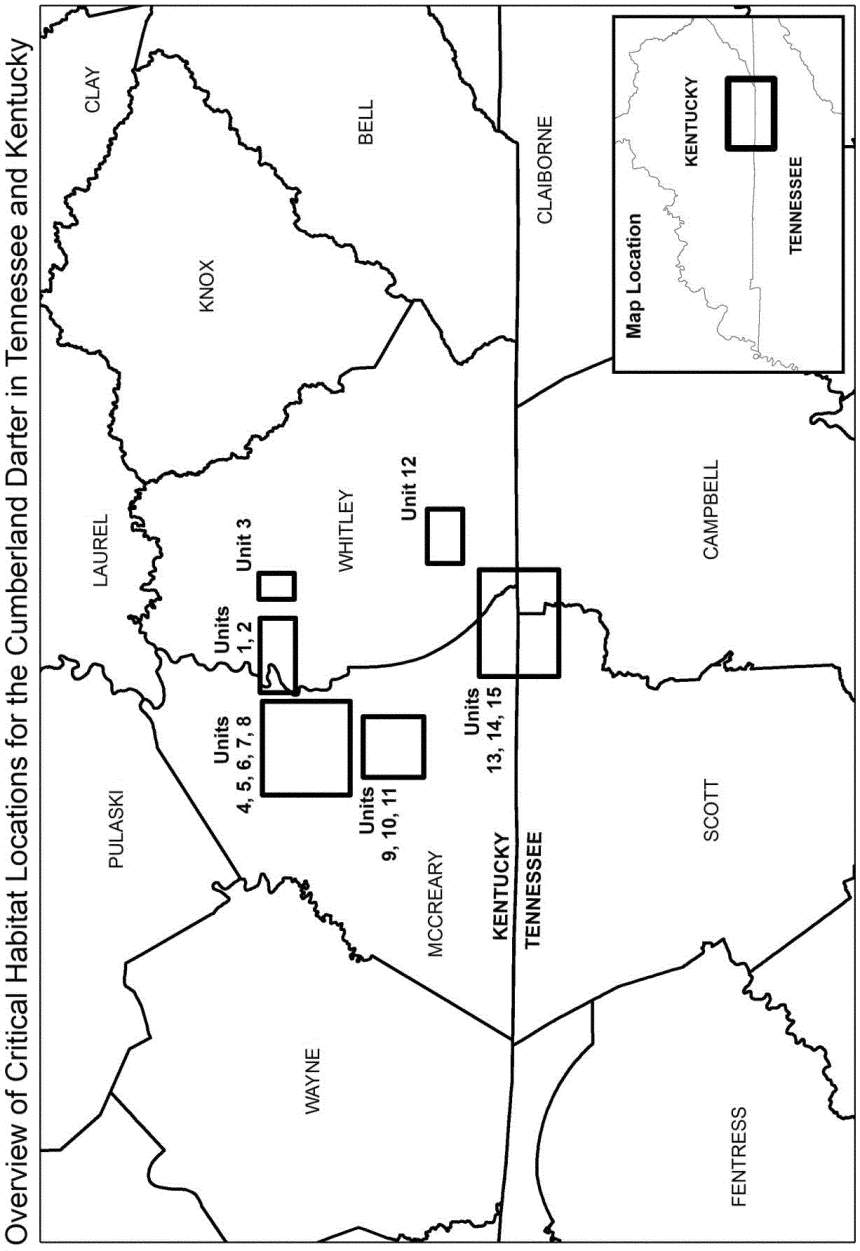
(iv) Adequate water quality characterized by moderate stream temperatures, acceptable dissolved oxygen concentrations, moderate pH, and low levels of pollutants. Adequate water quality is defined for the purpose of this rule as the quality necessary for normal behavior, growth, and viability of all life stages of the Cumberland darter.

(v) Prey base of aquatic macroinvertebrates, including midge larvae, mayfly nymphs, caddisfly larvae, and microcrustaceans.

(3) Critical habitat does not include manmade structures (such as buildings, aqueducts, bridges, runways, roads, and other paved areas) and the land on which they are located existing within the legal boundaries on November 15, 2012.

(4) *Critical habitat map units.* Data layers defining map units were created on a base of USGS digital ortho-photo quarter-quadrangles, and critical habitat units were then mapped using Tennessee State Plane, Lambert Conformal Conic Projection, units feet. Upstream and downstream limits were then identified by longitude and latitude using decimal degrees and projected in WGS 1984. The maps in this entry, as modified by any accompanying regulatory text, establish the boundaries of the critical habitat designation. The coordinates or plot points or both on which each map is based are available to the public at the field office Internet site (*http://www.fws.gov/cookeville*), *http://www.regulations.gov* at Docket No. FWS–R4–ES–2011–0074, and at the Service's Tennessee Fish and Wildlife Office. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2.

(5) Index map follows:

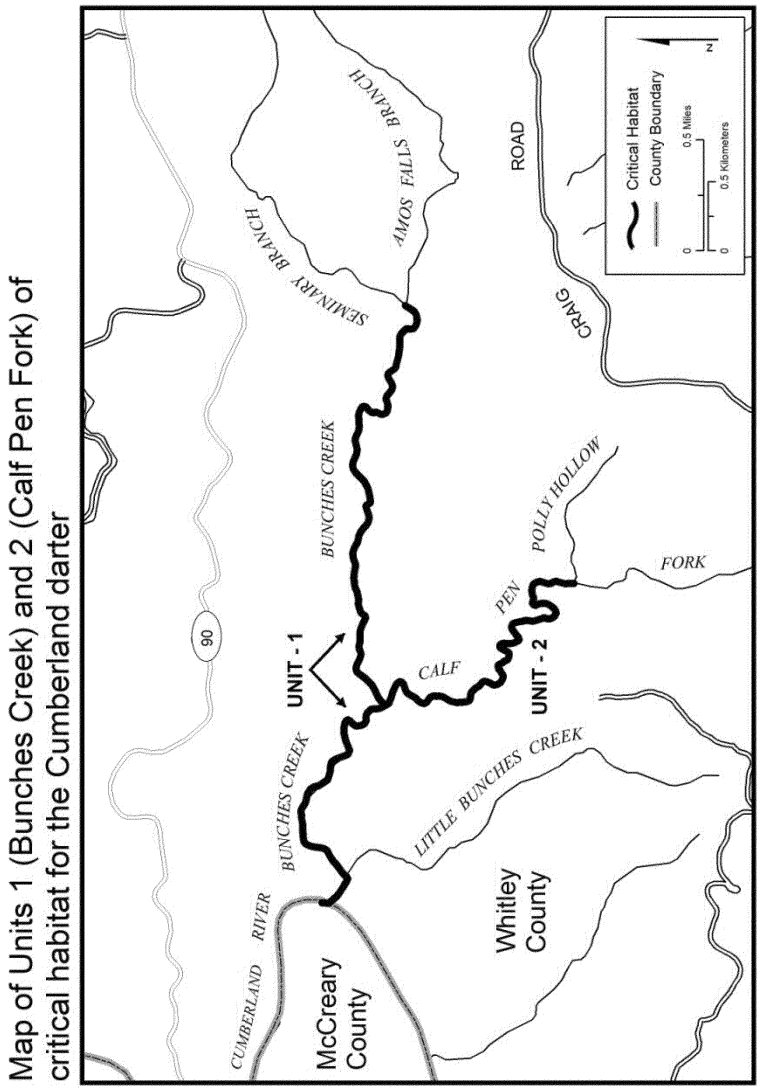


(6) Units 1 and 2: Bunches Creek and Calf Pen Fork, Whitley County, Kentucky.

(i) Unit 1 includes 5.8 river kilometers (rkm) (3.6 river miles (rmi)) of Bunches Creek from the Seminary Branch and Amos Falls Branch confluence downstream to its confluence with the Cumberland River.

(ii) Unit 2 includes 2.9 rkm (1.8 rmi) of Calf Pen Fork from its confluence with Polly Branch downstream to its confluence with Bunches Creek.

(iii) Map of Units 1 and 2 of critical habitat for the Cumberland darter follows:

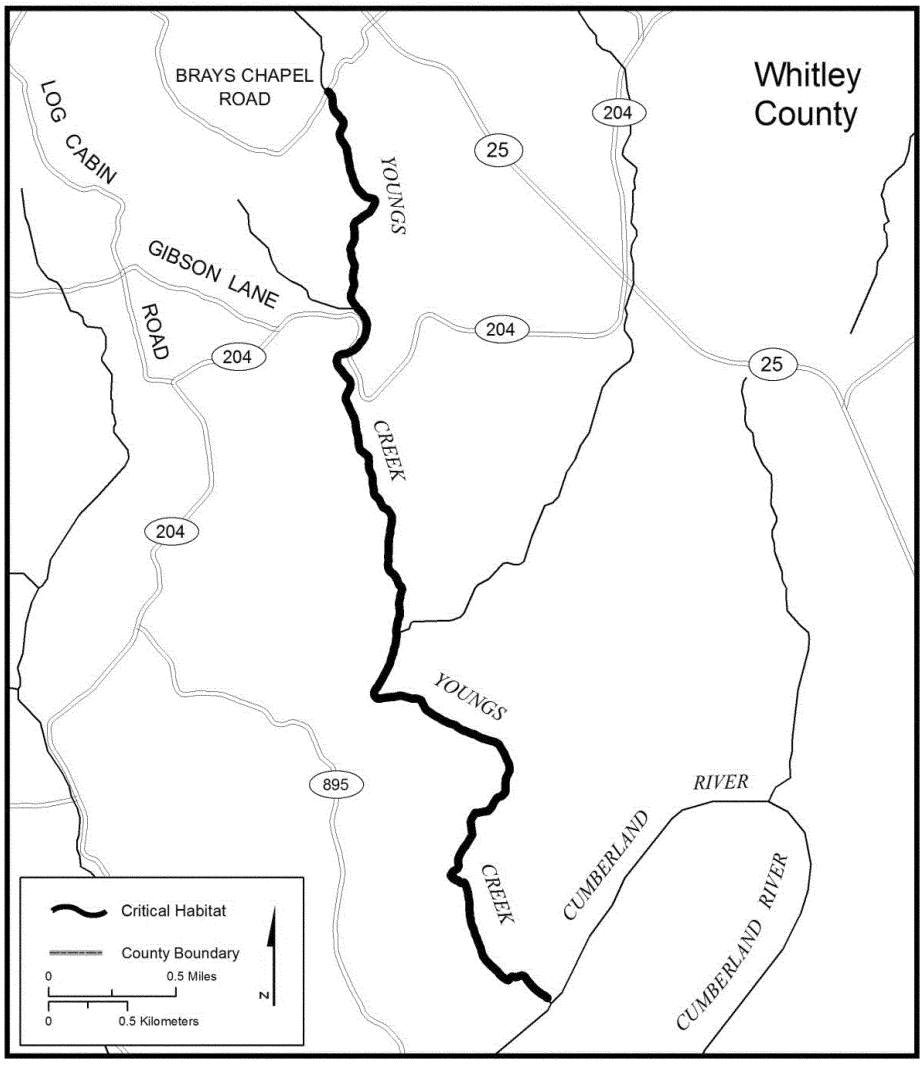


(7) Unit 3: Youngs Creek, Whitley County, Kentucky.

(i) Unit 3 includes 7.4 rkm (4.6 rmi) of Youngs Creek from Brays Chapel Road downstream to its confluence with the Cumberland River.

(ii) Map of Unit 3 of critical habitat for the Cumberland darter follows:

Map of Unit 3 (Youngs Creek) of critical habitat for the Cumberland darter



(8) Units 4, 5, 6, 7, and 8: Barren Fork, Indian Creek, Cogur Fork, Kilburn Fork, and Laurel Fork, McCreary County, Kentucky.

(i) Unit 4 includes 6.3 rkm (3.9 rmi) of Barren Fork from its confluence with an unnamed tributary downstream to its confluence with Indian Creek.

(ii) Unit 5 includes 4.0 rkm (2.5 rmi) of Indian Creek from its confluence with an unnamed tributary downstream to its confluence with Barren Fork.

(iii) Unit 6 includes 8.6 rkm (5.4 rmi) of Cogur Fork from its confluence with Strunk Branch downstream to its confluence with Indian Creek.

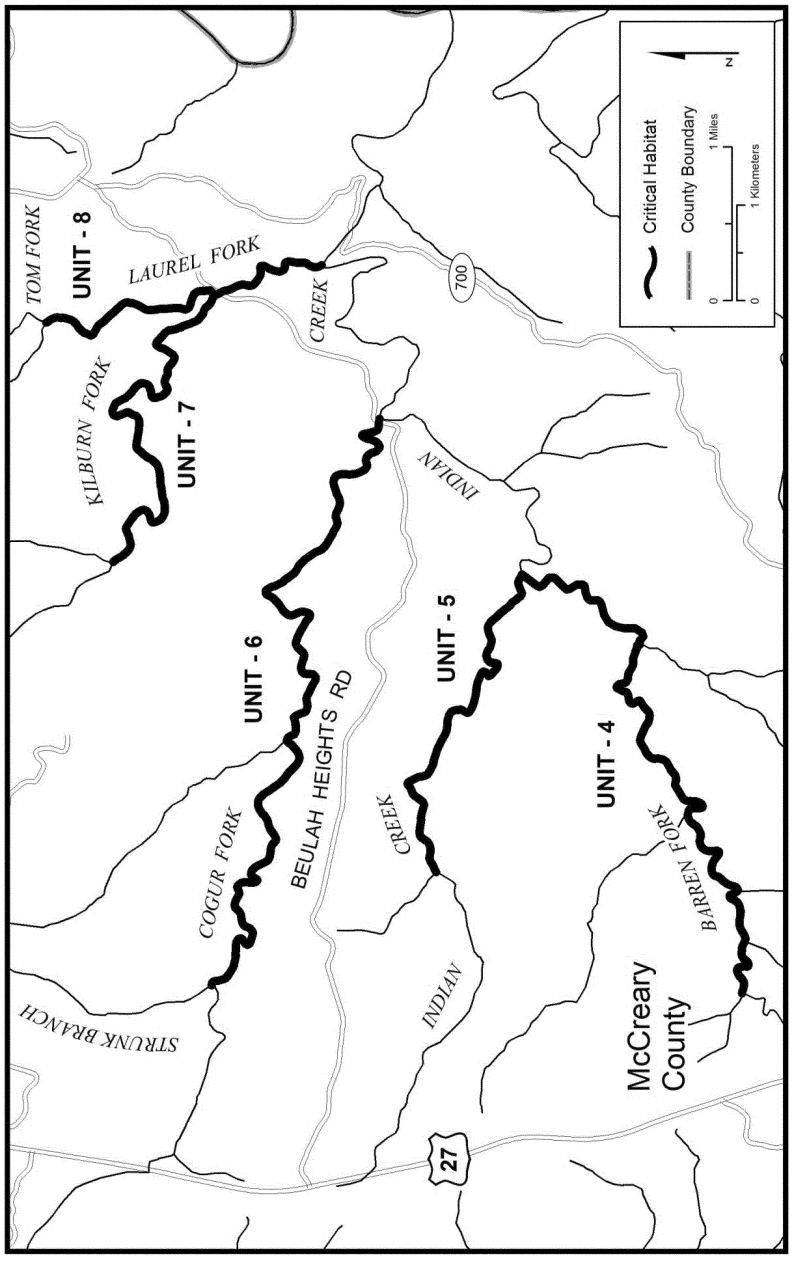
(iv) Unit 7 includes 4.6 rkm (2.9 rmi) of Kilburn Fork from its confluence with an

unnamed tributary downstream to its confluence with Laurel Fork.

(v) Unit 8 includes 3.5 rkm (2.2 rmi) of Laurel Fork from its confluence with Toms Fork downstream to its confluence with Indian Creek.

(vi) Map of Units 4, 5, 6, 7, and 8 of critical habitat for the Cumberland darter follows:

Map of Units 4 (Barren Fork), 5 (Indian Creek), 6 (Cogur Fork), 7 (Kilburn Fork), and 8 (Laurel Fork) of critical habital for the Cumberland darter



(9) Units 9, 10, and 11: Laurel Creek, Elisha Branch, and Jenneys Branch, McCreary County, Kentucky.

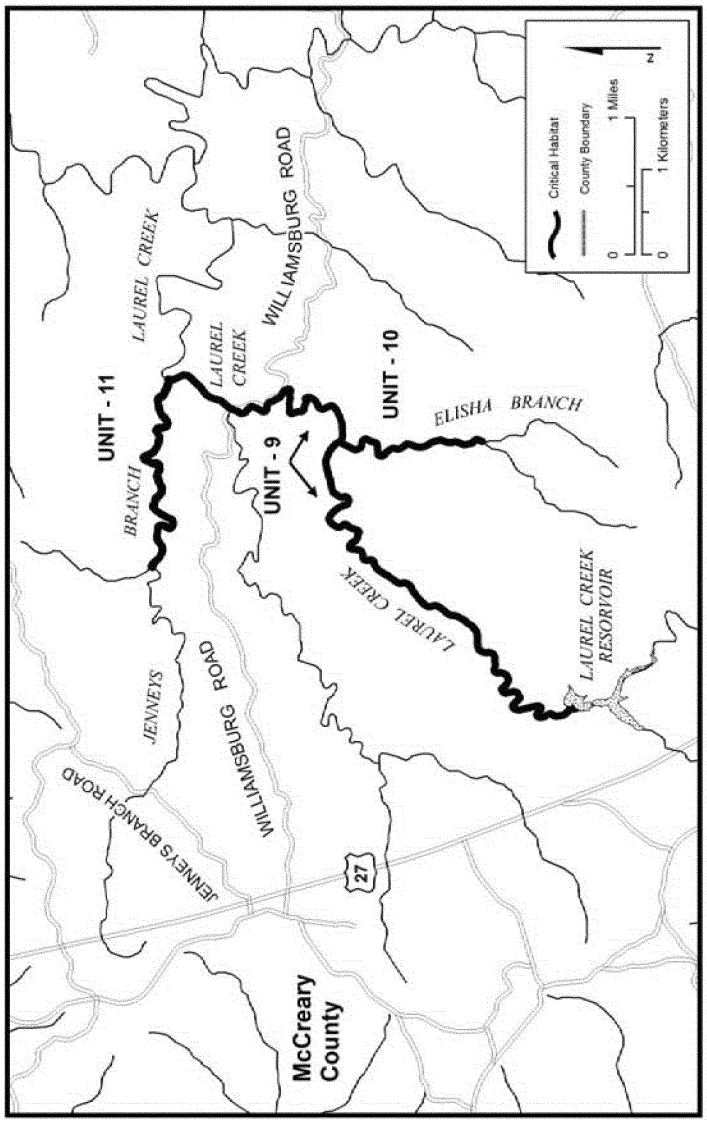
(i) Unit 9 includes 9.4 rkm (5.9 rmi) of Laurel Creek from Laurel Creek Reservoir downstream to its confluence with Jenneys Branch.

(ii) Unit 10 includes 2.1 rkm (1.3 rmi) of Elisha Branch from its confluence with an unnamed tributary downstream to its confluence with Laurel Creek.

(iii) Unit 11 includes 3.1 rkm (1.9 rmi) of Jenneys Branch from its confluence with an unnamed tributary downstream to its confluence with Laurel Creek.

(iv) Map of Units 9, 10, and 11 of critical habitat for the Cumberland darter follows:

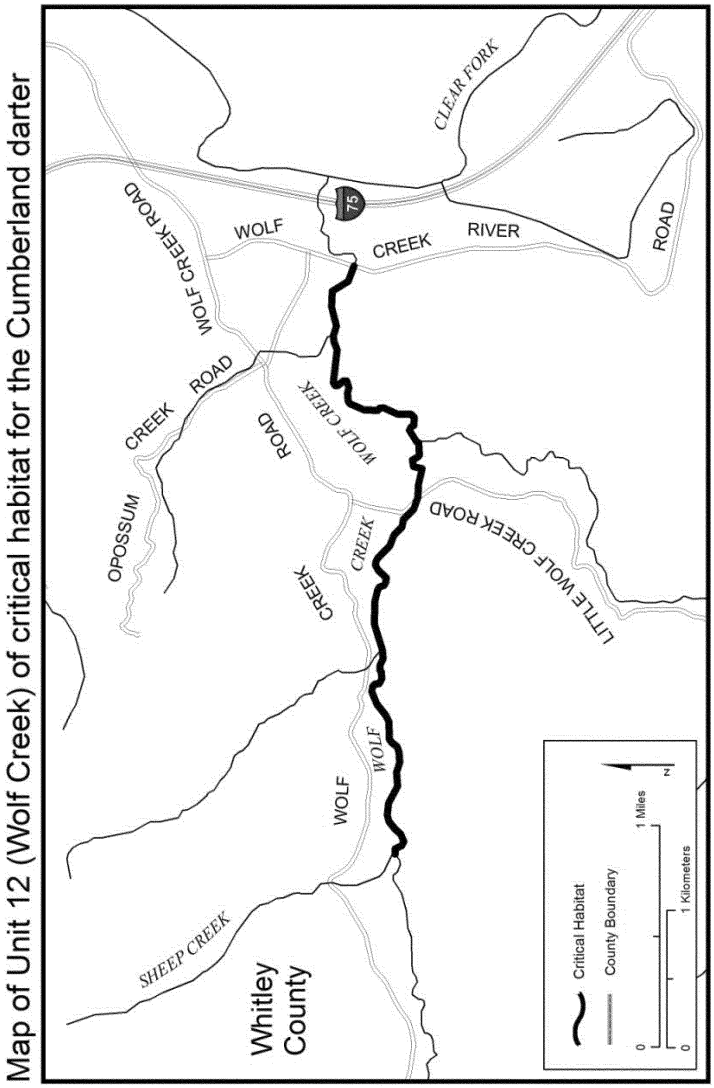
Map of Units 9 (Laurel Creek), 10 (Elisha Fork), and 11 (Jenneys Branch) of critical habitat for the Cumberland darter



(10) Unit 12: Wolf Creek, Whitley County, Kentucky.

(i) Unit 12 includes 6.3 rkm (3.9 rmi) of Wolf Creek from its confluence with Sheep Creek downstream to its intersection with Wolf Creek River Road.

(ii) Map of Unit 12 of critical habitat for the Cumberland darter follows:



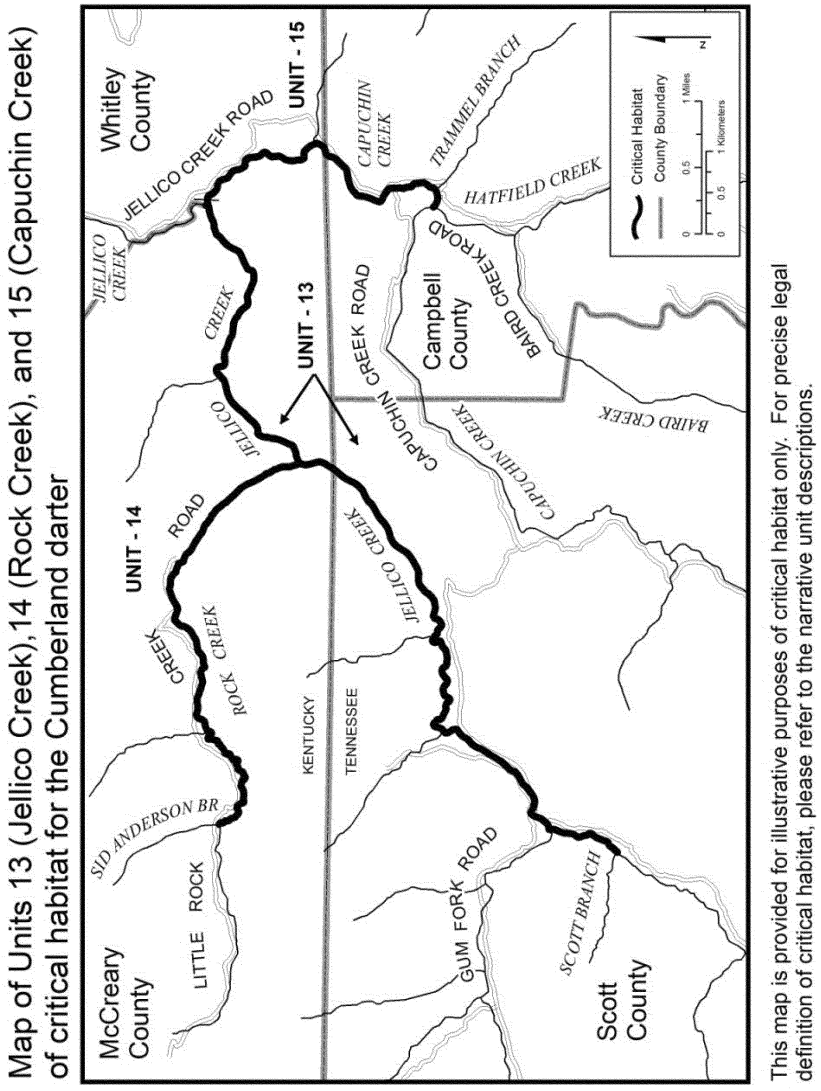
(11) Units 13, 14, and 15: Jellico Creek, Rock Creek, and Capuchin Creek, McCreary and Whitley Counties, Kentucky, and Campbell and Scott Counties, Tennessee.

(i) Unit 13 includes 11.5 rkm (7.2 rmi) of Jellico Creek from its confluence with Scott Branch, Scott County, Tennessee, downstream to its confluence with Capuchin Creek, McCreary County, Kentucky.

(ii) Unit 14 includes 6.1 rkm (3.8 rmi) of Rock Creek from its confluence with Sid Anderson Branch downstream to its confluence with Jellico Creek.

(iii) Unit 15 includes 4.2 rkm (2.6 rmi) of Capuchin Creek from its confluence with Hatfield Creek downstream to its confluence with Jellico Creek.

(iv) Map of Units 13, 14, and 15 of critical habitat for the Cumberland darter follows:



DIAMOND DARTER (*Crystallaria cincotta*)

(1) Critical habitat units are depicted for Kanawha and Clay Counties, West Virginia, and Edmonson, Hart, and Green Counties, Kentucky, on the maps below.

(2) Within these areas, the primary constituent elements of the physical or biological features essential to the conservation of diamond darter consist of five components:

(i) A series of connected riffle-pool complexes with moderate velocities in moderate- to large-sized (fourth- to eighth-order), geomorphically stable streams within the Ohio River watershed.

(ii) Stable, undisturbed sand and gravel stream substrates that are relatively free of and not embedded with silts and clays.

(iii) An instream flow regime (magnitude, frequency, duration, and seasonality of discharge over time) that is relatively unimpeded by impoundment or diversions such that there is minimal departure from a natural hydrograph.

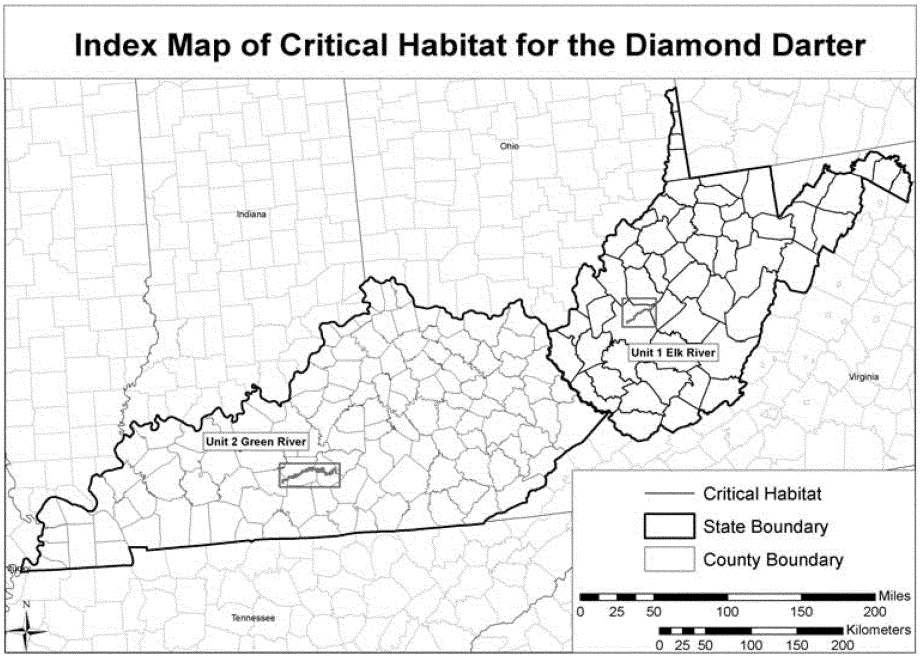
(iv) Adequate water quality characterized by seasonally moderated temperatures, high dissolved oxygen levels, and moderate pH, and low levels of pollutants and siltation. Adequate water quality is defined as the quality necessary for normal behavior, growth, and viability of all life stages of the diamond darter.

(v) A prey base of other fish larvae and benthic invertebrates including midge, caddisfly, and mayfly larvae.

(3) Critical habitat does not include manmade structures (such as bridges, docks, aqueducts 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 with U.S. Geological Survey National Hydrography Dataset Geographic Information System data. Esri's ArcGIS 10.1 software was used to determine longitude and latitude in decimal degrees for the river reaches. The projection used in mapping was Universal Transverse Mercator (UTM), NAD 83, Zone 16 North for the Green River, Kentucky, unit; and UTM, NAD 83, Zone 17 North for the Elk River, West Virginia, unit. The following data sources were referenced to identify features used to delineate the upstream and downstream reaches of critical habitat units: USGS 7.5′ quadrangles and topographic maps, NHD data, 2005 National Inventory of Dams, Kentucky Land Stewardship data, pool and shoal data on the Elk River, Esri's Bing Maps Road. The maps in this entry, as modified by any accompanying regulatory text, establish the boundaries of the critical habitat designation. The coordinates or plot points or both on which each map is based are available to the public at the field office Internet site (*http://www.fws.gov/westvirginiafieldoffice/index.html*), *http://www.regulations.gov* at Docket No. FWS–R5–ES–2013–0019, and at the Service's West Virginia Field Office. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2.

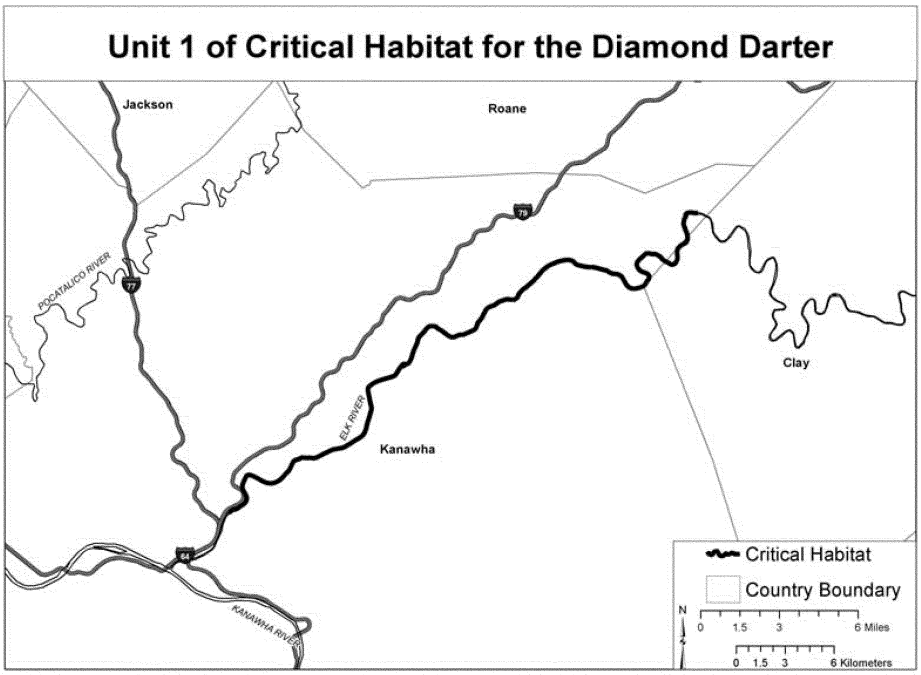
(5) *Note:* Index map of critical habitat locations for the diamond darter in West Virginia and Kentucky follows:



(6) Unit 1: Lower Elk River, Kanawha and Clay Counties, West Virginia.

(i) Unit 1 includes 45.0 km (28.0 mi) of the Elk River from the confluence with King Shoals Run near Wallback Wildlife Management Area downstream to the confluence with an unnamed tributary entering the Elk River on the right descending bank adjacent to Knollwood Drive in Charleston, West Virginia.

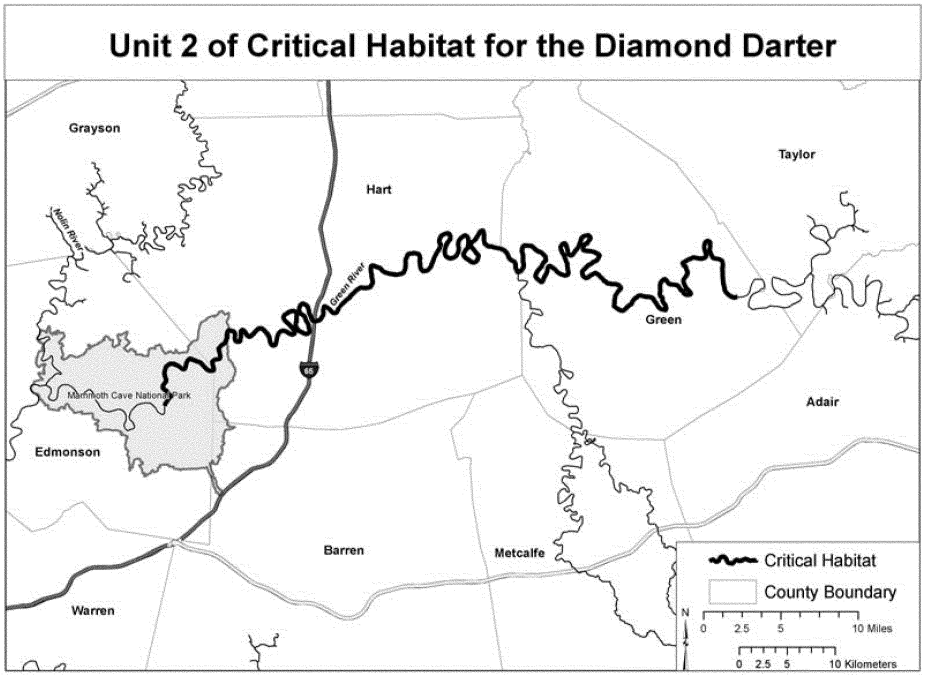
(ii) Map of Unit 1 (lower Elk River) follows:



(7) Unit 2: Green River, Edmonson, Hart, and Green Counties, Kentucky.

(i) Unit 2 includes 152.1 km (94.5 mi) of the Green River from Roachville Ford near Greensburg (River Mile 294.8) downstream to the downstream end of Cave Island in Mammoth Cave National Park (River Mile 200.3).

(ii) Map of Unit 2 (Green River) follows:



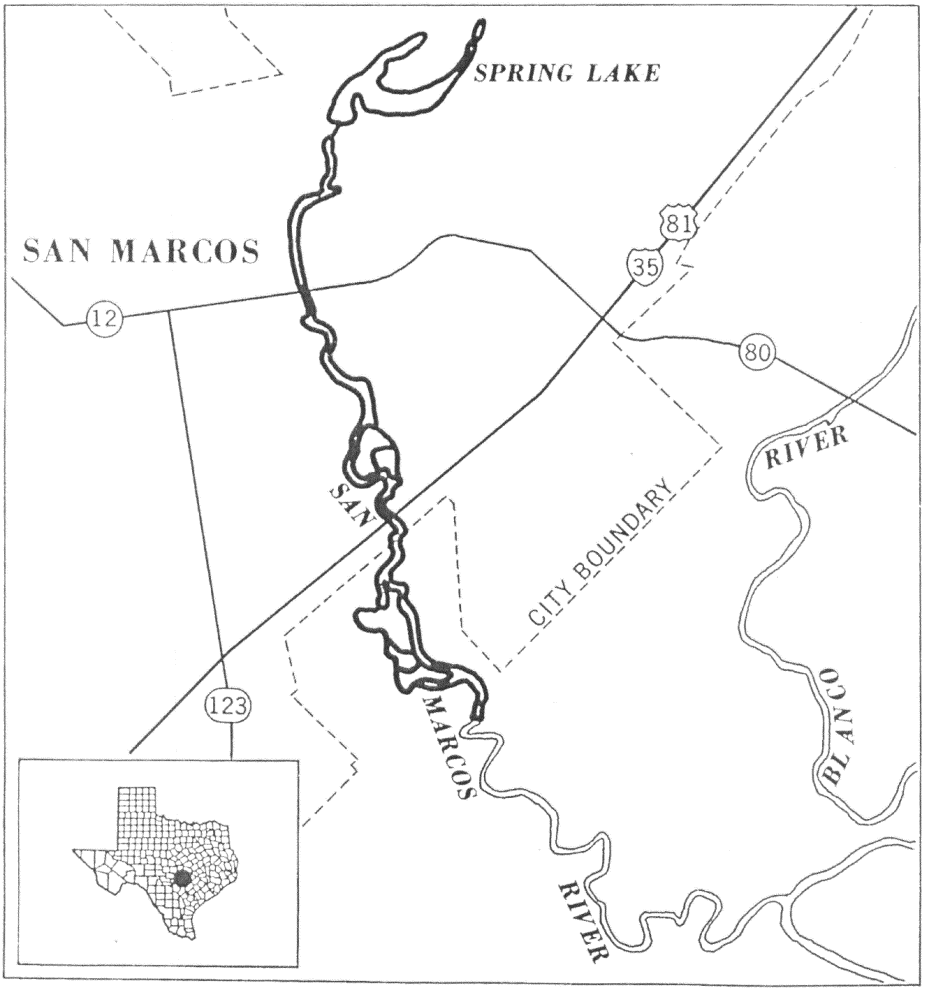
FOUNTAIN DARTER (*Etheostoma fonticola*)

Texas, Hays County; Spring Lake and its outflow, the San Marcos River, downstream approximately 0.5 miles below Interstate Highway 35 bridge.

NOTE: The map provided is for informational purposes only. Map follows:

FOUNTAIN DARTER

Hays County, TEXAS



KENTUCKY ARROW DARTER (*Etheostoma Spilotum*)

(1) Critical habitat units are depicted on the maps below for Breathitt, Clay, Harlan, Jackson, Knott, Lee, Leslie, Owsley, Perry, and Wolfe Counties, Kentucky.

(2) Within these areas, the primary constituent elements of the physical or biological features essential to the conservation of

the Kentucky arrow darter consist of five components:

(i) Primary Constituent Element 1—Riffle-pool complexes and transitional areas (glides and runs) of geomorphically stable, first- to third-order streams of the upper Kentucky River drainage with connectivity between spawning, foraging, and resting sites to promote gene flow throughout the species' range.

(ii) Primary Constituent Element 2—Stable bottom substrates composed of gravel, cobble, boulders, bedrock ledges, and woody debris piles with low levels of siltation.

(iii) Primary Constituent Element 3—An instream flow regime (magnitude, frequency, duration, and seasonality of discharge over time) sufficient to provide permanent surface flows, as measured during years with average rainfall, and to maintain benthic habitats utilized by the species.

(iv) Primary Constituent Element 4—Adequate water quality characterized by seasonally moderate stream temperatures (generally ≤ 24 °C or 75 °F), high dissolved oxygen concentrations (generally ≥ 6.0 mg/L), moderate pH (generally 6.0 to 8.5), low stream conductivity (species' abundance decreases sharply as conductivities exceed 261 µS/cm and species is typically absent above 350 µS)/cm, and low levels of pollutants. Adequate water quality is the quality necessary for normal behavior, growth, and viability of all life stages of the Kentucky arrow darter.

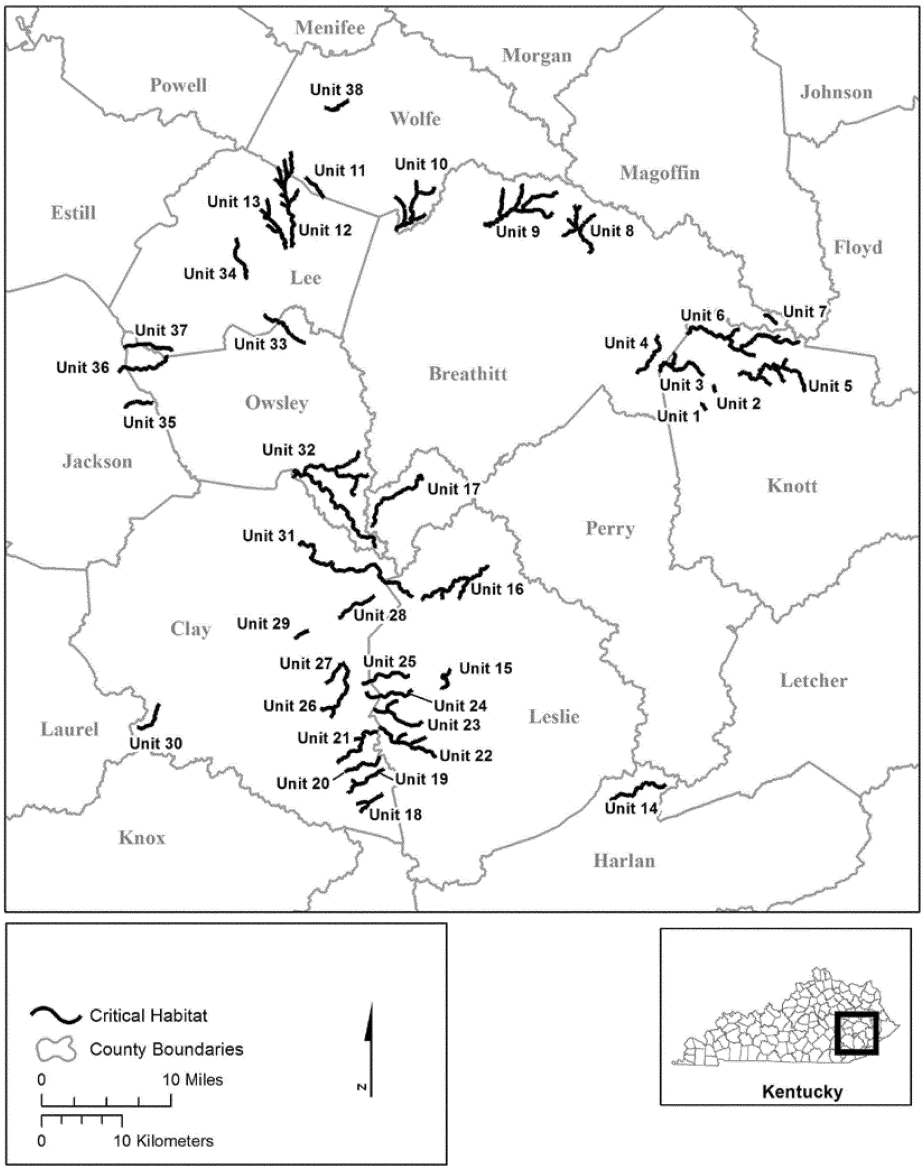
(v) Primary Constituent Element 5—A prey base of aquatic macroinvertebrates, including mayfly nymphs, midge larvae, blackfly larvae, caddisfly larvae, stonefly nymphs, and small crayfishes.

(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 November 4, 2016.

(4) *Critical habitat map units.* Data layers defining map units were created on a base of U.S. Geological Survey (USGS) National Hydrography Dataset (NHD+) GIS data. The 1:100,000 river reach (route) files were used to calculate river kilometers and miles. ESRIs ArcGIS 10.0 software was used to determine longitude and latitude coordinates using decimal degrees. The projection used in mapping all units was USA Contiguous Albers Equal Area Conic USGS version, NAD 83, meters. The following data sources were referenced to identify features (like roads and streams) used to delineate the upstream and downstream extents of critical habitat units: NHD+ flowline and waterbody data, 2011 Navteq roads data, USA Topo ESRI online basemap service, DeLorme Atlas and Gazetteers, and USGS 7.5 minute topographic maps. The maps in this entry, as modified by any accompanying regulatory text, establish the boundaries of the critical habitat designation. The coordinates, plot points, or both on which each map is based are available to the public at the Service's Internet site, (*http://fws.gov/frankfort/*), at *http://www.regulations.gov* at Docket No. FWS–R4–ES–2015–0133, and at the field office responsible for this designation. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2.

(5) *Note:* Index map follows:

Index Map:Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)



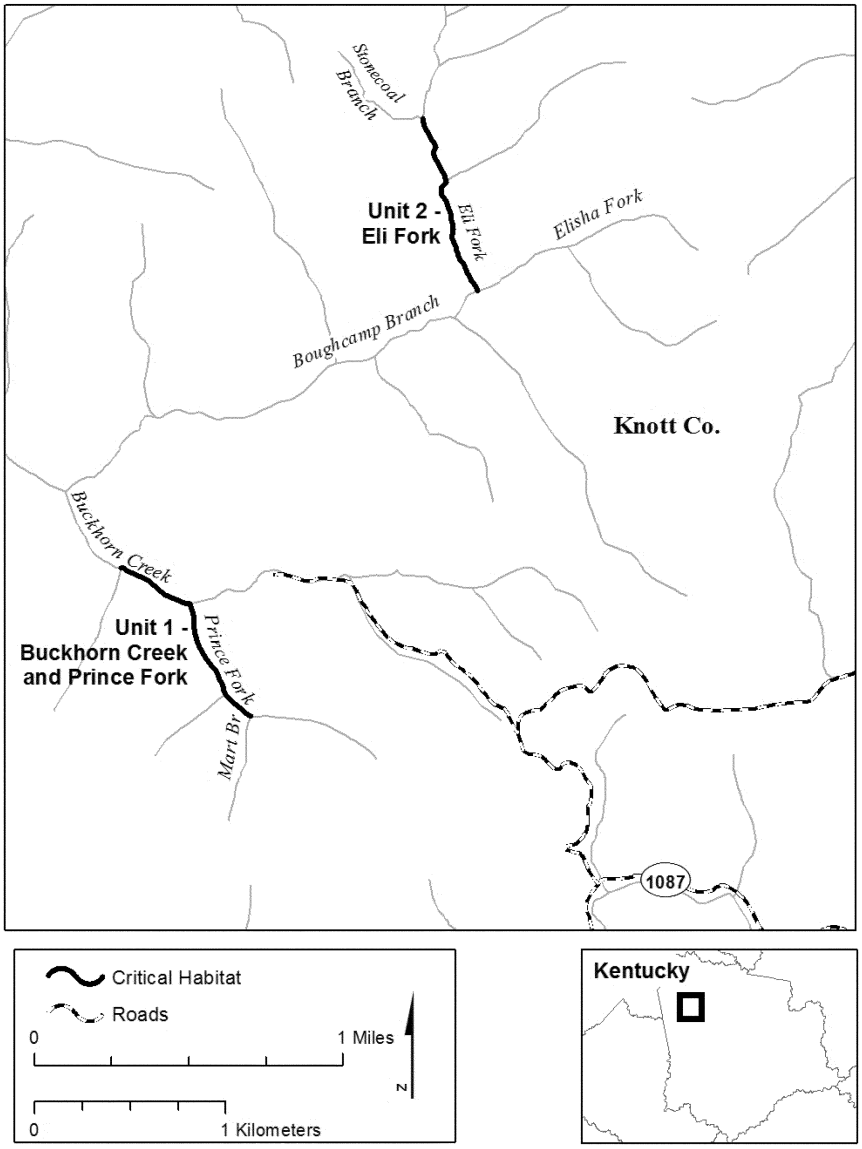
(6) Unit 1: Buckhorn Creek and Prince Fork, and Unit 2: Eli Fork, Knott County, Kentucky.

(i) Unit 1 includes 0.7 skm (0.4 smi) of Prince Fork from Mart Branch (37.41291, −83.07000) downstream to its confluence with Buckhorn Creek (37.41825, −83.07341), and 0.4 skm (0.3 smi) of Buckhorn Creek from its headwaters at (37.41825, −83.07341) downstream to its confluence with Emory Branch (37.42006, −83.07738) in Knott County, Kentucky.

(ii) Unit 2 includes 1.0 skm (0.6 smi) of Eli Fork from its headwaters at (37.44078, −83.05884), downstream to its confluence with Boughcamp Branch (37.43259, −83.05591) in Knott County, Kentucky.

(iii) Map of Units 1 and 2 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 1 - Buckhorn Creek and Prince Fork: Knott County, Kentucky
Unit 2 - Eli Fork: Knott County, Kentucky

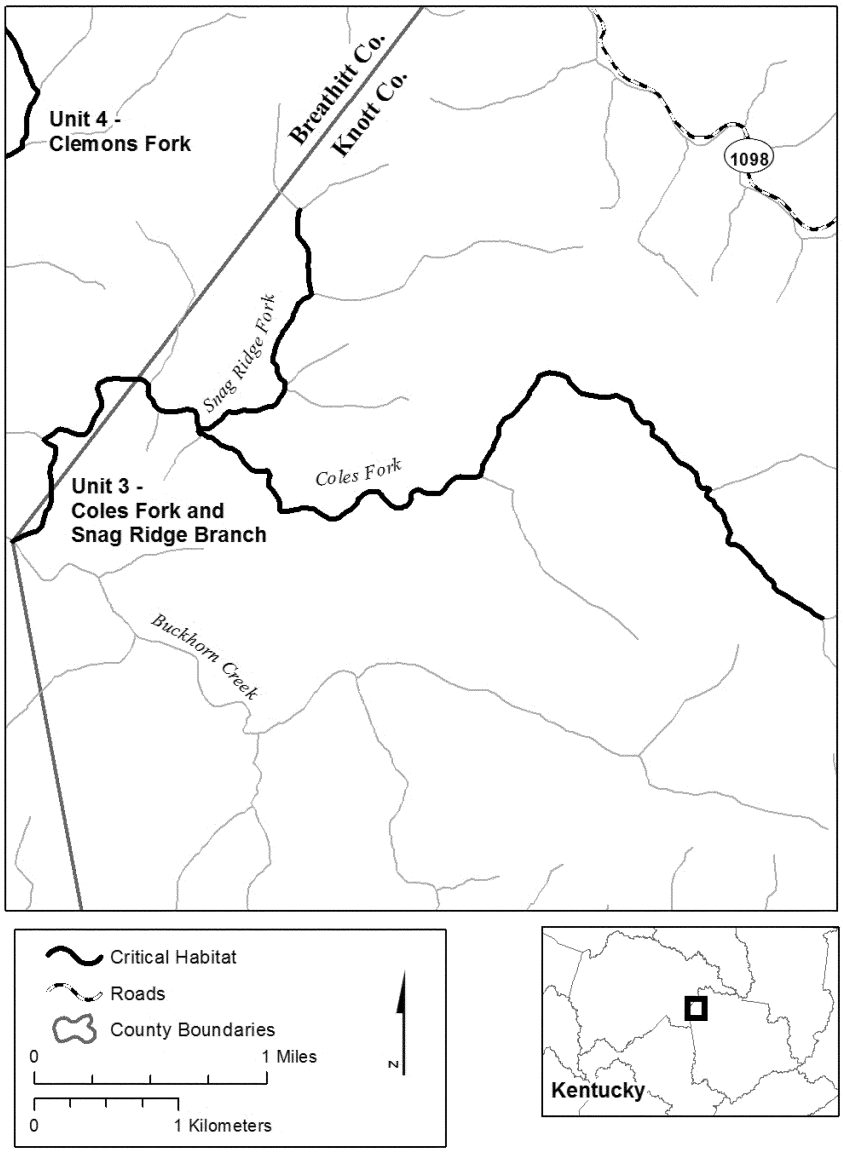


(7) Unit 3: Coles Fork and Snag Ridge Fork, Breathitt and Knott Counties, Kentucky.

(i) Unit 3 includes 2.1 skm (1.3 smi) of Snag Ridge Fork from its headwaters at (37.47746, −83.11139), downstream to its confluence with Coles Fork (37.46391, −83.13468) in Knott County; and 8.9 skm (5.5 smi) of Coles Fork from its headwaters at (37.45096, −83.07124), downstream to its confluence with Buckhorn Creek (37.45720, −83.13468) in Knott County, Kentucky.

(ii) Map of Unit 3 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 3 - Coles Fork and Snag Ridge Branch: Knott and Breathitt Counties, Kentucky

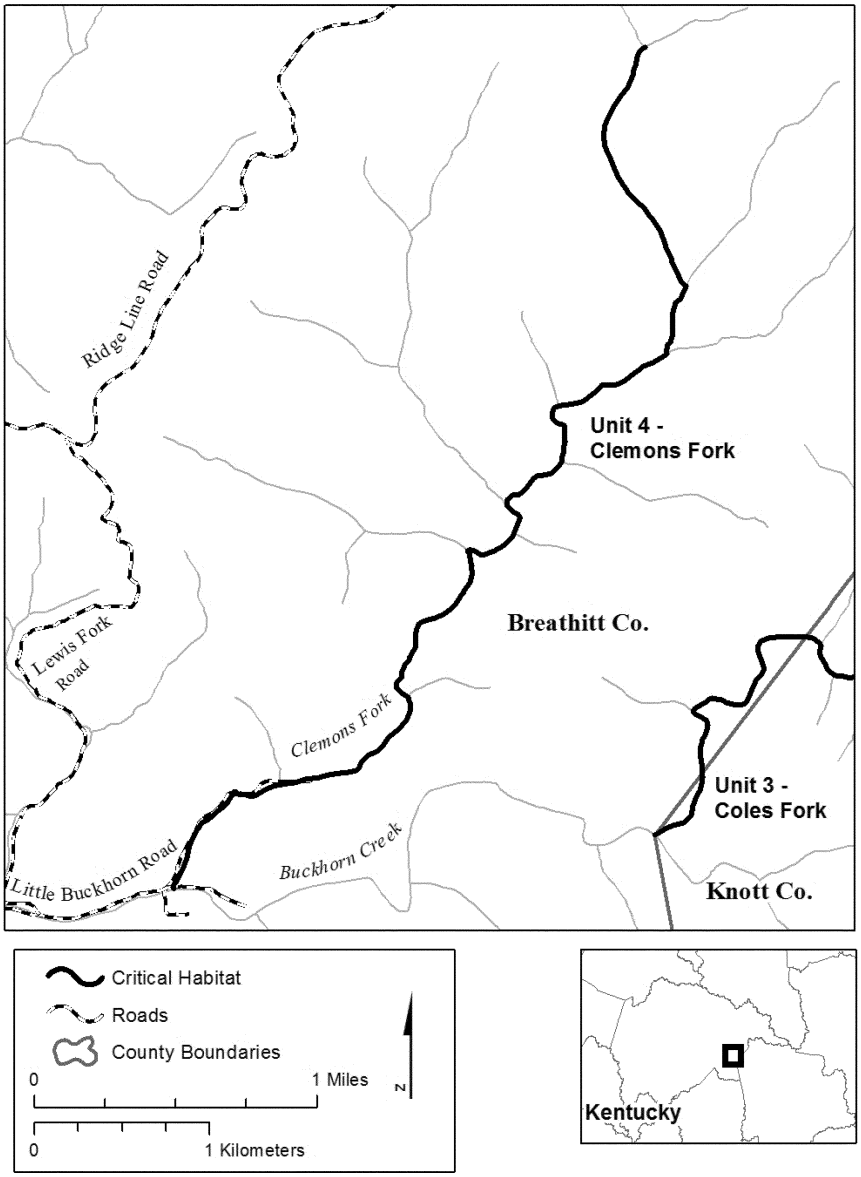


(8) Unit 4: Clemons Fork, Breathitt County, Kentucky.

(i) Unit 4 includes 7.0 skm (4.4 smi) of Clemons Fork from its headwaters at (37.49772, −83.13390), downstream to its confluence with Buckhorn Creek (37.45511, −83.16582) in Breathitt County, Kentucky.

(ii) Map of Unit 4 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 4 - Clemons Fork: Breathitt County, Kentucky



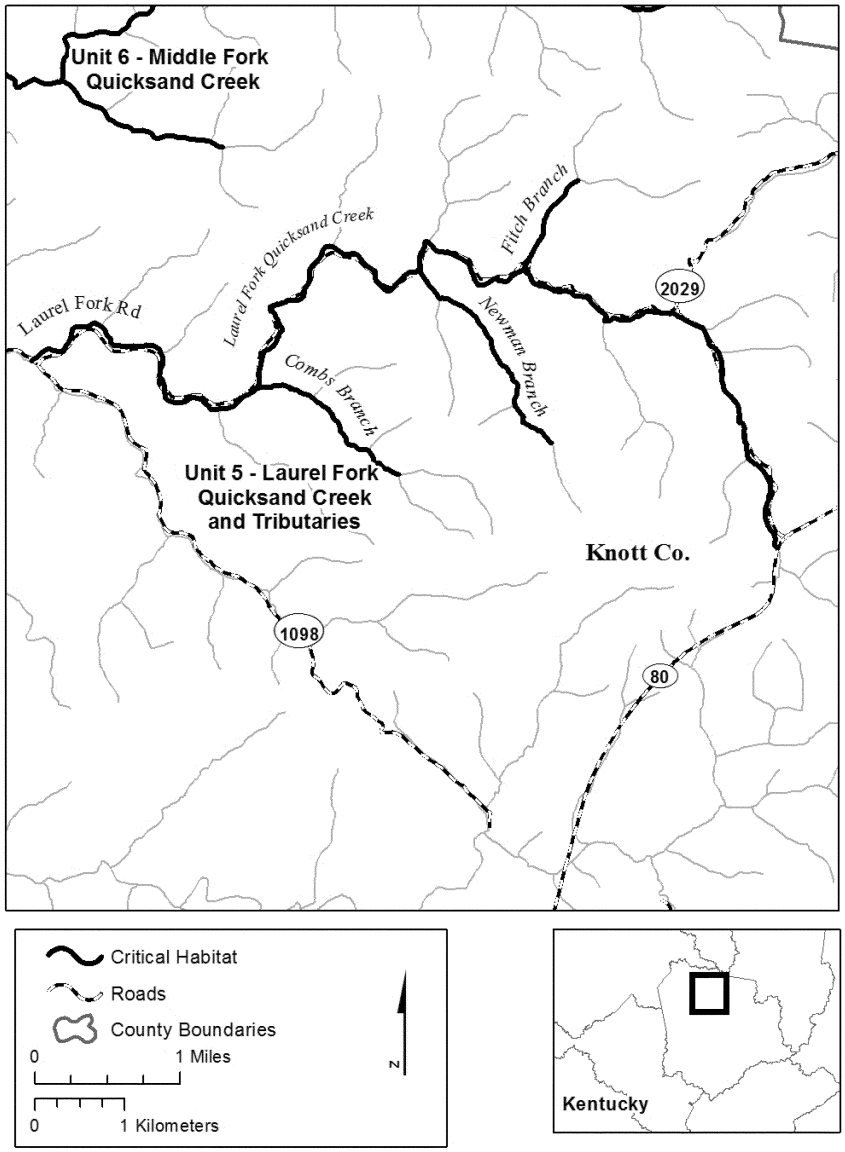
(9) Unit 5: Laurel Fork Quicksand Creek and Tributaries, Knott County, Kentucky.

(i) Unit 5 includes 1.2 skm (0.8 smi) of Fitch Branch from its headwaters at (37.46745, −82.95373), downstream to its confluence with Laurel Fork Quicksand Creek (37.45855, −82.96089); 2.7 skm (1.7 smi) of Newman Branch from its headwaters at (37.44120,

−82.95810), downstream to its confluence with Laurel Fork Quicksand Creek (37.45893, −82.97417); 2.1 skm (1.3 smi) of Combs Branch from its headwaters at (37.43848, −82.97731), downstream to its confluence with Laurel Fork Quicksand Creek (37.44758, −82.99476); and 13.8 skm (8.6 smi) of Laurel Fork Quicksand Creek from its headwaters at (37.43001, −82.93016), downstream to its confluence with Quicksand Creek (37.45100, −83.02303) in Knott County, Kentucky.

(ii) Map of Unit 5 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 5 - Laurel Fork Quicksand Creek and Tributaries: Knott County, Kentucky



(10) Unit 6: Middle Fork Quicksand Creek and Tributaries, Knott County, and Unit 7: Spring Fork Quicksand Creek, Breathitt County, Kentucky.

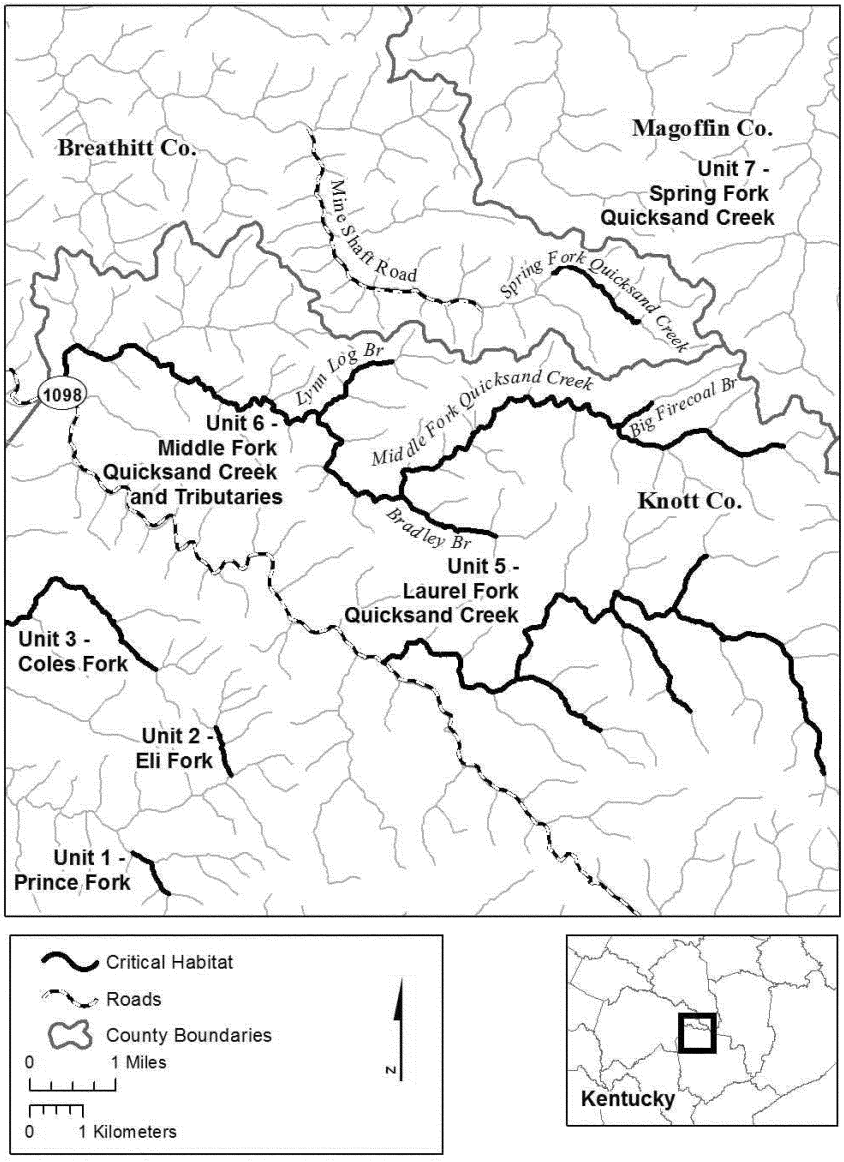
(i) Unit 6 includes 0.8 skm (0.5 smi) of Big Firecoal Branch from its headwaters at (37.49363, −82.96426), downstream to its confluence with Middle Fork Quicksand Creek

(37.48990, −82.97148); 2.1 skm (1.3 smi) of Bradley Branch from its headwaters at (37.47180, −82.99819), downstream to its confluence with Middle Fork Quicksand Creek (37.47899, −83.01823); 2.0 skm (1.2 smi) of Lynn Log Branch from its headwaters at (37.50190, −83.01921), downstream to its confluence with Middle Fork Quicksand Creek (37.49286. −83.03524); and 20.3 skm (12.6 smi) of Middle Fork Quicksand Creek from its headwaters at (37.48562, −82.93667), downstream to its confluence with Quicksand Creek (37.498281, −83.092946) in Knott County, Kentucky.

(ii) Unit 7 includes 2.2 skm (1.4 smi) of Spring Fork Quicksand Creek from its headwaters at (37.50746, −82.96647), downstream to its confluence with Laurel Fork (37.51597, −82.98436) in Breathitt County, Kentucky.

(iii) Map of Units 6 and 7 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 6 - Middle Fork Quicksand Creek and Tributaries: Knott County, Kentucky
Unit 7 - Spring Fork Quicksand Creek: Breathitt County, Kentucky



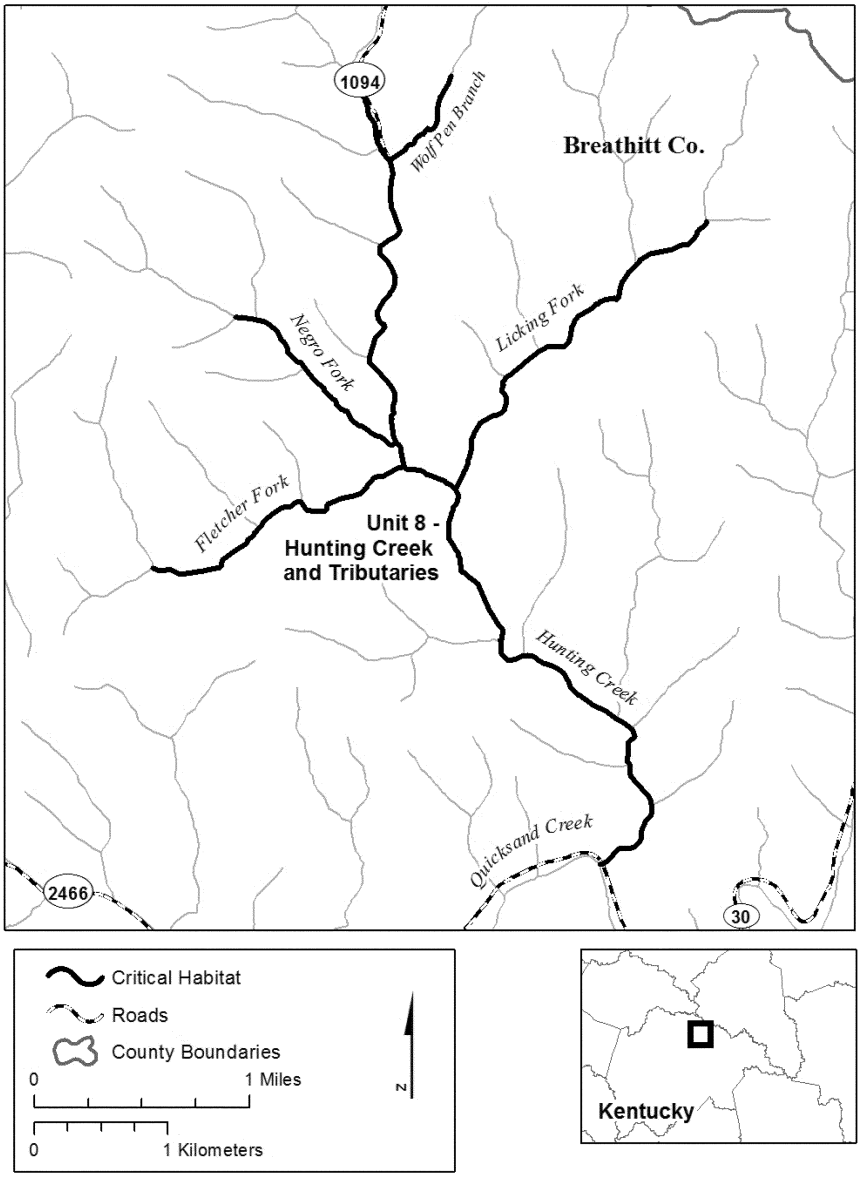
(11) Unit 8: Hunting Creek and Tributaries, Breathitt County, Kentucky.

(i) Unit 8 includes 0.9 skm (0.5 smi) of Wolf Pen Branch from its headwaters at (37.64580, −83.23885), downstream to its confluence with Hunting Creek (37.64023, −83.24424); 1.6 skm (1.0 smi) of Negro Fork from its headwaters at (37.62992, −83.25760), downstream to

its confluence with Hunting Creek (37.62121, −83.24433); 2.3 skm (1.4 smi) of Fletcher Fork from its headwaters at (37.61315, −83.26521), downstream to its confluence with Hunting Creek (37.61956, −83.24370); 3.1 skm (1.9 smi) of Licking Fork from its headwaters at (37.63553, −83.21754, −83.21754), downstream to its confluence with Hunting Creek (37.61794, −83.23938); and 7.7 skm (4.8 smi) of Hunting Creek from its confluence with Wells Fork (37.64629, −83.24708), downstream to its confluence with Quicksand Creek (37.59235, −83.22803) in Breathitt County, Kentucky.

(ii) Map of Unit 8 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 8 - Hunting Creek and Tributaries: Breathitt County, Kentucky



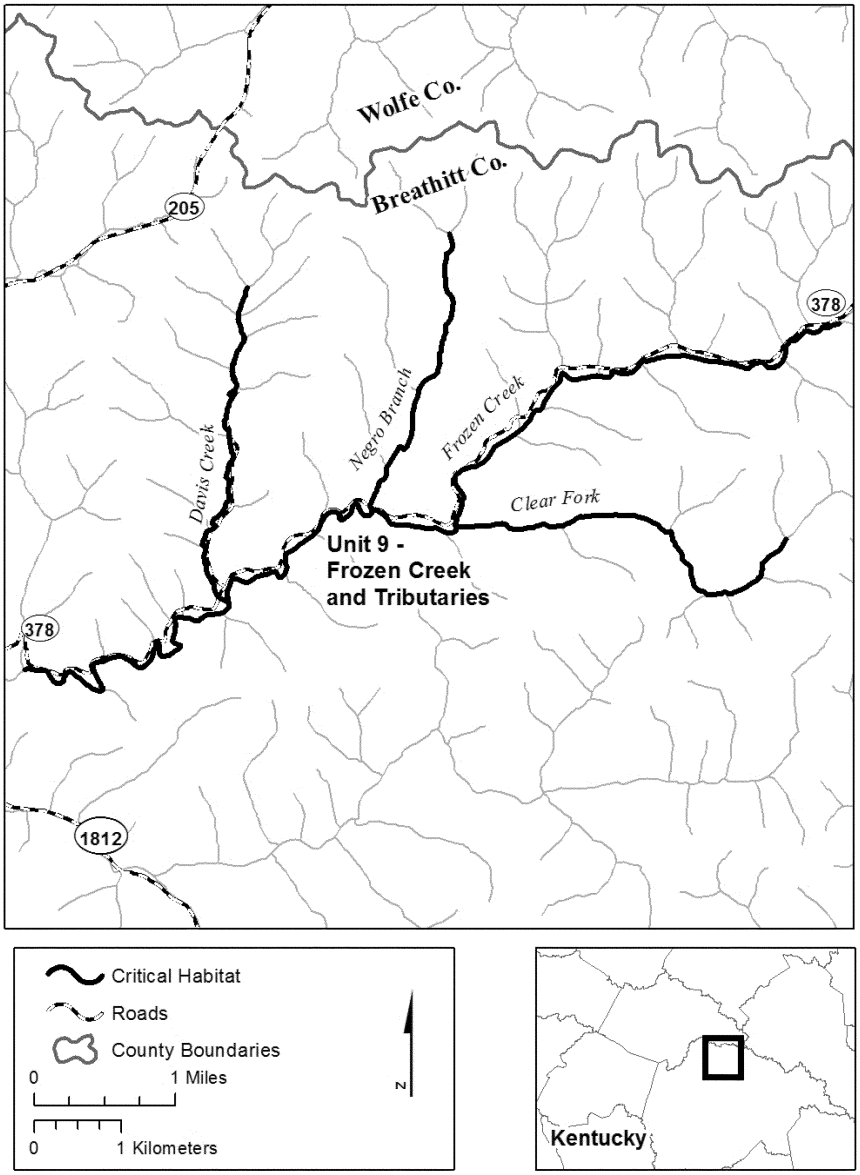
(12) Unit 9: Frozen Creek and Tributaries, Breathitt County, Kentucky.

(i) Unit 9 includes 4.7 skm (2.9 smi) of Clear Fork from its headwaters at (37.63899, −83.27706), downstream to its confluence with Frozen Creek (37.64109, −83.31969); 3.6 skm (2.3 smi) of Negro Branch from its headwaters at (37.67146, −83.31971), downstream to

its confluence with Frozen Creek (37.64319, −83.33068); 4.2 skm (2.6 smi) of Davis Creek from its headwaters at (37.66644, −83.34599), downstream to its confluence with Frozen Creek (37.63402, −83.34953); and 13.9 skm (8.6 smi) of Frozen Creek from its headwaters at (37.66115, −83.26945), downstream to its confluence with Morgue Fork (37.62761, −83.37622) in Breathitt County, Kentucky.

(ii) Map of Unit 9 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 9 - Frozen Creek and Tributaries: Breathitt County, Kentucky

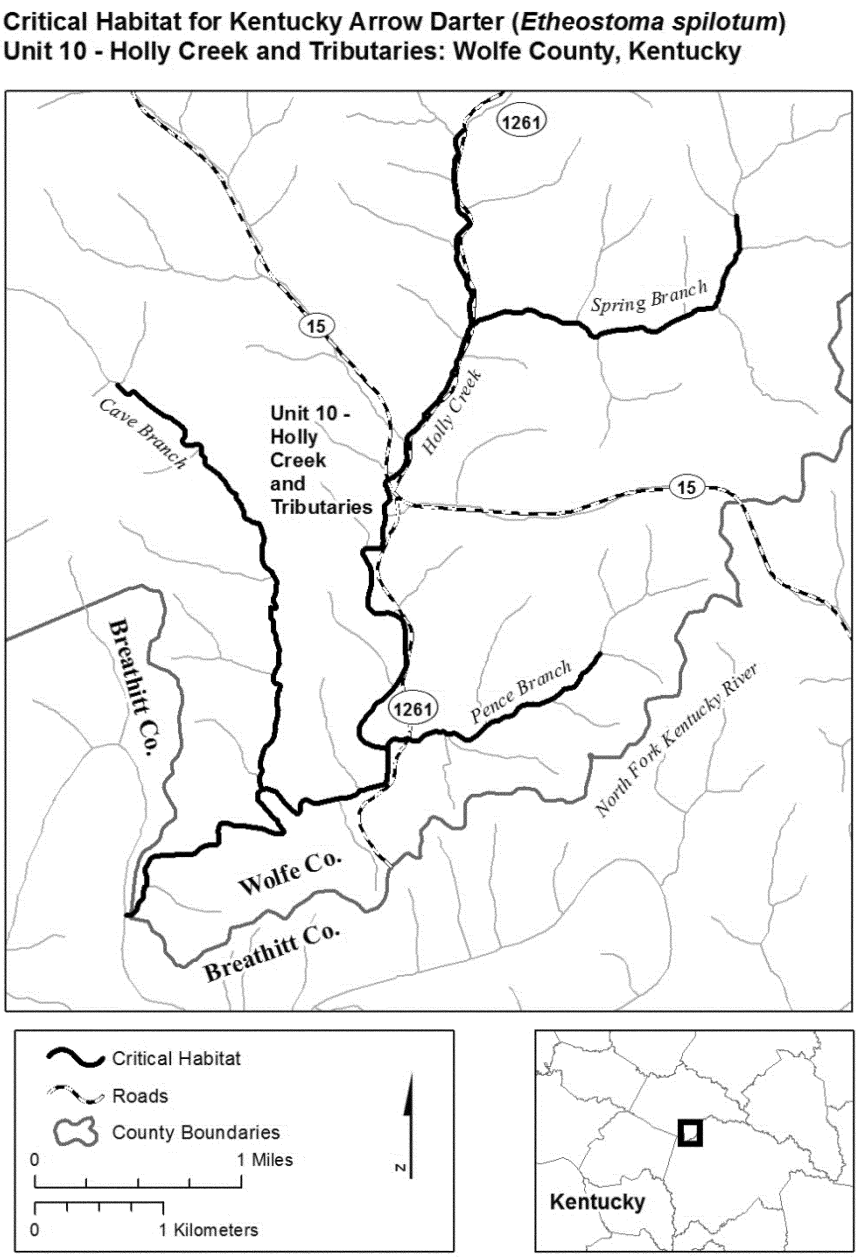


(13) Unit 10: Holly Creek and Tributaries, Wolfe County, Kentucky.

(i) Unit 10 includes 2.8 skm (1.8 smi) of Spring Branch from its headwaters at (37.67110, −83.44406), downstream to its confluence with Holly Creek (37.66384, −83.46780) in Wolfe County; 2.0 skm (1.3 smi) of Pence Branch from its headwaters at (37.64048,

−83.45703), downstream to its confluence with Holly Creek (37.63413, −83.47608) in Wolfe County; 4.0 skm (2.5 mi) of Cave Branch from its headwaters at (37.66023, −83.49916), downstream to its confluence with Holly Creek (37.63149, −83.48725) in Wolfe County; 9.5 skm (5.9 smi) of Holly Creek from KY 1261 (37.67758, −83.46792) in Wolfe County, downstream to its confluence with the North Fork Kentucky River (37.62289, −83.49948) in Wolfe County, Kentucky.

(ii) Map of Unit 10 follows:



(14) Unit 11: Little Fork, Lee and Wolfe Counties; Unit 12: Walker Creek and Tributaries, Lee and Wolfe Counties; and Unit 13: Hell Creek and Tributaries, Lee County, Kentucky.

(i) Unit 11 includes 3.8 skm (2.3 smi) of Little Fork from its headwaters at (37.68456,

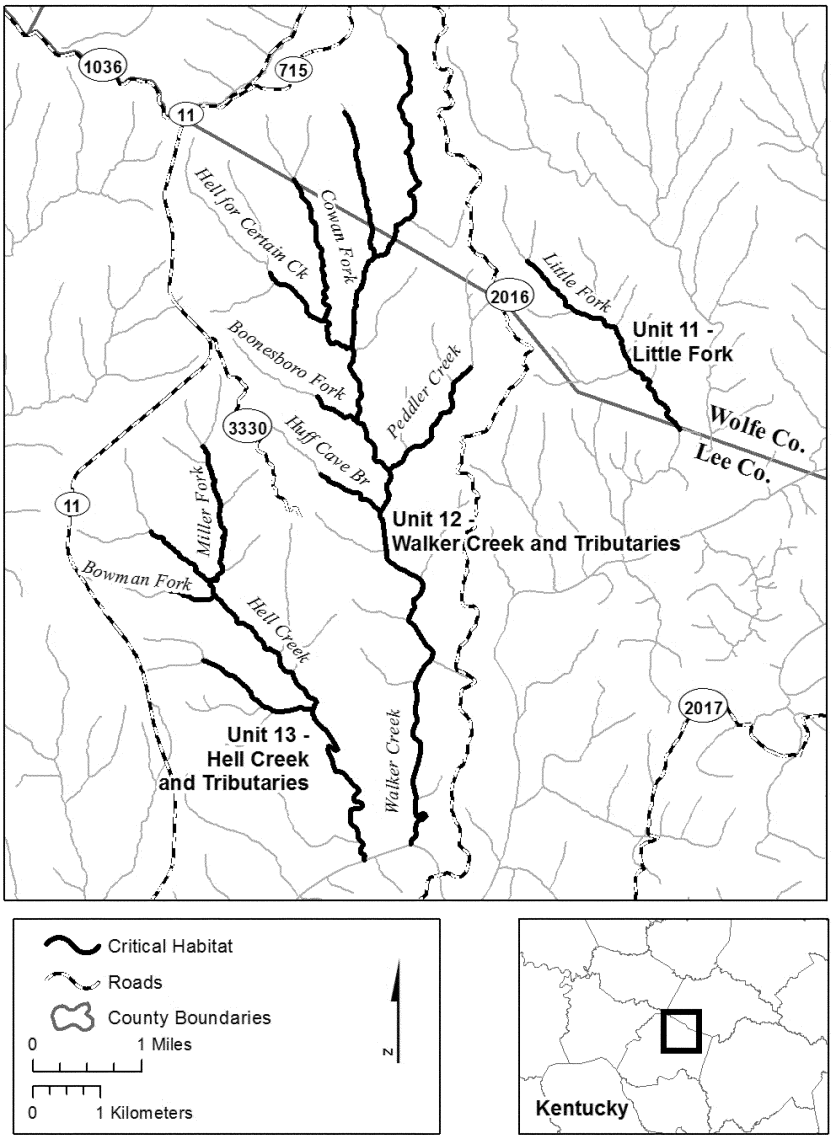
−83.62465) in Wolfe County, downstream to its confluence with Lower Devil Creek (37.66148, −83.59961) in Lee County, Kentucky.

(ii) Unit 12 includes 3.9 skm (2.4 smi) of an unnamed tributary of Walker Creek from its headwaters at (37.71373, −83.64553) in Wolfe County, downstream to its confluence with Walker Creek (37.68567, −83.65045) in Lee County; 2.4 skm (1.5 smi) of Cowan Fork from its headwaters at (37.69624, −83.66366) in Wolfe County, downstream to its confluence with Hell for Certain Creek (37.67718, −83.65931) in Lee County; 2.0 skm (1.2 smi) of Hell for Certain Creek from an unnamed reservoir at (37.68377, −83.66804), downstream to its confluence with Walker Creek (37.67340, −83.65449) in Lee County; 0.8 skm (0.5 smi) of Boonesboro Fork from its headwaters at (37.66706, −83.66053), downstream to its confluence with Walker Creek (37.66377, −83.65408) in Lee County; 2.2 skm (1.4 smi) of Peddler Creek from its headwaters at (37.67054, −83.63456), downstream to its confluence with Walker Creek (37.65696, −83.64879) in Lee County; 1.1 skm (0.7 smi) of Huff Cave Branch from its headwaters at (37.65664, −83.66033), downstream to its confluence with Walker Creek (37.65138, −83.65034) in Lee County; and 12.6 skm (7.8 smi) of Walker Creek from an unnamed reservoir (37.70502, −83.65490) in Wolfe County, downstream to its confluence with North Fork Kentucky River (37.60678, −83.64652) in Lee County, Kentucky.

(iii) Unit 13 includes 2.3 skm (1.4 smi) of Miller Fork from its headwaters at (37.66074, −83.68005), downstream to its confluence with Hell Creek (37.64261, −83.67912); 0.7 skm (0.4 smi) of Bowman Fork from its headwaters at (37.64142, −83.68594), downstream to its confluence with Hell Creek (37.64070, −83.67848); 1.9 skm (1.2 smi) of an unnamed tributary of Hell Creek from its headwaters at (37.63199, −83.83.68064), downstream to its confluence with Hell Creek (37.62516, −83.66246); and 7.1 skm (4.4 smi) of Hell Creek from an unnamed reservoir (37.64941, −83.68907), downstream to its confluence with North Fork Kentucky River (37.60480. −83.65440) in Lee County, Kentucky.

(iv) Map of Units 11, 12, and 13 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 11 - Little Fork: Lee and Wolfe Counties, Kentucky
Unit 12 - Walker Creek and Tributaries: Wolfe and Lee Counties, Kentucky
Unit 13 - Hell Creek and Tributaries: Lee County, Kentucky

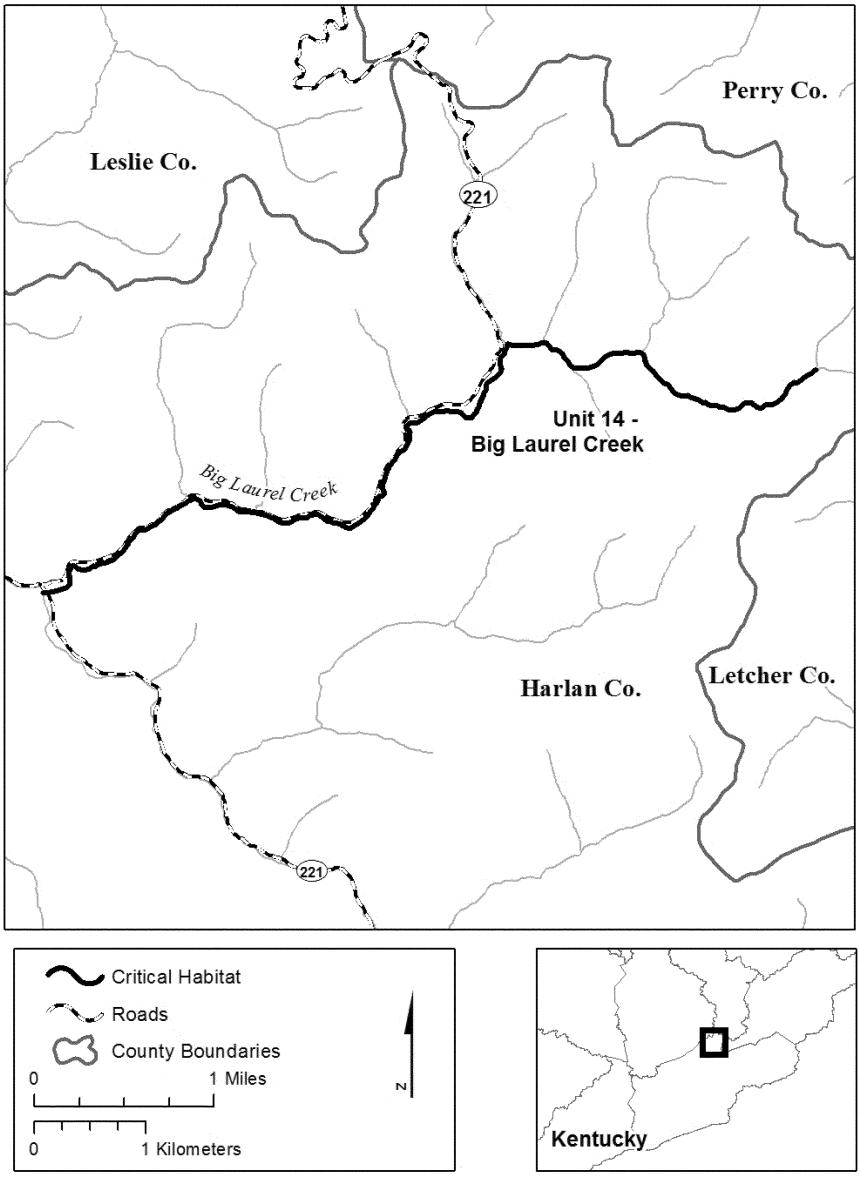


(15) Unit 14: Big Laurel Creek, Harlan County, Kentucky.

(i) Unit 14 includes 9.1 skm (5.7 smi) of Big Laurel Creek from its confluence with Combs Fork (36.99520, −83.14086), downstream to its confluence with Greasy Creek (36.97893, −83.21907) in Harlan County, Kentucky.

(ii) Map of Unit 14 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 14 - Big Laurel Creek: Harlan County, Kentucky

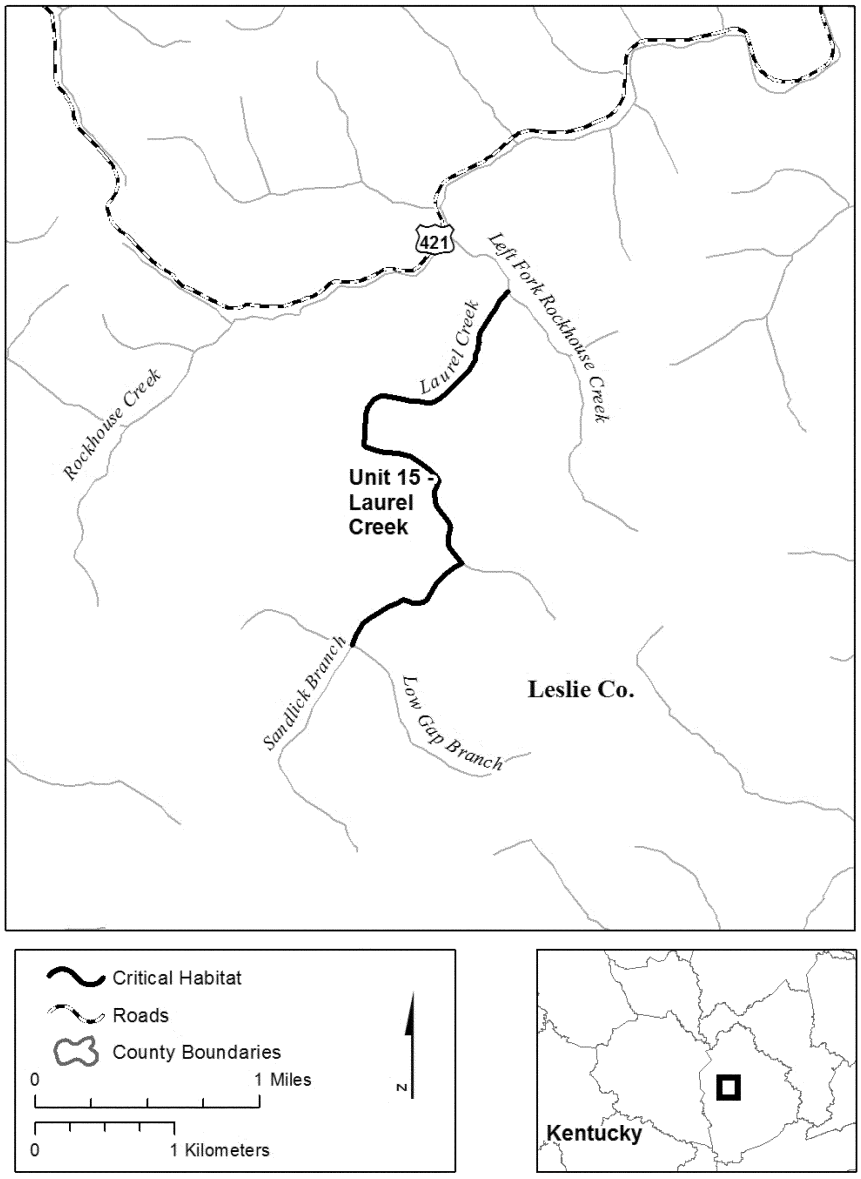


(16) Unit 15: Laurel Creek, Leslie County, Kentucky.

(i) Unit 15 includes 4.1 skm (2.6 smi) of Laurel Creek from its confluence with Sandlick Branch (37.10825, −83.45036), downstream to its confluence with Left Fork Rockhouse Creek (37.13085, −83.43699) in Leslie County, Kentucky.

(ii) Map of Unit 15 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 15 - Laurel Creek: Leslie County, Kentucky

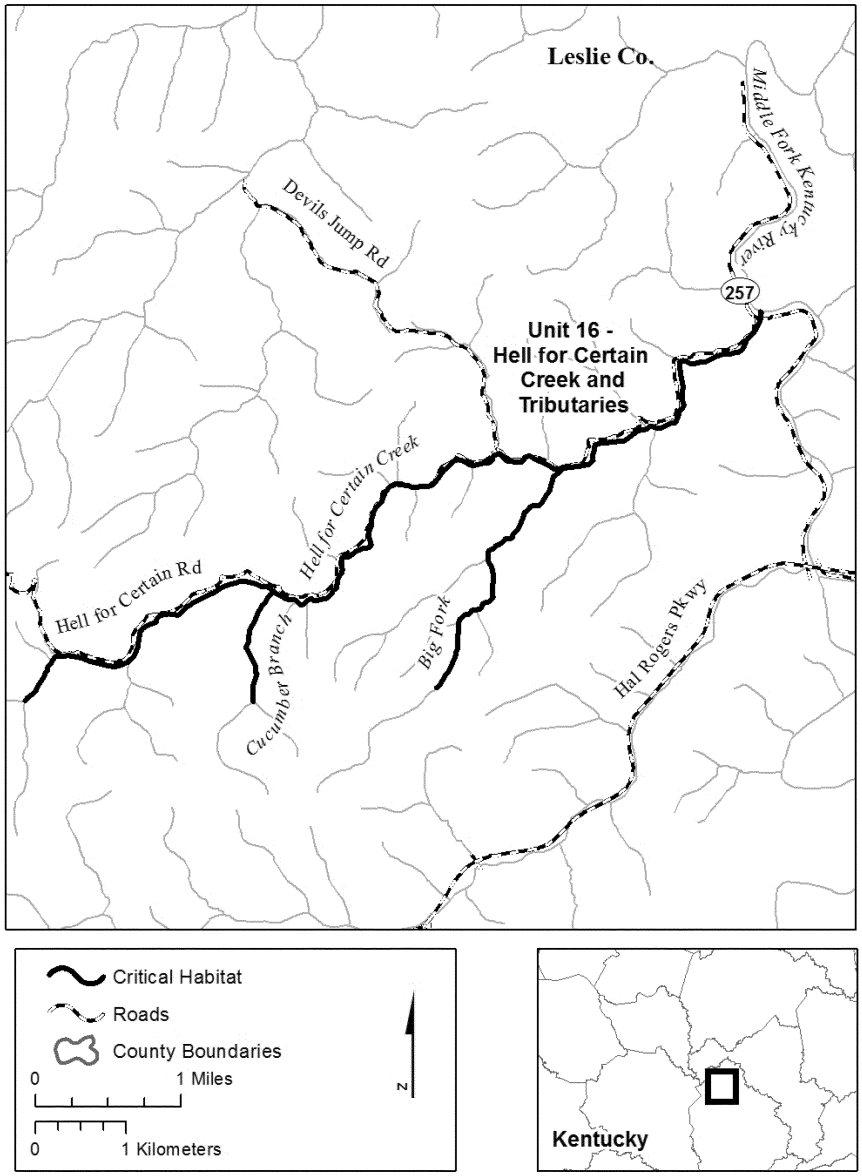


(17) Unit 16: Hell For Certain Creek and Tributaries, Leslie County, Kentucky.

(i) Unit 16 includes 1.3 skm (0.8 smi) of Cucumber Branch from its headwaters at (37.20839, −83.44644), downstream to its confluence with Hell For Certain Creek (37.21929, −83.44355); 3.1 skm (1.9 smi) of Big Fork from its headwaters at (37.20930, −83.42356), downstream to its confluence with Hell For Certain Creek (37.23082, −83.40720); and 11.4 skm (7.1 smi) of Hell For Certain Creek from its headwaters at (37.20904, −83.47489), downstream to its confluence with the Middle Fork Kentucky River (37.24611, −83.38192) in Leslie County, Kentucky.

(ii) Map of Unit 16 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 16 - Hell for Certain Creek and Tributaries: Leslie County, Kentucky

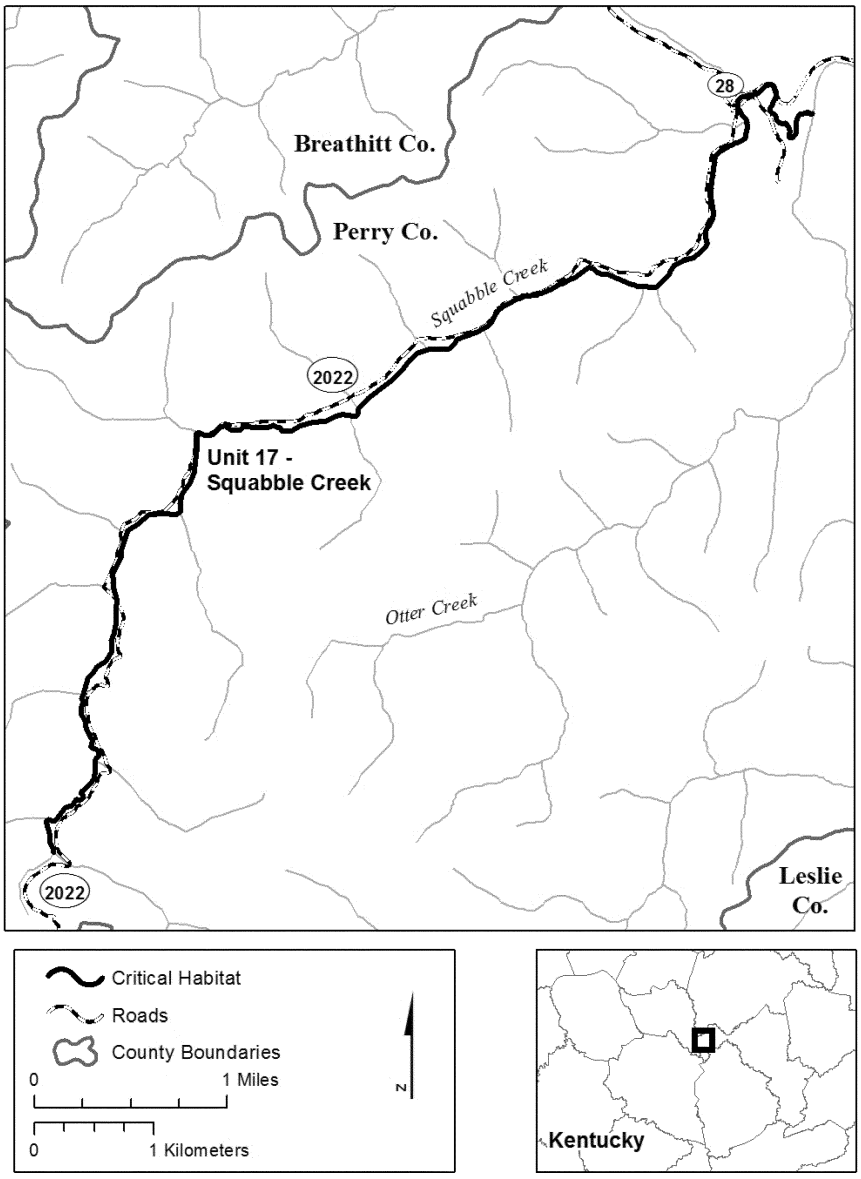


(18) Unit 17: Squabble Creek, Perry County, Kentucky.

(i) Unit 17 includes 12.0 skm (7.5 smi) of Squabble Creek from its confluence with Long Fork (37.29162, −83.54202), downstream to its confluence with the Middle Fork Kentucky River (37.34597, −83.46883) in Perry County, Kentucky.

(ii) Map of Unit 17 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 17 - Squabble Creek: Perry County, Kentucky



(19) Unit 18: Blue Hole Creek and Left Fork Blue Hole Creek, Unit 19: Upper Bear Creek and Tributaries, Unit 20: Katies Creek, and Unit 21: Spring Creek and Little Spring Creek, Clay County; and Unit 22: Bowen Creek and Tributaries, Leslie County, Kentucky.

(i) Unit 18 includes 1.8 skm (1.1 smi) of Left Fork from its headwaters at (36.97278, −83.56898), downstream to its confluence with Blue Hole Creek (36.98297, −83.55687); and 3.9 skm (2.4 smi) of Blue Hole Creek from its headwaters at (36.98254, −83.57376), downstream to its confluence with the Red Bird River (36.99288, −83.53672) in Clay County, Kentucky.

(ii) Unit 19 includes 1.5 skm (1.0 smi) of Left Fork Upper Bear Creek from its headwaters at (36.99519, −83.58446), downstream to its confluence with Upper Bear Creek (37.00448, −83.57354); 0.8 skm (0.5 smi) of Right Fork Upper Bear Creek from its headwaters at (37.00858, −83.58013), downstream to its confluence with Upper Bear Creek (37.00448, −83.57354); and 4.5 skm (2.8 smi) of Upper Bear Creek from its confluence with Left Fork and Right Fork Upper Bear Creek (37.02109, −83.53423), downstream to its confluence with the Red Bird River (37.00448, −83.57354) in Clay County, Kentucky.

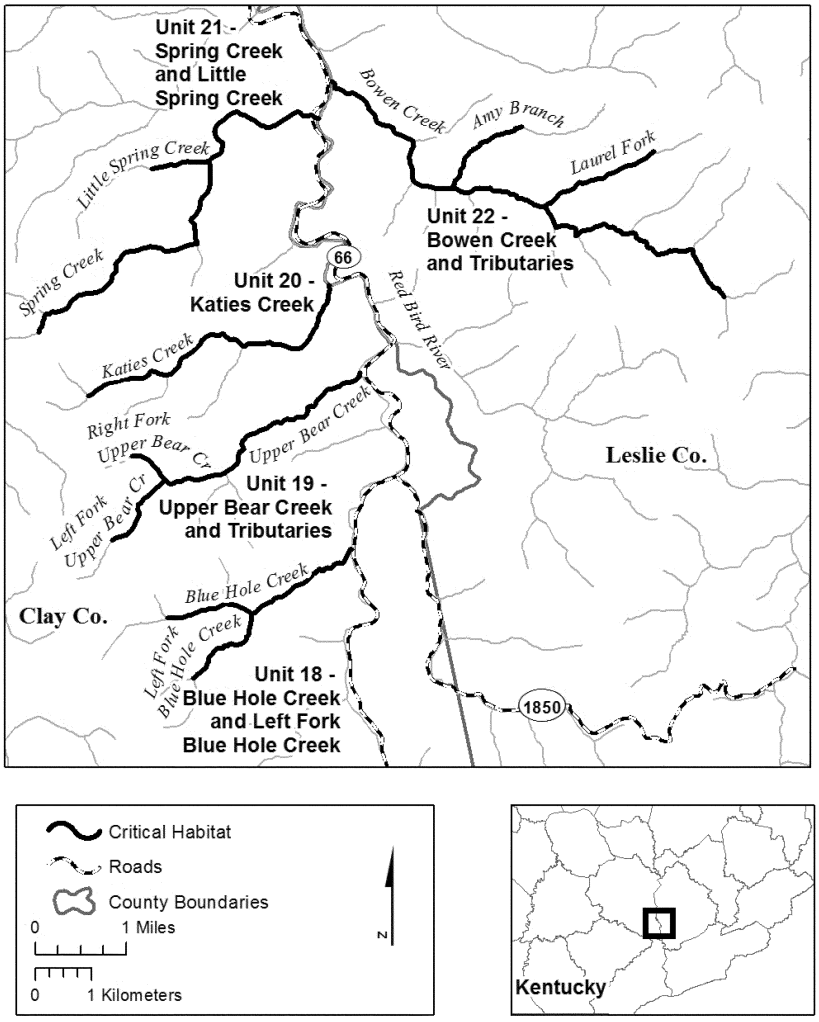
(iii) Unit 20 includes 5.7 skm (3.5 smi) of Katies Creek from its confluence with Cave Branch (37.01837, −83.58848), downstream to its confluence with the Red Bird River (37.03527, −83.53999) in Clay County, Kentucky.

(iv) Unit 21 includes 1.0 skm (0.6 smi) of Little Spring Creek from its headwaters at (37.05452, −83.57483), downstream to its confluence with Spring Creek (37.05555, −83.56339); and 8.2 skm (5.1 smi) of Spring Creek from its headwaters at (37.02874, −83.59815), downstream to its confluence with the Red Bird River (37.06189, −83.54134) in Clay County, Kentucky.

(v) Unit 22 includes 2.2 skm (1.4 smi) of Laurel Fork from its headwaters at (37.05536, −83.47452), downstream to its confluence with Bowen Creek (37.04702, −83.49641); 1.8 skm (1.1 smi) of Amy Branch from its headwaters at (37.05979, −83.50083), downstream to its confluence with Bowen Creek (37.05031, −83.51498); and 9.6 skm (6.0 smi) of Bowen Creek from its headwaters at (37.03183, −83.46124), downstream to its confluence with the Red Bird River (37.06777, −83.53840) in Leslie County, Kentucky.

(vi) Map of Units 18, 19, 20, 21, and 22 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 18 - Blue Hole Creek and Left Fork Blue Hole Creek: Clay County, Kentucky
Unit 19 - Upper Bear Creek and Tributaries: Clay County, Kentucky
Unit 20 - Katies Creek: Clay County, Kentucky
Unit 21 - Spring Creek and Little Spring Creek: Clay County, Kentucky
Unit 22 - Bowen Creek and Tributaries: Leslie County, Kentucky



(20) Unit 23: Elisha Creek and Tributaries, Leslie County; and Unit 24: Gilberts Big Creek, and Unit 25: Sugar Creek, Clay and Leslie Counties, Kentucky.

(i) Unit 23 includes 4.4 skm (2.7 smi) of Right Fork Elisha Creek from its headwaters at (37.07255, −83.47839), downstream to its confluence with Elisha Creek (37.08165,

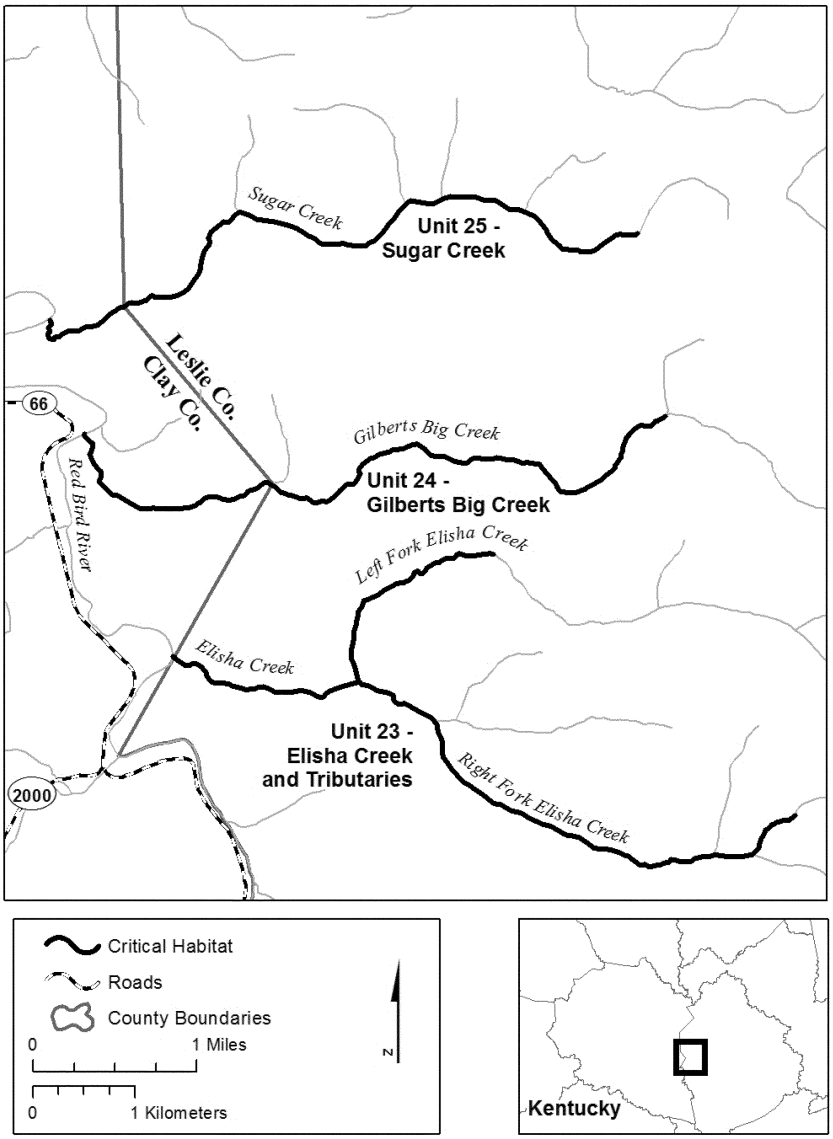
−83.51802); 2.3 skm (1.4 smi) of Left Fork Elisha Creek from its headwaters at (37.09632, −83.51108), downstream to its confluence with Elisha Creek (37.08528, −83.52645); and 2.9 skm (1.8 smi) of Elisha Creek from its confluence with Right Fork Elisha Creek (37.08165, −83.51802), downstream to its confluence with the Red Bird River (37.08794, −83.54676) in Leslie County, Kentucky.

(ii) Unit 24 includes 7.2 skm (4.5 smi) of Gilberts Big Creek from its headwaters at (37.10825, −83.49164) in Leslie County, downstream to its confluence with the Red Bird River (37.10784, −83.55590) in Clay County, Kentucky.

(iii) Unit 25 includes 7.2 skm (4.5 smi) of Sugar Creek from its headwaters at (37.12446, −83.49420) in Leslie County, downstream to its confluence with the Red Bird River (37.11804, −83.55952) in Clay County, Kentucky.

(iv) Map of Units 23, 24, and 25 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 23 - Elisha Creek and Tributaries: Leslie County, Kentucky
Unit 24 - Gilberts Big Creek: Clay and Leslie Counties, Kentucky
Unit 25 - Sugar Creek: Clay and Leslie Counties, Kentucky



(21) Unit 26: Big Double Creek and Tributaries, and Unit 27: Little Double Creek, Clay County, Kentucky.

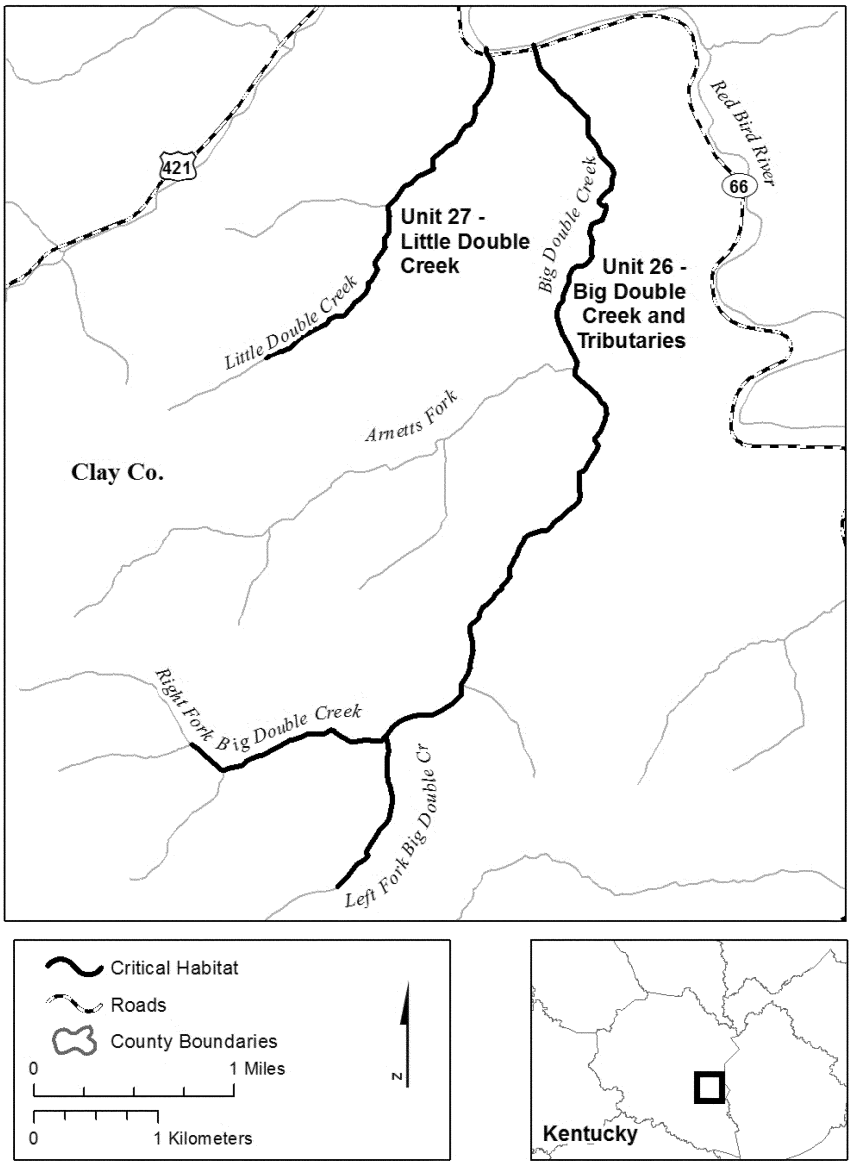
(i) Unit 26 includes 1.4 skm (0.9 smi) of Left Fork Big Double Creek from its headwaters at (37.07967, −83.60719), downstream to its confluence with Big Double Creek (37.09053,

−83.60245); 1.8 skm (1.1 smi) of Right Fork Big Double Creek from its headwaters at (37.09021, −83.62010), downstream to its confluence with Big Double Creek (37.09053, −83.60245); and 7.1 skm (4.4 smi) of Big Double Creek from its confluence with the Left and Right Forks (37.09053, −83.60245), downstream to its confluence with the Red Bird River (37.14045, −83.58768) in Clay County, Kentucky.

(ii) Unit 27 includes 3.4 skm (2.1 smi) of Little Double Creek from its headwaters at (37.11816, −83.61251), downstream to its confluence with the Red Bird River (37.14025, −83.59197) in Clay County, Kentucky.

(iii) Map of Units 26 and 27 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 26 - Big Double Creek and Tributaries: Clay County, Kentucky
Unit 27 - Little Double Creek: Clay County, Kentucky



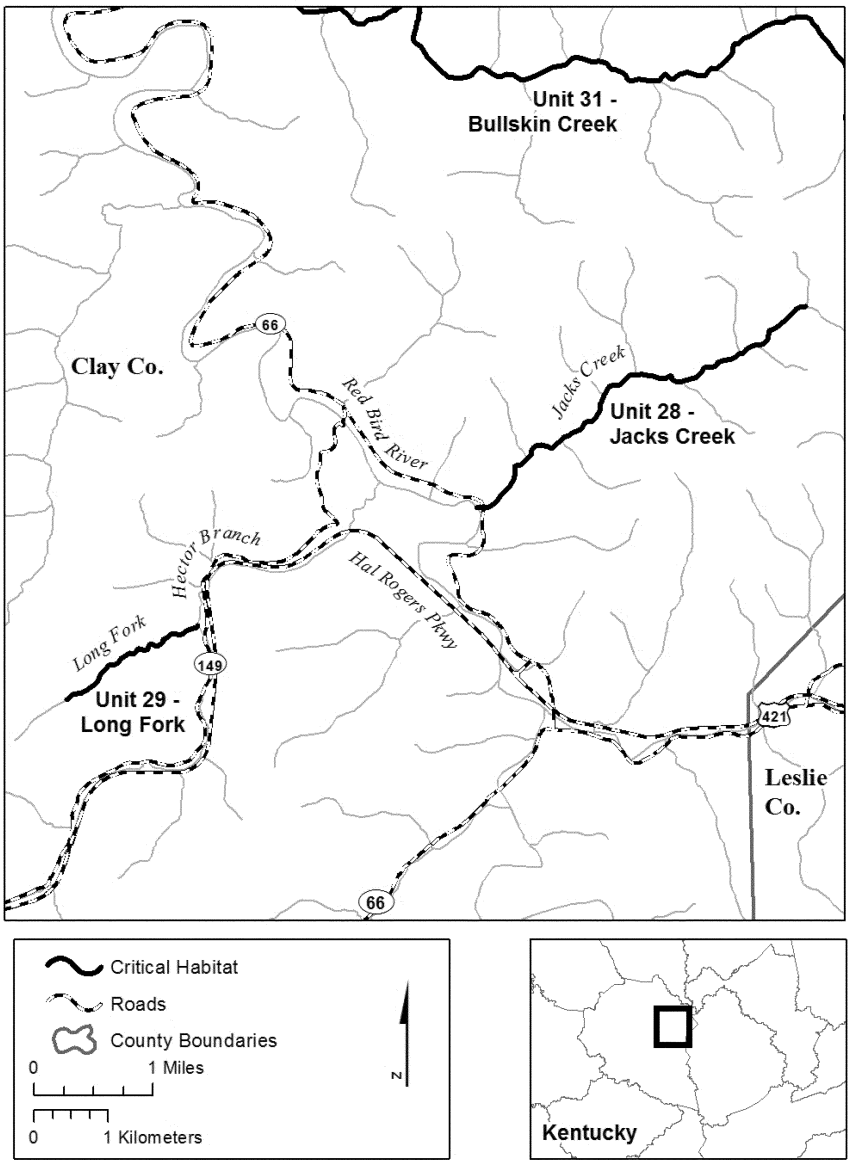
(22) Unit 28: Jacks Creek, and Unit 29: Long Fork, Clay County, Kentucky.

(i) Unit 28 includes 5.9 skm (3.7 smi) of Jacks Creek from its headwaters at (37.21472, −83.54108), downstream to its confluence with the Red Bird River (37.19113, −83.59185) in Clay County, Kentucky.

(ii) Unit 29 includes 2.2 skm (1.4 smi) of Long Fork from its headwaters at (37.16889, −83.65490), downstream to its confluence with Hector Branch (37.17752, −83.63464) in Clay County, Kentucky.

(iii) Map of Units 28 and 29 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 28 - Jacks Creek: Clay County, Kentucky
Unit 29 - Long Fork: Clay County, Kentucky

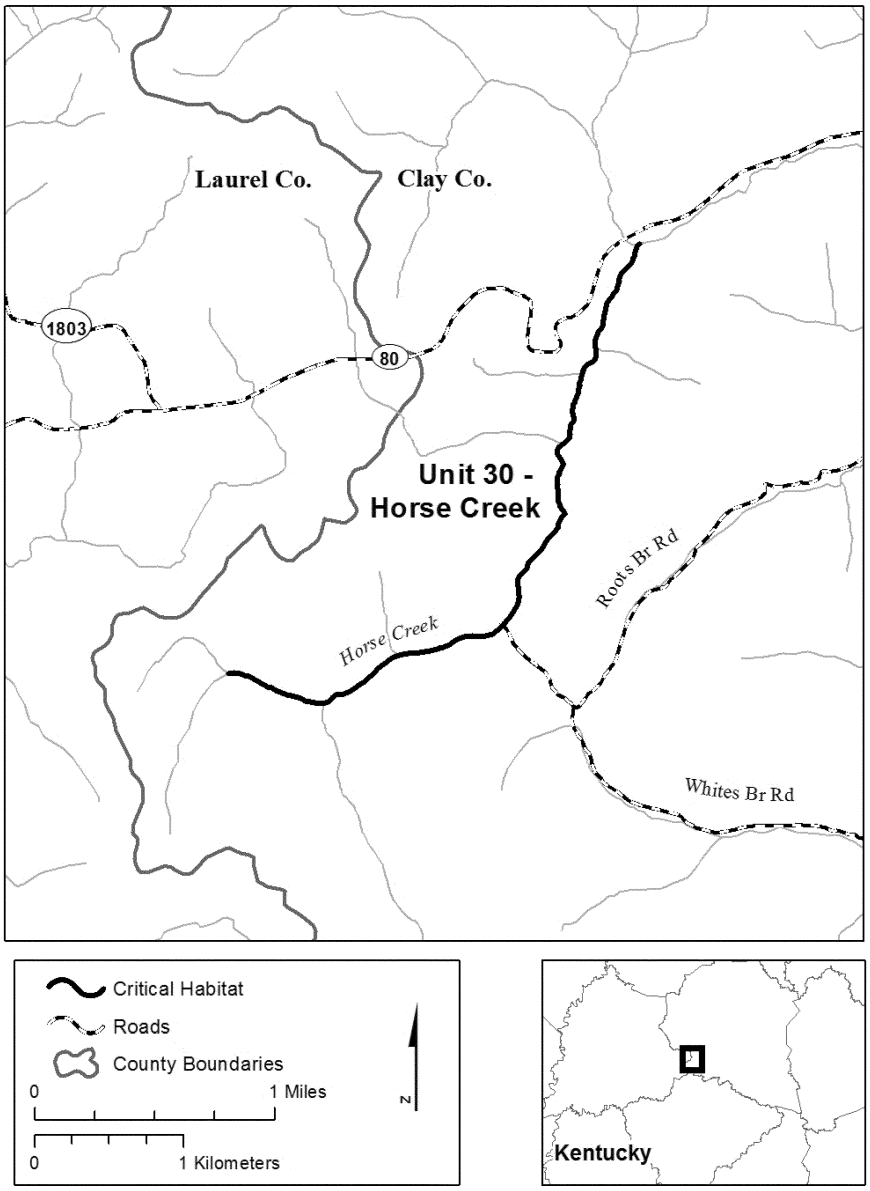


(23) Unit 30: Horse Creek, Clay County, Kentucky.

(i) Unit 30 includes 5.0 skm (3.1 smi) of Horse Creek from its headwaters at (37.07370, −83.87756), downstream to its confluence with Pigeon Roost Branch (37.09926, −83.84582) in Clay County, Kentucky.

(ii) Map of Unit 30 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 30 - Horse Creek: Clay County, Kentucky

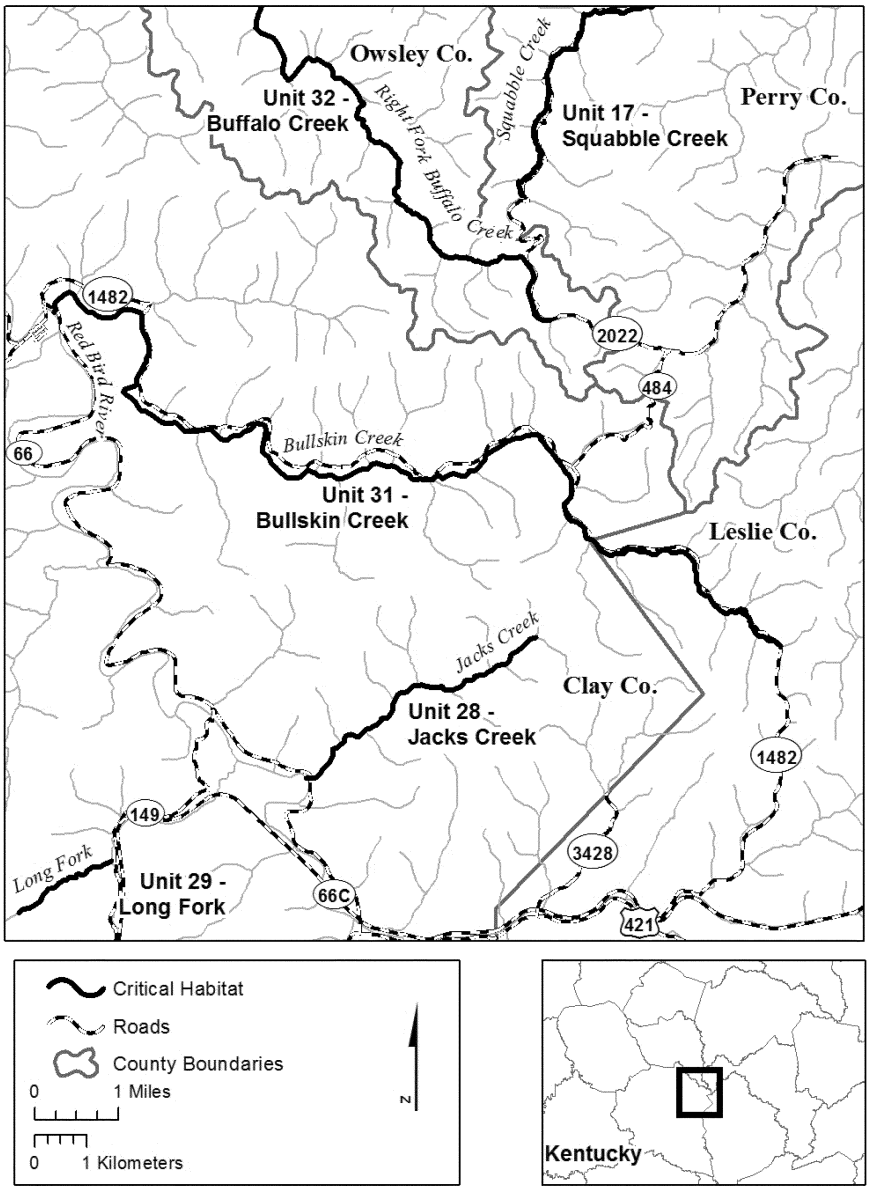


(24) Unit 31: Bullskin Creek, Clay and Leslie Counties, Kentucky.

(i) Unit 31 includes 21.7 skm (13.5 smi) of Bullskin Creek from its confluence with Old House Branch (37.21218, −83.48798) in Leslie County, downstream to its confluence with the South Fork Kentucky River (37.27322, −83.64441) in Clay County, Kentucky.

(ii) Map of Unit 31 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 31 - Bullskin Creek: Clay and Leslie Counties, Kentucky



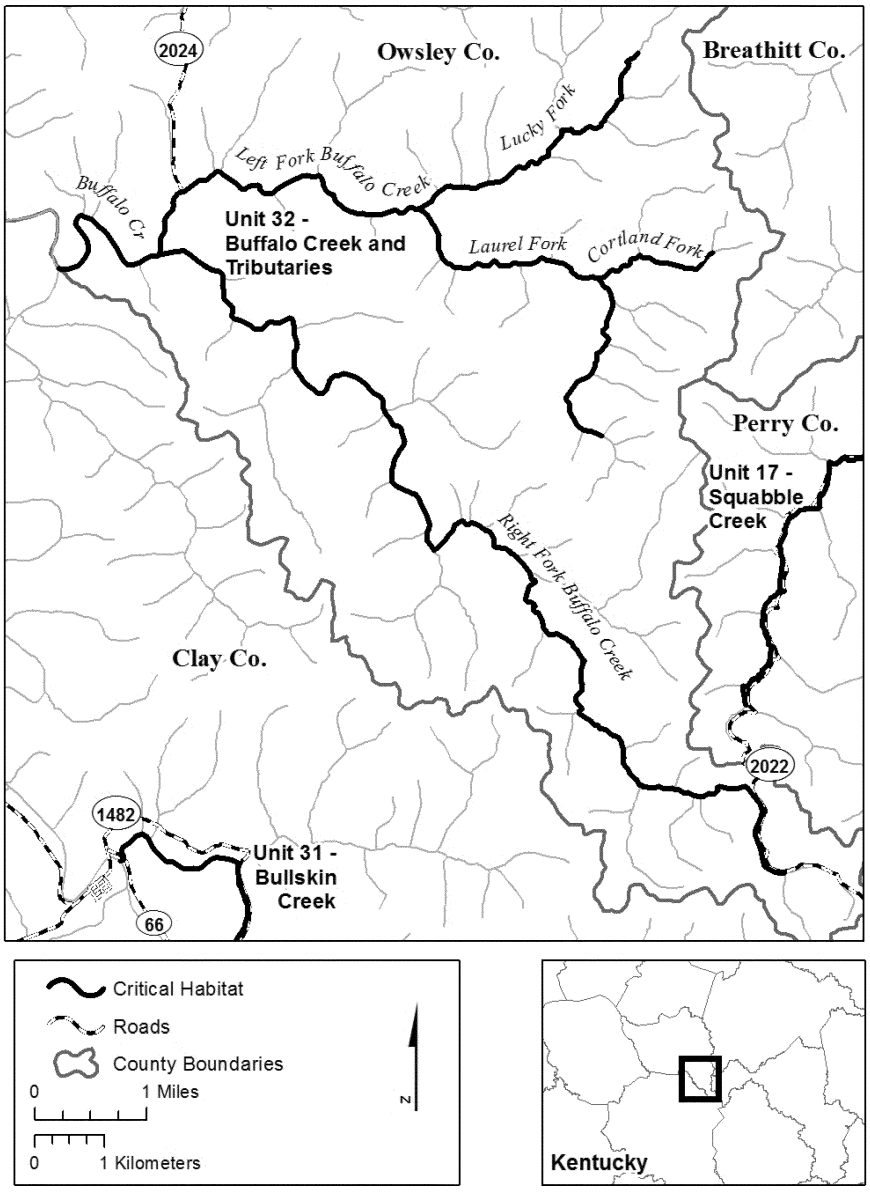
(25) Unit 32: Buffalo Creek and Tributaries, Owsley County, Kentucky.

(i) Unit 32 includes 2.0 skm (1.2 smi) of Cortland Fork from its headwaters at (37.35052, −83.54570), downstream to its confluence with Laurel Fork (37.34758, −83.56466); 6.4 skm (4.0 smi) of Laurel Fork from its headwaters at (37.32708, −83.56450),

downstream to its confluence with Left Fork Buffalo Creek (37.347758, −83.56466); 4.6 skm (2.9 smi) of Lucky Fork from its headwaters at (37.37682, −83.55711), downstream to its confluence with Left Fork Buffalo Creek (37.35713, −83.59367); 5.1 skm (3.2 smi) of Left Fork Buffalo Creek from its confluence with Lucky Fork and Left Fork (37.35713, −83.59367), downstream to its confluence with Buffalo Creek (37.35197, −83.63583); 17.3 skm (10.8 smi) of Right Fork Buffalo Creek from its headwaters at (37.26972, −83.53646), downstream to its confluence with Buffalo Creek (37.35197, −83.63583); and 2.7 skm (1.7 smi) of Buffalo Creek from its confluence with the Left and Right Forks (37.35197, −83.63583), downstream to its confluence with the South Fork Kentucky River (37.35051, −83.65233) in Owsley County, Kentucky.

(ii) Map of Unit 32 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 32 - Buffalo Creek and Tributaries: Owsley County, Kentucky



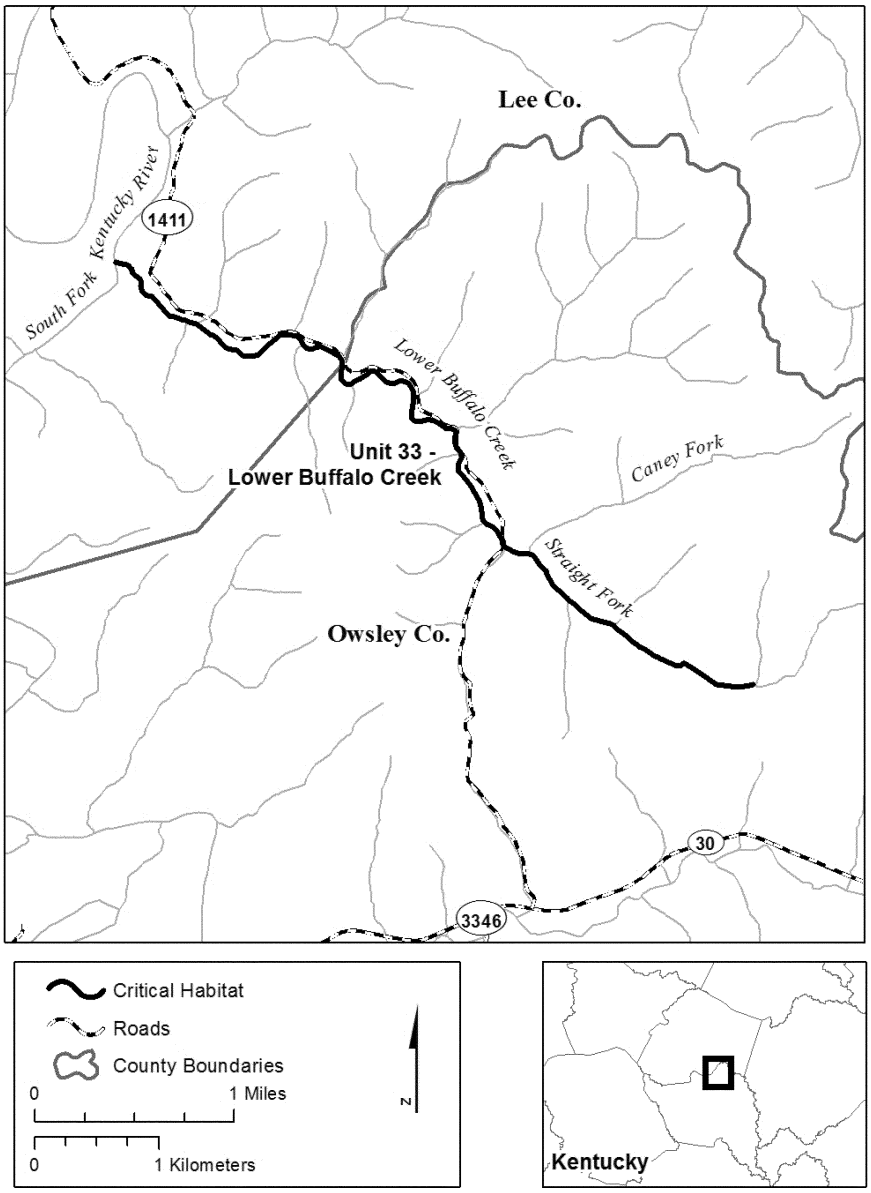
(26) Unit 33: Lower Buffalo Creek, Lee and Owsley Counties, Kentucky.

(i) Unit 33 includes 2.2 skm (1.4 smi) of Straight Fork from its headwaters at (37.49993, −83.62996), downstream to its confluence with Lower Buffalo Creek (37.50980, −83.65015) in Owsley County; and 5.1 skm (3.2

smi) of Lower Buffalo Creek from its confluence with Straight Fork (37.50980, −83.65015) in Owsley County, downstream to its confluence with the South Fork Kentucky River (37.53164, −83.68732) in Lee County, Kentucky.

(ii) Map of Unit 33 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 33 - Lower Buffalo Creek: Owsley and Lee Counties, Kentucky

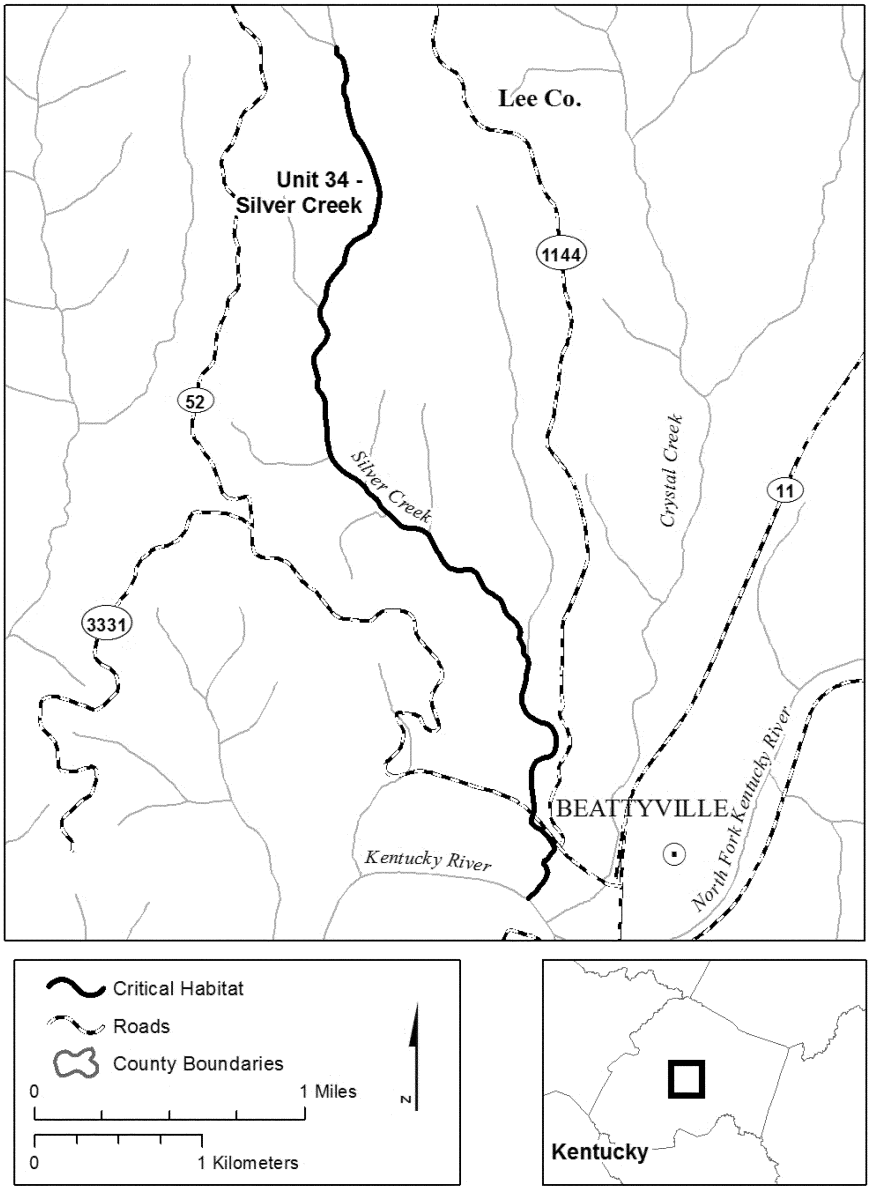


(27) Unit 34: Silver Creek, Lee County, Kentucky.

(i) Unit 34 includes 6.2 skm (3.9 smi) of Silver Creek from its headwaters at (37.61857, −83.72442), downstream to its confluence with the Kentucky River (37.57251, −83.71264) in Lee County, Kentucky.

(ii) Map of Unit 34 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 34 - Silver Creek: Lee County, Kentucky



(28) Unit 35: Travis Creek, Jackson County; Unit 36: Wild Dog Creek, Jackson and Owsley Counties; and Unit 37: Granny Dismal Creek, Owsley and Lee Counties, Kentucky.

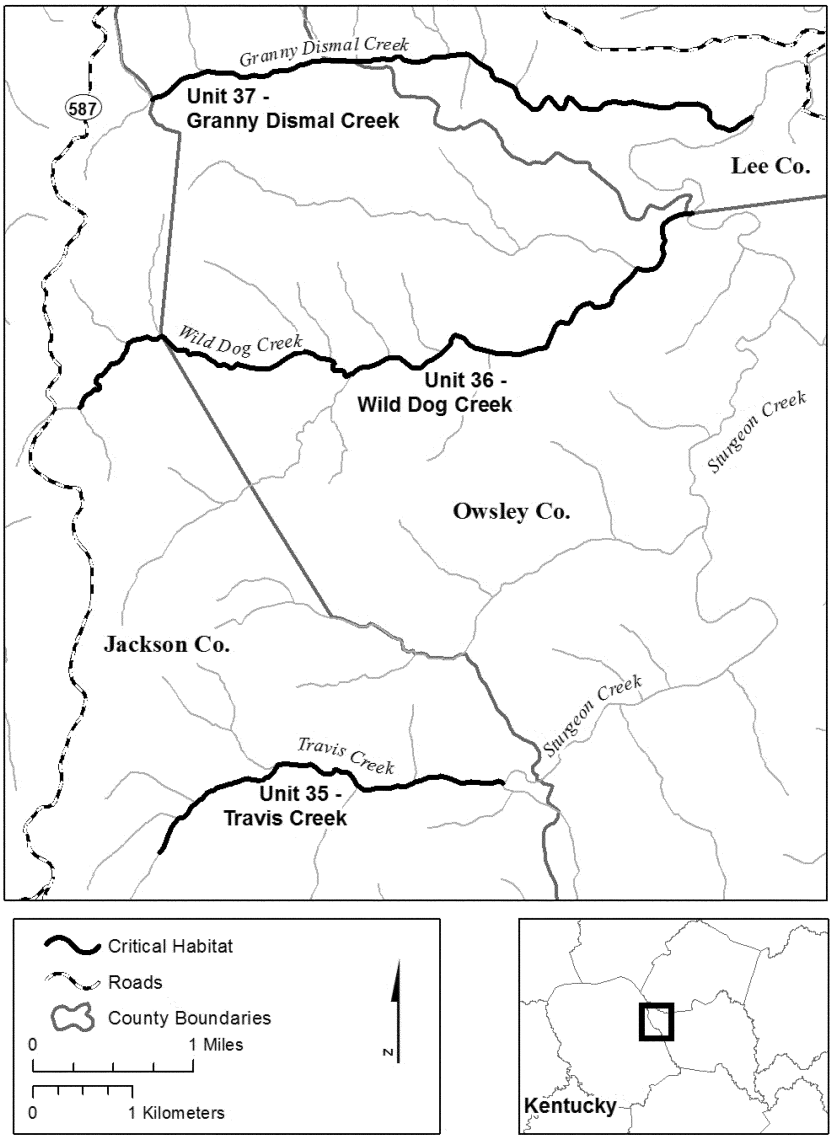
(i) Unit 35 includes 4.1 skm (2.5 smi) of Travis Creek from its headwaters at (37.43039, −83.88516), downstream to its confluence with Sturgeon Creek (37.43600, −83.84609) in Jackson County, Kentucky.

(ii) Unit 36 includes 8.1 skm (5.1 smi) of Wild Dog Creek from its headwaters at (37.47081, −83.89329) in Jackson County, downstream to its confluence with Sturgeon Creek (37.48730, −83.82319) in Owsley County, Kentucky.

(iii) Unit 37 includes 6.9 skm (4.3 smi) of Granny Dismal Creek from its headwaters at (37.49862, −83.88435) in Owsley County, downstream to its confluence with Sturgeon Creek (37.49586, −83.81629) in Lee County, Kentucky.

(iv) Map of Units 35, 36, and 37 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 35 - Travis Creek: Jackson County, Kentucky
Unit 36 - Wild Dog Creek: Jackson and Owsley Counties, Kentucky
Unit 37 - Granny Dismal Creek: Owsley and Lee Counties, Kentucky

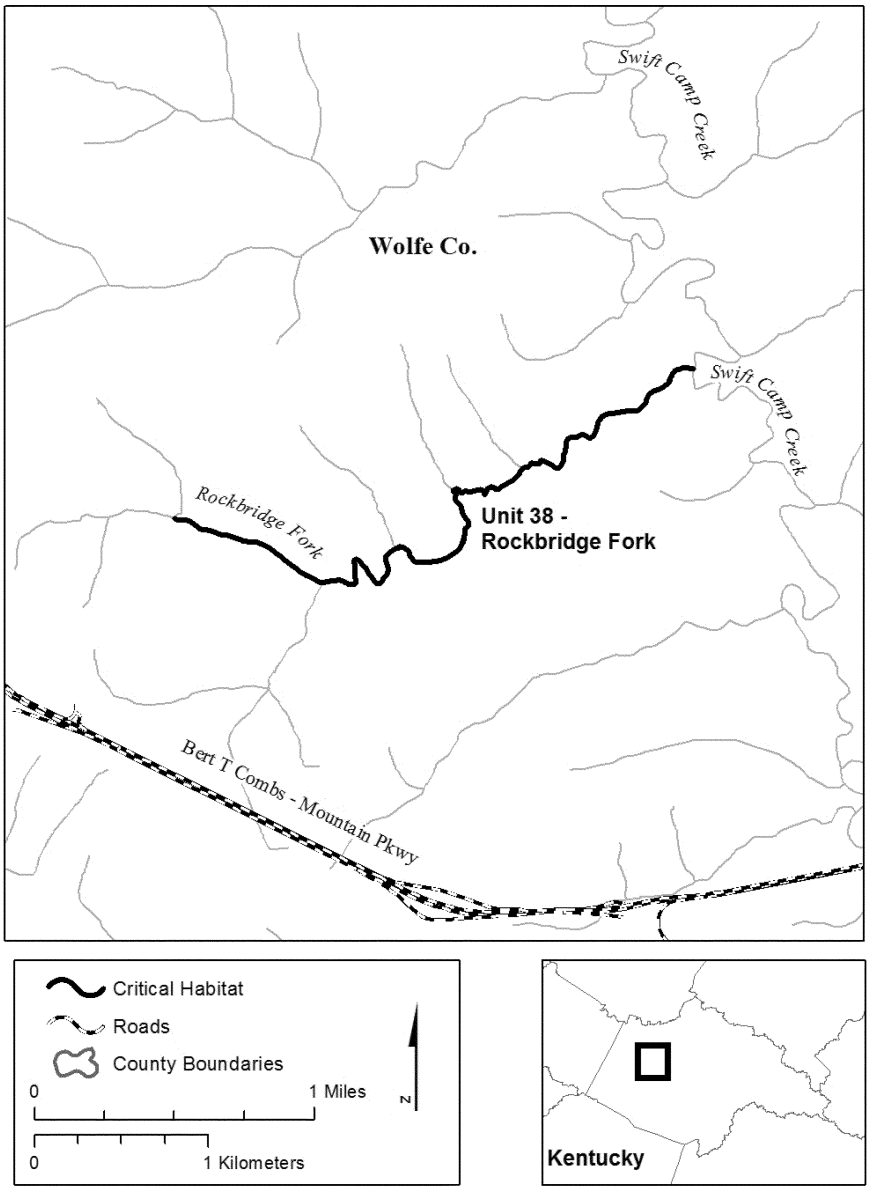


(29) Unit 38: Rockbridge Fork, Wolfe County, Kentucky.

(i) Unit 38 includes 4.5 skm (2.8 smi) of Rockbridge Fork from its headwaters at (37.76228, −83.59553), downstream to its confluence with Swift Camp Creek (37.76941, −83.56134) in Wolfe County, Kentucky.

(ii) Map of Unit 38 follows:

Critical Habitat for Kentucky Arrow Darter (*Etheostoma spilotum*)
Unit 38 - Rockbridge Fork: Wolfe County, Kentucky



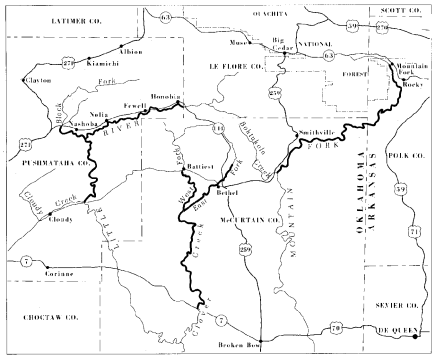
LEOPARD DARTER (*Percina pantherina*)

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).

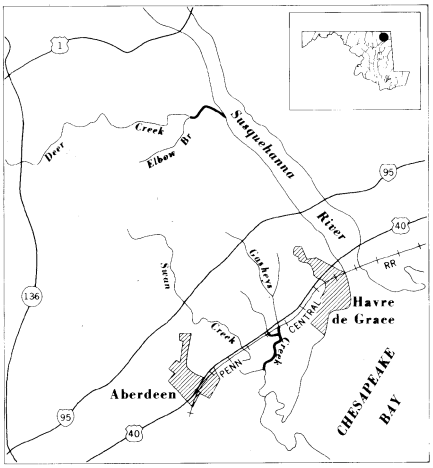
NOTE: The map provided is for informational purposes only. Map follows:



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: The map provided is for informational purposes only. Map follows:

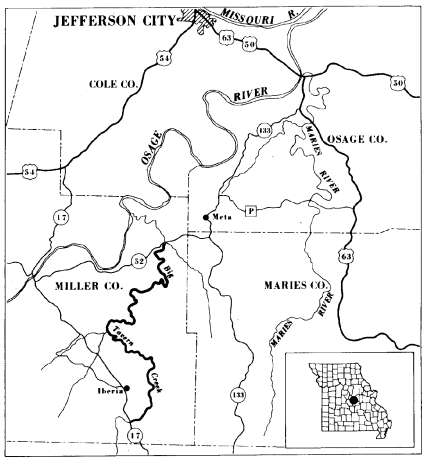


Constituent elements of this habitat are considered to be quality and permanence of streamflow in shallow areas of the streams (riffles), and presence of unsilted rocky crevices for shelter and production of aquatic insects and snails for food.

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.

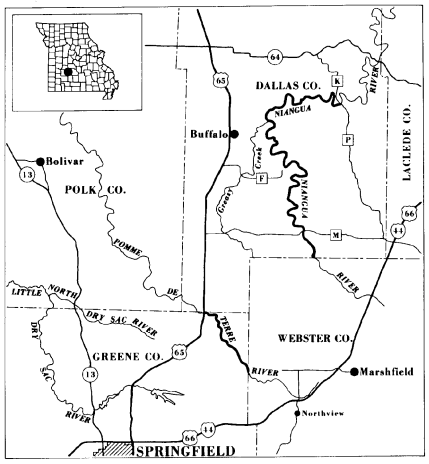
NOTE: The map provided is for informational purposes only. Map follows:



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.

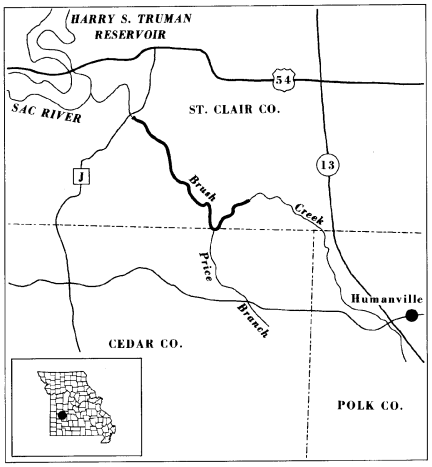
Missouri. Pomme de Terre River, Greene County. Pomme de Terre River and 50 feet on each side of the river from Highway 65 upstream to the Webster County line.

NOTE: The map provided is for informational purposes only. Map follows:



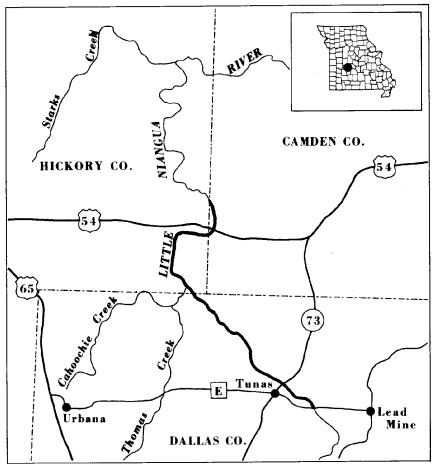
Missouri. Brush Creek, Cedar, and St. Clair Counties. Brush Creek and 50 feet on each side of the creek from 1000 feet upstream of county road J to the boundary of Sections 34 and 35, Township 36 N, Range 25 W.

NOTE: The map provided is for informational purposes only. 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: The map provided is for informational purposes only. 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.

RUSH DARTER (*Etheostoma phytophilum*)

(1) The critical habitat units are depicted for Jefferson, Winston, and Etowah Counties in Alabama, on the maps below.

(2) Within these areas, the primary constituent elements of the physical and biological features essential to the conservation of the rush darter consist of five components:

(i) Springs and spring-fed reaches of geomorphically stable, relatively low-gradient, headwater streams with appropriate habitat (bottom substrates) to maintain essential riffles, runs, and pools; emergent vegetation in shallow water and on the margins of small streams and spring runs; cool, clean, flowing water; and connectivity between spawning, foraging, and resting sites to promote gene flow throughout the species' range.

(ii) Stable bottom substrates consisting of a combination of sand with silt, muck, gravel, or bedrock and adequate emergent vegetation in shallow water on the margins of small permanent and ephemeral streams and spring runs.

(iii) Instream flow with moderate velocity and a continuous daily discharge that allows for a longitudinal connectivity regime inclusive of both surface runoff and groundwater sources (springs and seepages) and exclusive of flushing flows caused by stormwater runoff.

(iv) Water quality with temperature not exceeding 26.7 °C (80 °F), dissolved oxygen 6.0 milligrams or greater per liter (mg/L), turbidity of an average monthly reading of 10 Nephelometric Turbidity Units (NTU; units used to measure sediment discharge) and 15 mg/L total suspended solids (TSS; measured as mg/L of sediment in water) or less; and a specific conductance (ability of water to conduct an electric current, based on dissolved solids in the water) of no greater than 225 micro Siemens per centimeter at 26.7 °C (80 °F).

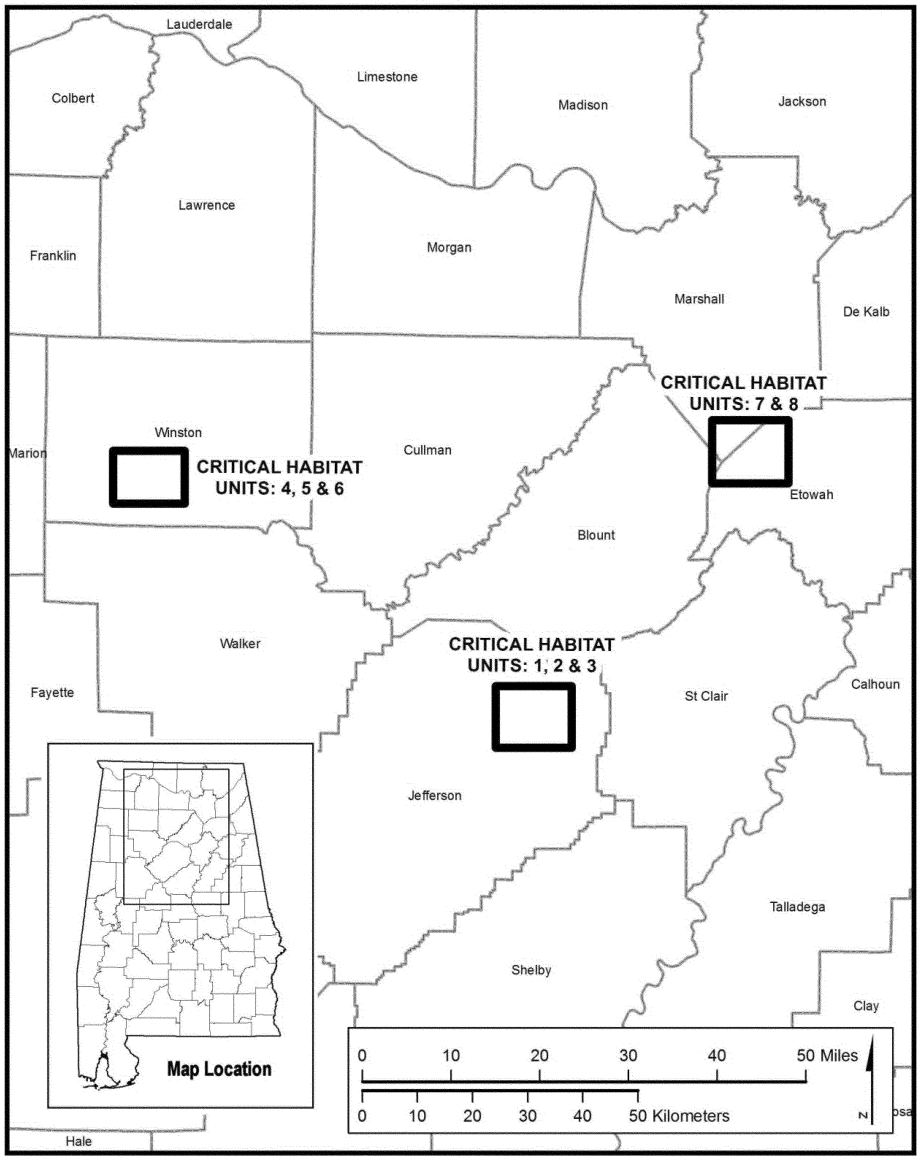
(v) Prey base of aquatic macroinvertebrates, including midge larvae, mayfly nymphs, blackfly larvae, beetles, and microcrustaceans.

(3) Critical habitat does not include manmade 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 November 15, 2012.

(4) *Critical habitat map units.* Data layers defining map units were created on a base of USGS digital ortho-photo quarter-quadrangles, and critical habitat units were then mapped using Universal Transverse Mercator (UTM) Zone 16N, NAD1983, coordinates. Upstream and downstream limits were then identified by longitude and latitude using decimal degrees and projected in WGS 1984. The maps in this entry, as modified by any accompanying regulatory text, establish the boundaries of the critical habitat designation. The coordinates or plot points or both on which each map is based are available to the public at the field office Internet site (*http://www.fws.gov/cookeville*), *http://www.regulations.gov* at Docket No. FWS–R4–ES–2011–0074, and at the Service's Tennessee Fish and Wildlife Office. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2.

(5) Index map follows:

Overview of Critical Habitat Locations for the Rush Darter in Alabama



(6) Units 1, 2, and 3: Beaver Creek, Unnamed Tributary to Beaver Creek and Highway 79 Spring Site, and Tapawingo or Penny Spring and Spring Run, Jefferson County, Alabama.

(i) Unit 1 includes 1.0 river kilometers (rkm) (0.6 river miles (rmi)) of Beaver Creek from the confluence with an unnamed tributary to Beaver Creek, downstream to the confluence with Turkey Creek.

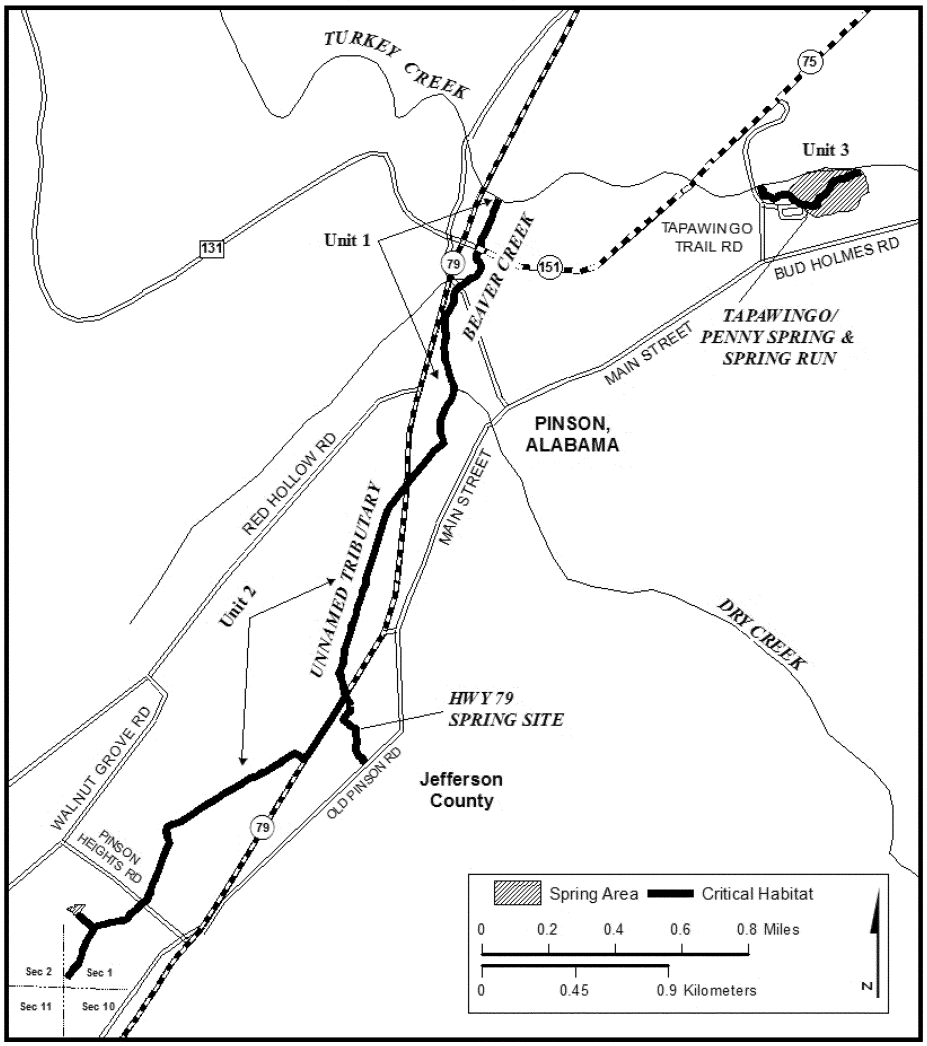
(ii) Unit 2 includes 4.4 rkm (2.7 rmi) of an unnamed tributary of Beaver Creek and two spring runs. The site begins at the section 1 and 2 (T16S, R2W) line, as taken from the

U.S. Geological Survey 7.5 topographical map (Pinson quadrangle), downstream to its confluence with Dry Creek, and includes a spring run beginning at the springhead just northwest of Old Pinson Road and intersecting with an unnamed tributary to Beaver Creek on the west side of Highway 79, and a spring associated wetland (0.13 ha, 0.33 ac) within the headwaters, south of Pinson Heights Road, flowing 0.9 km (0.05 mi) from the northwest (33.668173, −86.708577) and adjoining to the Unnamed Tributary (33.667344, −86.707429).

(iii) Unit 3 includes 0.6 rkm (0.4 rmi) of spring run, historically called Tapawingo Plunge, along with 6.7 ha (16.5 ac) of flooded spring basin making up Penny Springs, located south of Turkey Creek, north of Bud Holmes Road, east of Tapawingo Trail Road. The east boundary is at latitude 33° 41′ 56.50″ N and longitude 86° 39′ 55.01″ W: 1.0 km (0.6 mi) west of section line 28 and 29 (T15S, R1W) (U.S. Geological Survey 7.5 topographical map (Pinson quadrangle)).

(iv) Map of Units 1, 2, and 3 of critical habitat for the rush darter follows:

Map of Units 1 (Beaver Creek), 2 (unnamed tributary to Beaver Creek and Hwy 79 Spring Site) and 3 (Tapawingo or Penny Spring and Spring Run) of critical Habitat for the rush darter



(7) Units 4, 5, and 6: Wildcat Branch, Mill Creek, and Doe Branch, Winston County, Alabama.

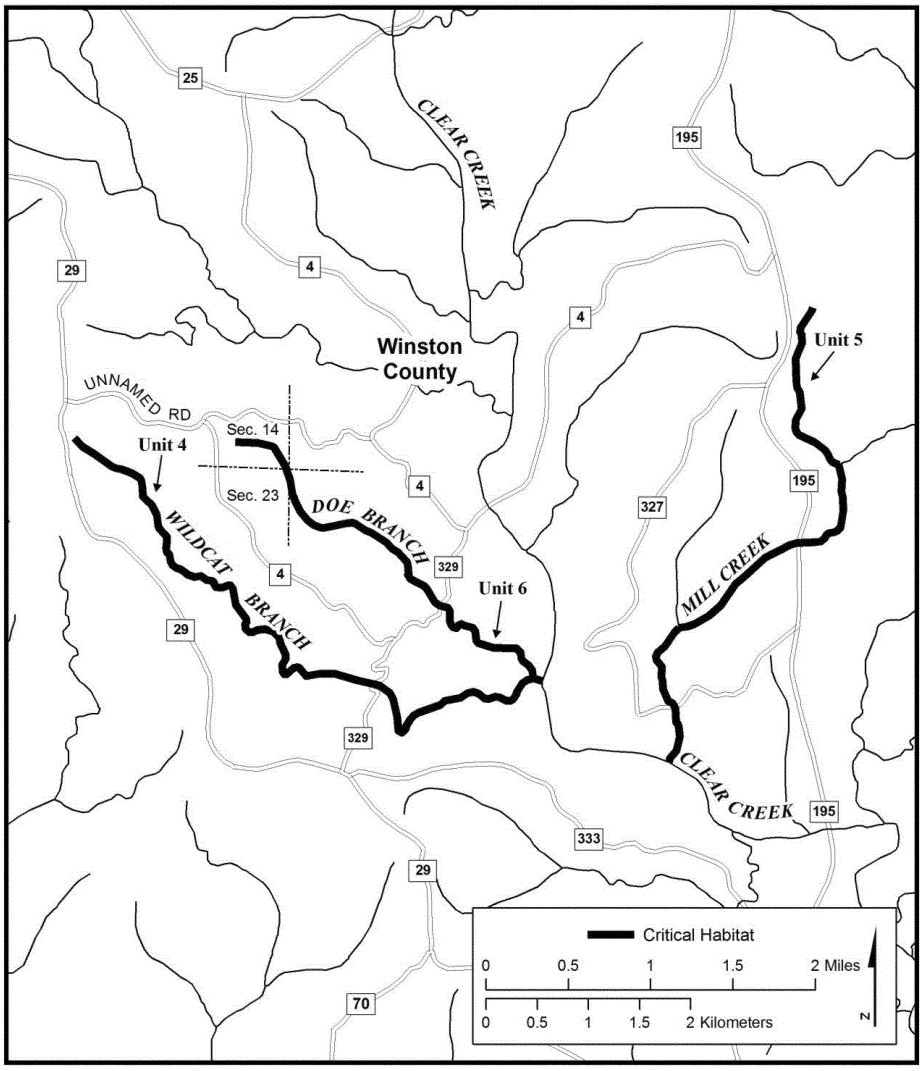
(i) Unit 4 includes 6.6 rkm (4.1 rmi) of Wildcat Branch from the streams headwaters just east of Winston County Road 29 to the confluence with Clear Creek.

(ii) Unit 5 includes 5.9 rkm (3.7 rmi) of Mill Creek from the streams headwaters just east of Winston County Road 195 to the confluence with Clear Creek.

(iii) Unit 6 includes 4.3 rkm (2.7 rmi) of Doe Branch from the streams headwaters north and west of section line 23 and 14 (R9W, T11S; Popular Springs Quadrangle) to the confluence with Wildcat Branch.

(iv) Map of Units 4, 5, and 6 of critical habitat for the rush darter follows:

Map of Units 4 (Wildcat Branch), 5 (Mill Creek) and 6 (Doe Branch) of critical habitat for the rush darter

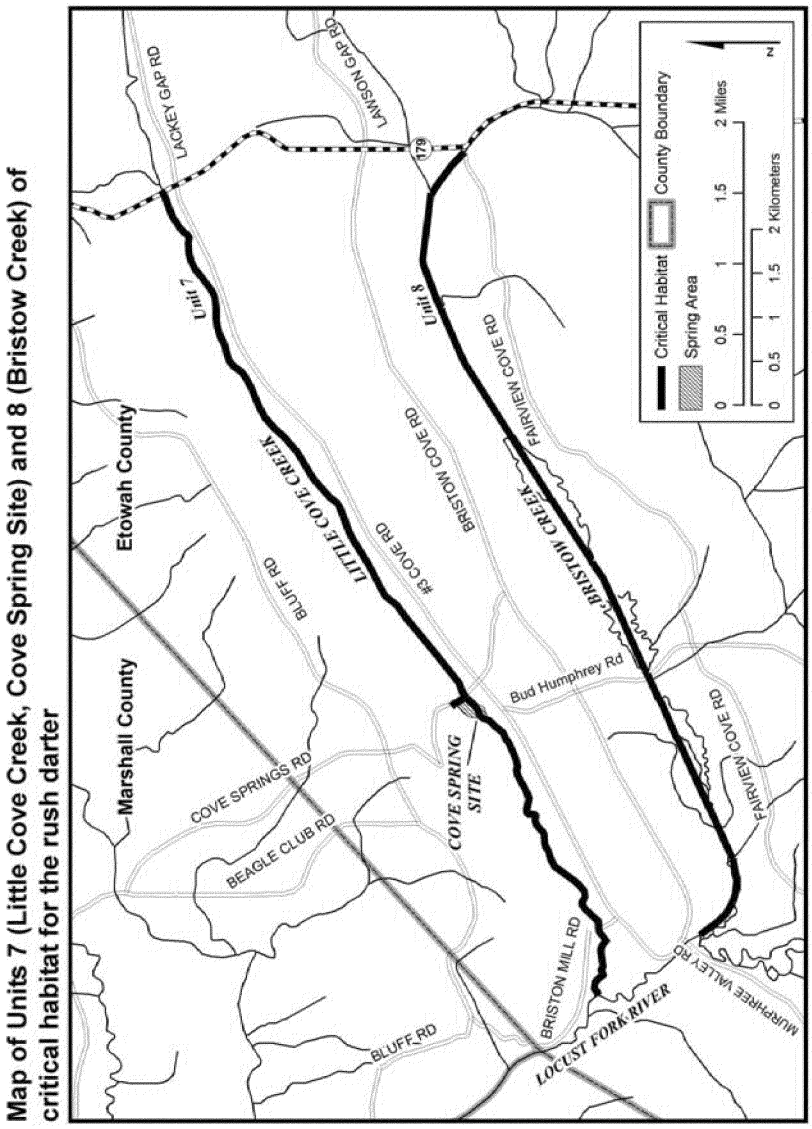


(8) Units 7 and 8: Little Cove Creek, Cove Spring and Spring Run; and Bristow Creek, Etowah County, Alabama.

(i) Unit 7 includes 11.2 rkm (6.1 rmi) of Little Cove Creek and the Cove Spring run system along with 5.1 ha (12.7 ac) of the spring run floodplain. Specifically, the Little Cove Creek section (11.0 rkm (6.0 rmi)) is from the intersection of Etowah County Road 179 near the creek headwaters, downstream to its confluence with the Locust Fork River. The Cove Spring and spring run section includes 0.2 rkm (0.1 rmi) of the spring run from the springhead at the West Etowah Water and Fire Authority pumping station on Cove Spring Road to the confluence with Little Cove Creek and includes 5.1 ha (12.7 acres) of the spring run floodplain due south of the pumping facility.

(ii) Unit 8 includes 10.2 rkm (6.3 rmi) of Bristow Creek beginning from the bridge at Fairview Cove Road, downstream to the confluence with the Locust Fork River.

(iii) Map of Units 7 and 8 of critical habitat for the rush darter follows:



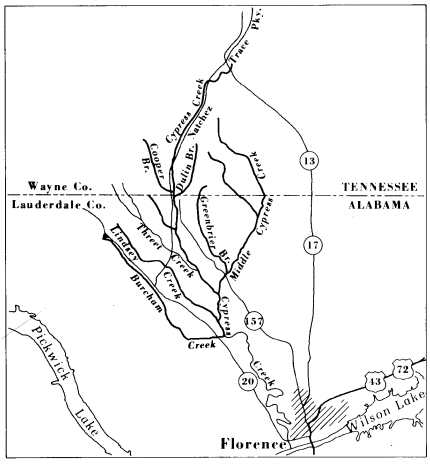
SLACKWATER DARTER (*Etheostoma boschungi*)

Alabama. Lauderdale County. All permanent and intermittent streams with flowing water from December to June tributary to Cypress Creek and its tributaries upstream

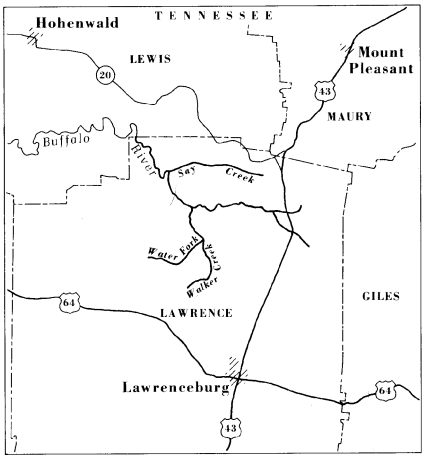
from the junction of Burcham Creek, including Burcham Creek, excluding Threet Creek and its tributaries.

Tennessee. Wayne County. All permanent and intermittent streams with flowing water from December to June tributary to Cypress and Middle Cypress Creek drainage.

NOTE: The maps provided are for informational purposes only. Map follows:



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



VERMILION DARTER (*Etheostoma chermocki*)

(1) Critical habitat units are depicted for Jefferson County, Alabama, on the map below.

(2) Within these areas, the primary constituent elements of the physical and biological features essential to the conservation of the vermilion darter consist of four components:

(i) Geomorphically stable stream bottoms and banks (stable horizontal dimension and vertical profile) in order to maintain bottom features (riffles, runs, and pools) and transition zones between bottom features, to promote connectivity between spawning, foraging, and resting sites, and to maintain gene flow throughout the species range.

(ii) Instream flow regime with an average daily discharge over 50 cubic feet per second, inclusive of both surface runoff and groundwater sources (springs and seepages) and exclusive of flushing flows.

(iii) Water quality with temperature not exceeding 26.7 °C (80 °F), dissolved oxygen 6.0 milligrams or greater per liter, turbidity of an average monthly reading of 10 NTU and 15mg/l TSS (Nephelometric Turbidity Units; units used to measure sediment discharge; Total Suspended Solids measured as mg/l of sediment in water) or less; and a specific conductance (ability of water to conduct an electric current, based on dissolved solids in the water) of no greater than 225 micro Siemens per centimeter at 26.7 °C (80 °F).

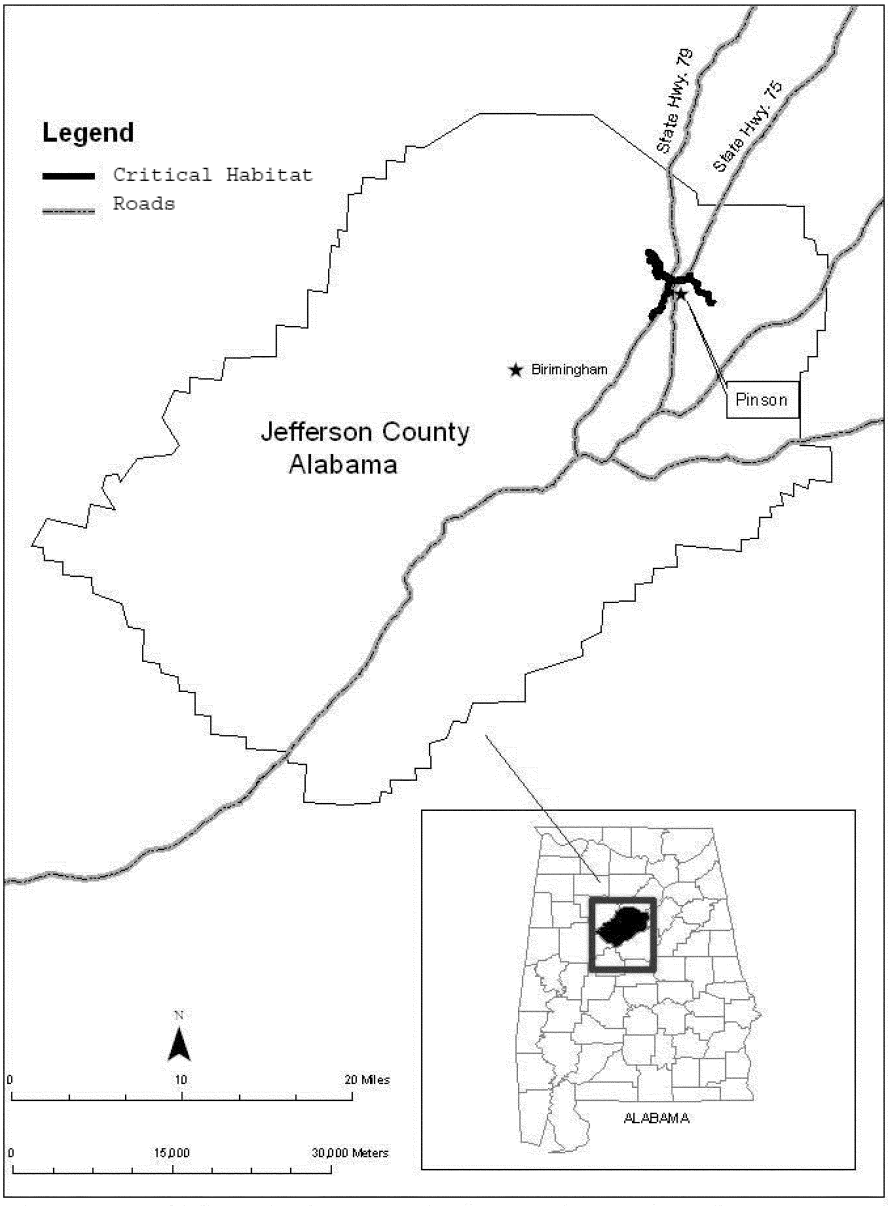
(iv) Stable bottom substrates consisting of fine gravel with coarse gravel or cobble, or bedrock with sand and gravel, with low amounts of fine sand and sediments within the interstitial spaces of the substrates along with adequate aquatic vegetation.

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

(4) Critical habitat unit map. The map was developed from USGS 7.5′ quadrangles. Critical habitat unit upstream and downstream limits were then identified by longitude and latitude using decimal degrees.

(5) *Note:* Index map of critical habitat units for the vermilion darter follows:

Index Map - Vermilion Darter



(6) Unit 1: Turkey Creek, Jefferson County, Alabama.

(i) Unit 1 includes the channel in Turkey Creek from Shadow Lake Dam (086°38′22.50″ W long., 033°40′44.78″ N lat.) downstream to the Section 13/14 (T15S, R2W) line (086°42′31.81″ W long., 033°43′23.61″ N lat.).

(ii) Map of Unit 1 is provided at paragraph (10)(ii) of this entry.

(7) Unit 2: Dry Branch, Jefferson County, Alabama.

(i) Unit 2 includes the channel in Dry Branch from the bridge at Glenbrook Road (086°41′6.05″ W long., 033°41′10.65″ N lat) downstream to the confluence with Beaver Creek (86°41′17.39″ W long., 033°41′26.94″ N lat.).

(ii) Map of Unit 2 is provided at paragraph (10)(ii) of this entry.

(8) Unit 3: Beaver Creek, Jefferson County, Alabama.

(i) Unit 3 includes the channel of Beaver Creek from the confluence with the unnamed tributary to Beaver Creek and Dry Branch (086°41′17.54″ W long., 033°41′26.94″ N lat.) downstream to its confluence with Turkey Creek (086°41′9.16″ W long., 033°41′55.86 N lat.).

(ii) Map of Unit 3 is provided at paragraph (10)(ii) of this entry.

(9) Unit 4: Dry Creek, Jefferson County, Alabama.

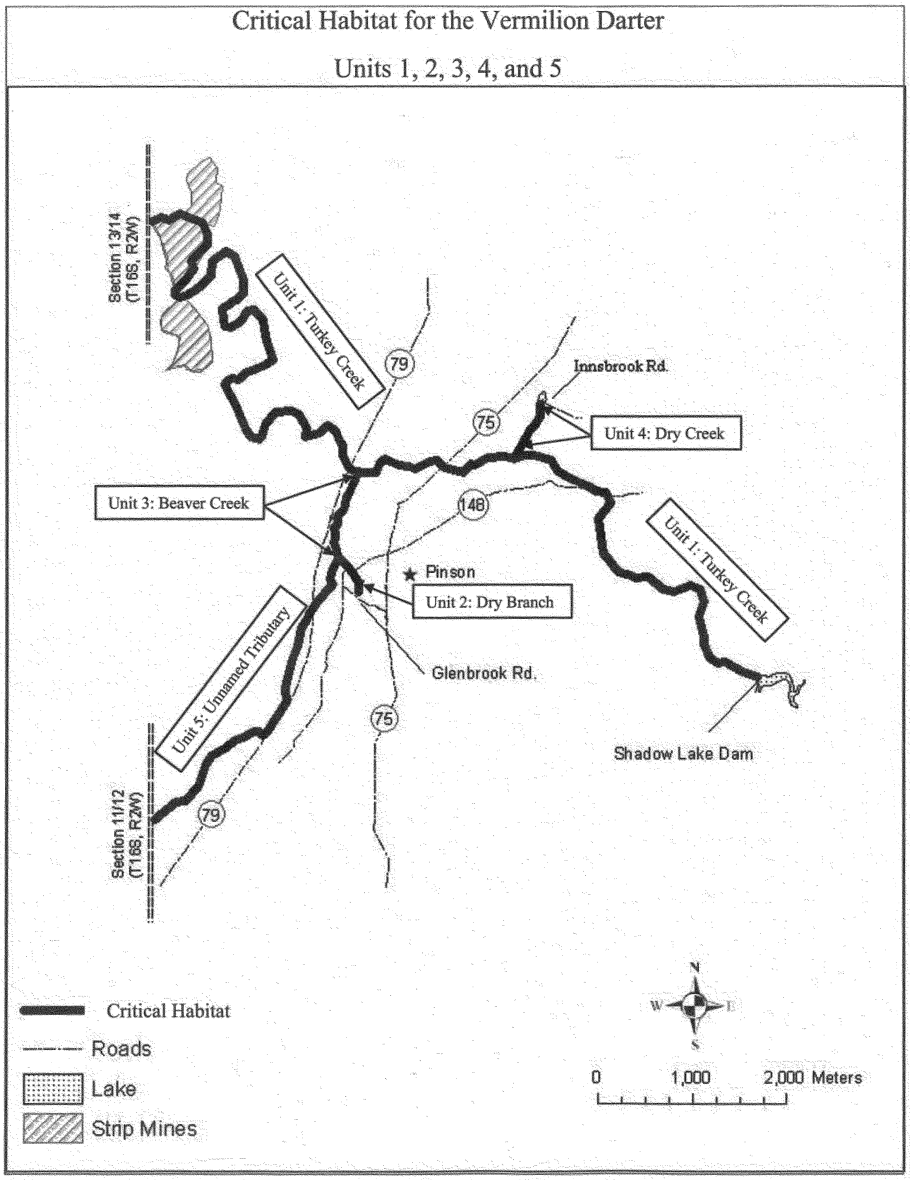
(i) Unit 4 includes the channel of Dry Creek, from Innsbrook Road (086°39′53.78″ W long., 033°42′19.11″ N lat) downstream to the confluence with Turkey Creek (086°40′3.72″ W long., 033°42′1.39″ N lat).

(ii) Map of Unit 4 is provided at paragraph (10)(ii) of this entry.

(10) Unit 5: Unnamed Tributary to Beaver Creek, Jefferson County, Alabama.

(i) Unit 5 includes the channel of the Unnamed Tributary from its confluence with Beaver Creek (086°41′17.54″ W long., 033°41′26.94″ N lat.), upstream to the 1/2(T16S, R2W) section line (086°42′31.70″ W long., 033°39′54.15″ N lat.)

(ii) Map of Units 1, 2, 3, 4, and 5 (Map 2) follows:



YELLOWCHEEK DARTER (*Etheostoma moorei*)

(1) Critical habitat units are depicted for Cleburne, Searcy, Stone, and Van Buren Counties, Arkansas, on the maps below.

(2) Within these areas, the primary constituent elements of the physical and biological features essential to the conservation of the yellowcheek darter consist of five components:

(i) Geomorphically stable, second- to fifth-order streams with riffle habitats, and connectivity between spawning, foraging, and resting sites to promote gene flow within the species' range where possible.

(ii) Stable bottom composed of relatively silt-free, moderate to strong velocity riffles with gravel, cobble, and boulder substrates.

(iii) An instream flow regime (magnitude, frequency, duration, and seasonality of discharge over time) sufficient to provide permanent surface flows, as measured during years with average rainfall, and to maintain benthic habitats utilized by the species.

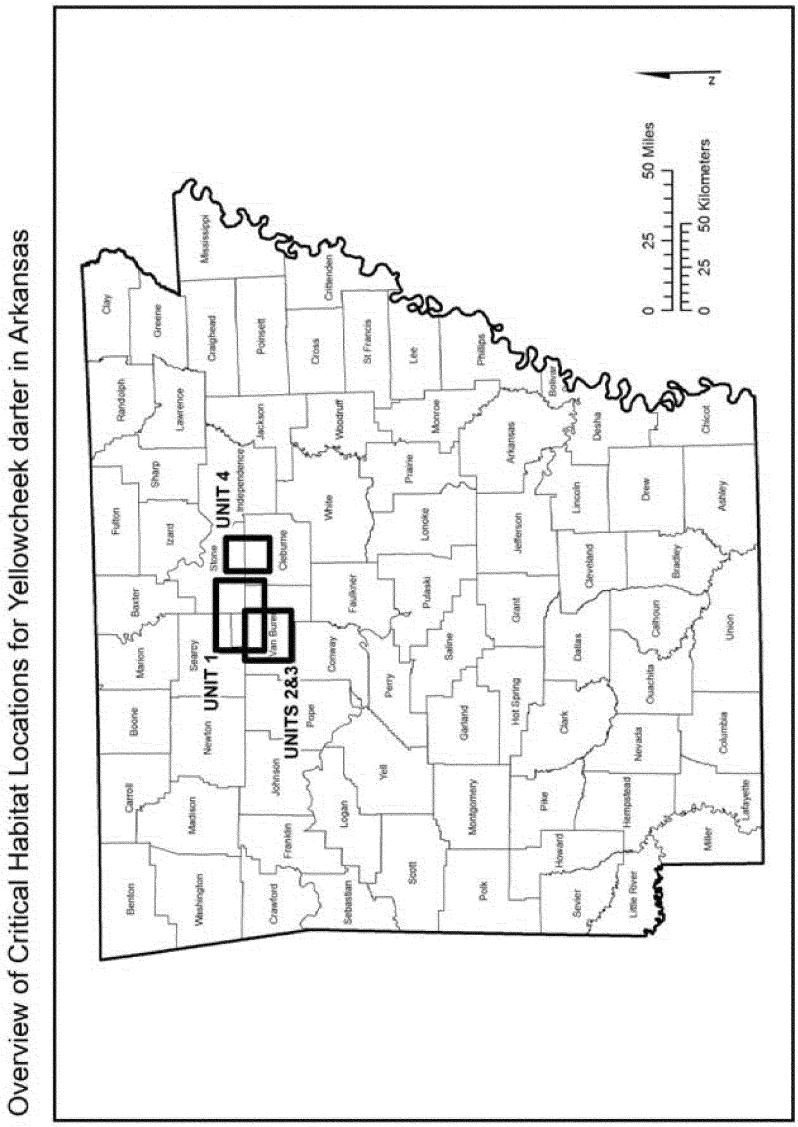
(iv) Adequate water quality characterized by moderate stream temperatures, acceptable dissolved oxygen concentrations, moderate pH, and low levels of pollutants. Adequate water quality is defined for the purpose of this rule as the quality necessary for normal behavior, growth, and viability of all life stages of the yellowcheek darter.

(v) Prey base of aquatic macroinvertebrates, including blackfly larvae, stonefly larvae, mayfly nymphs, and caddisfly larvae.

(3) Critical habitat does not include manmade 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 November 15, 2012.

(4) *Critical habitat unit maps.* Data layers defining map units were created on a base of USGS digital ortho-photo quarter-quadrangles, and critical habitat units were then mapped using Universal Transverse Mercator (UTM) Zone 15N, NAD1983, coordinates. Upstream and downstream limits were then identified by longitude and latitude using decimal degrees and projected in WGS 1984. The maps in this entry, as modified by any accompanying regulatory text, establish the boundaries of the critical habitat designation. The coordinates or plot points or both on which each map is based are available to the public at the field office Internet site (*http://www.fws.gov/cookeville*), *http://www.regulations.gov* at Docket No. FWS–R4–ES–2011–0074, and at the Service's Tennessee Fish and Wildlife Office. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2.

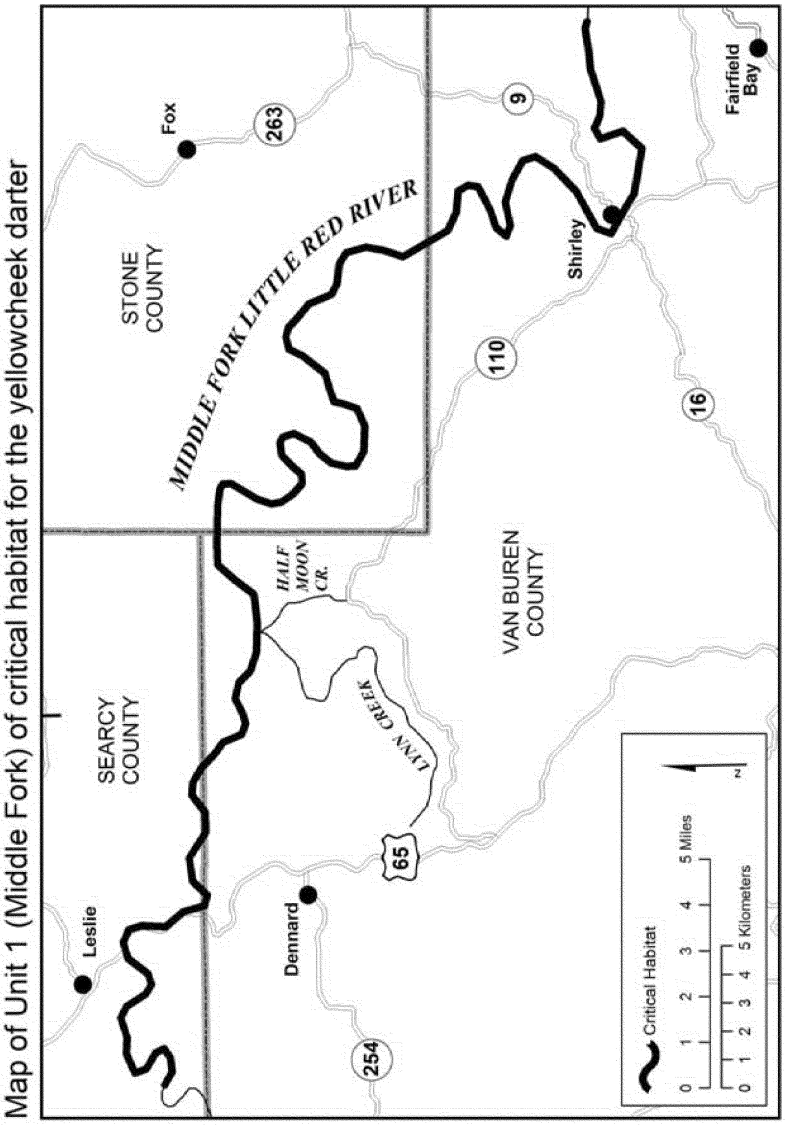
(5) Index map follows:



(6) Unit 1: Middle Fork Little Red River; Searcy, Stone and Van Buren Counties, Arkansas.

(i) Unit 1 includes 73.2 river kilometers (rkm) (45.5 river miles (rmi)) of the Middle Fork of the Little Red River from Searcy County Road 167 approximately 3.4 rkm (2.1 rmi) southwest of Leslie, Arkansas, to a point on the stream 7.7 rkm (4.8 rmi) downstream of the Arkansas Highway 9 crossing of the Middle Fork near Shirley, Arkansas.

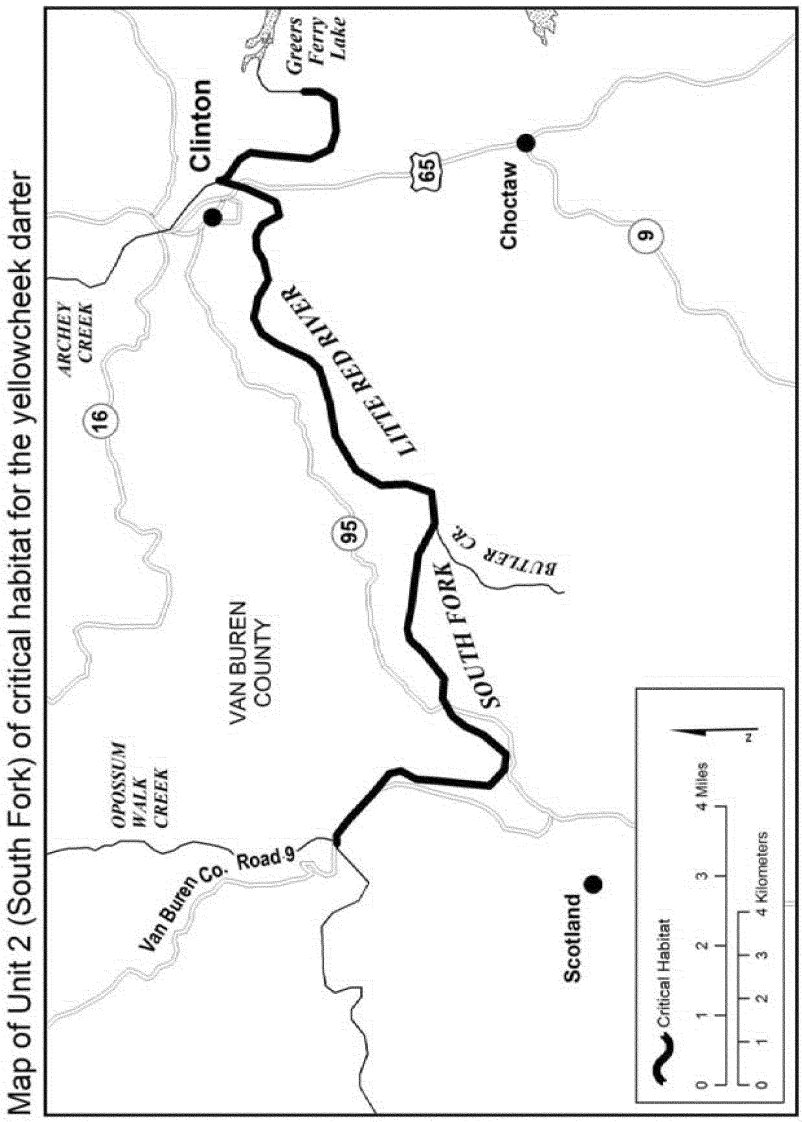
(ii) Map of Unit 1 of critical habitat for the yellowcheek darter follows:



(7) Unit 2: South Fork Little Red River; Van Buren County, Arkansas.

(i) Unit 2 includes 33.8 rkm (21.0 rmi) of the South Fork of the Little Red River from Van Buren County Road 9 three miles north of Scotland, Arkansas, to a point on the stream approximately 5.5 rkm (3.4 rmi) downstream of U.S. Highway 65 in Clinton, Arkansas, where it becomes inundated by Greers Ferry Lake.

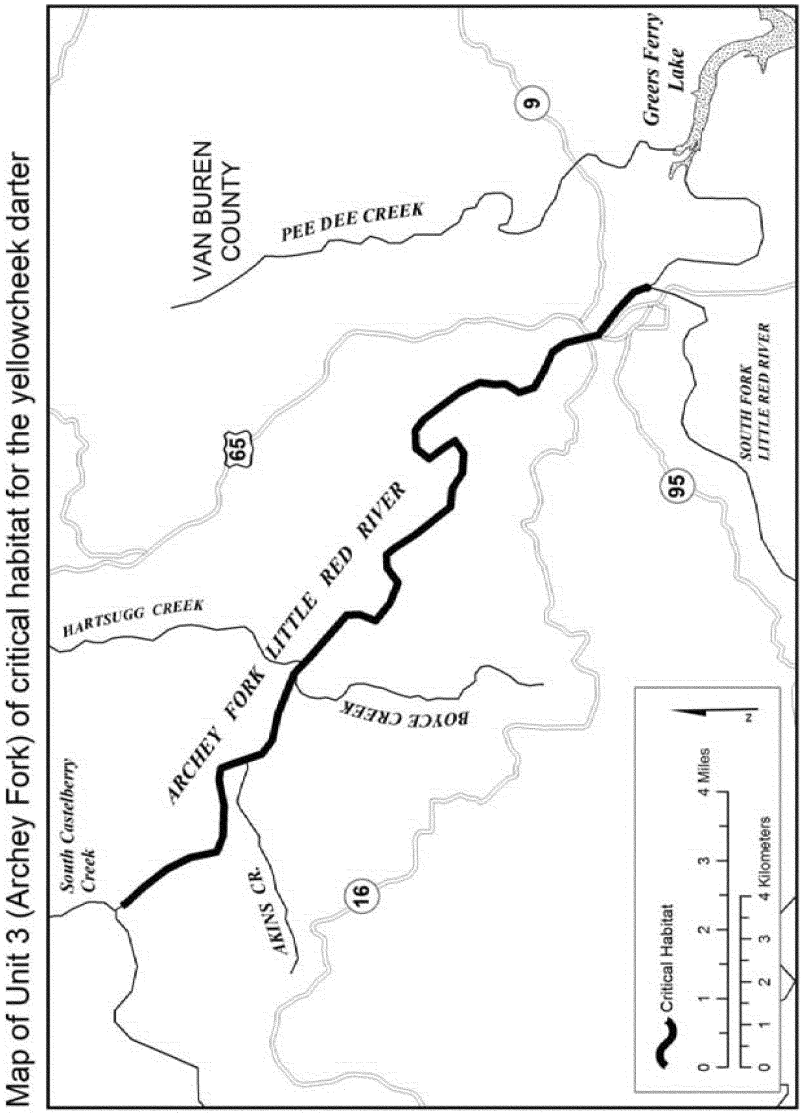
(ii) Map of Unit 2 of critical habitat for the yellowcheek darter follows:



(8) Unit 3: Archey Fork Little Red River; Van Buren County, Arkansas.

(i) Unit 3 includes 28.5 rkm (17.7 rmi) of the Archey Fork of the Little Red River from its confluence with South Castleberry Creek to its confluence with the South Fork of the Little Red River near Clinton, Arkansas.

(ii) Map of Unit 3 of critical habitat for the yellowcheek darter follows:

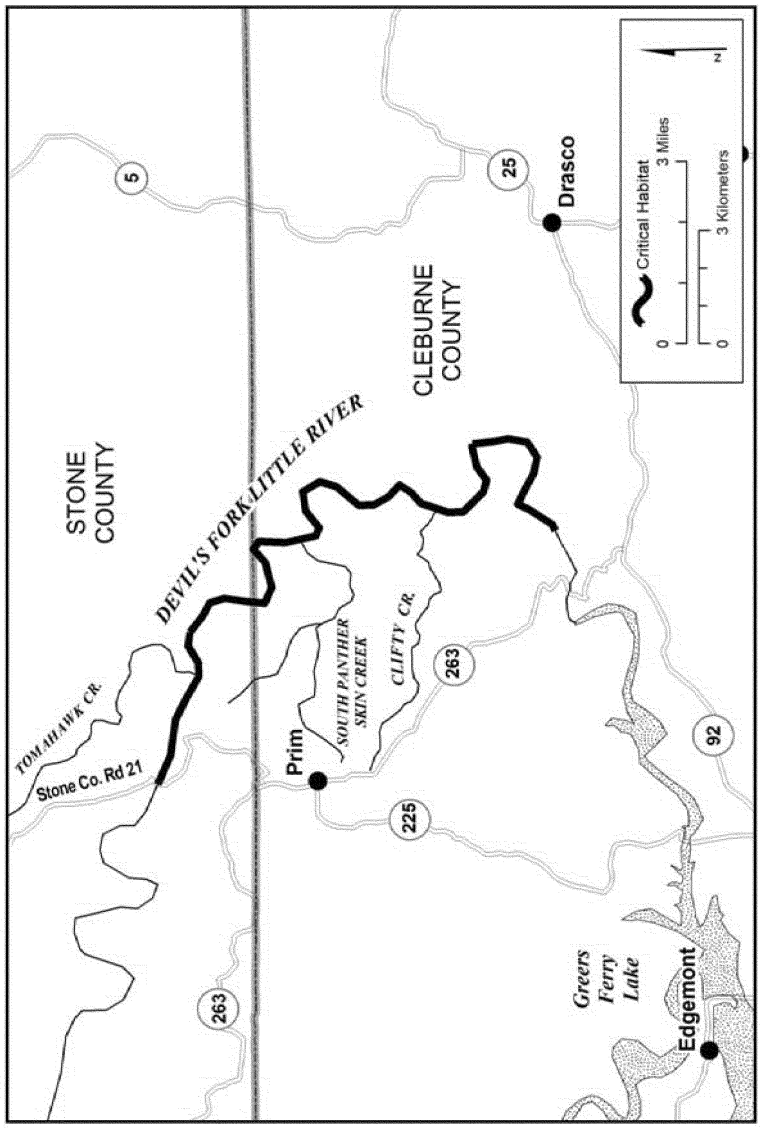


(9) Unit 4: Devil's Fork Little Red River (including Turkey Creek and Beech Fork); Cleburne and Stone Counties, Arkansas.

(i) Unit 4 includes 28.0 rkm (17.4 rmi) of stream from Stone County Road 21 approximately 3 miles north of Prim, Arkansas, to a point on the Devil's Fork approximately 5.1 km (3.2 mi) southeast of Woodrow, Arkansas, at the point of inundation by Greers Ferry Lake.

(ii) Map of Unit 4 of critical habitat for the yellowcheek darter follows:

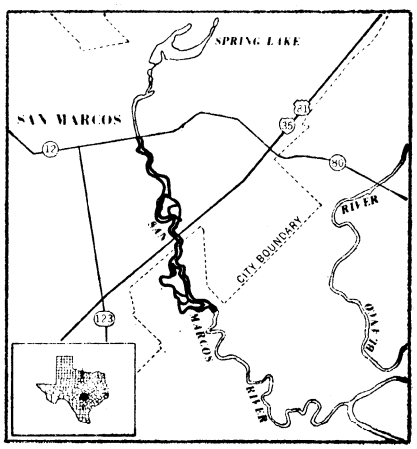
Map of Unit 4 (Devil's Fork) of critical habitat for the yellowcheek darter



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: The map provided is for informational purposes only. 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, Los Angeles, Orange, and San Diego Counties, California, on the maps below.

(2) Within these areas, the primary constituent element of the physical or biological features essential to the conservation of tidewater goby consist of persistent, shallow (in the range of approximately 0.3 to 6.6 ft (0.1 to 2 m)), still-to-slow-moving lagoons, estuaries, and coastal streams with salinity up to 12 parts per thousand (ppt), which provides adequate space for normal behavior and individual and population growth that contain:

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

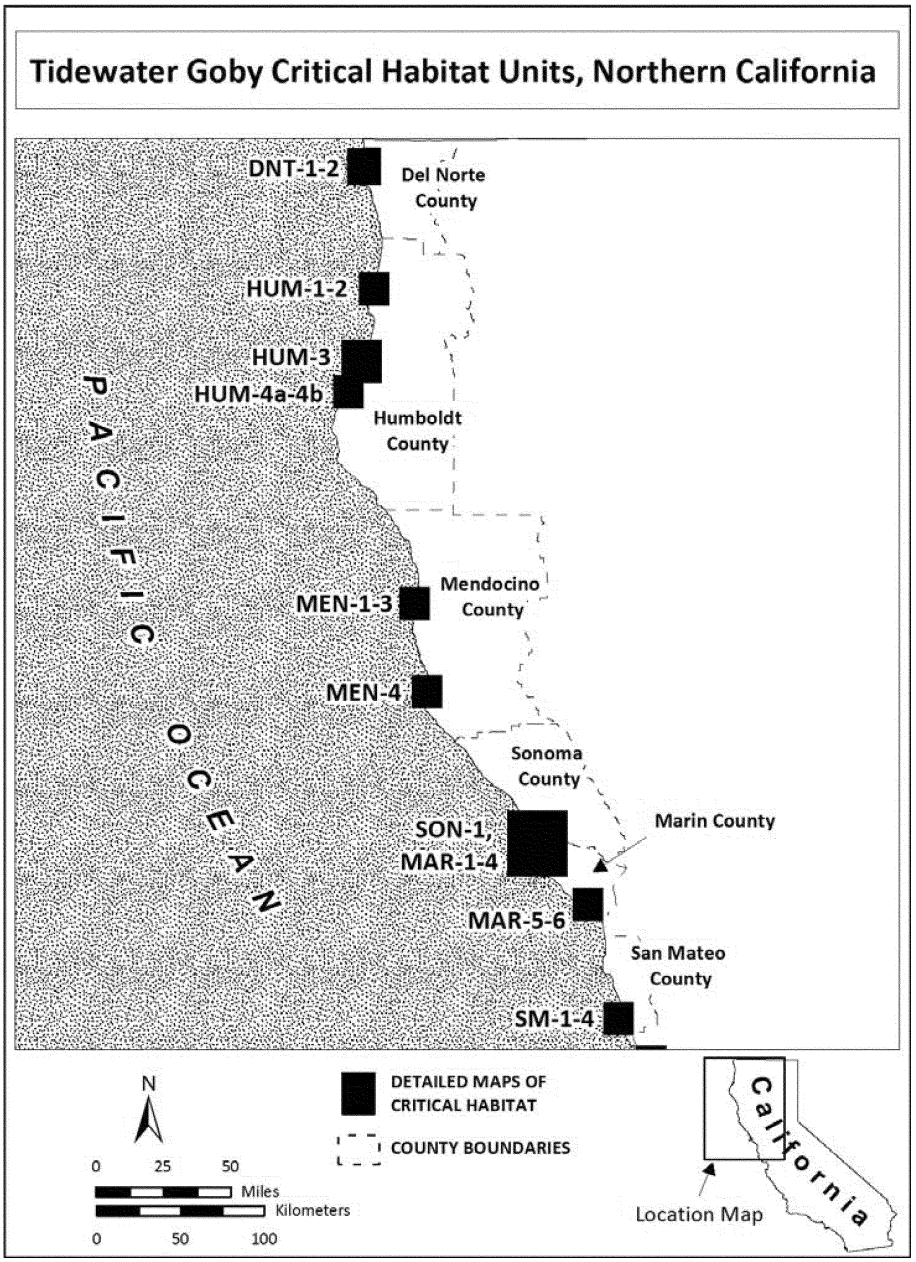
(ii) Submerged and emergent aquatic vegetation, such as *Potamogeton pectinatus*, *Ruppia maritima*, *Typha latifolia*, and *Scirpus* spp., that provides protection from predators and high flow events; or

(iii) 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.

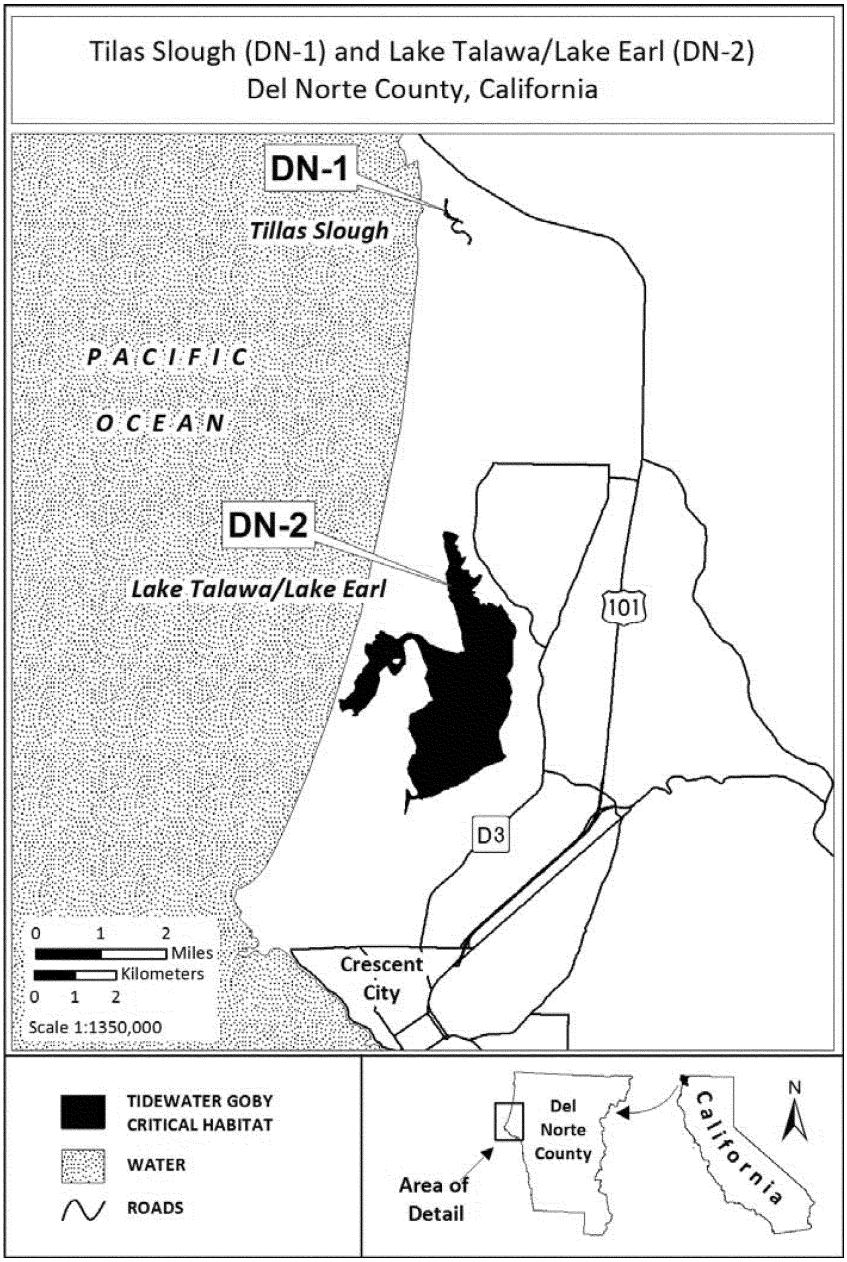
(3) Critical habitat does not include manmade structures (such as bridges, docks, aqueducts, and other paved areas) and the land on which they are located existing within the legal boundaries on March 8, 2013.

(4) *Critical habitat map units.* Data layers defining map units were created 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. Critical habitat units were mapped using Universal Transverse Mercator (UTM), zones 10 and 11. The maps in this entry, as modified by any accompanying regulatory text, establish the boundaries of the critical habitat designation. The coordinates or plot points or both on which each map is based are available to the public at the Service's internet site, *http://www.fws.gov/ventura/*, http://*www.regulations.gov* at Docket No. FWS–R8–ES–2011–0085, and at the field office responsible for this designation. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2.

(5) Index map of critical habitat units for the tidewater goby (*Eucyclogobius newberryi*) in Northern California follows:

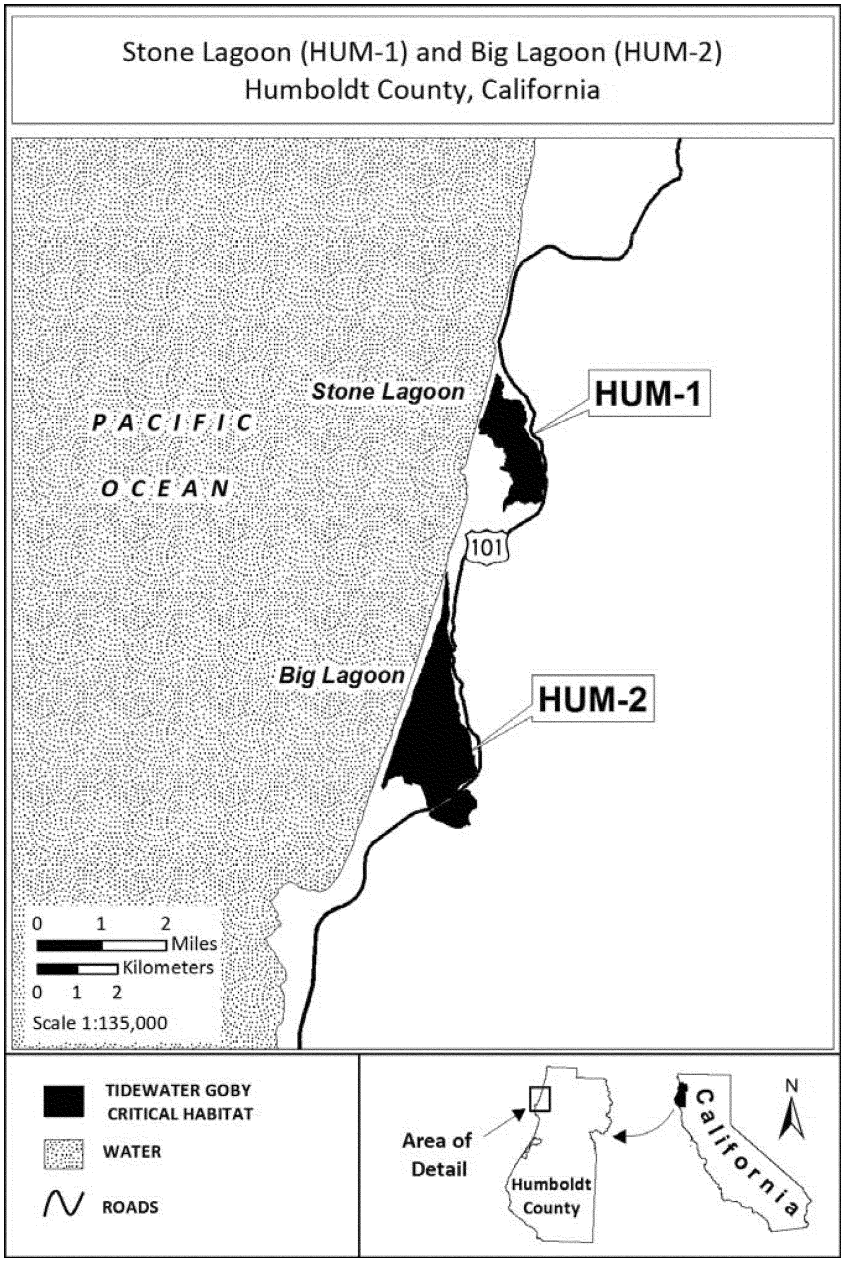


(6) Unit DN 1: Tillas Slough, Del Norte County California. Map of Units DN 1 and DN 2 follows:



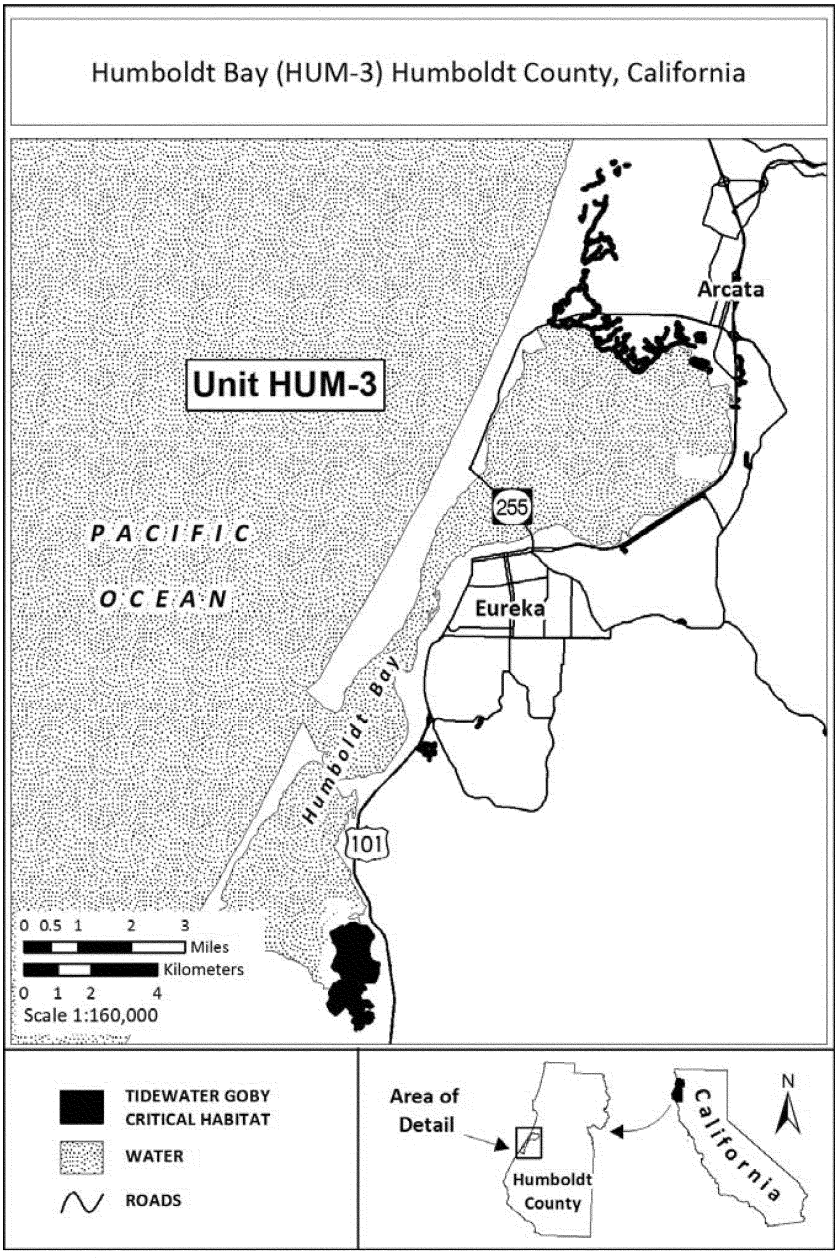
(7) Unit DN 2: Lake Talawa/Lake Earl, Del Norte County, California. Map of Unit DN 1 and DN 2 is provided at paragraph (6) of this entry.

(8) Unit HUM 1: Stone Lagoon, Humboldt County California. Map of Units HUM 1 and HUM 2 follows:

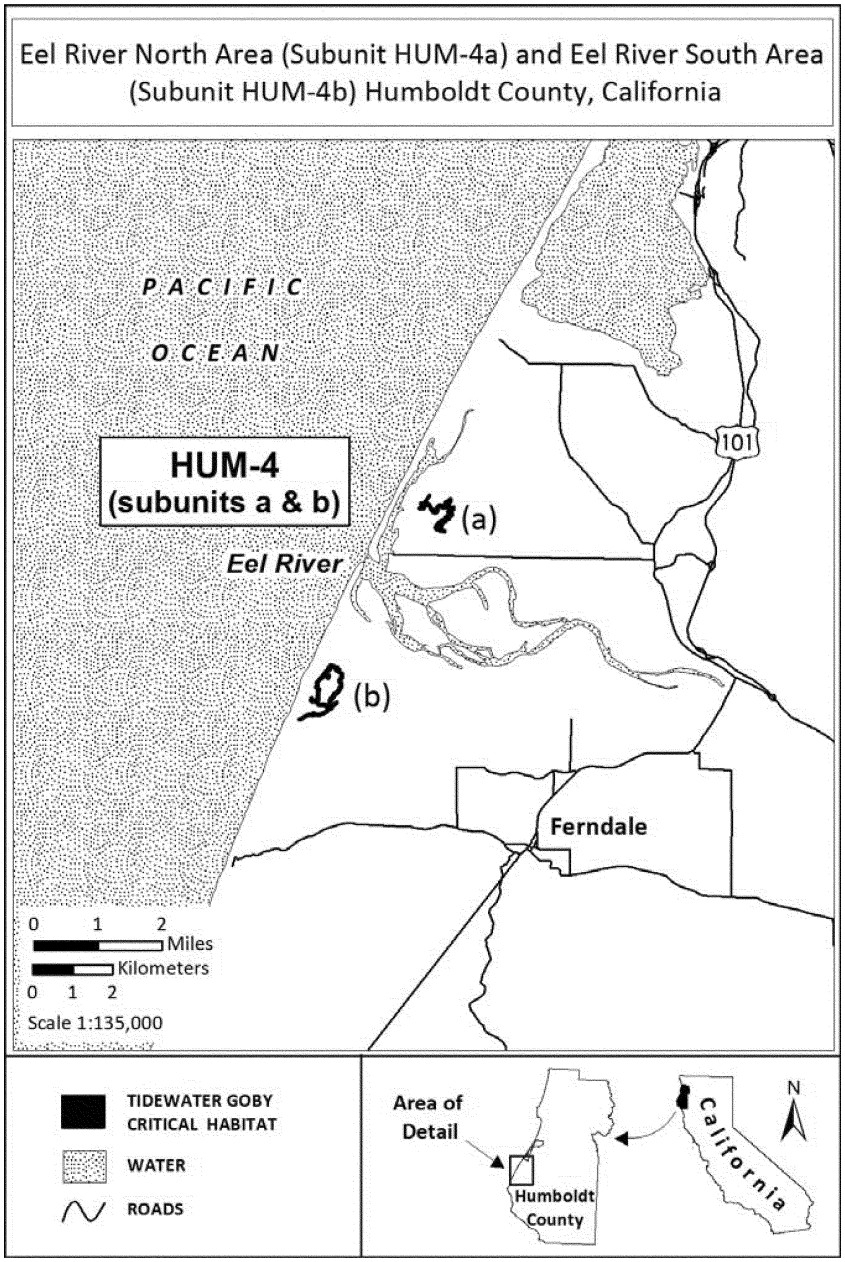


(9) Unit HUM 2: Big Lagoon, Humboldt County, California. Map of Units HUM 1 and HUM 2 is provided at paragraph (8) of this entry.

(10) Unit HUM 3: Humboldt Bay, Humboldt County, California. Map follows:

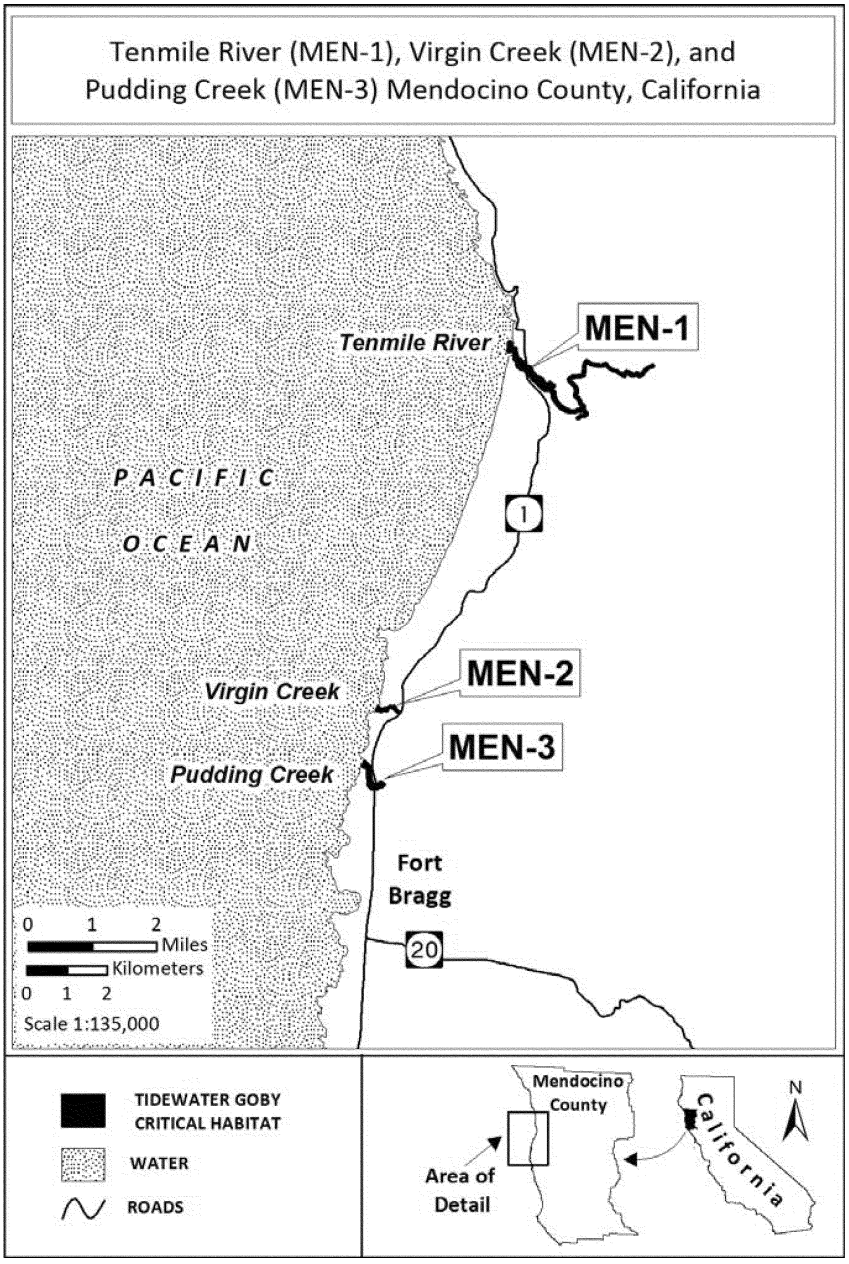


(11) Subunit HUM 4a: Eel River North Area. Map of Subunits HUM 4a and HUM 4b follows:



(12) Subunit HUM 4b: Eel River South Area. Map of Subunits HUM 4a and HUM 4b is provided at paragraph (11) of this entry.

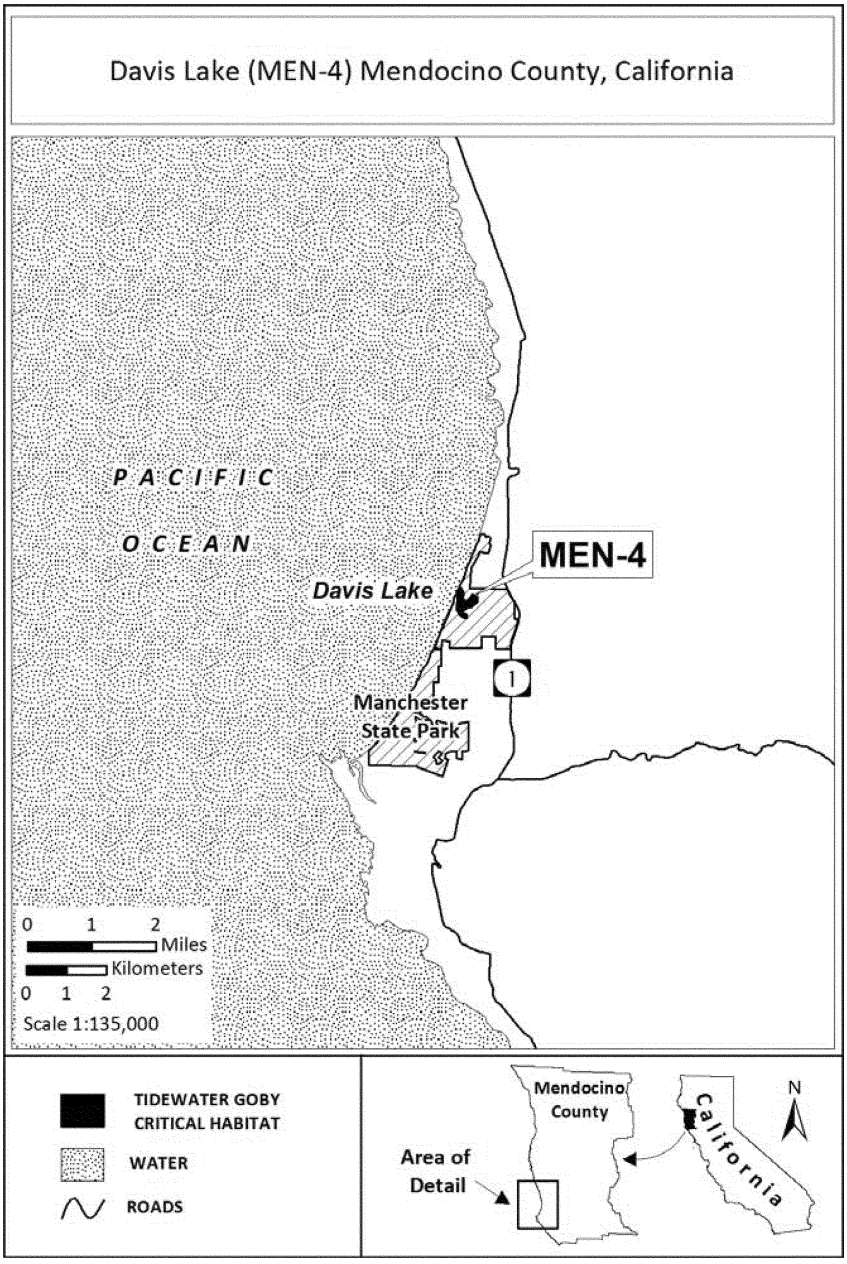
(13) Unit MEN 1: Tenmile River, Mendocino County, California. Map of Units MEN 1, MEN 2, and MEN 3 follows:



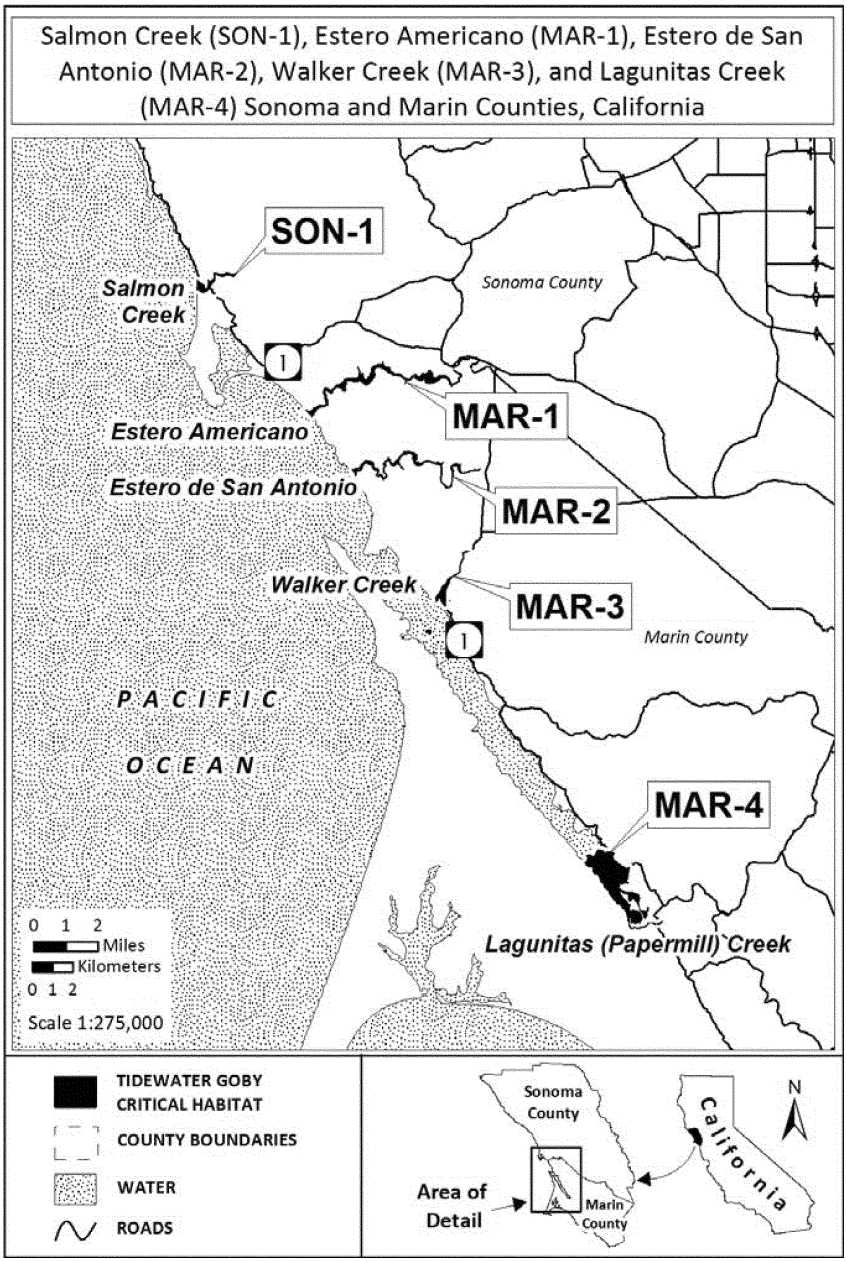
(14) Unit MEN 2: Virgin Creek, Mendocino County, California. Map of Units MEN 1, MEN 2, and MEN 3 is provided at paragraph (13) of this entry.

(15) Unit MEN 3: Pudding Creek, Mendocino County, California. Map of Units MEN 1, MEN 2, and MEN 3 is provided at paragraph (13) of this entry.

(16) Unit MEN 4: Davis Lake and Manchester Sate Park Ponds, Mendocino County, California. Map follows:



(17) Unit SON 1: Salmon Creek, Sonoma County California. Map of Units SON 1, MAR 1, MAR 2, MAR 3, and MAR 4 follows:



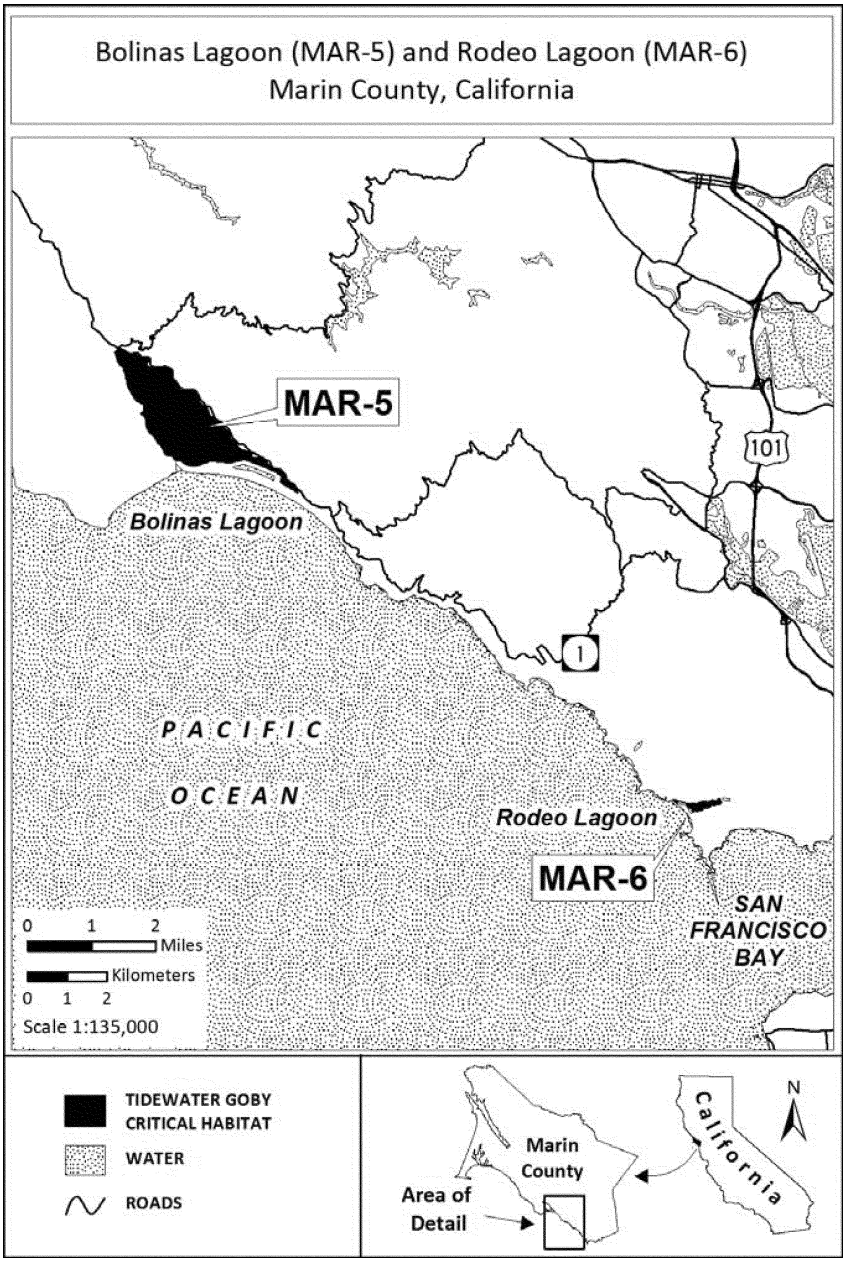
(18) Unit MAR 1: Estero Anericano, Marin County, California. Map of Units SON 1, MAR 1, MAR 2,MAR 3 and MAR 4 is provided at paragraph (17) of this entry.

(19) Unit MAR 2: Estero de San Antonio, Marin County, California. Map of Units SON 1, MAR 1, MAR 2, MAR 3, and MAR 4 is provided at paragraph (17) of this entry.

(20) Unit MAR 3: Walker Creek, Marin County, California. Map of Units SON 1, MAR 1, MAR 2, MAR 3, and MAR 4 is provided at paragraph (17) of this entry.

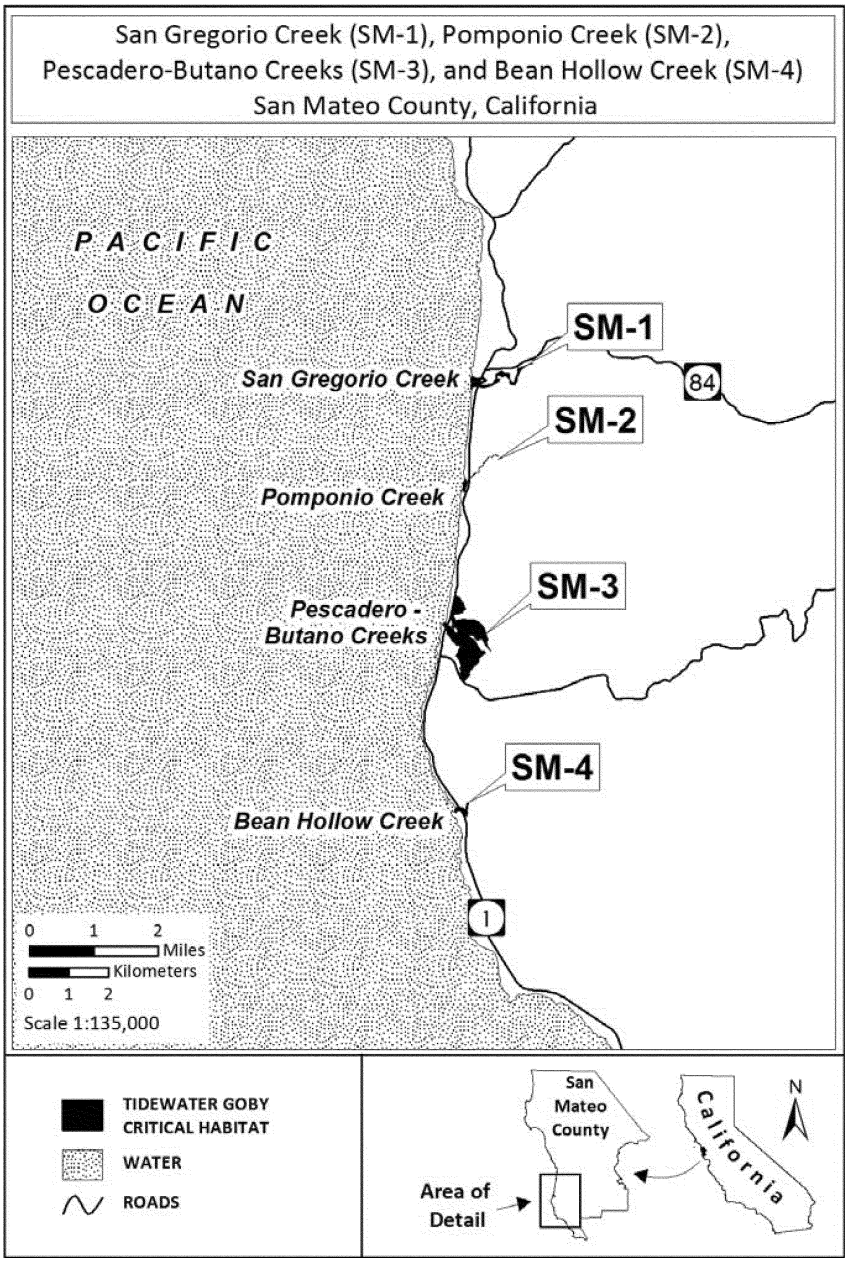
(21) Unit MAR 4: Lagunitas (Pepermill) Creek, Marin County, California. Map of Units SON 1, MAR 1, MAR 2, MAR 3, and MAR 4 is provided at paragraph (17) of this entry.

(22) Unit MAR 5: Bolinas Lagoon, Marin County, California. Map of Units MAR 5 and MAR 6 follows:



(23) Unit MAR 6: Rodeo Lagoon, Marin County, California. Map of Units MAR 5 and MAR 6 is provided at paragraph (21) of this entry.

(24) Unit SM 1: San Gregorio Creek, San Mateo County, California. Map of Units SM 1, SM 2, SM 3, and SM 4 follows:

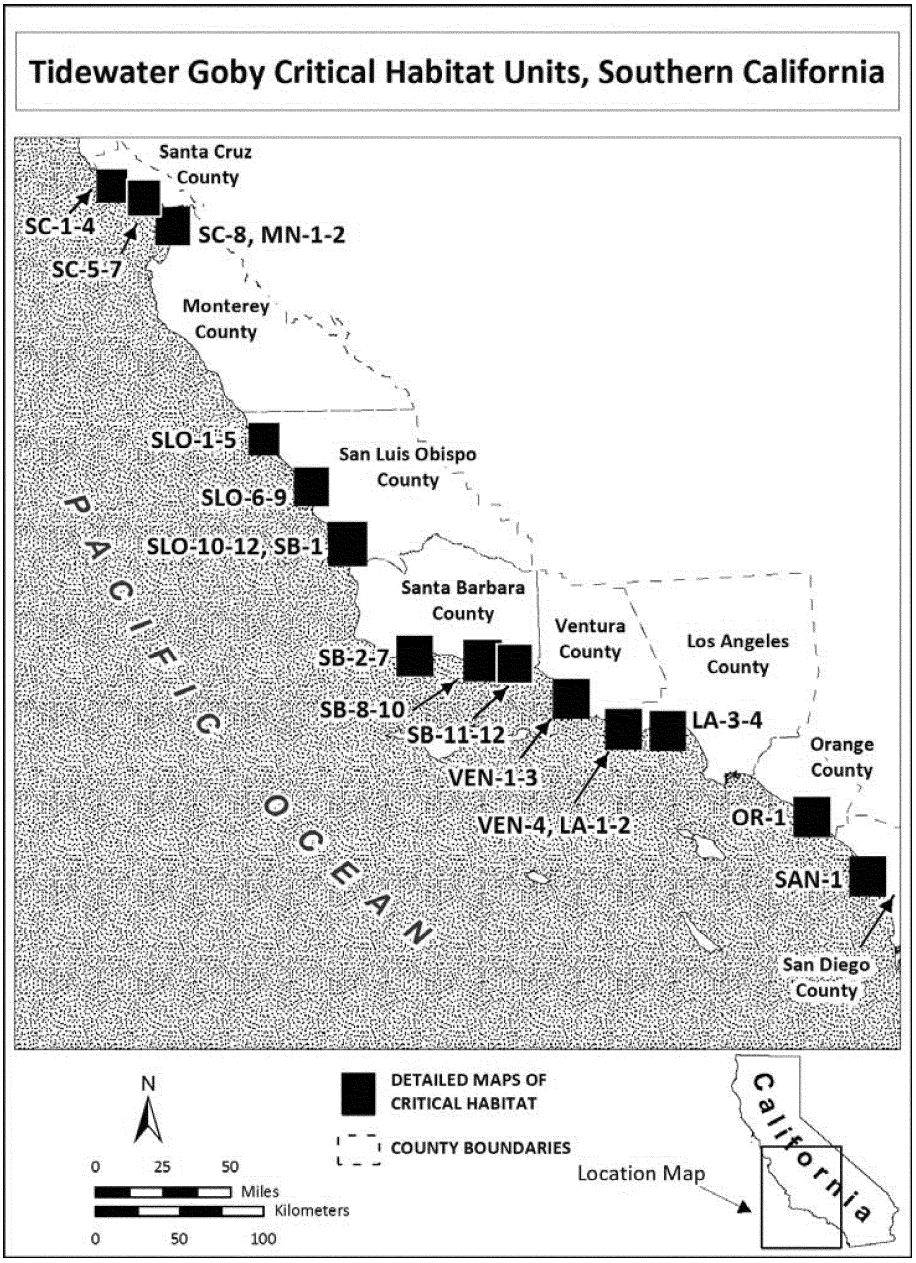


(25) Unit SM 2: Pomponio Creek, San Mateo County, California. Map of Units SM 1, SM 2, SM 3, and SM 4 is provided at paragraph (24) of this entry.

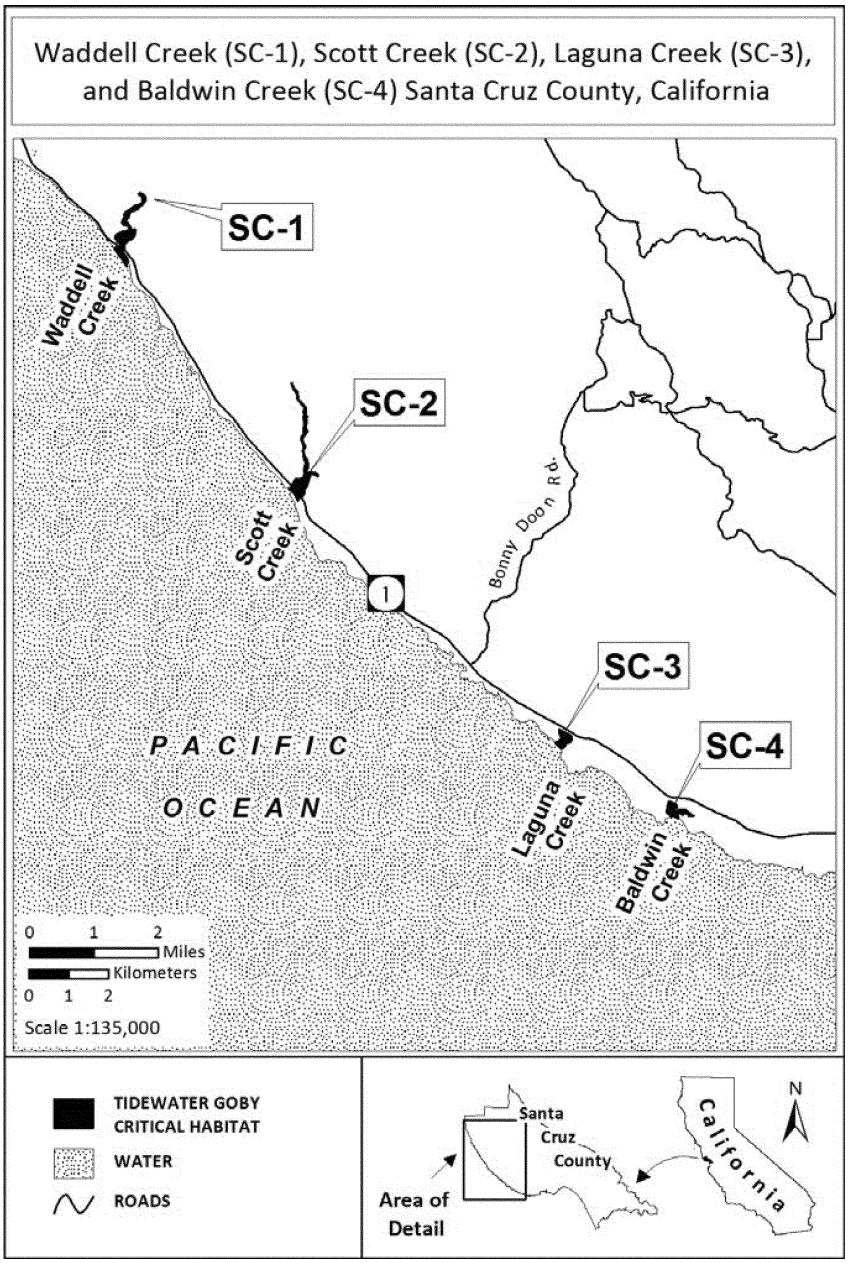
(26) Unit SM 3: Pescadero-Butano Creeks, San Mateo County, California. Map of Units SM 1, SM 2, SM 3, and SM 4 is provided at paragraph (24) of this entry.

(27) Unit SM 4: Bean Hollow Creek, San Mateo County, California. Map of Units SM 1, SM 2, SM 3, and SM 4 is provided at paragraph (24) of this entry.

(28) Index map of critical habitat units for the tidewater goby (*Eucyclogobius newberryi*) in Southern California follows:



(29) Unit SC 1: Waddell Creek, Santa Cruz County, California. Map of Unit SC 1, SC 2, SC 3, and SC 4 follows:

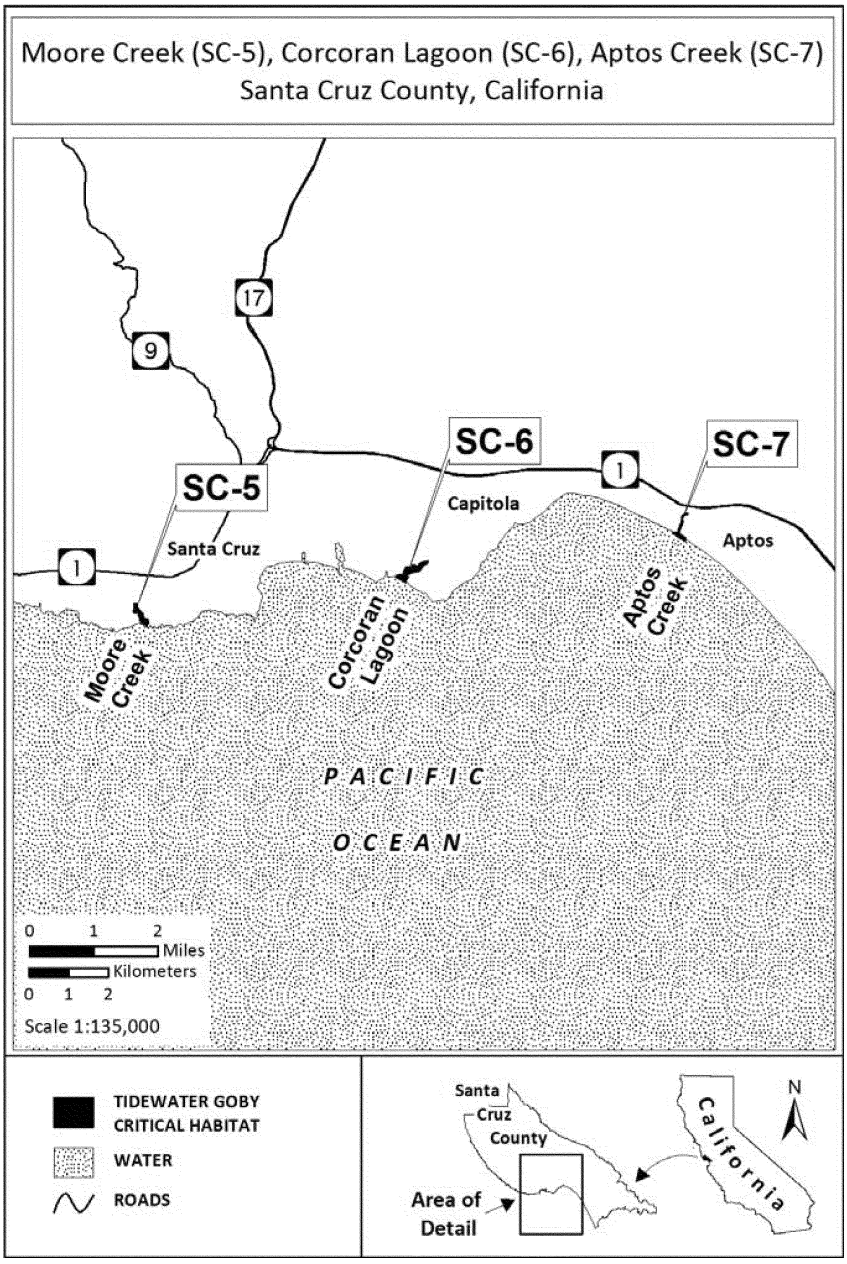


(30) Unit SC 2: Scott Creek, Santa Cruz County, California. Map of Units SC 1, SC 2, SC 3, and SC 4 is provided at paragraph (29) of this entry.

(31) Unit SC 3: Laguna Creek, Santa Cruz County, California. Map of Units SC 1, SC 2, SC 3, and SC 4 is provided at paragraph (29) of this entry.

(32) Unit SC 4: Baldwin Creek, Santa Cruz County, California. Map of Units SC 1, SC 2, SC 3, and SC 4 is provided at paragraph (29) of this entry.

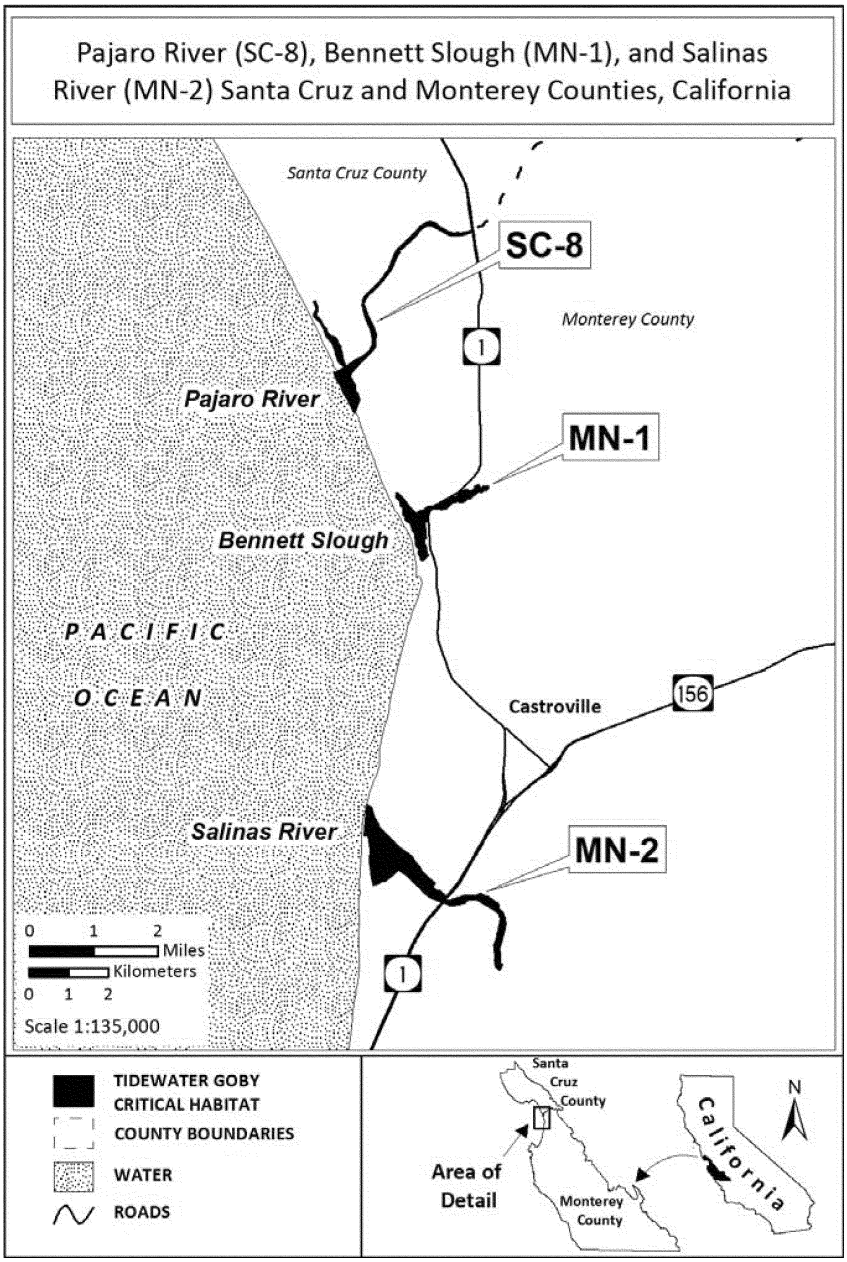
(33) Unit SC 5: Moore Creek, Santa Cruz County, California. Map of Units SC 5, SC 6, and SC 7 follows:



(34) Unit SC 6: Corcoran Lagoon, Santa Cruz County, California. Map of Units SC 5, SC 6, and SC 7 is provided at paragraph (33) of this entry.

(35) Unit SC 7: Aptos Creek, Santa Cruz County, California. Map of Units SC 5, SC 6, and SC 7 is provided at paragraph (33) of this entry.

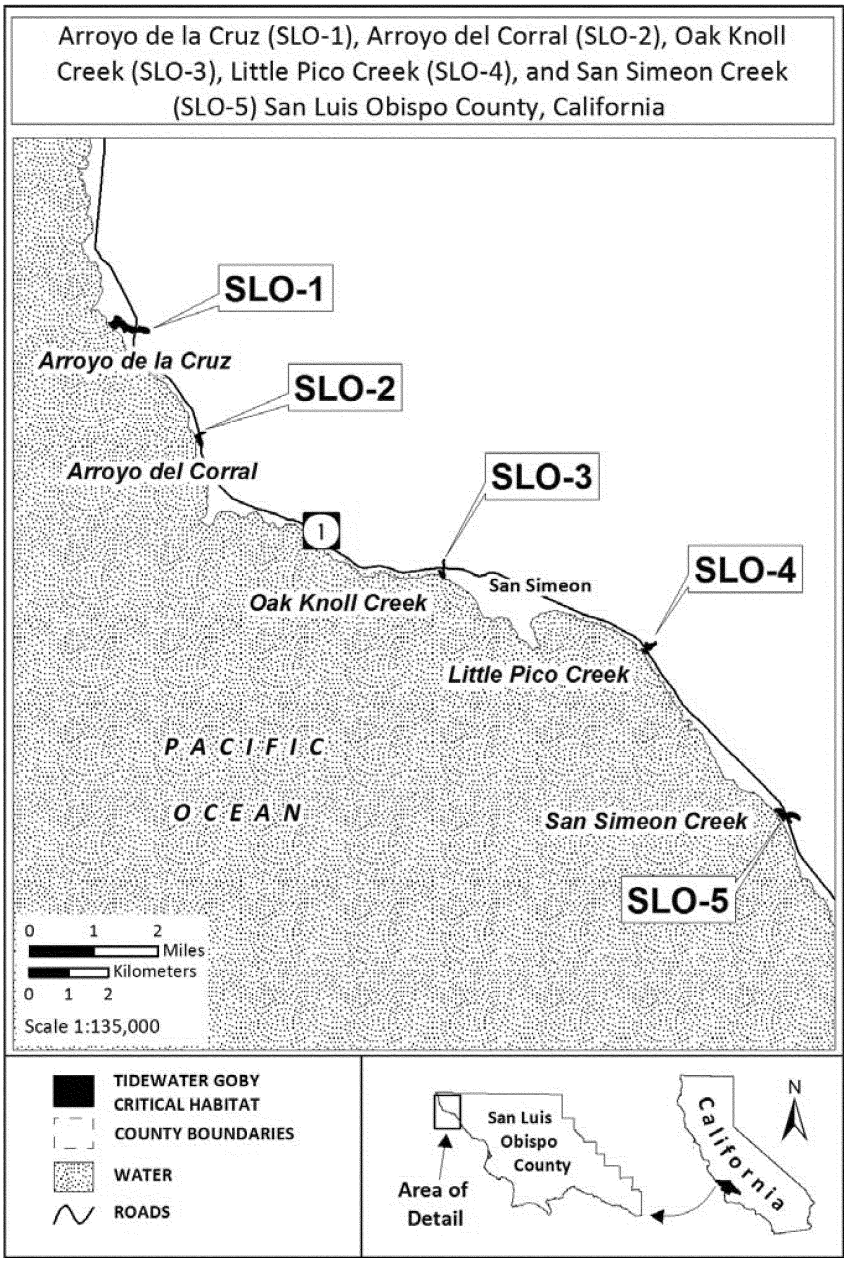
(36) Unit SC 8: Pajaro River, Santa Cruz County, California. Map of Units SC 8, MN 1, and MN 2 follows:



(37) Unit MN 1: Bennett Slough, Monterey County, California. Map of Units SC 8, MN 1, and MN 2 is provided at paragraph (36) of this entry.

(38) Unit MN 2: Salinas River, Monterey County, California. Map of Units SC 8, MN 1, and MN 2 is provided at paragraph (36) of this entry.

(39) Unit SLO 1: Arroyo de la Cruz, San Luis Obispo County, California. Map of Unit SLO 1, SLO 2, SLO 3, SLO 4, and SLO 5 follows:



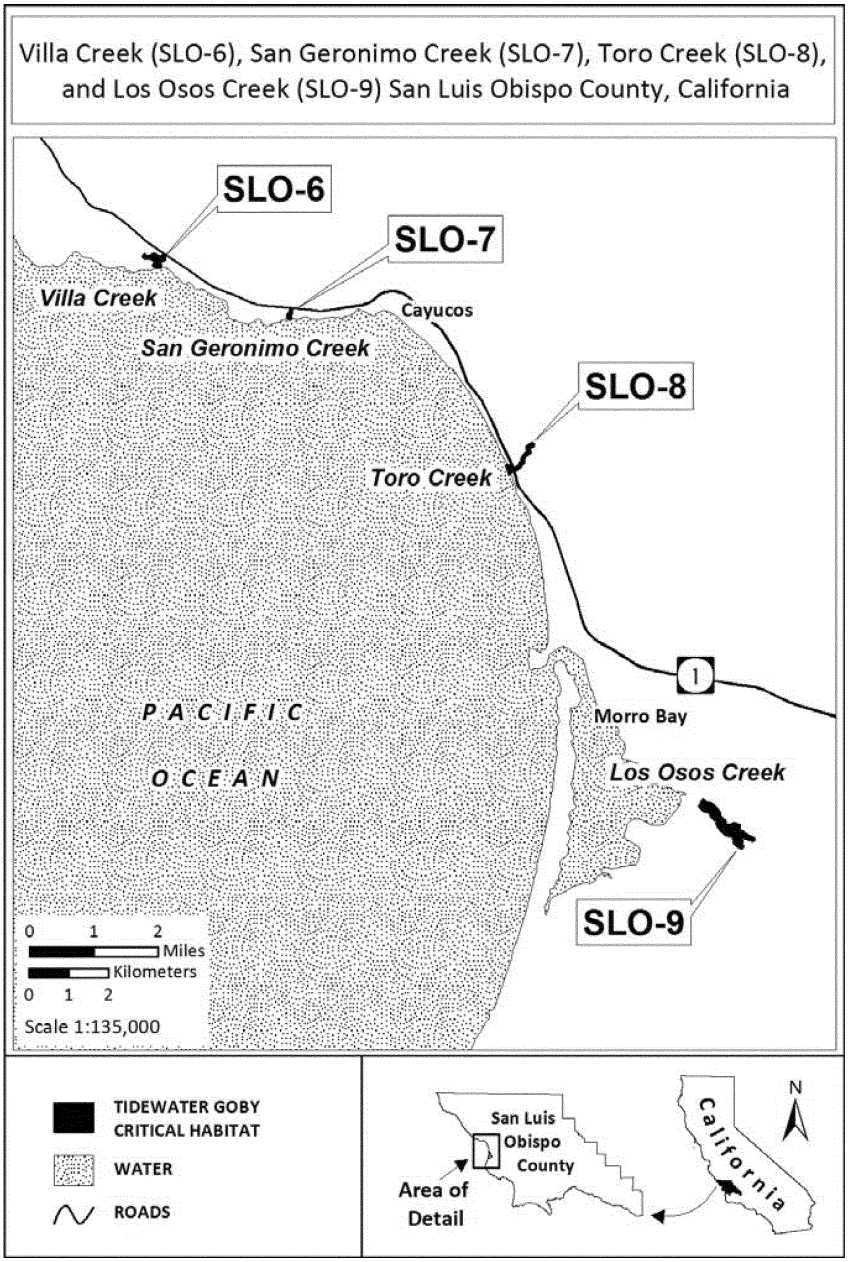
(40) Unit SLO 2: Arroyo del Corral, San Luis Obispo County, California. Map of Units SLO 1, SLO 2, SLO 3, SLO 4 and SLO 5 is provided at paragraph (39) of this entry.

(41) Unit SLO 3: Oak Knoll Creek, San Luis Obispo County, California. Map of Units SLO 1, SLO 2, SLO 3, SLO 4 and SLO 5 is provided at paragraph (39) of this entry.

(42) Unit SLO 4: Little Pico Creek, San Luis Obispo County, California. Map of Units SLO 1, SLO 2, SLO 3, SLO 4 and SLO 5 is provided at paragraph (39) of this entry.

(43) Unit SLO 5: San Simeon Creek, San Luis Obispo County, California. Map of Units SLO 1, SLO 2, SLO 3, SLO 4 and SLO 5 is provided at paragraph (39) of this entry.

(44) Unit SLO 6: Villa Creek, San Luis Obispo County, California. Map of Units SLO 6, SLO 7, SLO 8 and SLO 9 follows:

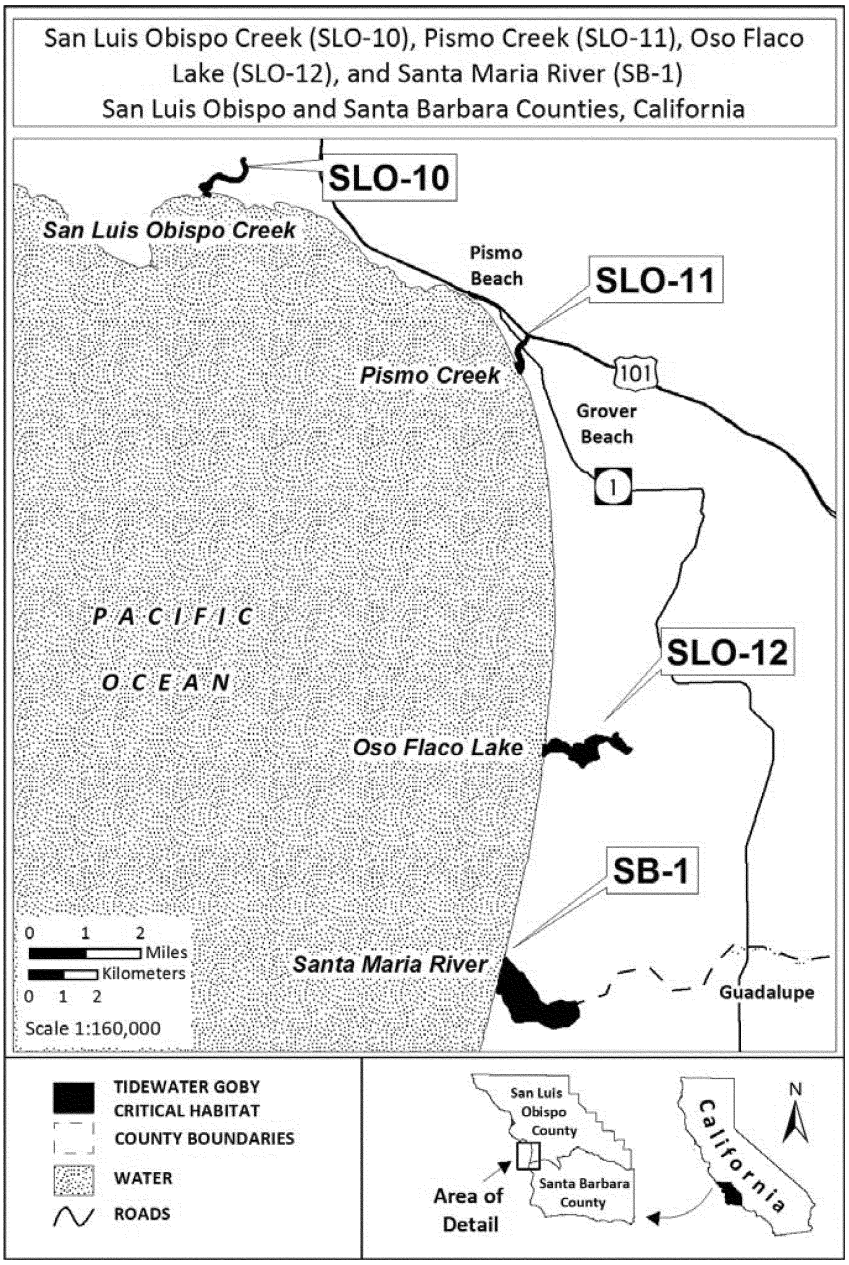


(45) Unit SLO 7: San Geronimo Creek, San Luis Obispo County, California. Map of Units SLO 6, SLO 7, SLO 8, and SLO 9 is provided at paragraph (44) of this entry.

(46) Unit SLO 8: Toro Creek, San Luis Obispo County, California. Map of Units SLO 6, SLO 7, SLO 8, and SLO 9 is provided at paragraph (44) of this entry.

(47) Unit SLO 9: Los Osos Creek, San Luis Obispo County, California. Map of Units SLO 6, SLO 7, SLO 8, and SLO 9 is provided at paragraph (44) of this entry.

(48) Unit SLO 10: San Luis Obispo Creek, San Luis Obispo County, California. Map of Units SLO 10, SLO 11, SLO 12, and SB 1 follows:

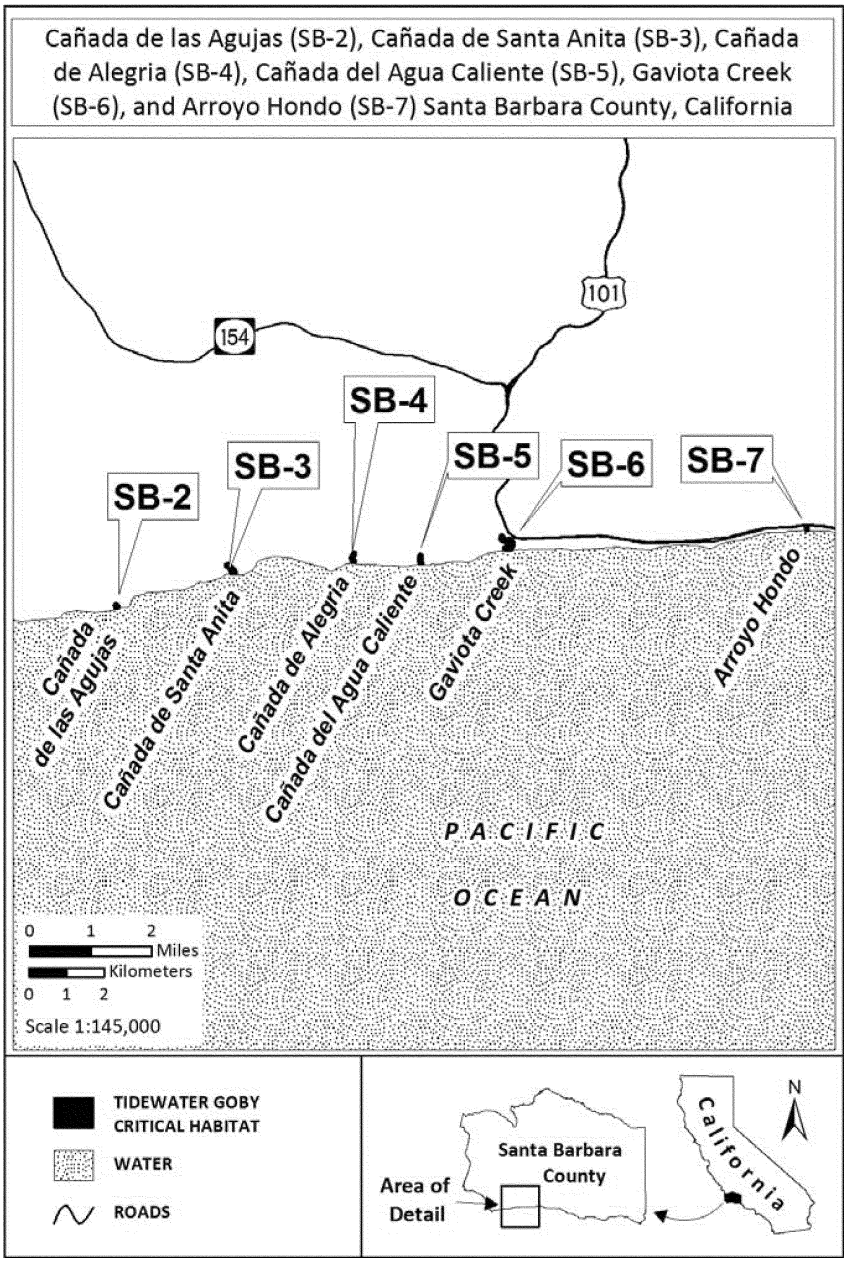


(49) Unit SLO 11: Pismo Creek, San Luis Obispo County, California. Map of Units SLO 10, SLO 11, SLO 12, and SB 1 is provided at paragraph (48) of this entry.

(50) Unit SLO 12: Oso Flaco Lake, San Luis Obispo County, California. Map of Units SLO 10, SLO 11, SLO 12, and SB 1 is provided at paragraph (48) of this entry.

(51) Unit SB 1: Santa Maria River, San Luis Obispo County, California. Map of Units SLO 10, SLO 11, SLO 12, and SB 1 is provided at paragraph (48) of this entry.

(52) Unit SB 2: Cañada de las Agujas, Santa Barbara County, California. Map of Units SB 2, SB 3, SB 4, SB 5, SB 6, and SB 7 follows:



(53) Unit SB 3: Cañada de Santa Anita, Santa Barbara County, California. Map of Units SB 2, SB 3, SB 4, SB 5, SB 6, and SB 7 is provided at paragraph (52) of this entry.

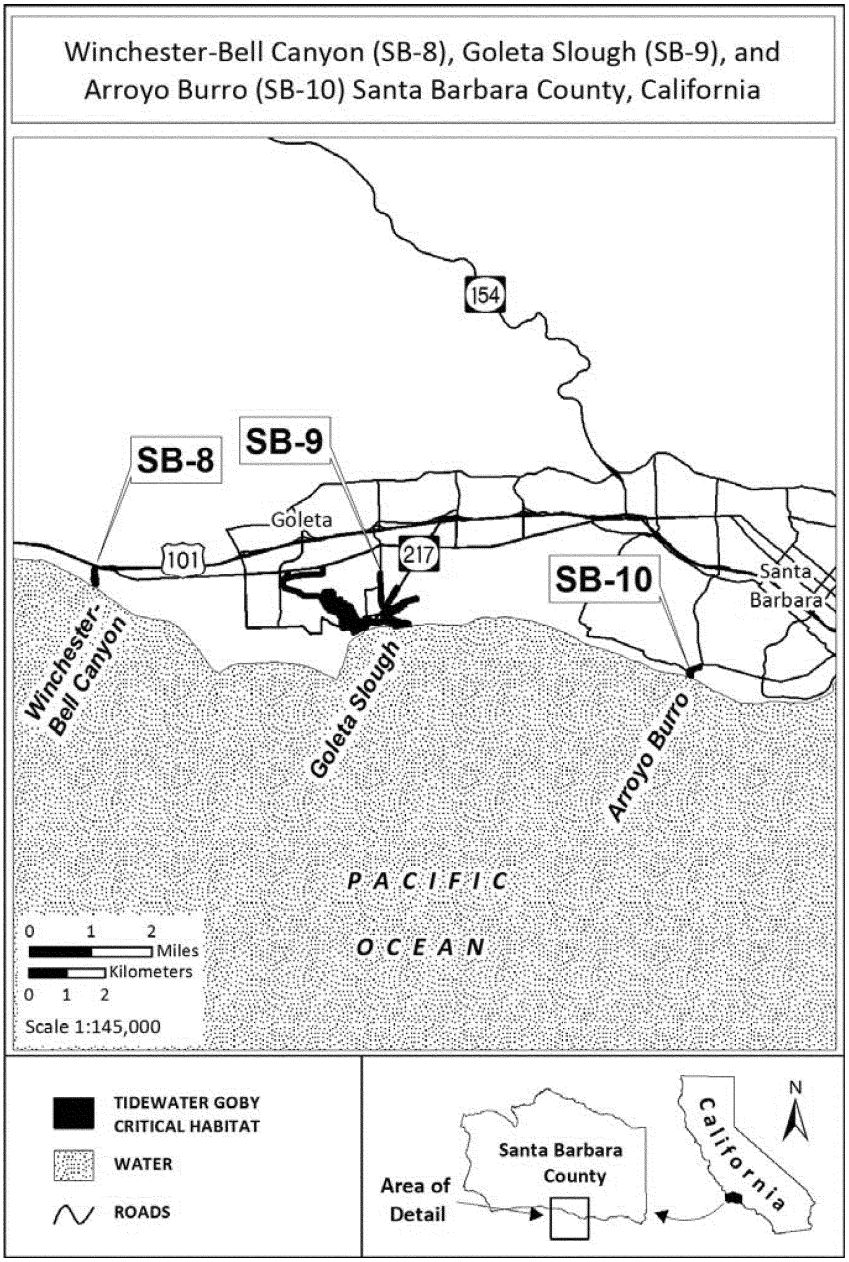
(54) Unit SB 4: Cañada de Alegria, Santa Barbara County, California. Map of Units SB 2, SB 3, SB 4, SB 5, SB 6, and SB 7 is provided at paragraph (52) of this entry.

(55) Unit SB 5: Cañada del Agua Caliente, Santa Barbara County, California. Map of Units SB 2, SB 3, SB 4, SB 5, SB 6, and SB 7 is provided at paragraph (52) of this entry.

(56) Unit SB 6: Gaviota Creek, Santa Barbara County, California. Map of Units SB 2, SB 3, SB 4, SB 5, SB 6, and SB 7 is provided at paragraph (52) of this entry.

(57) Unit SB 7: Arroyo Hondo, Santa Barbara County, California. Map of Units SB 2, SB 3, SB 4, SB 5, SB 6, and SB 7 is provided at paragraph (52) of this entry.

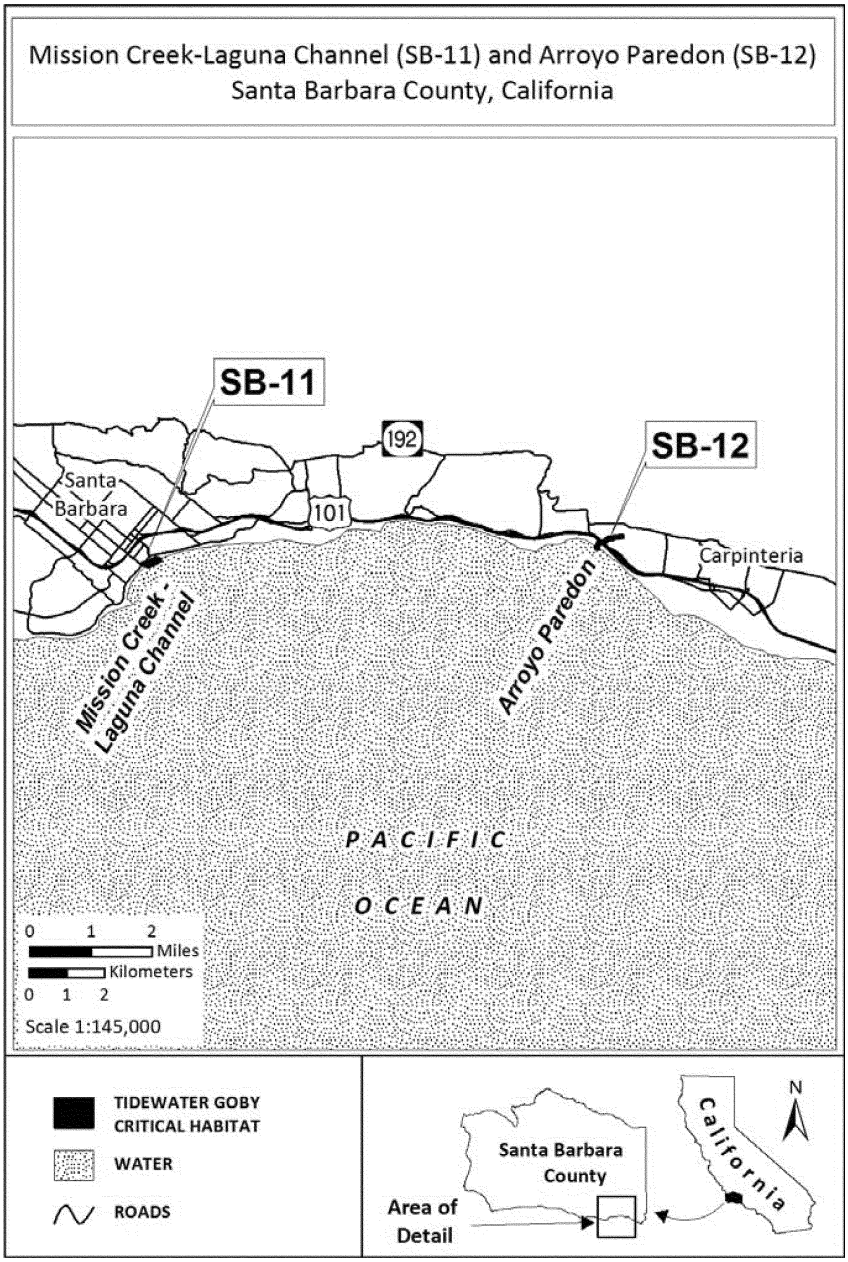
(58) Unit SB 8: Winchester-Bell Canyon, Santa Barbara County, California. Map of SB 8, SB 9, and SB 10 follows:



(59) Unit SB 9: Goleta Slough, Santa Barbara County, California. Map of Units SB 8, SB 9, and SB 10 is provided at paragraph (58) of this entry.

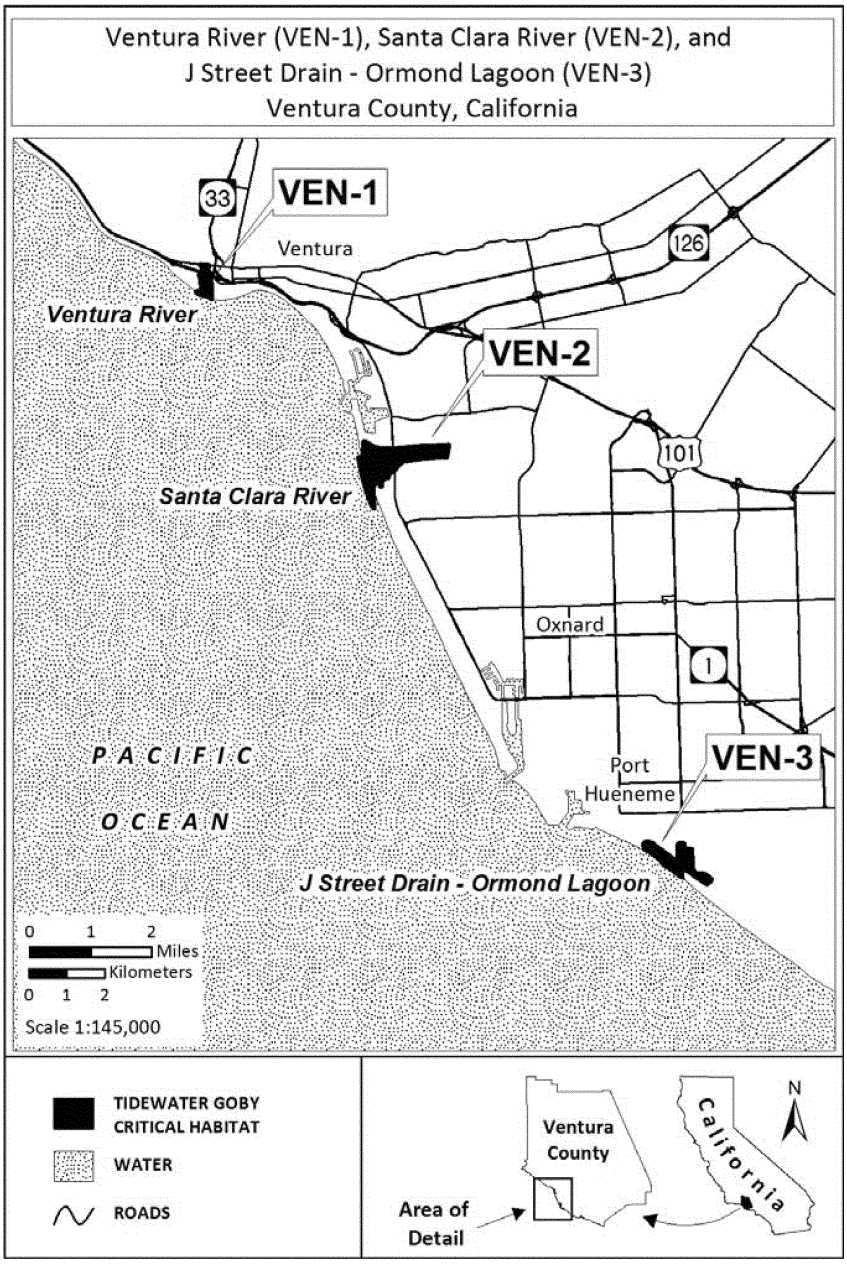
(60) Unit SB 10: Arroyo Burro, Santa Barbara County, California. Map of Units SB 8, SB 9, and SB 10 is provided at paragraph (58) of this entry.

(61) Unit SB 11: Mission Creek—Laguna Channel, Santa Barbara County, California. Map of Units SB 11 and SB 12 follows:



(62) Unit SB 12: Arroyo Paredon, Santa Barbara County, California. Map of Units SB 11 and SB 12 is provided at paragraph (61) of this entry.

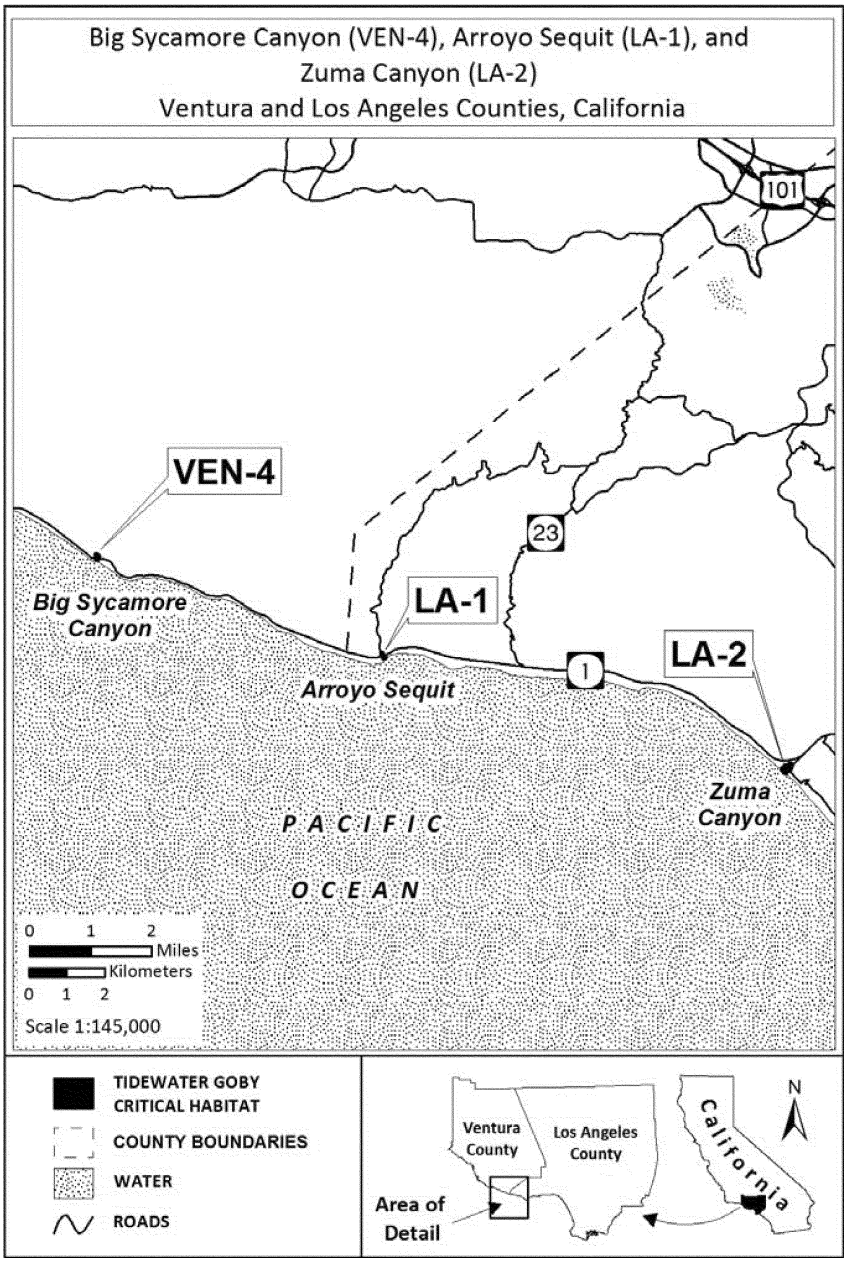
(63) Unit VEN 1: Ventura River, Ventura County, California. Map of VEN 1, VEN 2, and VEN 3 follows:



(64) Unit VEN 2: Santa Clara River, Ventura County, California. Map of Units VEN 1, VEN 2, and VEN 3 is provided at paragraph (63) of this entry.

(65) Unit VEN 3: J Street Drain—Ormond Lagoon, Ventura County, California. Map of Units VEN 1, VEN 2, and VEN 3 is provided at paragraph (63) of this entry.

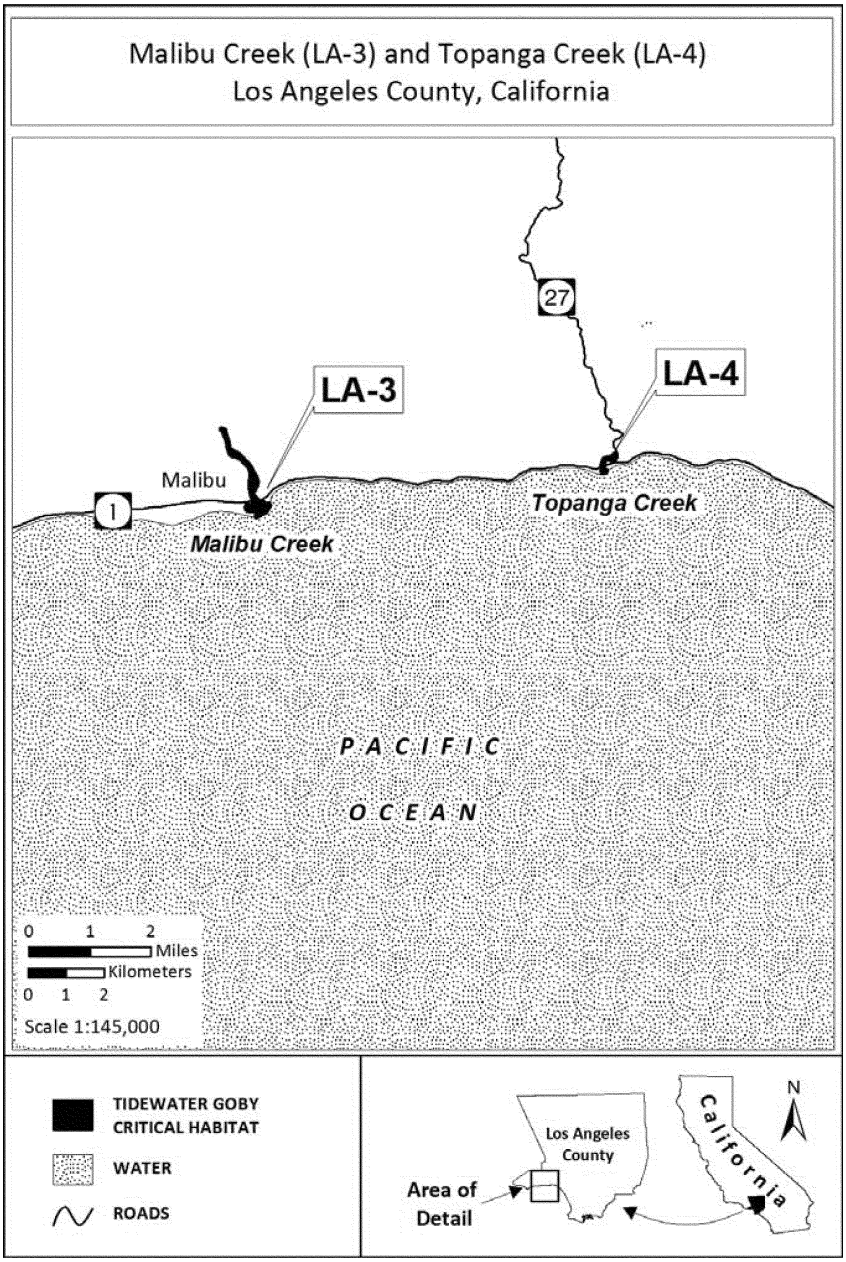
(66) Unit VEN 4: Big Sycamore Canyon, Ventura County, California. Map of Units VEN 1, LA 1, and LA 2 follows:



(67) Unit LA 1: Arroyo Sequit, Los Angeles County, California. Map of Units VEN 4, LA 1, and LA 2 is provided at paragraph (66) of this entry.

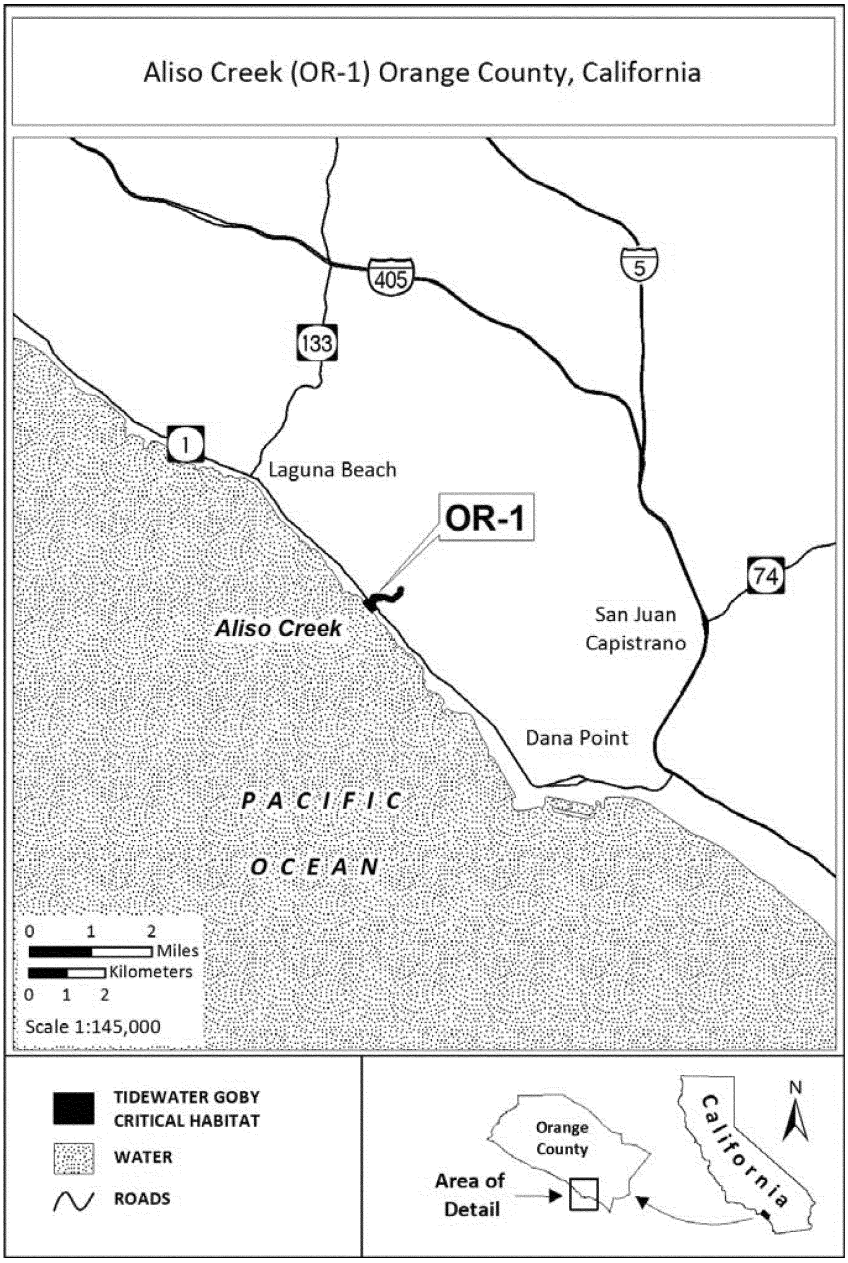
(68) Unit LA 2: Zuma Canyon, Los Angeles County, California. Map of Units VEN 4, LA 1, and LA 2 is provided at paragraph (66) of this entry.

(69) Unit LA 3: Malibu Creek, Los Angeles County, California. Map of Units LA 3, and LA 4 follows:

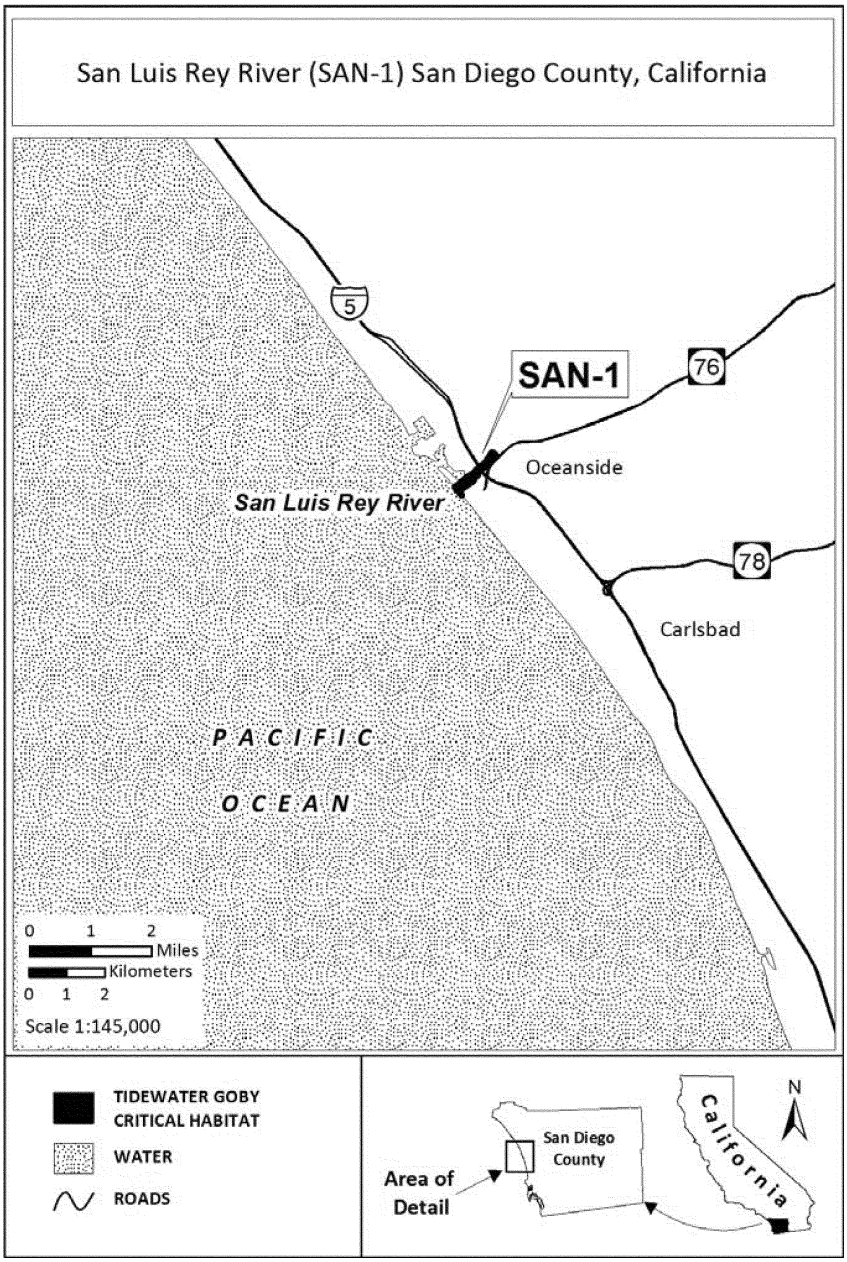


(70) Unit LA 4: Topanga Creek, Los Angeles County, California. Map of Units LA 3, and LA 4 is provided at paragraph (69) of this entry.

(71) Unit OR 1: Aliso Creek, Orange County, California. Map of Unit OR 1 follows:



(72) Unit SAN 1: San Luis Rey River, San Diego County, California. Map of Unit SAN 1 follows:

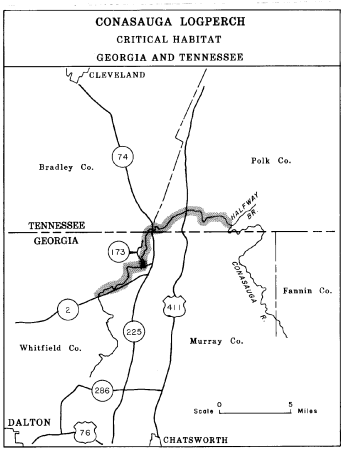


CONASAUGA LOGPERCH (*Percina jenkinsi*)

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: The map provided is for informational purposes only. Map follows:



CHUCKY MADTOM (*Noturus crypticus*)

(1) The critical habitat unit is depicted for Greene County, Tennessee, on the maps below.

(2) Within this area, the primary constituent elements of the physical and biological features essential to the conservation of the Chucky madtom consist of five components:

(i) Gently flowing run and pool reaches of geomorphically stable streams with cool, clean, flowing water; shallow depths; and connectivity between spawning, foraging, and resting sites to promote gene flow throughout the species' range.

(ii) Stable bottom substrates composed of relatively silt-free, flat gravel, cobble, and slab-rock boulders.

(iii) An instream flow regime (magnitude, frequency, duration, and seasonality of discharge over time) sufficient to provide permanent surface flows, as measured during years with average rainfall, and to maintain benthic habitats utilized by the species.

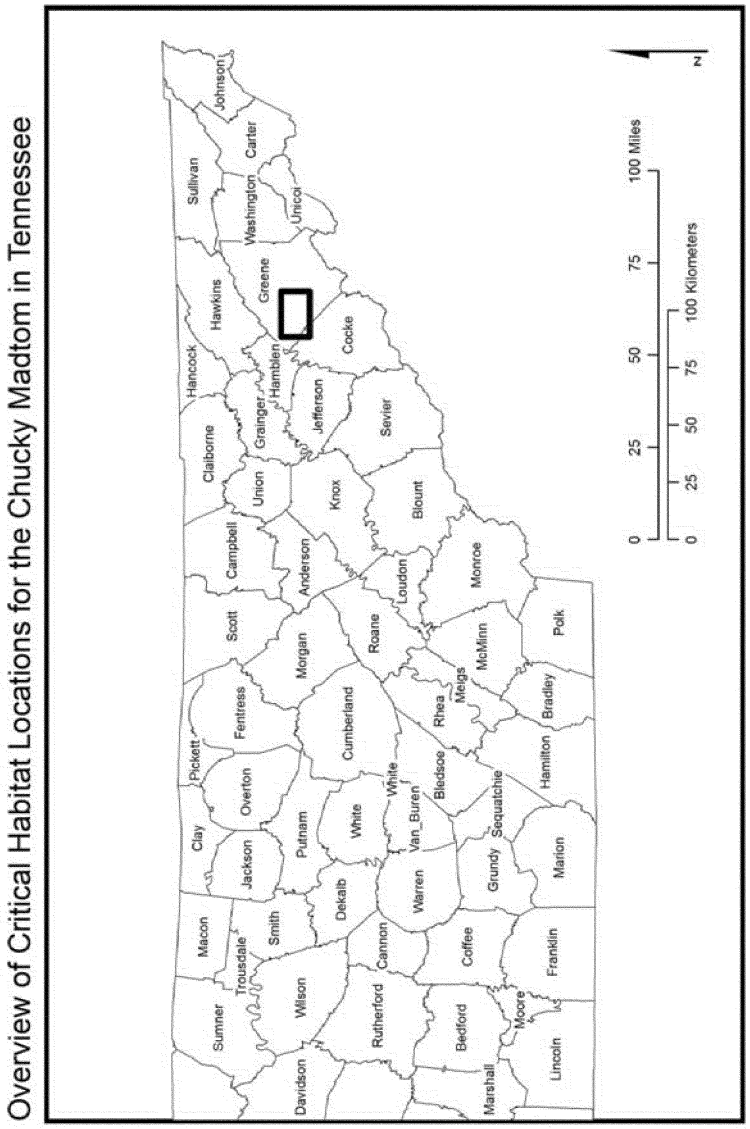
(iv) Adequate water quality characterized by moderate stream temperatures, acceptable dissolved oxygen concentrations, moderate pH, and low levels of pollutants. Adequate water quality is defined for the purpose of this rule as the quality necessary for normal behavior, growth, and viability of all life stages of the Chucky madtom.

(v) Prey base of aquatic macroinvertebrates, including midge larvae, mayfly nymphs, caddisfly larvae, and stonefly larvae.

(3) Critical habitat does not include manmade 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 November 15, 2012.

(4) *Critical habitat unit maps.* Data layers defining map units were created on a base of USGS digital ortho-photo quarter-quadrangles, and critical habitat units were then mapped using Tennessee State Plane, Lambert Conformal Conic Projection, units feet. Upstream and downstream limits were then identified by longitude and latitude using decimal degrees and projected in WGS 1984. The maps in this entry, as modified by any accompanying regulatory text, establish the boundaries of the critical habitat designation. The coordinates or plot points or both on which each map is based are available to the public at the field office Internet site (*http://www.fws.gov/cookeville*), *http://www.regulations.gov* at Docket No. FWS–R4–ES–2011–0074, and at the Service's Tennessee Fish and Wildlife Office. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2.

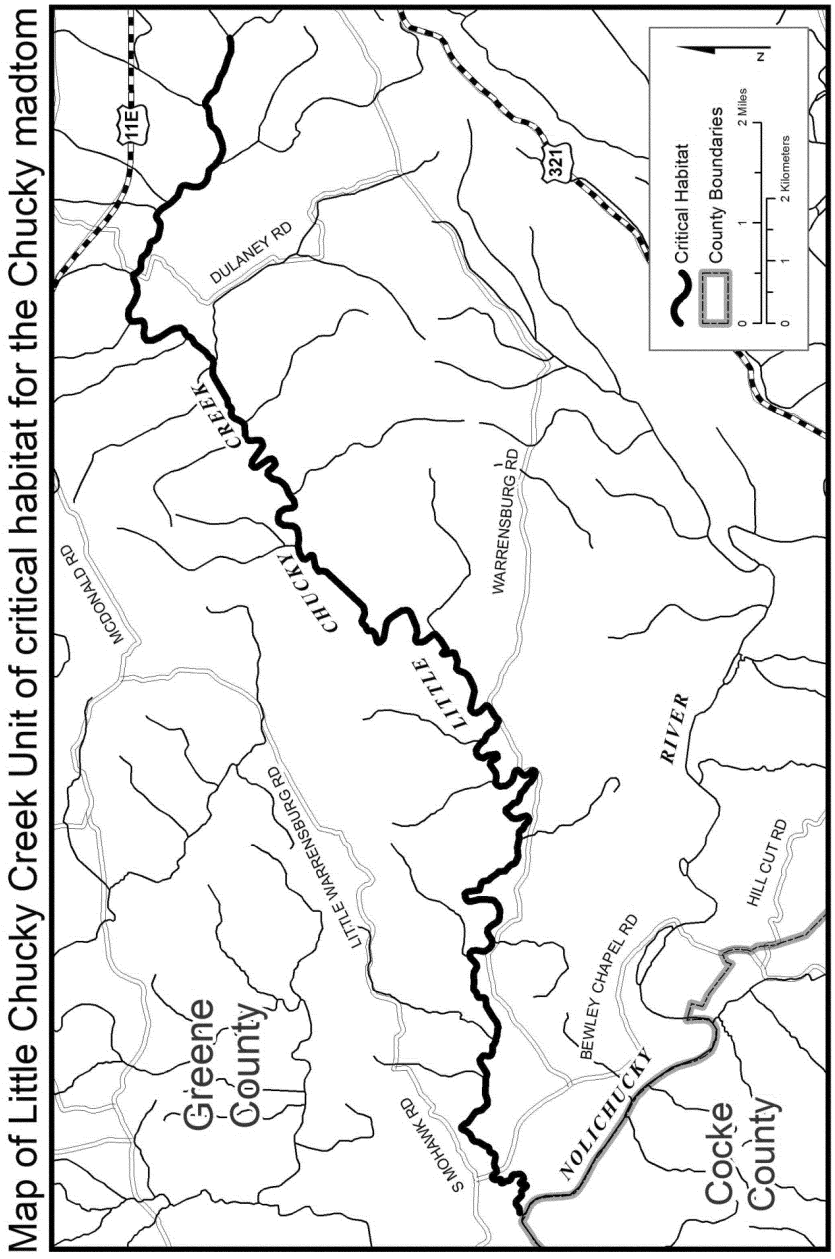
(5) Index map follows:



(6) Little Chucky Creek Unit, Greene County, Tennessee.

(i) Little Chucky Creek Unit includes 31.9 river kilometers (19.8 river miles) of Little Chucky Creek from its confluence with an unnamed tributary, downstream to its confluence with the Nolichucky River, at the Greene and Cocke County line, Tennessee.

(ii) Map of Little Chucky Creek Unit of critical habitat for the Chucky madtom follows:



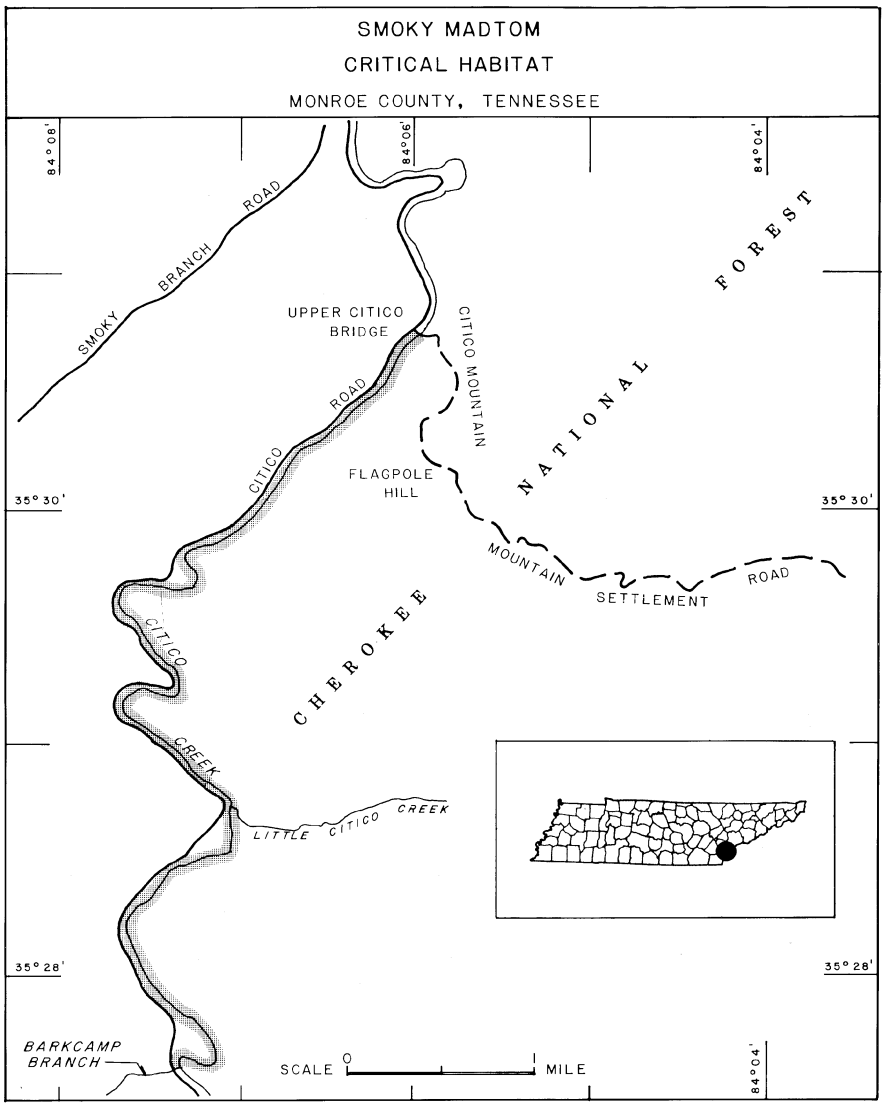
SMOKY MADTOM (*Noturus baileyi*)

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: The map provided is for informational purposes only. Map follows:

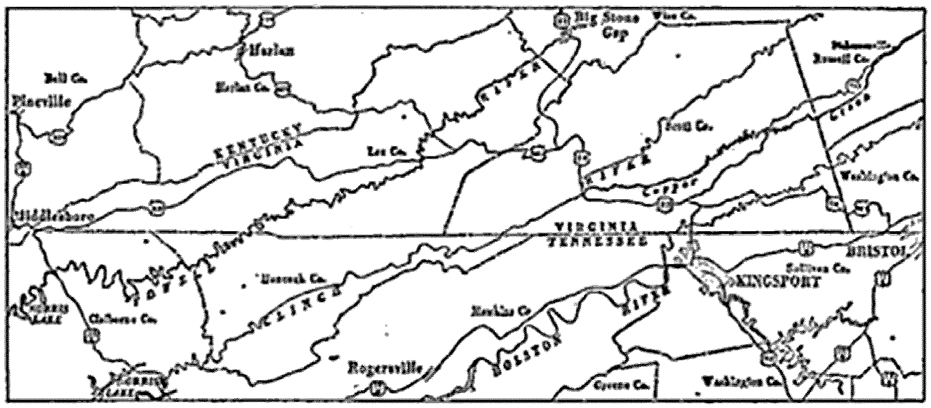


YELLOWFIN MADTOM (*Noturus flavipinnis*)

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: The map provided is for informational purposes only. Map follows:



Critical Habitat for Yellowfin Madtom

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.

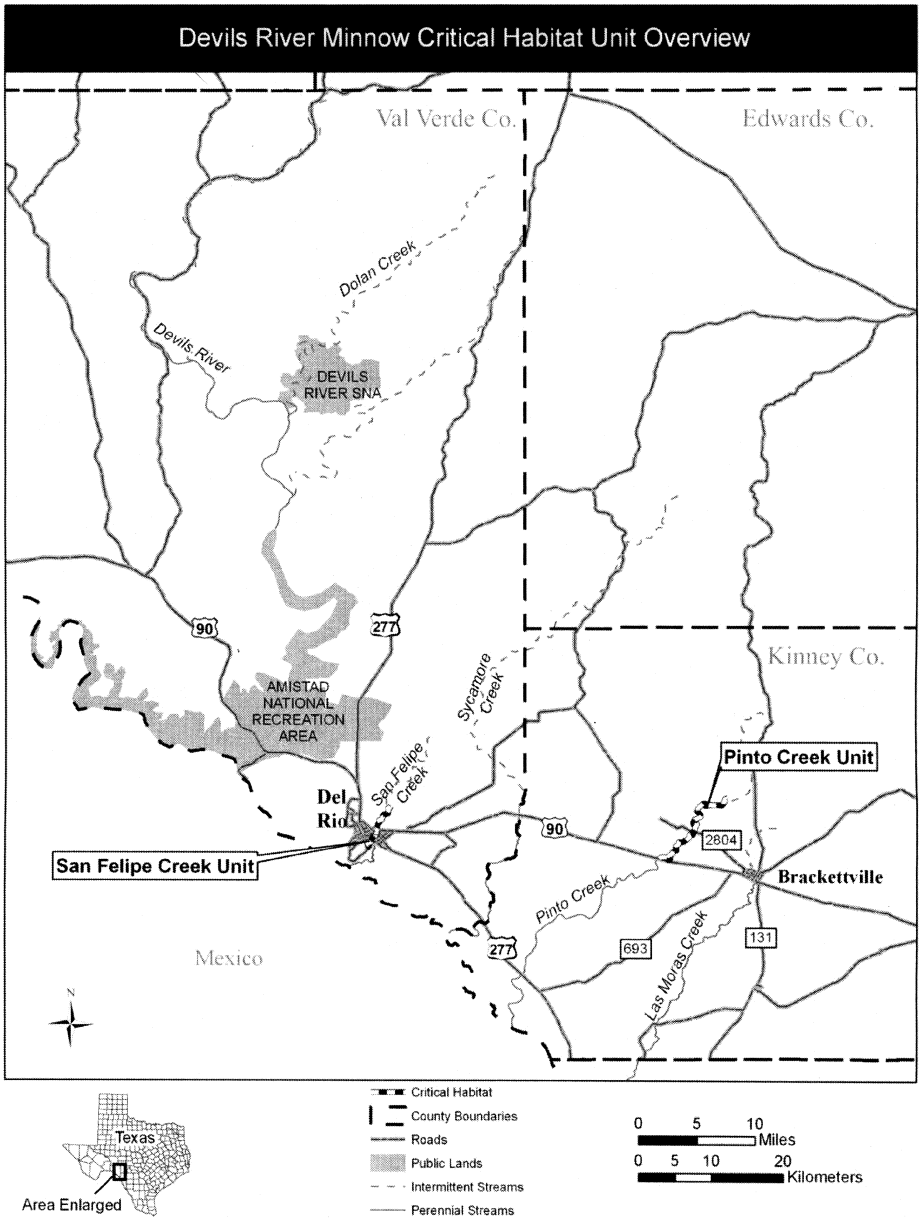
(iv) Aquatic stream habitat either devoid of nonnative aquatic species (including fish, plants, and invertebrates) or in which such nonnative aquatic species are at levels that allow for healthy populations of Devils River minnows.

(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:

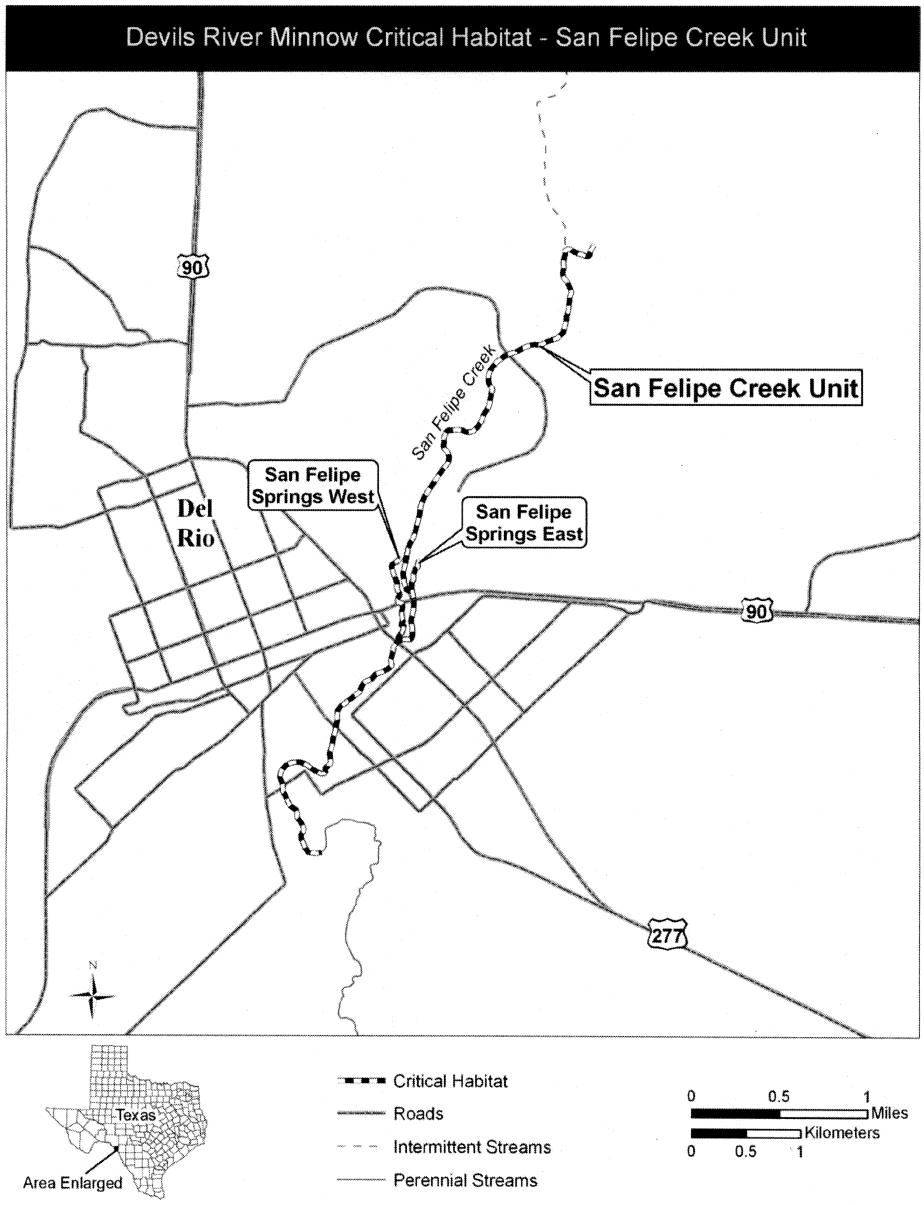


(6) Unit 2: San Felipe Creek, Val Verde County, Texas.

(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).

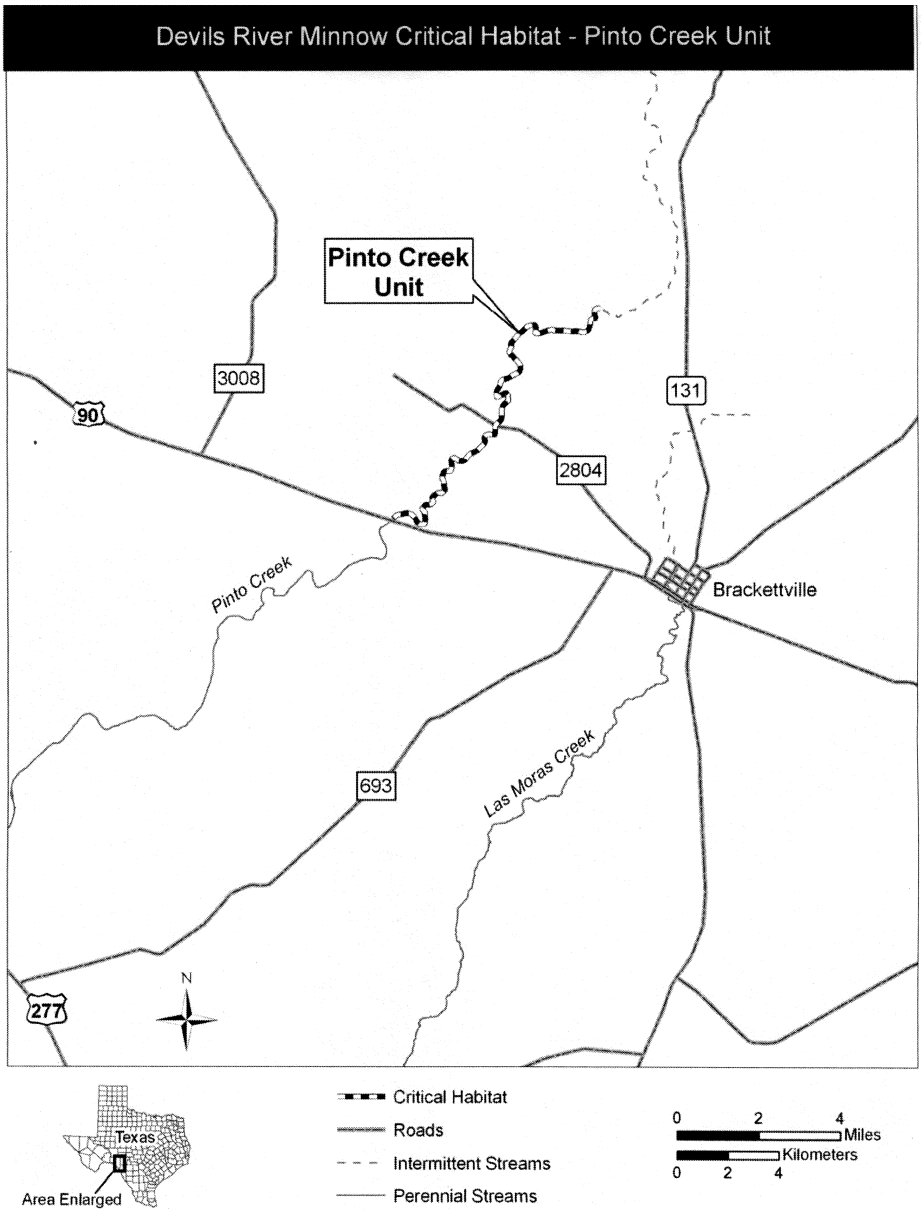
(ii) Map of Unit 2, San Felipe Creek Unit, follows:



(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) Map of Unit 3, Pinto Creek Unit, follows:



LOACH MINNOW (*Tiaroga cobitis*)

(1) Critical habitat units are depicted for Apache, Cochise, Gila, Graham, Greenlee, Pinal, and Yavapai Counties, Arizona, and for Catron, Grant, and Hidalgo Counties, New Mexico, on the maps below.

(2) Within these areas, the primary constituent elements (PCE) of the physical or biological features essential to the conservation of loach minnow consist of six components:

(i) Habitat to support all egg, larval, juvenile, and adult loach minnow. This habitat includes perennial flows with a stream depth of generally less than 1 m (3.3 ft), and with slow to swift flow velocities between 0 and 80 cm per second (0.0 and 31.5 in. per second). Appropriate microhabitat types include pools, runs, riffles, and rapids over sand, gravel, cobble, and rubble substrates with low or moderate amounts of fine sediment and substrate embeddedness. Appropriate habitats have a low stream gradient of less than 2.5 percent and are at elevations below 2,500 m (8,202 ft). Water temperatures should be in the general range of 8.0 to 25.0 °C (46.4 to 77 °F).

(ii) An abundant aquatic insect food base consisting of mayflies, true flies, black flies, caddis flies, stoneflies, and dragonflies.

(iii) Streams with no or no more than low levels of pollutants.

(iv) Perennial flows or 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.

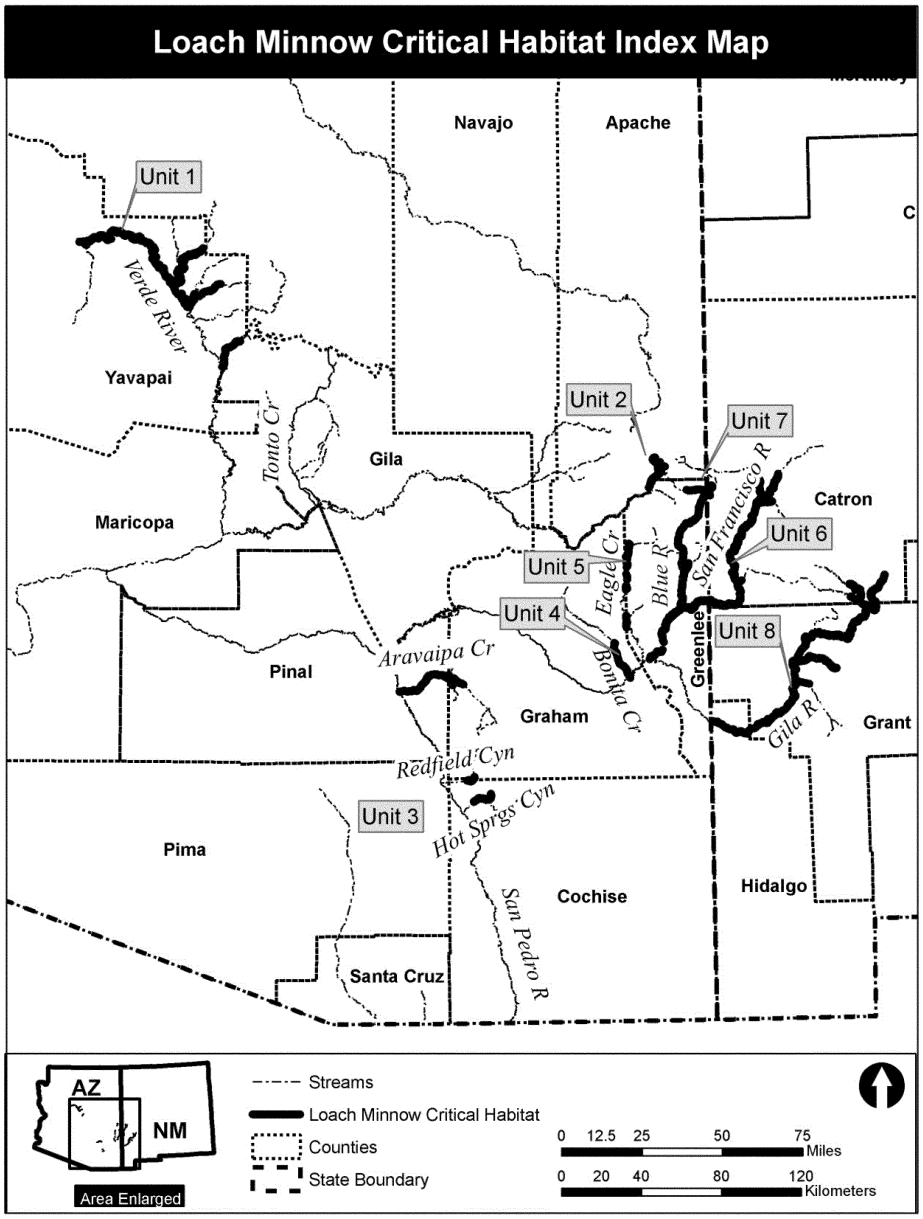
(v) No nonnative aquatic species, or levels of nonnative aquatic species that are sufficiently low to allow persistence of loach minnow.

(vi) Streams with a natural, unregulated flow regime that allows for periodic flooding or, if flows are modified or regulated, a flow regime that allows for adequate river functions, such as flows capable of transporting sediments.

(3) Critical habitat does not include manmade 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. We have determined that all designated areas contain at least one PCE for loach minnow.

(4) *Critical habitat map units.* Data layers defining map units were created on a base of USGS 7.5′ quadrangles along with shapefiles generated by the Arizona Land Resource Information Service for land ownership, streams, counties, and the Public Land Survey System. Information on species locations was derived from databases developed by the Arizona Game and Fish Department, the New Mexico Department of Game and Fish, and Arizona State University.

(5) *Note:* Index map follows:



(6) Unit 1: Verde River Subbasin, Yavapai County, Arizona.

(i) Verde River for approximately 118.5 km (73.6 mi), extending from the confluence with Beaver and Wet Beaver Creek in Township 14 North, Range 5 East, southeast quarter of section 30 upstream to Sullivan Dam in Township 17 North, Range 2 West, northwest quarter of section 15. This mileage does not include the 1.2 km (0.8 mi) belonging to the Yavapai-Apache Nation, which is excluded from this designation.

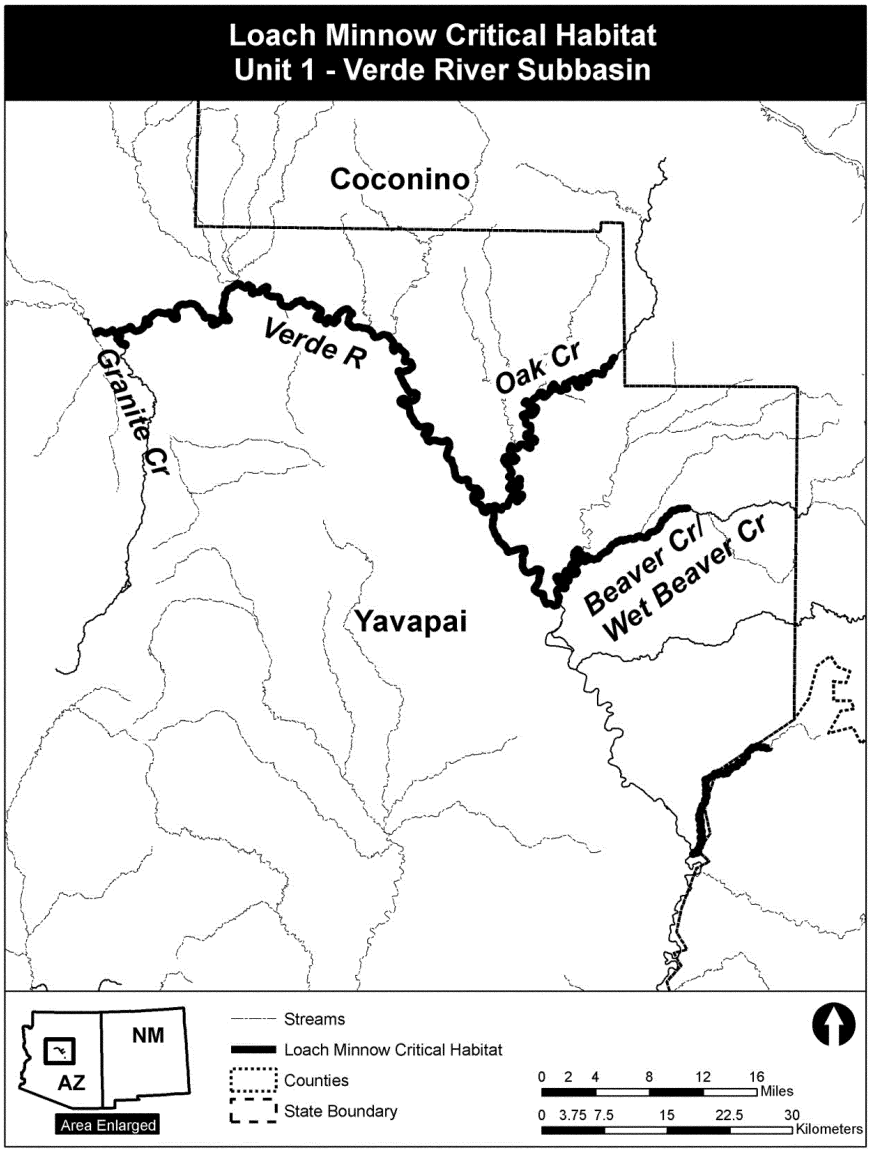
(ii) Granite Creek for approximately 3.2 km (2.0 mi), extending from the confluence with the Verde River in Township 17 North, Range 2 West, northeast quarter of section 14 upstream to a spring in Township 17 North, Range 2 West, southwest quarter of the southwest quarter of section 13.

(iii) Oak Creek for approximately 54.3 km (33.7 mi), extending from the confluence with the Verde River in Township 15 North, Range 4 East, southeast quarter of section 20 upstream to the confluence with an unnamed tributary from the south in Township 17 North, Range 5 East, southeast quarter of the northeast quarter of section 24.

(iv) Beaver Creek and Wet Beaver Creek for approximately 33.3 km (20.7 mi), extending from the confluence with the Verde River in Township 14 North, Range 5 East, southeast quarter of section 30 upstream to the confluence with Casner Canyon in Township 15 North, Range 6 East, northwest quarter of section 23. This mileage does not include the 0.2 km (0.1 mi) belonging to the Yavapai-Apache Nation, which is excluded from this designation.

(v) Fossil Creek for approximately 22.2 km (13.8 mi) from its confluence with the Verde River at Township 11 North, Range 6 East, northeast quarter of section 25 upstream to the old Fossil Diversion Dam site at Township 12 North, Range 7 East, southeast quarter of section 14.

(vi) Map of Unit 1, Verde River Subbasin follows.



(7) Unit 2: Salt River Subbasin, Apache and Gila Counties, Arizona.

(i) East Fork Black River for approximately 19.1 km (11.9 mi) from the confluence with the West Fork Black River at Township 4 North, Range 28 East, southeast quarter of section 11 upstream to the confluence with an unnamed tributary approximately 0.82 km (0.51 mi) downstream of the Boneyard Creek confluence at Township 5 North, Range 29 East, northwest quarter of Section 5.

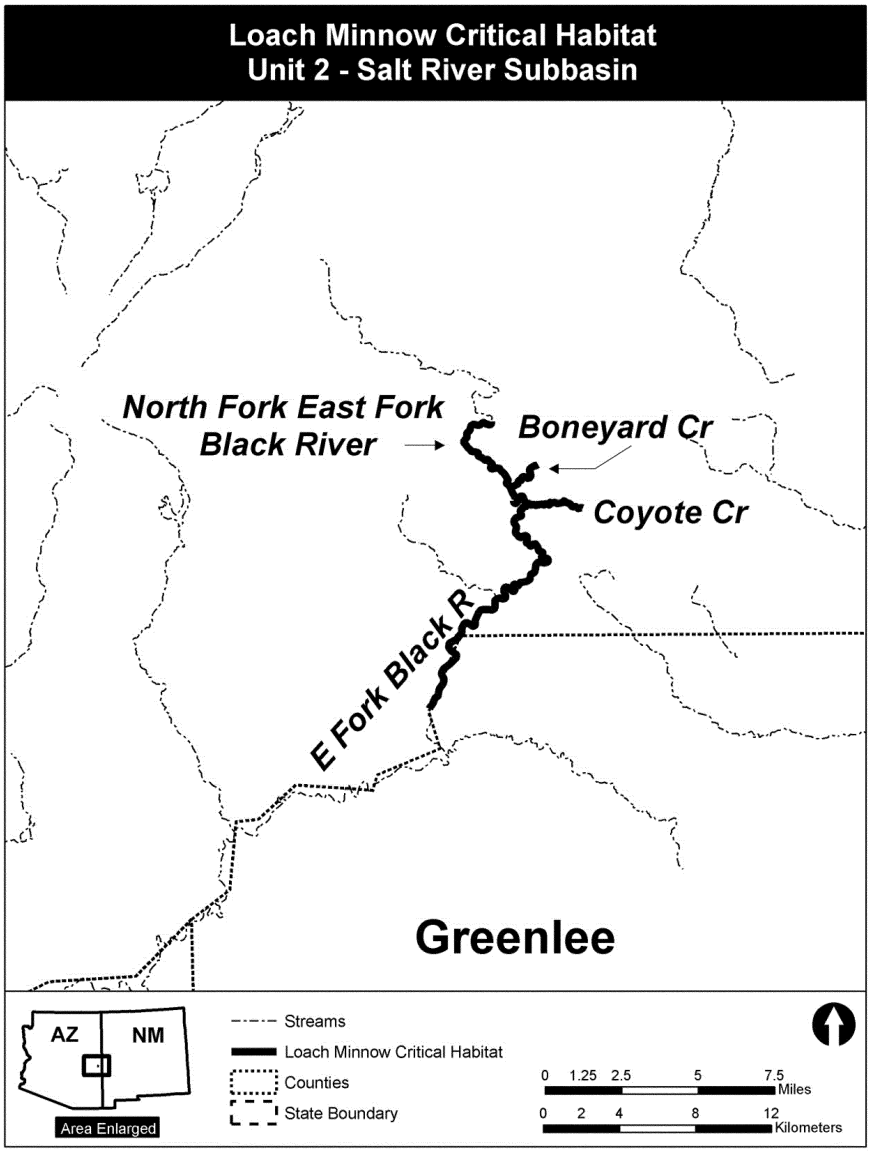
(ii) North Fork East Fork Black River for approximately 7.1 km (4.4 mi) of the North Fork East Fork Black River extending from the confluence with East Fork Black River

at Township 5 North, Range 29 East, northwest quarter of section 5 upstream to the confluence with an unnamed tributary at Township 6 North, Range 29 East, center of Section 30.

(iii) Boneyard Creek for approximately 2.3 km (1.4 mi) extending from the confluence with the East Fork Black River at Township 5 North, Range 29 East, SW quarter of section 5 upstream to the confluence with an unnamed tributary at Township 6 North, Range 29 East, southeast quarter of section 32.

(iv) Coyote Creek for approximately 3.4 km (2.1 mi) from the confluence with East Fork Black River at Township 5 North, Range 29 East, northeast quarter of section 8 upstream to an unnamed confluence at Township 5 North, Range 29 East, northwest quarter of section 10.

(v) Map of Unit 2, Salt River Subbasin follows.



(8) Unit 3: San Pedro River Subbasin, Cochise, Pinal, and Graham Counties, Arizona.

(i) Aravaipa Creek for approximately 44.9 km (27.9 mi) extending from the confluence with the San Pedro River in Township 7 South, Range 16 East, center of section 9 upstream to the confluence with Stowe Gulch in Township 6 South, Range 19 East, southeast quarter of the northeast quarter of section 35.

(ii) Deer Creek—3.7 km (2.3 mi) of the 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.

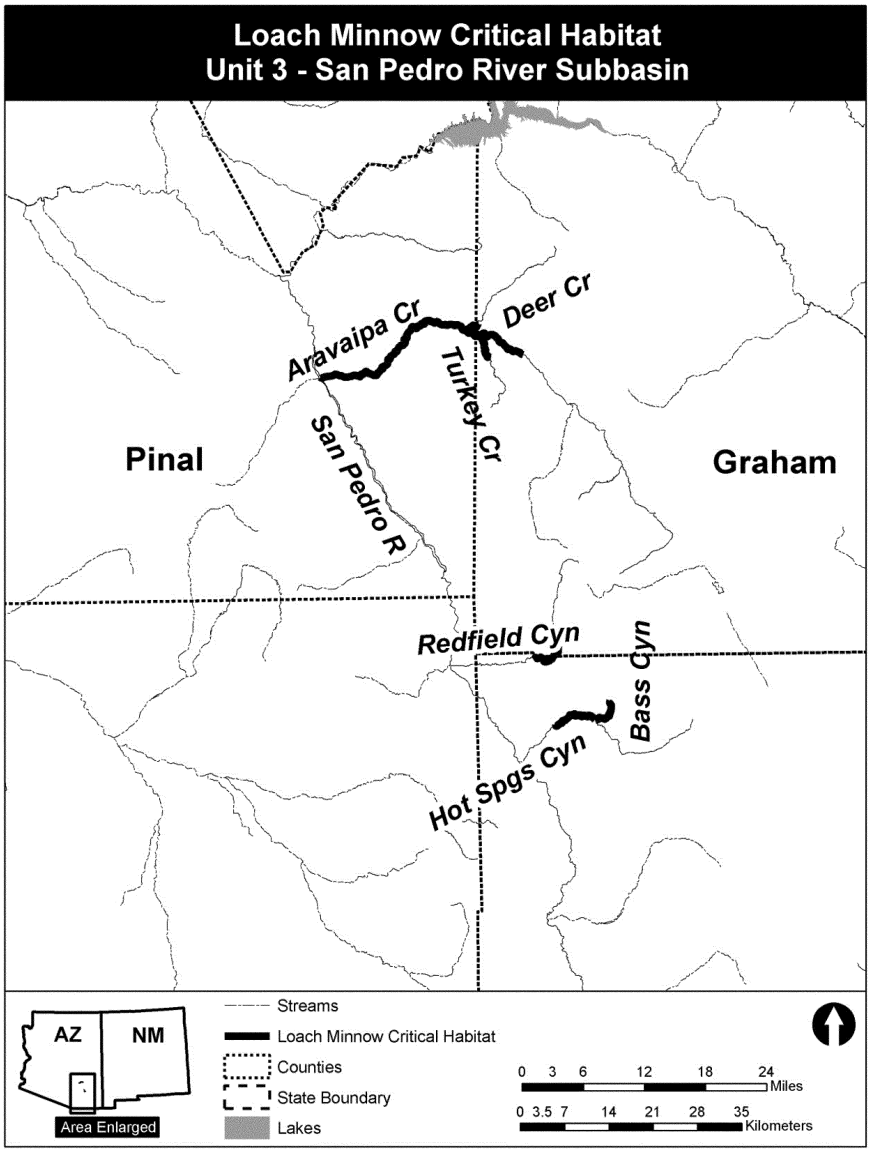
(iii) Turkey Creek—4.3 km (2.7 mi) of the creek extending from the confluence with Aravaipa Creek at Township 6 South, Range 19 East, section 19 upstream to the confluence with Oak Grove Canyon at Township 6 South, Range 19 east, section 32.

(iv) Hot Springs Canyon for approximately 9.3 km (5.8 mi) extending from the confluence with Bass Canyon in Township 12 South, Range 20 East, northeast quarter of section 36 downstream to Township 12 South, Range 20 East, southeast quarter of section 32.

(v) Redfield Canyon for approximately 6.5 km (4.0 mi) extending from Township 11 South, Range 19 East, northeast quarter of section 36 upstream to the confluence with Sycamore Canyon in Township 11 South, Range 20 East, northwest quarter of section 28.

(vi) Bass Canyon for approximately 5.5 km (3.4 mi) from the confluence with Hot Springs Canyon in Township 12 South, Range 20 East, northeast quarter of section 36 upstream to the confluence with Pine Canyon in Township 12 South, Range 21 East, center of section 20.

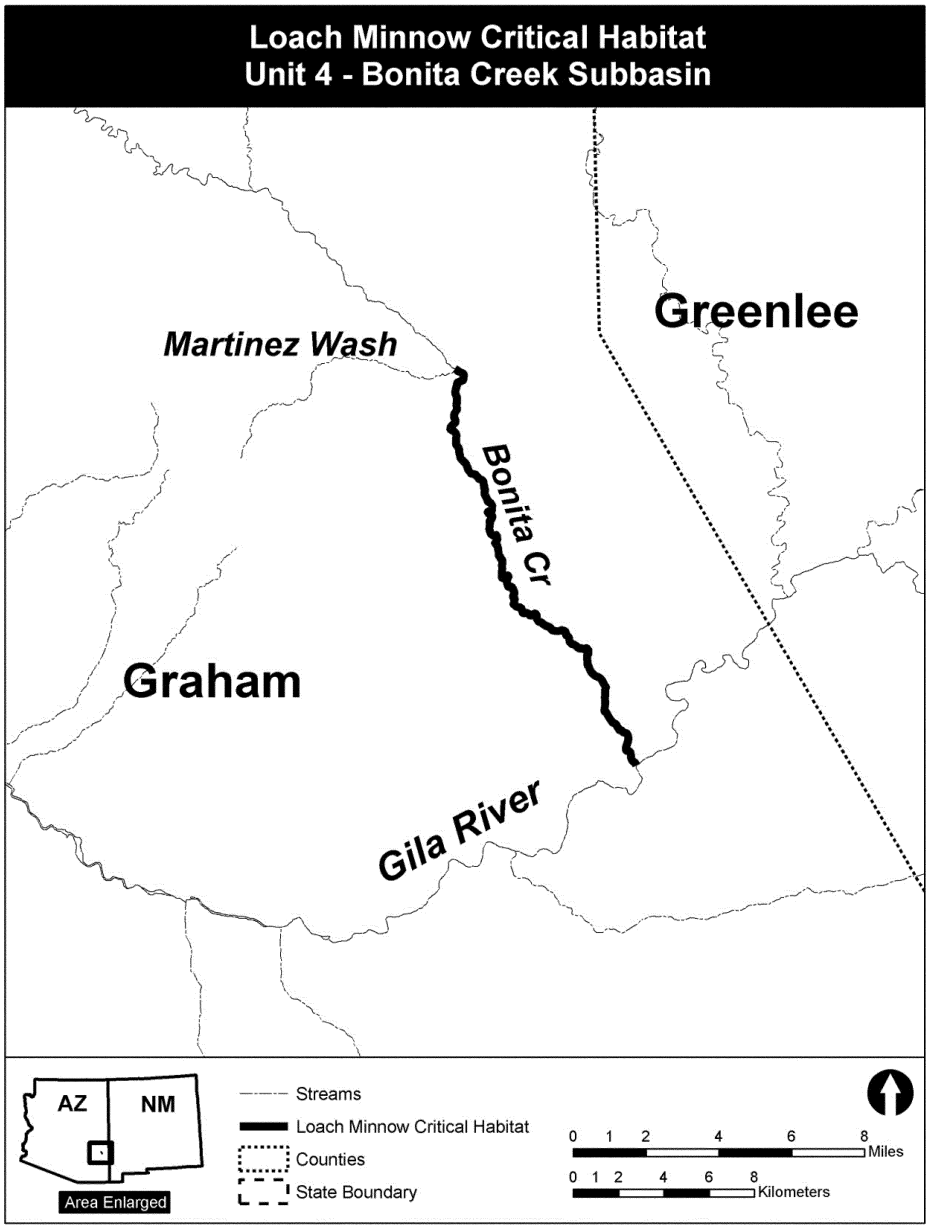
(vii) Map of Unit 3, San Pedro River Subbasin follows.



(9) Unit 4: Bonita Creek Subbasin, Graham County, Arizona.

(i) Bonita Creek for approximately 23.8 km (14.8 mi) from the confluence with the Gila River in Township 6 South, Range 28 East, southeast quarter of section 21 upstream to the confluence with Martinez Wash in Township 4 South, Range 27 East, southeast quarter of section 27.

(ii) Map of Unit 4, Bonita Creek Subbasin follows.



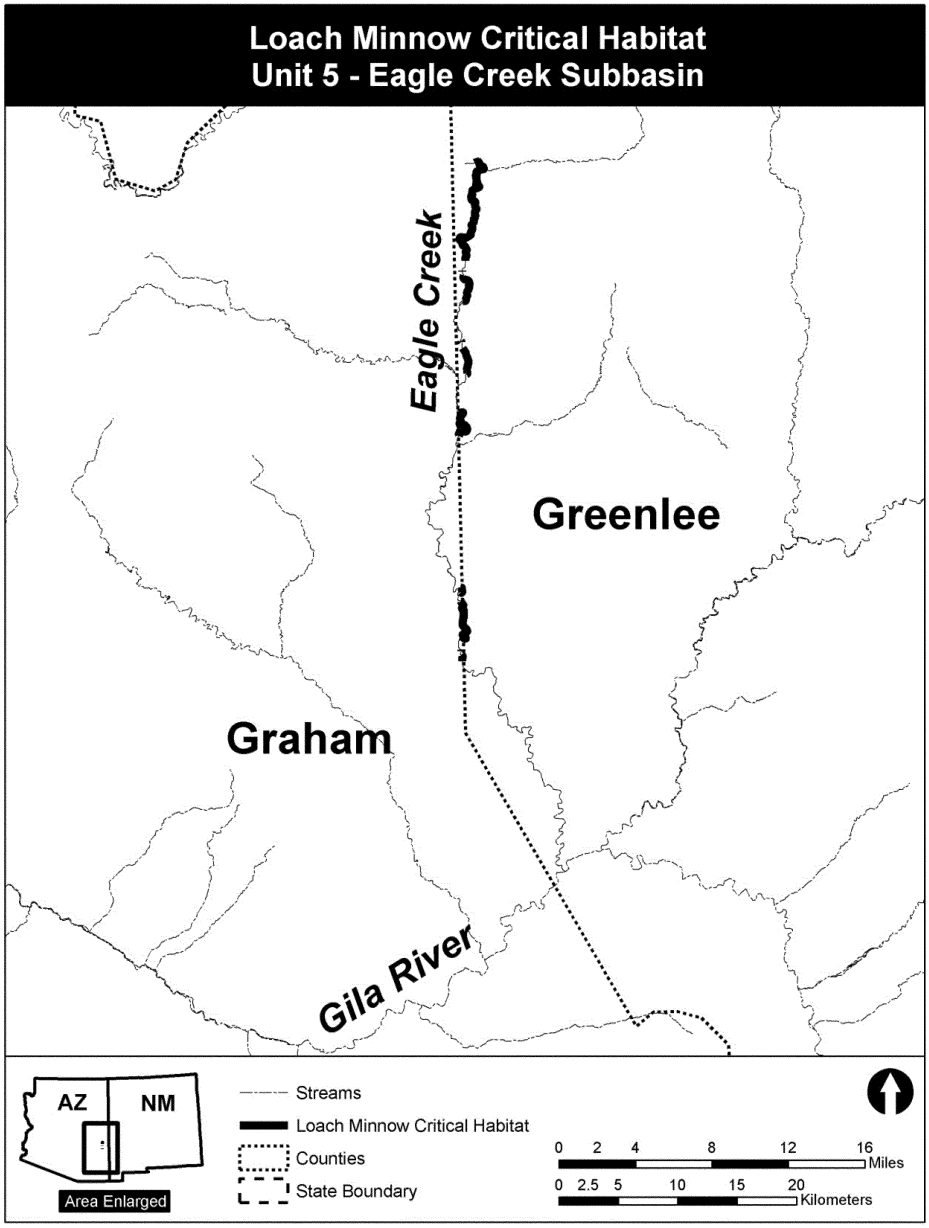
(10) Unit 5: Eagle Creek Subbasin, Graham and Greenlee Counties, Arizona.

(i) Eagle Creek for approximately 26.5 km (16.5 mi) from the Freeport-McMoRan diversion dam at Township 4 South, Range 28 East, southwest quarter of the northwest quarter of section 23 upstream to the confluence of East Eagle Creek in Township 2 North, Range 28 East, southwest quarter of section 20.

This mileage does not include approximately 21.4 km (13.3 mi) of Eagle Creek on

lands belonging to Freeport-McMoRan, which is excluded from this designation.

(ii) Map of Unit 5, Eagle Creek Subbasin follows.



(11) Unit 6: San Francisco River Subbasin, Greenlee County, Arizona and Catron County, New Mexico.

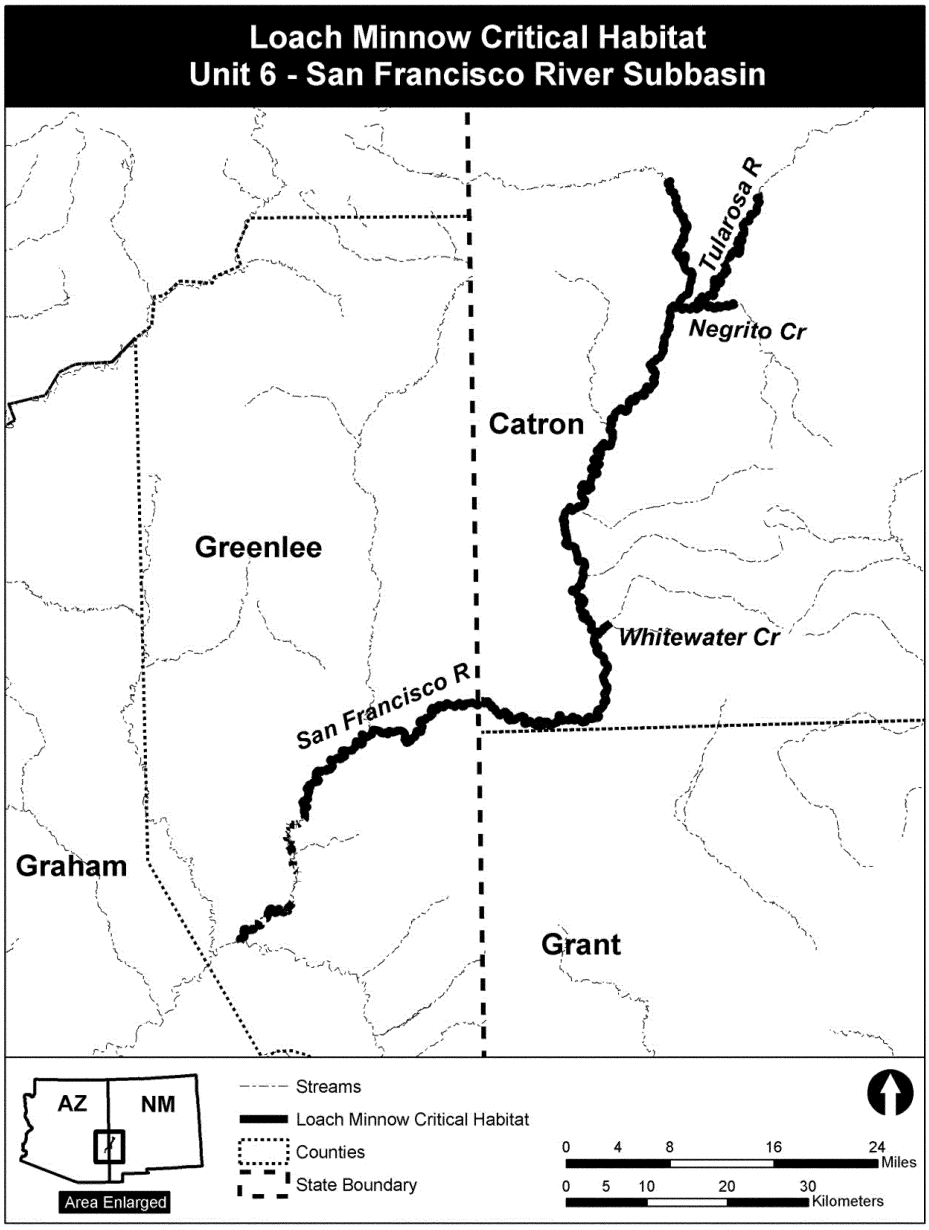
(i) San Francisco River for approximately 189.5 km (117.7 mi) of the San Francisco River extending from the confluence with the Gila River in Township 5 South, Range 29 East, southeast quarter of section 21 upstream to the northern boundary of Township 6 South, Range 19 West, section 2. This mileage includes approximately 14.1 km (8.8 mi) of the San Francisco River on lands belonging to Freeport-McMoRan, which is excluded from this designation.

(ii) Tularosa River for approximately 30.0 km (18.6 mi) from the confluence with the San Francisco River at Township 7 South, Range 19 West, southwest quarter of section 23 upstream to the town of Cruzville at Township 6 South, Range 18 West, southern boundary of section 1.

(iii) Negrito Creek for approximately 6.8 km (4.2 mi) extending from the confluence with the Tularosa River at Township 7 South, Range 18 West, southwest quarter of the northwest quarter of section 19 upstream to the confluence with Cerco Canyon at Township 7 South, Range 18 West, west boundary of section 22.

(iv) Whitewater Creek for approximately 1.9 km (1.2 mi) from the confluence with the San Francisco River at Township 11 South, Range 20 West, Section 27 upstream to the confluence with Little Whitewater Creek at Township 11 South, Range 20 West, southeast quarter of section 23.

(v) Map of Unit 6, San Francisco River Subbasin follows.



(12) Unit 7: Blue River Subbasin, Greenlee County, Arizona, and Catron County, New Mexico.

(i) Blue River for approximately 81.4 km (50.6 mi) from the confluence with the San Francisco River at Township 2 South, Range 31 East, southeast quarter of section 31 upstream to the confluence of Campbell Blue and Dry Blue creeks at Township 7 South, Range 21 West, southeast quarter of section 6.

(ii) Campbell Blue Creek for approximately 12.4 km (7.7 mi) from the confluence of Dry Blue and Campbell Blue Creeks at Township 7 South, Range 21 West, southeast quarter of section 6 to the confluence with Coleman Canyon in Township 4.5 North, Range 31 East, southwest quarter of the northeast quarter of section 32.

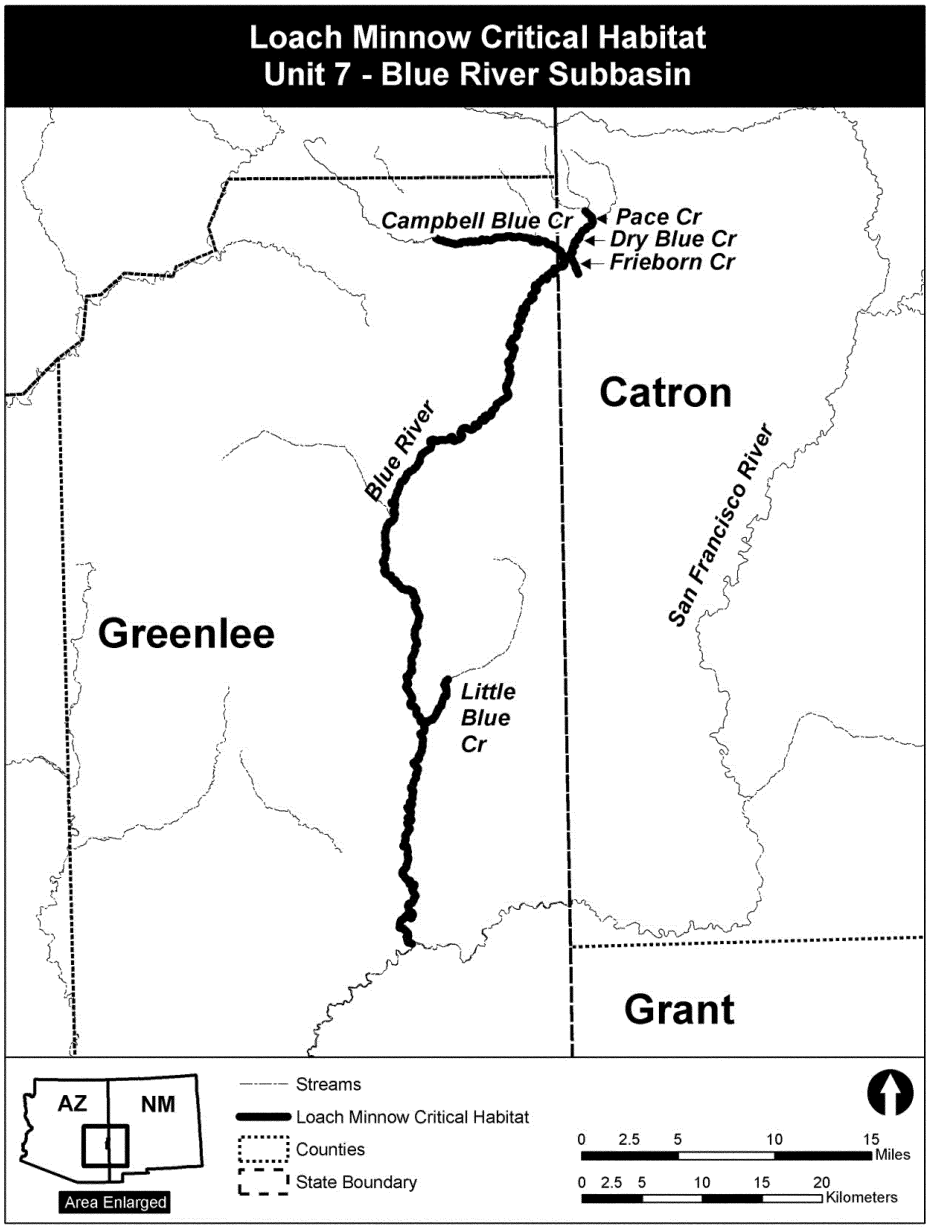
(iii) Little Blue Creek for approximately 5.1 km (3.1 mi) from the confluence with the Blue River at Township 1 South, Range 31 East, center of section 5 upstream to the mouth of a canyon at Township 1 North, Range 31 East, northeast quarter of section 29.

(iv) Pace Creek for approximately 1.2 km (0.8 mi) from the confluence with Dry Blue Creek at Township 6 South, Range 21 West, southwest quarter of section 28 upstream to a barrier falls at Township 6 South, Range 21 West, northeast quarter of section 29.

(v) Frieborn Creek for approximately 1.8 km (1.1 mi) from the confluence with Dry Blue Creek at Township 7 South, Range 21 West, southwest quarter of the northwest quarter of section 5 upstream to an unnamed tributary flowing from the south in Township 7 South, Range 21 West, northeast quarter of the southwest quarter of section 8.

(vi) Dry Blue Creek for approximately 4.7 km (3.0 mi) from the confluence with Campbell Blue Creek at Township 7 South, Range 21 West, southeast quarter of Section 6 upstream to the confluence with Pace Creek in Township 6 South, Range 21 West, southwest quarter of section 28.

(vii) Map of Unit 7, Blue River Subbasin follows.



(13) Unit 8: Gila River Subbasin, Catron, Grant, and Hidalgo Counties, New Mexico.

(i) Gila River for approximately 153.5 km (95.4 mi) from the confluence with Moore Canyon at Township 18 South, Range 21 West, southeast quarter of the southwest quarter of section 32 upstream to the confluence of the East and West Forks of the Gila River at Township 13 South, Range 13 West, center of section 8. This mileage does not include approximately 11.5 km (7.2 mi) of the Gila River on lands owned by Freeport-

McMoRan, which is excluded from this designation.

(ii) West Fork Gila River for approximately 13.0 km (8.1 mi) from the confluence with the East Fork Gila River at Township 13 South, Range 13 West, center of Section 8 upstream to the confluence with EE Canyon at Township 12 South, Range 14 West, east boundary of Section 21.

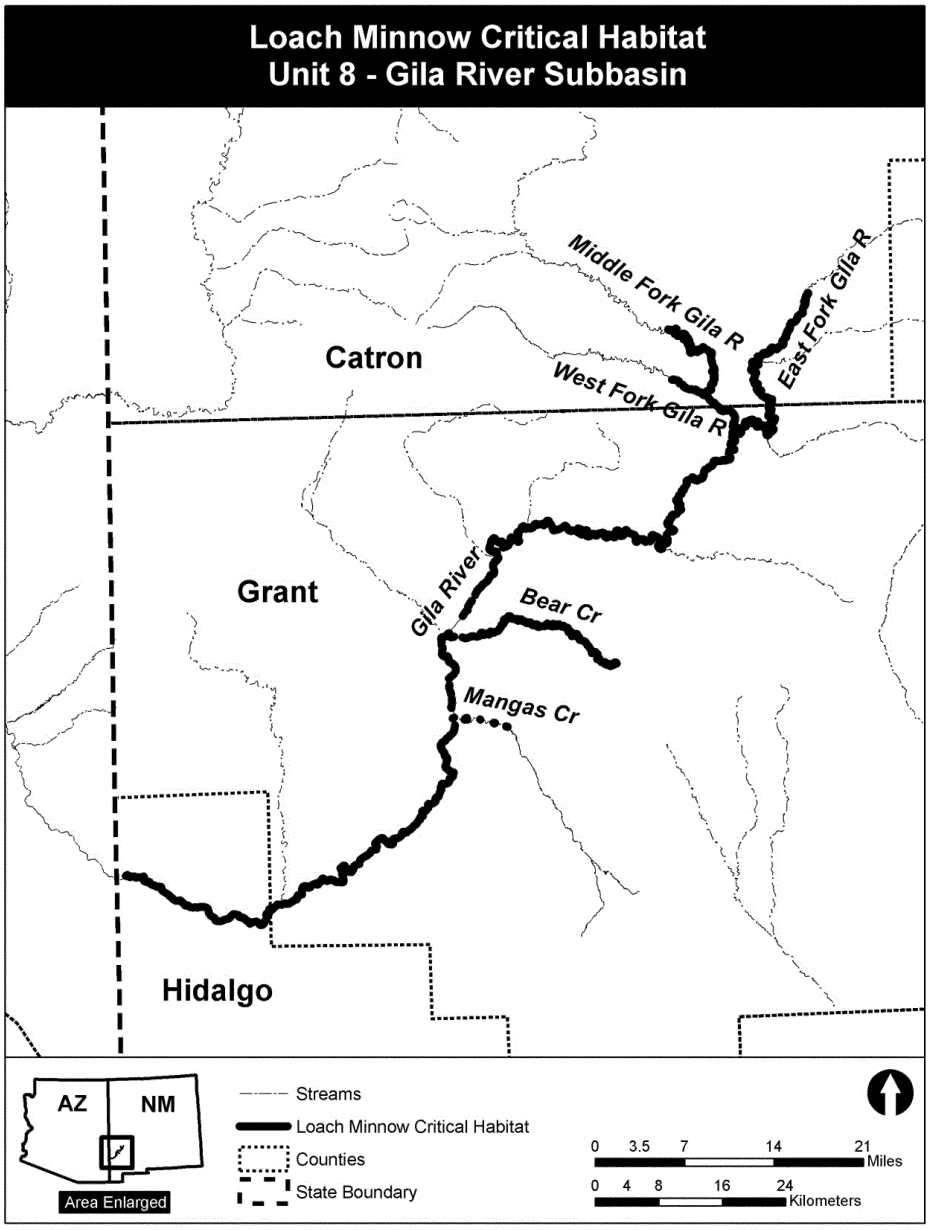
(iii) Middle Fork Gila River for approximately 19.1 km (11.9 mi) of the Middle Fork Gila River extending from the confluence with West Fork Gila River at Township 12 South, Range 14 West, southwest quarter of section 25 upstream to the confluence of Brothers West Canyon in Township 11 South, Range 14 West, northeast quarter of section 33.

(iv) East Fork Gila River for approximately 42.1 km (26.2 mi) extending from the confluence with West Fork Gila River at Township 13 South, Range 13 West, center of section 8 upstream to the confluence of Beaver and Taylor Creeks in Township 11 South, Range 12 West, northeast quarter of section 17.

(v) Mangas Creek for approximately 1.2 km (0.8 mi) extending from Township 17 South, Range 17 West, at the eastern boundary of section 3 upstream to the confluence with Blacksmith Canyon at Township 17 South, Range 17 West, northwest quarter of section 3. This mileage does not include approximately 7.9 km (4.9 mi) of Mangas Creek on lands belonging to Freeport-McMoRan, which are excluded from the designation.

(vi) Bear Creek for approximately 29.5 km (18.4 mi) extending from Township 15 South, Range 17 West, eastern boundary of section 33 upstream to the confluence with Sycamore and North Fork Walnut Creek at Township 16 South, Range 15 West, eastern boundary of section 15. This designation does not include approximately 1.9 km (1.2 mi) of Bear Creek on lands belonging to Freeport-McMoRan, which are excluded from this designation.

(vii) Map of Unit 8, Gila River Subbasin 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. The map provided is for informational purposes only.

(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;

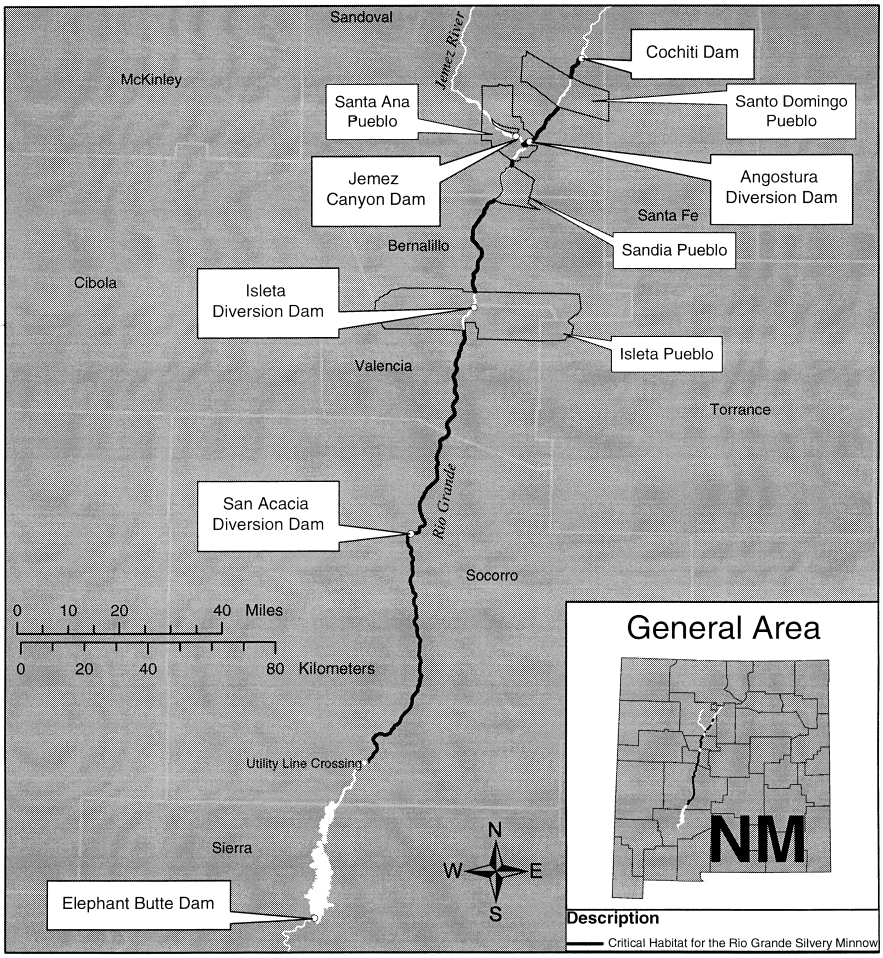
(iii) Angostura Diversion Dam to Isleta Diversion Dam (Angostura Reach)—38 mi (61 km) of river immediately downstream of the Angostura Diversion Dam to the Isleta Diversion Dam;

(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.

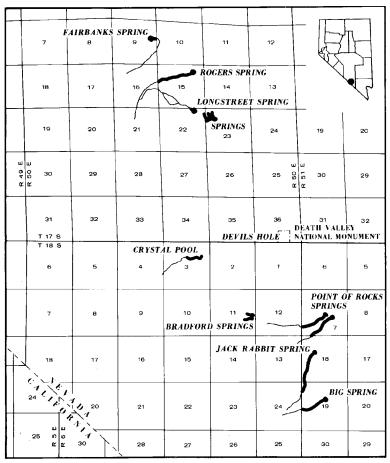
Bradford Springs in Section 11, T18S, R50E, and their outflows for a distance of 300 meters (984 feet) from the springs.

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: The map provided is for informational purposes only. Map follows:

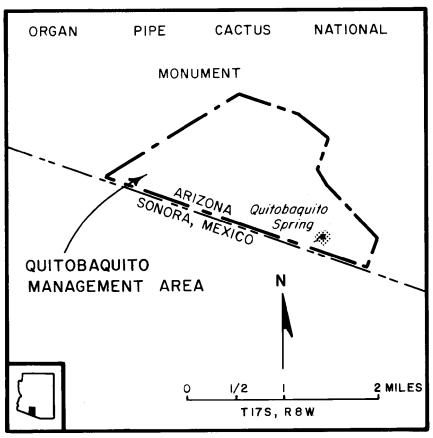


Known constituent elements include warm-water springs and their outflows and surrounding land areas that provide vegetation for cover and habitat for insects and other invertebrates on which this species feeds.

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: The map provided is for informational purposes only. Map follows:



California: Imperial County.

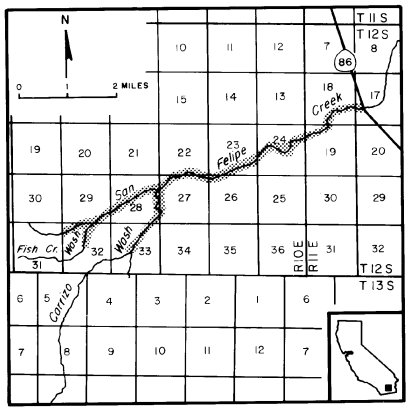
1. *San Felipe Creek*. Approximately 8½ stream miles and 100 feet on either side of San Felipe Creek or the stream channel commencing at the State Highway 86 bridge crossing (approximately ¼ mile south of

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: The map provided is for informational purposes only. Map follows:

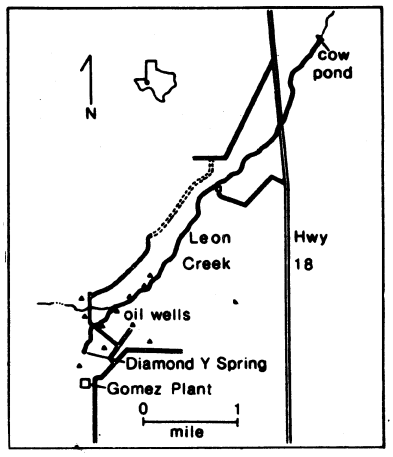


Constituent elements for all four areas designated as critical habitat include clean unpolluted water that is relatively free of exotic organisms, especially exotic fishes, in small slow-moving desert streams and spring pools with marshy backwater areas.

LEON SPRINGS PUPFISH (*Cyprinodon 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: The map provided is for informational purposes only. Map follows:



GROTTO SCULPIN (*Cottus specus*)

Pursuant to section 4(b)(2) of the Act, we have excluded all areas determined to meet the definition of critical habitat under section 3(5)(a) of the Act for the grotto sculpin. Therefore, no specific areas are designated as critical habitat for this species.

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.

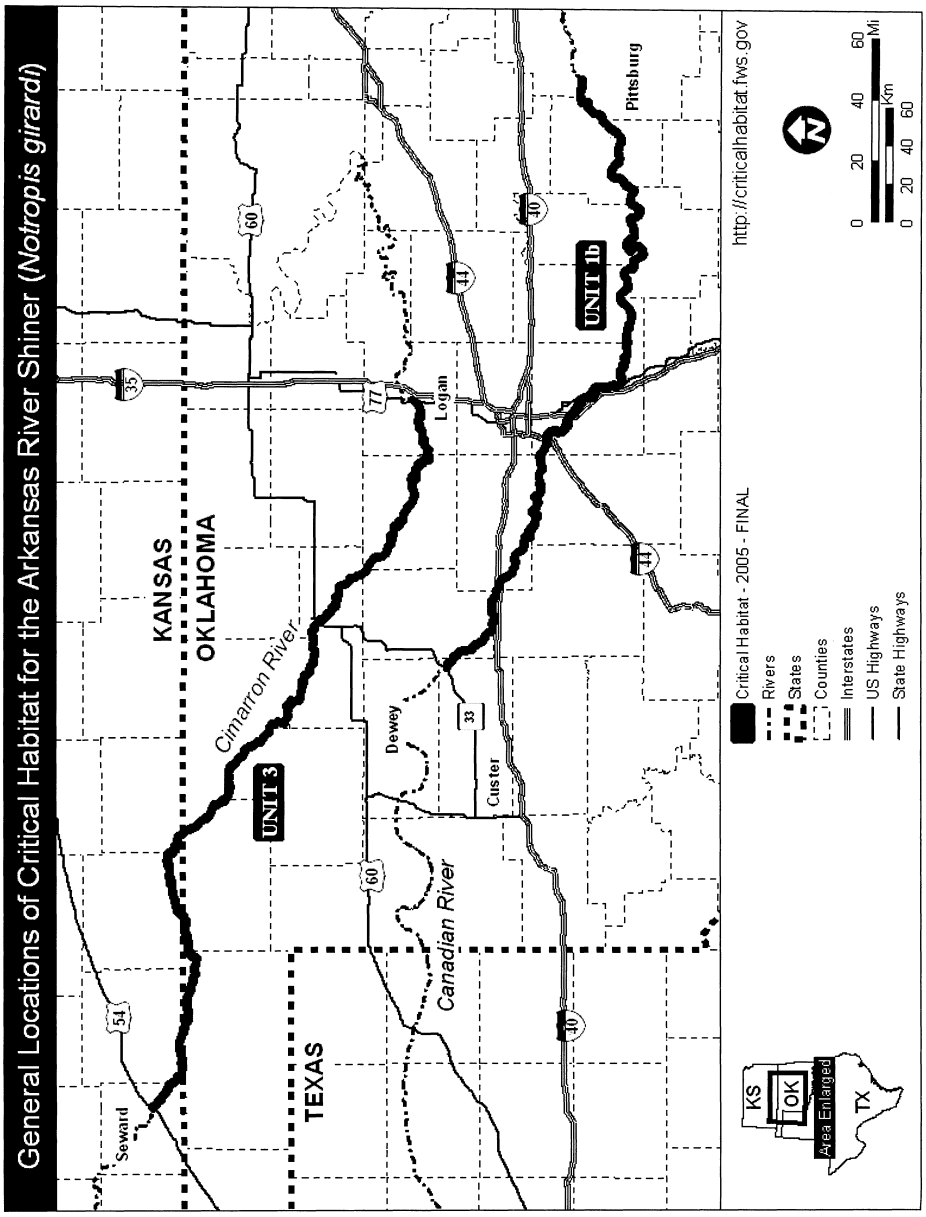
(5) Kansas (Sixth Principal Meridian (SPM)) and Oklahoma (Indian Meridian (IM)): Areas of land and water as follows (physical features were identified using USGS 7.5′ quadrangle maps; river reach distances were derived from digital data obtained from USGS National Atlas data set for river reaches, roads, 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).

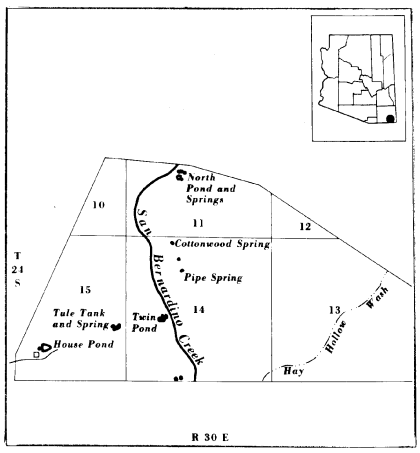
(iii) Map of critical habitat units follows:



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: The map provided is for informational purposes only. Map follows:



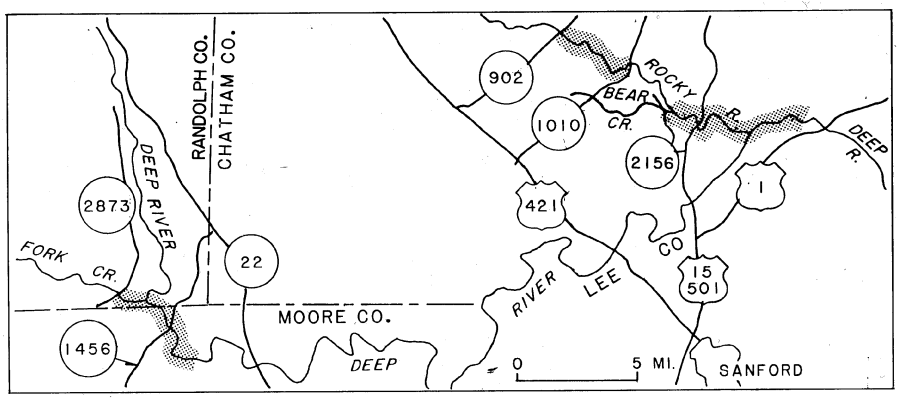
CAPE FEAR SHINER (*Notropis mekistocholas*)

(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.

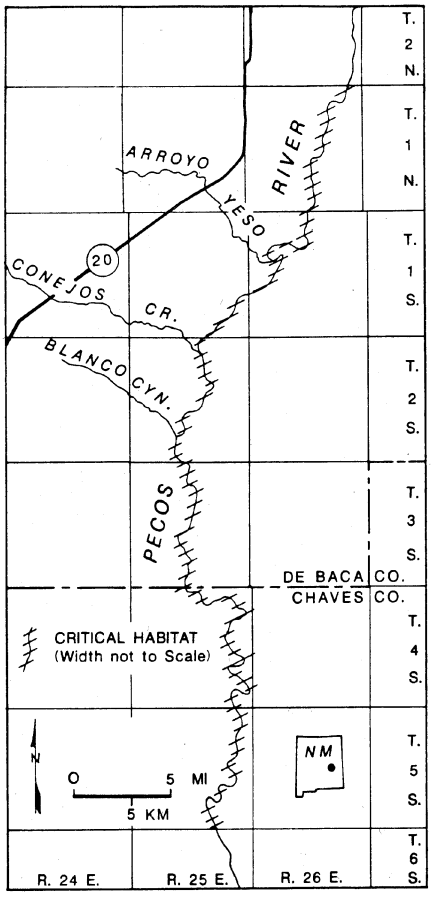
NOTE: The map provided is for informational purposes only. Map follows:



PECOS BLUNTNOSE SHINER (*Notropis simus pecosensis*).

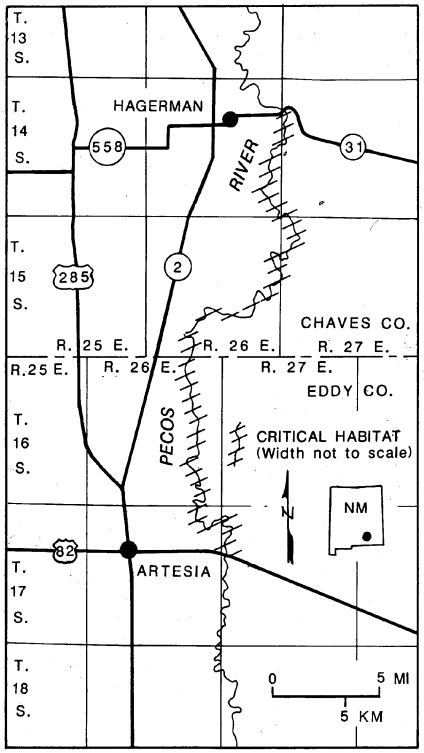
1. New Mexico: De Baca and Chaves Counties. Pecos River from point at the north boundary of NE ¼ Sec. 2; T1N; R26E (approximately 10 mi. (16 km.) south of Fort Sumner) extending downstream approximately 64 mi. (103 km.) to a point at the south boundary SW ¼ Sec. 35; T5S; R25E.

NOTE: The map provided is for informational purposes only. 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: The map provided is for informational purposes only. Map follows:



Constituent elements include clean, permanent water; a main river channel habitat with sandy substrate; and a low velocity flow.

SHARPNOSE SHINER (*Notropis oxyrhynchus*)

(1) Critical habitat units are depicted for Baylor, Crosby, Fisher, Garza, Haskell, Kent, King, Knox, Stonewall, Throckmorton, and Young Counties, Texas, on the maps below.

(2) Critical habitat includes the bankfull width of the river channel within the identified river segments indicated on the maps below, and includes a lateral distance of 30 meters (98 feet) 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 every 1 to 2 years.

(3) Within these areas, the primary constituent elements of the physical or biological features essential to the conservation of the sharpnose shiner consist of a riverine system with habitat to support all life-history stages of the sharpnose shiner, which includes:

(i) Unobstructed, sandy-bottomed river segments greater than 275 kilometers (171 miles) in length.

(ii) Flowing water of greater than 2.61 cubic meters per second (m^3s^{-1}) (92 cubic feet per second (cfs)) averaged over the shiner spawning season (April through September).

(iii) Water of sufficient quality to support survival and reproduction, characterized by:

(A) Temperatures generally less than 39.2 °C (102.6 °F);

(B) Dissolved oxygen concentrations generally greater than 2.66 milligrams per liter (mg/L);

(C) Salinities generally less than 15 parts per thousand (ppt) (25 millisiemens per centimeter (mS/cm)); and

(D) Sufficiently low petroleum and other pollutant concentrations such that mortality does not occur.

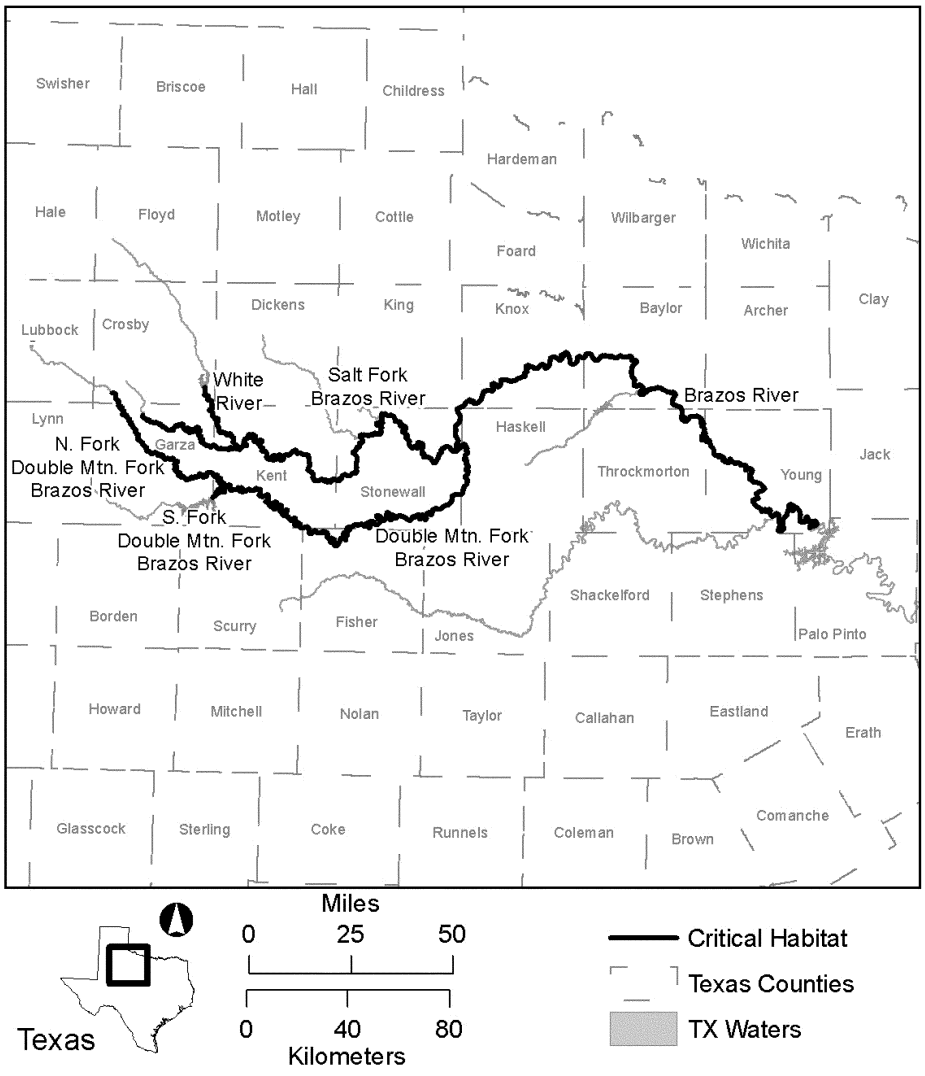
(iv) Native riparian vegetation capable of maintaining river water quality, providing a terrestrial prey base, and maintaining a healthy riparian ecosystem.

(4) Critical habitat does not include manmade structures (such as buildings, railroads, roads, and other paved areas) and the land on which they are located existing within the legal boundaries on September 3, 2014.

(5) *Critical habitat map units.* Data layers defining map units were created using the U.S. Geological Survey National Hydrography Dataset's flowline data in ArcMap (Environmental Systems Research Institute, Inc.), a computer geographic information system program. The 30-meter (98-feet) lateral extent adjacent to each segment's active channel is not displayed in the included figures because it is not appropriate at these map scales. Segments were mapped using the NAD 1983 UTM Zone 14 projection. Endpoints of stream segments for each critical habitat subunit are reported as latitude, longitude in decimal degrees. The maps in this entry, as modified by any accompanying regulatory text, establish the boundaries of the critical habitat designation. The coordinates or plot points or both on which each map is based are available to the public at the Service's Internet site (*http://www.fws.gov/southwest/es/ArlingtonTexas/*), at *http://www.regulations.gov* at Docket No. FWS–R2–ES–2013–0008, and at the Arlington, Texas, Ecological Services Field Office. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2.

(6) Index map of critical habitat for the sharpnose shiner and smalleye shiner follows:

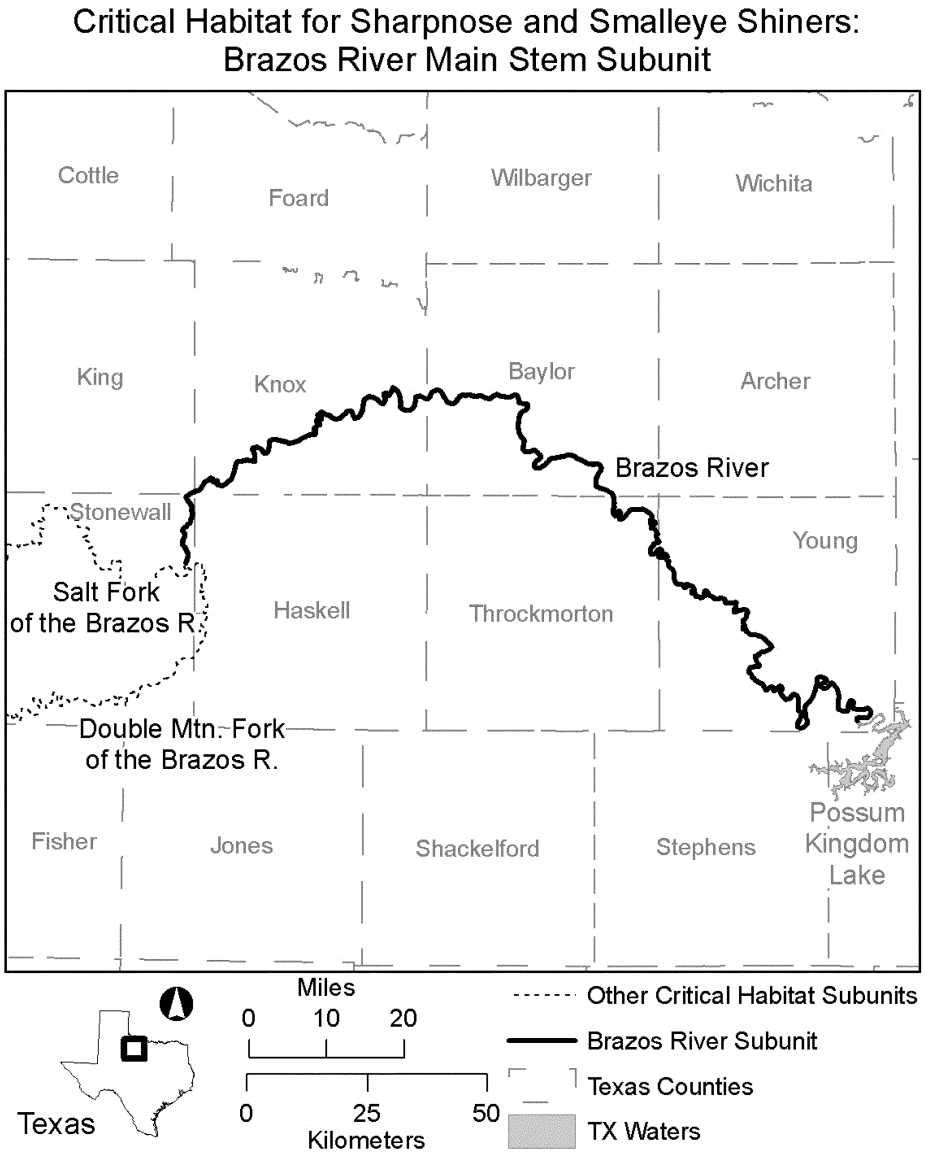
Index Map: Critical Habitat for the Sharpnose Shiner and Smalleye Shiner



(7) Subunit 1: Brazos River Main Stem; Baylor, King, Knox, Stonewall, Throckmorton, and Young Counties, Texas.

(i) Brazos River Main Stem from approximately 15 river km (9.3 miles) upstream of the eastern border of Young County where it intersects the upper portion of Possum Kingdom Lake (32.974302, −98.509880) upstream to the confluence of the Double Mountain Fork of the Brazos River and the Salt Fork of the Brazos River where they form the Brazos River main stem (33.268404, −100.010209)

(ii) Map of Subunit 1, Brazos River Main Stem, follows:

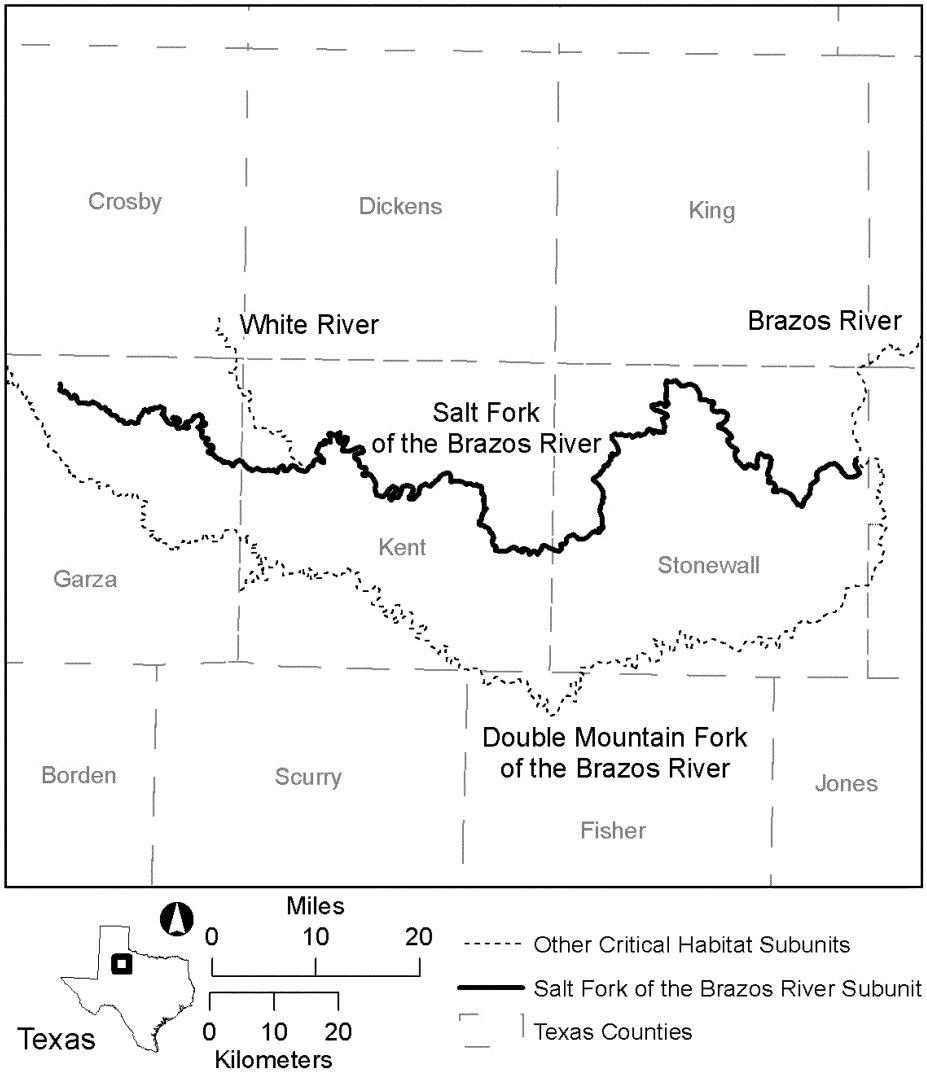


(8) Subunit 2: Salt Fork of the Brazos River; Garza, Kent, and Stonewall Counties, Texas.

(i) Salt Fork of the Brazos River from its confluence with the Double Mountain Fork of the Brazos River (33.268404, −100.010209) upstream to the McDonald Road crossing (33.356258, −101.345890).

(ii) Map of Subunit 2, Salt Fork of the Brazos River, follows:

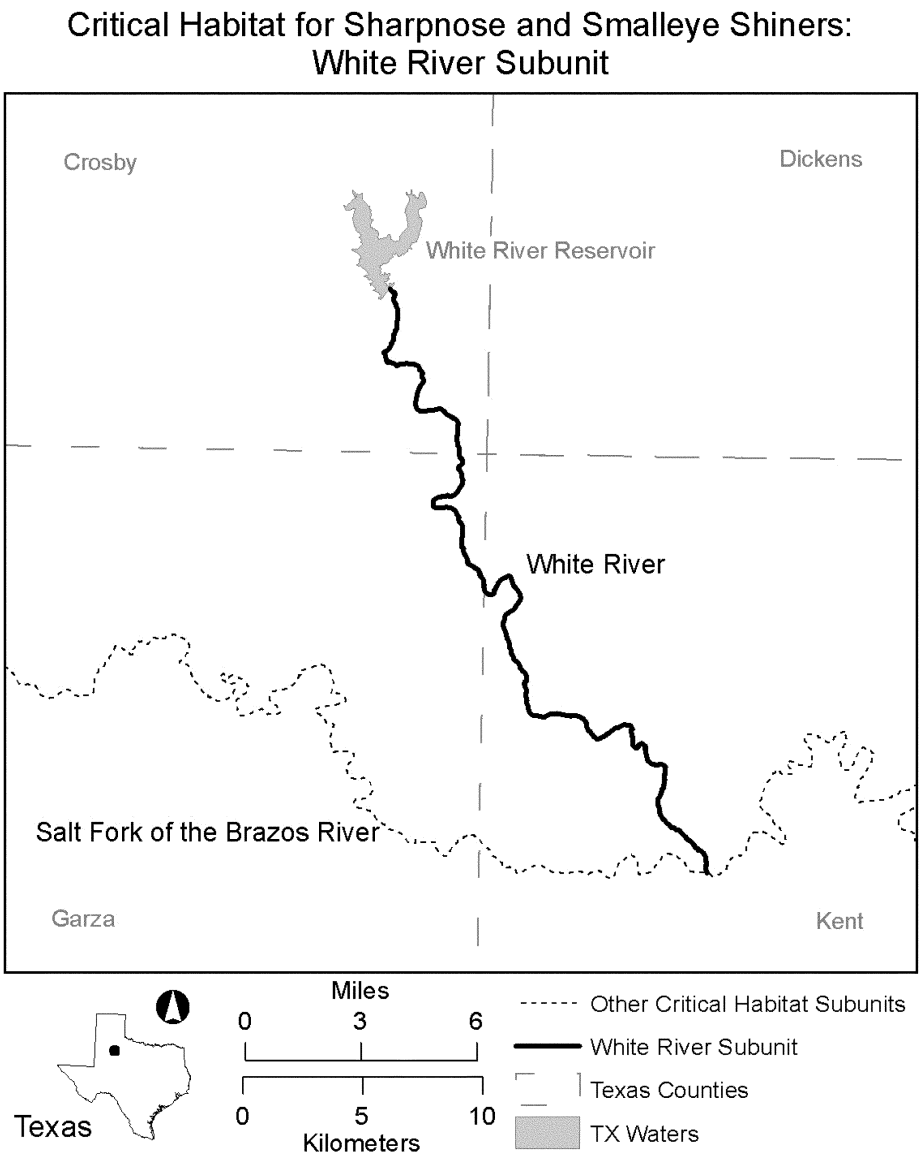
Critical Habitat for Sharpnose and Smalleye Shiners:
Salt Fork of the Brazos River Subunit



(9) Subunit 3: White River; Crosby, Garza, and Kent Counties, Texas.

(i) White River from its confluence with the Salt Fork of the Brazos River (33.241172, −100.936181) upstream to the White River Lake impoundment (33.457240, −101.084546).

(ii) Map of Subunit 3, White River, follows:

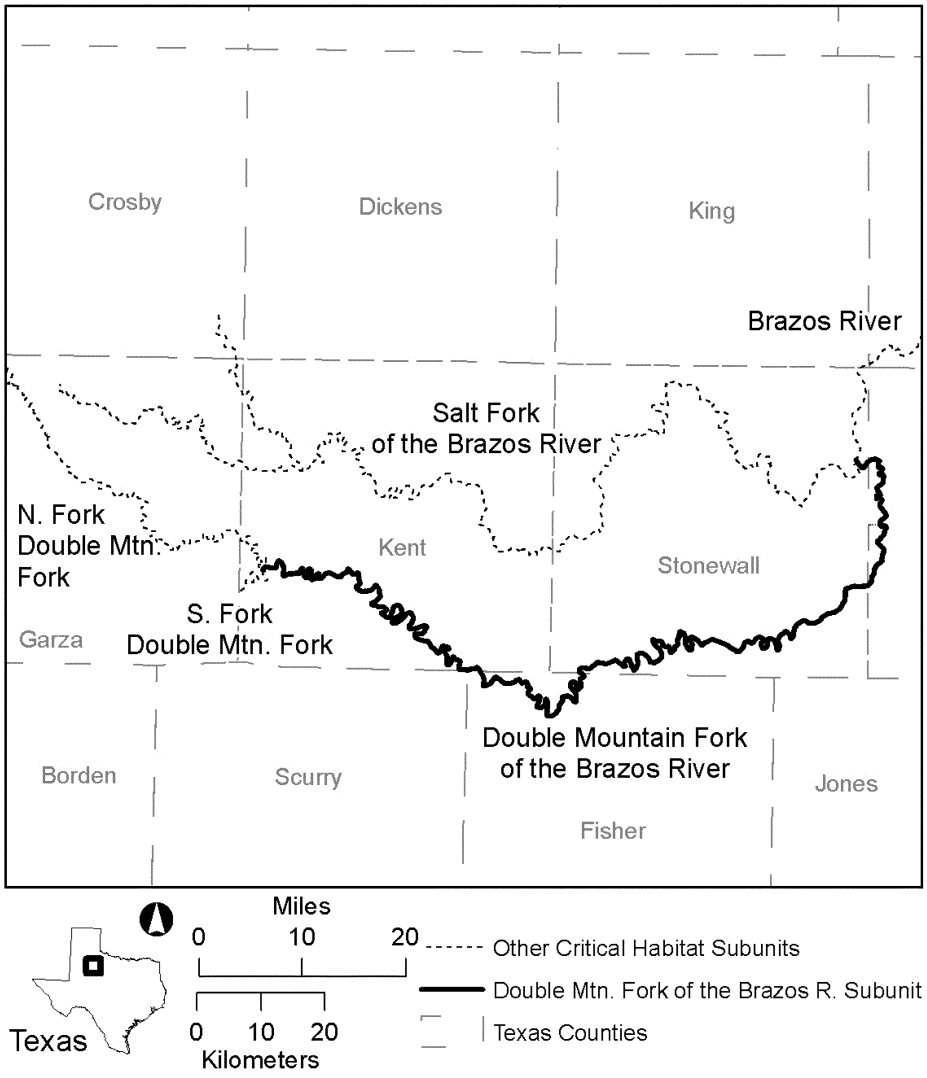


(10) Subunit 4: Double Mountain Fork of the Brazos River; Fisher, Haskell, Kent, and Stonewall Counties, Texas.

(i) Double Mountain Fork of the Brazos River from its confluence with the Salt Fork of the Brazos River (33.268404, −100.010209) upstream to the confluence of the South Fork Double Mountain Fork of the Brazos River and the North Fork Double Mountain Fork of the Brazos River where they form the Double Mountain Fork of the Brazos River (33.100269, −100.999803).

(ii) Map of Subunit 4, Double Mountain Fork of the Brazos River, follows:

Critical Habitat for Sharpnose and Smalleye Shiners:
Double Mountain Fork of the Brazos River Subunit

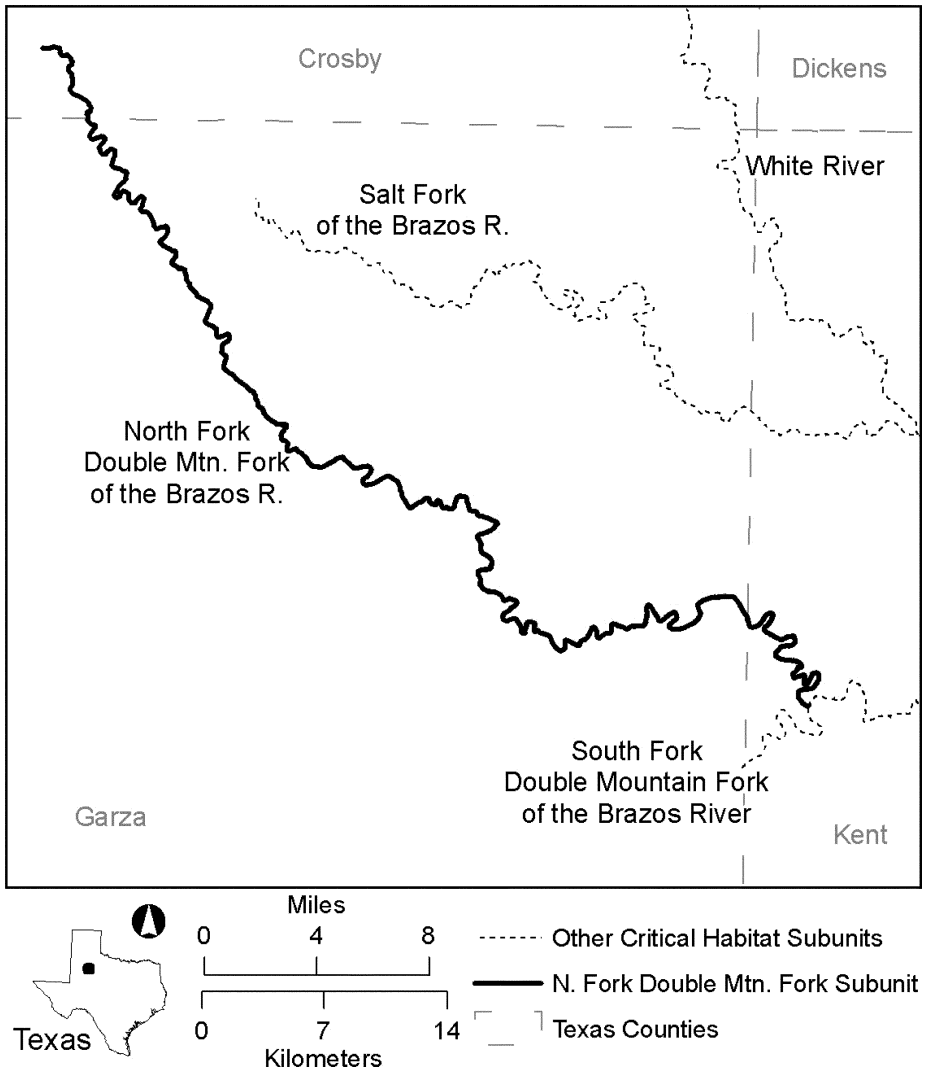


(11) Subunit 5: North Fork Double Mountain Fork of the Brazos River; Crosby, Garza, and Kent Counties, Texas.

(i) North Fork Double Mountain Fork of the Brazos River from its confluence with the South Fork Double Mountain Fork of the Brazos River (33.100269, −100.999803) upstream to the earthen impoundment near Janes-Prentice Lake (33.431515, −101.479610).

(ii) Map of Subunit 5, North Fork Double Mountain Fork of the Brazos River, follows:

Critical Habitat for Sharpnose and Smalleye Shiners: North Fork Double Mountain Fork of the Brazos River Subunit

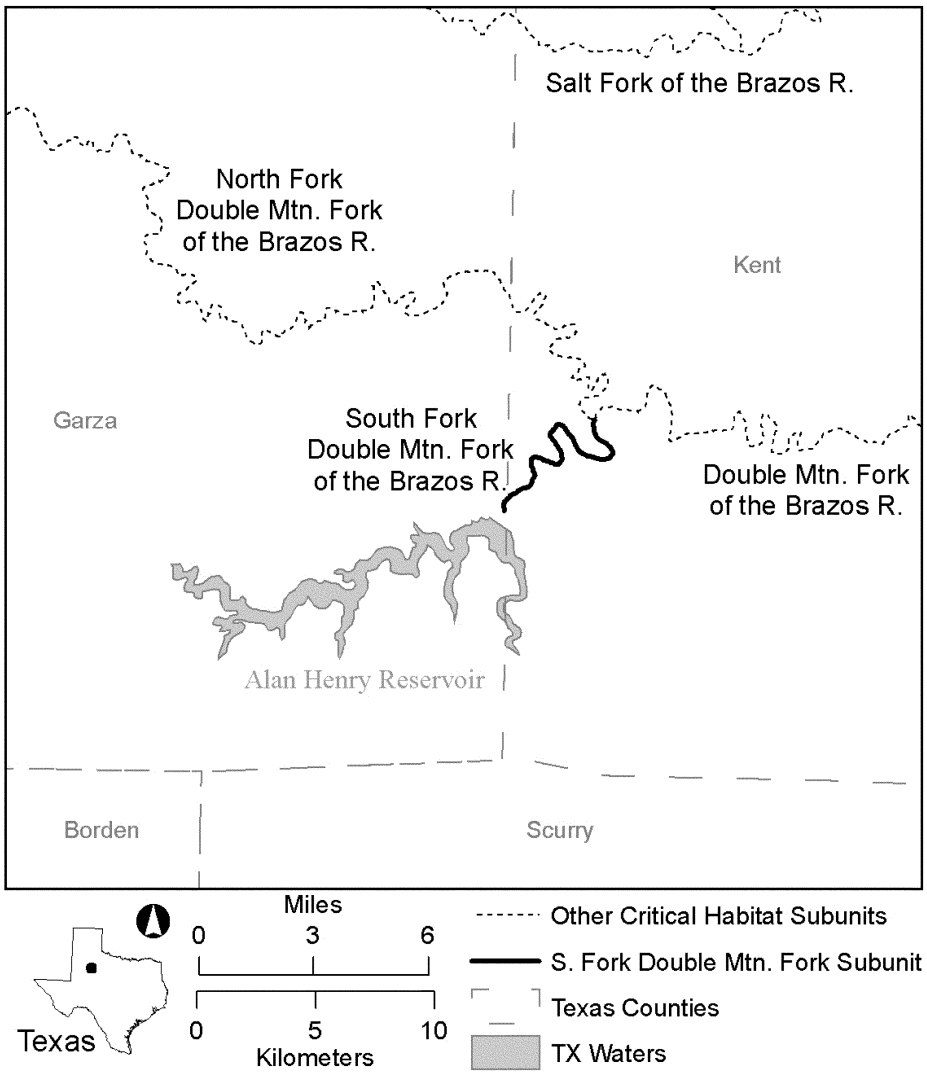


(12) Subunit 6: South Fork Double Mountain Fork of the Brazos River; Garza and Kent Counties, Texas.

(i) South Fork Double Mountain Fork of the Brazos River from its confluence with the North Fork Double Mountain Fork of the Brazos River (33.100269, −100.999803) upstream to the John T. Montford Dam of Lake Alan Henry (33.065008, −101.039780).

(ii) Map of Subunit 6, South Fork Double Mountain Fork of the Brazos River, follows:

Critical Habitat for Sharpnose and Smalleye Shiners: South Fork Double Mountain Fork of the Brazos River Subunit



SMALLEYE SHINER (*Notropis buccula*)

(1) Critical habitat units are depicted for Baylor, Crosby, Fisher, Garza, Haskell, Kent, King, Knox, Stonewall, Throckmorton, and Young Counties, Texas, on the maps.

(2) Critical habitat includes the bankfull width of the river channel within the identified river segments indicated on the maps, and includes a lateral distance of 30 meters (98 feet) 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 every 1 to 2 years.

(3) Within these areas, the primary constituent elements of the physical or biological features essential to the conservation of

the smalleye shiner consist of a riverine system with habitat to support all life-history stages of the smalleye shiner, which includes:

(i) Unobstructed, sandy-bottomed river segments greater than 275 kilometers (171 miles) in length.

(ii) Flowing water of greater than 6.43 cubic meters per second (m^3s^{-1}) (227 cubic feet per second (cfs)) averaged over the shiner spawning season (April through September).

(iii) Water of sufficient quality to support survival and reproduction, characterized by:

(A) Temperatures generally less than 40.6 °C (105.1 °F);

(B) Dissolved oxygen concentrations generally greater than 2.11 milligrams per liter (mg/L);

(C) Salinities generally less than 18 parts per thousand (ppt) (30 millisiemens per centimeter (mS/cm)); and

(D) Sufficiently low petroleum and other pollutant concentrations such that mortality does not occur.

(iv) Native riparian vegetation capable of maintaining river water quality, providing a terrestrial prey base, and maintaining a healthy riparian ecosystem.

(4) Critical habitat does not include manmade structures (such as buildings, railroads, 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.

(5) *Critical habitat map units.* Data layers defining map units were created using the USGS National Hydrography Dataset's flowline data in ArcMap (Environmental Systems Research Institute, Inc.), a computer geographic information system program. The 30-m (98-ft) lateral extent adjacent to each segment's active channel is not displayed in the figures because it is not appropriate at these map scales. Segments were mapped using the NAD 1983 UTM Zone 14 projection. Endpoints of stream segments for each critical habitat subunit are reported as latitude, longitude in decimal degrees. The maps, as modified by any accompanying regulatory text, establish the boundaries of the critical habitat designation. The coordinates or plot points or both on which each map is based are available to the public at the Service's Internet site (*http://www.fws.gov/southwest/es/ArlingtonTexas/*), at *http://www.regulations.gov* at Docket No. FWS–R2–ES–2013–0008, and at the Arlington, Texas, Ecological Services Field Office. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2.

(6) Index map of critical habitat units for the smalleye shiner is provided at paragraph (6) of the entry for the sharpnose shiner in this paragraph (e).

(7) Subunit 1: Brazos River Main Stem from approximately 15 river km (9.3 miles) upstream of the eastern border of Young County where it intersects the upper portion of Possum Kingdom Lake (32.974302, −98.509880) upstream to the confluence of the Double Mountain Fork of the Brazos River and the Salt Fork of the Brazos River where they form the Brazos River main stem (33.268404, −100.010209); Baylor, King, Knox, Stonewall, Throckmorton, and Young Counties, Texas. Map of Upper Brazos River Main Stem Subunit is provided at paragraph (7) of the entry for the sharpnose shiner in this paragraph (e).

(8) Subunit 2: Salt Fork of the Brazos River from its confluence with the Double Mountain Fork of the Brazos River (33.268404, −100.010209) upstream to the McDonald Road crossing (33.356258, −101.345890); Garza, Kent, and Stonewall Counties, Texas. Map of Salt Fork of the Brazos River Subunit is provided at paragraph (8) of the entry for the sharpnose shiner in this paragraph (e).

(9) Subunit 3: White River from its confluence with the Salt Fork of the Brazos River (33.241172, −100.936181) upstream to the White River Lake impoundment (33.457240, −101.084546); Crosby, Garza, and Kent Counties, Texas. Map of White River Subunit is provided at paragraph (9) of the entry for the sharpnose shiner in this paragraph (e).

(10) Subunit 4: Double Mountain Fork of the Brazos River from its confluence with the Salt Fork of the Brazos River (33.268404, −100.010209) upstream to the confluence of the South Fork Double Mountain Fork of the Brazos River and the North Fork Double Mountain Fork of the Brazos River where they form the Double Mountain Fork of the Brazos River (33.100269, −100.999803); Fisher, Haskell, Kent, and Stonewall Counties, Texas. Map of Double Mountain Fork of the Brazos River Subunit is provided at paragraph (10) of the entry for the sharpnose shiner in this paragraph (e).

(11) Subunit 5: North Fork Double Mountain Fork of the Brazos River from its confluence with the South Fork Double Mountain Fork of the Brazos River (33.100269, −100.999803) upstream to the earthen impoundment near Janes-Prentice Lake (33.431515, −101.479610); Crosby, Garza, and Kent Counties, Texas. Map of North Fork Double Mountain Fork of the Brazos River Subunit is provided at paragraph (11) of the entry for the sharpnose shiner in this paragraph (e).

(12) Subunit 6: South Fork Double Mountain Fork of the Brazos River from its confluence with the North Fork Double Mountain Fork of the Brazos River (33.100269, −100.999803) upstream to the John T. Montford Dam of Lake Alan Henry (33.065008, −101.039780); Garza and Kent Counties, Texas. Map of South Fork Double Mountain Fork of the Brazos River Subunit is provided

at paragraph (12) of the entry for the sharpnose shiner in this paragraph (e).

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.

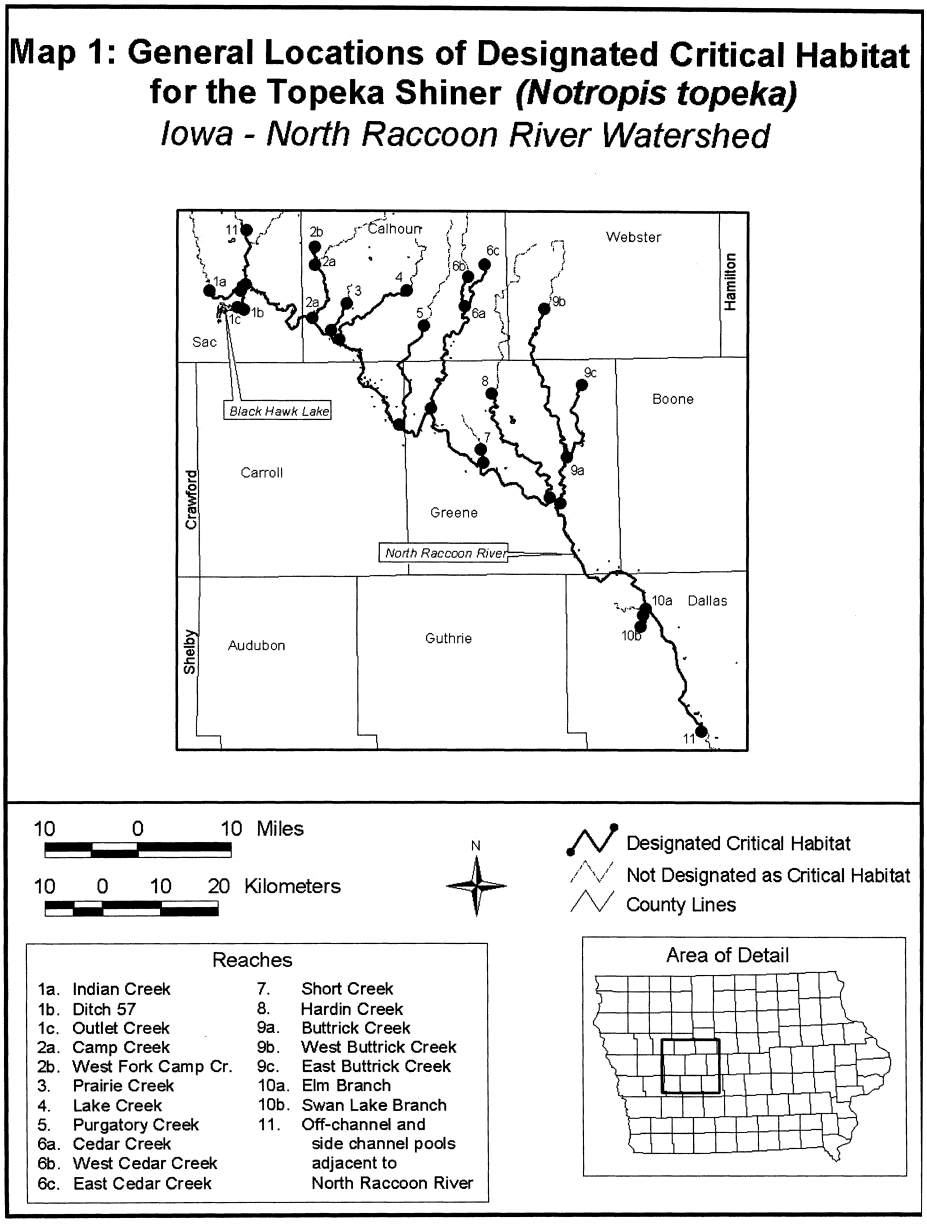
(xvi) Reach 9c. East Buttrick Creek, from its confluence with West Buttrick Creek (T84N, R30W, Sec. 25), upstream through T85N, R29W, Sec. 20.

(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) Unit 1 (Map 1) follows.



(7) Unit 2: Boone River Watershed—Wright and Hamilton Counties, Iowa.

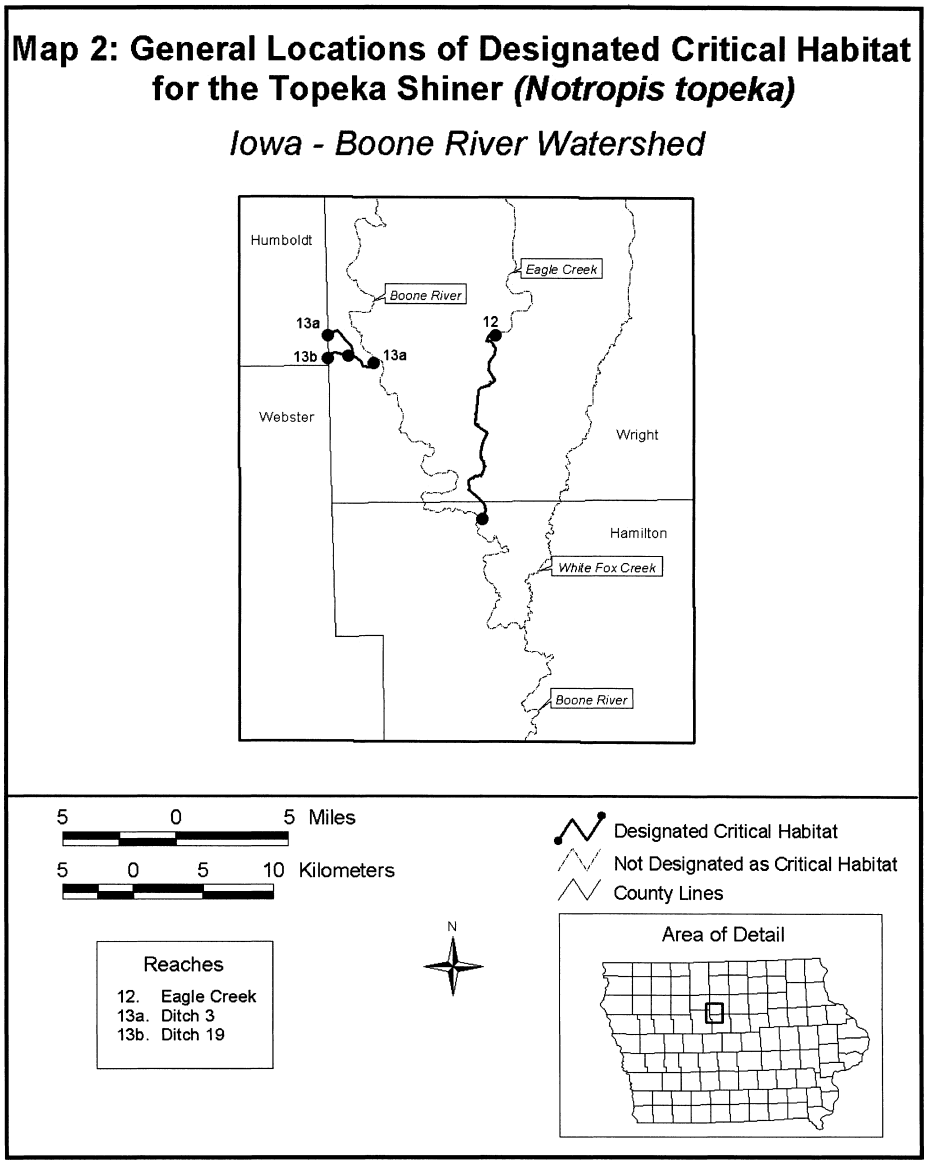
(i) Reach 12. Eagle Creek from its confluence with the Boone River (T89N, R25W, Sec. 6), upstream through T91N, R25W, Sec. 30.

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) 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,

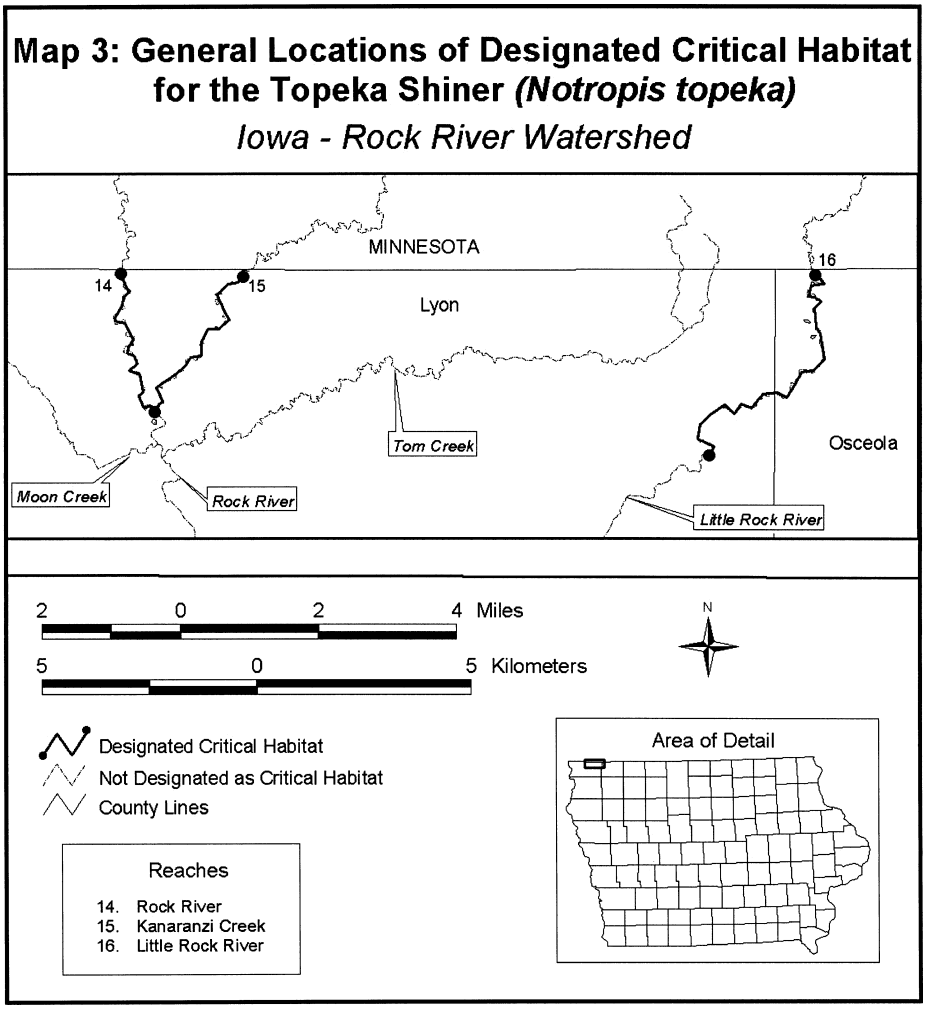
Sec. 28), upstream to the Iowa/Minnesota State border (T100N, R45W, Sec. 8).

(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) 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.

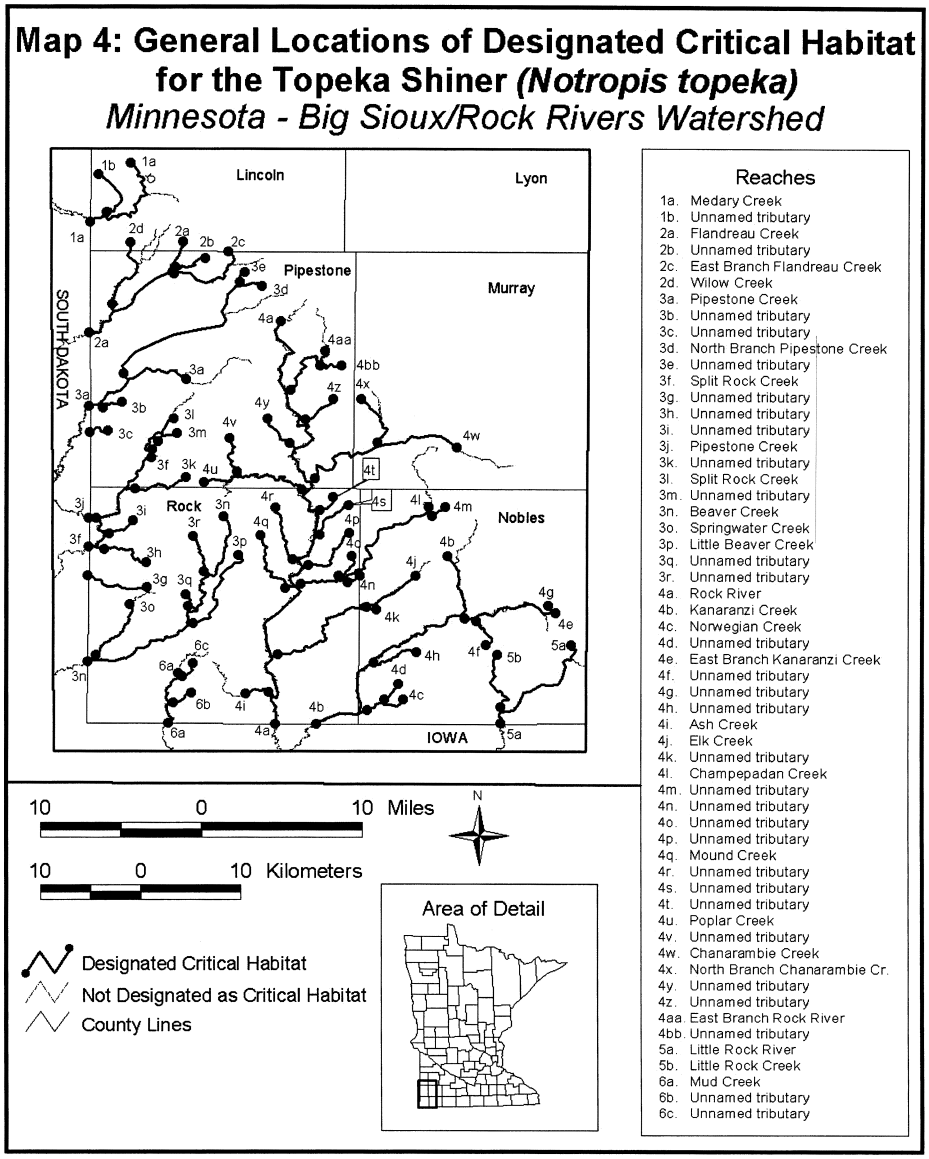
Mud Creek Complex

(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) Unit 4 (Map 4) follows.



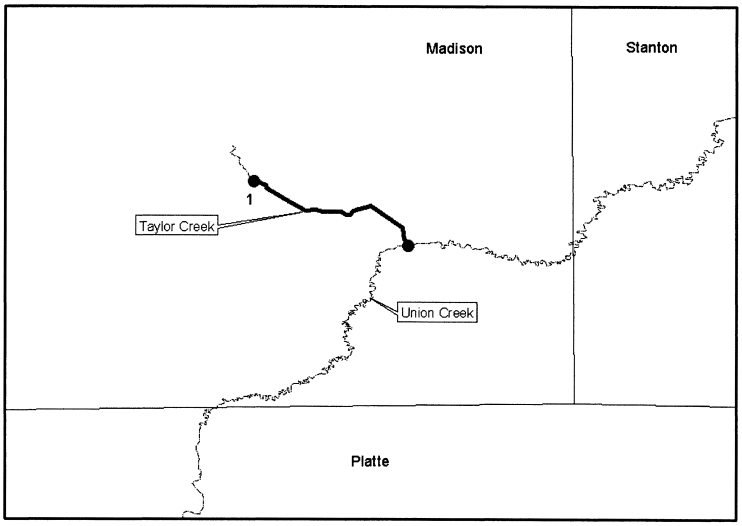
(13) Unit 5: Elkhorn River Watershed—Madison County, Nebraska.

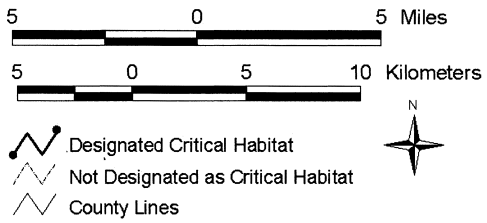
Taylor Creek from its confluence with Union Creek (T22N, R1W, Sec. 32), upstream through T22N, R2W, Sec. 22.

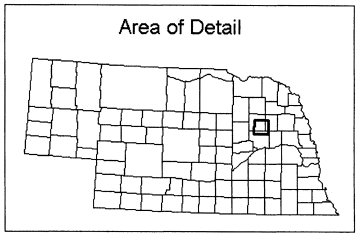
(14) Unit 5 (Map 5) follows.

Map 5: General Locations of Designated Critical Habitat for the Topeka Shiner *(Notropis topeka)*

Nebraska - Elkhorn River Watershed



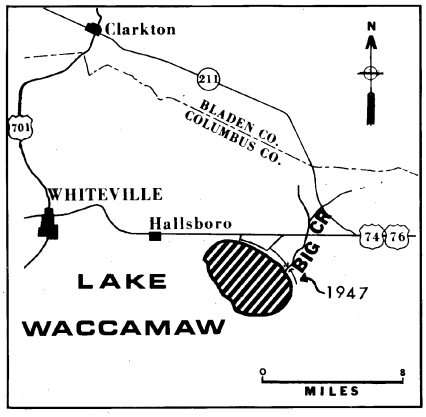




WACCAMAW SILVERSIDE (*Menidia extensa*)

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.

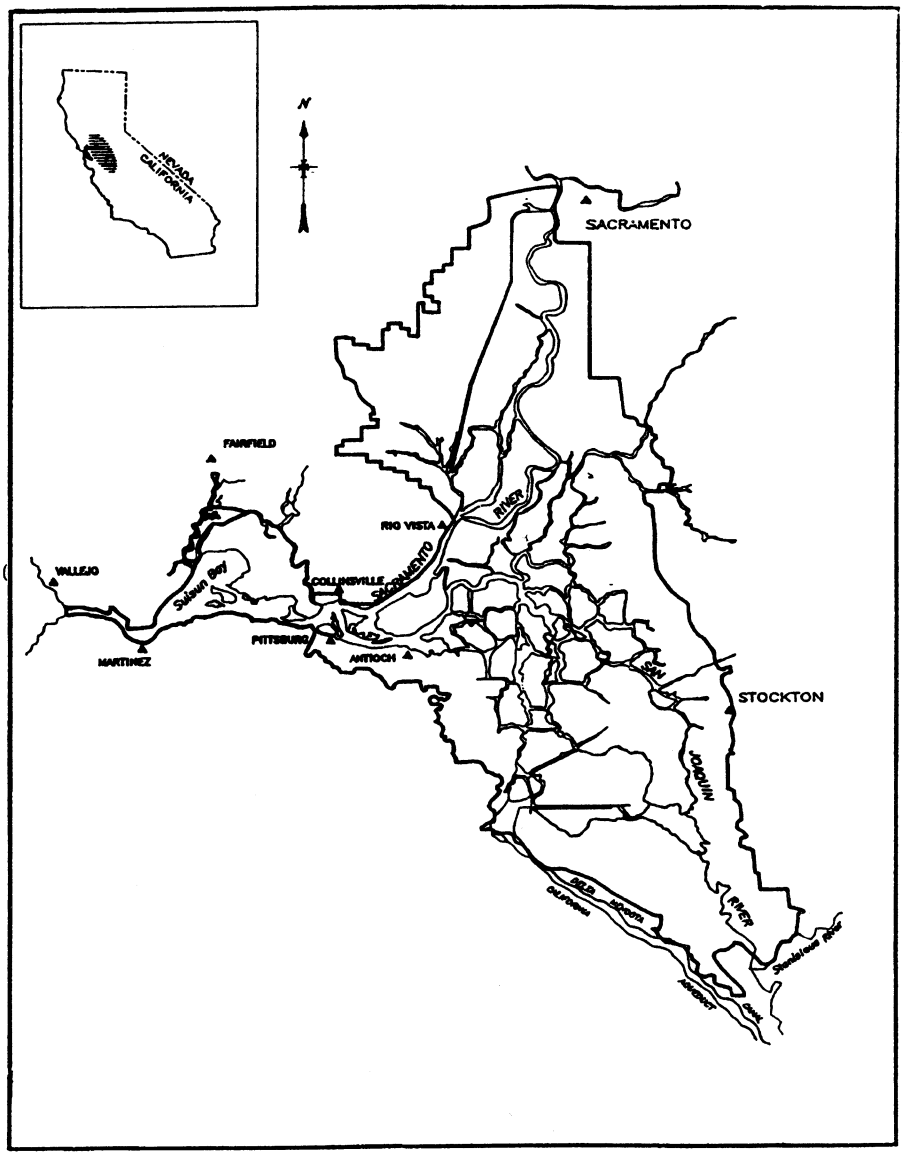


DELTA SMELT (*Hypomesus transpacificus*)

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: The map provided is for informational purposes only. 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 Cochise, Gila, Graham, Greenlee, Pinal, and Yavapai Counties, Arizona, and for Catron, Grant, and Hidalgo Counties, New Mexico, on the maps below. The maps provided are for informational purposes only.

(2) Within these areas, the primary constituent elements (PCE) of the physical or biological features essential to the conservation of spikedace consist of six components:

(i) Habitat to support all egg, larval, juvenile, and adult spikedace. This habitat includes perennial flows with a stream depth generally less than 1 m (3.3 ft), and with slow to swift flow velocities between 5 and 80 cm per second (1.9 and 31.5 in. per second). Appropriate stream microhabitat types include glides, runs, riffles, the margins of pools and eddies, and backwater components over sand, gravel, and cobble substrates with low or moderate amounts of fine sediment and substrate embeddedness. Appropriate habitat will have a low gradient of less than approximately 1.0 percent, at elevations below 2,100 m (6,890 ft). Water temperatures should be in the general range of 8.0 to 28.0 °C (46.4 to 82.4 °F).

(ii) An abundant aquatic insect food base consisting of mayflies, true flies, black flies, caddis flies, stoneflies, and dragonflies.

(iii) Streams with no or no more than low levels of pollutants.

(iv) Perennial flows, or 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.

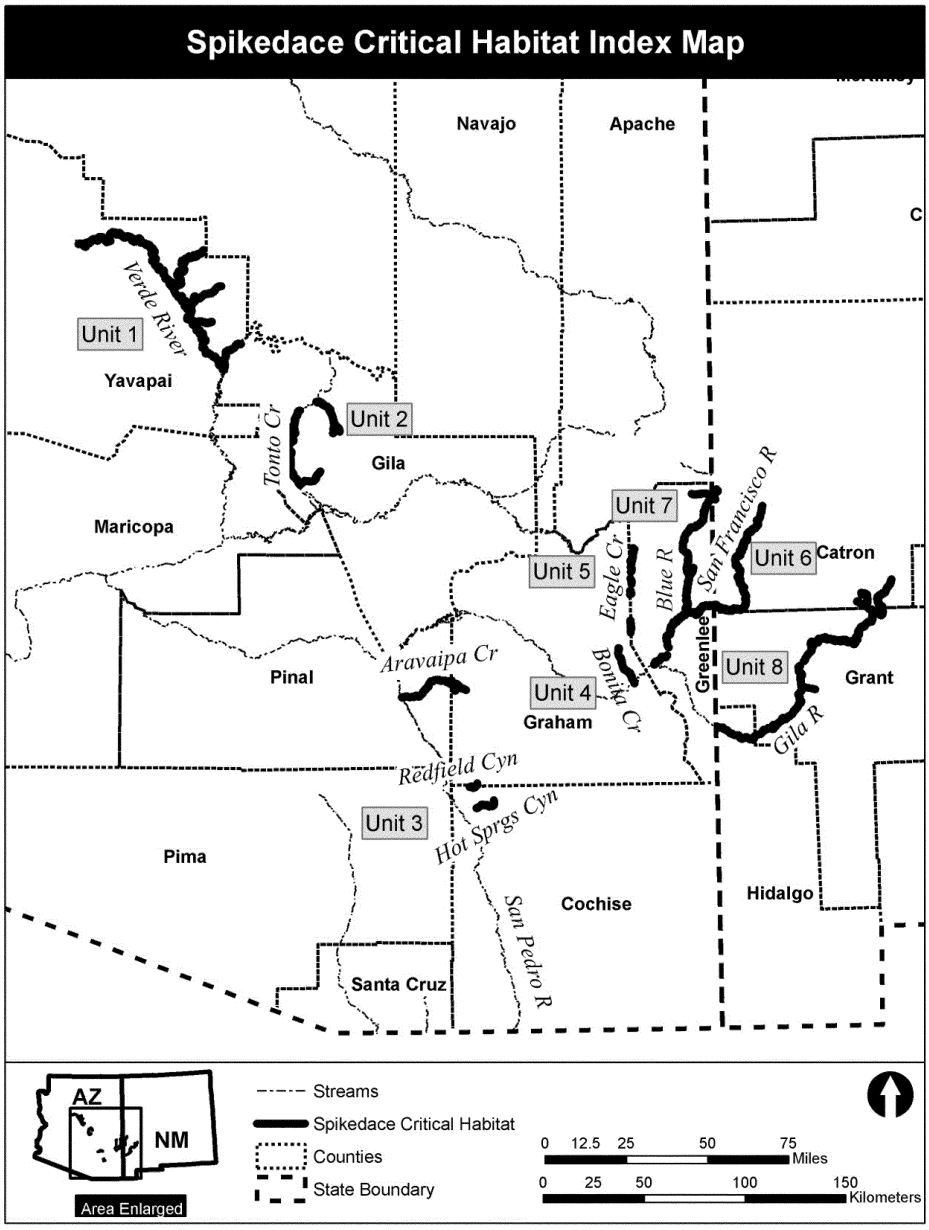
(v) No nonnative aquatic species, or levels of nonnative aquatic species that are sufficiently low as to allow persistence of spikedace.

(vi) Streams with a natural, unregulated flow regime that allows for periodic flooding or, if flows are modified or regulated, a flow regime that allows for adequate river functions, such as flows capable of transporting sediments.

(3) Critical habitat does not include manmade 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. We have determined that all designated areas contain at least one PCE for spikedace.

(4) *Critical habitat map units.* Data layers defining map units were created on a base of USGS 7.5′ quadrangles along with shapefiles generated by the Arizona Land Resource Information Service for land ownership, streams, counties, and the Public Land Survey System. Information on species locations was derived from databases developed by the Arizona Game and Fish Department, the New Mexico Department of Game and Fish, and Arizona State University.

(5) *Note:* Index map follows:



(6) Unit 1: Verde River Subbasin, Yavapai County, Arizona.

(i) Verde River for approximately 170.6 km (105.9 mi), extending from the confluence with Fossil Creek in Township 11 North, Range 6 East, northeast quarter of section 25 upstream to Sullivan Dam in Township 17 North, Range 2 West, northwest quarter of section 15. This mileage does not include the 1.2 km (0.8 mi) belonging to the Yavapai-Apache Nation, which is excluded from this

designation. Granite Creek for approximately 3.2 km (2.0 mi), extending from the confluence with the Verde River in Township 17 North, Range 2 West, northeast quarter section 14 upstream to a spring in Township 17 North, Range 2 West, southwest quarter of the southwest quarter of section 13.

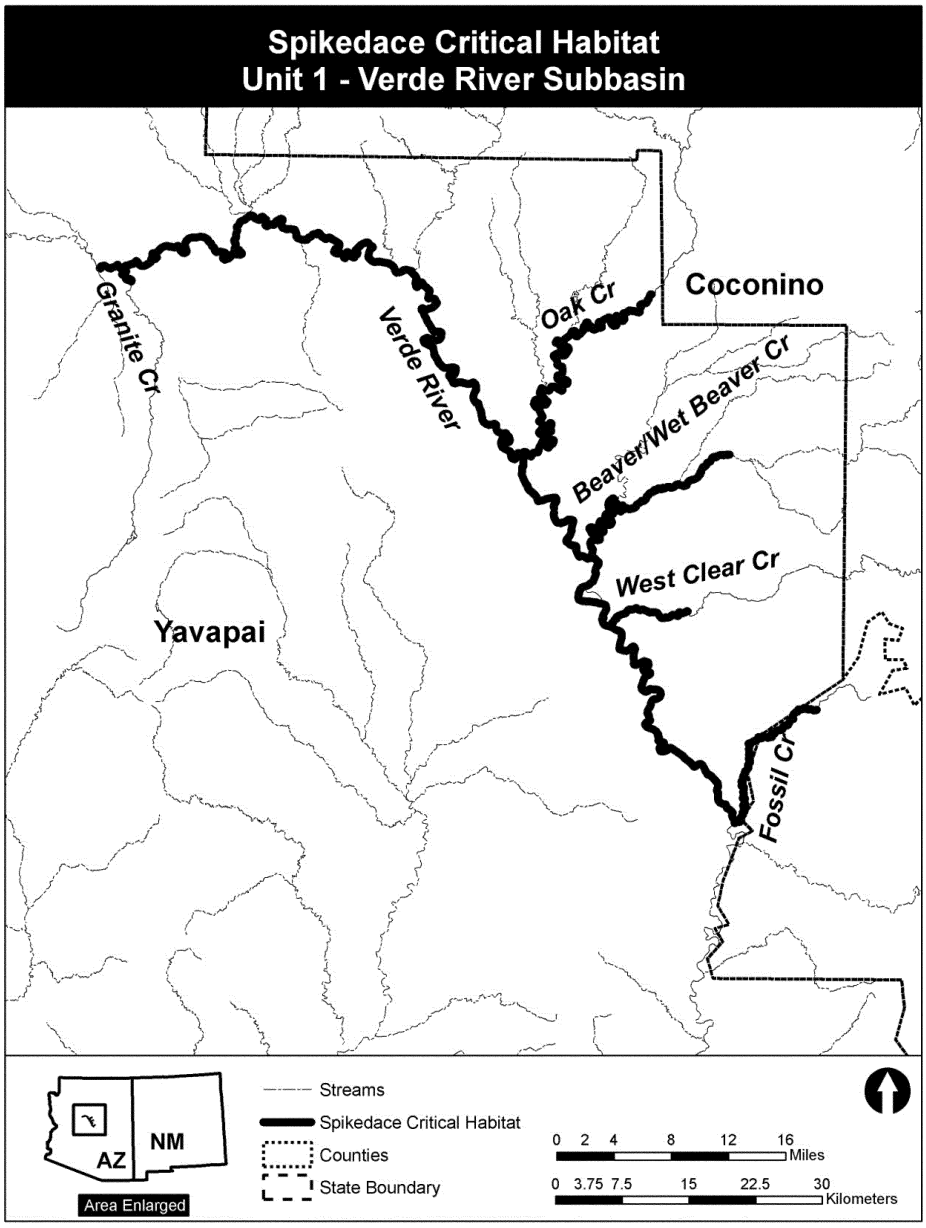
(ii) Oak Creek for approximately 54.3 km (33.7 mi), extending from the confluence with the Verde River in Township 15 North, Range 4 East, southeast quarter section 20 upstream to the confluence with an unnamed tributary from the south in Township 17 North, Range 5 East, southeast quarter of the northeast quarter of section 24.

(iii) Beaver Creek/Wet Beaver Creek for approximately 33.3 km (20.7 mi), extending from the confluence with the Verde River in Township 14 North, Range 5 East, southeast quarter of section 30 upstream to the confluence with Casner Canyon in Township 15 North, Range 6 East, northwest quarter of section 23. This mileage does not include the 0.2 km (0.1 mi) belonging to the Yavapai-Apache Nation and excluded from these designations.

(iv) West Clear Creek for approximately 10.9 km (6.8. mi), extending from the confluence with the Verde River in Township 13 North, Range 5 East, center section 21, upstream to the confluence with Black Mountain Canyon in Township 13 North, Range 6 East, southeast quarter of section 17.

(v) Fossil Creek for approximately 22.2 km (13.8 mi) from its confluence with the Verde River at Township 11 North, Range 6 East, northeast quarter of section 25 upstream to the old Fossil Diversion Dam site at Township 12 North, Range 7 East, southeast quarter of section 14.

(vi) *Note:* Map of Unit 1, Verde River Subbasin follows.



(7) Unit 2: Salt River Subbasin, Gila County, Arizona.

(i) Tonto Creek for approximately 47.8 km (29.7 mi) extending from the confluence with Greenback Creek in Township 5 North, Range 11 East, northwest quarter of section 8 upstream to the confluence with Houston Creek in Township 9 North, Range 11 East, northeast quarter of section 18.

(ii) Greenback Creek for approximately 15.1 km (9.4 mi) from the confluence with Tonto Creek in Township 5 North, Range 11

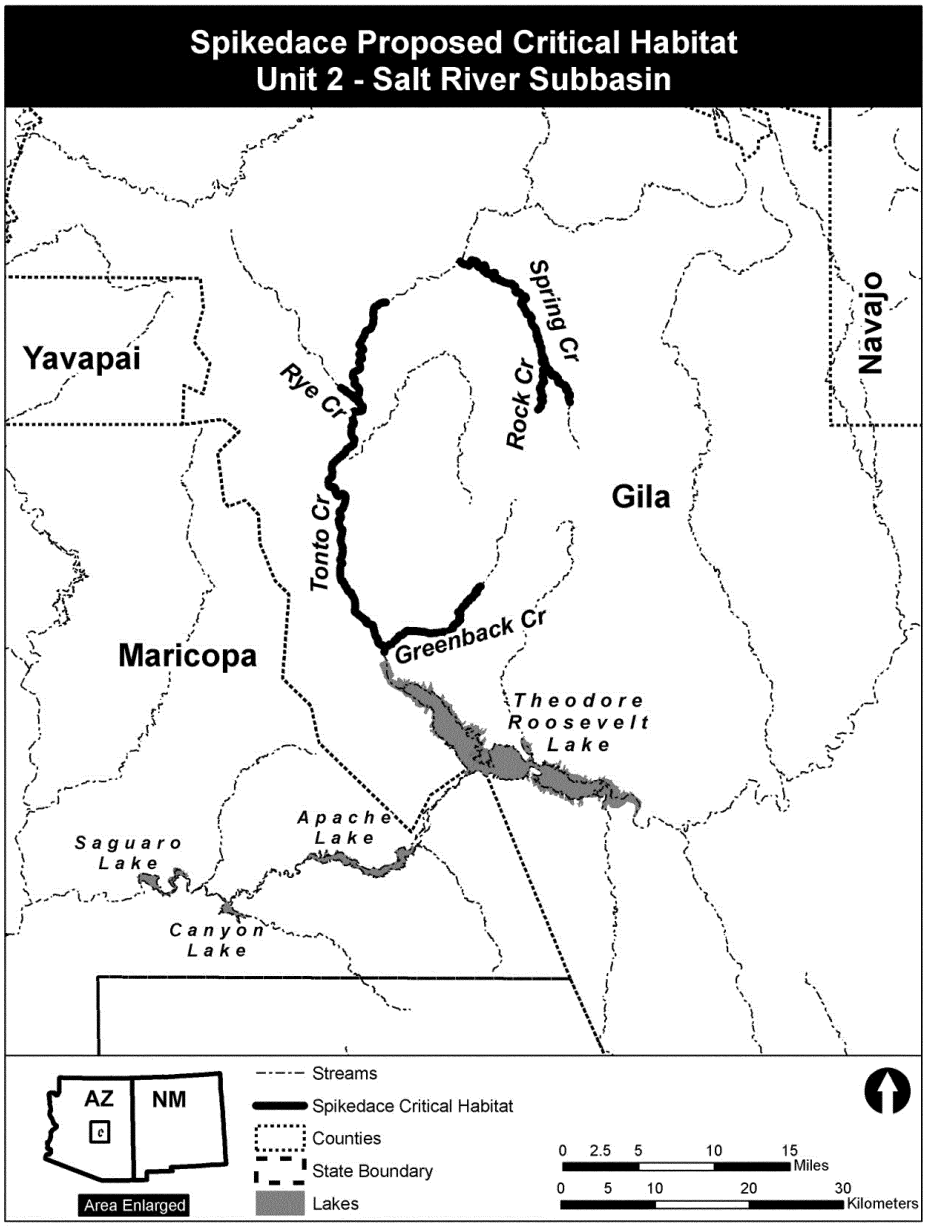
East, northwest quarter of section 8 upstream to Lime Springs in Township 6 North, Range 12 East, southwest quarter of section 20.

(iii) Rye Creek for approximately 2.8 km (1.8 mi) extending from the confluence with Tonto Creek in Township 8 North, Range 10 East, northeast quarter of section 24 upstream to the confluence with Brady Canyon in Township 8 North, Range 10 East, northwest quarter of section 14.

(iv) Spring Creek for approximately 27.2 km (16.9 mi) extending from the confluence with the Tonto River at Township 10 North, Range 11 East, southeast quarter of section 36 upstream to the confluence with Sevenmile Canyon at Township 8 North, Range 13 East, northern boundary of section 20.

(v) Rock Creek for approximately 5.8 km (3.6 mi) extending from the confluence with Spring Creek at Township 8 North, Range 12 East, southeast quarter of section 1 upstream to the confluence with Buzzard Roost Canyon at Township 8 North, 12 East, center of section 24.

(vi) *Note:* Map of Unit 2, Salt River Subbasin follows.



(8) Unit 3: San Pedro River Subbasin, Cochise, Graham, and Pinal Counties, Arizona.

(i) Aravaipa Creek for approximately 44.9 km (27.9 mi) extending from the confluence with the San Pedro River in Township 7 South, Range 16 East, center of section 9 upstream to the confluence with Stowe Gulch in Township 6 South, Range 19 East, southeast quarter of the northeast quarter of section 35. Deer Creek—3.7 km (2.3 mi) of the 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.

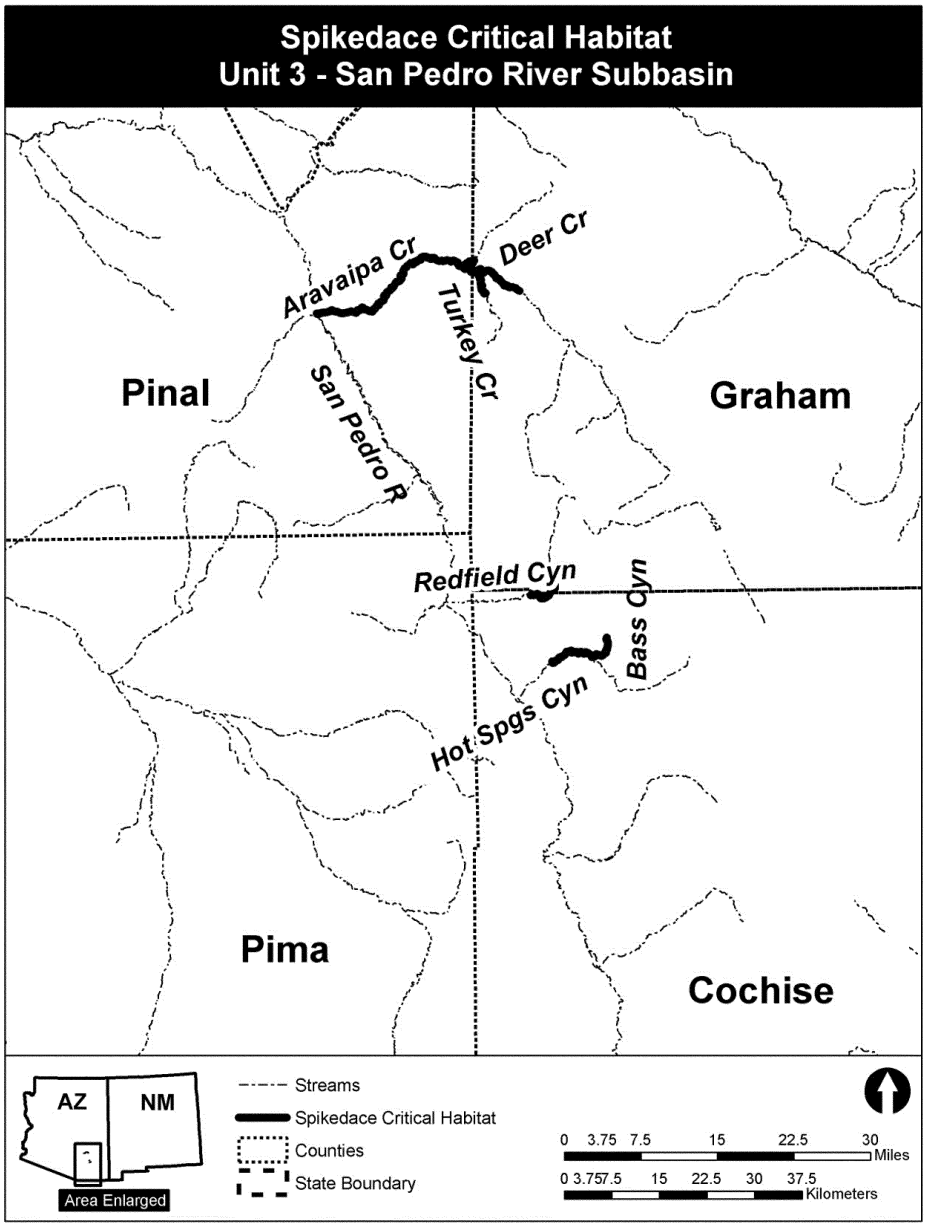
(ii) Turkey Creek—4.3 km (2.7 mi) of the creek extending from the confluence with Aravaipa Creek at Township 6 South, Range 19 East, section 19 upstream to the confluence with Oak Grove Canyon at Township 6 South, Range 19 east, section 32.

(iii) Hot Springs Canyon for approximately 9.3 km (5.8 mi) extending from the confluence with Bass Canyon in Township 12 South, Range 20 East, northeast quarter of section 36 downstream to Township 12 South, Range 20 East, southeast quarter of section 32.

(iv) Redfield Canyon for approximately 6.5 km (4.0 mi) extending from Township 11 South, Range 19 East, northeast quarter of section 36 upstream to the confluence with Sycamore Canyon in Township 11 South, Range 20 East, northwest quarter of section 28.

(v) Bass Canyon for approximately 5.5 km (3.4 mi) from the confluence with Hot Springs Canyon in Township 12 South, Range 20 East, northeast quarter of section 36 upstream to the confluence with Pine Canyon in Township 12 South, Range 21 East, center of section 20.

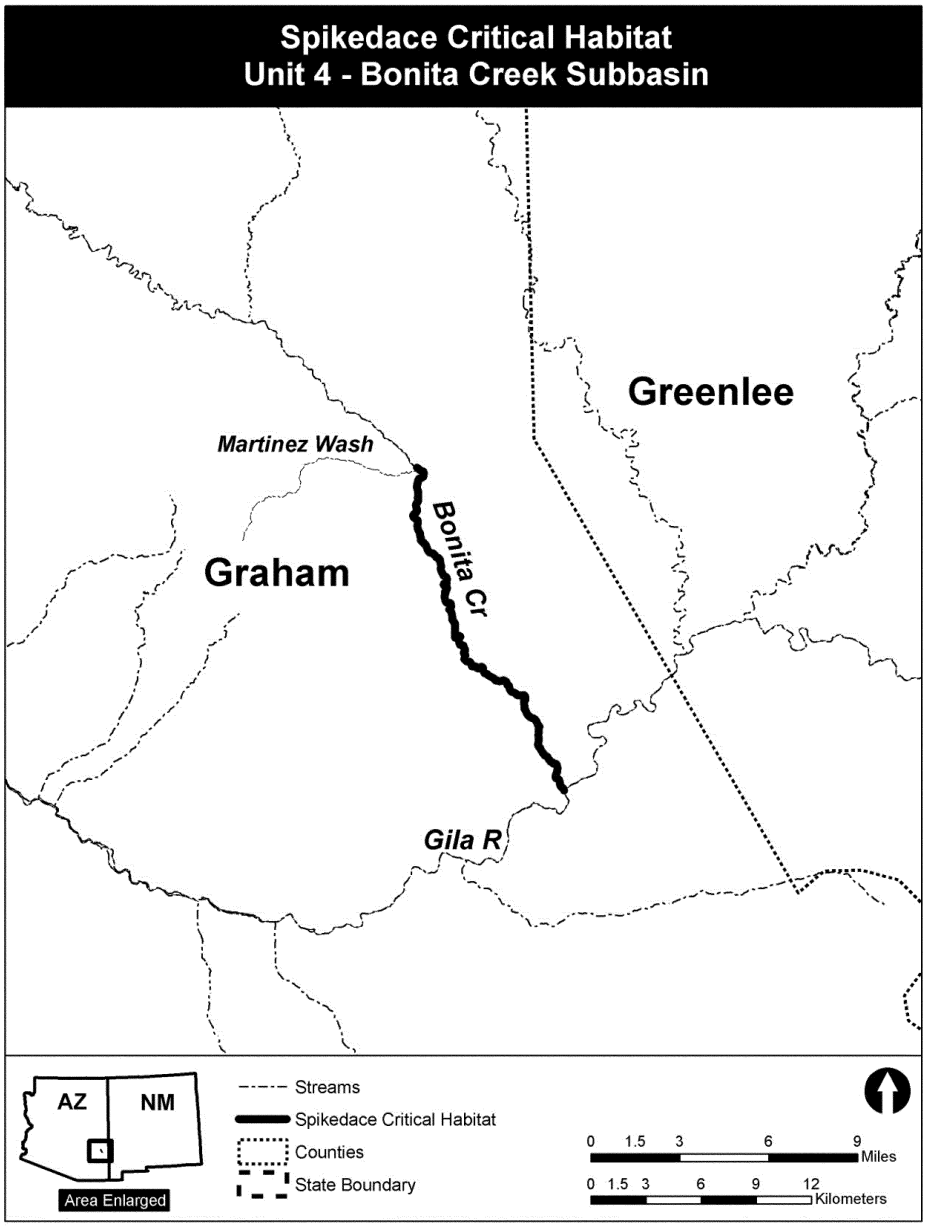
(vi) *Note:* Map of Unit 3, San Pedro River Subbasin follows.



(9) Unit 4: Bonita Creek Subbasin, Graham County, Arizona.

(i) Bonita Creek for approximately 23.8 km (14.8 mi) from the confluence with the Gila River in Township 6 South, Range 28 East, southeast quarter of section 21 upstream to the confluence with Martinez Wash in Township 4 South, Range 27 East, southeast quarter of Section 27.

(ii) *Note:* Map of Unit 4, Bonita Creek Subbasin follows.

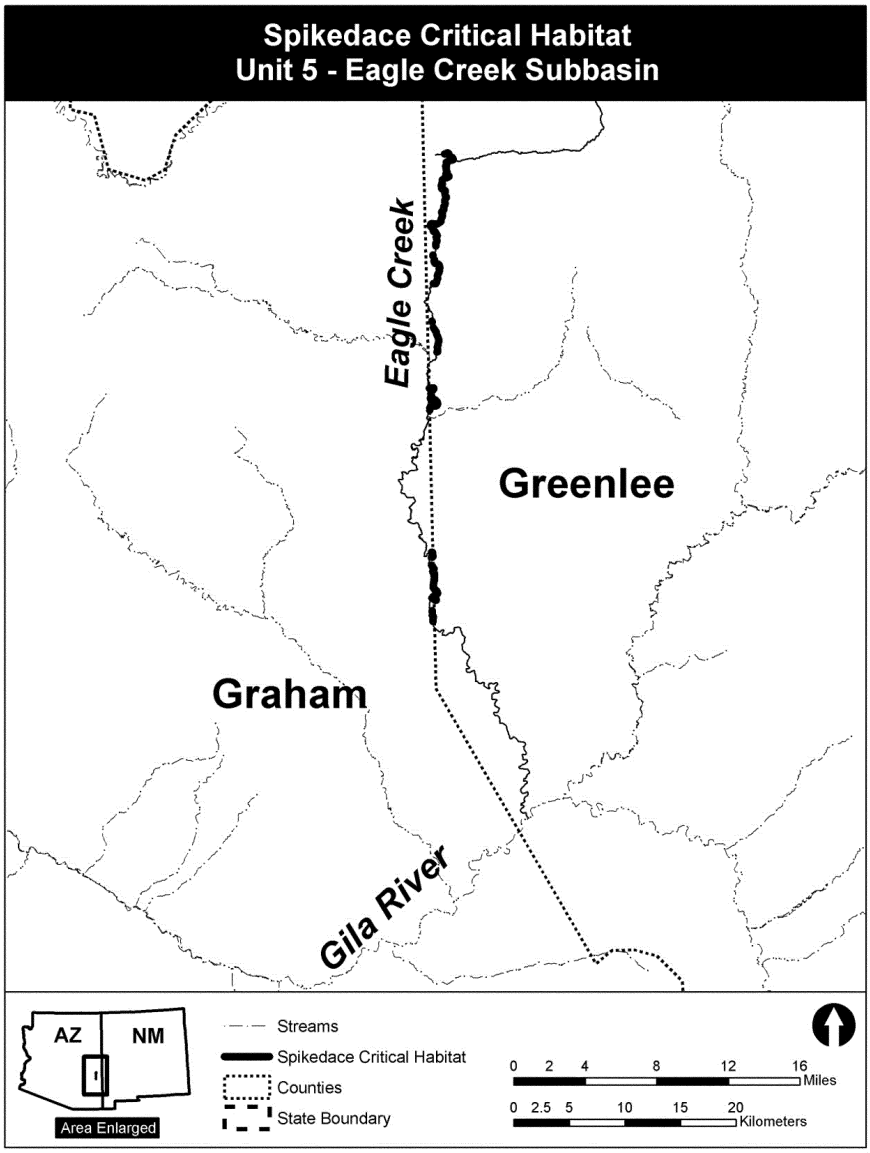


(10) Unit 5: Eagle Creek Subbasin, Graham and Greenlee Counties, Arizona.

(i) Eagle Creek for approximately 26.5 km (16.5 mi) from the Freeport-McMoRan diversion dam at Township 4 South, Range 28 East, southwest quarter of the northwest quarter of section 23 upstream to the confluence of East Eagle Creek in Township 2 North, Range 28 East, southwest quarter of section 20. This mileage does not include approximately 21.4 km (13.3 mi) of Eagle Creek

on lands belonging to Freeport-McMoRan, which is excluded from this designation.

(ii) *Note:* Map of Unit 5, Eagle Creek Subbasin follows.

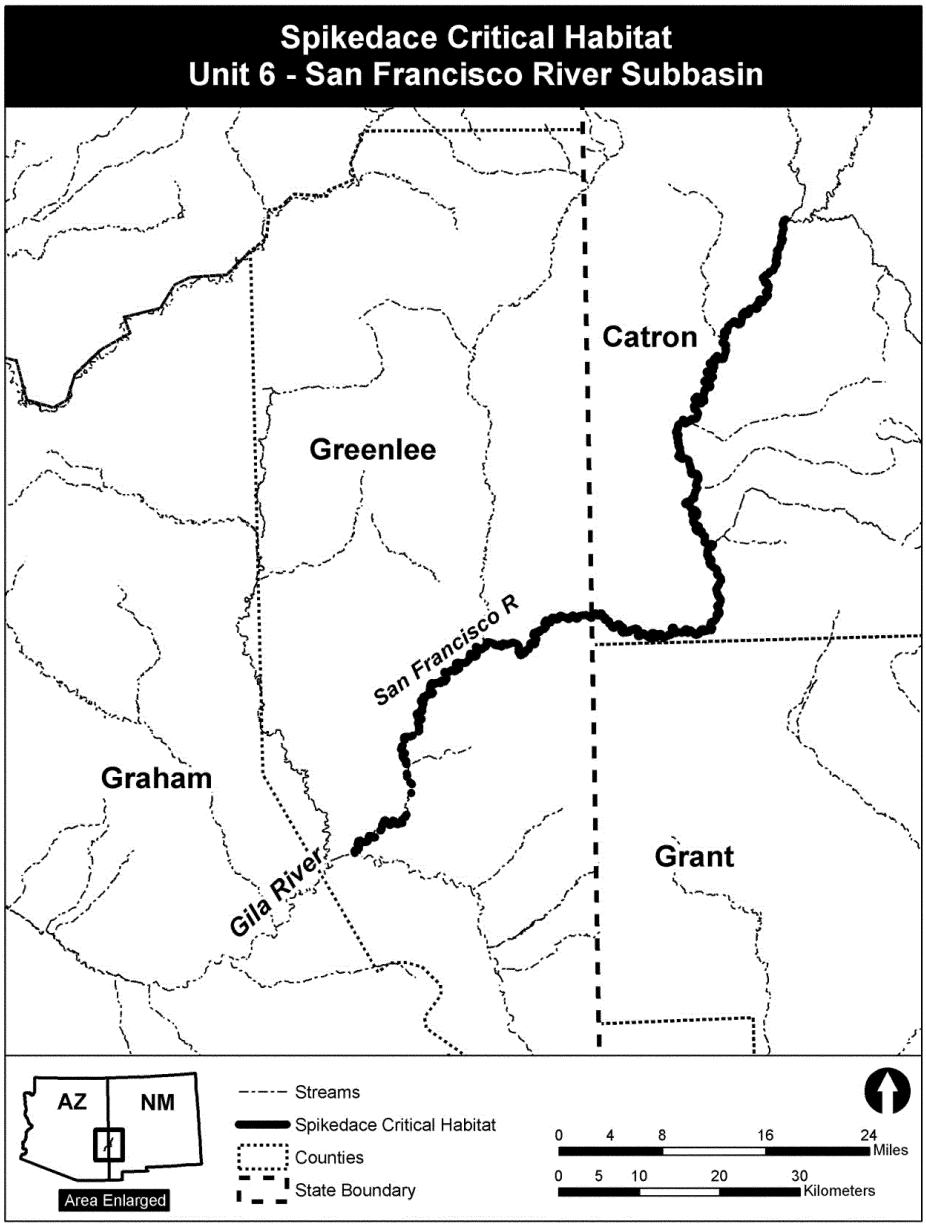


(11) Unit 6: San Francisco River Subbasin, Greenlee County, Arizona, and Catron County, New Mexico.

(i) San Francisco River for approximately 166.7 km (103.5 mi) of the San Francisco River extending from the confluence with the Gila River in Arizona in Township 5

South, Range 29 East, southeast quarter of section 21 upstream to Township 6 South, Range 19 West, section 2 in New Mexico. This mileage does include approximately 14.1 km (8.8 mi) of the San Francisco River on lands belonging to Freeport-McMoRan, which is excluded from this designation.

(ii) *Note:* Map of Unit 6, San Francisco River Subbasin follows.



(12) Unit 7: Blue River Subbasin, Greenlee County, Arizona, and Catron County, New Mexico.

(i) Blue River for approximately 81.4 km (50.6 mi) from the confluence with the San Francisco River at Township 2S., Range 31 East, southeast quarter of section 31 upstream to the confluence of Campbell Blue and Dry Blue Creeks at Township 7 South, Range 21 West, southeast quarter of section 6.

(ii) Campbell Blue Creek for approximately 12.4 km (7.7 mi) from the confluence of Dry Blue and Campbell Blue Creeks at Township 7 South, Range 21 West, southeast quarter of section 6 to the confluence with Coleman Canyon in Township 4.5 North, Range 31 East, southwest quarter of the northeast quarter of section 32.

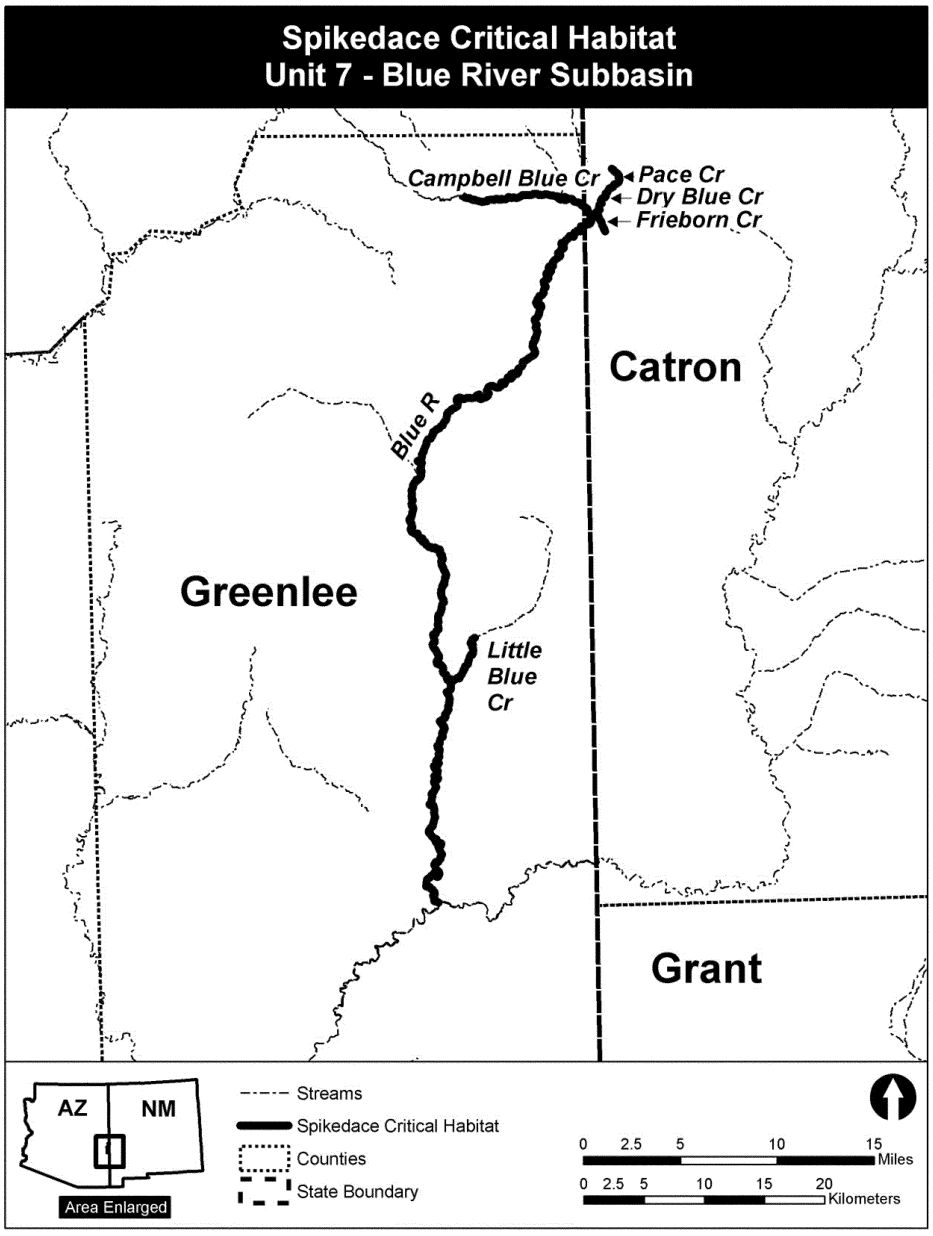
(iii) Little Blue Creek for approximately 5.1 km (3.1 mi) from the confluence with the Blue River at Township 1 South, Range 31 East, center Section 5 upstream to the mouth of a canyon at Township 1 North, Range 31 East, northeast quarter of section 29.

(iv) Pace Creek for approximately 1.2 km (0.8 mi) from the confluence with Dry Blue Creek at Township 6 South, Range 21 West, southwest quarter of Section 28 upstream to a barrier falls at Township 6 South, Range 21 West, northeast quarter of section 29.

(v) Frieborn Creek for approximately 1.8 km (1.1 mi) from the confluence with Dry Blue Creek at Township 7 South, Range 21 West, southwest quarter of the northwest quarter of section 5 upstream to an unnamed tributary flowing from the south in Township 7 South, Range 21 West, northeast quarter of southwest quarter of section 8.

(vi) Dry Blue Creek for approximately 4.7 km (3.0 mi) from the confluence with Campbell Blue Creek at Township 7 South, Range 21 West, southeast quarter of Section 6 upstream to the confluence with Pace Creek in Township 6 South, Range 21 West, southwest quarter of section 28.

(vii) *Note:* Map of Unit 7, Blue River Subbasin follows.



(13) Unit 8: Gila River Subbasin, Catron, Grant, and Hidalgo Counties, New Mexico.

(i) Gila River for approximately 153.5 km (95.4 mi) from the confluence with Moore Canyon at Township 18 South, Range 21 West, southeast quarter of the southwest quarter of section 32 upstream to the confluence of the East and West Forks of the Gila River at Township 13 South, Range 13 West, center of section 8. This mileage does not include approximately 11.5 km (7.2 mi) of the Gila River on lands owned by Freeport-

McMoRan, which is excluded from this designation.

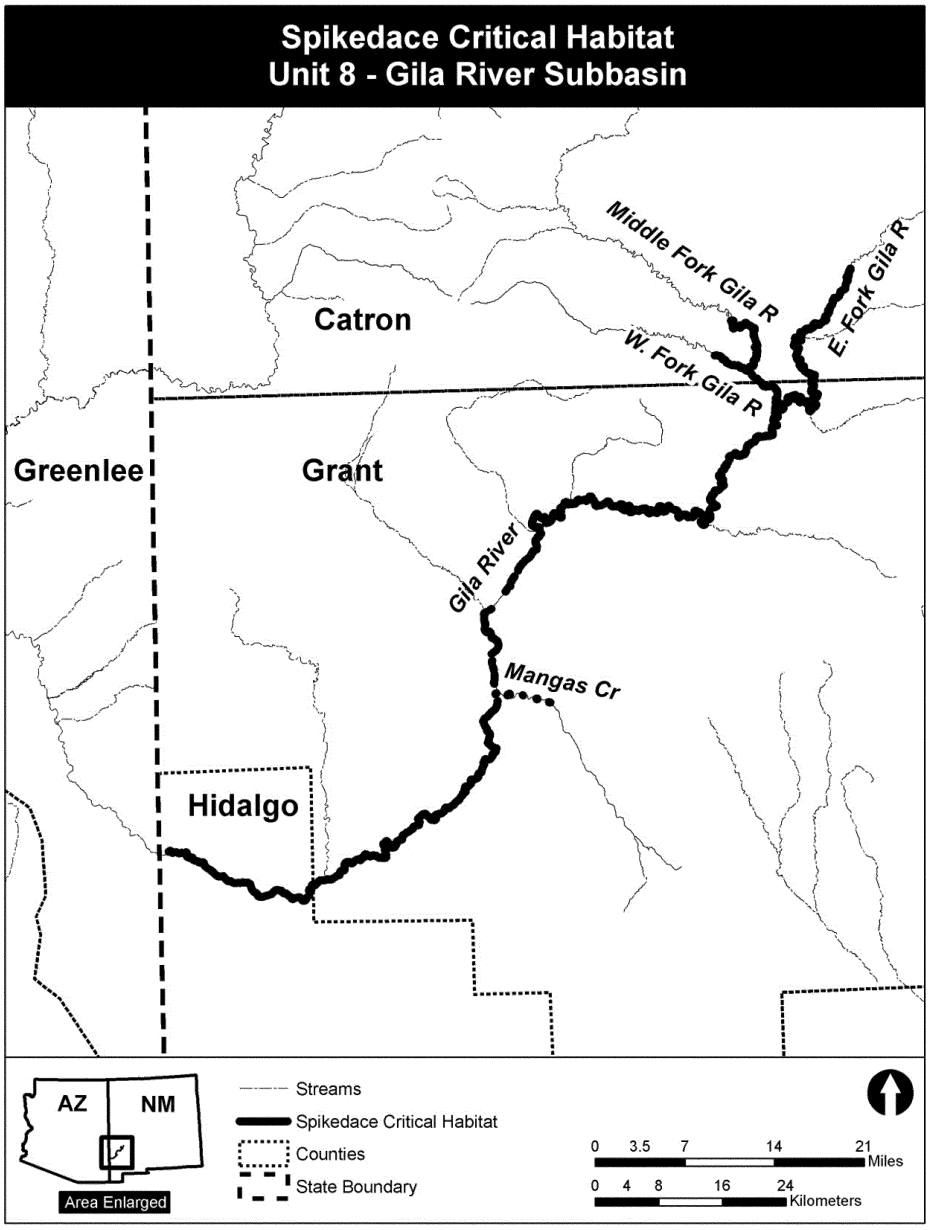
(ii) West Fork Gila River for approximately 13.0 km (8.1 mi) from the confluence with the East Fork Gila River at Township 13 South, Range 13 West, center of section 8 upstream to the confluence with EE Canyon at Township 12 South, Range 14 West, east boundary of Section 21.

(iii) Middle Fork Gila River for approximately 12.5 km (7.7 mi) of the Middle Fork Gila River extending from the confluence with West Fork Gila River at Township 12 South, Range 14 West, southwest quarter of section 25 upstream to the confluence of Big Bear Canyon in Township 12 South, Range 14 West, southwest quarter of section 2.

(iv) East Fork Gila River for approximately 42.1 km (26.2 mi) extending from the confluence with West Fork Gila River at Township 13 South, Range 13 West, center of section 8 upstream to the confluence of Beaver and Taylor Creeks in Township 11 South, Range 12 West, northeast quarter of section 17.

(v) Mangas Creek for approximately 1.2 km (0.8 mi) extending from Township 17 South, Range 17 West, at the eastern boundary of section 3 upstream to the confluence with Blacksmith Canyon at Township 17 South, Range 17 West, northwest quarter of section 3. This mileage does not include approximately 7.9 km (4.9 mi) of Mangas Creek on lands belonging to Freeport-McMoRan, which are excluded from the designation.

(vi) *Note:* Map of Unit 8, Gila River Subbasin follows.



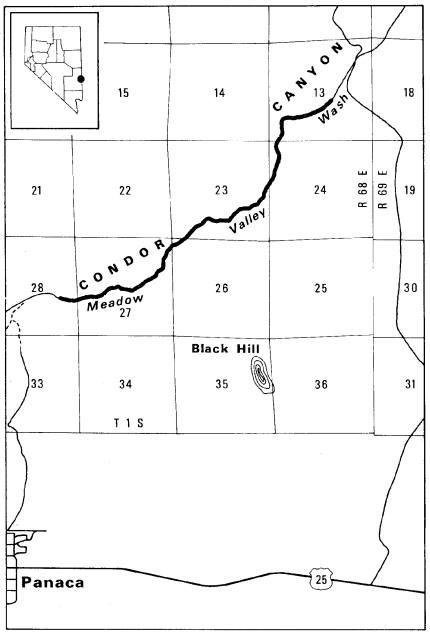
BIG SPRING SPINEDACE (*Lepidomeda mollispinis pratensis*)

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: The map provided is for informational purposes only. Map follows:

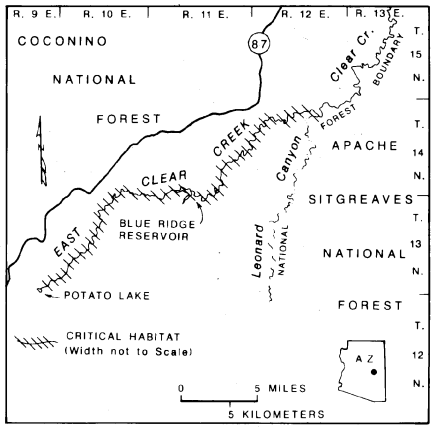


LITTLE COLORADO SPINEDACE (*Lepidomeda vittata*)

Arizona:

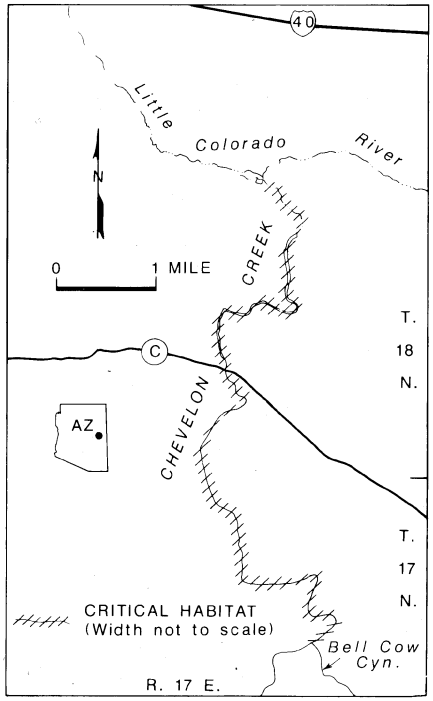
1. Coconino County. East Clear Creek; approximately 18 miles of stream extending from the confluence with Leonard Canyon (NE ¼ Sec. 11 T14N R12E) upstream to the Blue Ridge Reservoir dam (SE ¼ Sec. 33 T14N R11E), and approximately 13 miles of stream extending from the upper end of Blue Ridge Reservoir (east boundary SE ¼ Sec. 36 T14N R10E) upstream to Potato Lake (NE ¼ Sec. 1 T12N R9E).

NOTE: The map provided is for informational purposes only. Map follows:



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).

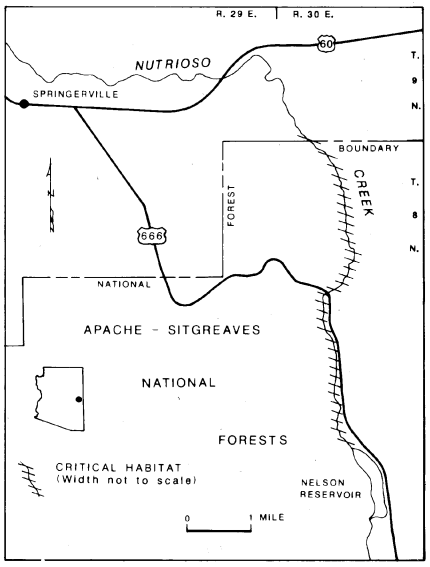
NOTE: The map provided is for informational purposes only. Map follows:



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).

NOTE: The map provided is for informational purposes only. Map follows:



Constituent elements, for all areas of critical habitat, include clean, permanent flowing water, with pools and a fine gravel or silt-mud substrate.

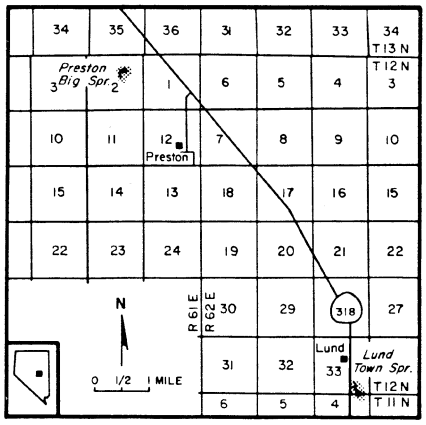
WHITE RIVER SPINEDACE (*Lepidomeda albivallis*)

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.

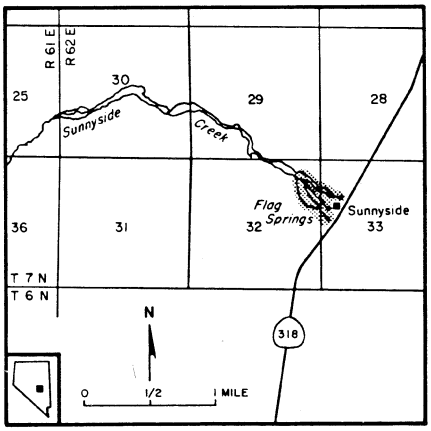
Lund Spring and associated outflows within T11N, R62E, NE ¼ of NE ¼ of Sec. 4; T12N, R62E, S ½ of SE ¼ Sec. 33.

NOTE: The map provided is for informational purposes only. 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: The map provided is for informational purposes only. 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.

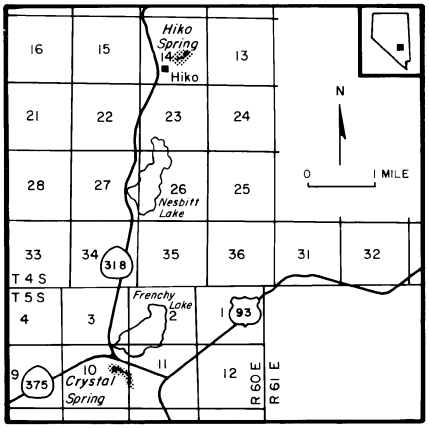
HIKO WHITE RIVER SPRINGFISH (*Crenichthys baileyi grandis*)

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: The map provided is for informational purposes only. Map follows:

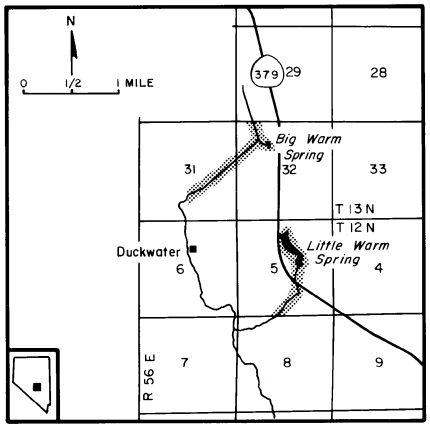


Known constituent elements include warmwater springs and their outflows and surrounding land areas that provide vegetation for cover and habitat for insects and other invertebrates on which the species feeds.

RAILROAD VALLEY SPRINGFISH (*Crenichthys nevadae*)

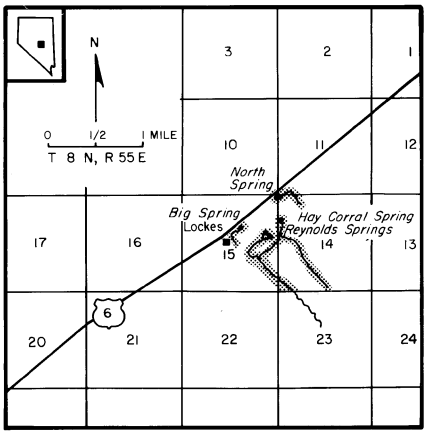
1. Nevada, Nye County, Duckwater area. Big Warm Spring and its outflow pools, streams, and marshes and a 50 foot riparian zone around the spring, outflow pools, streams, and marshes in T13N, R56E, NE¼ Sec. 31, SE¼ Sec. 31, NW¼ Sec. 32. Little Warm Spring and its outflow pools, streams, and marshes, and a 50-foot riparian zone around the spring, outflow pools, streams, and marshes in T12N, R56E, Sec. 5.

NOTE: The map provided is for informational purposes only. Map follows:



2. 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: The map provided is for informational purposes only. Map follows:



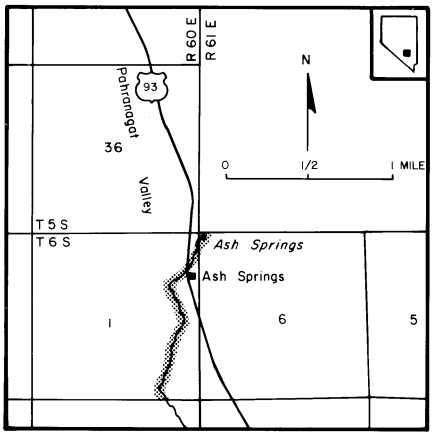
Known constituent elements for all areas of critical habitat of the Railroad Valley springfish include clear, unpolluted thermal spring waters ranging in temperature from 29° to 36 °C in pools; flowing channels; marshy areas with aquatic plants, insects, and mollusks.

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: The map provided is for informational purposes only. 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).

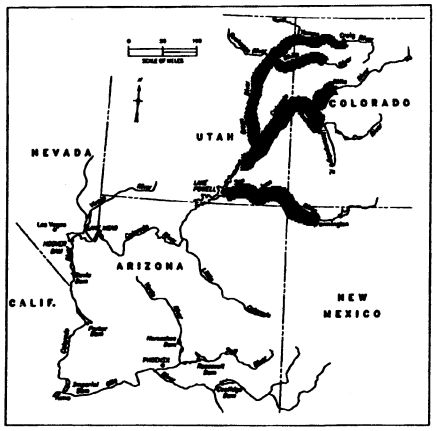
Colorado: Delta and Mesa Counties. The Gunnison River and its 100-year flood plain from the confluence with the Uncompahgre River in T.15S., R.96W., sec. 11 (6th Principal Meridian) to the confluence with the Colorado River in T.1S., R.1W., sec. 22 (Ute Meridian).

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.

NOTE: The map provided is for informational purposes only. Map follows:



ALABAMA STURGEON (*Scaphirhynchus suttkusi*)

(1) Critical habitat unit is depicted for Baldwin, Monroe, Wilcox, Clarke, Dallas, Lowndes, Autauga, Bibb, and Perry Counties, Alabama, on the map below.

(2) The primary constituent elements of critical habitat for the Alabama sturgeon are:

(i) A flow regime (*i.e.*, the magnitude, frequency, duration, seasonality of discharge over time) necessary to maintain all life stages of the species in the riverine environment, including migration, breeding site selection, resting, larval development, and protection of cool water refuges (*i.e.*, tributaries).

(ii) River channel with stable sand and gravel river bottoms, and bedrock walls, including associated mussel beds.

(iii) Limestone outcrops and cut limestone banks, large gravel or cobble such as that found around channel training devices, and bedrock channel walls that provide riverine spawning sites with substrates suitable for embryo deposition and development.

(iv) Long sections of free-flowing water to allow spawning migrations and development of embryos and larvae.

(v) Water temperature not exceeding 32 °Celsius (90 °Fahrenheit); dissolved oxygen levels not less than 5 milligrams per liter (mg/L) (5 parts per million (ppm)), except under extreme conditions due to natural causes or downstream of existing hydroelectric impoundments, where it can range from 5 mg/L to 4 mg/L (5 ppm to 4 ppm); and pH within the range of 6.0 to 8.5.

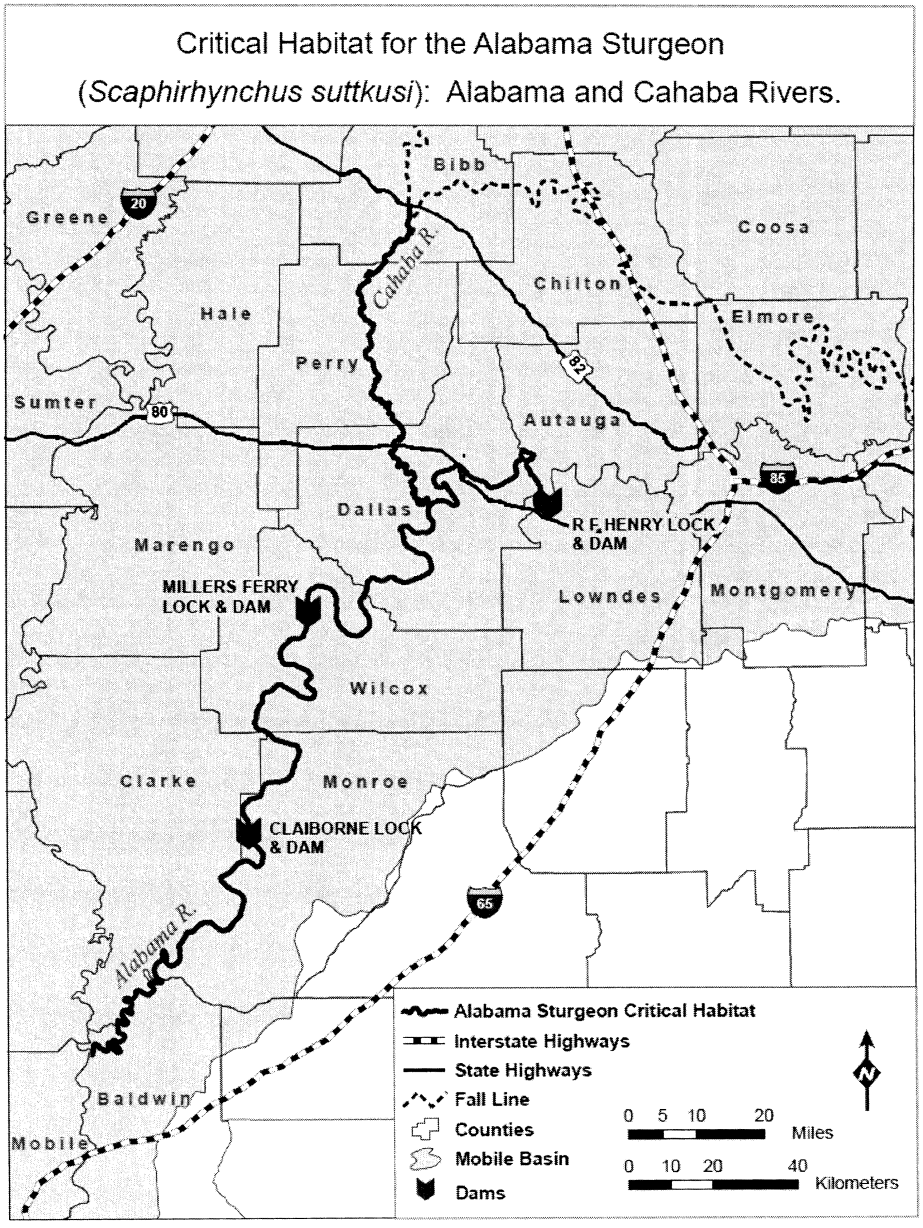
(3) Critical habitat does not include manmade structures (such as buildings, aqueducts, docks, dams, runways, roads, and other paved areas) and the land or waterway on which they are located existing within the legal boundaries on the effective date of this rule.

(4) Critical habitat map unit. Data layers defining the map unit were created on a base of USGS 7.5′ quadrangles, and the critical habitat unit was then mapped using Universal Transverse Mercator (UTM) coordinates.

(5) Unit: Alabama and Cahaba Rivers; Baldwin, Monroe, Wilcox, Clarke, Dallas, Lowndes, Autauga, Perry, and Bibb Counties, Alabama.

(i) The unit encompasses 524 km (326 mi) of river channel. The portion of river channel in the Alabama River extends 394 km (245 mi) from its confluence with the Tombigbee River, Baldwin and Clarke Counties, Alabama, upstream to R.F. Henry Lock and Dam, Autauga and Lowndes Counties, Alabama; and the portion of river channel in the Cahaba River extends 130 km (81 mi) from its confluence with the Alabama River, Dallas County, Alabama, upstream to U.S. Highway 82, Bibb County, Alabama.

(ii) Map of Unit, Critical Habitat for Alabama Sturgeon (*Scaphirhynchus suttkusi*): Alabama and Cahaba Rivers, follows:



GULF STURGEON (*Acipenser oxyrinchus desotoi*)

(1) Critical habitat units are depicted for Louisiana, Mississippi, Alabama, and Florida on the maps below. The maps provided are for informational purposes only.

(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).

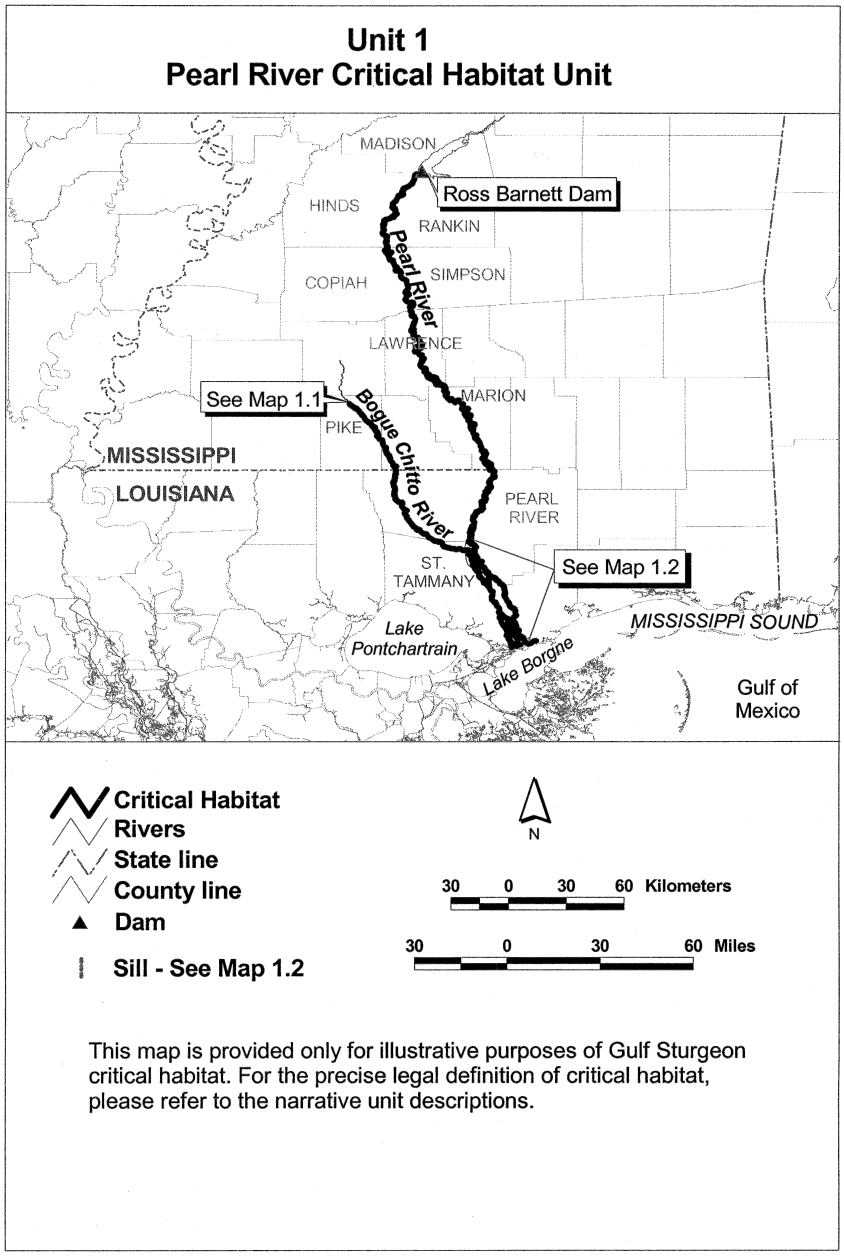
(3) Gulf sturgeon is under the joint jurisdiction of the U.S. Fish and Wildlife Service (FWS) and National Marine Fisheries Service (NMFS). The FWS will maintain primary responsibility for recovery actions and NMFS will assist in and continue to fund recovery actions pertaining to estuarine and marine 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.

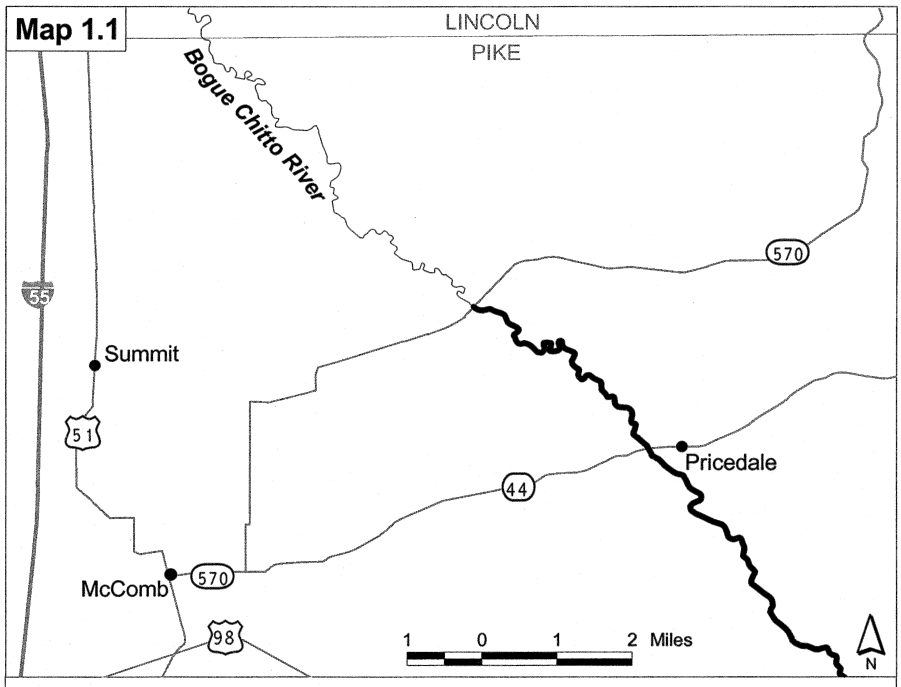
(4) The textual unit descriptions below are the definitive source for determining the critical habitat boundaries. General location maps by unit are provided at the end of each unit description and are provided for general guidance purposes only, and not as a definitive source for determining critical 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.

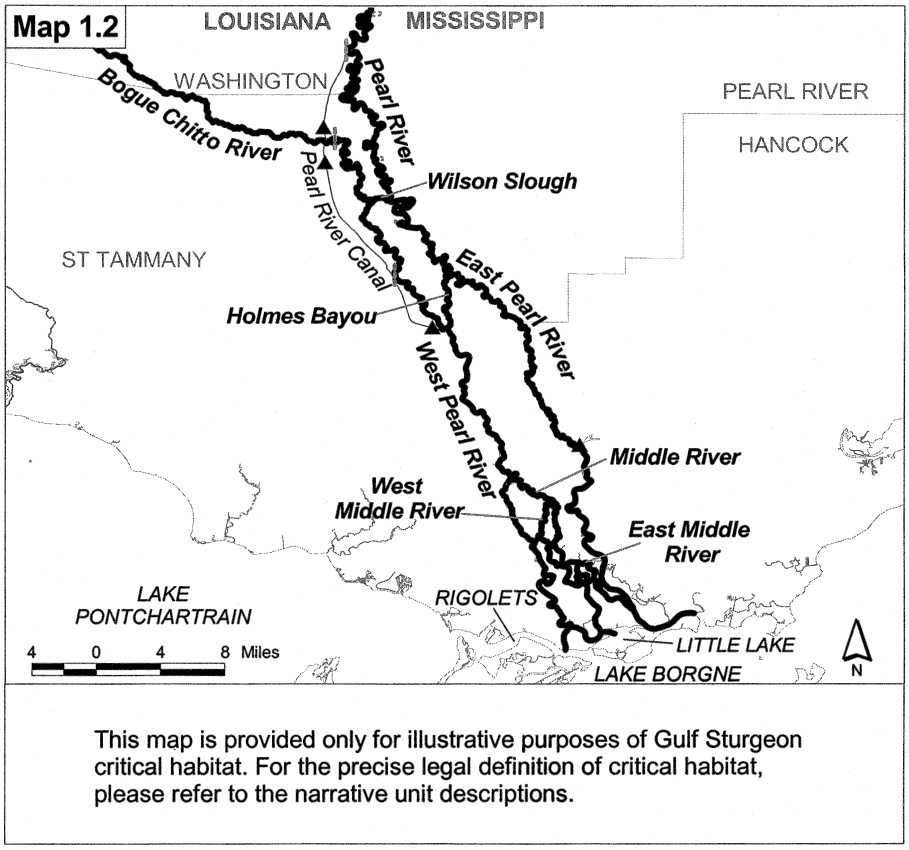
(i) Unit 1 includes the Pearl River main stem from the spillway of the Ross Barnett Dam, Hinds and Rankin Counties, Mississippi, downstream to where the main stem river drainage discharges at its mouth joining Lake Borgne, Little Lake, or The Rigolets in Hancock County, Mississippi, and St. Tammany Parish, 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.

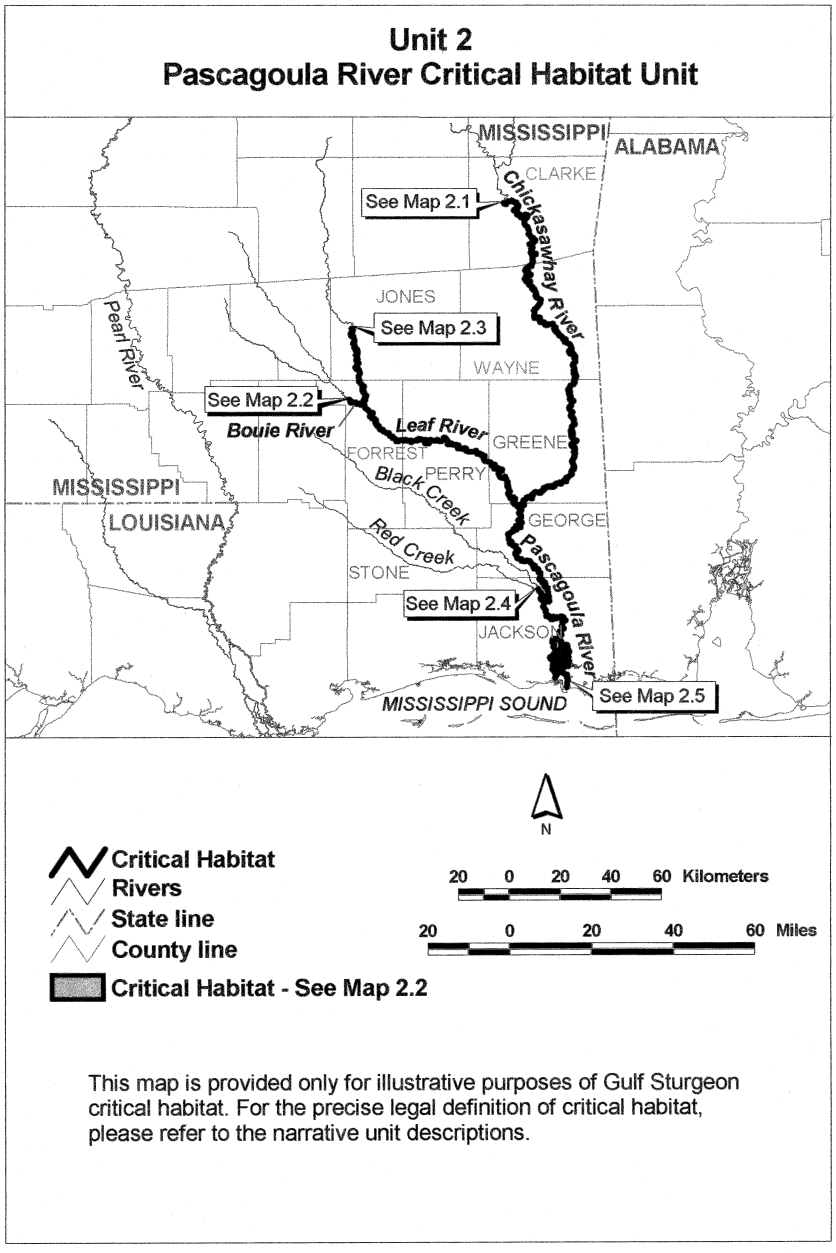


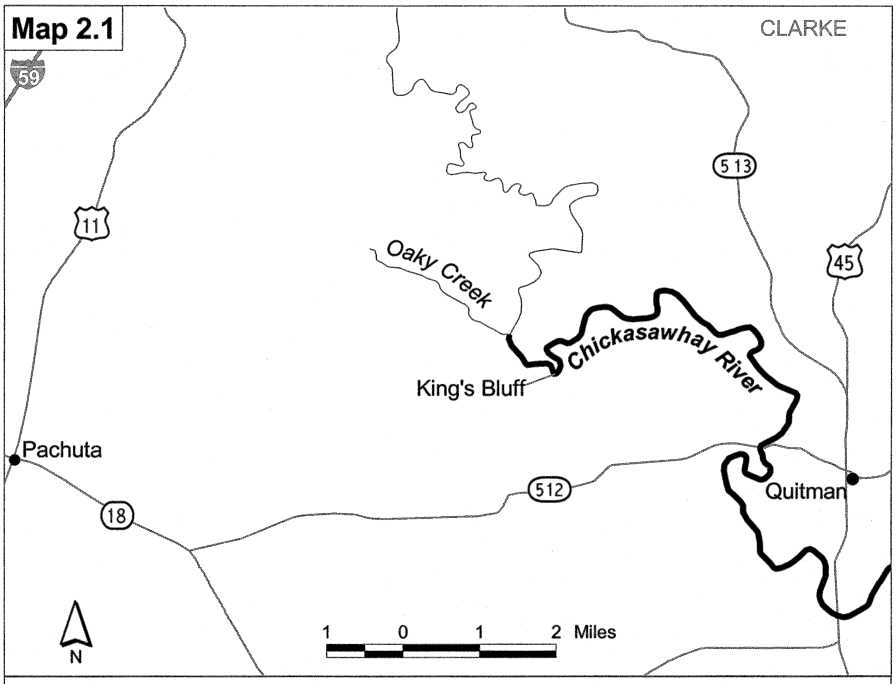
(6) *Unit 2:* Pascagoula River System in Forrest, Perry, Greene, George, Jackson, Clarke, Jones, and Wayne Counties, Mississippi.

(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.

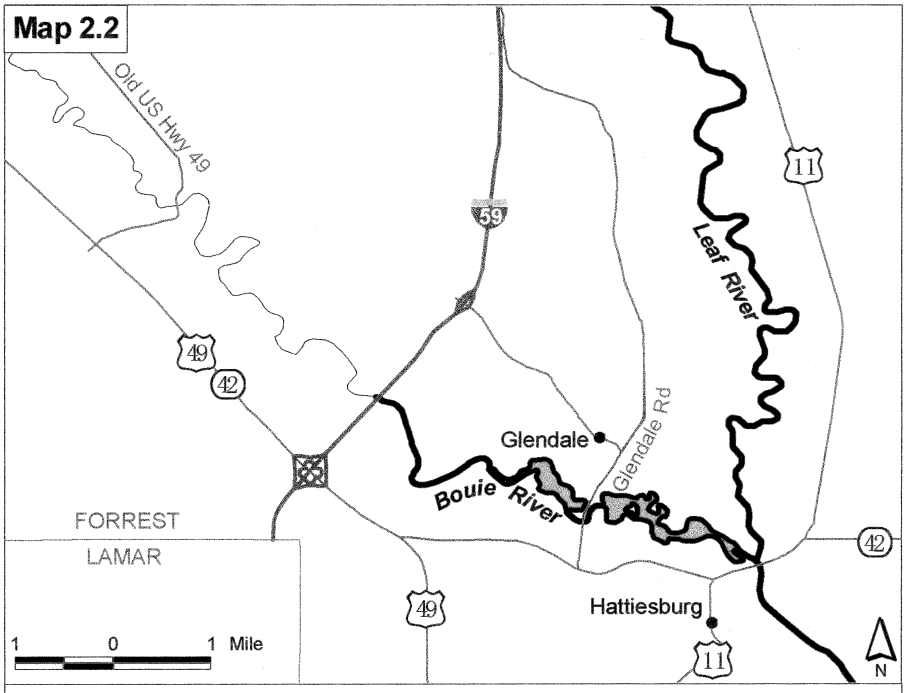
(ii) Major shipping channels in this unit are excluded under section 4(b)(2) of the Act.

(iii) Maps of Unit 2 follow:

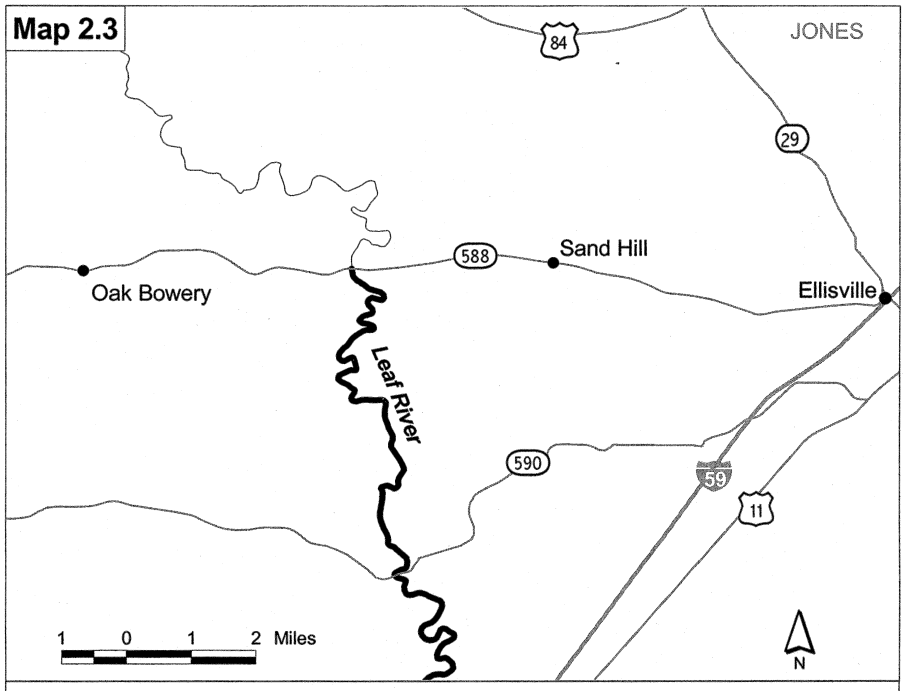

Unit 2
Pascagoula River Critical Habitat Unit
MISSISSIPPI
ALABAMA
CLARKE
See Map 2.1
Chickasawhay River
JONES
See Map 2.3
Pearl River
WAYNE
See Map 2.2
Bouie River
Leaf River
GREENE
FORREST
PERRY
Black Creek
MISSISSIPPI
LOUISIANA
GEORGE
Red Creek
Pascagoula River
STONE
See Map 2.4
JACKSON
MISSISSIPPI 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.



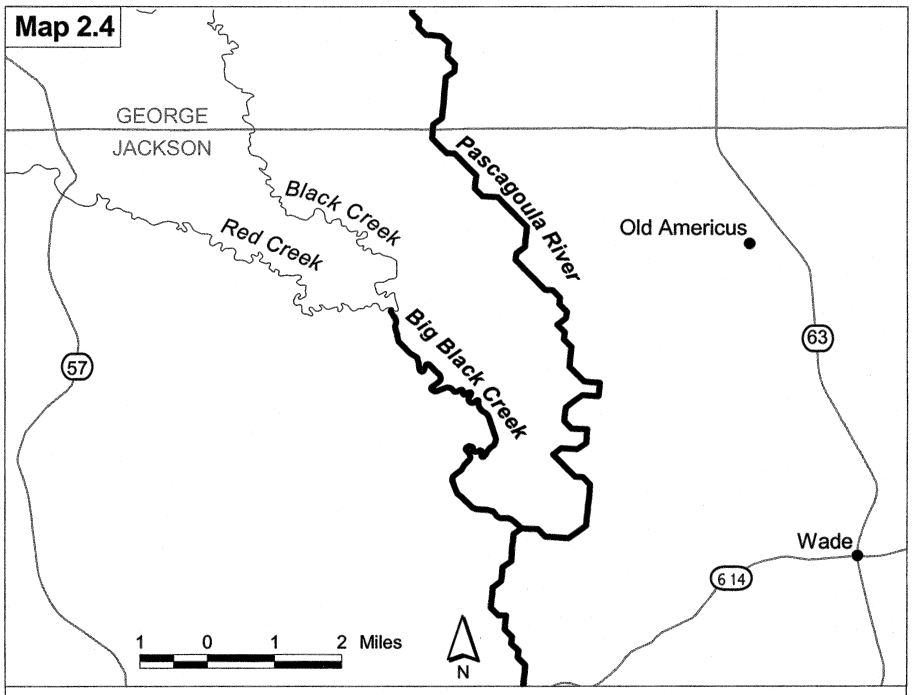
This map is provided only for illustrative purposes of Gulf Sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.



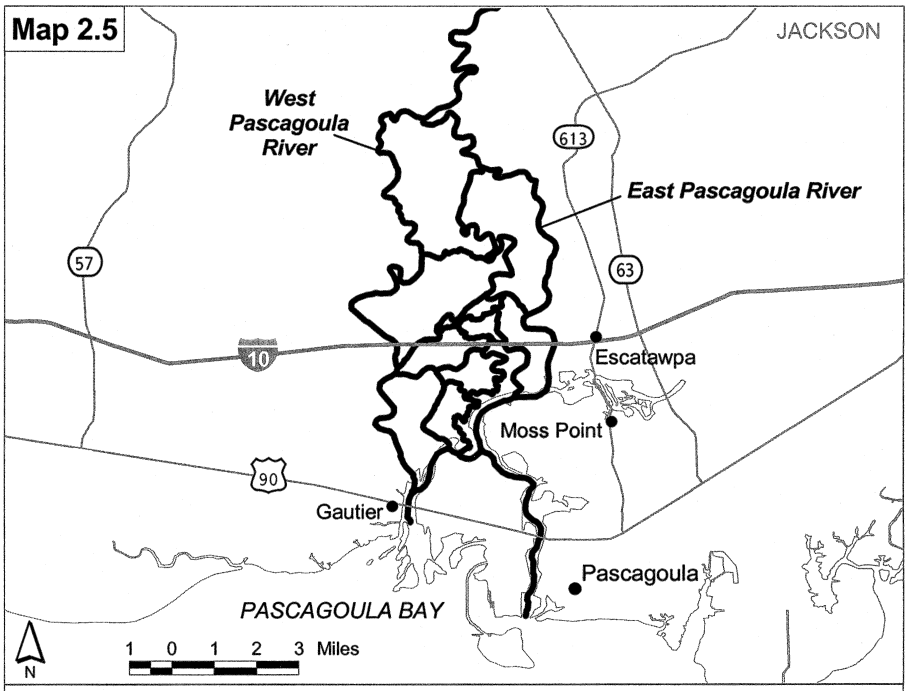
This map is provided only for illustrative purposes of Gulf Sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.



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.



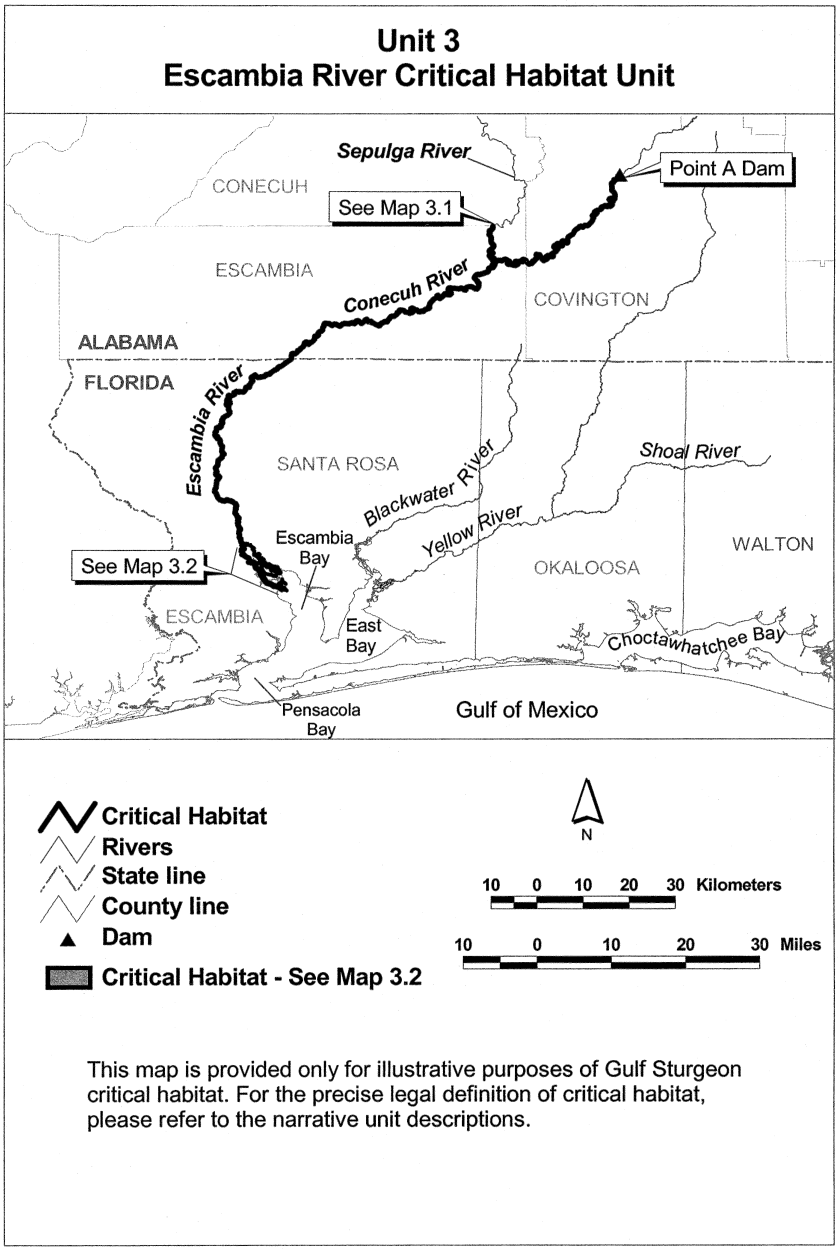
This map is provided only for illustrative purposes of Gulf Sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

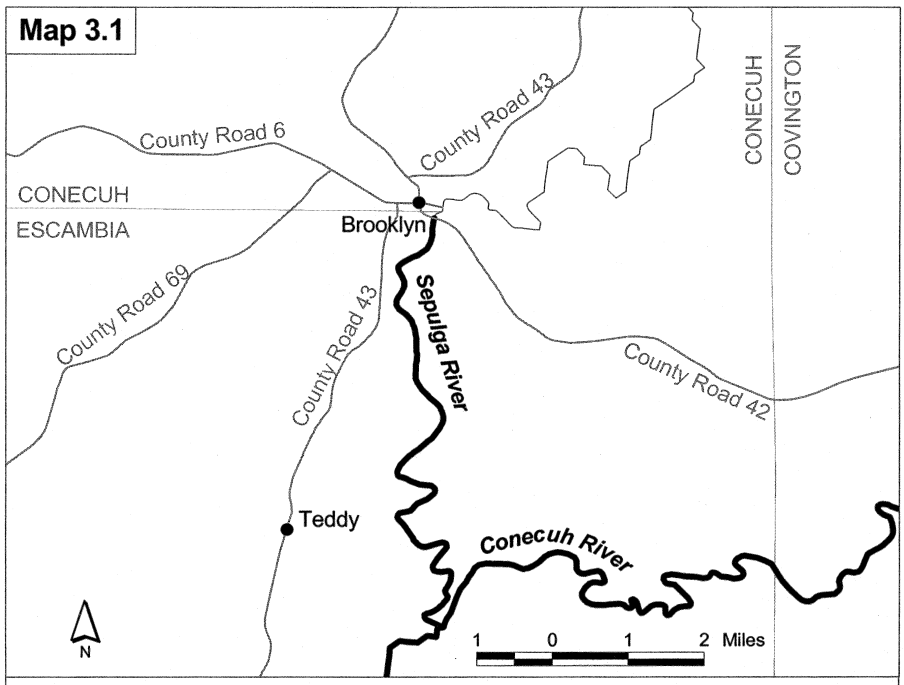


(7) *Unit 3:* Escambia River System in Santa Rosa and Escambia Counties, Florida and Escambia, Conecuh, and Covington Counties, Alabama.

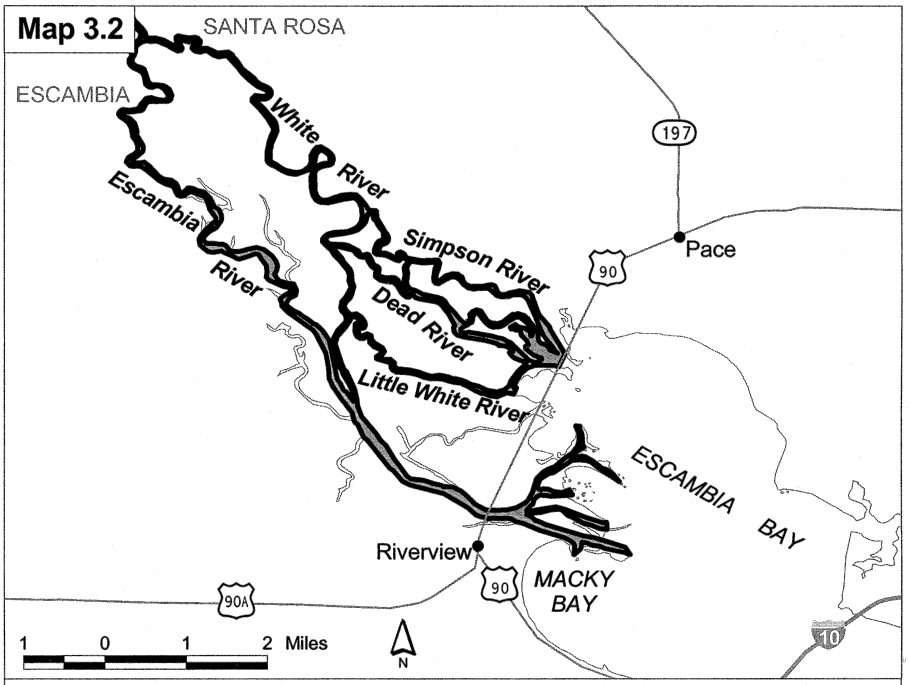
(i) Unit 3 includes the Conecuh River main stem beginning just downstream of the spillway of Point A Dam, Covington County, Alabama, downstream to the Florida State line, where its name changes to the Escambia River, Escambia County, Alabama, and Escambia and Santa Rosa Counties, Florida. It includes 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.



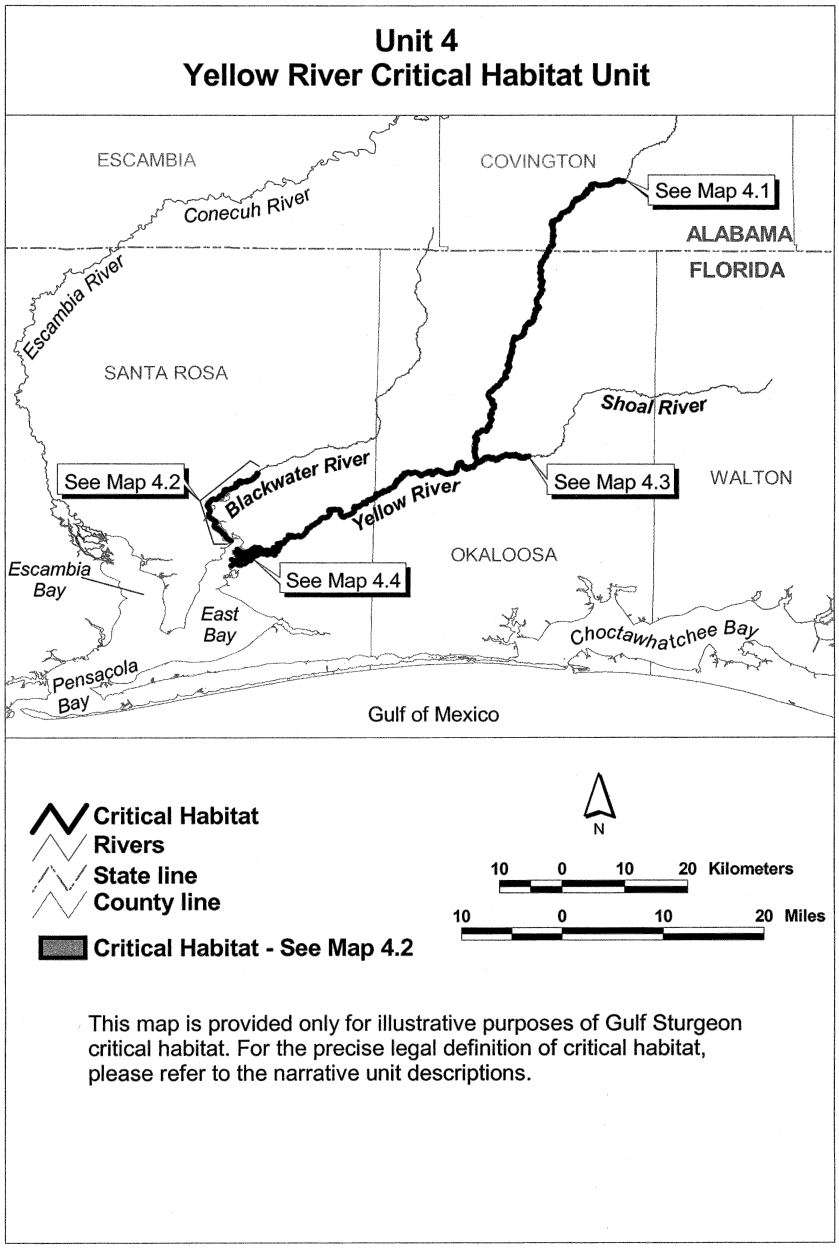
This map is provided only for illustrative purposes of Gulf Sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

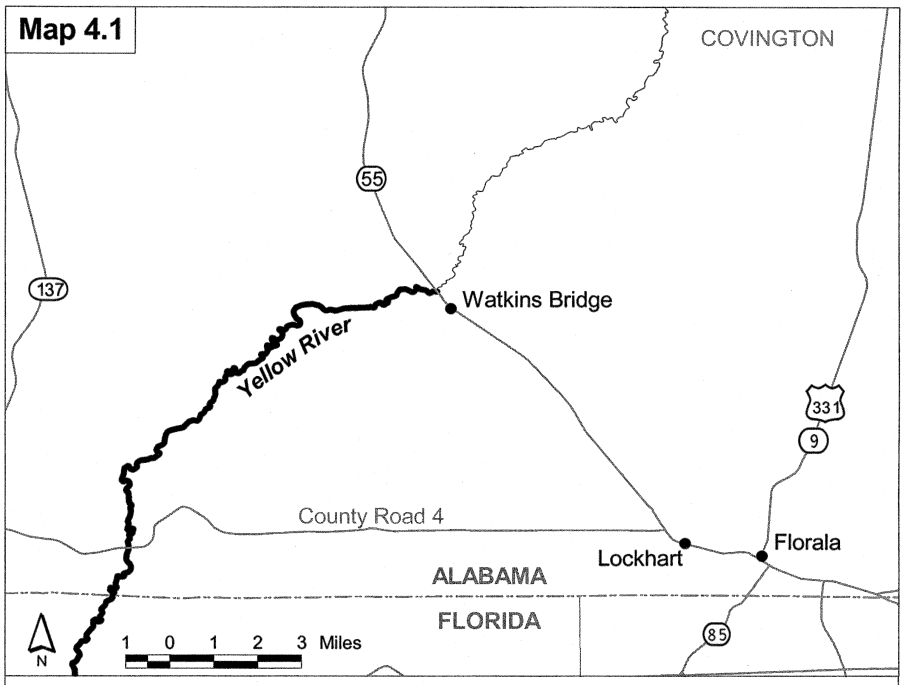


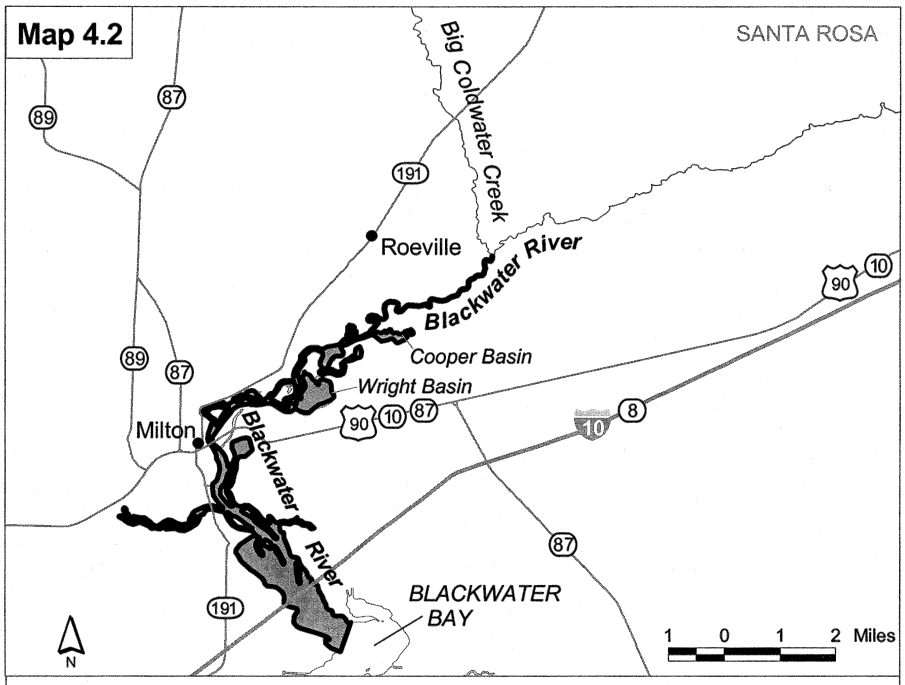
(8) *Unit 4:* Yellow River System in Santa Rosa and Okaloosa Counties, Florida and Covington County, Alabama.

(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.

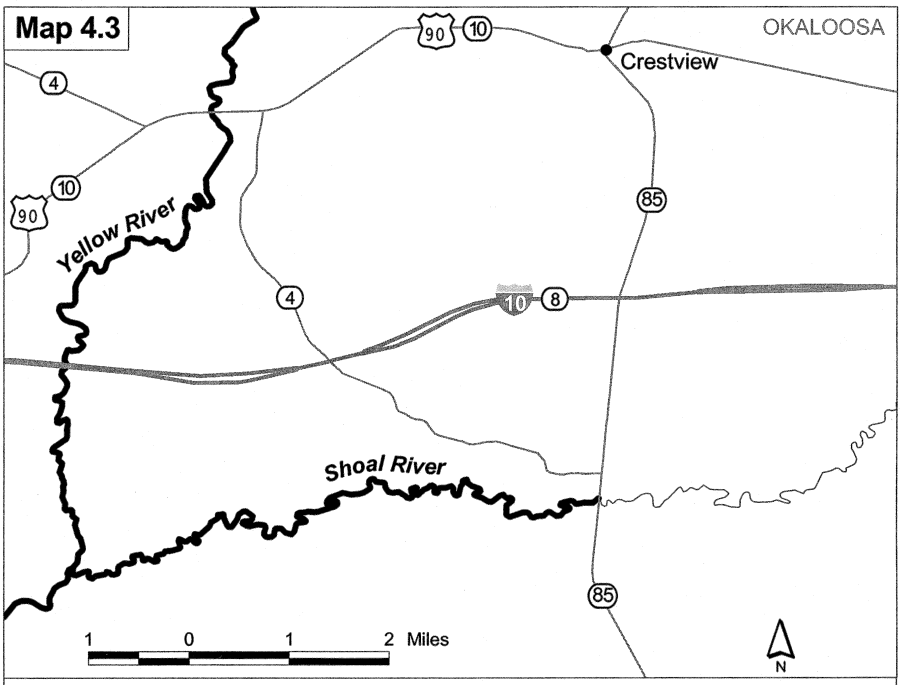
(ii) Maps of Unit 4 follow:


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.

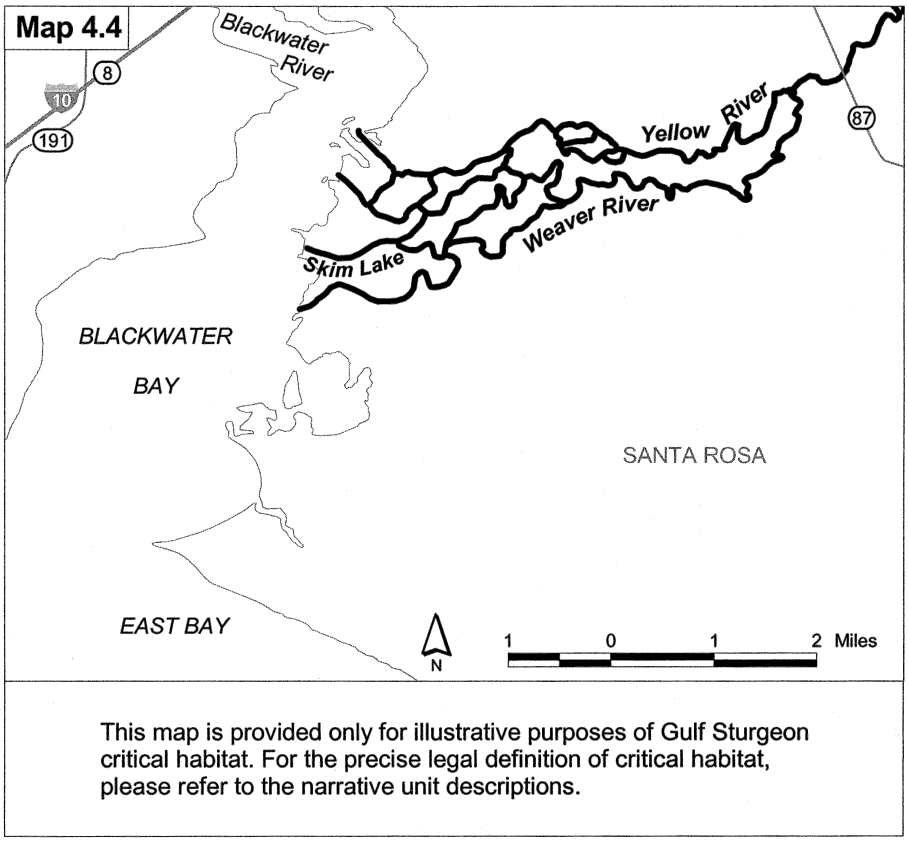

Map 4.1
COVINGTON
55
137
Watkins Bridge
Yellow River
331
9
County Road 4
Lockhart
Florala
ALABAMA
FLORIDA
85
N
1 0 1 2 3 Miles
This map is provided only for illustrative purposes of Gulf Sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit 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.



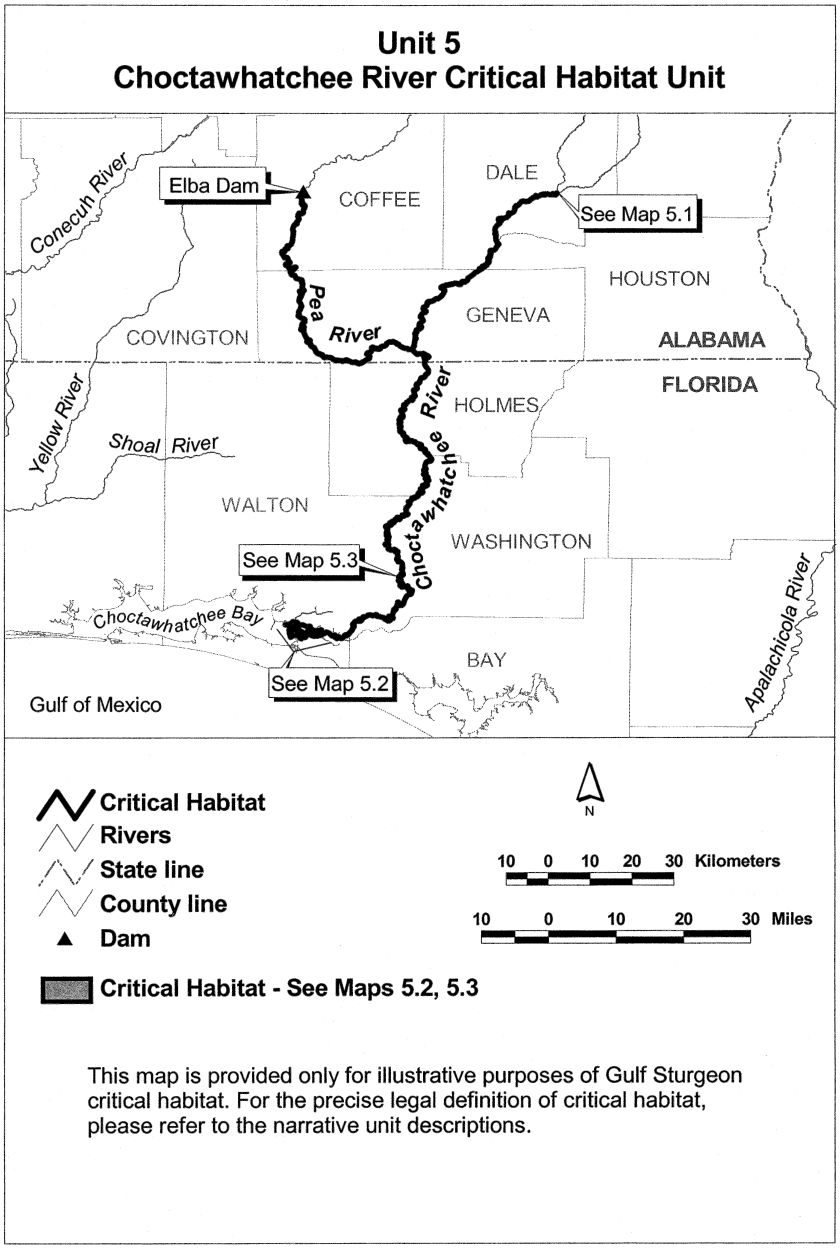
This map is provided only for illustrative purposes of Gulf Sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

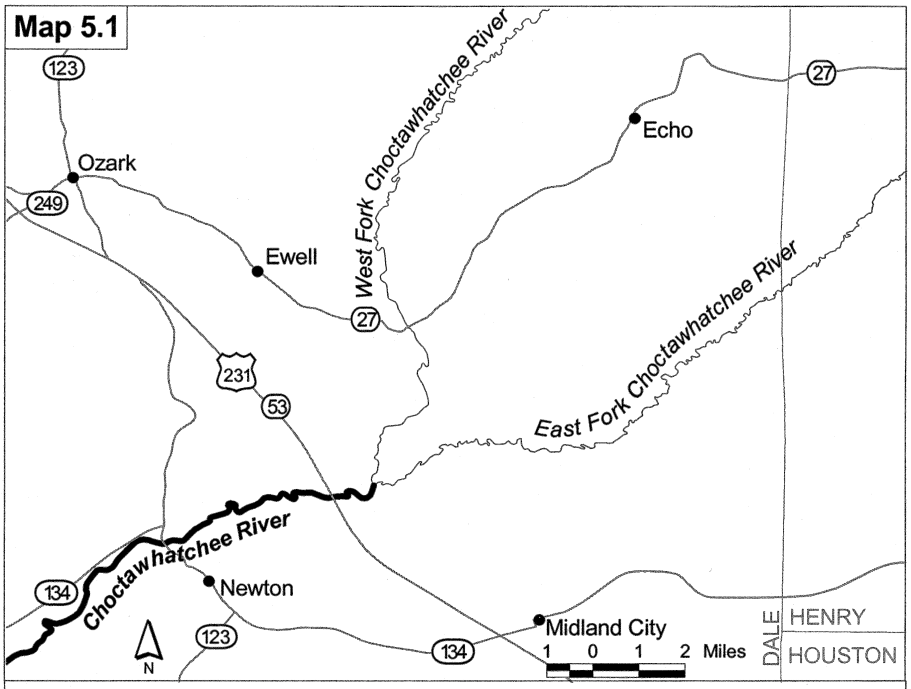


(9) *Unit 5:* Choctawhatchee River System in Holmes, Washington, and Walton Counties, Florida and Dale, Coffee, Geneva, and Houston Counties, Alabama.

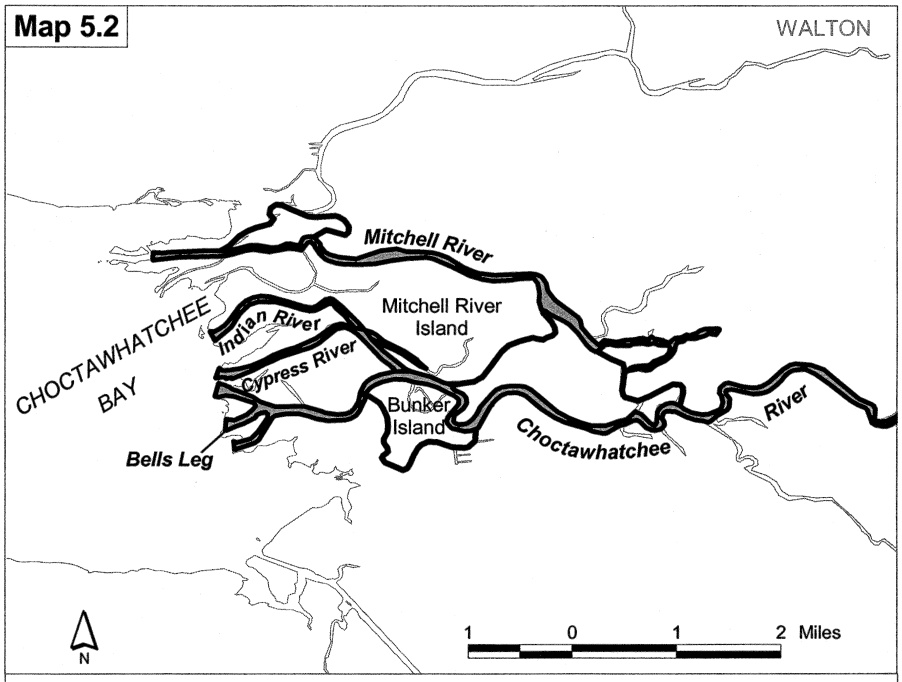
(i) Unit 5 includes the Choctawhatchee River main stem from its confluence with the west and east fork of the Choctawhatchee River, Dale County, Alabama, downstream to its discharge at Choctawhatchee Bay, Walton County, Florida. The distributaries discharging into Choctawhatchee Bay known as Mitchell 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:

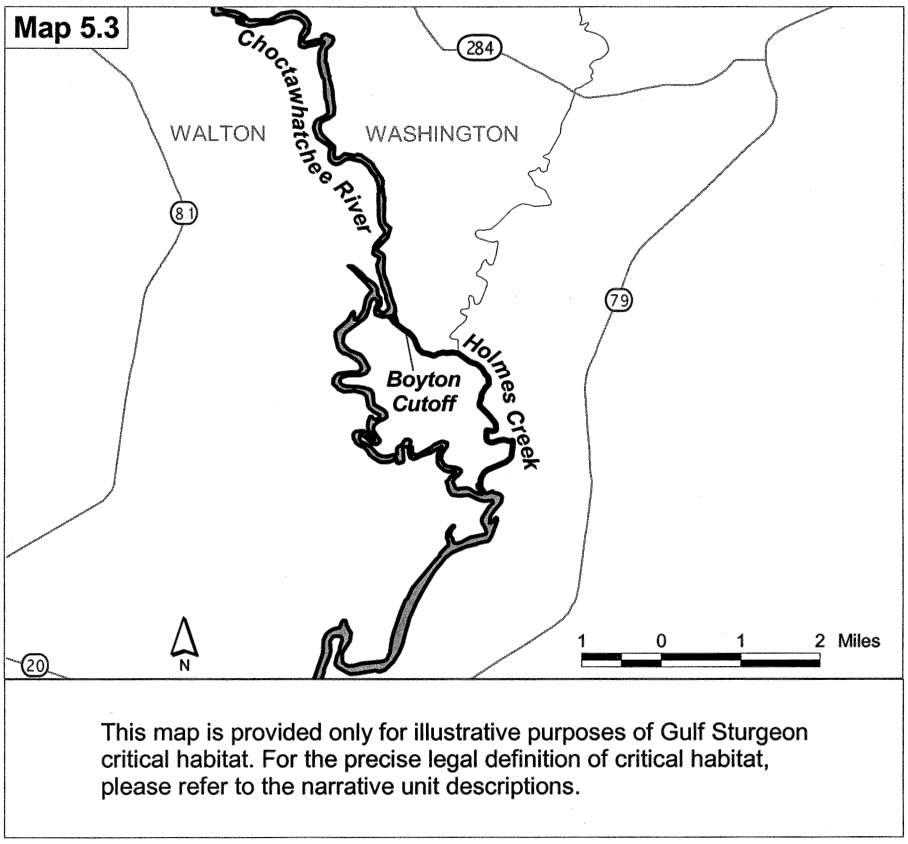

Unit 5
Choctawhatchee River Critical Habitat Unit
Elba Dam
COFFEE
DALE
See Map 5.1
HOUSTON
Conecuh River
Pea River
GENEVA
COVINGTON
ALABAMA
FLORIDA
Yellow River
Shoal River
HOLMES
Choctawhatchee River
WALTON
WASHINGTON
See Map 5.3
Choctawhatchee Bay
BAY
See Map 5.2
Gulf of Mexico
Apalachicola River
Critical 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.



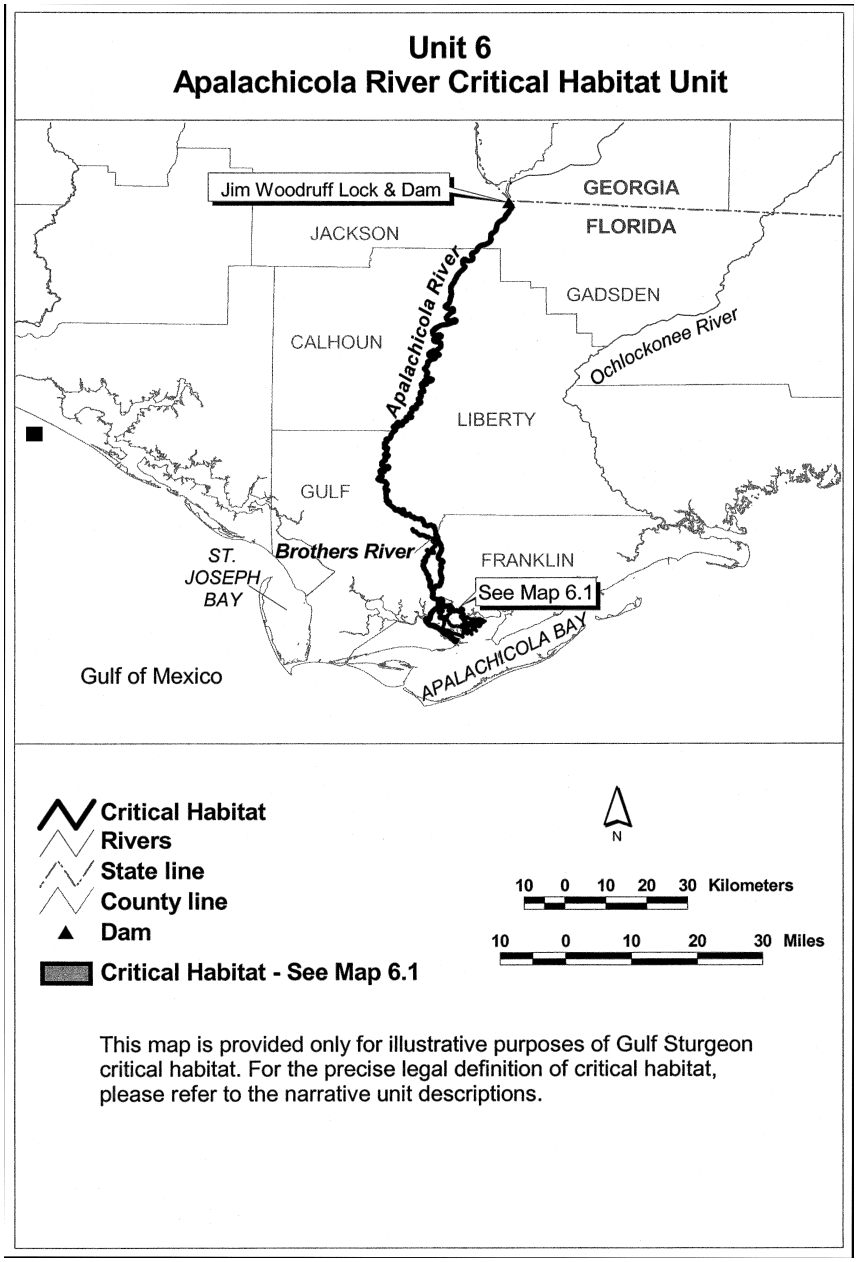
This map is provided only for illustrative purposes of Gulf Sturgeon critical habitat. For the precise legal definition of critical habitat, please refer to the narrative unit descriptions.

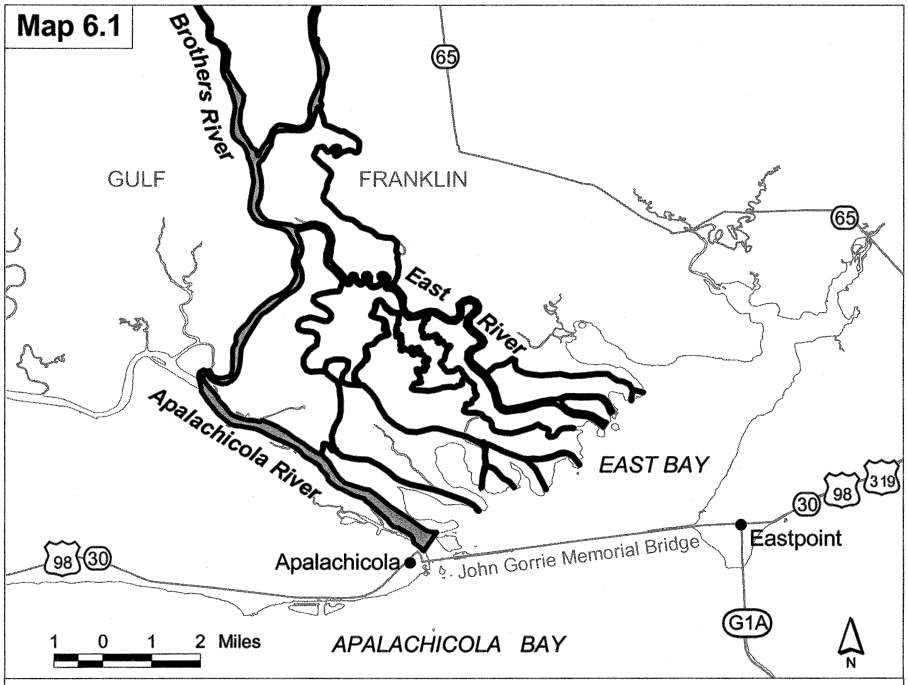


(10) *Unit 6:* Apalachicola River System in Franklin, Gulf, Liberty, Calhoun, Jackson, and Gadsen Counties, Florida.

(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:

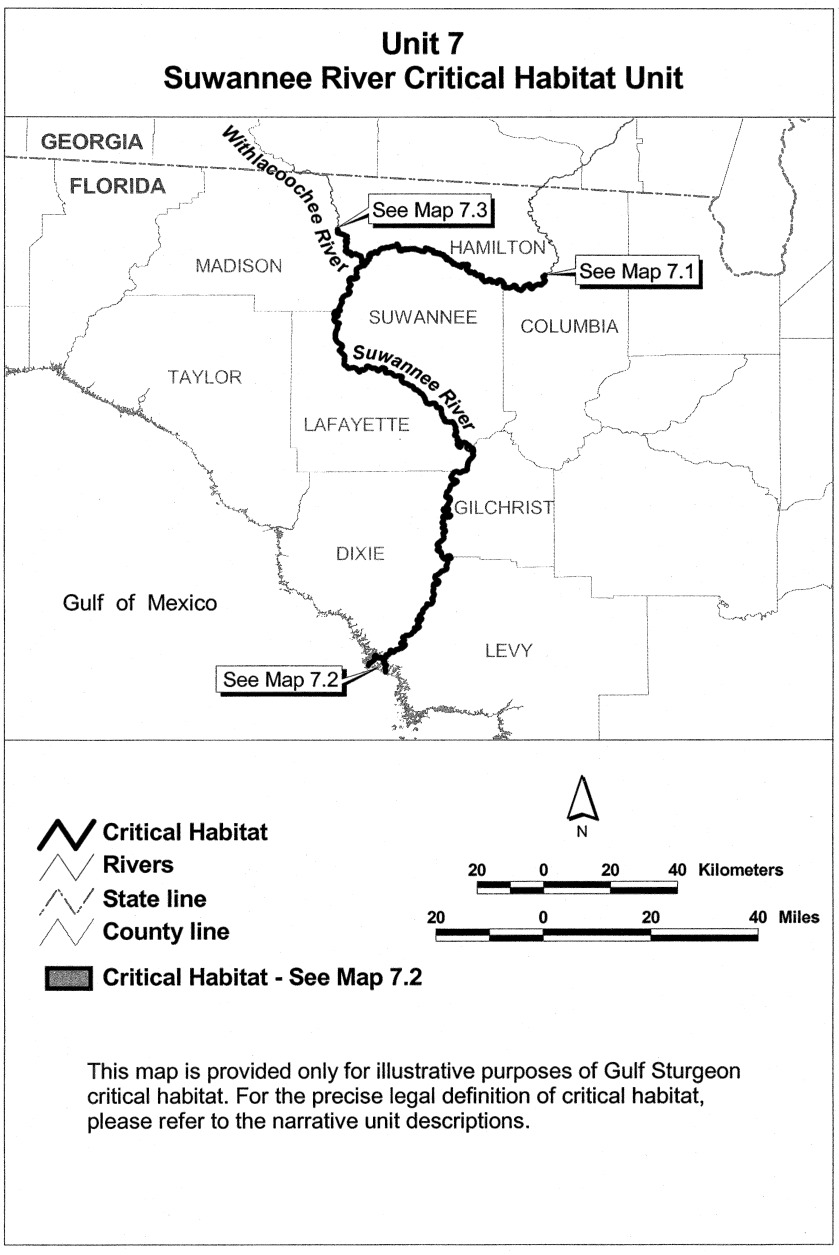

Unit 6
Apalachicola River Critical Habitat Unit
Jim Woodruff Lock & Dam
GEORGIA
FLORIDA
JACKSON
GADSDEN
CALHOUN
Apalachicola River
Ochlockonee River
LIBERTY
GULF
Brothers River
ST. JOSEPH BAY
FRANKLIN
See Map 6.1
APALACHICOLA BAY
Gulf of Mexico
Critical Habitat
Rivers
State line
County line
Dam
Critical 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.

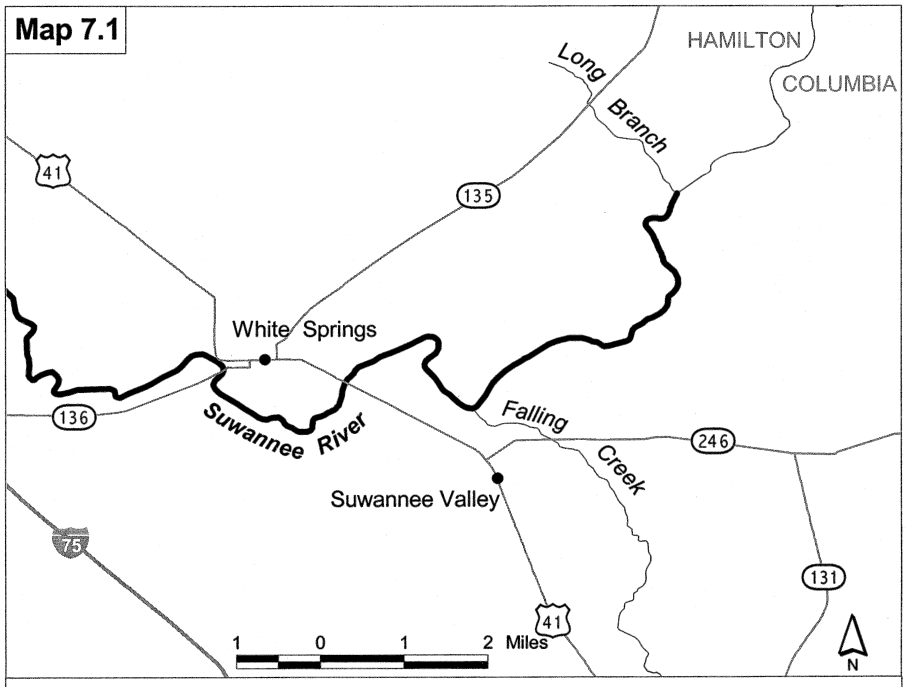


(11) *Unit 7:* Suwannee River System in Hamilton, Suwannee, Madison, Lafayette, Gilchrist, Levy, Dixie, and Columbia Counties, Florida.

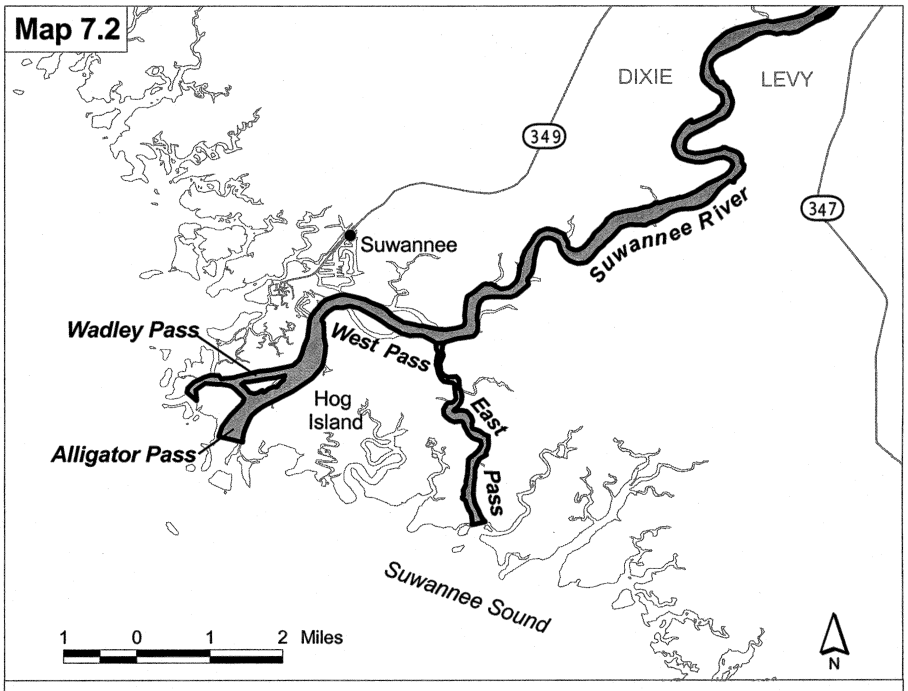
(i) Unit 7 includes the Suwannee River main stem, beginning from its confluence with Long Branch Creek, Hamilton County, Florida, downstream to the mouth of the Suwannee River. It includes all the Suwannee River distributaries, including the East Pass, West Pass, Wadley Pass, and Alligator Pass, Dixie 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:

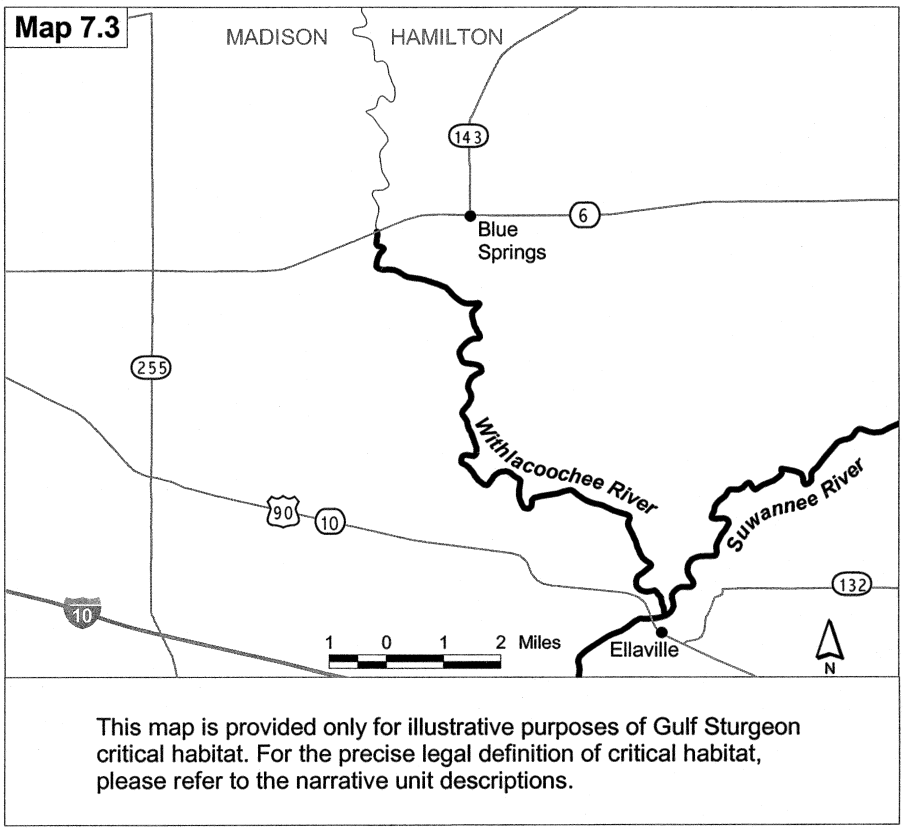

Unit 7
Suwannee River Critical Habitat Unit
GEORGIA
FLORIDA
Withlacoochee River
See Map 7.3
HAMILTON
See Map 7.1
MADISON
SUWANNEE
COLUMBIA
Suwannee River
TAYLOR
LAFAYETTE
GILCHRIST
DIXIE
Gulf of Mexico
LEVY
See Map 7.2
Critical Habitat
Rivers
State line
County line
Critical Habitat - See Map 7.2
N
20 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.



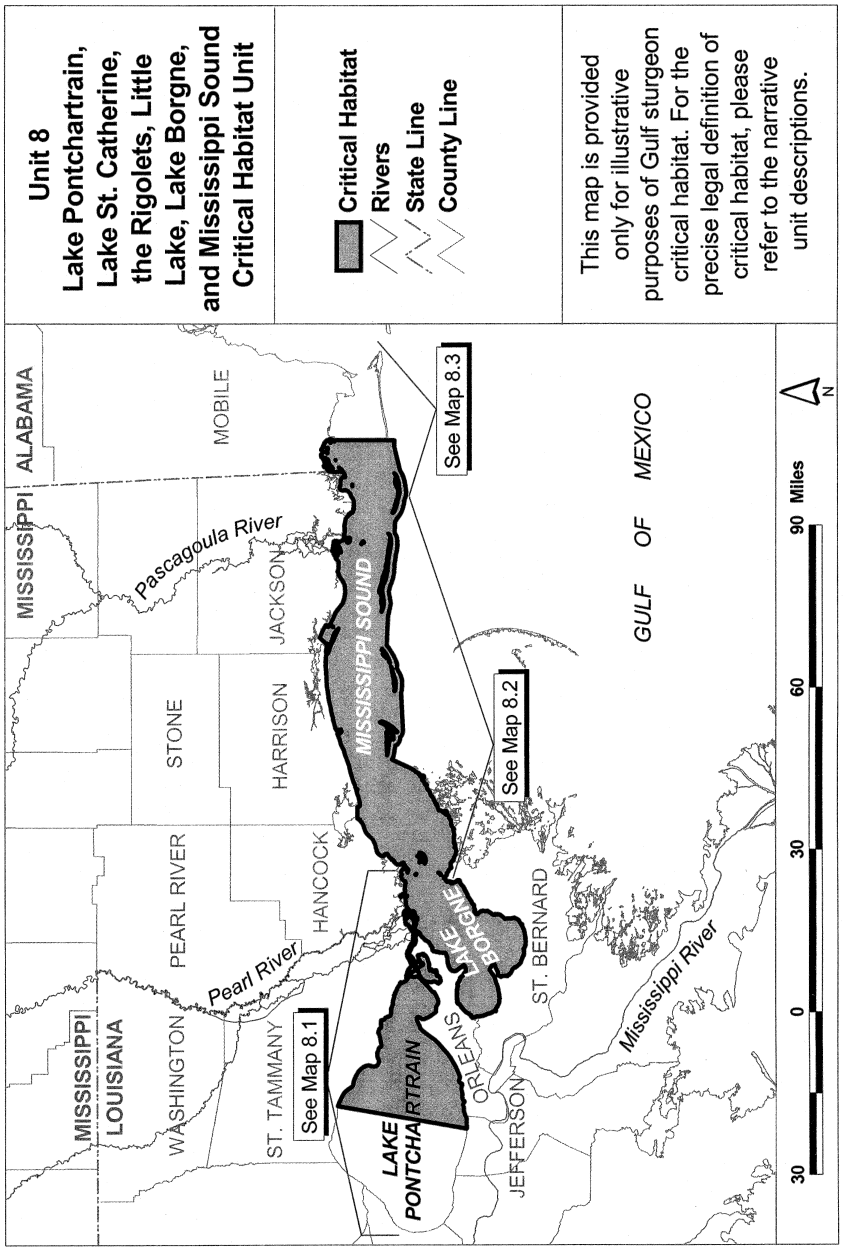
(12) *Unit 8:* Lake Pontchartrain, Lake St. Catherine, The Rigolets, Little Lake, Lake Borgne, and Mississippi Sound in Jefferson, Orleans, St. Tammany, and St. Bernard Parish, Louisiana, Hancock, Jackson, and Harrison Counties in Mississippi, and in Mobile County, Alabama.

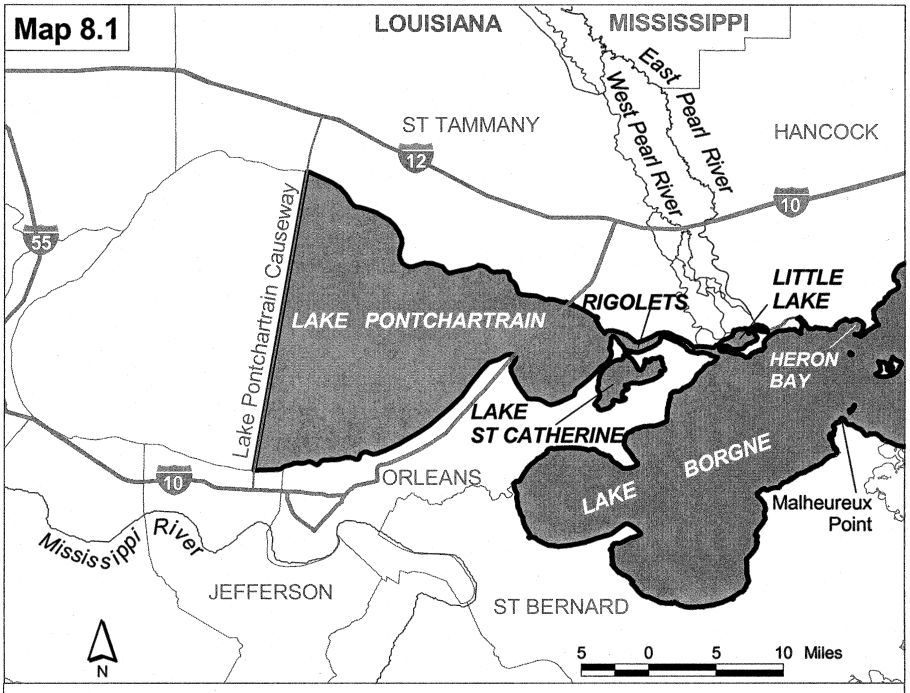
(i) Unit 8 encompasses Lake Pontchartrain east of the Lake Pontchartrain Causeway, all of Little Lake, The Rigolets, Lake St. Catherine, Lake Borgne, including Heron Bay, and the Mississippi Sound. Critical habitat follows the shorelines around the perimeters of each included lake. The Mississippi Sound 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.

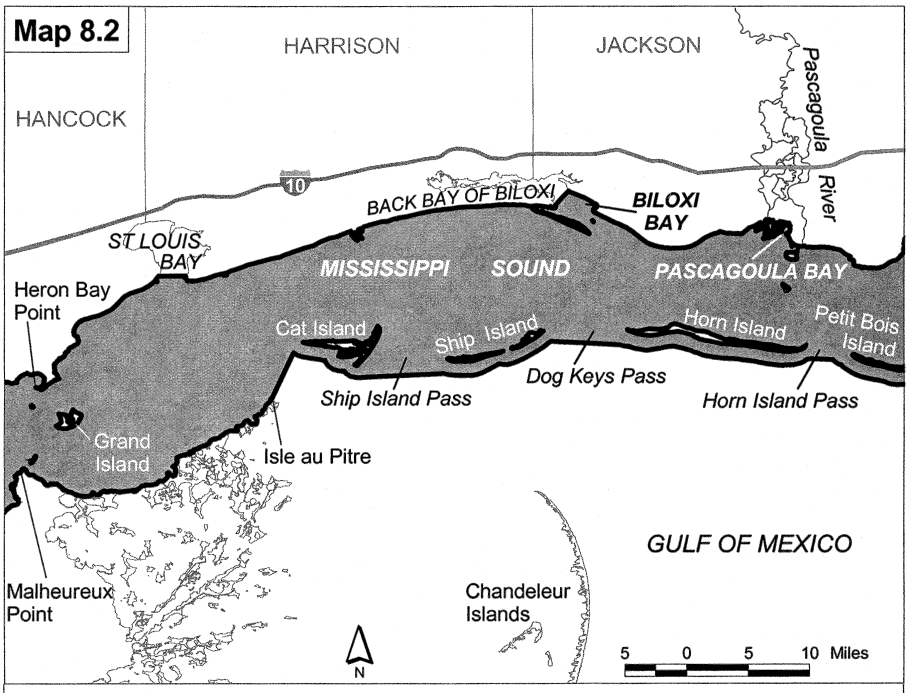
(ii) Major shipping channels in this unit, as identified on standard navigation charts and marked by buoys, are excluded under section 4(b)(2) of the Act.

(iii) Maps of Unit 8 follow:

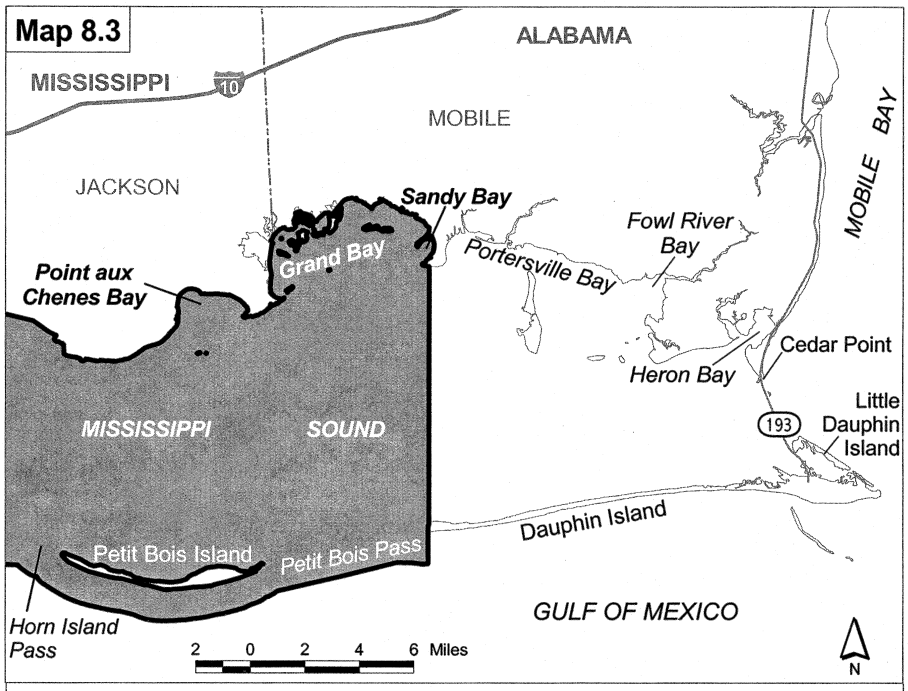

Unit 8
Lake Pontchartrain, Lake St. Catherine, the Rigolets, Little Lake, Lake Borgne, and Mississippi Sound Critical Habitat Unit
Critical Habitat
Rivers
State Line
County Line
This map is provided only for illustrative purposes of Gulf sturgeon critical habitat. For the precise legal definition of 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
GULF OF MEXICO
See Map 8.1
See Map 8.2
See Map 8.3
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.

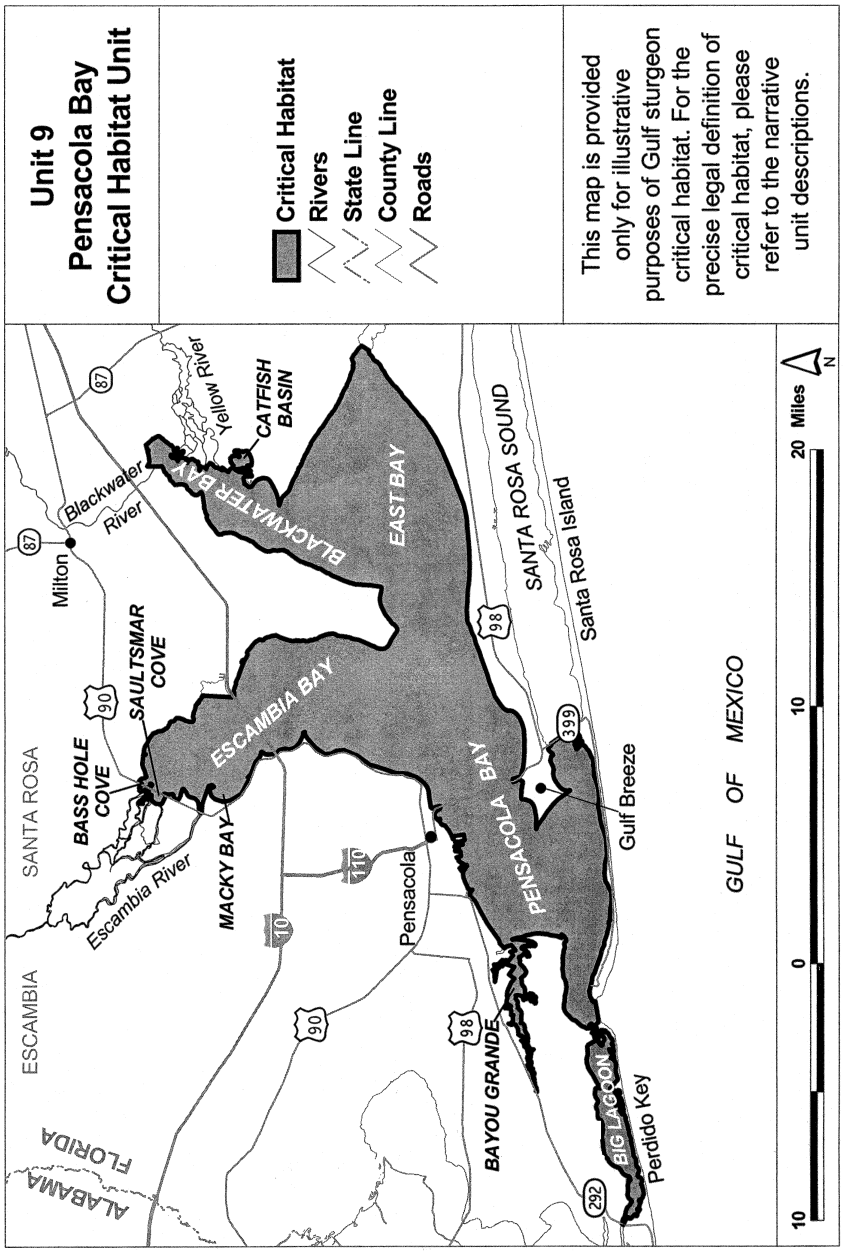


(13) *Unit 9:* Pensacola Bay System in Escambia and Santa Rosa Counties, Florida.

(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:

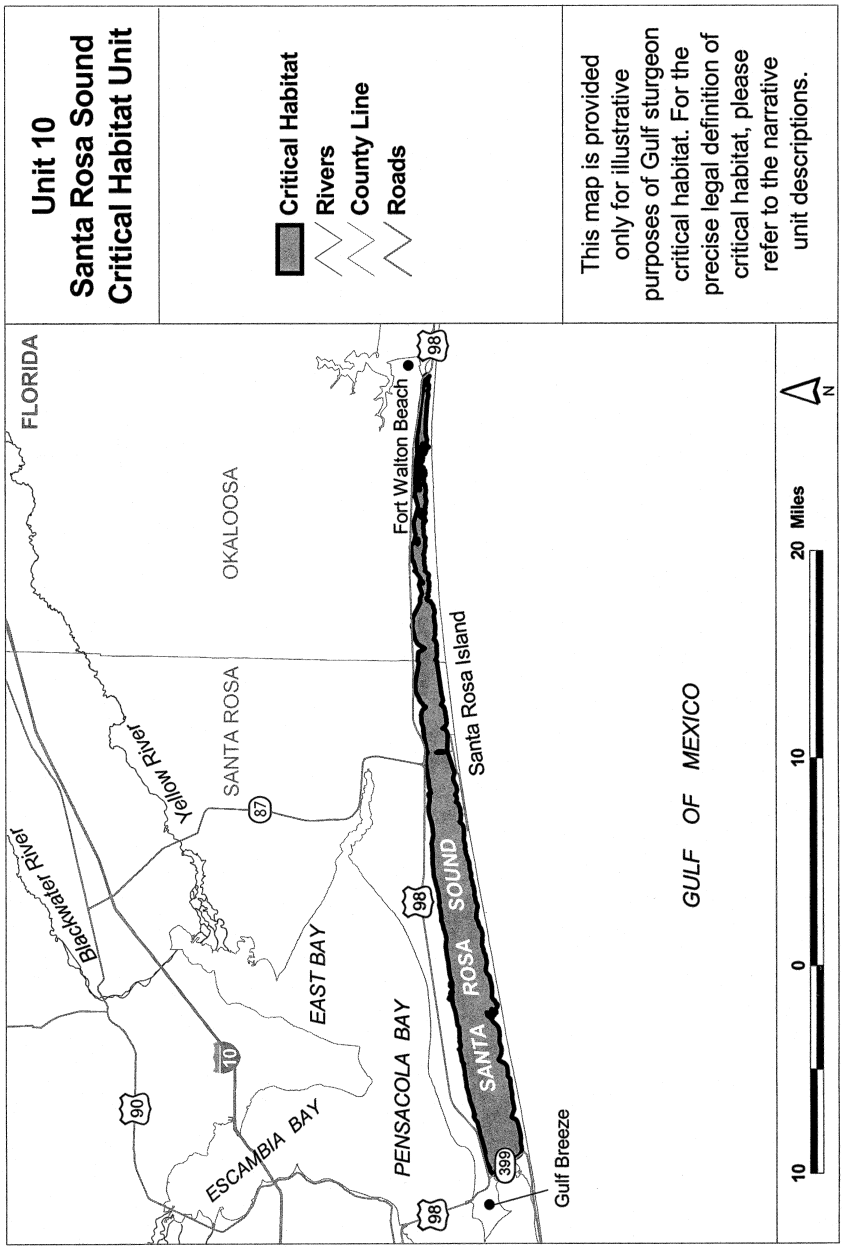


(14) *Unit 10:* Santa Rosa Sound in Escambia, Santa Rosa, and Okaloosa Counties, Florida.

(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.

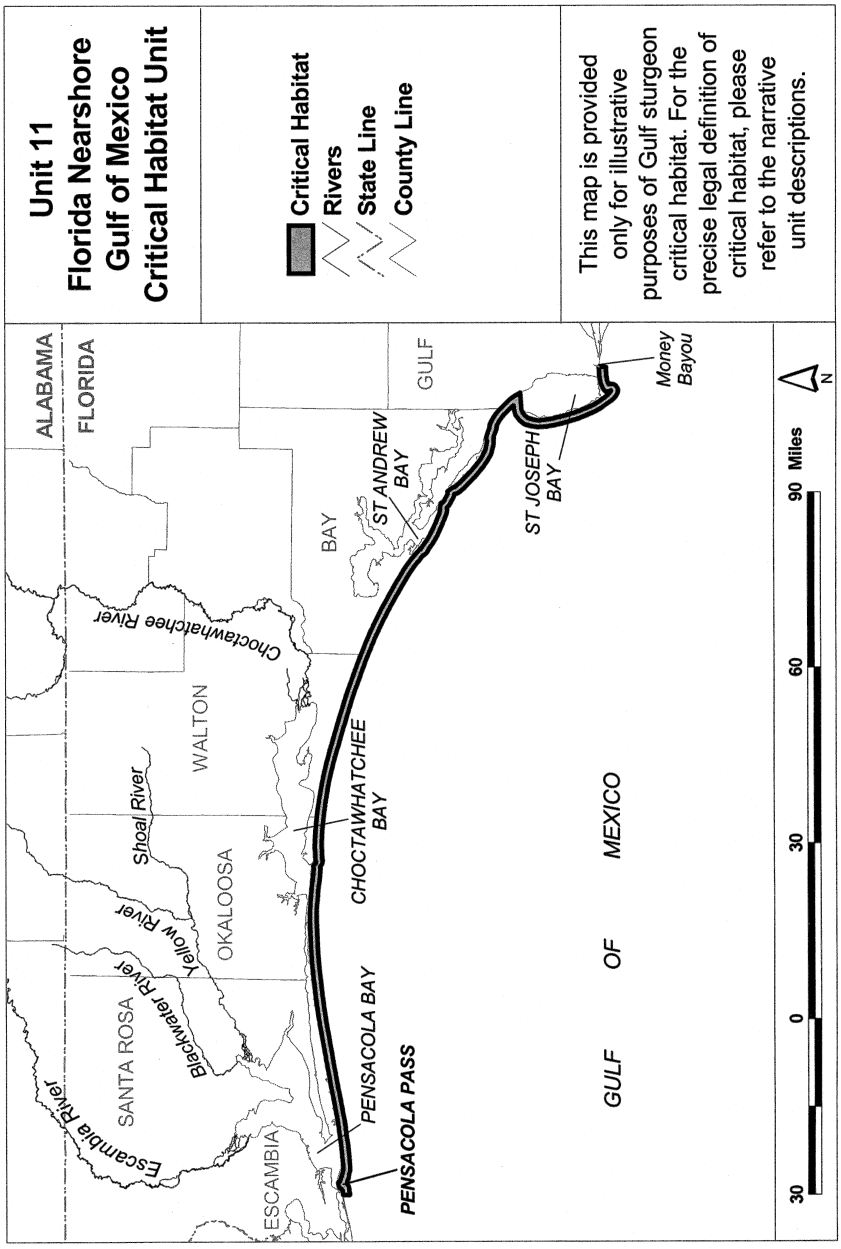
(ii) A Map of Unit 10 follows:



(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:

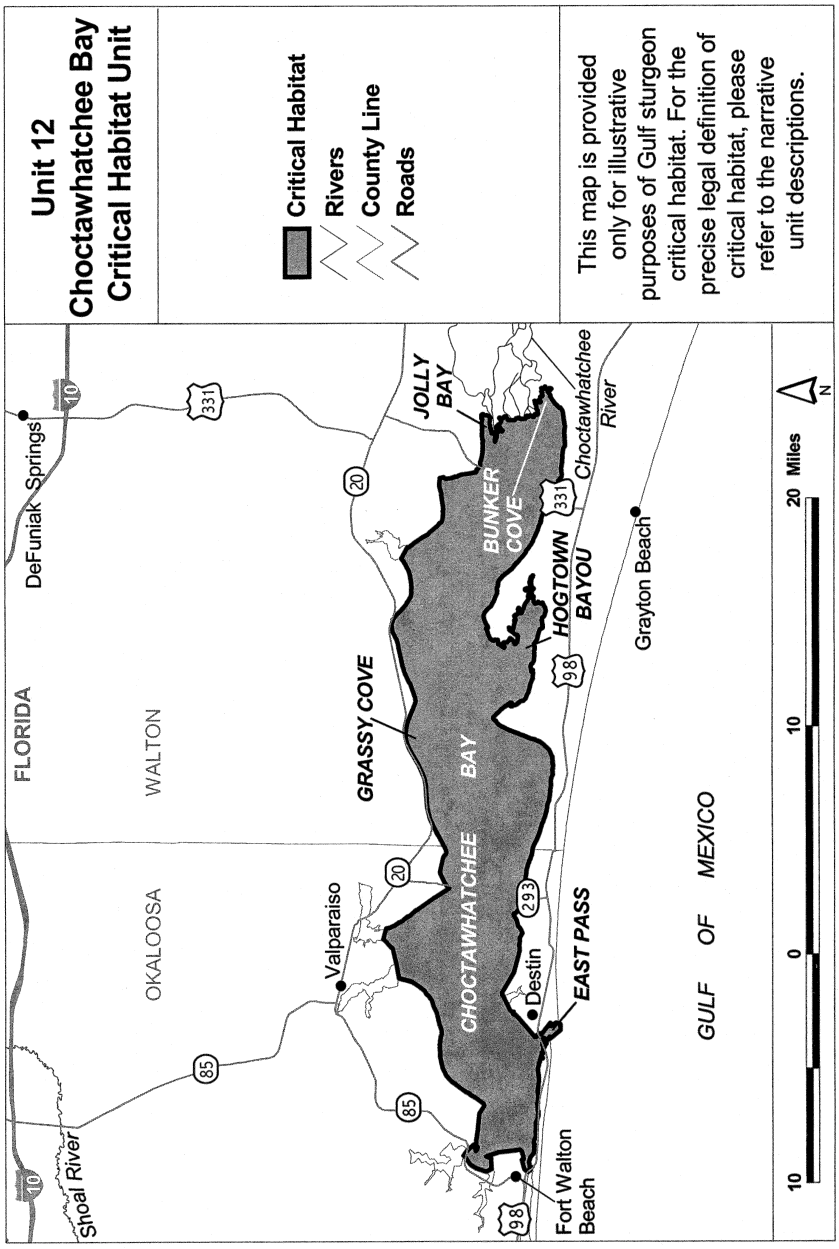


(16) *Unit 12:* Choctawhatchee Bay in Okaloosa and Walton Counties, Florida.

(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.

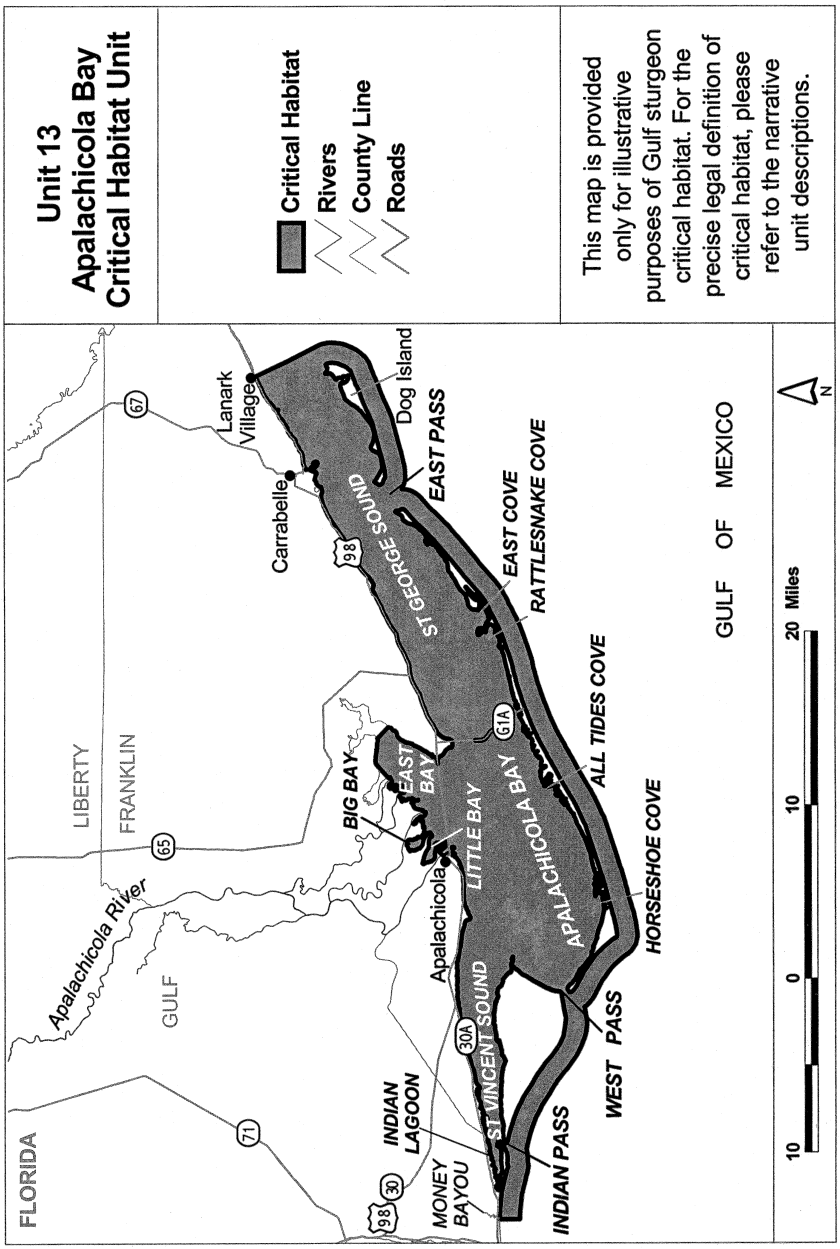
(ii) A Map of Unit 12 follows:



(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:

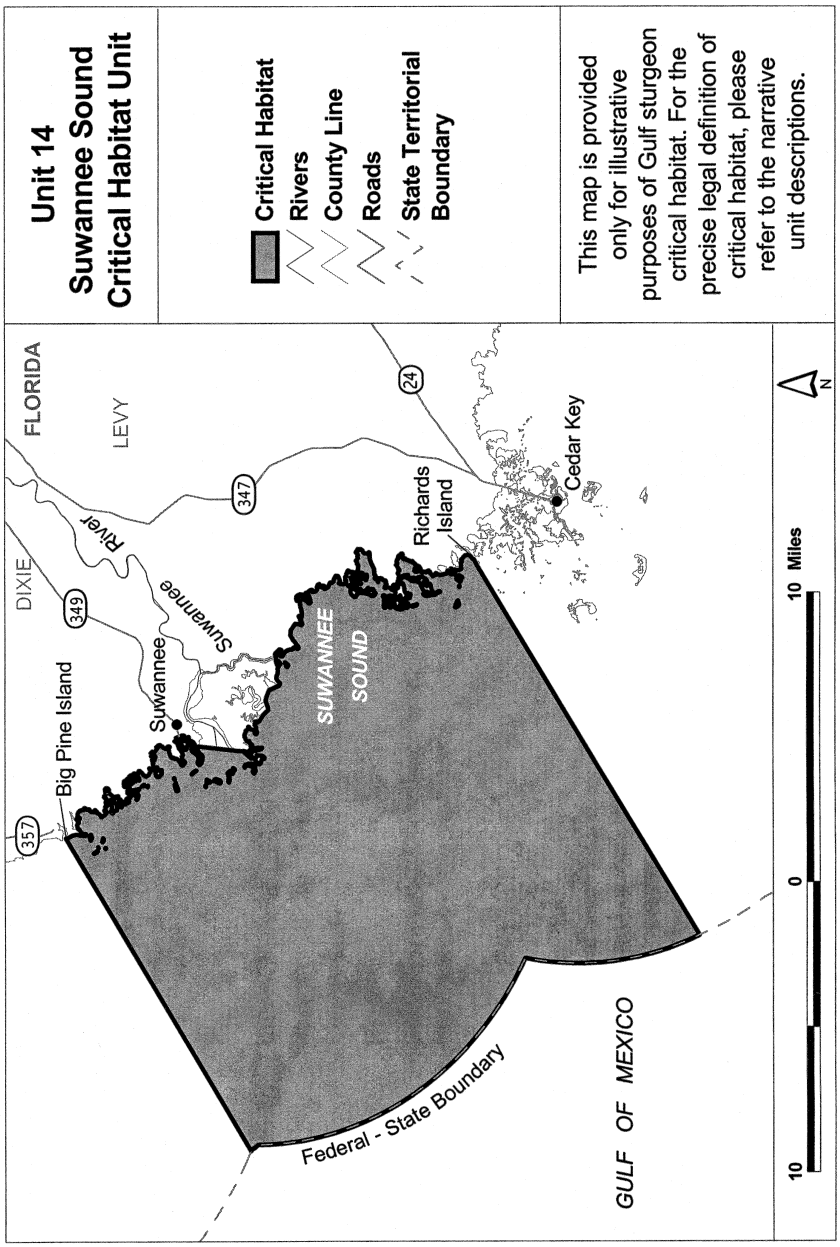


(18) *Unit 14:* Suwannee Sound in Dixie and Levy Counties, Florida.

(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.

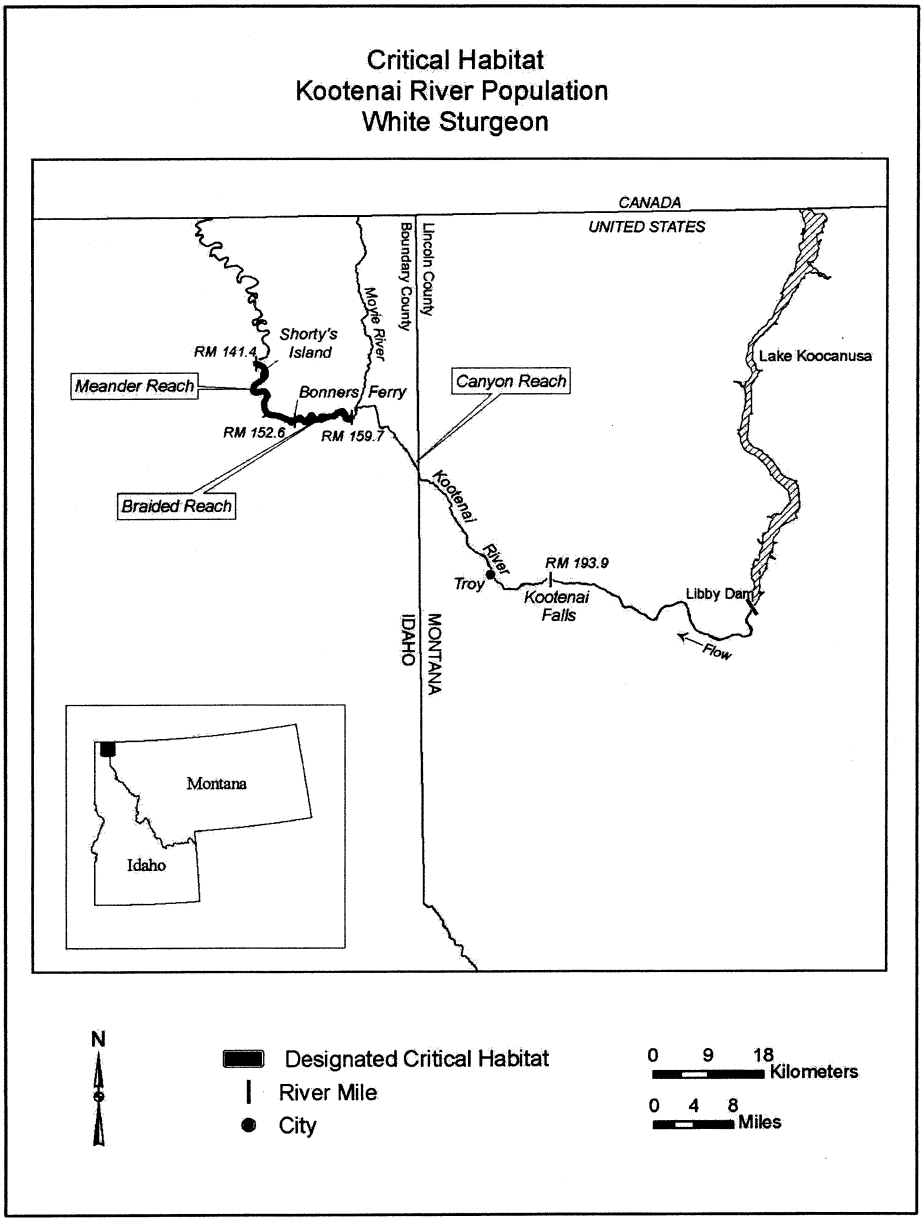
(ii) A flow regime, during the spawning season of May through June, that approximates natural variable conditions and is capable of producing mean water column velocities of 3.3 feet per second (ft/s) (1.0 meters per second (m/s)) or greater when natural conditions (for example, weather patterns, water 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.

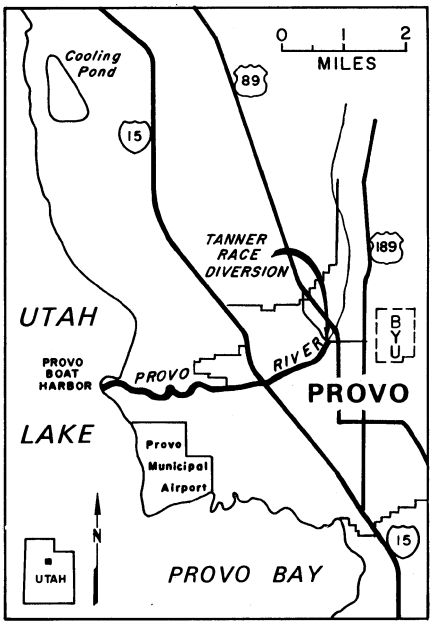
(3) Map of critical habitat follows:



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: The map provided is for informational purposes only. 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.

LOST RIVER SUCKER (*Deltistes luxatus*)

(1) Critical habitat units are depicted for Klamath and Lake Counties, Oregon, and Modoc County, California, on the maps below.

(2) Within these areas, the primary constituent elements of the physical or biological features essential to the conservation of Lost River sucker consist of three components:

(i) *Water*. Areas with sufficient water quantity and depth within lakes, reservoirs, streams, marshes, springs, groundwater sources, and refugia habitats with minimal physical, biological, or chemical impediments to connectivity. Water must have varied depths to accommodate each life stage: Shallow water (up to 3.28 ft (1.0 m)) for larval life stage, and deeper water (up to 14.8 ft (4.5 m)) for older life stages. The water quality characteristics should include water temperatures of less than 82.4 °Fahrenheit (28.0 °Celsius); pH less than 9.75; dissolved oxygen levels greater than 4.0 mg per L; low levels of microcystin; and un-ionized ammonia (less than 0.5 mg per L). Elements also include natural flow regimes that provide flows during the appropriate time of year or, if flows are controlled, minimal flow departure from a natural hydrograph.

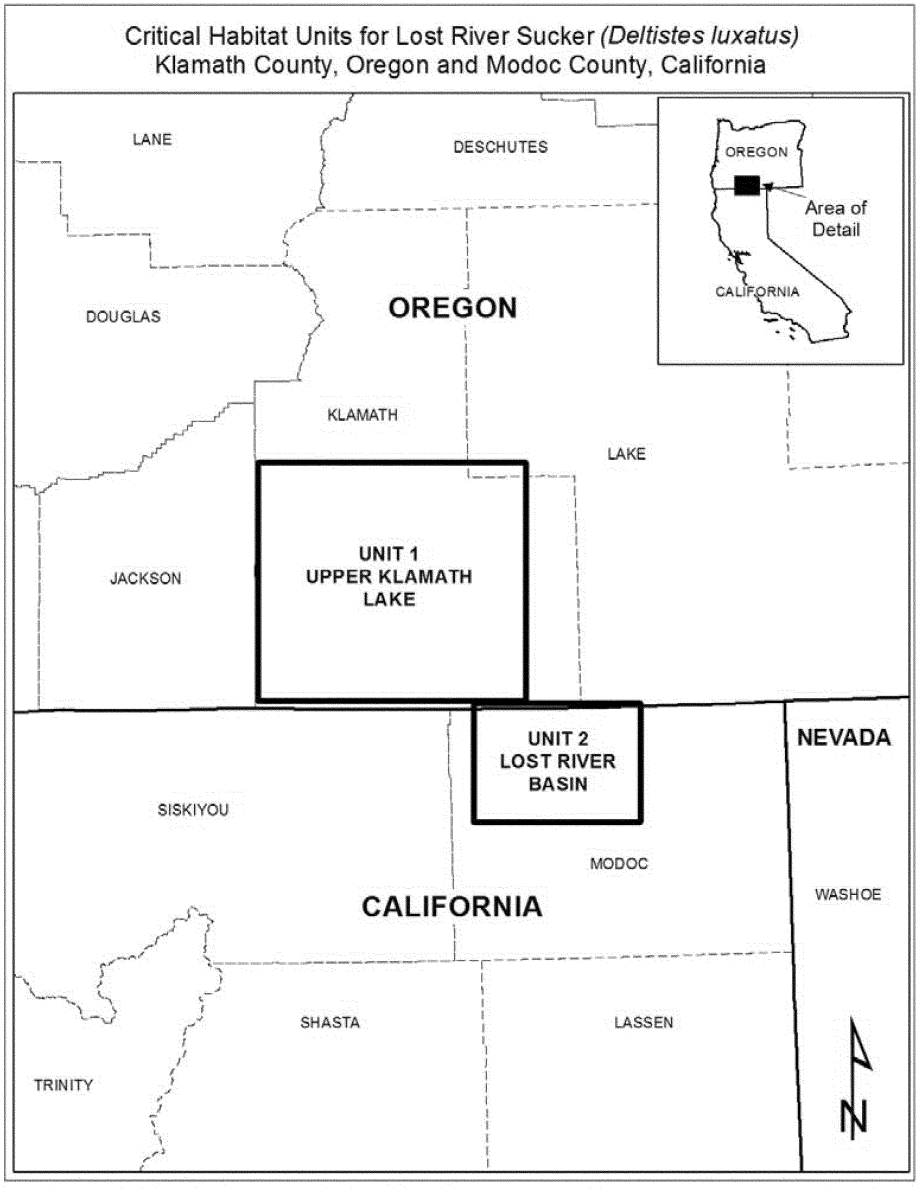
(ii) *Spawning and rearing habitat*. Streams and shoreline springs with gravel and cobble substrate at depths typically less than 4.3 ft (1.3 m) with adequate stream velocity to allow spawning to occur. Areas containing emergent vegetation adjacent to open water, provides habitat for rearing and facilitates growth and survival of suckers, as well as protection from predation and protection from currents and turbulence.

(iii) *Food*. Areas that contain an abundant forage base, including a broad array of chironomidae, crustacea, and other aquatic macroinvertebrates.

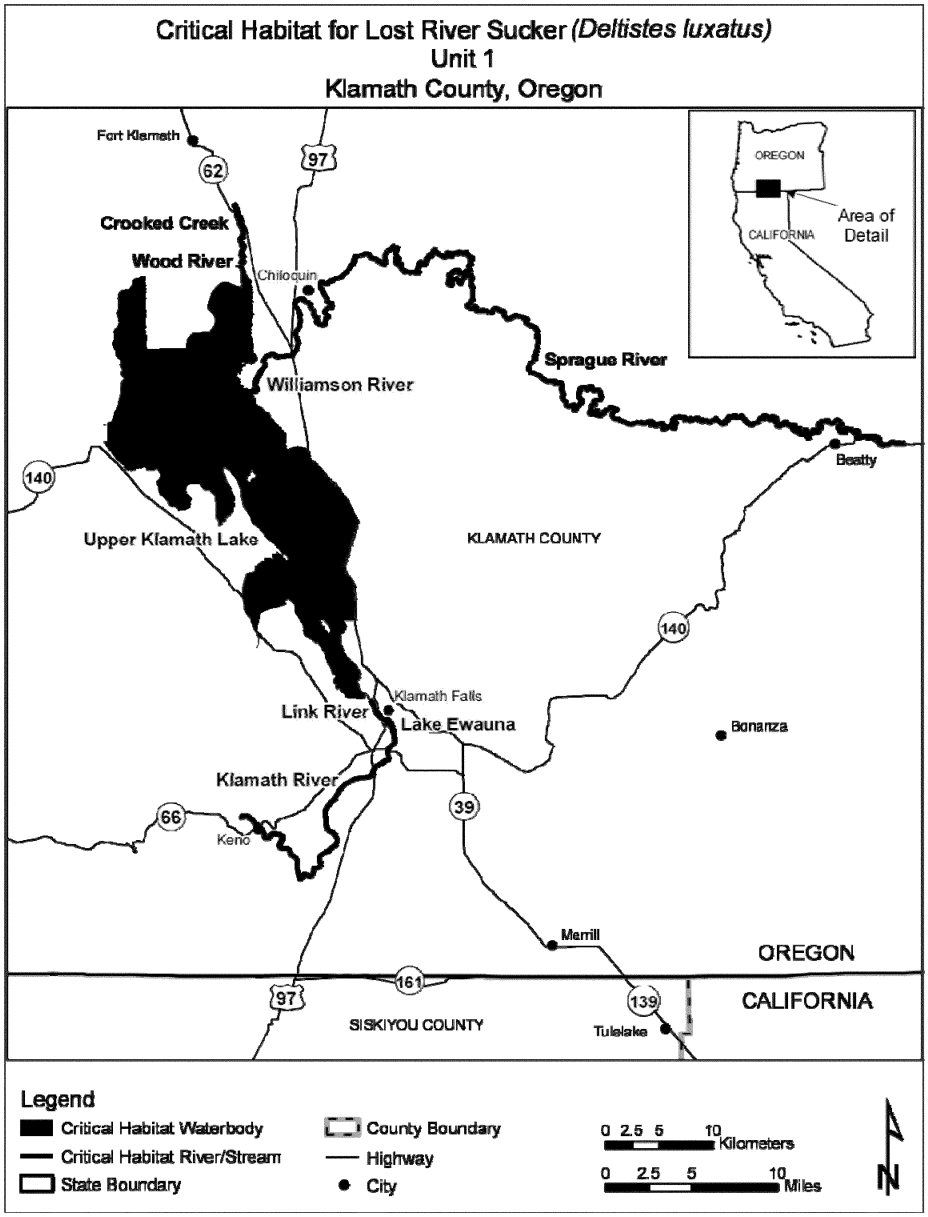
(3) Critical habitat does not include manmade structures (such as docks and bridges) and the land on which they are located existing within the legal boundaries on January 10, 2013.

(4) *Critical habitat map units*. Data layers defining map units were created on a base of the U.S. Geological Survey 2009 National Hydrography Dataset, and critical habitat was then mapped using North American Datum (NAD) 83, Universal Transverse Mercator Zone 10N coordinates. The maps in this entry establish the boundaries of the critical habitat designation. The coordinates or plot points or both on which each map is based are available to the public at the Service's Internet site, *http://www.fws.gov/klamathfallsfwo*, at *http://www.regulations.gov* at Docket No. FWS–R8–ES–2011–0097, and at the field office responsible for the designation. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2.

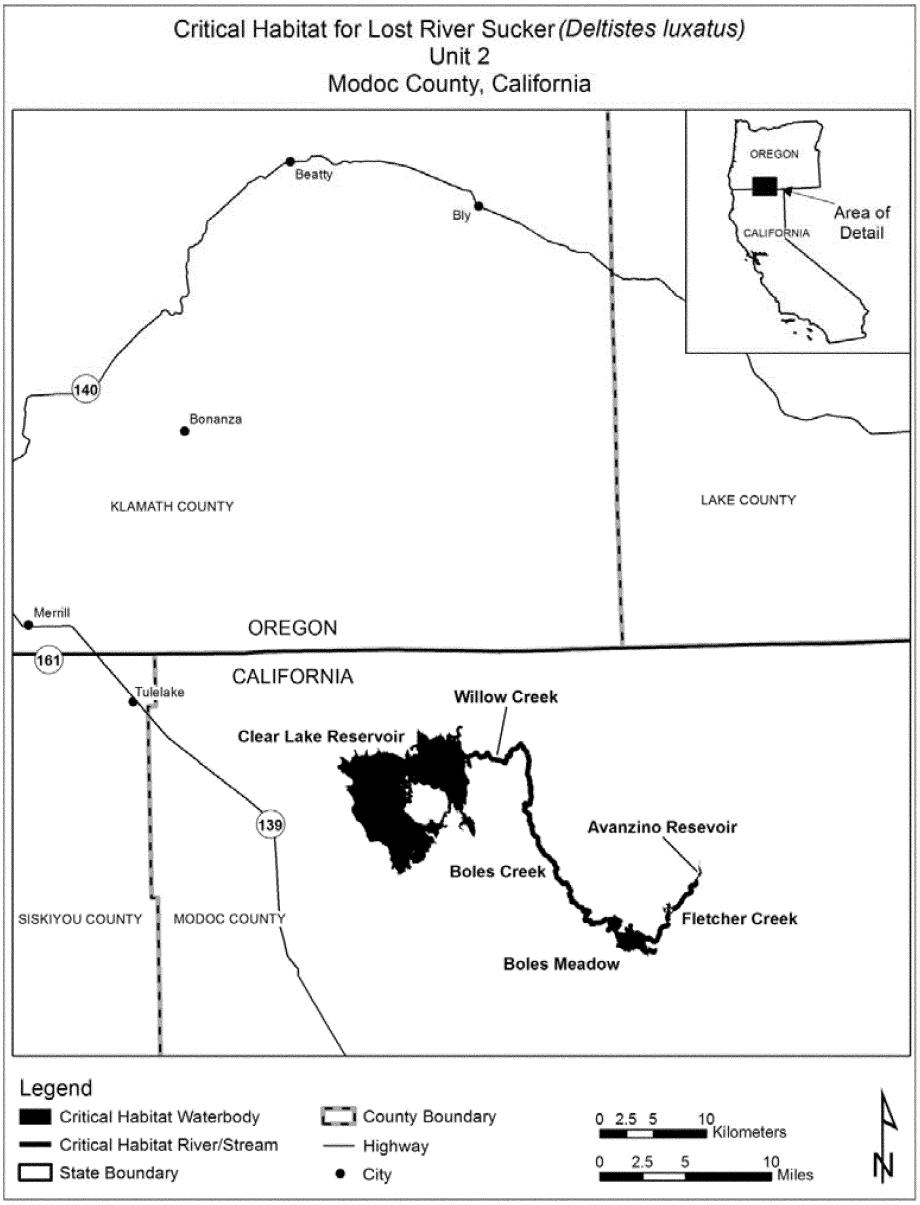
(5) NOTE: An index map for designated critical habitat units for the Lost River sucker follows:



(6) Unit 1: Upper Klamath Lake Unit, Klamath County, Oregon. NOTE: Map of Unit 1, Upper Klamath Lake Unit, of critical habitat for Lost River sucker follows:



(7) Unit 2: Lost River Basin Unit, Klamath County, Oregon. NOTE: Map of Unit 2, Lost River Basin Unit, of critical habitat for Lost River sucker follows:



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.

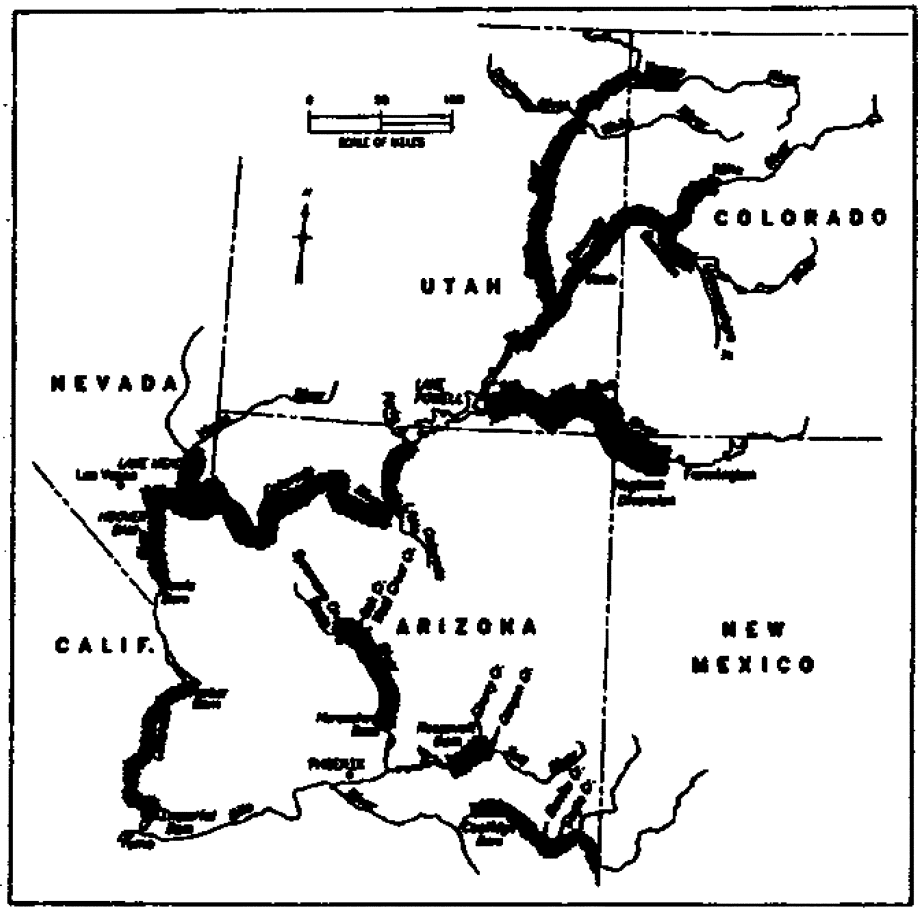
Arizona: Graham, Greenlee, Gila, and Pinal Counties. The Gila River and its 100-year flood plain from the Arizona-New Mexico border in T.8S., R.32E., sec. 34 (Gila and Salt River Meridian) to Coolidge Dam in T.3S., R.18E., sec. 17 (Gila and Salt River Meridian), including San Carlos Reservoir to the 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.

NOTE: The map provided is for informational purposes only. Map follows:



SANTA ANA SUCKER (*Catostomus santaanae*)

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

(2) Within these areas, the physical and biological features for the Santa Ana sucker are as follows:

(i) A functioning hydrological system within the historical geographic range of Santa Ana sucker that experiences peaks and ebbs in the water volume (either naturally or regulated) that encompasses areas that provide or contain sources of water and coarse sediment necessary to maintain all life stages of the species, including adults, juveniles, larva, and eggs, in the riverine environment;

(ii) Stream channel substrate consisting of a mosaic of loose sand, gravel, cobble, and boulder substrates in a series of riffles, runs, pools, and shallow sandy stream margins necessary to maintain various life stages of the species, including adults, juveniles, larva, and eggs, in the riverine environment;

(iii) Water depths greater than 1.2 in (3 cm) and bottom water velocities greater than 0.01 ft per second (0.03 m per second);

(iv) Clear or only occasionally turbid water;

(v) Water temperatures less than 86 °F (30 °C);

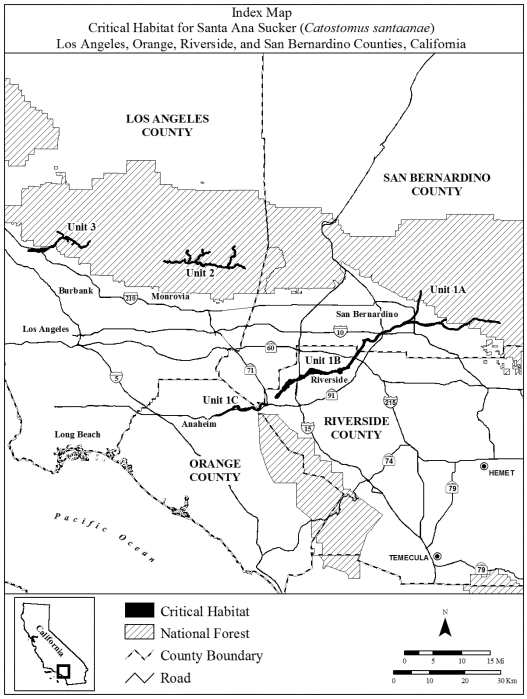
(vi) In-stream habitat that includes food sources (such as zooplankton, phytoplankton, and aquatic invertebrates), and associated vegetation such as aquatic emergent vegetation and adjacent riparian vegetation to provide: (a) Shading to reduce water temperature when ambient temperatures are high, (b) shelter during periods of high water velocity, and (c) protective cover from predators; and

(vii) Areas within perennial stream courses that may be 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) Critical habitat does not include man-made structures existing on the effective date of this rule and not containing one of more of the physical and biological features, 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 using a base of U.S. Geological Survey 7.5′ quadrangle maps. Critical habitat units were then mapped using Universal Transverse Mercator (UTM) zone 11, North American Datum (NAD) 1983 coordinates.

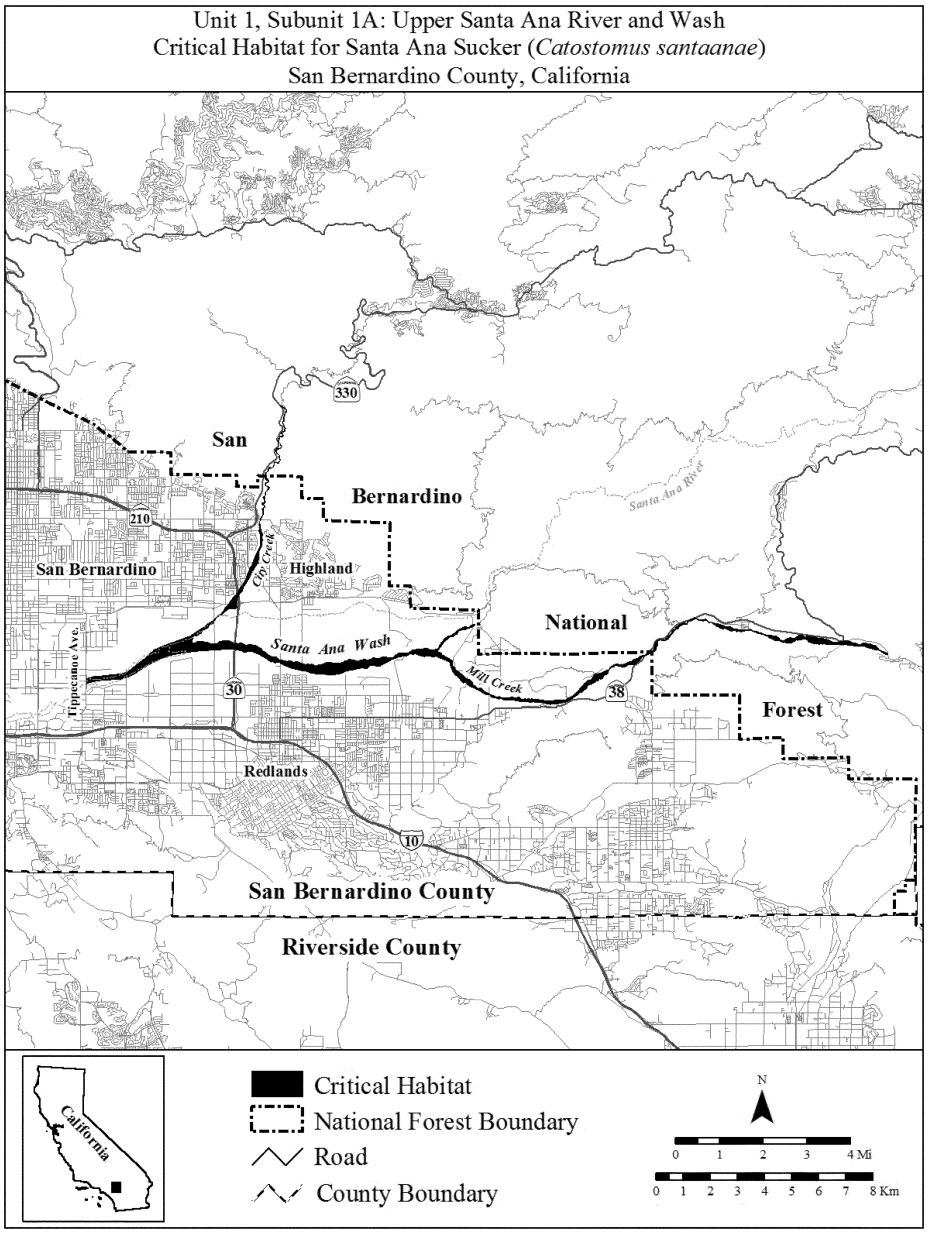
(5) NOTE: Index map of critical habitat units for Santa Ana sucker (*Catostomus santaanae*) follows:



(6) Unit 1: Santa Ana River, Orange, Riverside, and San Bernardino Counties, California. Subunit 1A: Upper Santa Ana River and Wash, San Bernardino County.

(i) [Reserved]

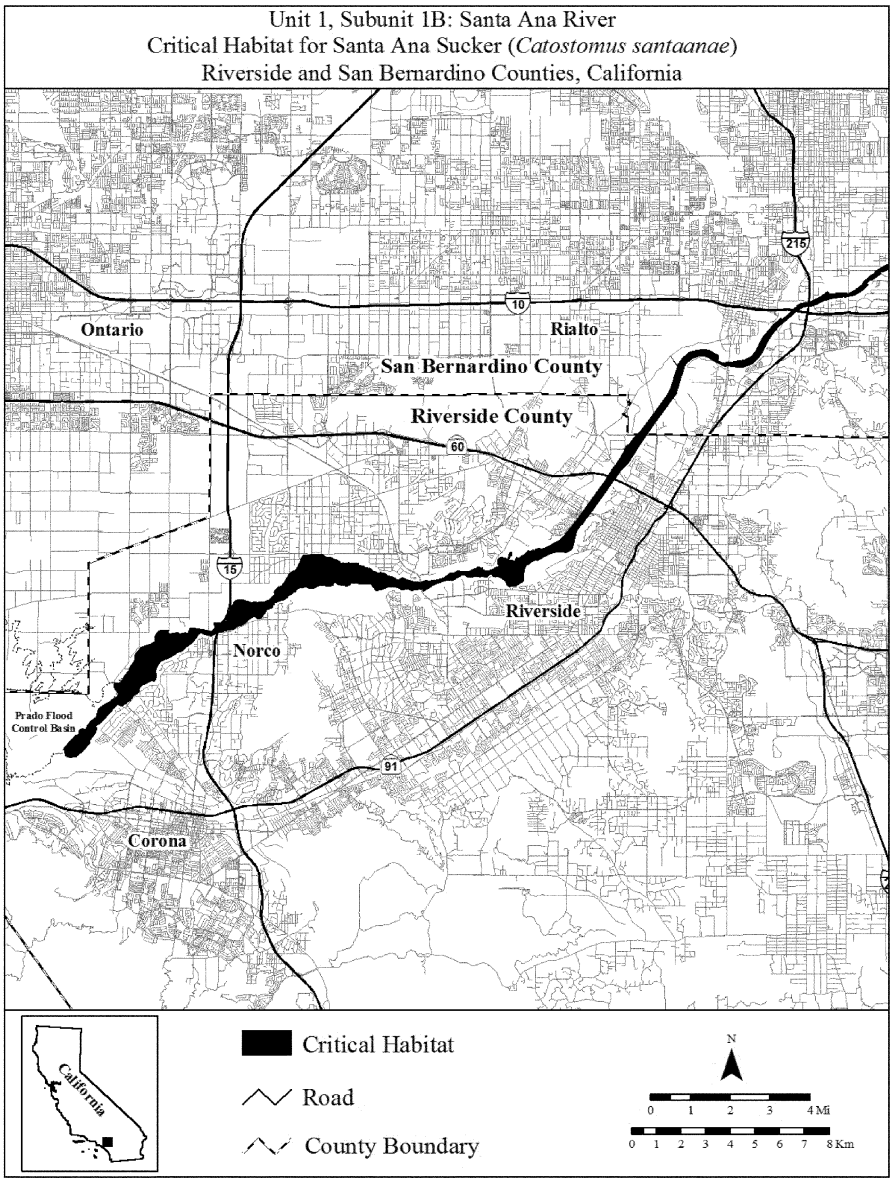
(ii) Map of Subunit 1A (Upper Santa Ana River and Wash) follows:



(7) *Unit 1:* Santa Ana River, Orange, Riverside, and San Bernardino Counties, California. Subunit 1B: Santa Ana River, Riverside and San Bernardino Counties.

(i) [Reserved]

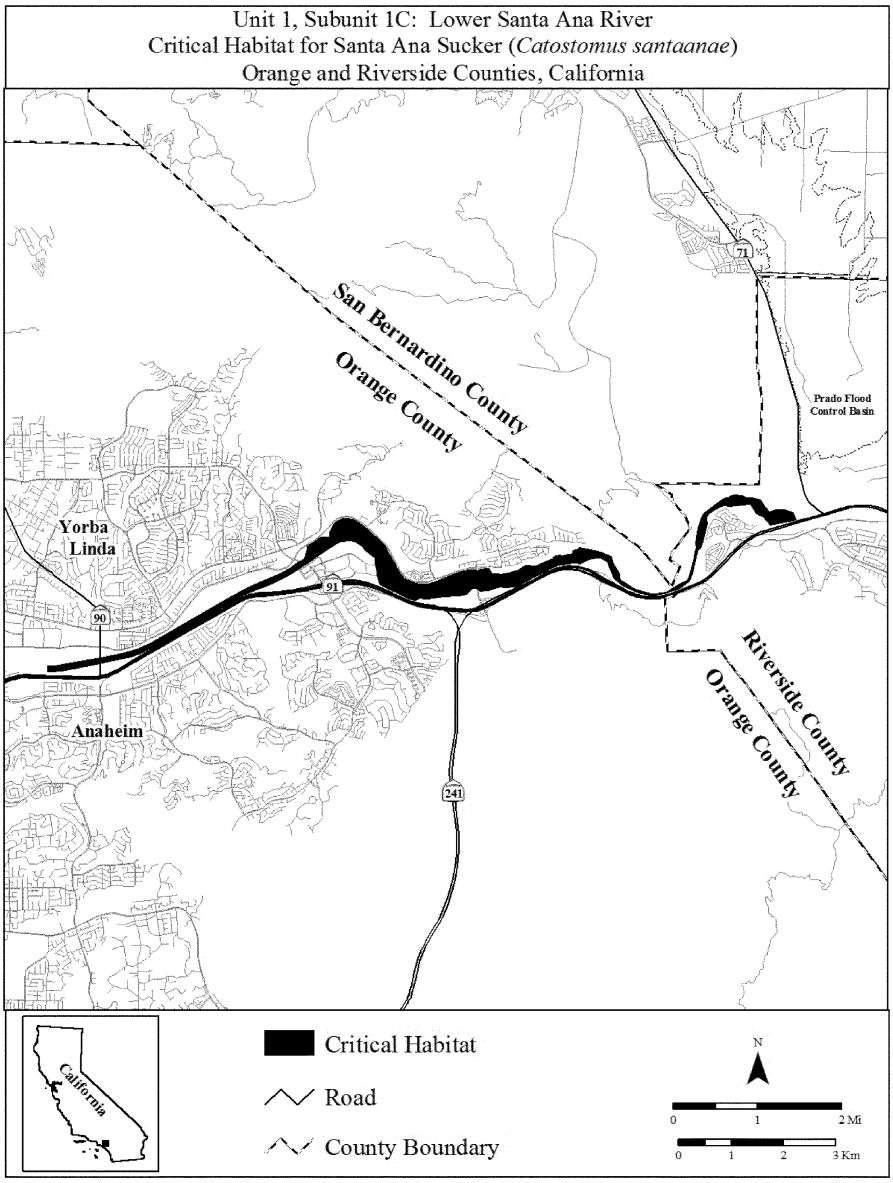
(ii) Map of Subunit 1B: (Santa Ana River) follows:



(8) Unit 1: Santa Ana River, Orange, Riverside, and San Bernardino Counties, California. Subunit 1C: Lower Santa Ana River, Orange and Riverside Counties.

(i) [Reserved]

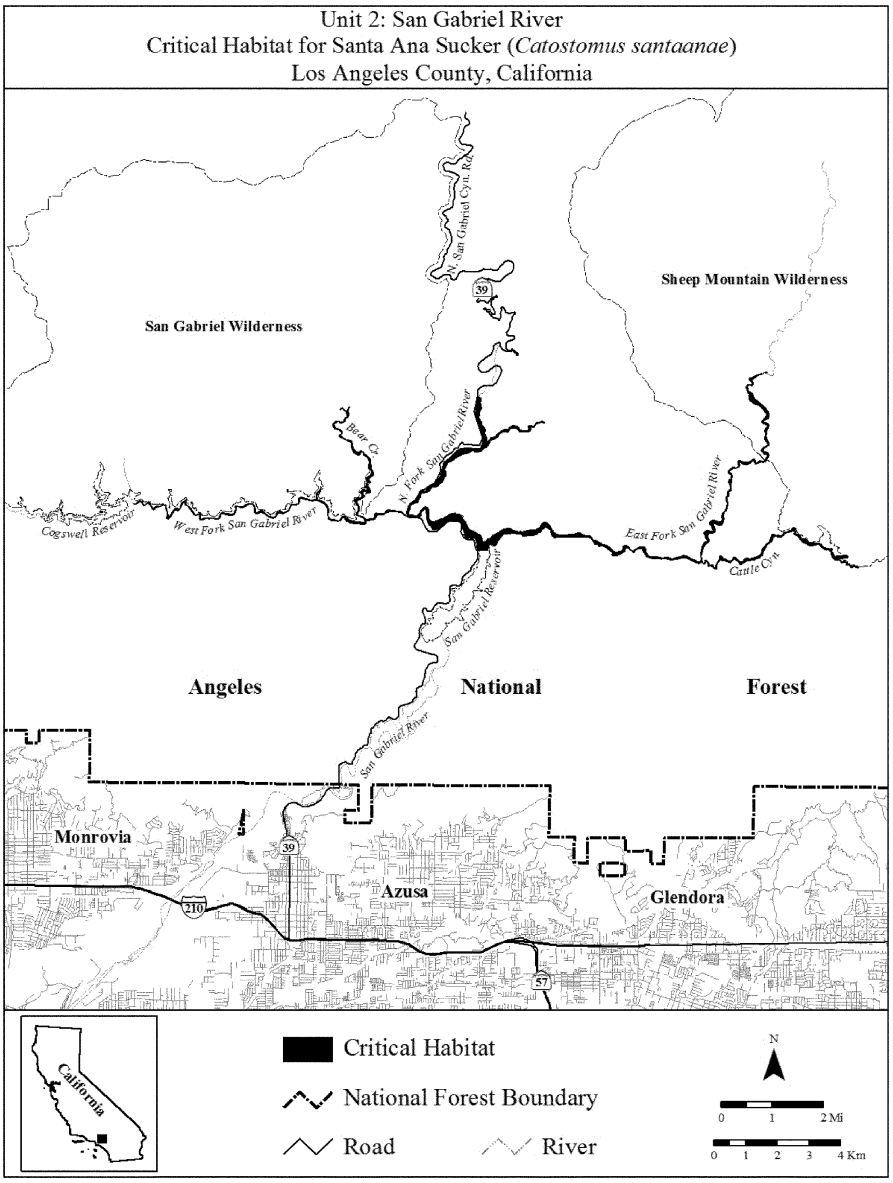
(ii) Map of Subunit 1C (Lower Santa Ana River) follows:



(9) Unit 2: San Gabriel River, Los Angeles County, California.

(i) [Reserved]

(ii) Map of Unit 2 (San Gabriel River) follows:



(10) Unit 3: Big Tujunga Wash, Los Angeles County, California. Subunit 3A: Big Tujunga Wash.

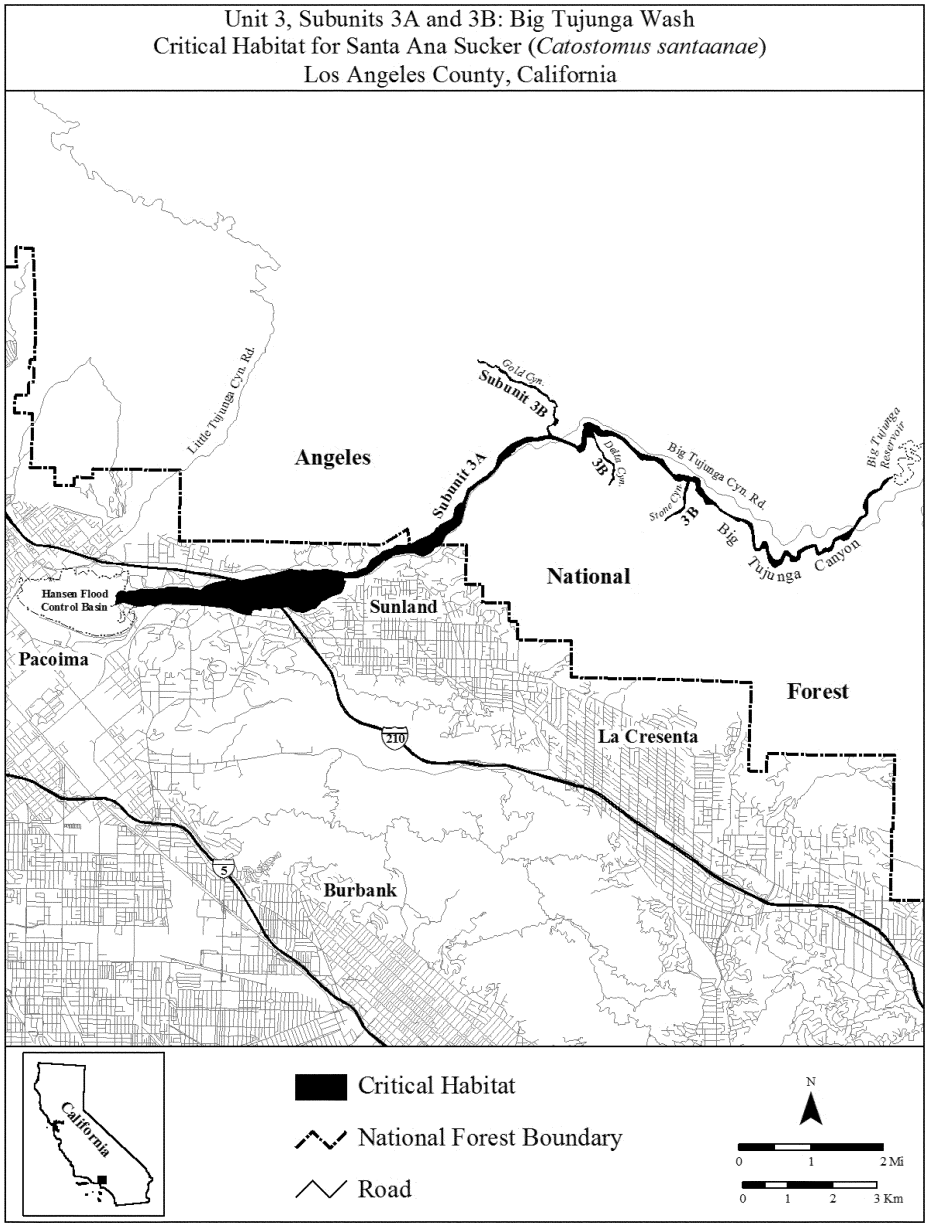
(i) [Reserved]

(ii) Map of Subunit 3A (Big Tujunga Wash) appears in paragraph (11)(ii) of this entry.

(11) Subunit 3B: Gold Canyon, Delta Canyon, and Stone Canyon Creeks.

(i) [Reserved]

(ii) Map of Unit 3 (Big Tujunga Wash) follows:



SHORTNOSE SUCKER (*Chasmistes brevirostris*)

(1) Critical habitat units are depicted for Klamath and Lake Counties, Oregon, and Modoc County, California, on the maps below.

(2) Within these areas, the primary constituent elements of the physical or biological features essential to the conservation of shortnose sucker consist of three components:

(i) *Water*. Areas with sufficient water quantity and depth within lakes, reservoirs, streams, marshes, springs, groundwater sources, and refugia habitats with minimal physical, biological, or chemical impediments to connectivity. Water must have varied depths to accommodate each life stage: Shallow water (up to 3.28 ft (1.0 m)) for juveniles, and deeper water (up to 14.8 ft (4.5 m)) for adults. The water quality characteristics should include water temperatures of less than 82.4 °F (28.0 °Celsius); pH less than 9.75; dissolved oxygen levels greater than 4.0 mg per L; low levels of microcystin; and un-ionized ammonia (less than 0.5 mg per L). Elements also include natural flow regimes that provide flows during the appropriate time of year or, if flows are controlled, minimal flow departure from a natural hydrograph.

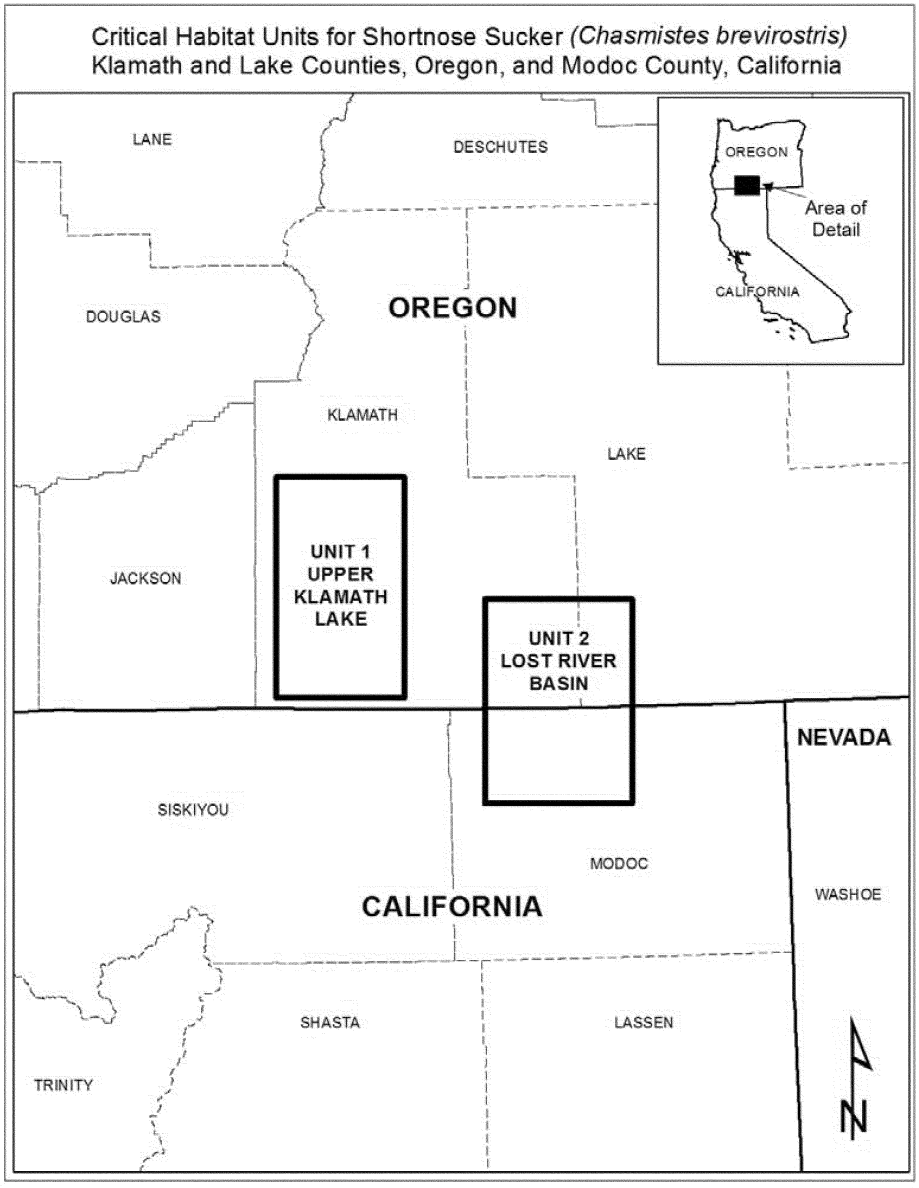
(ii) *Spawning and rearing habitat*. Streams and shoreline springs with gravel and cobble substrate at depths typically less than 4.3 ft (1.3 m) with adequate stream velocity to allow spawning to occur. Areas containing emergent vegetation adjacent to open water provides habitat for rearing and facilitates growth and survival of suckers, as well as protection from predation and protection from currents and turbulence.

(iii) *Food*. Areas that contain an abundant forage base, including a broad array of chironomidae, crustacea, and other aquatic macroinvertebrates.

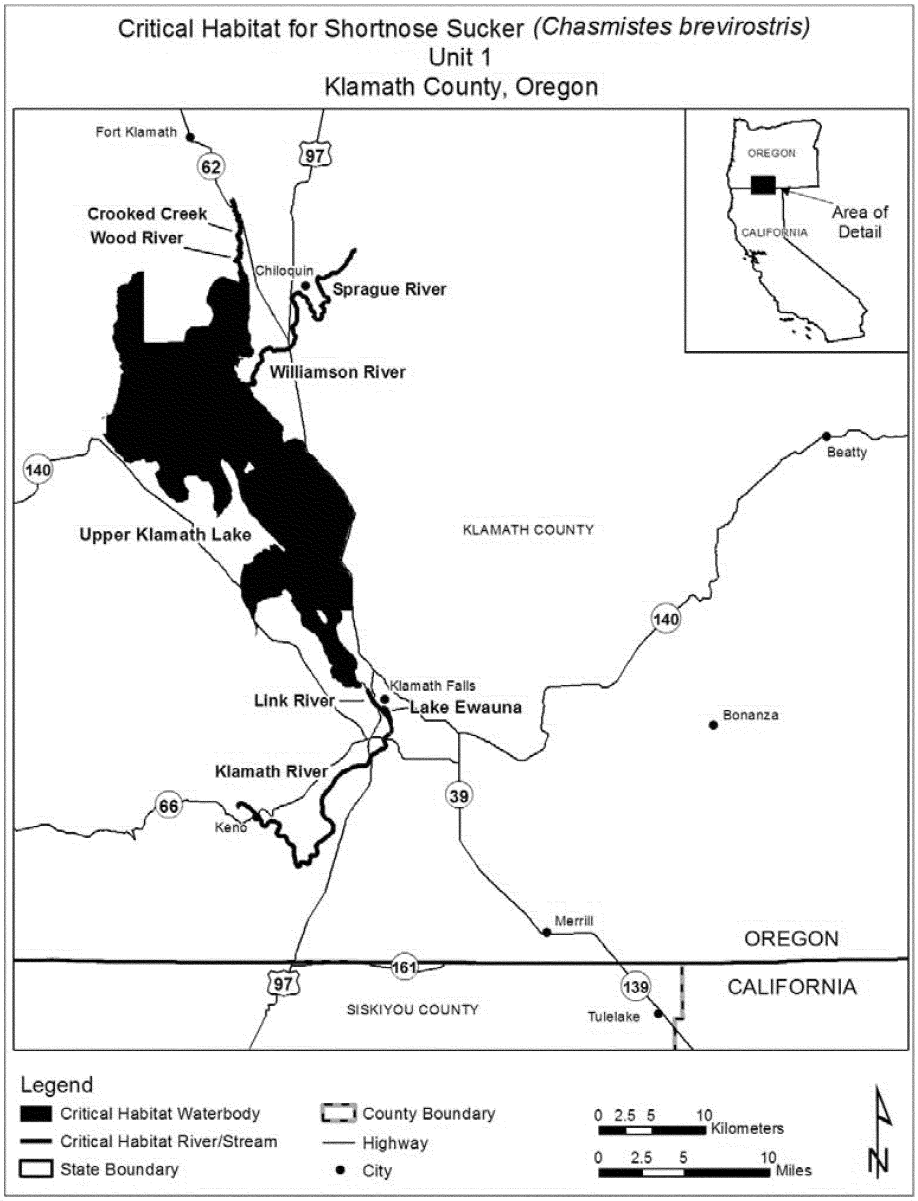
(3) Critical habitat does not include man-made structures (such as docks and bridges) and the land on which they are located existing within the legal boundaries on January 10, 2013.

(4) *Critical habitat map units*. Data layers defining map units were created on a base of the U.S. Geological Survey 2009 National Hydrography Dataset, and critical habitat was then mapped using North American Datum (NAD) 83, Universal Transverse Mercator Zone 10N coordinates. The maps in this entry, as modified by any accompanying regulatory text, establish the boundaries of the critical habitat designation. The coordinates or plot points or both on which each map is based are available to the public at the Service's internet site, *http://www.fws.gov/klamathfallsfwo*, at *http://www.regulations.gov* at Docket No. FWS–R8–ES–2011–0097, and at the field office responsible for the designation. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2.

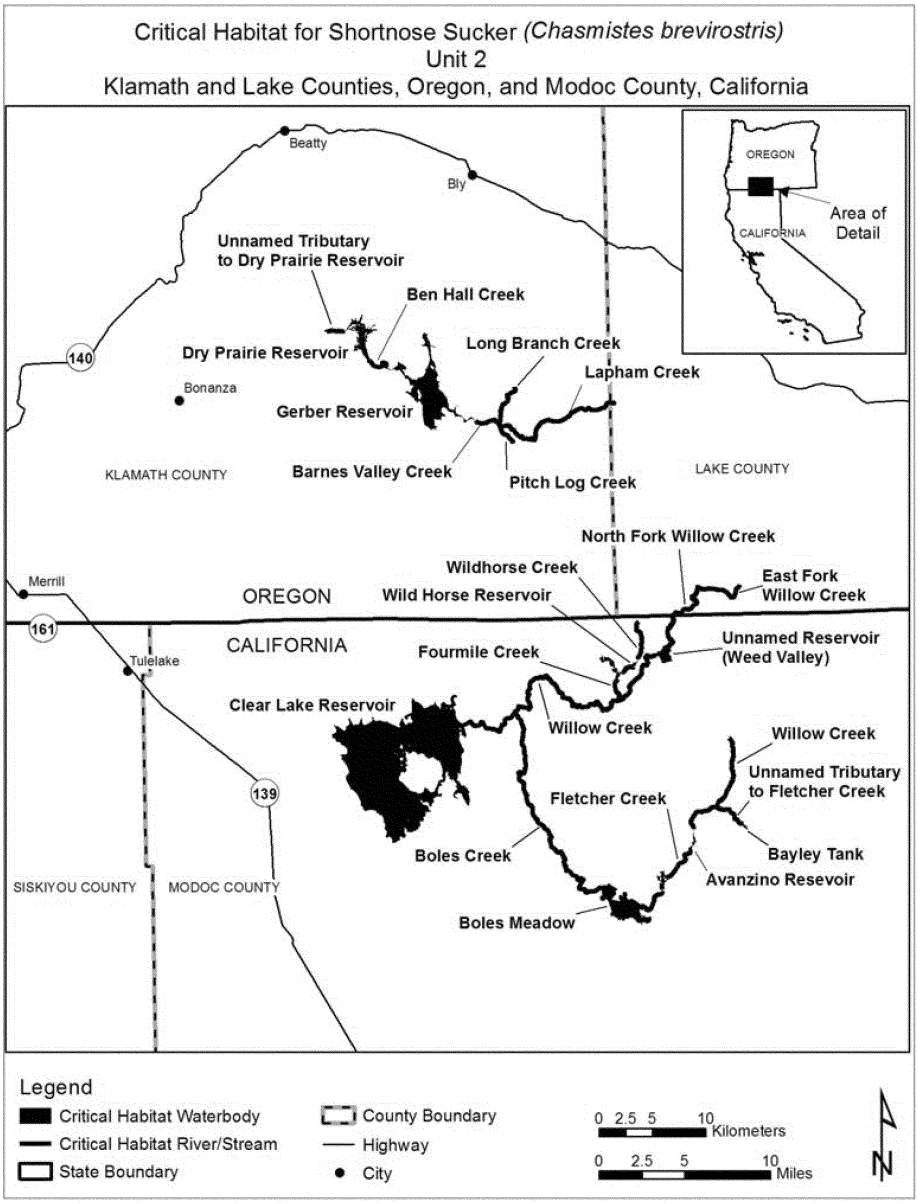
(5) NOTE: An index map for designated critical habitat units for the Lost River sucker follows:



(6) Unit 1: Upper Klamath Lake Unit, Klamath County, Oregon. Map of Unit 1, Upper Klamath Lake Unit, of critical habitat for shortnose sucker follows:



(7) Unit 2: Lost River Basin Unit, Klamath County, Oregon. Map of Unit 2, Lost River Basin Unit, of critical habitat for shortnose sucker follows:



WARNER SUCKER (*Catostomus warnerensis*)

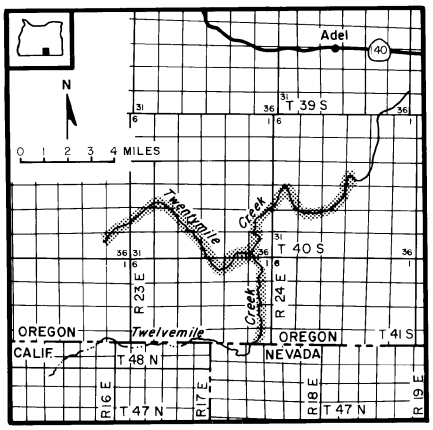
Oregon: Lake County.

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: The map provided is for informational purposes only. Map follows:

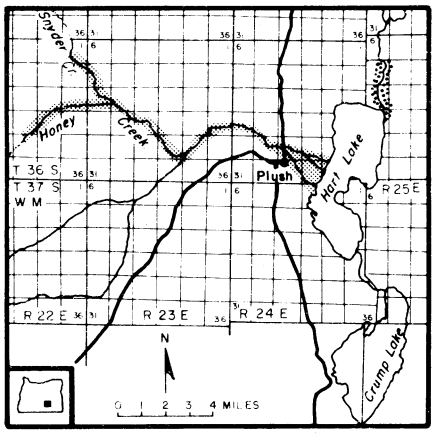


3. *Spillway Canal north of Hart Lake*—Approximately 2 stream miles and 50 feet on either side of the waterway commencing at its confluence with Hart Lake and extending to a point about 2 miles downstream, and including those portions of the waterway in T36S, R24E, Sections 7, 18, and 19.

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: The map provided is for informational purposes only. 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.

ZUNI BLUEHEAD SUCKER (CATOSTOMUS DISCOBOLUS YARROWI)

(1) Critical habitat unit is depicted for Cibola and McKinley Counties, New Mexico, on the map below.

(2) Critical habitat includes the adjacent floodplains within 91.4 lateral meters (m) (300 lateral feet (ft)) on either side of bankfull discharge, except where bounded by canyon walls. Bankfull discharge is the flow at which water begins to leave the channel and disperse into the floodplain, and generally occurs every 1 to 2 years.

(3) Within these areas, the primary constituent elements of the physical or biological features essential to the conservation of the Zuni bluehead sucker consist of three components:

(i) A riverine system with habitat to support all life stages of the Zuni bluehead sucker, which includes:

(A) Dynamic flows that allow for periodic changes in channel morphology and adequate river functions, such as channel reshaping and delivery of coarse sediments.

(B) Stream courses with perennial flows or intermittent flows that serve as connective corridors between occupied or seasonally occupied habitat through which the subspecies may disperse when the habitat is wetted.

(C) Stream mesohabitat types including runs, riffles, and pools with substrate ranging from gravel, cobble, and bedrock substrates with low or moderate amounts of fine sediment and substrate embeddedness.

(D) Streams with depths generally less than 2 meters (3.3 feet), and with slow to swift flow velocities less than 0.35 meters per second (1.15 feet per second).

(E) Clear, cool water with low turbidity and temperatures in the general range of 2.0 to 23.0 °C (35.6 to 73.4 °F).

(F) No harmful levels of pollutants.

(G) Adequate riparian shading to reduce water temperatures when ambient temperatures are high and provide protective cover from predators.

(ii) An abundant aquatic insect food base consisting of fine particulate organic material, filamentous algae, midge larvae, caddisfly larvae, mayfly larvae, flatworms, and small terrestrial insects.

(iii) Areas devoid of nonnative aquatic species or areas that are maintained to keep nonnatives at a level that allows the Zuni bluehead sucker to continue to survive and reproduce.

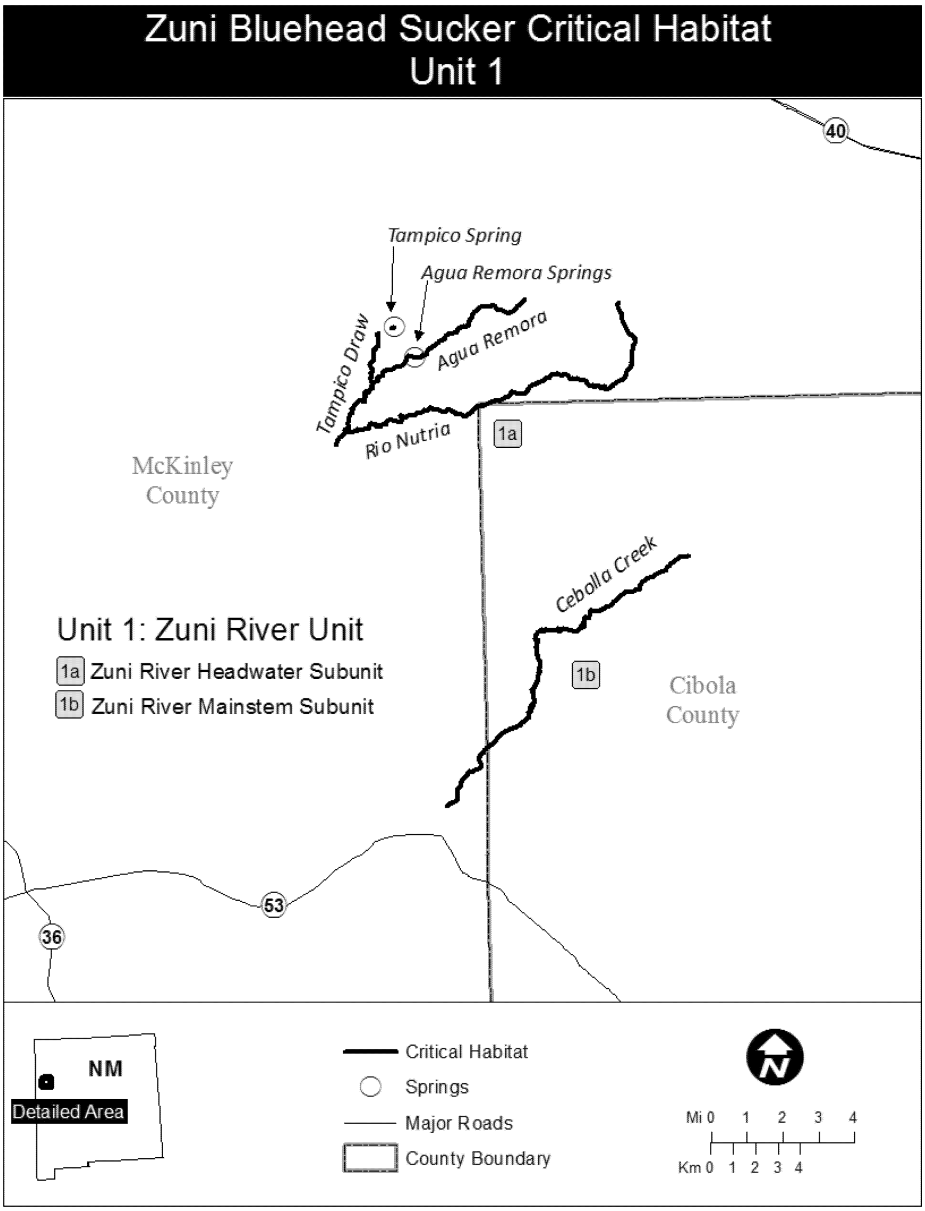
(4) Critical habitat does not include manmade structures (such as buildings, aqueducts, runways, roads, and other paved areas) and the land on which they are located existing within the legal boundaries on July 7, 2016.

(5) *Critical habitat map units.* Data layers defining map unit were developed using ESRI ArcGIS mapping software along with various spatial layers. Data layers defining map units were created with U.S. Geological Survey National Hydrography Dataset (NHD) Medium Flowline data. ArcGIS was also used to calculate river kilometers and river miles from the NHD dataset, and it was used to determine longitude and latitude coordinates in decimal degrees. Critical habitat upstream limits were delineated based on the upper limits identified in the NHD dataset for each stream. The projection used in mapping and calculating distances and locations within the unit was North American Equidistant Conic, NAD 83. The maps in this entry, as modified by any accompanying regulatory text, establish the boundaries of the critical habitat designation. The coordinates or plot points or both on which each map is based are available to the public at the Service's Internet site (*http://www.fws.gov/southwest/es/newmexico*), at *http://www.regulations.gov* at Docket No. FWS–R2–ES–2013–0002, and at the field office responsible for this designation. You may obtain field office location information by contacting one of the Service regional offices, the addresses of which are listed at 50 CFR 2.2.

(6) Unit 1: Zuni River Unit, McKinley and Cibola Counties, New Mexico.

(i) *General description:* Unit 1 consists of approximately 55.7 kilometers (km) (34.6 miles (mi)) of the Zuni River watershed and the adjacent floodplains within 91.4 lateral meters (300 lateral feet) on either side of bankfull discharge, except where bounded by canyon walls in McKinley and Cibola Counties, and is composed of land ownership by the State (2.1 km (1.3 mi)), Forest Service (19.5 km (12.1 mi)) and private landowners (34.0 km (21.1 mi)).

(ii) Map of Unit 1 follows:


Zuni Bluehead Sucker Critical Habitat
Unit 1
40
Tampico Spring
Agua Remora Springs
Tampico Draw
Agua Remora
Rio Nutria
1a
McKinley
County
Cebolla Creek
Unit 1: Zuni River Unit
1a Zuni River Headwater Subunit
1b Zuni River Mainstem Subunit
1b
Cibola
County
53
36
NM
Detailed Area
Critical Habitat
Springs
Major Roads
County Boundary
N
Mi 0 1 2 3 4
Km 0 1 2 3 4

BULL TROUT (*Salvelinus confluentus*)

(1) *Locations of critical habitat.* Critical habitat units are depicted in the following States and counties on the maps and as described below:

State	Counties
(i) Idaho	Adams, Benewah, Blaine, Boise, Bonner, Boundary, Butte, Camas, Custer, Elmore, Gem, Idaho, Kootenai, Lemhi, Lewis, Nez Perce, Owyhee, Shoshone, Valley, Washington
(ii) Montana	Deer Lodge, Flathead, Glacier, Granite, Lake, Lewis and Clark, Lincoln, Mineral, Missoula, Powell, Ravalli, Sanders
(iii) Nevada	Elko
(iv) Oregon	Baker, Clatsop, Columbia, Deschutes, Gilliam, Grant, Harney, Hood River, Jefferson, Klamath, Lake, Lane, Linn, Malheur, Morrow, Multnomah, Sherman, Umatilla, Union, Wallowa, Wasco, Wheeler
(v) Washington	Asotin, Benton, Chelan, Clallam, Clark, Columbia, Cowlitz, Garfield, Grant, Grays Harbor, Island, Jefferson, King, Kittitas, Klickitat, Mason, Okanogan, Pend Oreille, Pierce, Skagit, Skamania, Snohomish, Stevens, Thurston, Wahkiakum, 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; designated lakes and reservoirs; and inshore portions of marine nearshore areas, including tidally influenced freshwater heads of estuaries indicated on the maps beginning with paragraph (e)(7) of this entry.

(i) Critical habitat includes the stream channels within the designated stream reaches and a lateral extent as defined by 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 waterbody 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 mean higher high-water (MHHW) line), including the uppermost reach of the saltwater wedge within tidally influenced freshwater heads of estuaries. The MHHW line 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 the 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 10 meters (m) (33 feet (ft)) relative to the mean low low-water (MLLW) line (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 by the national Oceanic and Atmospheric Administration in the National Tidal Datum 1983 through 2001. This area between the MHHW line and minus 10 m MLLW line 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) *The primary constituent elements (PCEs) of critical habitat.* Within the critical habitat, the 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. The PCEs are as follows:

(i) Springs, seeps, groundwater sources, and subsurface water connectivity (hyporheic flows) to contribute to water quality and quantity and provide thermal refugia.

(ii) Migration habitats with minimal physical, biological, or water quality impediments between spawning, rearing, overwintering, and freshwater and marine foraging habitats, including but not limited to permanent, partial, intermittent, or seasonal barriers.

(iii) An abundant food base, including terrestrial organisms of riparian origin, aquatic macroinvertebrates, and forage fish.

(iv) Complex river, stream, lake, reservoir, and marine shoreline aquatic environments, and processes that establish and maintain these aquatic environments, with features such as large wood, side channels, pools, undercut banks and unembedded substrates, to provide a variety of depths, gradients, velocities, and structure.

(v) Water temperatures ranging from 2 to 15 degrees Celsius (°C) (36 to 59 degrees Fahrenheit (°F)), with adequate thermal refugia available for temperatures that exceed the upper end of this range. Specific temperatures within this range will depend on bull trout life-history stage and form; geography; elevation; diurnal and seasonal variation; shading, such as that provided by riparian habitat; streamflow; and local groundwater influence.

(vi) In spawning and rearing areas, substrate 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. A minimal amount of fine sediment, generally ranging in size from silt to coarse sand, embedded in larger substrates, is characteristic of these conditions. The size and amounts of fine sediment suitable to bull trout will likely vary from system to system.

(vii) A natural hydrograph, including peak, high, low, and base flows within historic and seasonal ranges or, if flows are controlled, minimal flow departure from a natural hydrograph.

(viii) Sufficient water quality and quantity such that normal reproduction, growth, and survival are not inhibited.

(ix) Sufficiently low levels of occurrence of nonnative predatory (e.g., lake trout, walleye, northern pike, smallmouth bass); interbreeding (e.g., brook trout); or competing (e.g., brown trout) species that, if present, are adequately temporally and spatially isolated from bull trout.

(4) Critical habitat does not include manmade structures (including, but not limited to, buildings, aqueducts, docks, seawalls, pipelines, roads, runways, or other structures or paved areas) and the land or waterway on which they are located that exist within the legal boundaries on the effective date of this rule.

(5) *Exclusions.* Each excluded area is identified in the relevant Critical Habitat Unit text below, as identified in paragraphs (e)(8) through (e)(41) of this entry. Critical habitat does not include:

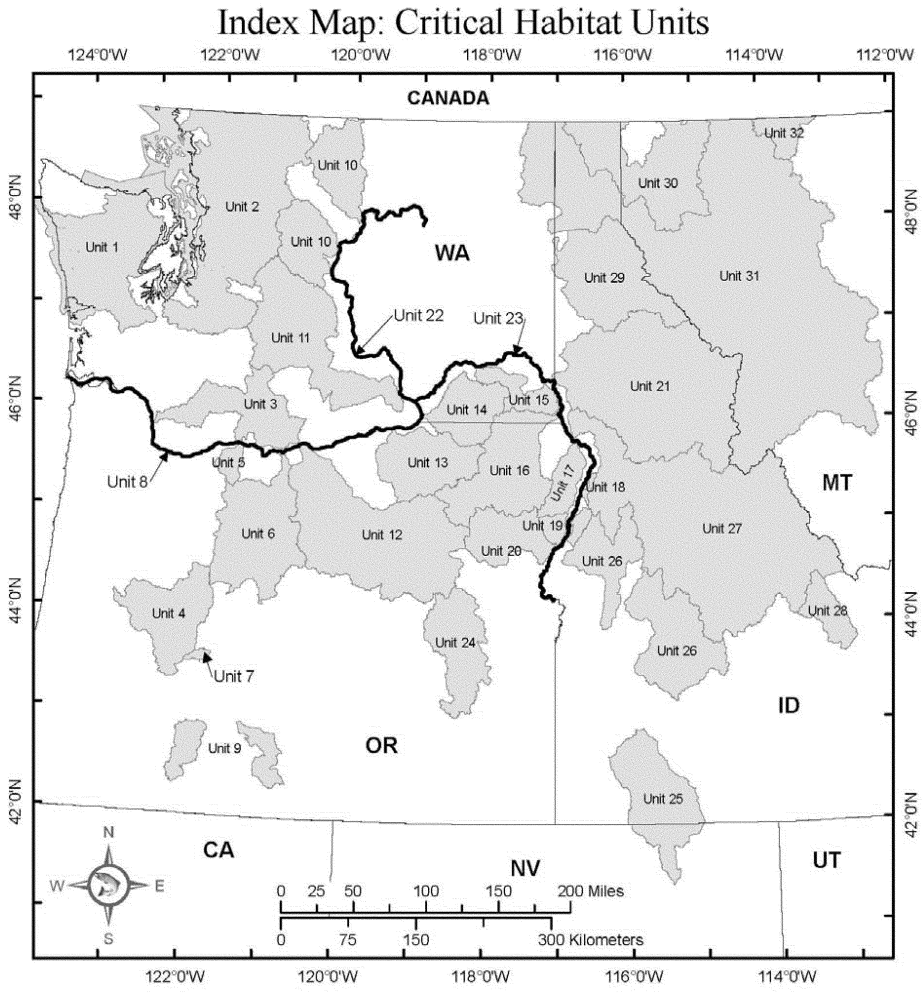
(i) Waters adjacent to non-Federal lands covered by the following legally operative incidental take permits for habitat conservation plans (HCPs) issued under section 10(a)(1)(B) of the Endangered Species Act of 1973, as amended (Act), in which bull trout is a covered species on or before the publication of this final rule: Cedar River Watershed HCP, Green Diamond HCP, Washington Department of Natural Resources HCP, Washington Forest Practices HCP, Plum Creek Central Cascades HCP, Plum Creek Native Fish HCP, and Stimpson Native Fish HCP;

(ii) Waters within or adjacent to lands subject to certain tribal management plans; or

(iii) Waters where impacts to national security have been identified.

(6) *Critical habitat map units.* Data layers defining map units were created using U.S. Geological Survey (USGS) Hydrologic Unit Code map (HUCs) at a scale of 1:250,000 down to the 4th level cataloging unit. In some cases, 5th and 6th level HUCs were also used and some finer scale watersheds developed using USGS 10-meter Digital Elevation Model and 1:24,000 scale hydrography layers. The marine boundaries for the Puget Sound and Olympic Peninsula critical habitat unit were based on Washington Department of Natural Resources 1:24,000 scale county boundaries and HUCs.

(7) Note: Index map for critical habitat units for the bull trout follows:



(8) Unit 1: Olympic Peninsula

(i) This unit consists of 748.7 km (465.2 mi) of streams, 529.2 km (328.8 mi) of marine shoreline, and 3,064 ha (7,572 ac) of lakes and reservoirs. The unit is located in northwestern Washington.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Alta Creek	47.685	−123.737	47.698	−123.756
Big Creek	47.566	−123.681	47.518	−123.774
Bob Creek	47.696	−123.853	47.689	−123.856
Boulder Creek	47.979	−123.613	47.983	−123.601
Brown Creek	47.455	−123.260	47.411	−123.319
Buckinghorse Creek	47.739	−123.485	47.746	−123.483
Cameron Creek	47.916	−123.243	47.912	−123.255
Canyon Creek	47.954	−123.247	48.025	−123.137
Cat Creek	47.946	−123.644	47.973	−123.593
Cedar Creek	47.440	−123.405	47.443	−123.403
Cedar Creek	47.717	−124.336	47.712	−124.416
Chehalis River	46.819	−123.253	46.966	−123.547
Church Creek	47.460	−123.457	47.461	−123.451
Clearwater River	47.628	−124.276	47.628	−124.276
Clide Creek	47.888	−123.799	47.871	−123.798
Cook Creek	47.358	−123.997	47.368	−124.032
Copalis River	47.137	−124.159	47.138	−124.154
Cougar Creek	47.862	−123.860	47.867	−123.854
Delabarre Creek	47.726	−123.529	47.735	−123.527
Dungeness River	47.941	−123.093	48.152	−123.128
East Twin Creek	47.841	−123.988	47.833	−123.991
Elk Creek	47.510	−123.345	47.515	−123.331
Elwha River	47.771	−123.582	48.147	−123.566
Ennis Creek	48.053	−123.412	48.117	−123.405
Fire Creek	47.601	−123.523	47.598	−123.526
Fitzhenry Creek	47.964	−123.589	47.967	−123.589
Godkin Creek	47.752	−123.452	47.760	−123.465
Gold Creek	47.941	−123.083	47.941	−123.093
Goldie River	47.760	−123.522	47.840	−123.470
Goodman Creek	47.834	−124.339	47.825	−124.513
Graves Creek	47.569	−123.563	47.574	−123.572
Gray Wolf River	47.916	−123.243	47.977	−123.112
Grays Harbor Marine	46.926	−124.180	46.906	−124.139
Griff Creek	48.016	−123.593	48.023	−123.595
Haggerty Creek	47.952	−123.575	47.956	−123.576
Harlow Creek	47.700	−123.877	47.685	−123.889
Hayes River	47.803	−123.430	47.808	−123.454
Hee Haw Creek	47.701	−123.663	47.737	−123.691
Hee Hee Creek	47.709	−123.734	47.712	−123.739
Hoh Creek	47.883	−123.751	47.877	−123.754
Hoh River	47.737	−124.366	47.880	−123.729
Hood Canal Marine	47.434	−122.842	47.684	−122.802
Hughes Creek	48.026	−123.599	48.025	−123.595
Humptulips River	47.048	−124.046	47.231	−123.977
Hurd Creek	48.124	−123.144	48.118	−123.143
Hurricane Creek	47.976	−123.587	47.975	−123.594
Idaho Creek	47.947	−123.538	47.945	−123.544
Ignar Creek	47.637	−123.430	47.639	−123.433
Irely Creek	47.565	−123.677	47.565	−123.680
Irely Lake	47.565	−123.674		
Joe Creek	47.217	−124.154	47.206	−124.204
Kalaloch Creek	47.637	−124.361	47.607	−124.375
Lake Cushman	47.470	−123.255		
Lebar Creek	47.427	−123.320	47.417	−123.330
Leitha Creek	47.762	−123.452	47.769	−123.460
Lillian River	47.944	−123.500	47.931	−123.528
Little River	48.061	−123.519	48.063	−123.578
Long Creek	47.926	−123.558	47.951	−123.561
Lost River	47.859	−123.458	47.862	−123.468
Madison Creek	48.044	−123.580	48.042	−123.591
Matheny Creek	47.543	−123.837	47.576	−124.115
Matriotti Creek	48.133	−123.161	48.136	−123.141
McCartney Creek	47.879	−123.466	47.878	−123.471
McTaggert Creek	47.409	−123.240	47.363	−123.235
Moclips River	47.260	−124.124	47.248	−124.220
Morse Creek	48.063	−123.347	48.117	−123.351
Mosquito Creek	47.786	−124.383	47.798	−124.482
Mount Tom Creek	47.819	−123.821	47.868	−123.888
Nalley Slough	47.334	−123.132	47.328	−123.131
Nolan Creek	47.743	−124.202	47.751	−124.344
Noname Creek	47.629	−123.456	47.626	−123.452

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
North Fork Quinault River	47.582	−123.645	47.638	−123.646
North Fork Skokomish River	47.355	−123.235	47.506	−123.318
OGS Creek	47.879	−123.768	47.878	−123.769
O'Neil Creek	47.610	−123.464	47.616	−123.472
Owl Creek	47.780	−124.039	47.805	−124.079
Pacific Coast Marine	48.003	−124.680	46.926	−124.180
Paradise Creek	47.699	−123.801	47.694	−123.813
Pine Creek	47.442	−123.430	47.446	−123.417
Prescott Creek	47.904	−123.487	47.903	−123.491
Purdy Creek	47.302	−123.182	47.307	−123.161
Pyrites Creek	47.644	−123.436	47.639	−123.433
Queets River	47.541	−124.335	47.735	−123.696
Quinault Lake	47.475	−123.869		
Quinault River	47.391	−124.045	47.533	−123.744
Raft River	47.449	−124.220	47.458	−124.326
Richert Spring	47.321	−123.219	47.320	−123.225
Rustler Creek	47.629	−123.569	47.617	−123.617
Salmon River	47.524	−124.041	47.556	−124.220
Sams River	47.604	−123.853	47.624	−124.013
Satsop River	47.015	−123.510	47.023	−123.509
Sege Creek	47.988	−123.597	47.987	−123.604
Siebert Creek	48.049	−123.293	48.121	−123.290
Skobob Creek	47.327	−123.175	47.328	−123.132
Skokomish River	47.315	−123.238	47.315	−123.229
Slate Creek	47.529	−123.320	47.521	−123.336
Slate Creek	47.749	−123.498	47.744	−123.491
Slide Creek	47.883	−123.736	47.875	−123.748
Snider Creek	47.846	−123.971	47.842	−123.968
South Fork Hoh River	47.764	−123.786	47.777	−123.908
South Fork Skokomish River	47.315	−123.247	47.425	−123.354
Steamboat Creek	47.688	−124.350	47.678	−124.404
Stony Creek	47.871	−123.464	47.871	−123.469
Strait of Juan de Fuca Marine	48.103	−122.885	48.217	−124.102
Taft Creek	47.866	−123.967	47.858	−123.942
Tshletshy Creek	47.606	−123.741	47.666	−123.925
Twin Creek	47.832	−123.995	47.831	−123.988
Unnamed trib. (#0100)	47.340	−123.246	47.335	−123.242
Unnamed trib. (#0509)	47.844	−123.939	47.830	−123.982
Unnamed trib. (#0527)	47.874	−123.821	47.868	−123.817
Unnamed trib. (#0542)	47.887	−123.719	47.883	−123.719
Valley Creek	48.123	−123.438	48.107	−123.452
Vance Creek	47.327	−123.299	47.327	−123.299
Vance Creek Remenant Channel	47.315	−123.257	47.315	−123.238
West Fork Satsop River	47.360	−123.566	47.035	−123.526
Windfall Creek	47.914	−123.492	47.912	−123.495
Winfield Creek	47.783	−124.144	47.810	−124.233
Wishkah River	47.257	−123.715	47.257	−123.715
Wolf Creek	47.974	−123.586	47.974	−123.593
Wynoochee River	47.160	−123.650	47.360	−123.637

(iii) Waterbodies associated with the following tribal lands, habitat conservation plans (HCPs), or U.S. Navy training areas totaling 553.9 km (343.9 mi) of streams and 144.6 km (89.9 mi) of marine shoreline have been excluded from critical habitat designation under section 4(b)(2) of the Act in this unit:

(A) Waterbodies within or adjacent to the open water training and testing areas of the Dabob Bay Military Operating Area and areas within the Connecting Waters of the Dabob Bay Range Complex, including marine habitats associated with the Hood Canal Critical Habitat Subunit (CHSU);

(B) Waterbodies within the geographic area covered by the Washington State Forest Practices Habitat Conservation Plan (HCP), including portions of the Chehalis River/Grays Harbor, Dungeness River, Elwha River, Hoh River, Queets River, Quinualt River, Skokomish River Pacific Coast, Strait of Juan De Fuca, and Hood Canal Marine CHSUs;

(C) Waterbodies within the geographic area covered by the Green Diamond HCP, including portions of the Chehalis River/Grays Harbor and Skokomish CHSUs;

(D) Waterbodies within the geographic area covered by the Washington Department of Natural Resources HCP, including portions of Chehalis River/Grays Harbor, Dungeness River, Elwha River, Hoh River, Queets River,

Skokomish River, Pacific Coast, Strait of Juan De Fuca, and Hood Canal Marine CHSUs; and

(E) Waterbodies within the areas under management by the Hoh Tribe, including portions of Hoh River and Pacific Coast CHSUs; Jamestown S'Klallam Tribe, including portions of Dungeness River CHSU; Lower Elwha Tribe, including portions of Elwha River and Strait of Juan de Fuca CHSUs; Quileute Tribe, including portions of Pacific Coast CHSU; Quinault Tribe, including portions of Quinault River, Queets River, and Pacific Coast CHSUs; and Skokomish Tribe, including portions of Skokomish River and Hood Canal Marine CHSUs, within reservation boundaries, and waterbodies that are adjacent to:

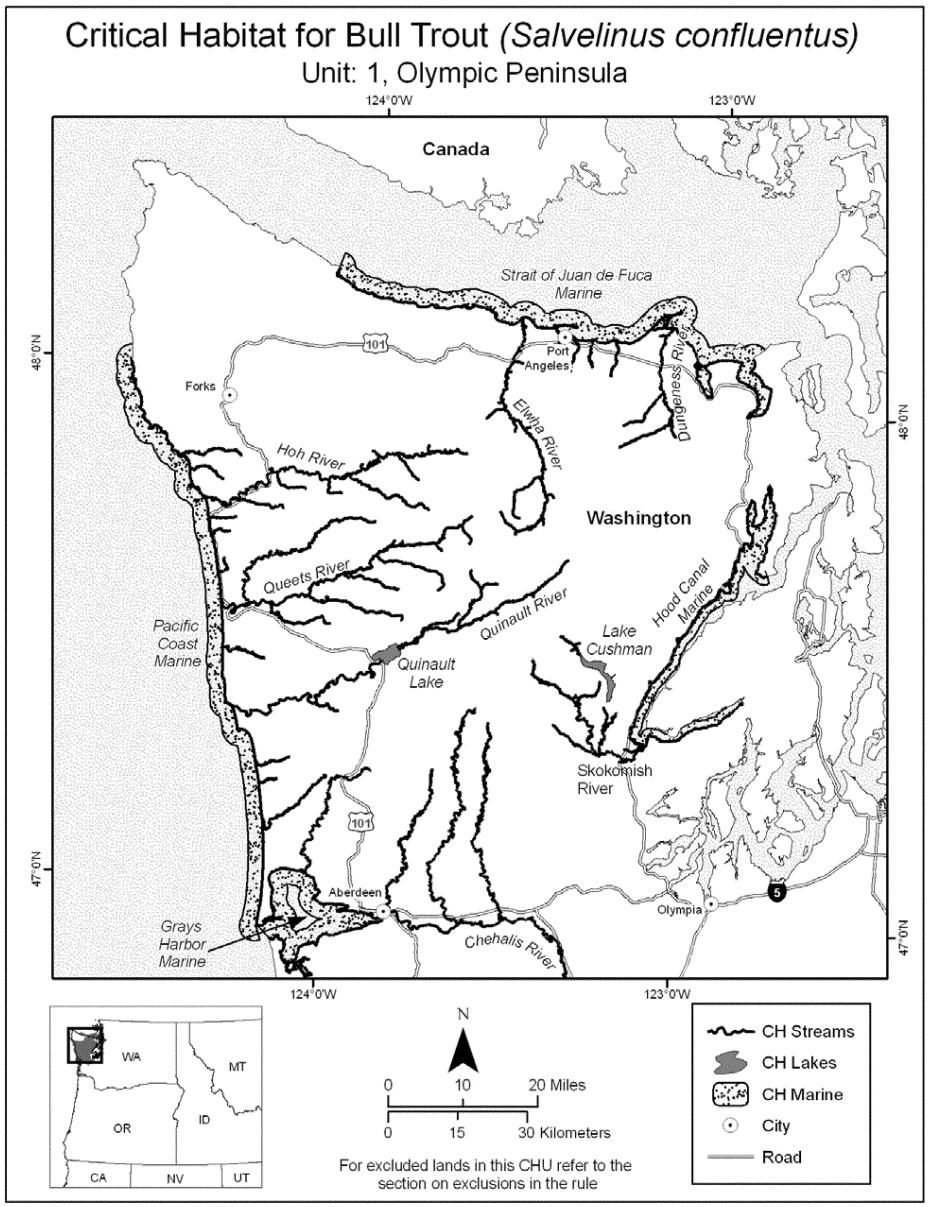
(*1*) Lands held in trust by the United States for their benefit;

(*2*) Lands held in trust by the United States for any Indian Tribe or individual subject to restrictions by the United States against alienation;

(*3*) Fee lands, either within or outside the reservation boundaries, owned by the tribal government; and

(*4*) Fee lands within the reservation boundaries owned by individual Indians.

(iv) Map of Unit 1, Olympic Peninsula follows:



(9) Unit 2: Puget Sound

(i) This unit consists of 1,840.2 km (1,143.5 mi) of streams, 684.0 km (425.0 mi) of marine shoreline, and 16,260.9 ha (40,181.5 ac) of lakes and reservoirs. The unit is located in northwestern Washington.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Alder Creek	48.549	−121.955	48.519	−121.956
Aldrich Creek (#0423)	48.916	−122.042	48.921	−122.051
Alma Creek	48.590	−121.356	48.600	−121.363
Anderson Creek	48.797	−122.325	48.869	−122.318
Arrow Creek	48.407	−121.390	48.423	−121.396
Bacon Creek	48.681	−121.464	48.585	−121.395
Baker Lake	48.708	−121.642		
Baker River	48.548	−121.741	48.741	−121.563
Bald Eagle Creek	48.796	−121.449	48.800	−121.465
Bear Creek	48.966	−121.383	48.965	−121.388
Bear Creek	48.898	−122.105	48.893	−122.145
Bear Creek (#0353)	48.788	−122.123	48.783	−122.140
Bear Lake Outlet (#0317)	48.610	−121.912	48.607	−121.912
Beaver Creek	48.086	−121.516	48.077	−121.527
Beckler River	47.865	−121.311	47.715	−121.340
Bedal Creek	48.047	−121.351	48.080	−121.395
Bell Creek	48.684	−121.899	48.681	−121.900
Bender Creek	48.063	−121.591	48.071	−121.590
Bertrand Creek	48.999	−122.521	48.912	−122.535
Big Beaver Creek	48.841	−121.211	48.775	−121.066
Big Creek	48.343	−121.440	48.345	−121.451
Big Four Creek	48.071	−121.524	48.070	−121.512
Bitter Creek	47.841	−121.503	47.840	−121.508
Black Creek	48.247	−121.414	48.259	−121.402
Black Oak Creek	48.185	−121.454	48.177	−121.450
Blackjack Creek	48.051	−121.626	48.062	−121.631
Boardman Creek	48.040	−121.675	48.070	−121.681
Boulder Creek	48.512	−121.364	48.518	−121.364
Boulder Creek	47.354	−121.707	47.371	−121.688
Boulder Creek	48.937	−122.021	48.925	−122.037
Boulder River	48.245	−121.828	48.282	−121.787
Boyd Creek	48.903	−121.863	48.897	−121.866
Brooks Creek	48.289	−121.908	48.277	−121.911
Brush Creek	48.909	−121.423	48.913	−121.424
Buck Creek	48.353	−121.268	48.265	−121.340
Buck Creek	48.047	−121.472	48.045	−121.481
Buck Creek	47.023	−121.557	47.029	−121.555
Cabin Creek	47.363	−121.695	47.367	−121.684
Camp Creek	48.150	−121.280	48.159	−121.292
Canyon Creek	48.775	−120.778	48.707	−120.918
Canyon Creek	48.220	−121.081	48.211	−121.088
Canyon Creek	48.158	−121.817	48.097	−121.970
Canyon Creek	48.932	−121.951	48.906	−121.989
Canyon Creek (Canyon Lake Creek)	48.840	−122.111	48.832	−122.144
Carbon River	46.960	−121.793	47.130	−122.233
Cascade Creek	48.903	−121.839	48.904	−121.839
Cascade River	48.463	−121.164	48.524	−121.430
Cavanaugh Creek	48.645	−122.110	48.647	−122.121
Cedar River	47.313	−121.521	47.409	−121.723
Chainup Creek	48.905	−121.843	48.908	−121.840
Chenuis Creek	46.994	−121.842	46.992	−121.843
Chester Morse Lake	47.389	−121.694		
Chilliwack River	48.878	−121.487	49.000	−121.411
Chocwick Creek	48.055	−121.384	48.074	−121.400
Cinnamon Creek	48.867	−120.887	48.891	−120.916
Clearwater Creek	48.805	−121.989	48.771	−122.047
Clearwater River	47.079	−121.782	47.146	−121.834
Coal Creek	48.096	−121.535	48.085	−121.541
Coal Creek	48.892	−122.164	48.881	−122.153
Coal Creek (Upper)	48.838	−121.903	48.838	−121.906
Cook Slough	48.198	−122.218	48.198	−122.234
Corkindale Creek	48.518	−121.483	48.505	−121.486
Cornell Creek	48.886	−121.960	48.899	−121.969
Cripple Creek	47.048	−121.693	47.040	−121.701
Crystal Creek	48.183	−121.361	48.181	−121.364
Crystal Creek	48.791	−121.510	48.787	−121.503
Crystal Creek	46.925	−121.540	46.928	−121.538
Cumberland Creek	48.505	−121.985	48.518	−121.994
Dan Creek	48.265	−121.540	48.298	−121.551
Davis Creek	48.879	−121.931	48.882	−121.931
Day Creek	48.444	−122.007	48.519	−122.067

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Deadhorse Creek	48.900	−121.836	48.904	−121.838
Deep Creek	48.868	−121.911	48.869	−121.908
Deer Creek	48.718	−121.116	48.721	−121.105
Deer Creek	48.096	−121.558	48.084	−121.556
Deer Creek	48.365	−121.795	48.268	−121.933
Deer Creek	46.836	−121.965	46.873	−121.974
Deer Creek	48.602	−122.093	48.610	−122.095
Deerhorn Creek	48.906	−121.857	48.903	−121.858
Depot Creek	48.986	−121.293	48.997	−121.324
Devils Creek	48.819	−121.002	48.824	−121.032
Diablo Lake	48.708	−121.105		
Diobsud Creek	48.576	−121.433	48.559	−121.412
Discovery Creek	46.900	−121.571	46.896	−121.580
Ditch Creek	48.903	−121.851	48.902	−121.849
Doe Creek	47.011	−121.547	47.028	−121.553
Downey Creek	48.330	−121.149	48.258	−121.225
Dusty Creek	48.139	−121.040	48.177	−121.019
Duwamish River	47.474	−122.252	47.514	−122.304
Duwamish Waterway	47.514	−122.304	47.585	−122.360
East Duwamish Waterway	47.590	−122.344	47.567	−122.347
East Fork Bacon Creek	48.713	−121.417	48.661	−121.434
East Fork Foss River	47.649	−121.277	47.653	−121.294
Eastern Shoreline Guemes Island	48.529	−122.573	48.589	−122.646
Eastern Shoreline Puget Sound (North)	48.511	−122.606	48.561	−122.493
Eastern Shoreline Puget Sound (South)	47.970	−122.232	48.449	−122.551
Eastern Shoreline Whidbey Island	47.905	−122.388	48.369	−122.666
Eastern Shorline Lummi Island	48.717	−122.719	48.640	−122.609
Easy Creek	48.881	−121.456	48.889	−121.459
Ebey Slough	47.941	−122.170	48.042	−122.215
Edfro Creek	48.663	−122.117	48.661	−122.127
Elbow Creek / Lake Doreen Outlet (#0331)	48.707	−121.915	48.685	−121.911
Elliott Creek	48.027	−121.367	48.057	−121.416
Elwell Creek	47.809	−121.849	47.838	−121.853
Excelsior Creek	47.870	−121.487	47.864	−121.492
Falls Creek	48.137	−121.432	48.148	−121.437
Falls Creek	46.992	−121.874	46.999	−121.889
Falls Creek	48.824	−121.906	48.834	−121.902
Finney Creek	48.465	−121.688	48.524	−121.847
Fire Creek	48.154	−121.232	48.153	−121.245
Fisher Creek	48.563	−120.912	48.603	−121.050
Fishtrap Creek	48.999	−122.411	48.912	−122.523
Fobes Creek	48.622	−122.119	48.622	−122.112
Foss River	47.653	−121.294	47.705	−121.307
Fossil Creek	48.904	−121.850	48.908	−121.850
Fourteenmile Creek	48.126	−121.229	48.140	−121.222
Freezeout Creek	48.950	−120.932	48.956	−120.970
French Creek	48.255	−121.783	48.282	−121.757
Fryingpan Creek	46.873	−121.623	46.895	−121.592
Galbraith Creek	48.755	−122.021	48.759	−122.019
Gallop Creek	48.882	−121.947	48.894	−121.944
Gedney Island	48.005	−122.305	48.005	−122.305
Gilligan Creek	48.473	−122.126	48.488	−122.140
Glacier Creek	48.131	−121.168	48.130	−121.204
Glacier Creek	47.987	−121.369	47.986	−121.393
Glacier Creek	48.812	−121.890	48.892	−121.939
Goat Creek	48.334	−121.161	48.328	−121.157
Goat Island	48.360	−122.531	48.360	−122.531
Goblin Creek	47.923	−121.312	47.919	−121.309
Goodell Creek	48.711	−121.291	48.726	−121.305
Gordon Creek	48.088	−121.657	48.071	−121.673
Gorge Lake	48.706	−121.175		
Grandy Creek	48.562	−121.811	48.518	−121.881
Granite Creek	48.648	−120.857	48.707	−120.918
Green Creek	48.732	−121.936	48.738	−121.938
Green River	47.275	−122.108	47.474	−122.252
Greenwater River	47.093	−121.458	47.158	−121.660
Hat Slough	48.197	−122.362	48.208	−122.323
Hazzard Creek	47.081	−121.690	47.078	−121.681
Hedrick Creek	48.890	−121.981	48.899	−121.971
Higgins Creek	48.318	−121.755	48.362	−121.807
Hope Island	48.399	−122.561	48.399	−122.561

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Horse Creek	48.322	−121.258	48.313	−121.286
Howard Creek	48.619	−121.966	48.609	−121.966
Huckleberry Creek	46.989	−121.624	47.079	−121.586
Hutchinson Creek	48.732	−122.103	48.707	−122.179
Ika Island	48.363	−122.499	48.363	−122.499
Illabot Creek	48.389	−121.319	48.496	−121.531
Index Creek	47.760	−121.497	47.766	−121.481
Indian Creek	48.935	−121.395	48.947	−121.398
Ipsut Creek	46.972	−121.831	46.979	−121.833
Jackman Creek	48.529	−121.697	48.523	−121.722
Jim Creek	48.223	−121.950	48.185	−122.078
Jones Creek	48.542	−122.051	48.524	−122.053
Jordan Creek	48.515	−121.419	48.522	−121.422
June Creek	46.995	−121.905	46.995	−121.917
Kapowsin Creek	46.991	−122.195	47.032	−122.205
Kendall Creek	48.922	−122.145	48.887	−122.149
Kindy Creek	48.432	−121.208	48.463	−121.208
Klickitat Creek	46.906	−121.551	46.908	−121.550
Lake Creek	48.769	−121.550	48.762	−121.546
Lake Shannon	48.587	−121.723		
Lake Union	47.642	−122.331		
Lake Washington	47.619	−122.245		
Lewis Creek	47.820	−121.509	47.824	−121.525
Lightning Creek	48.907	−120.983	48.933	−120.986
Lime Creek	48.218	−121.278	48.252	−121.293
Lindsay Creek	47.347	−121.660	47.351	−121.661
Little Beaver Creek	48.878	−121.323	48.914	−121.075
Little Chilliwack River	48.962	−121.478	48.992	−121.409
Little Creek	48.876	−121.937	48.884	−121.934
Little Deer Creek	48.439	−121.950	48.387	−121.870
Little Fork Little Chilliwack River	48.954	−121.442	48.980	−121.428
Lodi Creek	46.948	−121.699	46.960	−121.706
Long Creek	48.080	−121.686	48.074	−121.691
Loomis Creek	48.670	−121.827	48.661	−121.814
Mallardy Creek	48.055	−121.656	48.070	−121.655
Maple Creek	48.926	−122.077	48.912	−122.079
Marble Creek	48.542	−121.252	48.531	−121.282
Martin Creek	48.092	−121.403	48.101	−121.396
Masonry Pool	47.410	−121.737		
McAllister Creek	48.587	−121.156	48.623	−121.057
McCoy Creek	47.831	−121.827	47.848	−121.825
McDonald Creek (#0435)	48.911	−122.019	48.921	−122.016
McGinnis Creek	48.613	−121.961	48.610	−121.960
McMillan Creek	48.810	−121.212	48.815	−121.193
Merry Brook Creek	48.087	−121.388	48.089	−121.392
Middle Fork Nooksack River	48.725	−121.899	48.834	−122.155
Milk Creek	48.178	−121.152	48.221	−121.163
Mill Creek	48.496	−121.870	48.512	−121.888
Miller River	47.675	−121.389	47.719	−121.394
Miners Creek	48.190	−121.023	48.187	−121.031
Money Creek	47.707	−121.443	47.729	−121.426
Monument Creek (#0324)	48.647	−121.828	48.652	−121.835
Moose Creek	48.255	−121.710	48.277	−121.700
Mowich River	46.911	−121.996	46.925	−121.950
Newhalem Creek	48.663	−121.253	48.671	−121.255
Niesson Creek	46.884	−122.031	46.912	−122.046
Nisqually River	46.834	−122.324	47.101	−122.692
Nookachamps Creek	48.348	−122.203	48.471	−122.297
Nooksack River	48.778	−122.583	48.939	−122.420
Nooksack River (Slater Slough)	48.784	−122.588	48.789	−122.604
North Fork Canyon Creek	48.774	−120.798	48.768	−120.793
North Fork Canyon Creek	48.165	−121.818	48.158	−121.817
North Fork Cedar River	47.316	−121.507	47.313	−121.521
North Fork Nooksack River	48.835	−122.154	48.920	−122.055
North Fork Sauk River	48.096	−121.370	48.097	−121.389
North Fork Skagit River	48.387	−122.367	48.364	−122.473
North Fork Skykomish River	47.823	−121.530	47.887	−121.448
North Fork Stillaguamish River	48.279	−121.817	48.283	−121.770
North Fork Tolt River	47.718	−121.779	47.696	−121.821
North Mowich River	46.916	−121.878	46.915	−121.895
North Puyallup River	46.845	−121.878	46.864	−121.951

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
O'Toole Creek	48.498	−121.915	48.514	−121.917
Otter Creek	48.424	−121.374	48.420	−121.374
Owl Creek	48.161	−121.288	48.163	−121.301
Palmer Creek	48.043	−121.469	48.045	−121.483
Panther Creek	48.631	−120.978	48.708	−120.976
Parallel Creek	46.911	−121.549	46.909	−121.560
Park Creek	48.740	−121.682	48.727	−121.659
Pass Creek	48.815	−121.463	48.811	−121.458
Peat Bog Creek (#0352)	48.780	−122.118	48.790	−122.122
Perry Creek	48.075	−121.488	48.063	−121.515
Pierce Creek	48.766	−121.073	48.772	−121.066
Pilchuck Creek	48.303	−122.158	48.208	−122.226
Pilchuck River	47.995	−121.746	47.904	−122.091
Plumbago Creek	48.606	−122.101	48.612	−122.097
Poch Creek	46.987	−121.955	46.991	−121.954
Portage Island	48.694	−122.614	48.694	−122.614
Porter Creek	48.795	−122.115	48.799	−122.127
Powerhouse Creek	48.908	−121.815	48.911	−121.818
Pressentin Creek	48.504	−121.844	48.518	−121.852
Proctor Creek	47.821	−121.648	47.835	−121.646
Pugh Creek	48.165	−121.333	48.172	−121.339
Pumice Creek	48.141	−121.150	48.148	−121.236
Puyallup River	46.864	−121.951	47.268	−122.426
Racehorse Creek	48.884	−122.130	48.888	−122.146
Rack Creek	47.388	−121.731	47.392	−121.722
Ranger Creek	46.988	−121.849	46.995	−121.854
Rankin Creek	48.733	−121.908	48.733	−121.920
Rapid River	47.821	−121.233	47.803	−121.293
Rex River	47.347	−121.645	47.371	−121.688
Ridley Creek	48.720	−121.865	48.725	−121.899
Rocky Creek	48.510	−121.502	48.500	−121.495
Rocky Creek	48.819	−121.996	48.809	−121.997
Roland Creek	48.770	−120.998	48.769	−121.024
Rollins Creek	48.293	−121.852	48.281	−121.836
Ross Lake	48.869	−121.054		
Ruby Creek	48.718	−121.001	48.707	−120.918
Salmon Creek	47.911	−121.482	47.888	−121.453
Samish River	48.548	−122.457	48.548	−122.457
Sauk River	48.095	−121.390	48.482	−121.605
Saxson Creek	48.689	−122.156	48.689	−122.163
Schweitzer Creek	48.065	−121.688	48.074	−121.699
Segelsen Creek	48.299	−121.707	48.280	−121.715
Seventysix Gulch	47.974	−121.384	47.986	−121.393
Seymour Creek	48.755	−122.009	48.758	−122.010
Shaw Creek	46.901	−121.568	46.893	−121.580
Ship Canal (Chittendon Locks)	47.660	−122.379		
Shotgun Creek	47.380	−121.708	47.384	−121.706
Sibley Creek	48.511	−121.255	48.511	−121.262
Silesia Creek	48.910	−121.485	48.999	−121.613
Silver Creek	48.981	−121.190	48.970	−121.104
Silver Creek	47.938	−121.439	47.897	−121.436
Silver Creek	47.000	−121.530	46.997	−121.524
Silver Gulch	48.075	−121.564	48.078	−121.570
Silver Springs	46.994	−121.533	46.997	−121.533
Sister Creek	48.746	−121.974	48.755	−121.988
Skagit River	48.471	−121.608	48.712	−121.138
Skookum Creek	48.686	−122.106	48.670	−122.142
Skykomish River	47.813	−121.579	47.855	−121.954
Slate Creek	48.752	−120.786	48.756	−120.796
Small Creek	48.158	−120.978	48.162	−121.006
Smith Creek	48.841	−122.262	48.859	−122.309
Snohomish River	47.830	−122.046	48.016	−122.151
Snoqualmie River	47.541	−121.837	47.830	−122.046
Snowslide Gulch	47.858	−121.509	47.858	−121.503
Son of Gallop	48.889	−121.943	48.884	−121.940
Sonny Boy Creek	48.427	−121.172	48.462	−121.197
South Fork Canyon Creek	48.154	−121.785	48.158	−121.817
South Fork Cascade River	48.391	−121.109	48.463	−121.164
South Fork Cedar River	47.305	−121.513	47.313	−121.521
South Fork Nooksack River	48.616	−122.103	48.809	−122.203
South Fork Salmon Creek	47.903	−121.486	47.906	−121.476

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
South Fork Sauk River	47.986	−121.393	48.097	−121.389
South Fork Skagit River	48.296	−122.364	48.367	−122.358
South Fork Skagit River (Brandstedt Slough)	48.311	−122.357	48.311	−122.357
South Fork Skagit River (Crooked Slough)	48.306	−122.369	48.307	−122.373
South Fork Skagit River (Deepwater Slough)	48.327	−122.355	48.306	−122.383
South Fork Skagit River (Freshwater Slough)	48.338	−122.349	48.321	−122.377
South Fork Skagit River (Old River)	48.308	−122.365	48.308	−122.365
South Fork Skagit River (Steamboat Slough)	48.324	−122.348	48.296	−122.364
South Fork Skagit River (Tom Moore Slough)	48.296	−122.364	48.324	−122.348
South Fork Skagit River (Unnamed off Deepwater Slough)	48.317	−122.369	48.307	−122.389
South Fork Skykomish River	47.705	−121.307	47.813	−121.579
South Fork Stillaguamish River	48.030	−121.483	48.204	−122.127
South Fork Tolt River	47.693	−121.694	47.696	−121.821
South Mowich River	46.877	−121.855	46.915	−121.895
South Pass	48.225	−122.386	48.238	−122.378
South Prairie Creek	47.093	−121.952	47.098	−122.156
South Puyallup River	46.808	−121.892	46.864	−121.951
South Slough	48.193	−122.256	48.194	−122.254
Southeastern Shoreline Vashon Island	47.331	−122.493	47.348	−122.451
Squire Creek	48.194	−121.638	48.279	−121.685
St.Andrews Creek	46.834	−121.918	46.837	−121.921
Steamboat Slough	47.984	−122.169	48.033	−122.204
Stetattle Creek	48.727	−121.155	48.717	−121.150
Stillaguamish River	48.193	−122.167	48.238	−122.378
Straight Creek	48.254	−121.398	48.272	−121.398
Suiattle River	48.162	−121.006	48.306	−121.428
Sulphide Creek	48.789	−121.553	48.777	−121.533
Sulphur Creek	48.279	−121.086	48.247	−121.193
Sulphur Creek	48.659	−121.711	48.648	−121.699
Sultan River	47.870	−121.829	47.872	−121.826
Sunrise Creek	46.967	−121.540	46.971	−121.540
Swift Creek	48.747	−121.659	48.734	−121.659
Swift Creek	46.873	−121.954	46.870	−121.964
Swinomish Channel	48.440	−122.499	48.441	−122.504
Tenas Creek	48.335	−121.422	48.324	−121.440
Thompson Creek	48.891	−121.880	48.879	−121.915
Three Fools Creek	48.897	−120.849	48.890	−120.974
Three Lakes Outlet (#0319)	48.626	−121.888	48.625	−121.884
Thunder Creek	48.563	−121.027	48.678	−121.078
Tolmie Creek	46.984	−121.944	46.990	−121.944
Tolt River	47.696	−121.821	47.640	−121.927
Troublesome Creek	47.925	−121.363	47.897	−121.404
Trout Creek	47.833	−121.434	47.864	−121.488
Tye River	47.717	−121.229	47.705	−121.307
Union Slough	47.984	−122.167	48.034	−122.191
Unnamed trib. (#0194)	47.073	−121.693	47.072	−121.683
Unnamed trib. (#0217)	46.992	−121.705	46.992	−121.708
Unnamed trib. (#0219)	46.990	−121.706	46.987	−121.704
Unnamed trib. (#0226)	46.962	−121.711	46.961	−121.713
Unnamed trib. (#0234)	46.961	−121.711	46.965	−121.714
Unnamed trib. (#0241)	48.293	−121.785	48.284	−121.781
Unnamed trib. (#0242)	48.294	−121.772	48.286	−121.772
Unnamed trib. (#0243)	48.295	−121.759	48.286	−121.772
Unnamed trib. (#0265)	48.746	−122.094	48.743	−122.109
Unnamed trib. (#0284)	48.650	−122.116	48.649	−122.121
Unnamed trib. (#0290)	48.633	−122.121	48.635	−122.117
Unnamed trib. (#0291)	48.630	−122.121	48.636	−122.116
Unnamed trib. (#0315)	48.606	−121.953	48.608	−121.954
Unnamed trib. (#0316)	48.608	−121.930	48.605	−121.930
Unnamed trib. (#0320)	48.620	−121.861	48.625	−121.882
Unnamed trib. (#0321)	48.632	−121.872	48.629	−121.880
Unnamed trib. (#0323)	48.656	−121.862	48.655	−121.862
Unnamed trib. (#0332)	48.684	−121.921	48.690	−121.927
Unnamed trib. (#0336)	46.976	−121.547	46.976	−121.542
Unnamed trib. (#0347)	48.821	−122.121	48.828	−122.141
Unnamed trib. (#0349)	48.812	−122.125	48.815	−122.129
Unnamed trib. (#0364)	46.904	−121.567	46.904	−121.561
Unnamed trib. (#0364)	48.131	−121.909	48.123	−121.903
Unnamed trib. (#0365)	48.133	−121.884	48.124	−121.889
Unnamed trib. (#0367)	48.763	−122.040	48.765	−122.036
Unnamed trib. (#0371)	48.755	−122.017	48.757	−122.016

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Unnamed trib. (#0374)	48.761	−121.986	48.756	−121.994
Unnamed trib. (#0425)	48.934	−122.036	48.927	−122.031
Unnamed trib. (#0439)	47.325	−121.535	47.325	−121.532
Unnamed trib. (#0476)	48.845	−121.896	48.844	−121.902
Unnamed trib. (#0565)	46.960	−121.793	46.959	−121.792
Unnamed trib. (#1119)	48.185	−121.433	48.181	−121.430
Unnamed trib. (LB1) upstream of Crystal Ck	46.925	−121.544	46.923	−121.546
Unnamed trib. (LB2) upstream of Crystal Ck	46.923	−121.543	46.921	−121.546
Unnamed trib. (RB) upstream of Crystal Creek	46.920	−121.543	46.918	−121.542
Unnamed trib. downstream Boulder Ck	48.929	−122.040	48.926	−122.046
Unnamed trib. downstream Wanlick Ck	48.641	−121.878	48.640	−121.883
Unnamed trib. upstream Chenius Ck	46.992	−121.843	46.990	−121.839
Unnamed trib. upstream of (#0214)	46.997	−121.700	46.991	−121.704
Unnamed trib. upstream Wallace Ck	48.742	−121.947	48.739	−121.936
Van Horn Creek	46.977	−121.718	46.976	−121.719
Viola Creek	47.043	−121.712	47.052	−121.695
Vista Creek	48.180	−121.057	48.194	−121.047
Wallace Creek	48.748	−121.943	48.745	−121.951
Wallace River	47.874	−121.649	47.859	−121.795
Wanlick Creek	48.644	−121.877	48.663	−121.799
Warm Creek	48.761	−121.972	48.755	−121.979
Weden Creek	47.986	−121.444	48.003	−121.439
Wells Creek	48.890	−121.791	48.905	−121.809
West Cady Creek	47.898	−121.307	47.899	−121.319
West Cornell Creek	48.878	−121.969	48.888	−121.961
West Fork Foss River	47.627	−121.311	47.653	−121.294
West Fork White River	46.941	−121.708	47.125	−121.619
West Pass	48.238	−122.378	48.246	−122.394
West Slide Creek (#0422)	48.912	−122.063	48.917	−122.067
White Chuck River	48.070	−121.151	48.181	−121.424
White Creek	48.403	−121.538	48.397	−121.553
White River	46.893	−121.601	47.274	−122.217
Wildcat Creek	48.895	−122.006	48.909	−122.001
Wiseman Creek	48.516	−122.130	48.506	−122.135
Wright Creek	46.878	−121.615	46.877	−121.615
Wrong Creek	47.024	−121.710	47.049	−121.694

(iii) Waterbodies associated with the following tribal lands or habitat conservation plans (HCPs) totaling 876.9 km (544.9 mi) of streams, 203.4 km (126.4 mi) of marine shoreline, and 1,629.5 ha (4,026.6 ac) of lakes and reservoirs have been excluded from critical habitat designation under section 4(b)(2) of the Act in this unit:

(A) Waterbodies within the geographic area covered by the Washington State Forest Practices Habitat Conservation Plan (HCP) , including portions of Lower Green River, Lower Nisqually, Lower Skagit River, Nooksack River, Puyallup River, Samish River, Snohomish & Skykomish Rivers, Stillaguamish River, and Puget Sound Marine CHSUs;

(B) Waterbodies within the geographic area covered by the Washington Department of Natural Resources HCP, including portions of Lower Green River, Lower Skagit River, Nooksack River, Puyallup River, Samish River, Snohomish and Skykomish Rivers, Stillaguamish River, and Puget Sound Marine CHSUs; and

(C) Waterbodies within the areas under management by the Muckleshoot Tribe, including portions of the Puyallup River CHSU; Swinomish Tribe, including portions of the Puget Sound Marine CHSU; Lummi Nation, including portions of Nooksack River and Puget Sound Marine CHSUs; Nooksack Tribe, including portions of Nooksack River CHSU; Tulalip Tribes, including portions of Puget Sound Marine CHSU; Puyallup Tribe, including portions of Puyallup River and Puget Sound Marine CHSUs; and Stillaguamish Tribe, including portions of Stillaguamish River CHSU, within reservation boundaries, and waterbodies that are adjacent to:

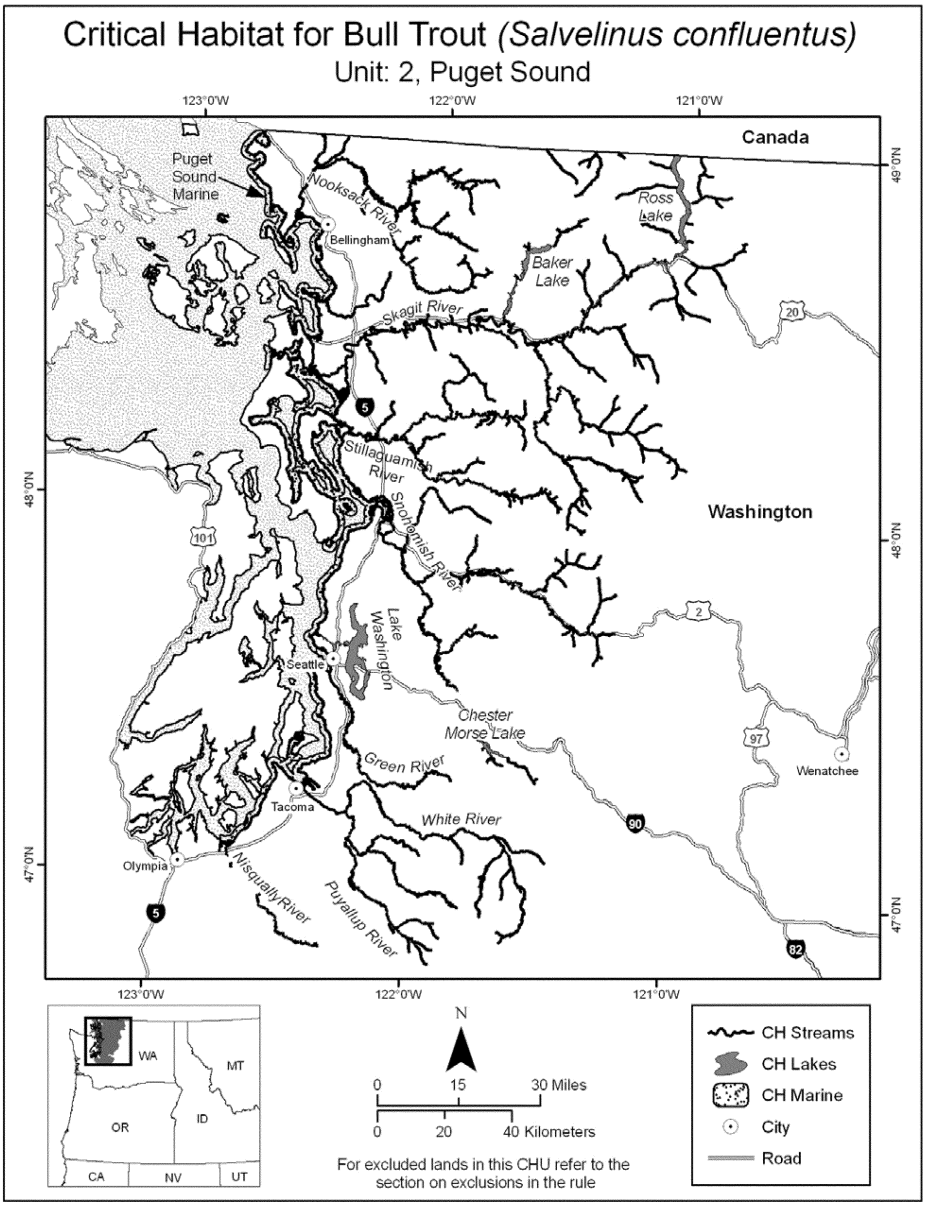
(*1*) Lands held in trust by the United States for their benefit;

(*2*) Lands held in trust by the United States for any Indian Tribe or individual subject to restrictions by the United States against alienation;

(*3*) Fee lands, either within or outside the reservation boundaries, owned by the tribal government; and

(*4*) Fee lands within the reservation boundaries owned by individual Indians.

(iv) Map of Unit 2, Puget Sound follows:



(10) Unit 3: Lower Columbia River Basins

(i) This unit consists of 119.3 km (74.2 mi) of streams. The unit is located in southwestern Washington.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Buck Creek	45.865	−121.579	45.781	−121.515
Clearwater Creek	46.278	−121.331	46.276	−121.328
Cougar Creek	46.071	−122.268	46.055	−122.293
Drift Creek	46.023	−122.090	46.008	−122.078
Fish Lake Stream	46.341	−121.370	46.275	−121.313
Klickitat River	46.255	−121.240	45.691	−121.295
Lake Merwin	45.977	−122.466		
Lewis River	45.957	−122.556	46.066	−122.020
Little Muddy Creek	46.278	−121.353	46.276	−121.328
Muddy River	46.069	−122.007	46.168	−122.034
Phelps Creek	45.892	−121.566	45.881	−121.518
Pine Creek	46.142	−122.096	46.071	−122.017
Rush Creek	46.055	−121.916	46.075	−121.938
Swift Creek	46.084	−122.200	46.086	−122.204
Swift Reservoir	46.056	−122.114		
Trappers Creek	46.289	−121.363	46.276	−121.336
Two Lakes Stream	46.340	−121.385	46.341	−121.370
Unnamed trib. - off Fish Lake Stream	46.323	−121.438	46.331	−121.360
Unnamed trib. ('P10')	46.123	−122.088	46.120	−122.077
Unnamed trib. ('P7')	46.099	−122.069	46.092	−122.059
Unnamed trib. ('P8')	46.104	−122.064	46.140	−122.082
West Fork Klickitat River	46.276	−121.328	46.242	−121.247
White Salmon River	45.897	−121.504	45.722	−121.523
Yale Lake	46.012	−122.312		

(iii) Waterbodies associated with the following tribal lands and habitat conservation plans (HCPs) totaling 155.6 km (96.7 mi) of streams and 4,856.1 ha (11,999.7 ac) of lakes and reservoirs have been excluded from critical habitat designation under section 4(b)(2) of the Act in this unit:

(A) Waterbodies within the geographic area covered by the Washington State Forest Practices Habitat Conservation Plan (HCP) , including portions of Klickitat River, Lewis River, and White Salmon River CHSUs;

(B) Waterbodies within the geographic area covered by the Washington Department of Natural Resources HCP, including portions of Klickitat River, Lewis River, and White Salmon River CHSUs; and

(C) Waterbodies within the geographic area covered by the PacifiCorp Lewis River Hydropower Project Conservation Easement, including portions of Lewis River CHSU.

(D) Waterbodies within the areas under management by the Yakama Nation including the Klickitat River CHSU, within reservation boundaries, and waterbodies that are adjacent to:

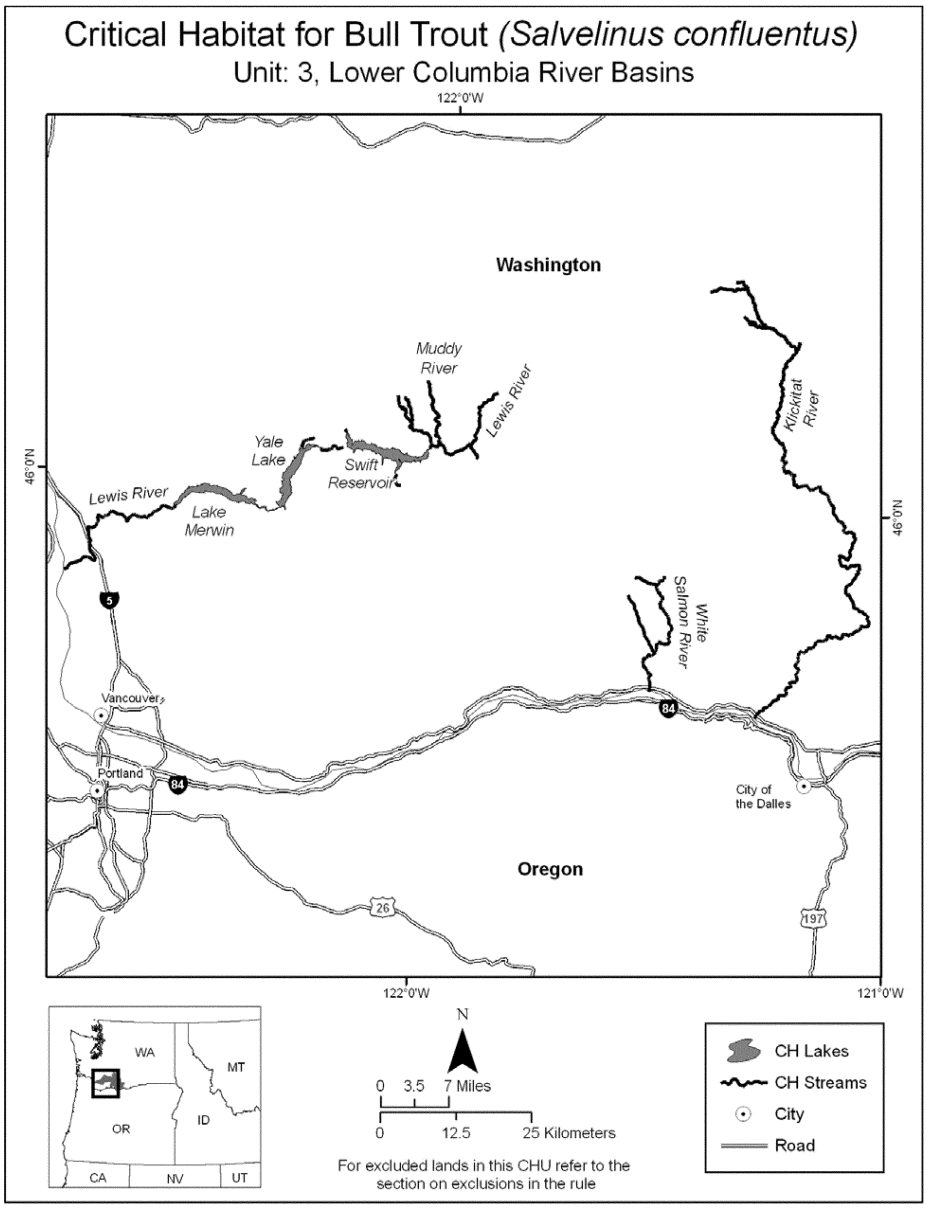
(*1*) Lands held in trust by the United States for their benefit;

(*2*) Lands held in trust by the United States for any Indian Tribe or individual subject to restrictions by the United States against alienation;

(*3*) Fee lands, either within or outside the reservation boundaries, owned by the tribal government; and

(*4*) Fee lands within the reservation boundaries owned by individual Indians.

(iv) Map of Unit 3, Lower Columbia River Basins follows:



(11) Unit 4: Upper Willamette River

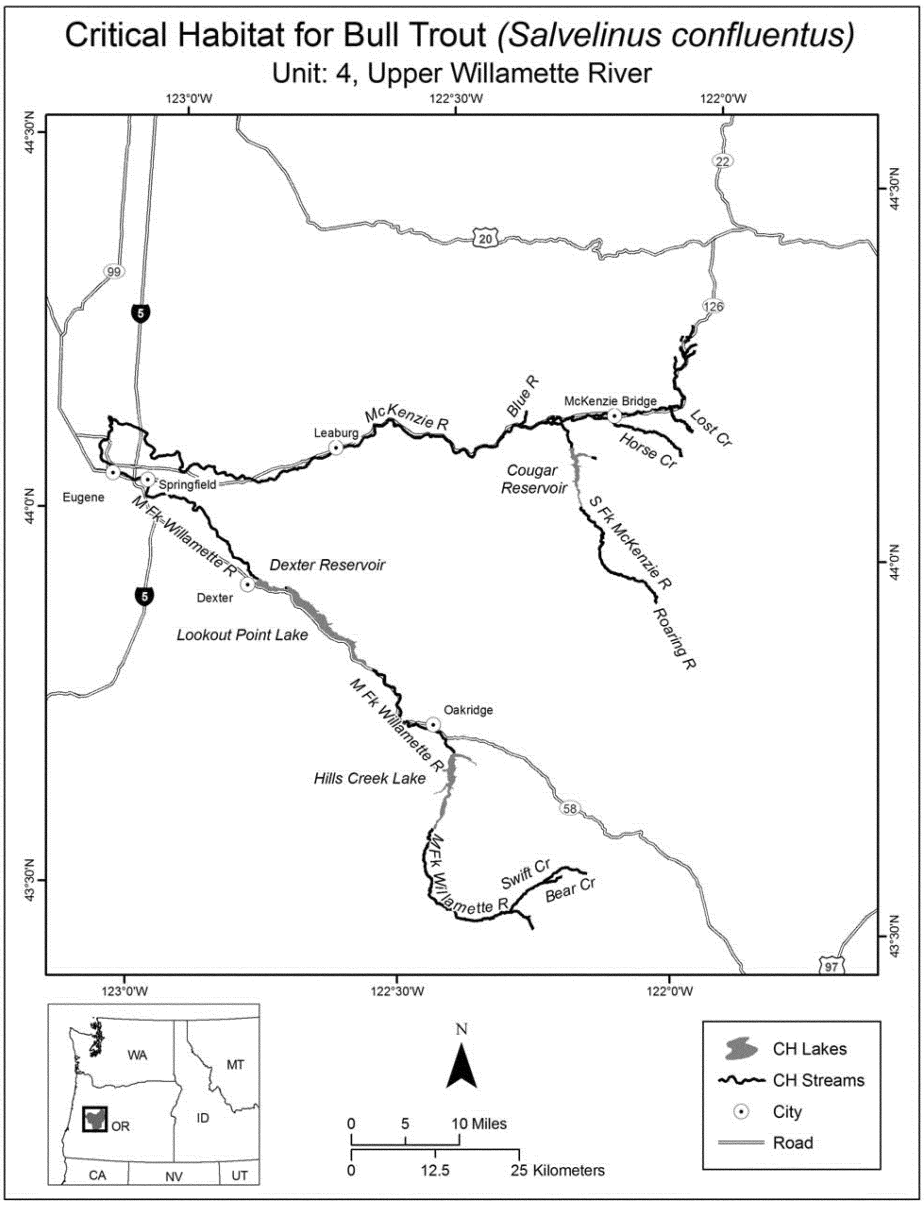
(i) This unit consists of 312.4 km (194.1 mi) of streams and 3,601.5 ha (8,899.5 ac) of lakes and reservoirs. The unit is located in northwestern Oregon.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Anderson Creek	44.258	−122.043	44.278	−122.022
Bear Creek	43.554	−122.209	43.544	−122.244
Blue River	44.172	−122.329	44.153	−122.344
Carmen-Smith Spawning Channel	44.273	−122.051	44.271	−122.052
Cougar Reservoir	44.100	−122.230		
Deer Creek	44.259	−122.063	44.241	−122.058
Dexter Reservoir	43.915	−122.789		
East Fork Horse Creek	44.170	−122.175	44.176	−122.179
East Fork South Fork McKenzie River	44.117	−122.204	44.116	−122.195
Hills Creek Lake	43.671	−122.427		
Horse Creek	44.125	−122.037	44.170	−122.175
Indigo Creek	43.497	−122.262	43.495	−122.268
Lookout Point Lake	43.872	−122.682		
Lost Creek	44.161	−122.018	44.189	−122.067
McKenzie River	44.190	−122.079	44.285	−122.042
Middle Fork Willamette River	43.481	−122.255	44.022	−123.018
Olallie Creek	44.257	−122.042	44.269	−122.025
Roaring River	43.928	−122.066	43.955	−122.092
Smith River	44.279	−122.051	44.287	−122.049
South Fork McKenzie River	43.955	−122.092	44.159	−122.296
Sweetwater Creek	44.283	−122.035	44.279	−122.046
Swift Creek	43.560	−122.163	43.502	−122.300
Trail Bridge Reservoir	44.277	−122.048		
West Fork Horse Creek	44.170	−122.175	44.172	−122.207
White Branch	44.160	−122.019	44.167	−122.030
Willamette River	44.022	−123.018	44.125	−123.107

(iii) No waterbodies are excluded from critical habitat designation in this unit.

(iv) Map of Unit 4, Upper Willamette River follows:



(12) Unit 5: Hood River Basin

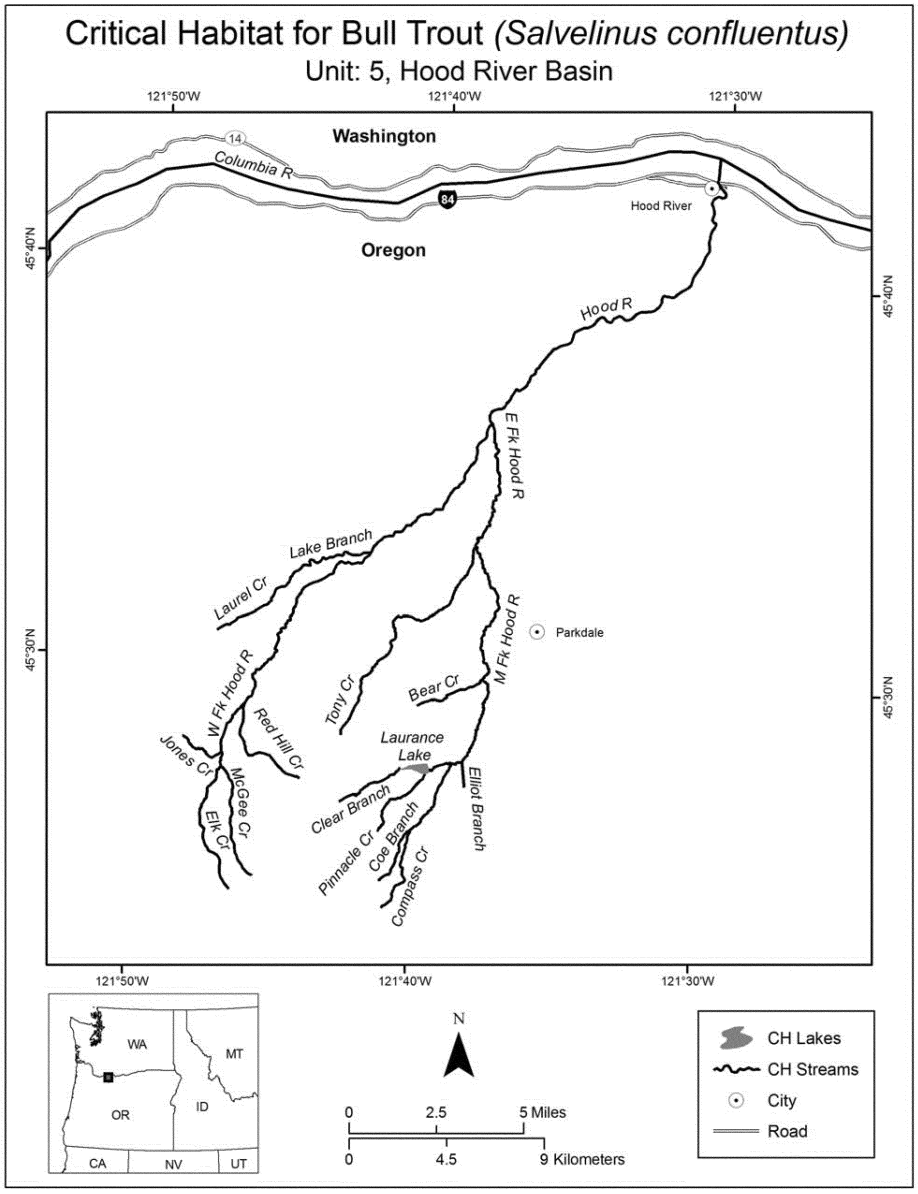
(i) This unit consists of 128.1 km (79.6 mi) of streams and 36.9 ha (91.1 ac) of lakes and reservoirs. The unit is located in northcentral Oregon.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Bear Creek	45.499	−121.630	45.486	−121.668
Clear Branch	45.444	−121.711	45.463	−121.646
Coe Branch	45.413	−121.685	45.463	−121.646
Compass Creek	45.401	−121.683	45.434	−121.668
East Fork Hood River	45.575	−121.627	45.605	−121.633
Elk Creek	45.405	−121.773	45.456	−121.782
Elliot Branch	45.464	−121.640	45.453	−121.638
Hood River	45.605	−121.633	45.720	−121.507
Jones Creek	45.462	−121.782	45.468	−121.806
Lake Branch	45.539	−121.743	45.549	−121.700
Laurance Lake	45.460	−121.665		
Laurel Creek	45.513	−121.789	45.539	−121.743
McGee Creek	45.456	−121.782	45.411	−121.760
Middle Fork Hood River	45.463	−121.646	45.575	−121.627
Pinnacle Creek	45.433	−121.687	45.458	−121.661
Red Hill Creek	45.453	−121.735	45.483	−121.770
Tony Creek	45.553	−121.639	45.472	−121.712
Unnamed - Off Clear Branch	45.448	−121.701	45.447	−121.702
West Fork Hood River	45.456	−121.782	45.605	−121.633

(iii) No waterbodies are excluded from critical habitat designation in this unit.

(iv) Map of Unit 5, Hood River Basin follows:



(13) Unit 6: Lower Deschutes River Basin

(i) This unit consists of 232.8 km (139.7 mi) of streams and 1,224.9 ha (3,026.8 ac) of lakes and reservoirs. The unit is located in northcentral Oregon.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Abbot Creek	44.544	−121.671	44.570	−121.621
Blue Lake	44.413	−121.769		
Brush Creek	44.543	−121.707	44.504	−121.659
Bunch Grass Creek	44.993	−121.647	44.987	−121.644
Candle Creek	44.583	−121.678	44.576	−121.619
Canyon Creek	44.502	−121.742	44.501	−121.643
Crooked River	44.393	−121.193	44.501	−121.286
Deschutes River	44.373	−121.292	45.639	−120.915
Heising Spring	44.491	−121.652	44.493	−121.649
Jack Creek	44.472	−121.727	44.493	−121.648
Jefferson Creek	44.625	−121.691	44.577	−121.620
Lake Billy Chinook	44.568	−121.308		
Lake Billy Chinook	44.593	−121.370		
Lake Creek	44.426	−121.727	44.436	−121.703
Link Creek	44.415	−121.766	44.419	−121.756
Metolius River	44.434	−121.638	44.619	−121.469
Middle Fork Lake Creek	44.436	−121.703	44.453	−121.643
Roaring Creek	44.527	−121.709	44.508	−121.687
Shitike Creek	44.748	−121.682	44.762	−121.228
South Fork Lake Creek	44.435	−121.705	44.442	−121.662
Spring Creek	44.457	−121.644	44.451	−121.651
Street Creek	44.590	−121.506	44.599	−121.454
Suttle Lake	44.422	−121.741		
Trout Creek	44.803	−121.069	44.821	−121.089
Unnamed - Off Canyon Creek	44.527	−121.679	44.504	−121.658
Unnamed - Off Jack Creek	44.476	−121.725	44.476	−121.723
Unnamed - Off Jack Creek	44.477	−121.724	44.476	−121.723
Unnamed - Off Jack Creek	44.477	−121.724	44.477	−121.724
Unnamed - Off Jefferson Creek	44.634	−121.699	44.625	−121.691
Unnamed - Off Roaring Creek	44.522	−121.700	44.516	−121.700
Unnamed - Off Roaring Creek	44.522	−121.700	44.521	−121.700
Unnamed - Off Roaring Creek	44.516	−121.712	44.516	−121.700
Warm Springs River 1	44.941	−121.431	44.941	−121.431
Warm Springs River 2	44.969	−121.585	44.969	−121.585
Whitewater River	44.704	−121.728	44.670	−121.546
Whychus Creek	44.460	−121.336	44.417	−121.389

(iii) Waterbodies associated with the following tribal lands totaling 230.4 km (143.2 mi) of streams and 445.3 ha (1,100.4 ac) of lakes and reservoirs have been excluded from critical habitat designation under section 4(b)(2) of the Act in this unit. These are waterbodies within the areas under management by the Confederated Tribes of the Warm Springs Reservation within reservation boundaries, and waterbodies that are adjacent to:

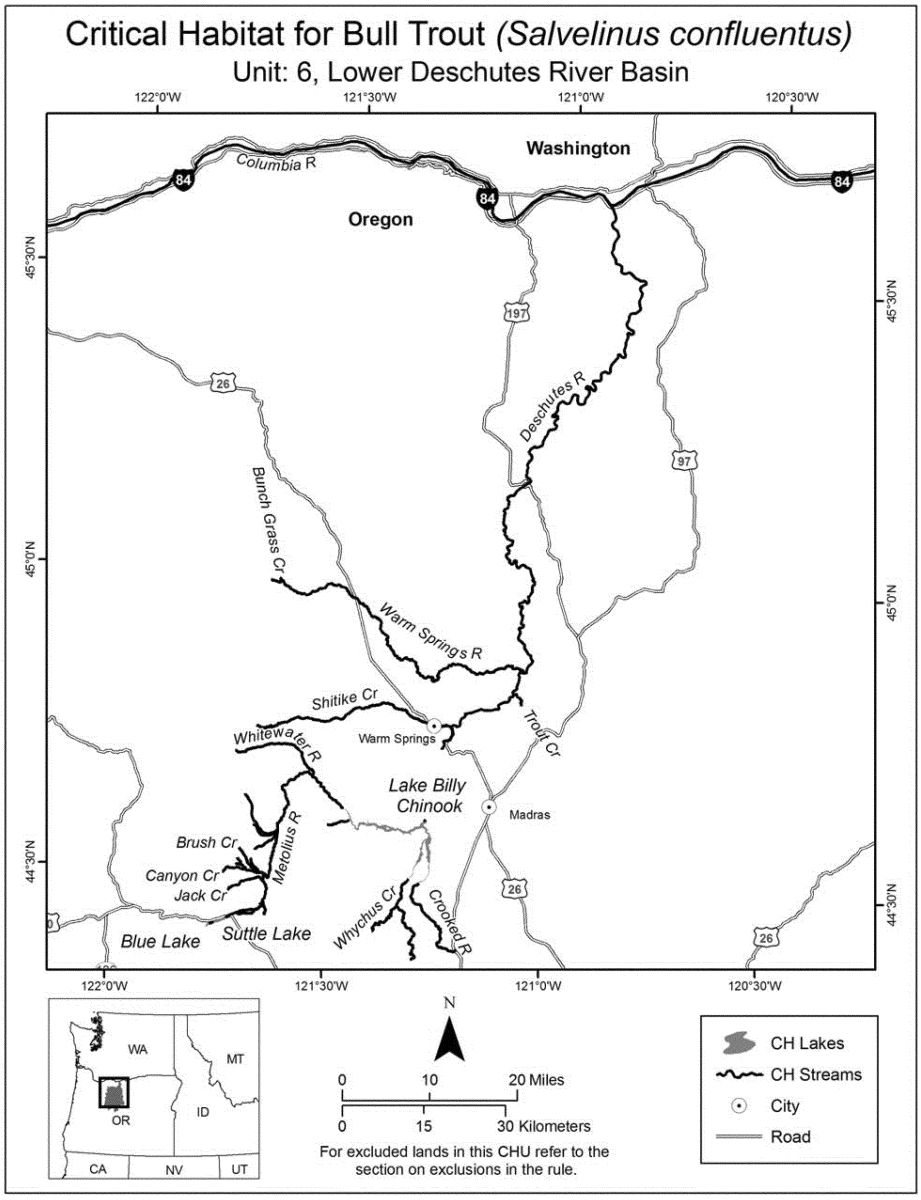
(A) Lands held in trust by the United States for their benefit;

(B) Lands held in trust by the United States for any Indian Tribe or individual subject to restrictions by the United States against alienation;

(C) Fee lands, either within or outside the reservation boundaries, owned by the tribal government; and

(D) Fee lands within the reservation boundaries owned by individual Indians.

(iv) Map of Unit 6, Lower Deschutes River Basin follows:



(14) Unit 7: Odell Lake

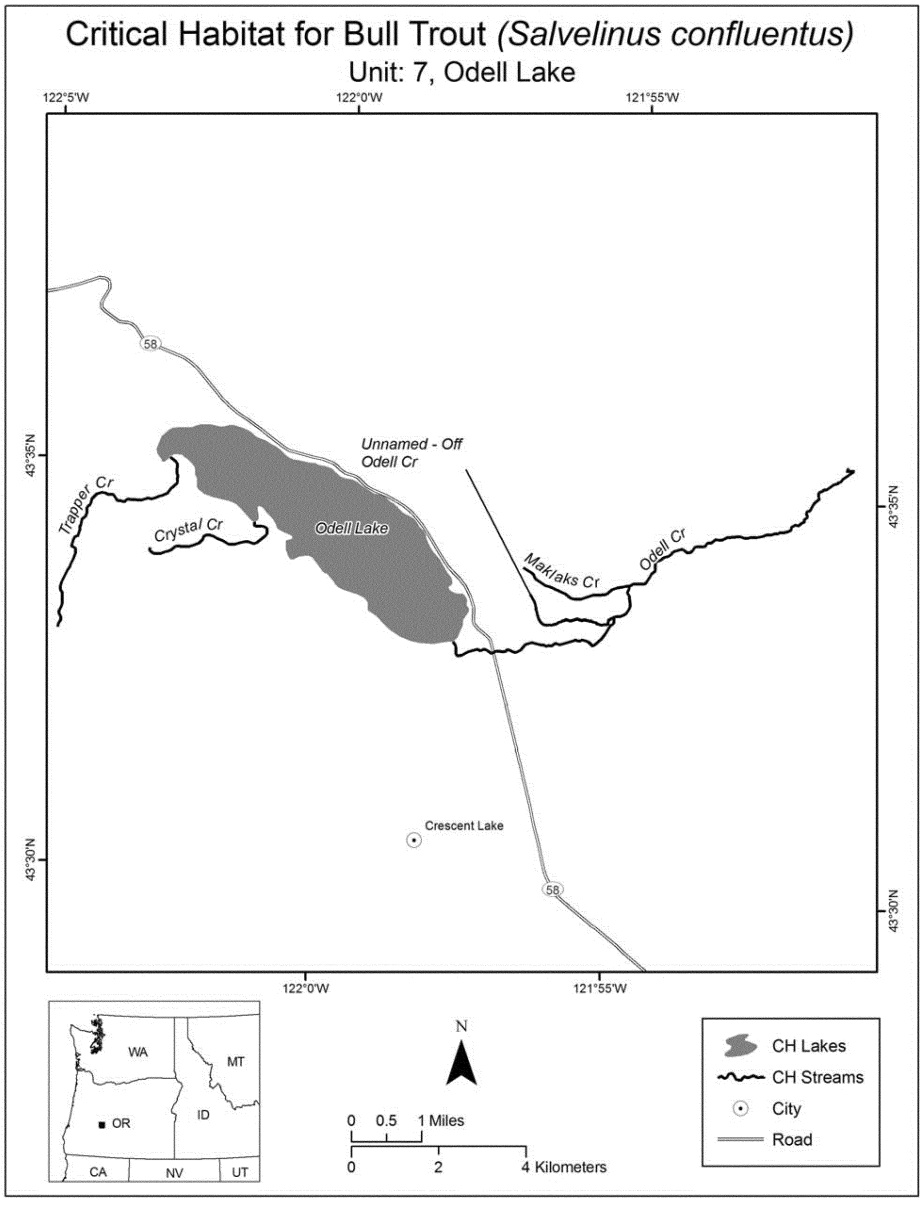
(i) This unit consists of 27.4 km (17.0 mi) of streams and 1,387.1 ha (3,427.6 ac) of lakes and reservoirs. The unit is located in northcentral Oregon.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Crystal Creek	43.566	−122.052	43.572	−122.022
Maklaks Creek	43.566	−121.945	43.564	−121.915
Odell Creek	43.550	−121.964	43.591	−121.855
Odell Lake	43.572	−122.001		
Trapper Creek	43.548	−122.076	43.585	−122.048
Unnamed - Off Odell Creek	43.557	−121.919	43.561	−121.943

(iii) No waterbodies are excluded from critical habitat designation in this unit.

(iv) Map of Unit 7, Odell Lake follows:



(15) Unit 8: Mainstem Lower Columbia River

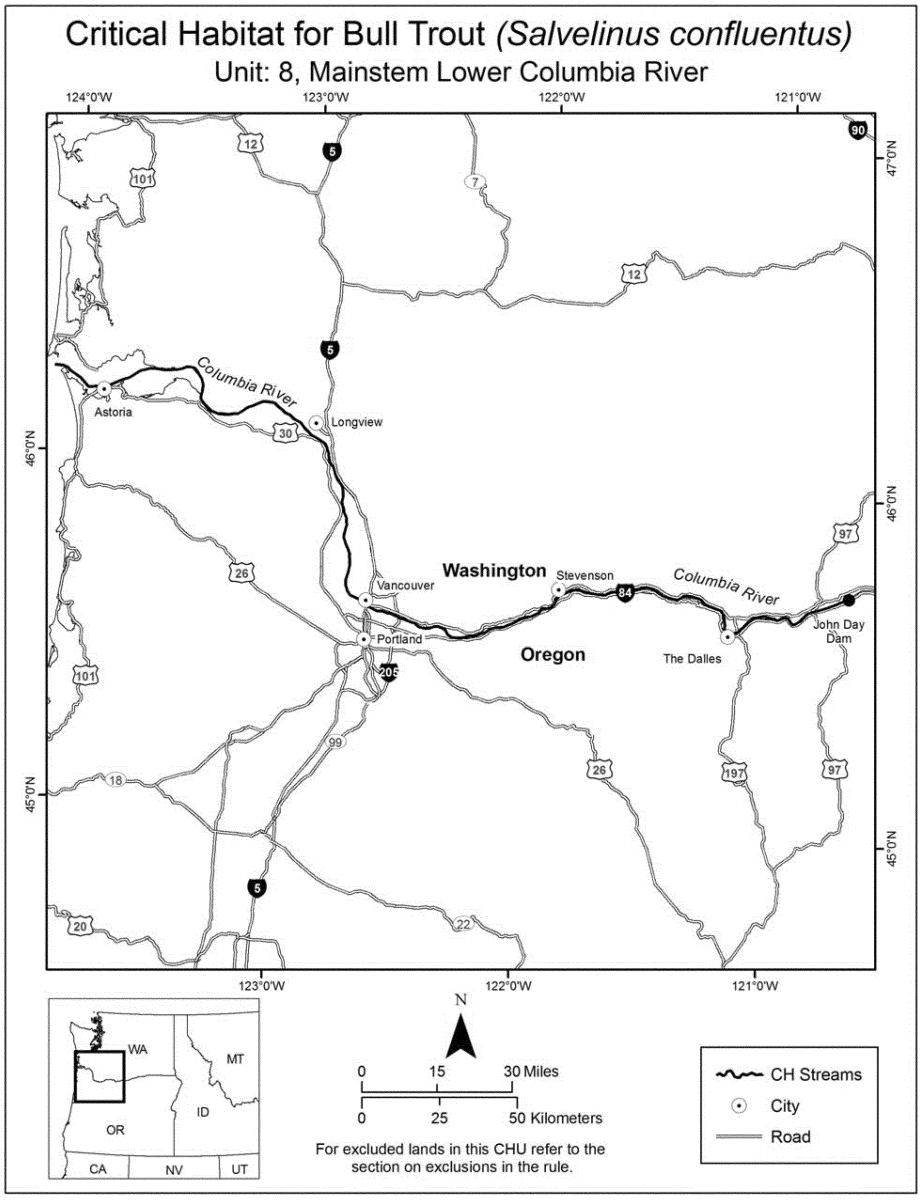
(i) This unit consists of 340.4 km (211.5 mi) of streams. The unit is located along the border between Oregon and Washington.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Columbia River	45.645	−121.933	45.800	−122.787

(iii) Waterbodies associated with the following habitat conservation plan (HCP) totaling 1.7 km (1.1 mi) of streams have been excluded from critical habitat designation under section 4(b)(2) of the Act in this unit. These are waterbodies within the geographic area covered by the Washington State Forest Practices Habitat Conservation Plan (HCP).

(iv) Map of Unit 8, Mainstem Lower Columbia River follows:



(16) Unit 9: Klamath River Basin

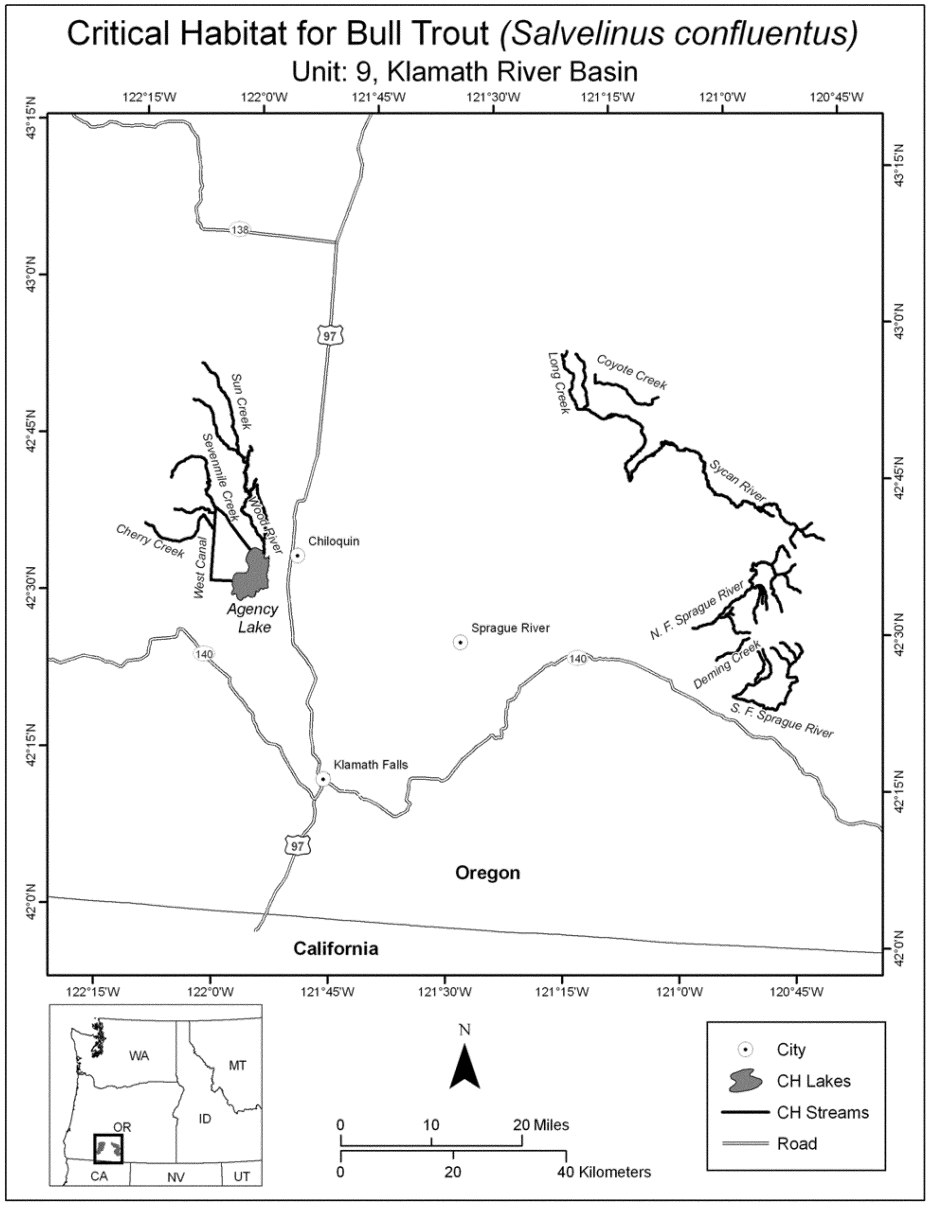
(i) This unit consists of 445.2 km (276.6 mi) of streams and 3,775.5 ha (9,329.4 ac) of lakes and reservoirs. The unit is located in southwestern Oregon.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Agency Lake	42.541	−121.964		
Annie Creek	42.721	−121.990	42.817	−122.113
Boulder Creek	42.660	−120.784	42.673	−120.762
Boulder Creek	42.517	−120.952	42.494	−120.885
Brownsworth Creek	42.392	−120.914	42.469	−120.855
Calahan Creek	42.838	−121.267	42.924	−121.292
Camp Creek	42.445	−120.795	42.471	−120.838
Cherry Creek	42.615	−122.201	42.631	−122.074
Corral Creek	42.455	−120.783	42.480	−120.819
Coyote Creek	42.862	−121.109	42.893	−121.247
Crane Creek	42.638	−122.052	42.642	−122.065
Crooked Creek	42.598	−121.946	42.686	−121.965
Dead Cow Creek	42.590	−120.837	42.562	−120.781
Deming Creek	42.448	−120.954	42.486	−120.886
Dixon Creek	42.518	−120.938	42.532	−120.925
Fort Creek	42.695	−121.968	42.672	−121.980
Fourmile Creek	42.612	−122.051	42.633	−122.077
Gearhart Creek	42.566	−120.887	42.510	−120.872
Gold Creek	42.590	−120.819	42.606	−120.795
Hole Creek	42.567	−120.870	42.541	−120.861
Leonard Creek	42.413	−120.868	42.465	−120.865
Long Creek	42.726	−121.160	42.831	−121.200
North Fork Sprague River	42.497	−121.009	42.557	−120.840
Nottin Creek	42.570	−120.871	42.532	−120.851
Rifle Creek	42.694	−120.881	42.682	−120.846
School Creek	42.604	−120.847	42.618	−120.808
Sevenmile Canal	42.582	−121.971	42.646	−122.052
Sevenmile Creek	42.646	−122.052	42.690	−122.151
South Fork Sprague River	42.392	−120.914	42.481	−120.785
South Fork Sycan River	42.663	−120.794	42.633	−120.796
Sun Creek	42.734	−122.009	42.876	−122.100
Sycan River	42.647	−120.735	42.784	−121.095
Threemile Creek	42.642	−122.065	42.640	−122.139
Unnamed - Off Dixon Creek	42.523	−120.931	42.521	−120.922
Unnamed - Off Long Creek	42.873	−121.299	42.870	−121.296
West Canal	42.646	−122.052	42.531	−122.005
Wood River	42.577	−121.941	42.747	−121.985

(iii) No waterbodies are excluded from critical habitat designation in this unit.

(iv) Map of Unit 9, Klamath River Basin follows:



(17) Unit 10: Upper Columbia River Basins

(i) This unit consists of 931.8 km (579.0 mi) of streams and 1,033.2 ha (2,553.1 ac) of lakes and reservoirs. The unit is located in northcentral Washington.

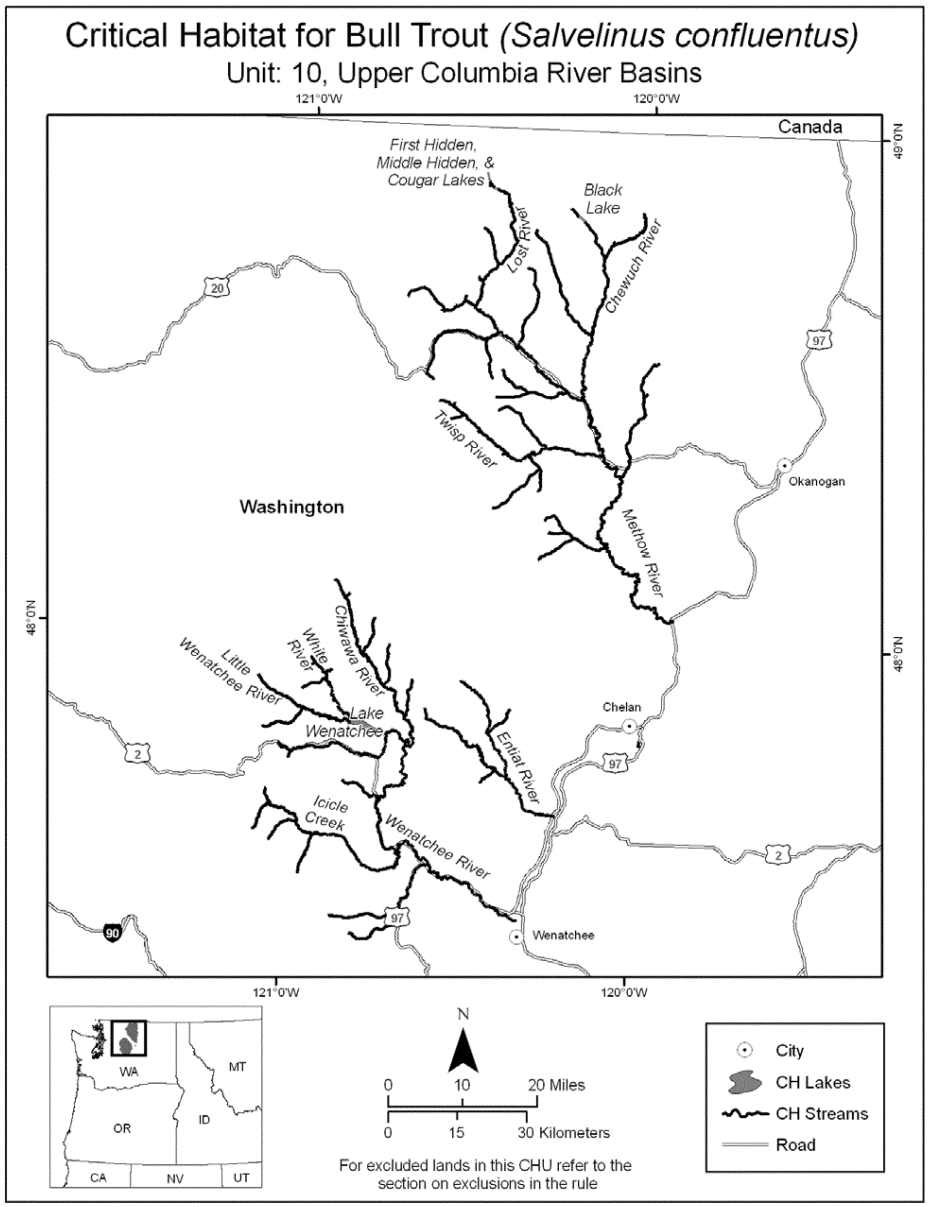
(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Alder Creek	47.845	−120.666	47.919	−120.647
Alpine Creek	48.084	−120.864	48.083	−120.866
Andrews Creek	48.782	−120.108	48.787	−120.113
Beaver Creek	48.327	−120.066	48.492	−119.993
Black Lake	48.829	−120.208		
Blue Buck Creek	48.486	−120.005	48.553	−119.963
Buck Creek	48.104	−120.878	48.106	−120.886
Buttermilk Creek	48.363	−120.339	48.340	−120.303
Canyon Creek	47.907	−120.895	47.891	−120.965
Cedar Creek	48.589	−120.471	48.566	−120.475
Chelan River	47.803	−119.980	47.812	−119.985
Chewuch River	48.476	−120.183	48.844	−120.023
Chikamin Creek	47.904	−120.731	47.985	−120.718
Chiwaukum Creek	47.679	−120.728	47.715	−120.839
Chiwawa River	47.788	−120.660	48.104	−120.878
Cougar Lake	48.881	−120.466		
Crater Creek	48.214	−120.209	48.215	−120.270
Diamond Creek	48.849	−120.422	48.855	−120.416
Drake Creek	48.781	−120.396	48.787	−120.389
Early Winters Creek	48.601	−120.438	48.503	−120.625
East Fork Buttermilk Creek	48.340	−120.303	48.296	−120.308
Eightmile Creek	48.604	−120.163	48.804	−120.338
Entiat River	47.660	−120.218	47.920	−120.507
Eureka Creek	48.700	−120.492	48.709	−120.506
First Hidden Lake	48.899	−120.487		
Foggy Dew Creek	48.204	−120.190	48.161	−120.297
French Creek	47.628	−120.963	47.593	−121.042
Goat Creek	48.574	−120.379	48.730	−120.360
Gold Creek	48.188	−120.095	48.185	−120.116
Henry Creek	47.768	−120.991	47.754	−120.996
Huckleberry Creek	48.569	−120.473	48.511	−120.450
Icicle Creek	47.550	−120.679	47.558	−120.672
Ingalls Creek	47.463	−120.661	47.448	−120.859
Jack Creek	47.608	−120.900	47.529	−120.952
James Creek	48.077	−120.858	48.075	−120.861
Lake Creek	48.750	−120.137	48.848	−120.239
Lake Wenatchee	47.823	−120.778		
Leland Creek	47.662	−121.041	47.612	−121.089
Lightning Creek	48.451	−119.999	48.453	−119.996
Little Bridge Creek	48.379	−120.286	48.449	−120.432
Little Wenatchee River	47.827	−120.819	47.913	−121.094
Lost River	48.650	−120.512	48.896	−120.486
Mad River	47.736	−120.363	47.864	−120.608
Methow River	48.050	−119.894	48.651	−120.513
Middle Hidden Lake	48.908	−120.489		
Mill Creek	47.777	−121.011	47.772	−121.021
Monument Creek	48.732	−120.449	48.803	−120.495
Napeequa River	47.921	−120.897	47.931	−120.879
Nason Creek	47.809	−120.716	47.784	−121.028
Negro Creek	47.444	−120.662	47.418	−120.797
North Creek	48.454	−120.563	48.462	−120.559
North Fork Gold Creek	48.185	−120.116	48.238	−120.283
North Fork Wolf Creek	48.485	−120.347	48.530	−120.424
Panther Creek	47.941	−120.929	47.938	−120.943
Peshastin Creek	47.558	−120.574	47.444	−120.662
Phelps Creek	48.070	−120.853	48.080	−120.839
Ptarmigan Creek	48.891	−120.482	48.885	−120.483
Rainy Creek	47.852	−120.955	47.816	−121.075
Rattlesnake Creek	48.648	−120.566	48.651	−120.571
Reynolds Creek	48.406	−120.479	48.404	−120.490
Robinson Creek	48.659	−120.538	48.673	−120.539
Rock Creek	47.963	−120.796	48.037	−120.763
South Creek	48.438	−120.529	48.428	−120.568
Stormy Creek	47.822	−120.422	47.867	−120.360
Tillicum Creek	47.747	−120.394	47.723	−120.439
Trout Creek	48.640	−120.599	48.664	−120.711
Twisp River	48.369	−120.119	48.464	−120.606
Unnamed stream	47.592	−120.661	47.590	−120.663
Unnamed stream	47.578	−120.666	47.575	−120.670
Unnamed stream	47.834	−120.875	47.838	−120.900
Unnamed stream	47.837	−120.878	47.835	−120.885

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
W. Fork Buttermilk Creek	48.340	−120.303	48.259	−120.437
War Creek	48.361	−120.396	48.362	−120.411
Wenatchee River	47.456	−120.317	47.808	−120.728
West Fork Methow River	48.648	−120.512	48.641	−120.609
White River	47.834	−120.816	47.953	−120.940
Wolf Creek	48.491	−120.232	48.476	−120.441

(iii) Waterbodies associated with the following habitat conservation plan (HCP) totaling 119.7 km (74.4 mi) of streams have been excluded from critical habitat designation under section 4(b)(2) of the Act in this unit. These are waterbodies within the geographic area covered by the Washington State Forest Practices Habitat Conservation Plan (HCP) , including portions of Entiat River, Methow River, and Wenatchee River CHSUs.

(iv) Map of Unit 10, Upper Columbia River Basins follows:



(18) Unit 11: Yakima River

(i) This unit consists of 896.9 km (557.3 mi) of streams and 6,285.2 ha (15,530.9 ac) of lakes and reservoirs. The unit is located in central Washington.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Ahtanum Creek	46.529	−120.473	46.523	−120.855
American River	46.976	−121.158	46.901	−121.416
Bear Creek	46.538	−121.261	46.540	−121.282
Box Canyon Creek	47.360	−121.244	47.377	−121.259
Bumping Lake	46.851	−121.328		
Bumping River	46.831	−121.378	46.868	−121.300
Camp Creek	46.571	−121.243	46.579	−121.266
Cle Elum Lake	47.290	−121.103		
Cle Elum River	47.177	−120.991	47.589	−121.162
Clear Lake	46.629	−121.281		
Cold Creek	47.368	−121.394	47.352	−121.455
Cooper Lake	47.426	−121.176		
Cooper River	47.390	−121.099	47.455	−121.214
Cowiche Creek	46.628	−120.569	46.647	−120.682
Crow Creek	47.015	−121.134	47.017	−121.318
Deep Creek	46.844	−121.317	46.804	−121.322
DeRoux Creek	47.419	−120.941	47.442	−120.980
Dog Creek	46.787	−121.169	46.793	−121.178
Easton Lake	47.248	−121.195		
Fall Creek	46.586	−121.038	46.595	−121.060
Fortune Creek	47.477	−121.047	47.469	−120.965
Gold Creek	47.475	−121.318	47.390	−121.384
Grey Creek	46.591	−121.223	46.594	−121.226
Hindoo Creek	46.785	−121.164	46.781	−121.183
Hyas Lake	47.567	−121.121		
Indian Creek	46.696	−121.301	46.641	−121.250
Jack Creek	47.319	−120.856	47.334	−120.744
Jungle Creek	47.333	−120.856	47.333	−120.925
Kachess Lake	47.316	−121.228		
Kachess River	47.251	−121.201	47.429	−121.223
Keechelus Lake	47.349	−121.368		
Kettle Creek	46.941	−121.328	46.916	−121.342
Little Naches River	46.989	−121.095	47.089	−121.282
Little Rattlesnake Creek	46.814	−120.949	46.801	−120.948
Little Wildcat Creek	46.731	−121.236	46.687	−121.267
Middle Fork Ahtanum Creek	46.518	−121.015	46.506	−121.180
Middle Fork Teanaway River	47.257	−120.898	47.419	−120.994
Mineral Creek	47.420	−121.241	47.422	−121.246
Naches River	46.630	−120.515	46.989	−121.095
North Fork Ahtanum Creek	46.523	−120.855	46.538	−121.212
North Fork Little Naches River	47.089	−121.282	47.094	−121.392
North Fork Rattlesnake Creek	46.810	−121.068	46.841	−121.170
North Fork Taneaum Creek	47.112	−120.933	47.109	−121.145
North Fork Teanaway River	47.251	−120.878	47.454	−120.966
North Fork Tieton River	46.508	−121.436	46.628	−121.271
Oak Creek	46.724	−120.813	46.735	−120.924
Pileup Creek	47.045	−121.183	47.090	−121.124
Quartz Creek	47.017	−121.135	47.082	−121.109
Rattlesnake Creek	46.820	−120.930	46.759	−121.316
Reynolds Creek	46.619	−120.882	46.601	−121.068
Rimrock Lake	46.639	−121.180		
Rock Creek	46.585	−121.025	46.588	−121.079
Shellneck Creek	46.531	−121.159	46.515	−121.188
Short And Dirty Creek	46.617	−121.150	46.616	−121.149
South Fork Ahtanum Creek	46.523	−120.855	46.454	−121.119
South Fork Cowiche Creek	46.647	−120.682	46.566	−121.124
South Fork Little Naches River	47.066	−121.227	47.020	−121.392
South Fork Taneaum Creek	47.112	−120.933	47.091	−121.030
South Fork Tieton River	46.627	−121.133	46.496	−121.315
Spruce Creek	46.590	−121.219	46.586	−121.212
Stafford Creek	47.347	−120.849	47.398	−120.802
Swauk Creek	47.123	−120.738	47.158	−120.739
Taneaum Creek	47.092	−120.709	47.112	−120.933
Teanaway River	47.167	−120.835	47.257	−120.898
Tieton River	46.746	−120.787	46.656	−121.130
Timber Creek	46.913	−121.386	46.907	−121.382
Union Creek	46.932	−121.358	46.937	−121.362
Unnamed stream	46.545	−121.388	46.550	−121.403
Waptus Lake	47.503	−121.178		
Waptus River	47.419	−121.088	47.540	−121.241
Yakima River	46.254	−119.228	47.322	−121.340

(iii) Waterbodies associated with the following tribal lands or habitat conservation plans (HCPs) totaling 288.7 km (179.4 mi) of streams have been excluded from critical habitat designation under section 4(b)(2) of the Act in this unit:

(A) Waterbodies within the geographic area covered by the Washington State Forest Practices Habitat Conservation Plan (HCP) , including portions of the Yakima River Critical Habitat Unit (CHU);

(B) Waterbodies within the geographic area covered by the Plum Creek Central Cascades HCP, including portions of the Yakima River CHU; and

(C) Waterbodies within the areas under management by the Yakama Tribe, including portions of Yakama River CHU and Klickitat River CHSU, within reservation boundaries, and waterbodies that are adjacent to:

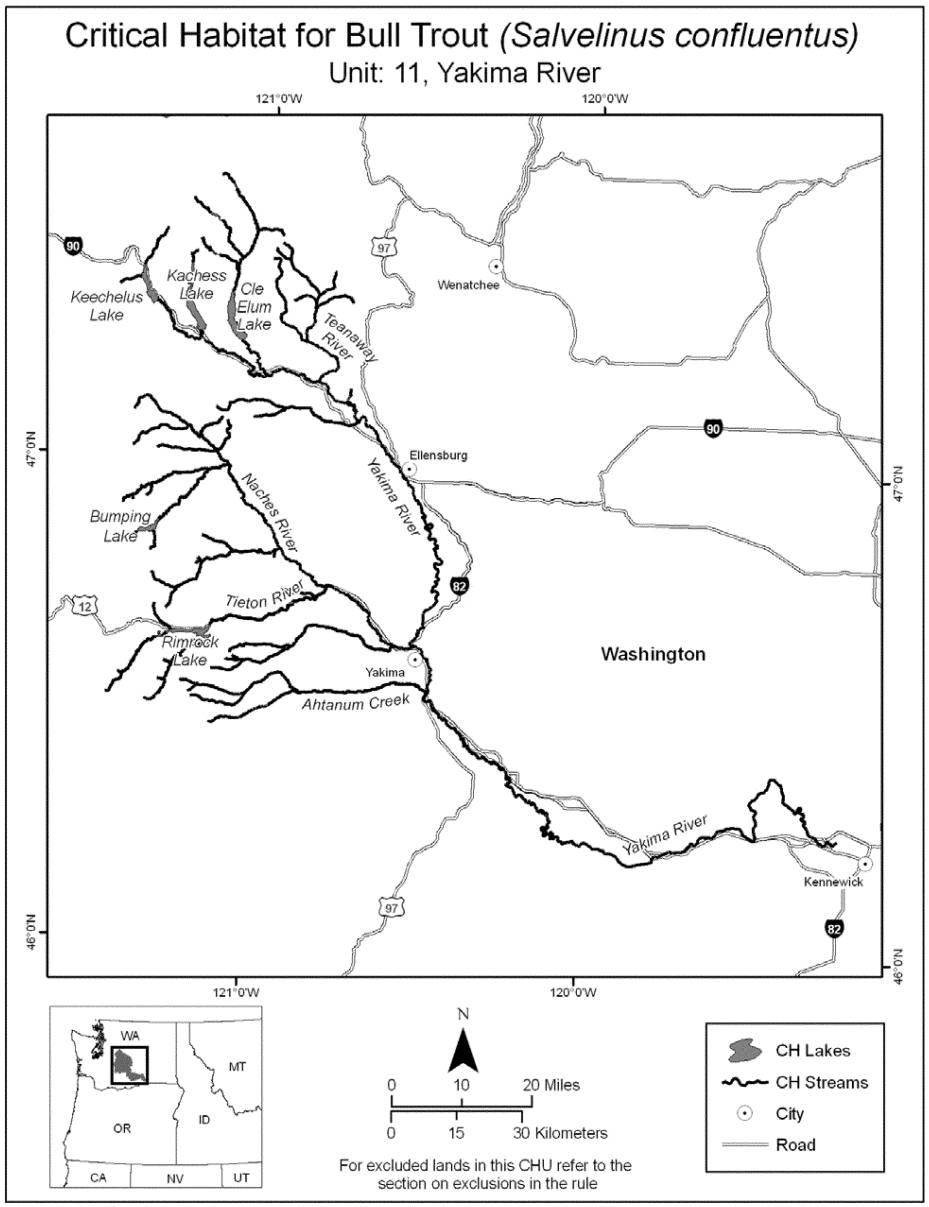
(*1*) Lands held in trust by the United States for their benefit;

(*2*) Lands held in trust by the United States for any Indian Tribe or individual subject to restrictions by the United States against alienation;

(*3*) Fee lands, either within or outside the reservation boundaries, owned by the tribal government; and

(*4*) Fee lands within the reservation boundaries owned by individual Indians.

(iv) Map of Unit 11, Yakima River follows:



(19) Unit 12: John Day River Basin

(i) This unit consists of 1,089.6 km (677.0 mi) of streams. The unit is located in northcentral Oregon.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Baldy Creek	44.850	−118.305	44.910	−118.318
Big Creek	44.976	−118.651	44.960	−118.683
Big Creek	44.765	−118.686	44.766	−118.874
Boulder Creek	44.840	−118.333	44.819	−118.415
Boundary Creek	44.811	−118.343	44.787	−118.375
Bull Run Creek	44.768	−118.291	44.808	−118.425
Butte Creek	44.585	−118.644	44.642	−118.652
Call Creek	44.286	−118.507	44.320	−118.557
Clear Creek	44.749	−118.546	44.821	−118.450
Clear Creek	44.447	−118.431	44.593	−118.508
Crane Creek	44.868	−118.330	44.894	−118.478
Crawfish Creek	44.931	−118.234	44.915	−118.298
Cunningham Creek	44.911	−118.267	44.920	−118.235
Deadwood Creek	44.750	−118.719	44.768	−118.793
Deardorff Creek	44.383	−118.423	44.395	−118.577
Deep Creek	44.815	−118.306	44.780	−118.348
Desolation Creek	44.820	−118.689	44.998	−118.936
Dry Creek	44.729	−118.531	44.750	−118.500
Granite Boulder Creek	44.726	−118.611	44.647	−118.665
Granite Creek	44.857	−118.343	44.866	−118.562
Indian Creek	44.295	−118.736	44.443	−118.800
John Day River	44.250	−118.527	45.737	−120.652
Lightning Creek	44.718	−118.494	44.765	−118.497
Middle Fork John Day River	44.593	−118.508	44.917	−119.301
North Fork John Day River	44.866	−118.239	44.755	−119.639
North Reynolds Creek	44.430	−118.425	44.423	−118.517
Onion Creek	44.889	−118.339	44.913	−118.401
Rail Creek	44.297	−118.490	44.349	−118.575
Reynolds Creek	44.405	−118.440	44.414	−118.596
Roberts Creek	44.276	−118.575	44.348	−118.575
Salmon Creek	44.717	−118.542	44.725	−118.503
South Fork Desolation Creek	44.719	−118.623	44.820	−118.689
South Trail Creek	44.953	−118.274	44.937	−118.390
Trail Creek	44.937	−118.390	44.915	−118.406
Vinegar Creek	44.707	−118.550	44.601	−118.536
West Fork Clear Creek	44.733	−118.584	44.749	−118.546
West Fork Meadow Brook	44.969	−118.966	44.997	−118.945
Winom Creek	45.050	−118.611	44.976	−118.671

(iii) Waterbodies associated with the following tribal lands totaling 28.5 km (17.7 mi) of streams have been excluded from critical habitat designation under section 4(b)(2) of the Act in this unit. These are waterbodies within the areas under management by the Confederated Tribes of the Warm Springs Reservation, within reservation boundaries, and waterbodies that are adjacent to:

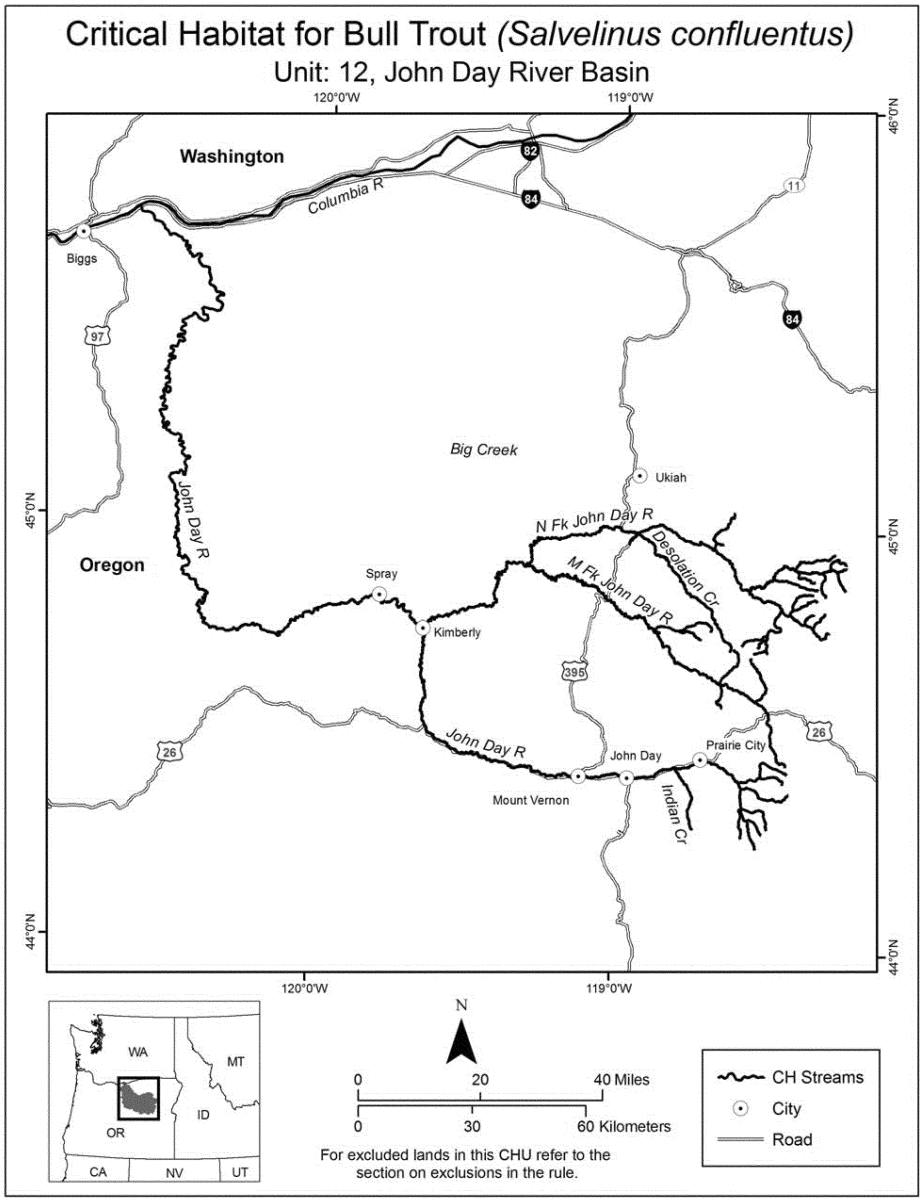
(A) Lands held in trust by the United States for their benefit;

(B) Lands held in trust by the United States for any Indian Tribe or individual subject to restrictions by the United States against alienation;

(C) Fee lands, either within or outside the reservation boundaries, owned by the tribal government; and

(D) Fee lands within the reservation boundaries owned by individual Indians.

(iv) Map of Unit 12, John Day River Basin follows:



(20) Unit 13: Umatilla River Basin

(i) This unit consists of 163.0 km (101.3 mi) of streams. The unit is located in northeastern Oregon.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Coyote Creek	45.745	−118.137	45.732	−118.139
Meacham Creek	45.486	−118.275	45.702	−118.360
North Fork Meacham Creek	45.584	−118.164	45.527	−118.291
North Fork Umatilla River	45.705	−118.034	45.726	−118.189
Pot Creek	45.523	−118.163	45.554	−118.201
Ryan Creek	45.694	−118.309	45.723	−118.315
Umatilla River	45.726	−118.189	45.923	−119.357
Woodward Creek	45.750	−118.076	45.736	−118.080

(iii) Waterbodies associated with the following tribal lands totaling 48.7 km (30.3 mi) of streams have been excluded from critical habitat designation under section 4(b)(2) of the Act in this unit. These are waterbodies within the areas under management by the Confederated Tribes of the Umatilla, and waterbodies that are adjacent to:

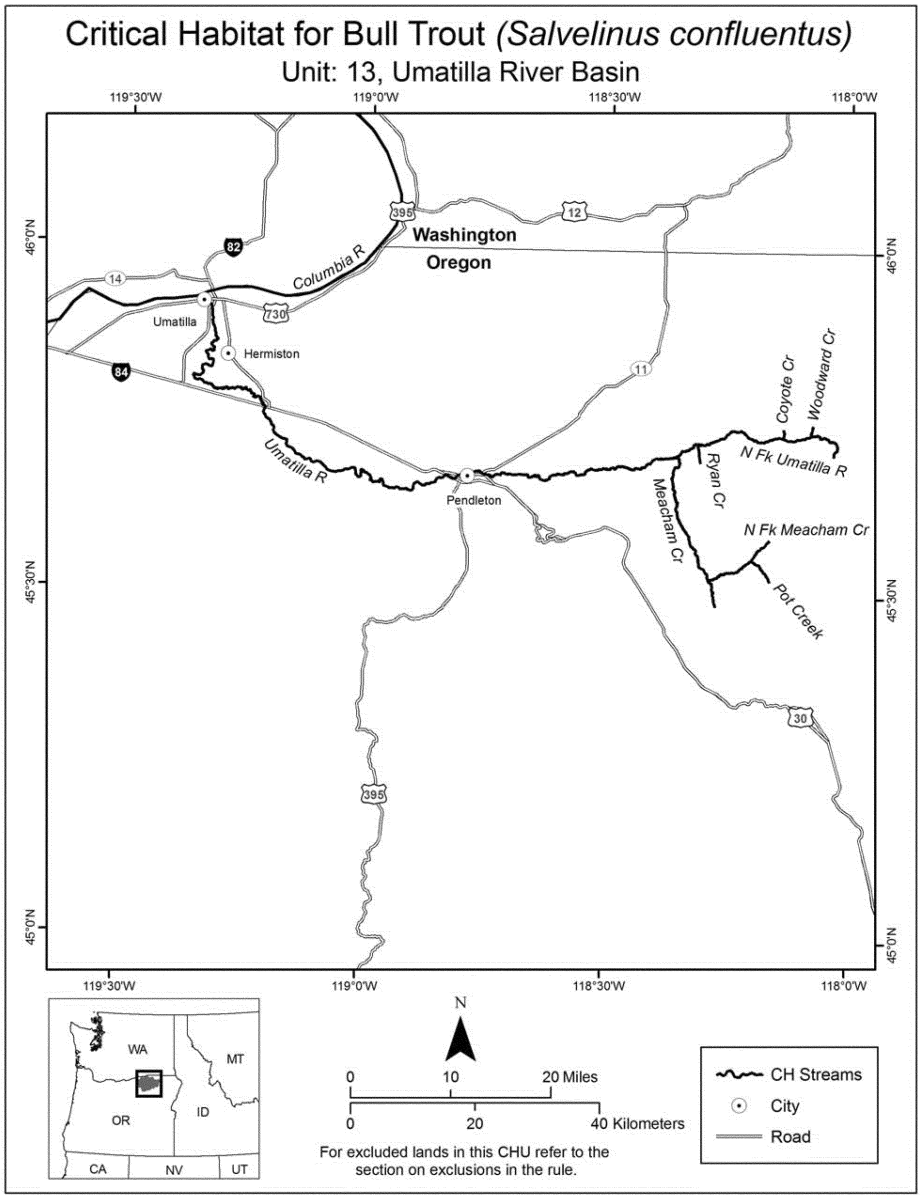
(A) Lands held in trust by the United States for their benefit;

(B) Lands held in trust by the United States for any Indian Tribe or individual subject to restrictions by the United States against alienation;

(C) Fee lands, either within or outside the reservation boundaries, owned by the tribal government; and

(D) Fee lands within the reservation boundaries owned by individual Indians.

(iv) Map of Unit 13, Umatilla River Basin follows:



(21) Unit 14: Walla Walla River Basin

(i) This unit consists of 383.7 km (238.4 mi) of streams. The unit is located in southwestern Washington and northeastern Oregon.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Blue Creek	46.061	−118.155	46.063	−118.108
Bull Creek	46.027	−117.939	46.028	−117.948
Burnt Fork	46.087	−117.942	46.105	−117.986
Burnt Fork Creek	46.040	−117.946	46.032	−117.953
Corral Creek	46.093	−117.847	46.090	−117.844
Couse Creek	45.910	−118.371	45.848	−118.327
Deadman Creek	46.032	−117.956	46.049	−117.951
Green Fly Canyon	46.142	−117.876	46.142	−117.872
Green Fork Creek	46.033	−117.940	46.029	−117.949
Griffin Fork	46.117	−117.965	46.121	−117.975
Henry Canyon	45.988	−118.091	45.931	−118.078
Husky Spring Creek	45.889	−117.952	45.884	−117.978
Lewis Creek	46.156	−117.772	46.191	−117.825
Low Creek	45.973	−118.010	45.993	−118.036
Mill Creek	46.021	−117.945	46.039	−118.479
North Fork Mill Creek	46.035	−117.994	46.021	−117.997
North Fork Touchet River	46.093	−117.865	46.301	−117.960
North Fork Walla Walla River	45.889	−118.087	45.898	−118.308
Paradise Creek	46.000	−117.991	46.004	−118.018
Reser Creek	45.887	−118.001	45.876	−117.986
Skiphorton Creek	45.874	−118.027	45.852	−118.025
South Fork Touchet River	46.105	−117.986	46.301	−117.960
South Fork Walla Walla River	45.938	−117.969	45.898	−118.308
Spangler Creek	46.099	−117.803	46.149	−117.807
Touchet River	46.301	−117.960	46.034	−118.683
Walla Walla River	45.898	−118.308	46.062	−118.940
Wolf Fork Touchet River	46.075	−117.904	46.274	−117.896
Yellowhawk Creek	46.076	−118.273	46.017	−118.401

(iii) Waterbodies associated with the following tribal lands or habitat conservation plans (HCPs) totaling 69.0 km (42.0 mi) of streams have been excluded from critical habitat designation under section 4(b)(2) of the Act in this unit:

(A) Waterbodies within the geographic area covered by the Washington State Forest Practices Habitat Conservation Plan (HCP) , including portions of Touchet River and Walla Walla River CHSUs; and

(B) Waterbodies within the areas under management by the Confederated Tribes of the Umatilla, including portions of the Touchet River CHSU, within reservation boundaries, and waterbodies that are adjacent to:

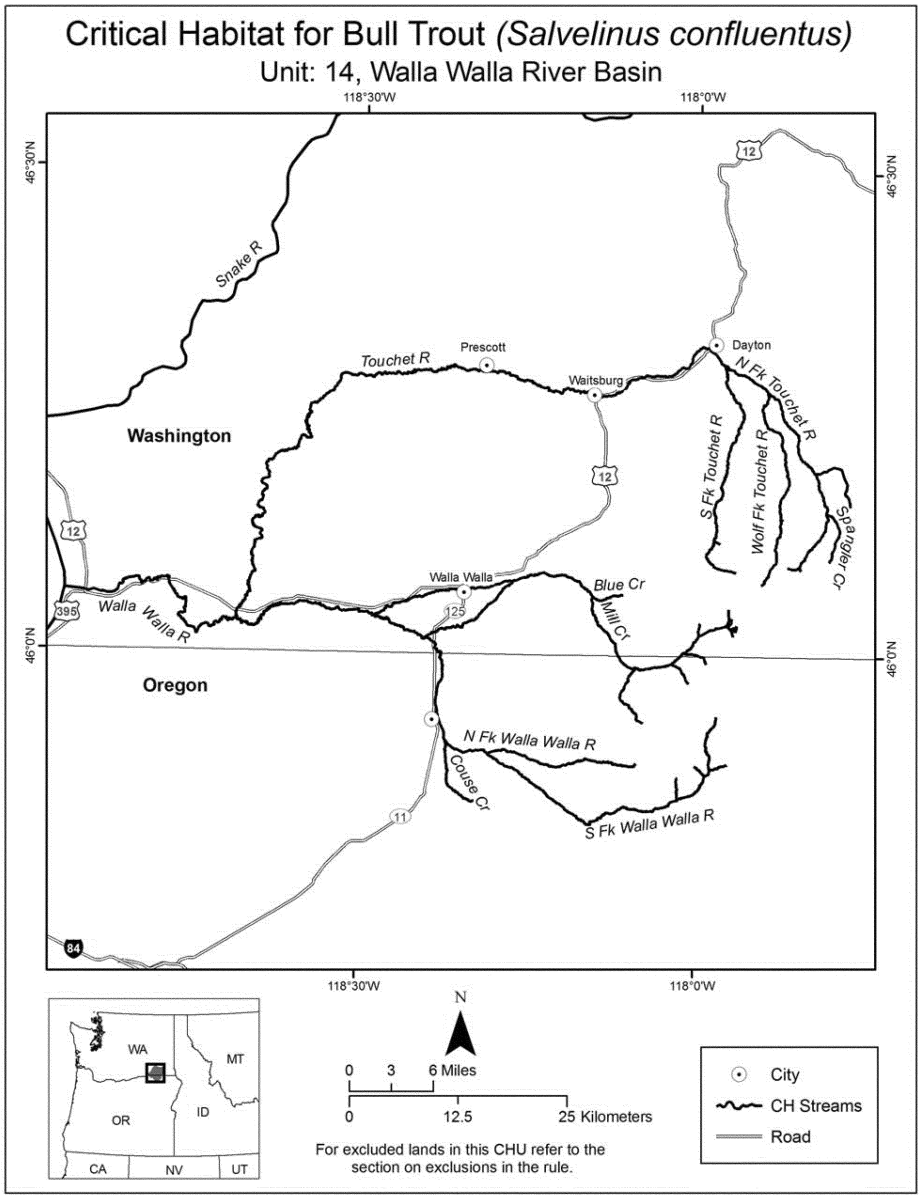
(*1*) Lands held in trust by the United States for their benefit;

(*2*) Lands held in trust by the United States for any Indian Tribe or individual subject to restrictions by the United States against alienation;

(*3*) Fee lands, either within or outside the reservation boundaries, owned by the tribal government; and

(*4*) Fee lands within the reservation boundaries owned by individual Indians.

(iv) Map of Unit 14, Walla Walla River Basin follows:



(22) Unit 15: Lower Snake River Basins

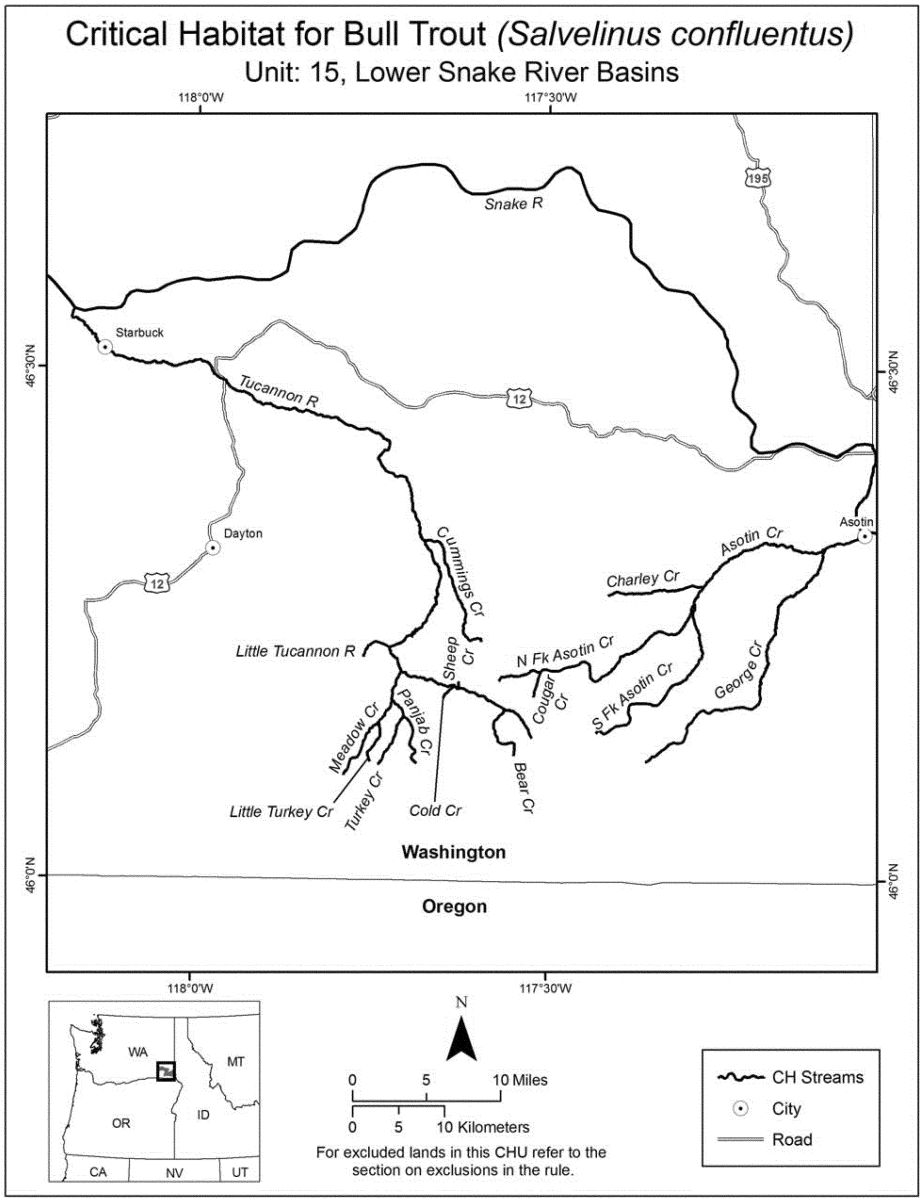
(i) This unit consists of 270.8 km (168.3 mi) of streams. The unit is located in southeastern Washington.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Asotin Creek	46.345	−117.054	46.272	−117.292
Bear Creek	46.168	−117.560	46.122	−117.546
Charley Creek	46.289	−117.279	46.279	−117.414
Cold Creek	46.191	−117.631	46.178	−117.647
Cougar Creek	46.205	−117.509	46.180	−117.519
Cummings Creek	46.333	−117.675	46.234	−117.594
George Creek	46.326	−117.106	46.117	−117.361
Hixon Creek	46.246	−117.684	46.239	−117.690
Little Tucannon River	46.228	−117.722	46.218	−117.759
Little Turkey Creek	46.155	−117.737	46.116	−117.750
Meadow Creek	46.176	−117.719	46.102	−117.786
North Fork Asotin Creek	46.272	−117.292	46.196	−117.569
Panjab Creek	46.205	−117.706	46.115	−117.683
Sheep Creek	46.188	−117.625	46.195	−117.624
South Fork Asotin Creek	46.272	−117.292	46.145	−117.431
Tucannon River	46.557	−118.175	46.139	−117.521
Turkey Creek	46.161	−117.703	46.113	−117.739

(iii) Waterbodies associated with the following habitat conservation plans (HCPs) totaling 13.4 km (8.3 mi) of streams have been excluded from critical habitat designation under section 4(b)(2) of the Act in this unit. These are waterbodies within the geographic area covered by the Washington State Forest Practices Habitat Conservation Plan (HCP), including portions of Asotin Creek and Tucannon River CHSUs.

(iv) Map of Unit 15, Lower Snake River Basins follows:



(23) Unit 16: Grande Ronde River Basin

(i) This unit consists of 1,057.9 km (657.4 mi) of streams and 605.2 ha (1,495.5 ac) of lakes and reservoirs. The unit is located in northeastern Oregon and southwestern Washington.

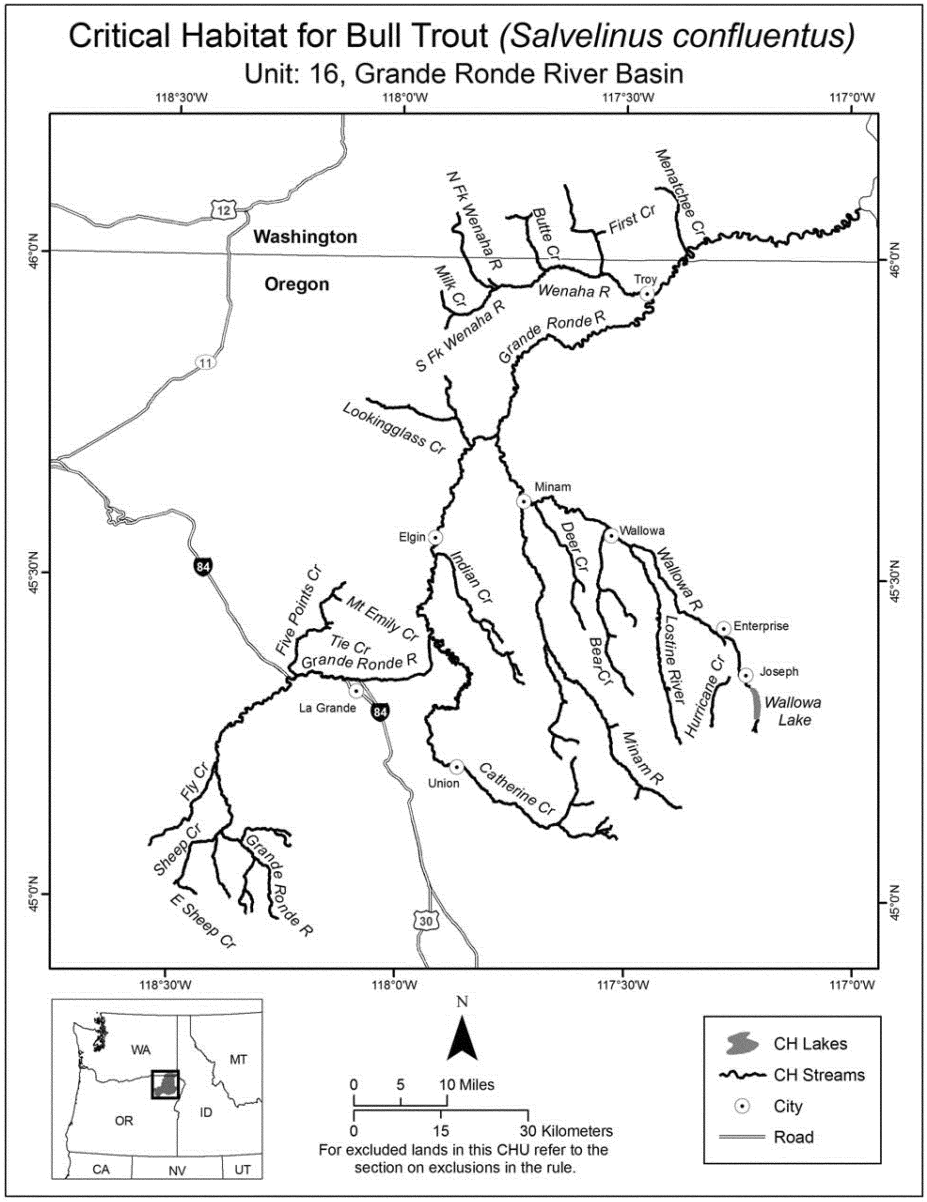
(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Bear Creek	45.322	−117.481	45.584	−117.541
Beaver Creek	45.968	−117.808	45.955	−117.786
Boulder Creek	45.310	−117.625	45.312	−117.633
Butte Creek	46.064	−117.723	45.982	−117.679
Camp Creek	45.387	−117.745	45.387	−117.758
Catherine Creek	45.120	−117.647	45.408	−117.931
Chicken Creek	45.024	−118.386	45.095	−118.395
Clear Creek	44.976	−118.327	45.063	−118.310
Collins Creek	45.097	−117.514	45.105	−117.543
Crooked Creek	46.046	−117.625	45.977	−117.552
Deer Creek	45.423	−117.588	45.620	−117.700
Dobbin Creek	45.221	−117.640	45.259	−117.654
East Fork Butte Creek	46.064	−117.723	46.074	−117.710
East Fork Elk Creek	45.161	−117.469	45.166	−117.470
East Fork Indian Creek	45.353	−117.725	45.368	−117.749
East Fork Wallowa River	45.265	−117.210	45.274	−117.212
East Sheep Creek	45.003	−118.435	45.026	−118.475
Elk Creek	45.160	−117.476	45.178	−117.460
Fiddlers Hell Creek	45.431	−118.144	45.428	−118.160
First Creek	46.043	−117.547	46.035	−117.571
Five Points Creek	45.481	−118.144	45.346	−118.222
Fly Creek	45.121	−118.466	45.210	−118.395
Goat Creek	45.413	−117.518	45.418	−117.538
Grande Ronde River	44.967	−118.255	46.080	−116.979
Hurricane Creek	45.274	−117.312	45.420	−117.302
Indian Creek	45.337	−117.722	45.534	−117.920
Indiana Creek	45.000	−118.362	45.024	−118.386
Lake Creek	45.331	−117.398	45.332	−117.410
Limber Jim Creek	45.085	−118.230	45.089	−118.344
Little Bear Creek	45.428	−117.480	45.485	−117.555
Little Fly Creek	45.109	−118.476	45.121	−118.466
Little Lookingglass Creek	45.817	−117.902	45.750	−117.875
Little Minam River	45.246	−117.600	45.401	−117.672
Lookingglass Creek	45.779	−118.079	45.707	−117.842
Lookout Creek	45.078	−118.541	45.109	−118.476
Lostine River	45.245	−117.375	45.552	−117.490
Marion Creek	45.097	−118.229	45.105	−118.267
Menatchee Creek	46.110	−117.439	46.007	−117.365
Middle Fork Catherine Creek	45.154	−117.565	45.152	−117.617
Middle Fork Five Points Creek	45.492	−118.116	45.481	−118.144
Milk Creek	45.948	−117.913	45.913	−117.883
Minam River	45.147	−117.372	45.621	−117.721
Mt Emily Creek	45.465	−118.125	45.473	−118.147
North Fork Catherine Creek	45.225	−117.605	45.120	−117.647
North Fork Indian Creek	45.402	−117.769	45.433	−117.820
North Fork Wenaha River	46.066	−117.878	46.066	−117.878
North Minam River	45.276	−117.512	45.273	−117.537
Pole Creek	45.131	−117.531	45.107	−117.560
Sage Creek	45.481	−117.594	45.500	−117.607
Sand Pass Creek	45.120	−117.526	45.108	−117.552
Sheep Creek	45.019	−118.485	45.105	−118.382
Silver Creek	45.394	−117.422	45.396	−117.428
South Fork Catherine Creek	45.110	−117.533	45.120	−117.647
South Fork Wenaha River	45.890	−117.906	45.951	−117.795
Summer Creek	45.771	−117.983	45.766	−117.983
Third Creek	46.089	−117.628	46.046	−117.625
Tie Creek	45.421	−118.149	45.423	−118.159
Trout Creek	46.089	−117.628	46.116	−117.641
Unnamed - Off Clear Creek	44.977	−118.314	45.013	−118.330
Wallowa Lake	45.310	−117.210		
Wallowa River	45.274	−117.212	45.726	−117.785
Wenaha River	45.951	−117.795	45.945	−117.451
West Fork Butte Creek	46.063	−117.772	46.063	−117.723
West Fork Wallowa River	45.267	−117.216	45.274	−117.212

(iii) Waterbodies associated with the following habitat conservation plans (HCPs) totaling 1.0 km (0.6 mi) of streams have been excluded from critical habitat designation

under section 4(b)(2) of the Act in this unit. These are waterbodies within the geographic area covered by the Washington State Forest Practices Habitat Conservation Plan (HCP), including portions of the Grand Ronde River CHSU.

(iv) Map of Unit 16, Grand Ronde River Basin follows:



(24) Unit 17: Imnaha River Basin

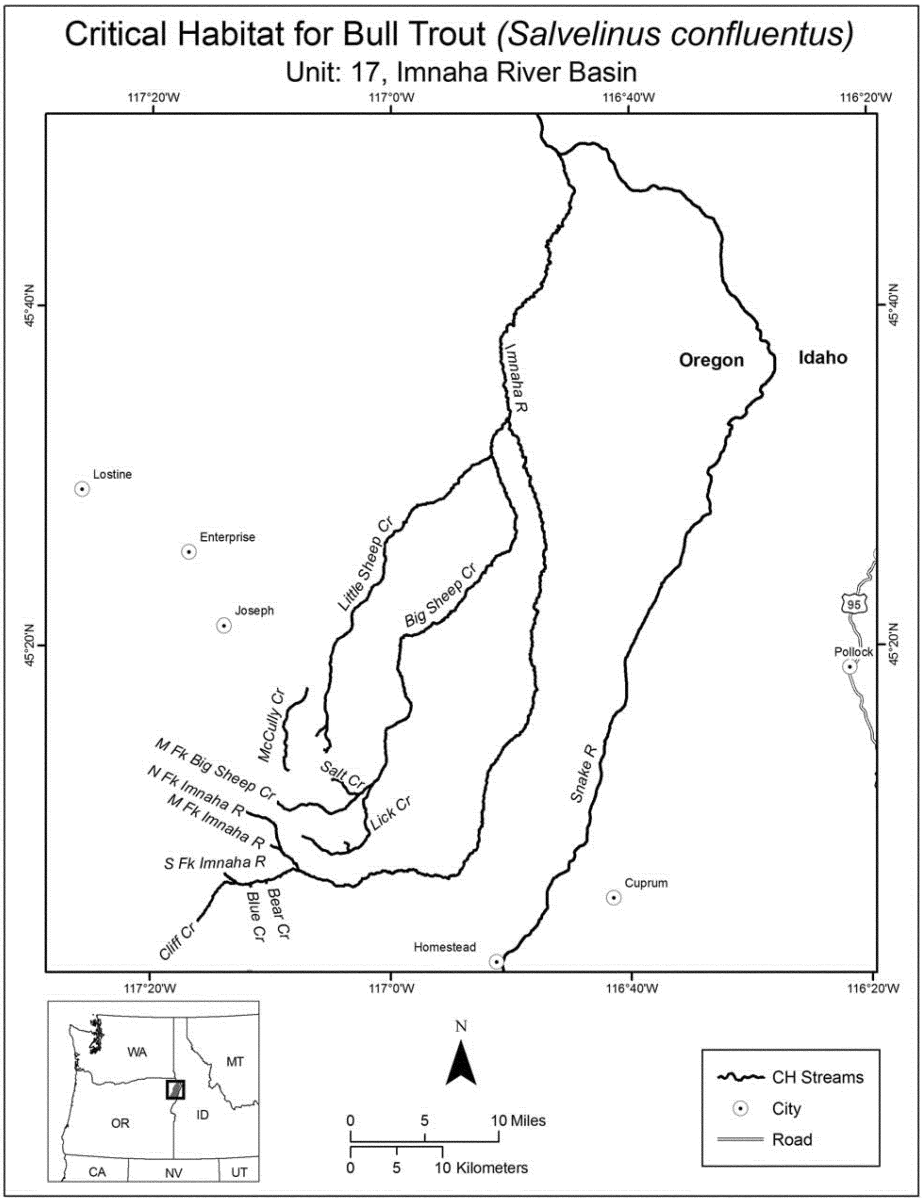
(i) This unit consists of 285.7 km (177.5 mi) of streams. The unit is located in northeastern Oregon.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Bear Creek	45.100	−117.173	45.104	−117.172
Big Sheep Creek	45.178	−117.120	45.557	−116.835
Blue Creek	45.097	−117.194	45.101	−117.195
Cabin Creek	45.229	−117.090	45.232	−117.089
Cliff Creek	45.063	−117.269	45.102	−117.215
Imnaha River	45.113	−117.126	45.817	−116.765
Lick Creek	45.147	−117.124	45.198	−117.025
Little Sheep Creek	45.232	−117.094	45.520	−116.860
McCully Creek	45.211	−117.141	45.293	−117.116
Middle Fork Big Sheep Creek	45.181	−117.158	45.178	−117.120
Middle Fork Imnaha River	45.139	−117.167	45.133	−117.152
North Fork Imnaha River	45.171	−117.201	45.113	−117.126
Redmont Creek	45.245	−117.104	45.256	−117.089
Salt Creek	45.202	−117.083	45.188	−117.044
Soldier Creek	45.107	−117.155	45.109	−117.152
South Fork Imnaha River	45.111	−117.231	45.113	−117.126
Unnamed - Off Lick Creek	45.141	−117.065	45.133	−117.057

(iii) No waterbodies are excluded from critical habitat designation in this unit.

(iv) Map of Unit 17, Imnaha River Basin follows:



(25) Unit 18: Sheep / Granite Creeks

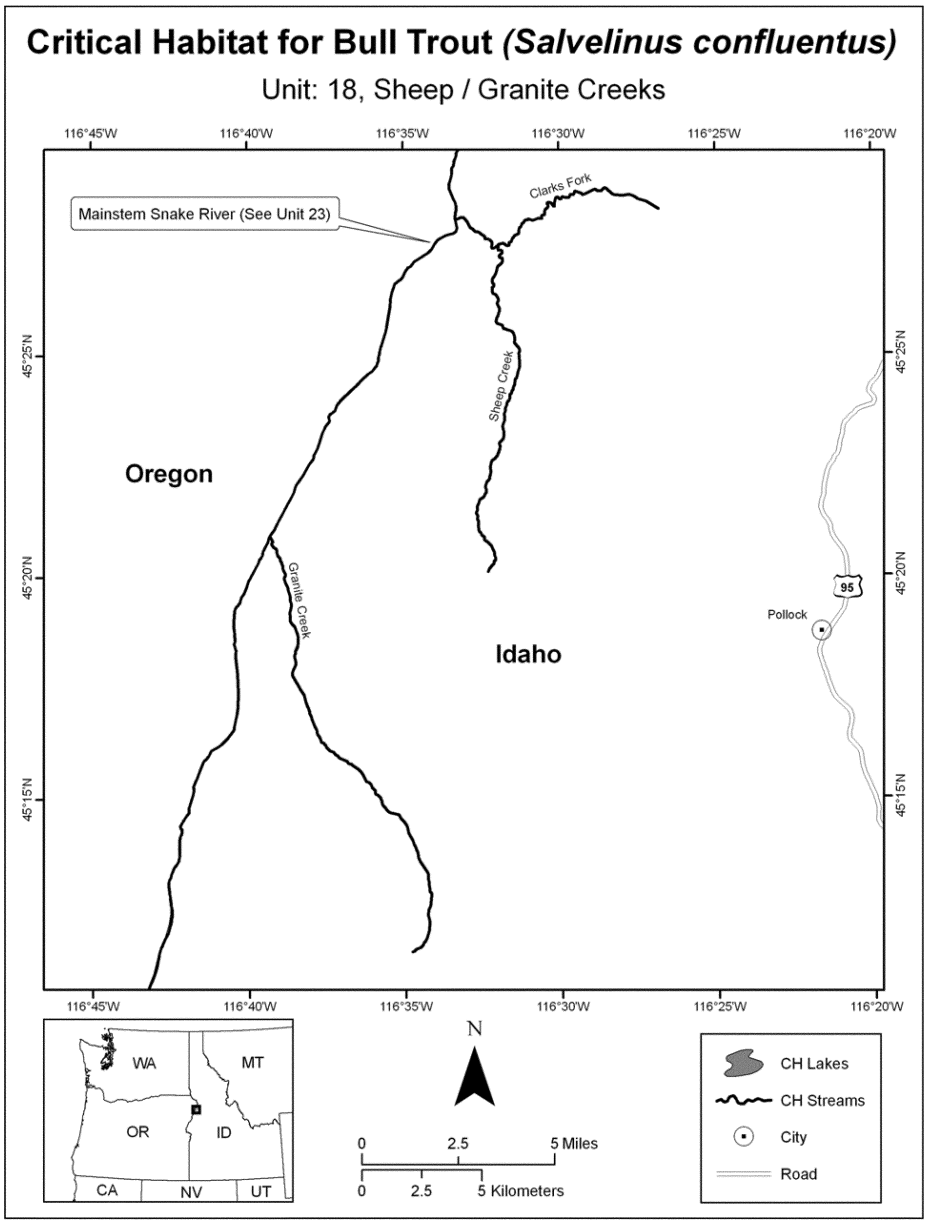
(i) This unit consists of 47.9 km (29.7 mi) of streams. The unit is located in west-central Idaho.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Clarks Fork	45.458	−116.533	45.471	−116.447
Granite Creek	45.192	−116.580	45.349	−116.655
Sheep Creek	45.405	−116.524	45.468	−116.555

(iii) No waterbodies are excluded from critical habitat designation in this unit.

(iv) Map of Unit 18, Sheep/Granite Creeks follows:



(26) Unit 19: Hell's Canyon Complex

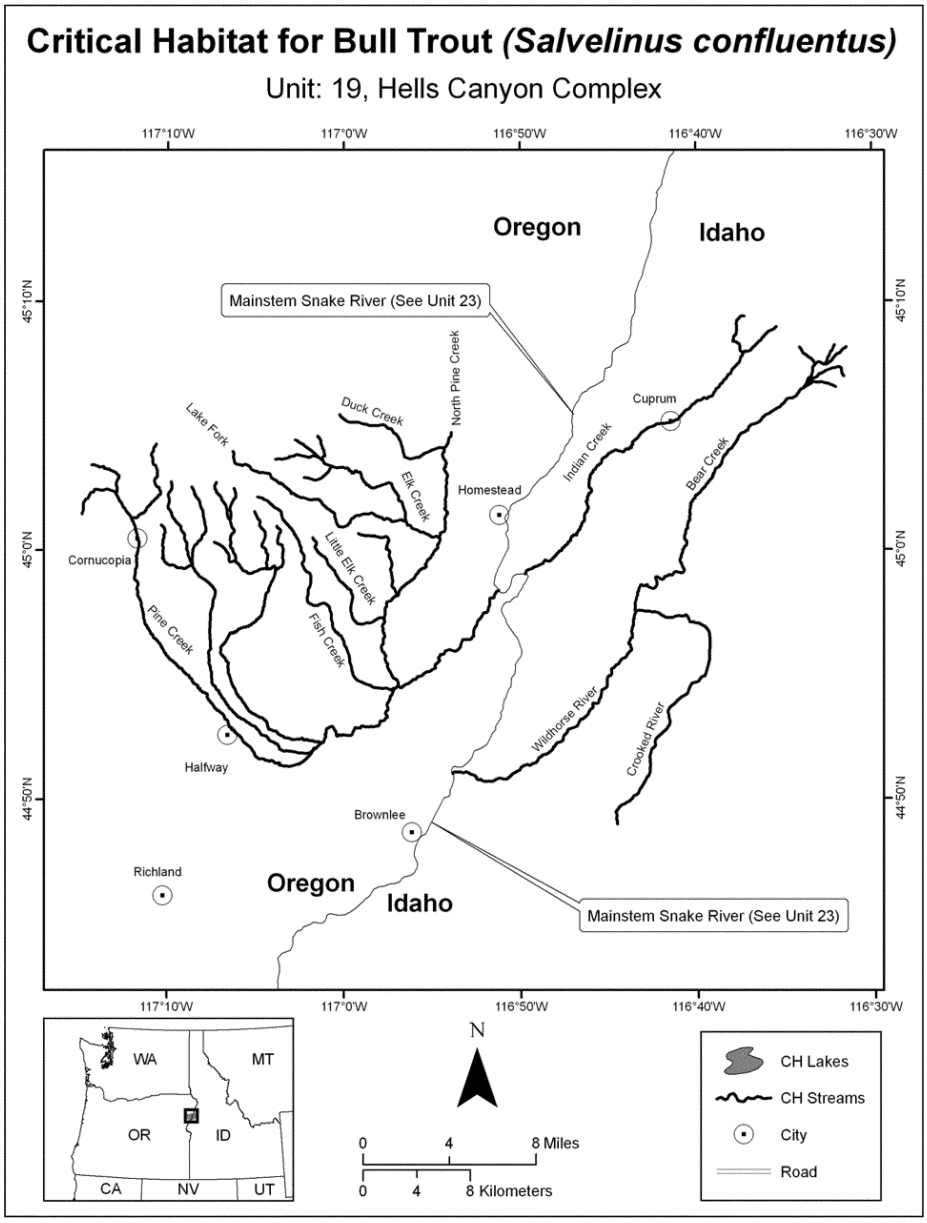
(i) This unit consists of 377.5 km (234.6 mi) of streams. The unit is located in northeastern Oregon and west-central Idaho.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Aspen Creek	45.057	−117.012	45.049	−117.038
Bear Creek	44.959	−116.725	45.136	−116.525
Big Elk Creek	45.063	−117.024	45.061	−117.065
Cabin Creek	45.061	−117.021	45.077	−117.025
Camp Creek	45.132	−116.623	45.157	−116.621
Clear Creek	44.866	−117.030	45.043	−117.144
Crooked River	44.959	−116.725	44.817	−116.743
Duck Creek	45.069	−116.906	45.091	−117.004
East Fork Of East Pine Creek	45.021	−117.107	45.042	−117.104
East Fork Pine Creek	45.022	−117.201	45.071	−117.177
East Pine Creek	44.872	−117.021	45.046	−117.120
Elk Creek	45.009	−116.910	45.074	−117.046
Fall Creek	44.970	−116.949	45.012	−116.986
Fish Creek	44.908	−116.953	45.036	−117.082
Indian Creek	44.984	−116.829	45.150	−116.591
Lake Fork	45.020	−116.942	45.067	−117.105
Little Elk Creek	44.954	−116.962	45.009	−117.029
Meadow Creek	44.990	−117.143	45.017	−117.172
Mickey Creek	45.109	−116.565	45.109	−116.535
Middle Fork Pine Creek	45.039	−117.216	45.057	−117.238
North Pine Creek	44.910	−116.949	45.079	−116.898
Okanogan Creek	44.987	−117.065	45.017	−117.063
Pine Creek	44.973	−116.854	45.039	−117.216
Trail Creek	44.991	−117.143	45.046	−117.163
Trinity Creek	44.988	−117.072	45.026	−117.084
Unnamed - Off East Pine Creek	44.993	−117.102	45.006	−117.122
Unnamed - trib To Bear Creek	45.124	−116.545	45.137	−116.536
Unnamed - Trib To Bear Creek	45.124	−116.554	45.136	−116.569
Wesley Creek	45.112	−116.562	45.116	−116.527
West Fork Pine Creek	45.039	−117.216	45.025	−117.247
Wildhorse River	44.851	−116.897	44.959	−116.725

(iii) No waterbodies are excluded from critical habitat designation in this unit.

(iv) Map of Unit 19, Hell's Canyon Complex follows:



(27) Unit 20: Powder River Basin

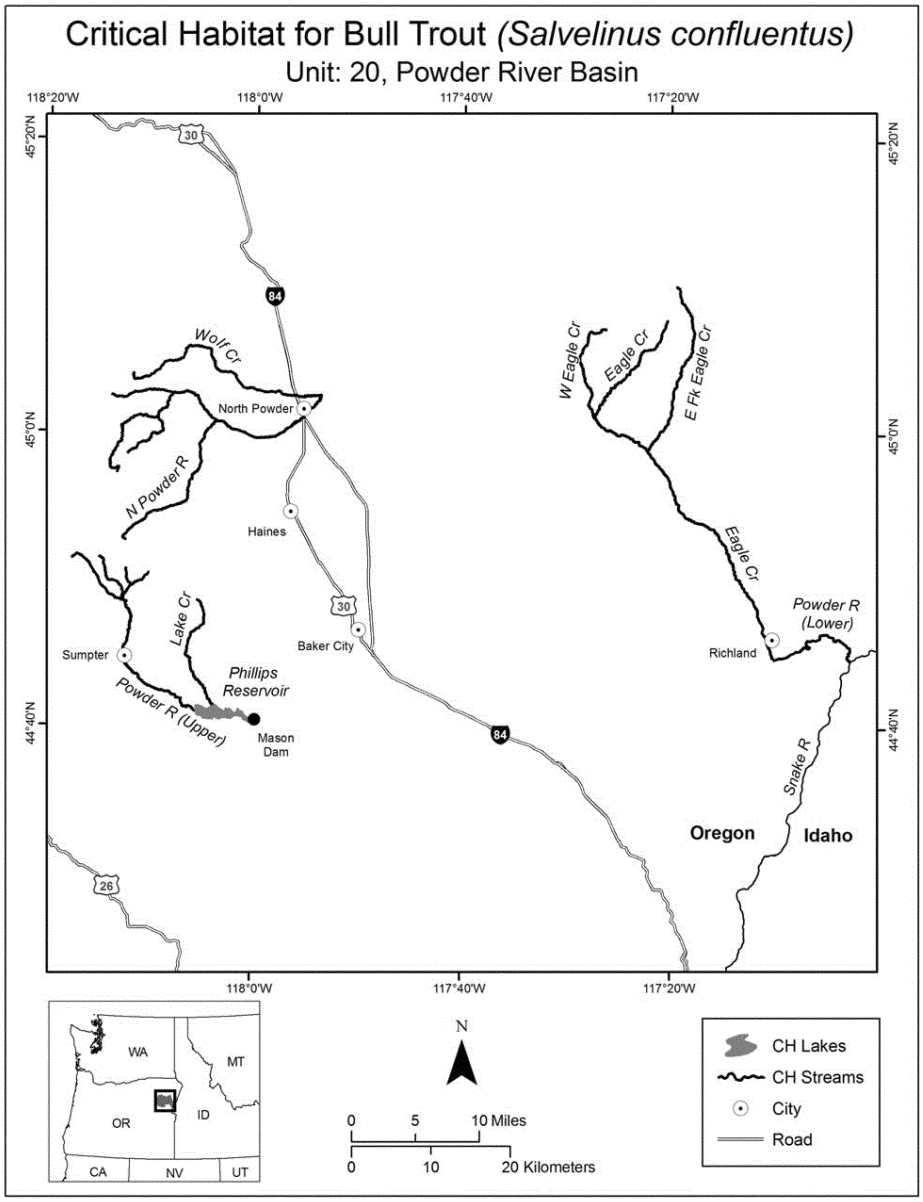
(i) This unit consists of 296.5 km (184.2 mi) of streams and 897.0 ha (2,216.5 ac) of lakes and reservoirs. The unit is located in northeastern Oregon.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Anthony Creek	45.013	−118.060	44.953	−118.221
Cracker Creek	44.741	−118.206	44.846	−118.205
Deer Creek	44.684	−118.060	44.749	−118.108
Eagle Creek	44.746	−117.170	45.132	−117.339
East Fork Eagle Creek	44.983	−117.371	45.170	−117.325
Fruit Creek	44.809	−118.212	44.858	−118.248
Indian Creek	45.019	−118.155	44.975	−118.205
Lake Creek	44.749	−118.108	44.810	−118.092
Little Cracker Creek	44.826	−118.197	44.840	−118.167
North Fork Anthony Creek	45.045	−118.131	45.042	−118.232
North Powder River	44.878	−118.204	45.038	−117.896
Phillips Reservoir	44.681	−118.052		
Powder River (Lower)	44.743	−117.047	44.746	−117.170
Powder River (Middle)	45.044	−117.894	45.038	−117.896
Powder River (Upper)	44.684	−118.060	44.741	−118.206
Silver Creek	44.809	−118.208	44.857	−118.292
West Eagle Creek	45.019	−117.454	45.121	−117.437
Wolf Creek	45.044	−117.894	45.067	−118.194

(iii) No waterbodies are excluded from critical habitat designation in this unit.

(iv) Map of Unit 20, Powder River Basin follows:



(28) Unit 21: Clearwater River

(i) This unit consists of 2,702.1 km (1,679.0 mi) of streams and 6,721.9 ha (16,610.1 ac) of lakes and reservoirs. The unit is located in northcentral Idaho.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Adair Creek	47.097	−115.853	47.083	−115.806
American River	45.808	−115.475	45.945	−115.450
Baldy Creek	45.908	−115.630	45.961	−115.721
Baston Creek	45.760	−115.235	45.731	−115.223
Bear Creek	46.019	−114.845	46.108	−114.509
Bear Creek	46.711	−114.963	46.750	−114.922
Bear Creek	45.863	−115.618	45.878	−115.595
Beaver Creek	46.506	−114.627	46.553	−114.504
Beaver Creek	46.842	−115.621	46.758	−115.678
Beaver Creek	45.896	−115.631	45.943	−115.569
Big Flat Creek	46.402	−114.494	46.313	−114.441
Bill Creek	46.631	−115.271	46.637	−115.187
Bostonian Creek	46.962	−115.114	46.996	−115.137
Boulder Creek	46.615	−114.671	46.678	−114.749
Boundary Creek	46.972	−115.108	46.981	−115.077
Breakfast Creek	46.883	−115.940	46.875	−115.995
Bridge Creek	45.779	−115.210	45.814	−115.164
Brushy Fork	46.578	−114.612	46.616	−114.455
Brushy Fork Creek	46.002	−114.699	45.988	−114.583
Buck Creek	47.021	−115.555	47.049	−115.543
Burnt Knob Creek	45.715	−114.899	45.697	−114.946
Burnt Strip Creek	45.826	−114.618	45.817	−114.626
Butte Creek (North Fork Clearwater)	47.045	−115.720	47.031	−115.751
Canyon Creek	45.888	−114.614	45.882	−114.409
Canyon Creek	47.000	−115.651	47.017	−115.499
Cayuse Creek	45.705	−114.615	45.740	−114.608
Cayuse Creek	46.712	−115.021	46.612	−114.793
Cedar Creek	46.249	−114.709	46.330	−114.706
Chamberlain Creek	46.929	−115.143	46.924	−115.171
Clearwater River	46.428	−117.040	46.146	−115.981
Collins Creek	46.862	−115.434	46.982	−115.453
Colt Creek	46.433	−114.540	46.419	−114.636
Colt Killed Creek	46.508	−114.682	46.428	−114.415
Cooperation Creek	46.452	−114.870	46.440	−114.817
Corral Creek	46.483	−115.241	46.534	−115.207
Crooked Fork	46.508	−114.682	46.704	−114.709
Crooked River	45.824	−115.530	45.695	−115.549
Cub Creek	46.034	−114.757	46.031	−114.618
Dawson Creek	45.730	−115.391	45.743	−115.426
Deep Creek	45.707	−114.719	45.708	−114.516
Ditch Creek	45.747	−115.298	45.794	−115.293
Doe Creek	46.499	−114.863	46.554	−114.921
Dworshak Reservoir	46.660	−116.120		
Eagle Creek	45.908	−114.854	45.794	−114.891
East Fork American River	45.864	−115.425	45.919	−115.363
East Fork Crooked River	45.695	−115.549	45.656	−115.564
East Fork Fishing Creek	46.556	−114.855	46.561	−114.837
East Fork Legendary Bear Creek	46.562	−114.736	46.535	−114.766
East Fork Meadow Creek	45.880	−115.104	45.829	−115.028
East Fork Moose Creek	46.165	−114.898	46.270	−114.680
East Fork O'Hara Creek	45.998	−115.524	45.939	−115.541
Elk Creek	45.818	−115.459	45.841	−115.435
Fish Creek	46.333	−115.346	46.373	−115.597
Fish Lake	46.817	−114.912		
Fish Lake (Lochsa)	46.333	−115.052		
Fish Lake Creek	46.331	−115.057	46.407	−115.001
Fishing Creek	46.492	−114.858	46.571	−114.860
Flat Creek	45.722	−114.858	45.651	−114.848
Flint Creek	45.891	−115.428	45.913	−115.424
Floodwood Creek	46.888	−115.954	46.974	−115.913
Foehl Creek	46.970	−115.676	46.990	−115.743
Fourth of July Creek	46.665	−115.377	46.564	−115.260
Fox Creek	46.605	−114.755	46.630	−114.696
French Creek	45.597	−114.592	45.603	−114.572
Fro Creek	46.479	−115.222	46.467	−115.209
Frost Creek	46.918	−115.349	46.926	−115.380
Gabe Creek	45.697	−114.671	45.710	−114.666
Gedney Creek	46.056	−115.314	46.135	−115.249
Glover Creek	46.916	−116.013	46.980	−116.095
Gold Pan Creek	45.667	−114.722	45.665	−114.737
Goose Creek	46.852	−115.013	46.906	−114.953

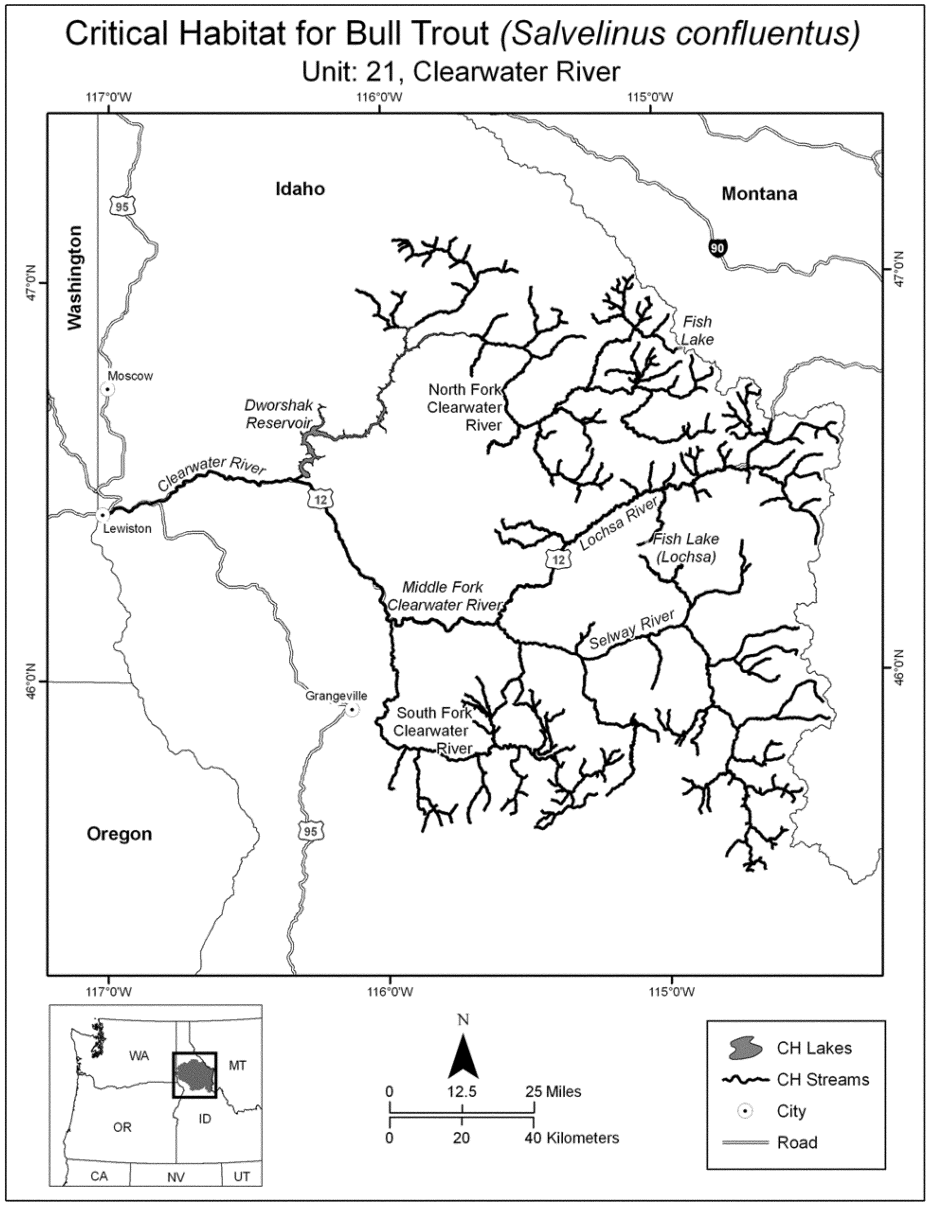
Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Gospel Creek	45.703	−115.891	45.677	−115.891
Graves Creek	46.986	−115.101	47.006	−115.079
Hagen Creek	45.649	−115.818	45.630	−115.809
Haskell Creek	46.596	−114.604	46.632	−114.583
Hells Half Acre Creek	45.692	−114.718	45.689	−114.705
Hopeful Creek	46.671	−114.681	46.724	−114.654
Hungery Creek	46.356	−115.398	46.400	−115.569
Indian Creek	45.792	−114.765	45.792	−114.575
Indian Grave Creek	46.452	−115.077	46.490	−115.143
Isabella Creek	46.849	−115.631	46.913	−115.539
Jack Creek	45.778	−114.692	45.788	−114.683
Johnagan Creek	46.510	−115.367	46.543	−115.354
Johnny Creek	46.613	−115.435	46.614	−115.372
Johns Creek	45.824	−115.890	45.683	−115.755
Jungle Creek	47.076	−115.804	47.110	−115.796
Kelly Creek	46.716	−115.258	46.730	−114.861
Kid Lake Creek	46.747	−114.806	46.768	−114.805
Kim Creek	45.679	−114.720	45.682	−114.734
Kirks Fork American River	45.822	−115.411	45.829	−115.390
Lake Creek	46.869	−115.079	46.819	−114.905
Lazy Creek	45.679	−114.546	45.668	−114.555
Legendary Bear Creek	46.511	−114.762	46.535	−114.766
Lick Creek	45.923	−115.469	45.969	−115.487
Little Clearwater River	45.754	−114.776	45.738	−114.946
Little Elk Creek	45.841	−115.435	45.868	−115.449
Little Lost Lake Creek	47.089	−115.893	47.073	−115.936
Little Moose Creek	46.733	−115.078	46.783	−114.906
Little Moose Creek	45.716	−115.368	45.709	−115.400
Little North Fork Clearwater River	46.887	−115.878	47.101	−115.963
Little Weitas Creek	46.506	−115.392	46.479	−115.389
Liz Creek	46.482	−115.290	46.436	−115.306
Lochsa River	46.140	−115.600	46.508	−114.682
Long Creek	46.872	−115.076	46.950	−115.025
Lost Lake Creek	47.095	−115.901	47.087	−115.937
Lund Creek	47.068	−115.884	47.050	−115.913
Lynx Creek	45.849	−114.938	45.817	−114.952
Magruder Creek	45.745	−114.761	45.717	−114.780
Marten Creek	46.099	−115.053	45.963	−115.046
Maud Creek	46.497	−114.515	46.474	−114.411
Meadow Creek	46.910	−115.233	46.905	−115.117
Meadow Creek	46.046	−115.296	45.698	−115.218
Melton Creek	45.725	−115.996	45.724	−115.979
Middle Fork Clearwater River	46.146	−115.981	46.140	−115.600
Middle Fork Kelly Creek	46.730	−114.861	46.747	−114.806
Middle Fork Red River	45.659	−115.413	45.631	−115.472
Mill Creek	45.830	−115.932	45.725	−115.996
Mink Creek	46.601	−114.895	46.628	−114.894
Mist Creek	45.567	−114.629	45.555	−114.626
Montana Creek	47.045	−115.701	47.089	−115.676
Moores Creek	45.676	−115.838	45.614	−115.880
Moores Lake Creek	45.677	−115.891	45.659	−115.870
Moose Butte Creek	45.710	−115.353	45.692	−115.417
Moose Creek	46.122	−114.935	46.165	−114.898
Moose Creek	46.721	−115.087	46.752	−115.185
Mule Creek	45.925	−115.635	45.932	−115.631
Newsome Creek	45.828	−115.616	46.004	−115.679
Niagra Gulch	46.967	−115.137	46.973	−115.159
North Fork Clearwater River	46.503	−116.332	46.999	−115.113
North Fork Kelly Creek	46.730	−114.861	46.801	−114.874
North Fork Moose Creek	46.165	−114.898	46.274	−114.924
North Fork Spruce Creek	46.606	−114.393	46.616	−114.352
O'Hara Creek	46.086	−115.518	45.998	−115.524
Open Creek	45.676	−115.838	45.683	−115.823
Orogrande Creek	46.631	−115.507	46.564	−115.623
Osier Creek	46.744	−115.074	46.837	−115.065
Otterson Creek	45.776	−115.220	45.820	−115.234
Parachute Creek	46.528	−114.762	46.530	−114.757
Paradise Creek	46.022	−114.729	46.039	−114.527
Pete Creek	45.703	−114.580	45.715	−114.564
Pilot Creek	45.907	−115.630	45.944	−115.732
Placer Creek	46.938	−115.168	46.959	−115.179

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Pollock Creek	46.780	−115.023	46.780	−114.990
Postoffice Creek	46.466	−114.986	46.529	−114.950
Quartz Creek	46.806	−115.456	46.846	−115.259
Rawhide Creek	46.898	−115.047	46.938	−115.056
Red Horse Creek	45.794	−115.401	45.827	−115.327
Red River	45.808	−115.475	45.803	−115.155
Relief Creek	45.748	−115.520	45.754	−115.498
Rhoda Creek	46.234	−114.961	46.239	−115.009
Roaring Creek	46.886	−115.356	46.918	−115.349
Rock Creek	46.598	−114.609	46.612	−114.620
Rocky Run	47.069	−115.819	47.035	−115.848
Ruby Creek	46.733	−115.079	46.745	−115.105
Running Creek	45.919	−114.832	45.916	−115.033
Rutledge Creek	47.073	−115.755	47.108	−115.723
Saddle Gulch	45.770	−114.654	45.766	−114.641
Salamander Creek	45.711	−114.866	45.648	−114.879
Sawmill Creek	45.908	−115.635	45.904	−115.647
Schofield Creek	45.777	−114.646	45.819	−114.586
Schwar Creek	45.882	−115.117	45.905	−115.109
Selway River	46.140	−115.600	45.500	−114.698
Shoot Creek	46.606	−114.415	46.580	−114.426
Short Creek	46.886	−115.058	46.898	−115.014
Shot Creek	46.639	−115.281	46.666	−115.207
Shotgun Creek	46.601	−114.665	46.600	−114.738
Siegel Creek	45.773	−115.388	45.787	−115.368
Silver Creek	46.607	−114.831	46.653	−114.814
Silver Creek	45.716	−115.540	45.703	−115.501
Sixmile Creek	45.764	−115.660	45.763	−115.646
Skull Creek	46.827	−115.486	46.888	−115.321
Slate Creek	46.928	−115.009	46.927	−115.019
Slow Gulch Creek	45.694	−114.561	45.679	−114.546
Soda Creek	45.756	−115.257	45.746	−115.252
South Fork Clearwater River	46.146	−115.981	45.808	−115.475
South Fork Kelly Creek	46.712	−114.863	46.707	−114.818
South Fork Red River	45.711	−115.345	45.623	−115.480
South Fork Running Creek	45.845	−114.945	45.823	−114.966
South Fork Spruce Creek	46.606	−114.393	46.565	−114.353
South Fork Surprise Creek	45.527	−114.680	45.503	−114.655
Spring Creek	46.546	−114.886	46.552	−114.903
Spruce Creek	46.616	−114.455	46.606	−114.393
Stoney Creek	46.884	−115.970	46.915	−116.033
Storm Creek	46.463	−114.549	46.541	−114.403
Storm Creek	45.578	−114.641	45.611	−114.591
Stripe Creek	45.523	−114.704	45.513	−114.736
Sugar Creek	46.771	−115.035	46.820	−115.006
Surprise Creek	45.521	−114.702	45.532	−114.667
Swamp Creek	46.745	−115.068	46.799	−115.002
Swet Creek	45.580	−114.720	45.537	−114.795
Taylor Creek	45.659	−115.783	45.637	−115.774
Tenmile Creek	45.806	−115.684	45.639	−115.713
Three Lakes Creek	45.623	−114.709	45.618	−114.724
Tom Creek	45.862	−114.987	45.912	−114.985
Trapper Creek	45.674	−115.345	45.705	−115.248
Twin Creek	46.582	−114.528	46.570	−114.475
Twin Lakes Creek	45.664	−115.828	45.649	−115.818
Unnamed - Off Hopeful Creek	46.708	−114.625	46.699	−114.669
Unnamed - Off Long Creek	46.947	−115.036	46.939	−115.024
Unnamed - Off West Fork Crooked River	45.695	−115.574	45.690	−115.563
Unnamed 1 - Off Pilot Creek	45.923	−115.688	45.930	−115.677
Unnamed 2 - Off Pilot Creek	45.938	−115.717	45.927	−115.723
Vance Creek	45.703	−114.580	45.683	−114.593
Vanderbilt Gulch	46.916	−115.120	46.940	−115.191
W.Fk. American River	45.913	−115.466	45.935	−115.545
W.Fk. Fishing Creek	46.537	−114.868	46.567	−114.885
W.Fk. Gedney Creek	46.094	−115.294	46.110	−115.295
W.Fk. O'Hara Creek	45.998	−115.524	45.949	−115.570
Walton Creek	46.508	−114.682	46.472	−114.681
Warm Springs Creek	46.473	−114.888	46.430	−114.864
Weasel Creek	46.601	−114.905	46.623	−114.906
Weir Creek	46.457	−115.035	46.534	−115.018
Weitas Creek	46.636	−115.434	46.508	−115.174

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
West Fork Crooked River	45.695	−115.549	45.666	−115.597
West Fork Floodwood Creek	46.957	−115.928	46.973	−115.964
West Fork Legendary Bear Creek	46.535	−114.766	46.580	−114.752
West Fork Newsome Creek	45.865	−115.618	45.892	−115.695
West Fork Red River	45.653	−115.402	45.667	−115.453
White Cap Creek	45.860	−114.745	45.919	−114.431
Wilkerson Creek	45.612	−114.707	45.563	−114.615
Williams Creek	45.731	−115.656	45.667	−115.658
Williams Lake Creek	46.644	−114.717	46.647	−114.768
Windy Creek	46.494	−115.328	46.570	−115.236
Wiseboy Creek	45.642	−115.712	45.637	−115.704
Wounded Doe Creek	46.239	−115.009	46.300	−115.080

(iii) No waterbodies are excluded from critical habitat designation in this unit.

(iv) Map of Unit 21, Clearwater River follows:



(29) Unit 22: Mainstem Upper Columbia River

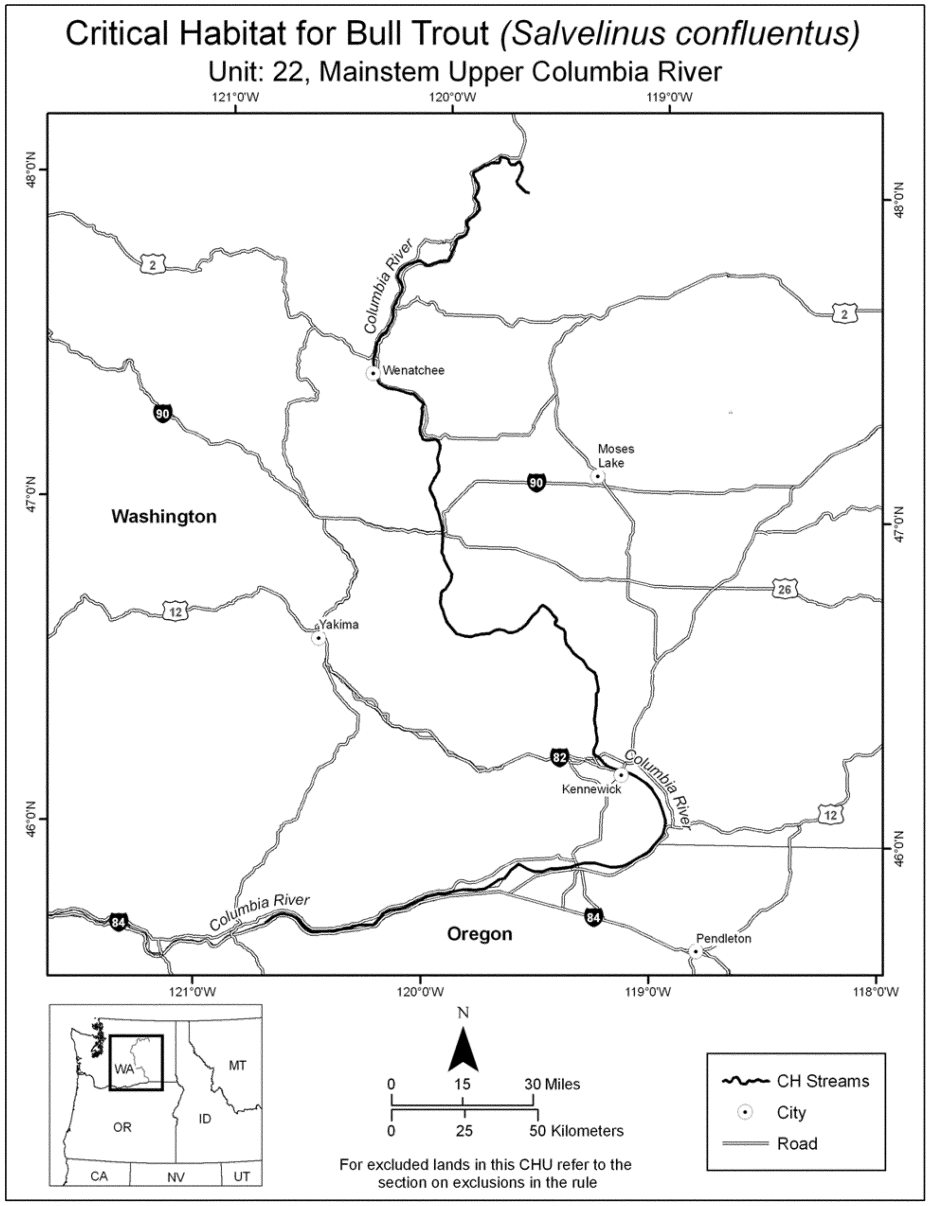
(i) This unit consists of 520.1 km (323.2 mi) of streams. The unit is located in central Washington.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Columbia River	45.715	−120.693	47.997	−119.633

(iii) Waterbodies associated with the following habitat conservation plans (HCPs) totaling 2.5 km (1.6 mi) of streams have been excluded from critical habitat designation under section 4(b)(2) of the Act in this unit. These are waterbodies within the geographic area covered by the Washington State Forest Practices Habitat Conservation Plan (HCP).

(iv) Map of Unit 22, Mainstem Upper Columbia River follows:



(30) Unit 23: Mainstem Snake River

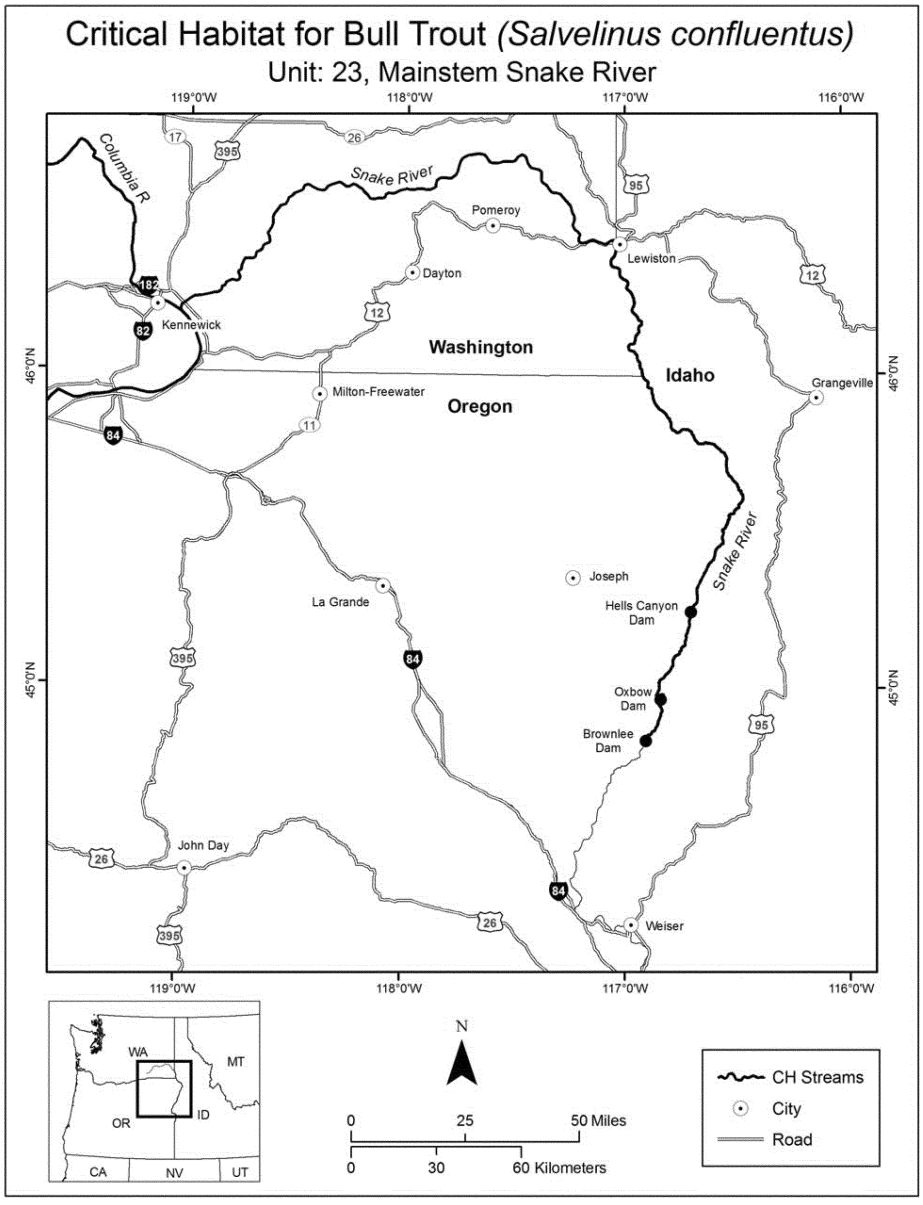
(i) This unit consists of 451.7 km (280.6 mi) of streams. The unit is located in southeastern Washington, northeastern Oregon, and west-central Idaho.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Snake River	46.188	−119.031	44.836	−116.901

(iii) No waterbodies are excluded from critical habitat designation in this unit.

(iv) Map of Unit 23, Mainstem Snake River follows:



(31) Unit 24: Malheur River Basin

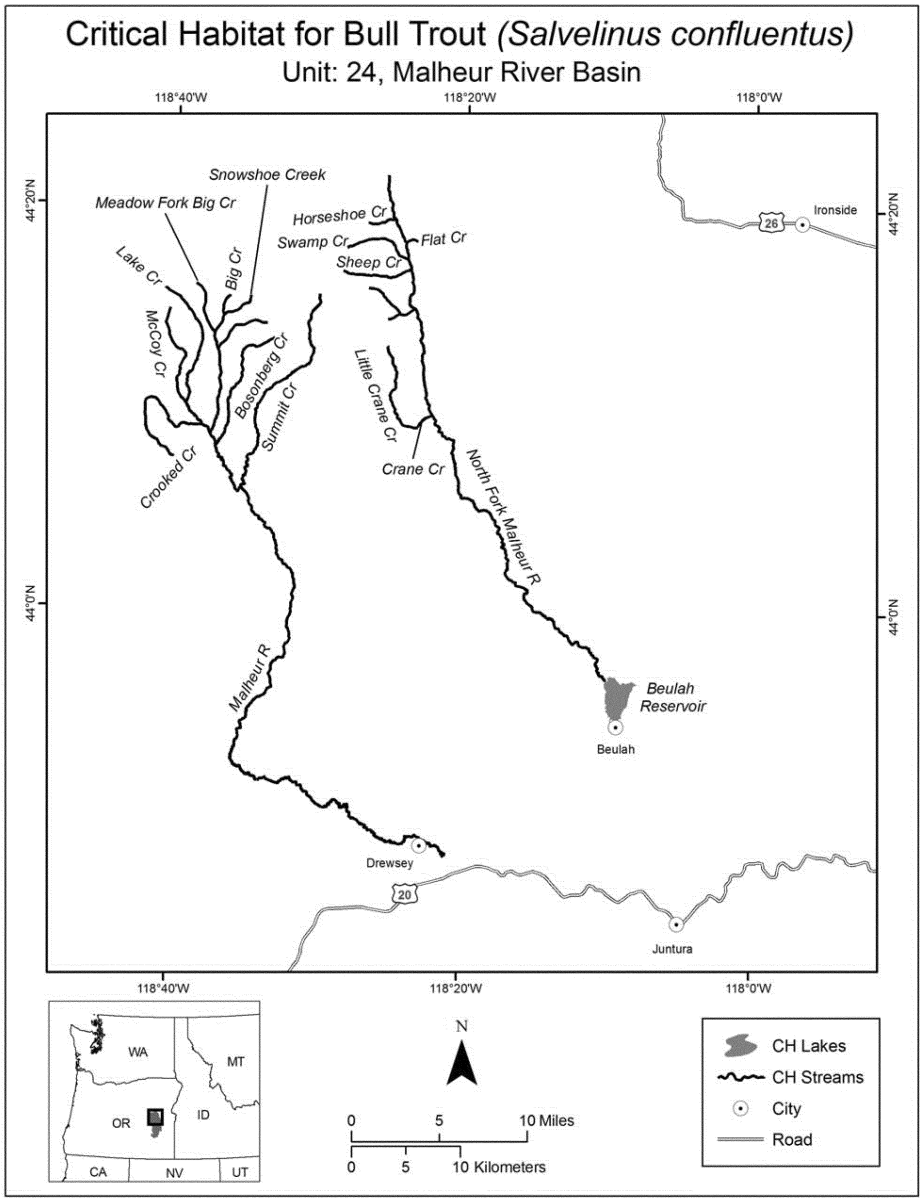
(i) This unit consists of 272.3 km (169.2 mi) of streams and 715.9 ha (1,768.9 ac) of lakes and reservoirs. The unit is located in eastern Oregon.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Beulah Reservoir	43.931	−118.154		
Big Creek	44.259	−118.604	44.145	−118.625
Bosonberg Creek	44.224	−118.553	44.135	−118.619
Corral Basin Creek	44.236	−118.562	44.214	−118.618
Crane Creek	44.151	−118.387	44.162	−118.371
Crooked Creek	44.125	−118.666	44.151	−118.635
Elk Creek	44.245	−118.409	44.250	−118.392
Flat Creek	44.305	−118.390	44.304	−118.403
Horseshoe Creek	44.320	−118.448	44.323	−118.416
Lake Creek	44.265	−118.679	44.145	−118.625
Little Crane Creek	44.219	−118.423	44.151	−118.387
Malheur River	44.145	−118.625	43.797	−118.350
McCoy Creek	44.248	−118.674	44.169	−118.654
Meadow Fork Big Creek	44.268	−118.644	44.227	−118.622
North Fork Elk Creek	44.266	−118.446	44.245	−118.409
North Fork Malheur River	44.360	−118.425	43.945	−118.168
Sheep Creek	44.281	−118.476	44.281	−118.397
Snowshoe Creek	44.259	−118.581	44.242	−118.612
South Fork Elk Creek	44.241	−118.423	44.245	−118.409
Summit Creek	44.261	−118.502	44.099	−118.588
Swamp Creek	44.299	−118.471	44.291	−118.401

(iii) No waterbodies are excluded from critical habitat designation in this unit.

(iv) Map of Unit 24, Malheur River Basin follows:



(32) Unit 25: Jarbidge River

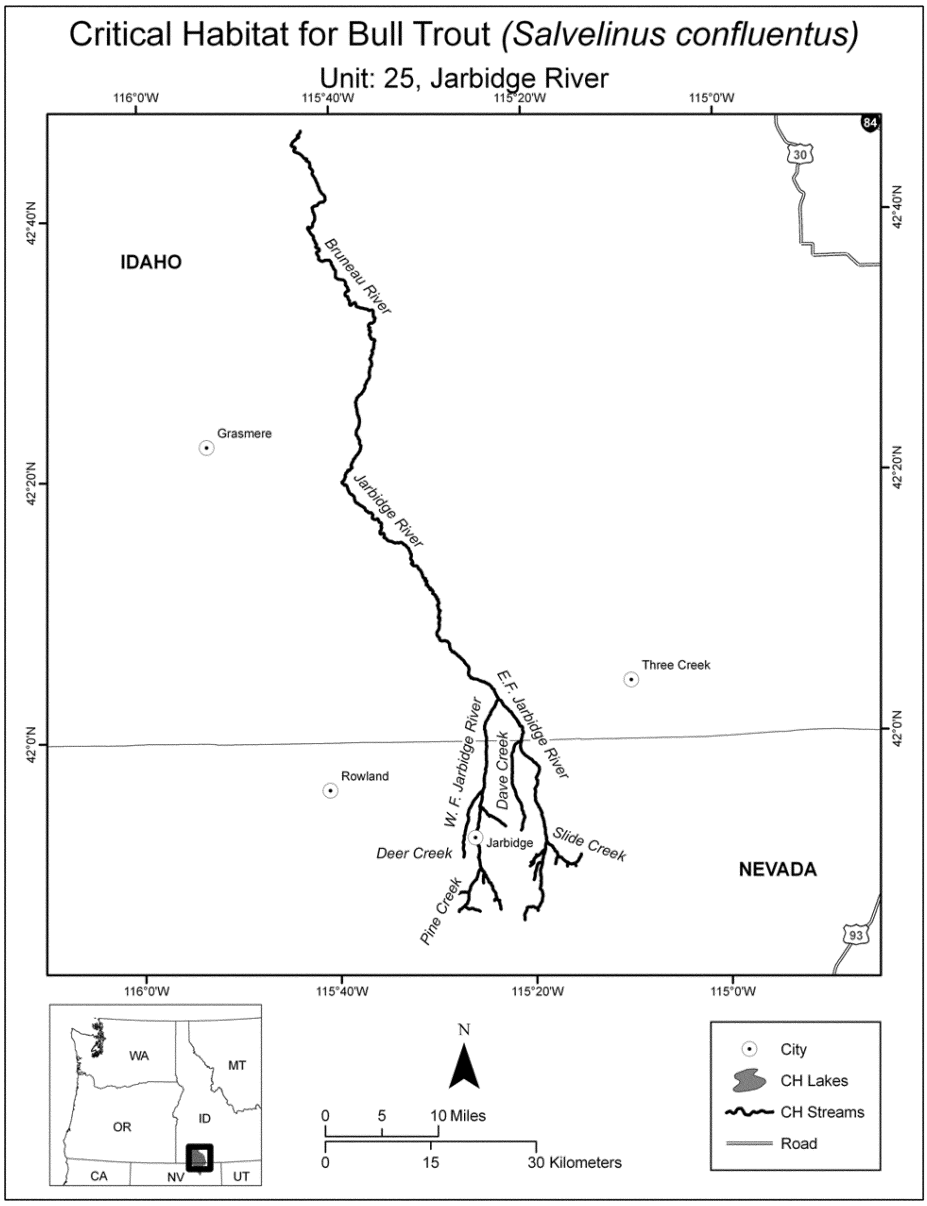
(i) This unit consists of 245.2 km (152.4 mi) of streams. The unit is located in northeastern Nevada and southwestern Idaho.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Bruneau River	42.780	−115.715	42.329	−115.652
Cougar Creek	41.840	−115.320	41.818	−115.335
Dave Creek	41.882	−115.356	41.995	−115.353
Deer Creek	41.848	−115.455	41.933	−115.420
East Fork Jarbidge River	41.778	−115.330	42.049	−115.391
Fall Creek	41.856	−115.315	41.835	−115.342
Fox Creek	41.827	−115.420	41.815	−115.422
Gods Pocket Creek	41.847	−115.293	41.838	−115.298
Jack Creek	41.887	−115.383	41.912	−115.425
Jarbidge River	42.049	−115.391	42.329	−115.652
Jenny Creek	41.901	−115.410	41.900	−115.410
Pine Creek	41.779	−115.464	41.833	−115.425
Sawmill Creek	41.794	−115.399	41.792	−115.404
Slide Creek	41.867	−115.312	41.850	−115.254
Unnamed E Trib Off Pine Creek	41.779	−115.429	41.786	−115.455
Unnamed Headwater Trib Off E Fk Jarbidge River	41.767	−115.352	41.782	−115.330
Unnamed Lower Trib Off Fall Creek	41.849	−115.327	41.850	−115.331
Unnamed Lower Trib Off Slide Creek	41.839	−115.277	41.834	−115.278
Unnamed Upper Trib Off Fall Creek	41.843	−115.335	41.840	−115.340
Unnamed Upper Trib Off Slide Creek	41.838	−115.264	41.834	−115.263
Unnamed W Trib Off Pine Creek	41.802	−115.465	41.803	−115.447
Unnamed W Trib Off West Fork Jarbidge River	41.781	−115.393	41.792	−115.397
West Fork Jarbidge River	41.792	−115.395	42.049	−115.391

(iii) No waterbodies are excluded from critical habitat designation in this unit.

(iv) Map of Unit 25, Jarbidge River follows:



(33) Unit 26: Southwest Idaho Basins – East Half

(i) The entire Southwest Idaho Basins unit consists of 2,150 km (1,335.9 mi) of streams and 4,310.5 ha (10,651.5 ac) of lakes and reservoirs. The unit is located in southwestern Idaho.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Alta Creek	43.701	−115.248	43.701	−115.243
Anderson Creek	44.605	−116.187	44.527	−116.243
Anderson Ranch Reservoir	43.415	−115.348		
Antelope Creek	44.400	−116.169	44.375	−116.198
Arrowrock Reservoir	43.599	−115.840		
Bald Mountain Creek	43.756	−115.277	43.818	−115.267
Ballentyne Creek	43.983	−115.143	44.011	−115.233
Banner Creek	43.998	−115.543	44.037	−115.522
Baron Creek	44.093	−115.028	44.137	−115.149
Basin Creek	44.377	−115.702	44.341	−115.659
Bass Creek	43.741	−115.003	43.791	−114.975
Bear Creek	43.702	−115.007	43.727	−114.901
Bear Creek	44.017	−115.406	43.938	−115.457
Bear River	43.987	−115.341	43.892	−115.489
Beaver Creek	44.318	−115.692	44.317	−115.685
Big Peak Creek	43.658	−114.795	43.628	−114.730
Big Silver Creek	43.989	−115.328	43.989	−115.256
Big Smoky Creek	43.792	−114.756	43.604	−114.916
Big Water Gulch	43.665	−115.043	43.604	−115.108
Bitter Creek	44.421	−115.678	44.406	−115.618
Black Warrior Creek	43.945	−115.190	43.818	−115.291
Blind Canyon	43.768	−114.724	43.769	−114.720
Bluff Creek	43.697	−114.686	43.700	−114.755
Boardman Creek	43.525	−115.019	43.612	−114.940
Boiler Grade Creek	43.720	−115.262	43.730	−115.263
Boise River	43.713	−115.636	43.645	−115.749
Buck Creek	43.747	−115.326	43.803	−115.397
Bull Creek	44.491	−115.615	44.422	−115.813
Burnt Log Creek	43.646	−115.017	43.643	−114.970
Canyon Creek	44.303	−115.231	44.172	−115.244
Carrie Creek	43.590	−114.691	43.552	−114.759
Chapman Creek	44.097	−115.290	44.136	−115.314
Clear Creek	44.228	−115.409	44.248	−115.395
Corbus Creek	43.737	−115.165	43.747	−115.190
Cow Creek	44.021	−115.296	43.991	−115.255
Crooked River	44.027	−115.338	43.853	−115.537
Cub Creek	43.979	−115.353	43.980	−115.402
Daisy Creek	44.269	−115.748	44.260	−115.694
Deadwood Creek	43.532	−115.015	43.585	−115.008
Deadwood Reservoir	44.309	−115.663		
Deadwood River	44.547	−115.561	44.342	−115.658
Deadwood River	44.293	−115.646	44.079	−115.658
Decker Creek	43.718	−115.047	43.769	−115.145
Deer Creek	44.347	−115.549	44.396	−115.616
Devils Creek	43.642	−115.564	43.685	−115.592
Dewey Creek	44.772	−116.276	44.807	−116.278
Disappointment Creek	44.830	−116.707	44.825	−116.658
Dog Creek	43.529	−115.302	43.529	−115.302
East Fork Big Peak Creek	43.628	−114.730	43.630	−114.699
East Fork Deadwood River	44.494	−115.571	44.492	−115.575
East Fork Eightmile Creek	44.200	−115.355	44.133	−115.407
East Fork Elk Creek	43.742	−115.231	43.709	−115.254
East Fork Roaring River	43.687	−115.438	43.694	−115.465
East Fork Sheep Creek	43.674	−115.486	43.684	−115.548
East Fork Skeleton Creek	43.685	−115.019	43.658	−114.999
East Fork Warm Springs Creek	44.317	−115.538	44.294	−115.622
East Fork Weiser River	44.729	−116.279	44.846	−116.380
East Fork Yuba River	43.747	−115.155	43.723	−115.153
Eightmile Creek	44.251	−115.400	44.118	−115.413
Elk Creek	43.751	−115.307	43.678	−115.265
Emma Creek	43.791	−114.835	43.735	−114.906
Feather River	43.678	−115.265	43.687	−115.286
Flytrip Creek	43.928	−115.019	43.939	−114.974
French Creek	43.741	−115.627	43.741	−115.638
Garney Creek	44.091	−115.609	44.094	−115.611
Gates Creek	44.348	−115.328	44.292	−115.306
Goat Creek	43.729	−115.007	43.715	−114.980
Goat Creek	44.393	−115.680	44.398	−115.619
Grouse Creek	43.731	−115.079	43.710	−115.077
Grouse Creek	44.835	−116.708	44.826	−116.657
Habit Creek	44.349	−115.713	44.330	−115.673

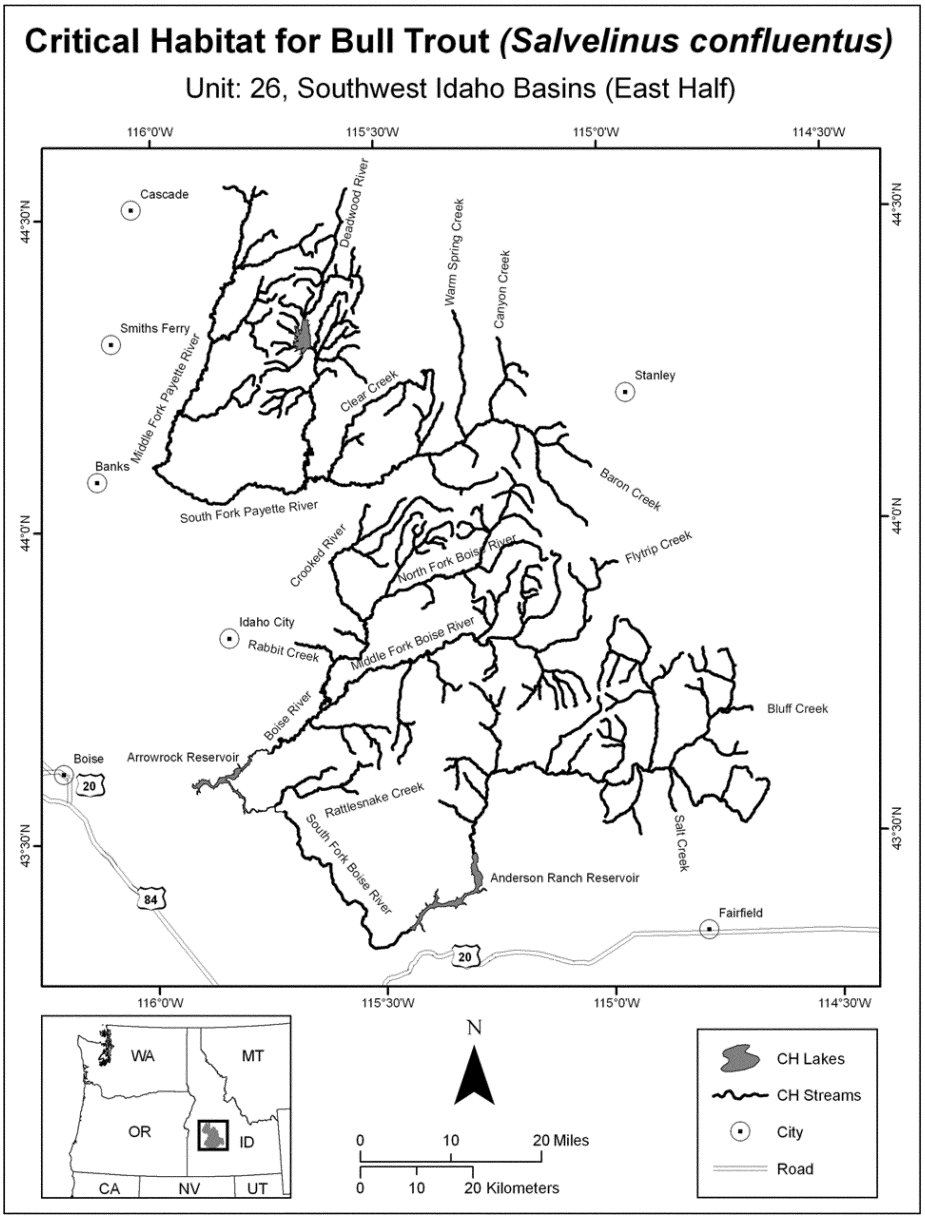
Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Hornet Creek	44.797	−116.733	44.838	−116.635
Horseshoe Creek	44.062	−115.317	44.053	−115.317
Hungarian Creek	43.818	−115.539	43.841	−115.603
Johnson Creek	43.844	−114.971	43.774	−114.929
Johnson Creek	43.947	−115.130	43.940	−115.285
Lightning Creek	44.233	−115.766	44.193	−115.937
Little Bear Creek	43.746	−114.975	43.779	−114.936
Little Queens River	43.930	−115.144	43.843	−115.185
Little Rattlesnake Creek	43.589	−115.700	43.617	−115.607
Little Silver Creek	44.001	−115.326	43.997	−115.289
Little Smoky Creek	43.585	−114.680	43.608	−114.872
Little Weiser River	44.637	−116.175	44.506	−116.308
Lodgepole Creek	43.888	−115.295	43.930	−115.315
Loggy Creek	43.763	−114.788	43.800	−114.790
Long Creek	44.153	−115.533	44.129	−115.579
Long Fork Silver Creek	44.411	−115.680	44.382	−115.761
Louise Creek	43.964	−115.392	43.968	−115.425
Mattingly Creek	43.853	−115.036	43.846	−115.049
McLeod Creek	44.022	−115.163	44.057	−115.208
McPhearson Creek	44.038	−115.159	44.066	−115.199
Meadow Creek	43.764	−115.617	43.765	−115.622
Middle Fork Boise River	43.946	−115.033	43.713	−115.636
Middle Fork Payette River	44.551	−115.765	44.103	−116.000
Middle Fork Roaring River	43.624	−115.466	43.688	−115.452
Middle Fork Warm Springs Creek	44.351	−115.565	44.326	−115.599
No Man Creek	44.247	−115.591	44.247	−115.630
North Creek	44.818	−116.721	44.814	−116.693
North Fork Baron Creek	44.145	−115.078	44.131	−115.102
North Fork Big Smoky Creek	43.723	−114.789	43.748	−114.802
North Fork Boise River	44.094	−115.225	43.713	−115.636
North Fork Canyon Creek	44.260	−115.199	44.250	−115.215
North Fork Deer Creek	44.452	−115.545	44.408	−115.554
North Fork Gold Fork River	44.756	−115.801	44.674	−115.897
North Fork Ross Fork	43.852	−114.976	43.796	−114.989
North Fork Whitehawk Creek	44.291	−115.539	44.277	−115.585
Olive Creek	44.787	−116.694	44.836	−116.628
Onion Creek	44.234	−115.776	44.214	−115.825
Oxtail Creek	44.439	−115.639	44.459	−115.668
Packsaddle Creek	44.223	−115.698	44.224	−115.744
Parks Creek	43.629	−115.337	43.582	−115.342
Peace Creek	44.356	−115.734	44.341	−115.792
Pikes Fork	44.048	−115.441	43.971	−115.562
Placer Creek	44.806	−116.738	44.808	−116.680
Poison Creek	44.491	−116.163	44.478	−116.186
Pole Creek	44.494	−116.203	44.471	−116.219
Queens River	43.959	−115.119	43.821	−115.208
Rabbit Creek	43.797	−115.613	43.821	−115.690
Rainbow Creek	43.630	−115.341	43.630	−115.361
Rattlesnake Creek	43.622	−115.526	43.561	−115.740
Renwick Creek	44.397	−116.140	44.367	−116.196
Right Creek	43.855	−115.187	43.867	−115.194
Roaring River	43.647	−115.480	43.790	−115.440
Rock Creek	43.894	−115.045	43.939	−115.081
Rockey Creek	43.969	−115.424	44.011	−115.397
Ross Fork	43.796	−114.989	43.774	−114.929
Royal Gorge	43.751	−114.725	43.750	−114.723
Russel Gulch	43.577	−115.559	43.591	−115.596
Salt Creek	43.607	−114.872	43.539	−114.860
Sawmill Creek	43.709	−115.095	43.761	−115.121
Scenic Creek	43.901	−115.145	43.921	−115.179
Scotch Creek	43.687	−115.438	43.690	−115.432
Scott Creek	43.891	−115.153	43.883	−115.181
Scott Creek	44.191	−115.762	44.223	−115.648
Second Fork Squaw Creek	44.404	−116.192	44.367	−116.196
Sheep Creek	43.617	−115.511	43.697	−115.662
Sheep Creek	44.504	−116.175	44.542	−116.222
Silver Creek	44.408	−115.750	44.304	−115.865
Sixteen-to-one Creek	44.467	−115.755	44.470	−115.718
Skeleton Creek	43.694	−114.987	43.589	−115.022
Smith Creek	44.200	−115.758	44.214	−115.710
Smokey Dome Canyon	43.503	−114.938	43.547	−114.956

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Snowslide Creek	43.738	−114.830	43.723	−114.789
South Fork Beaver Creek	44.297	−115.733	44.295	−115.686
South Fork Boise River	43.358	−115.449	43.481	−115.307
South Fork Boise River	43.335	−115.537	43.550	−115.722
South Fork Canyon Creek	44.226	−115.192	44.210	−115.170
South Fork Clear Creek	44.183	−115.484	44.232	−115.440
South Fork Cub Creek	43.968	−115.356	43.977	−115.389
South Fork Gold Fork River	44.653	−115.840	44.674	−115.897
South Fork Payette River	43.999	−115.040	44.103	−116.000
South Fork Ross Fork	43.735	−115.022	43.796	−114.989
South Fork Scott Creek	44.187	−115.703	44.222	−115.661
Squaw Creek	44.436	−116.153	44.437	−116.279
Stratton Creek	44.446	−115.631	44.470	−115.587
Tenmile Creek	44.086	−115.237	44.119	−115.386
Third Fork Squaw Creek	44.453	−116.157	44.424	−116.211
Trail Creek	44.164	−115.093	44.158	−115.084
Trail Creek	43.912	−115.407	43.871	−115.409
Trail Creek	44.239	−115.759	44.279	−115.667
Trail Creek-Yuba	43.707	−115.118	43.763	−115.146
Trinity Creek	43.600	−115.270	43.630	−115.341
Tripod Creek	43.896	−115.155	43.895	−115.189
Ucon Creek	44.379	−115.721	44.371	−115.767
Unnamed	43.867	−115.194	43.877	−115.194
Unnamed	43.781	−115.252	43.766	−115.273
Unnamed	43.861	−115.271	43.872	−115.295
Unnamed	43.751	−115.361	43.722	−115.368
Unnamed	43.987	−115.418	44.005	−115.416
Unnamed	44.201	−115.717	44.182	−115.721
Unnamed	43.625	−115.556	43.628	−115.556
Unnamed	43.664	−115.527	43.657	−115.526
Unnamed	43.657	−115.526	43.653	−115.528
Unnamed	44.026	−115.275	44.035	−115.272
Unnamed	44.029	−115.368	44.026	−115.365
Unnamed - Off Olive Creek	44.801	−116.661	44.787	−116.666
Unnamed - Off Beaver Creek	44.336	−115.718	44.318	−115.687
Unnamed - Off Black Warrior Creek	43.896	−115.263	43.878	−115.245
Unnamed - Off East Fork Warm Springs Creek	44.324	−115.564	44.312	−115.578
Unnamed - Off Long Creek	44.136	−115.535	44.148	−115.547
Unnamed - Off Middle Fork Warm Springs Creek	44.324	−115.541	44.332	−115.580
Unnamed - Off North Fork Canyon Creek	44.241	−115.166	44.260	−115.199
Unnamed - Off South Fork Beaver Creek	44.283	−115.722	44.294	−115.687
Unnamed 1 - Off Deer Creek	44.425	−115.587	44.407	−115.586
Unnamed 1 - Off Middle Fork Payette River	44.552	−115.835	44.524	−115.775
Unnamed 1 - Off Olive Creek	44.812	−116.644	44.791	−116.649
Unnamed 1 - Off Third Fork Squaw Creek	44.420	−116.148	44.424	−116.211
Unnamed 1- Off Emma Creek	43.772	−114.884	43.759	−114.872
Unnamed 2 - Off Deer Creek	44.388	−115.554	44.401	−115.560
Unnamed 2 - Off Eightmile Creek	44.198	−115.419	44.174	−115.398
Unnamed 2 - Off Of Unnamed 1 Off Of Third Fork Squaw Creek	44.421	−116.172	44.415	−116.191
Unnamed 3 - Off Deer Creek	44.422	−115.534	44.407	−115.542
Unnamed 3 - Off Middle Fork Payette River	44.540	−115.739	44.539	−115.771
Unnamed 3 - Off Of Unnamed 1 Off Of Third Fork Squaw Creek	44.426	−116.161	44.416	−116.202
Unnamed 3 - Off Third Fork Squaw Creek	44.433	−116.168	44.434	−116.204
Unnamed 4 - Off Squaw Creek	44.455	−116.200	44.470	−116.220
Unnamed 5 - Off Squaw Creek	44.460	−116.166	44.479	−116.194
Unnamed 6 - Off Unamed 5 Off Of Squaw Creek	44.456	−116.175	44.476	−116.191
Unnamed Trib 3 - Off North Fork Gold Fork River	44.747	−115.812	44.708	−115.817
Unnamed Trib 4 - Off North Fork Gold Fork River	44.679	−115.812	44.706	−115.820
Valley Creek	44.280	−115.743	44.333	−115.777
Vienna Creek	43.802	−114.906	43.802	−114.910
Wagontown Creek	43.565	−115.277	43.607	−115.324
Wapiti Creek	44.117	−115.202	44.094	−115.186
Warm Spring Creek	44.292	−115.306	44.144	−115.304
Warm Springs Creek	44.367	−115.580	44.279	−115.631
West Fork Big Peak Creek	43.628	−114.730	43.646	−114.719
West Fork Big Smoky Creek	43.788	−114.821	43.744	−114.727
West Fork Creek	44.048	−115.247	44.055	−115.210
West Fork Skeleton Creek	43.672	−115.027	43.651	−114.974
West Parks Creek	43.623	−115.341	43.612	−115.366
West Warrior Creek	43.882	−115.298	43.840	−115.257
Whitehawk Creek	44.261	−115.556	44.235	−115.524

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Wild Buck Creek	44.389	−115.650	44.342	−115.658
Willow Creek	43.725	−115.023	43.605	−115.144
Willow Creek	43.959	−115.531	43.944	−115.484
Wilson Creek	44.366	−115.565	44.292	−115.641
Yuba River	43.707	−115.202	43.803	−115.160

(iii) No waterbodies are excluded from critical habitat designation in this unit.

(iv) Map of Unit 26, Southwest Idaho Basins – East Half follows:



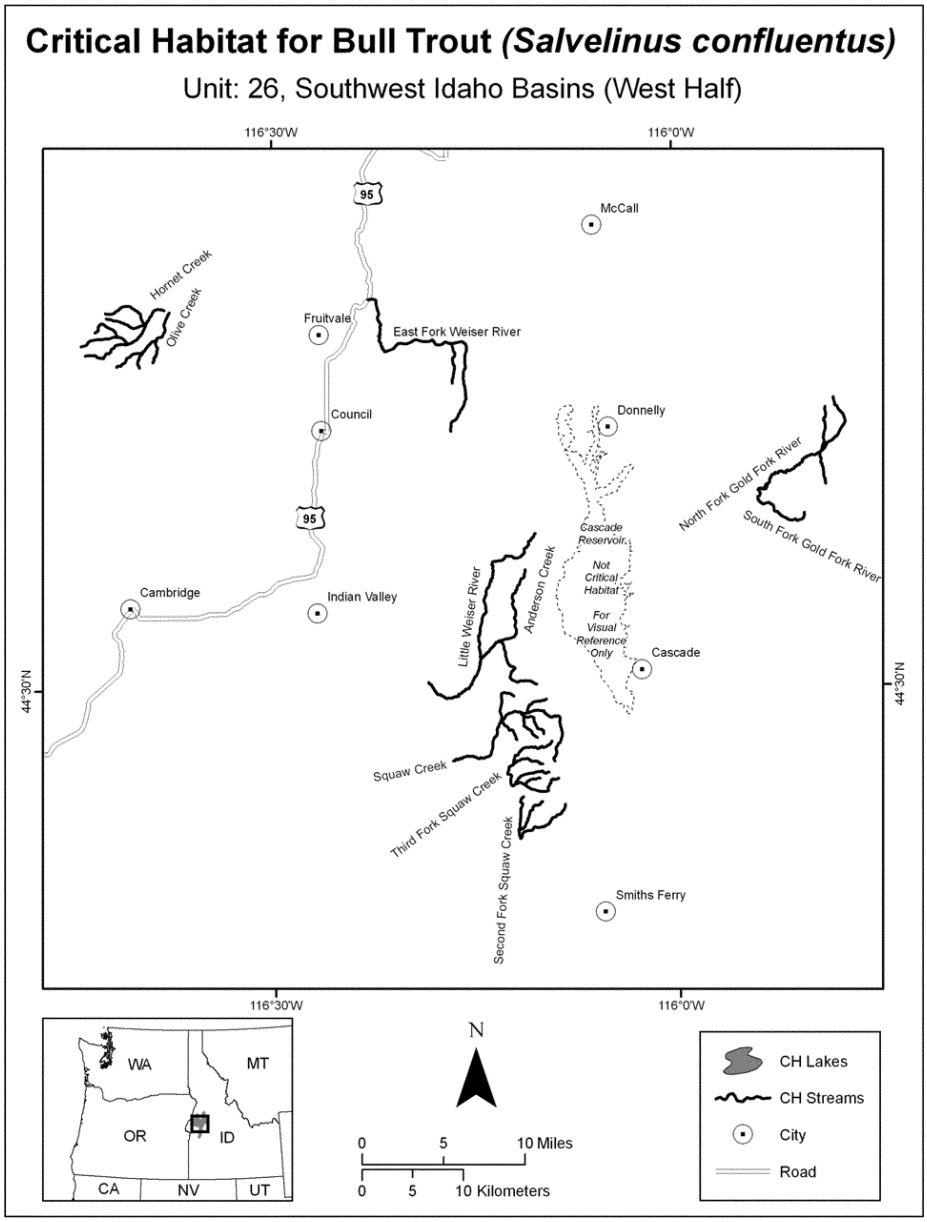
(34) Unit 26: Southwest Idaho Basins – West Half

(i) The entire Southwest Idaho Basins unit consists of 2,150 km (1,335.9 mi) of streams and 4,310.5 ha (10,651.5 ac) of lakes and reservoirs. The unit is located in southwestern Idaho.

(ii) See paragraph (e)(33)(ii) of this entry for a list of individual waterbodies in this unit.

(iii) No waterbodies are excluded from critical habitat designation in this unit.

(iv) Map of Unit 26, Southwest Idaho Basins – West Half follows:



(35) Unit 27: Salmon River – East Half

(i) The entire Salmon River unit consists of 7,376.5 km (4,583.5 mi) of streams and 1,683.8 ha (4,160.6 ac) of lakes and reservoirs. The unit is located in central Idaho.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
(Mill Creek (Tributary to Big Creek)	44.467	−113.685	44.507	−113.619
Airplane Lake	45.156	−114.599		
Alpine Creek	45.032	−114.655	45.080	−114.619
Alpine Creek	43.930	−114.970	43.896	−114.907
Alpine Creek Lake #5	45.078	−114.617		
Alturas Lake	43.914	−114.861		
Alturas Lake Creek	43.893	−114.919	44.004	−114.837
Arctic Creek	45.498	−114.998	45.479	−115.031
Arnett Creek	45.265	−114.201	45.205	−114.134
Arrastra Creek	44.841	−114.351	44.868	−114.426
Back Creek	44.511	−115.707	44.512	−115.739
Baldwin Creek	44.500	−115.106	44.541	−115.068
Banner Creek	44.291	−115.188	44.356	−115.209
Bargamin Creek	45.770	−114.935	45.567	−115.192
Basin Creek	44.368	−114.943	44.263	−114.818
Basin Creek	45.657	−114.960	45.674	−114.991
Bayhorse Creek	44.378	−114.257	44.411	−114.402
Beagle Creek	44.996	−114.480	44.991	−114.462
Bear Creek	44.597	−114.463	44.569	−114.362
Bear Creek	44.834	−115.514	44.826	−115.483
Bear Creek	45.106	−115.618	45.117	−115.638
Bear Creek	44.606	−115.601	44.623	−115.691
Bear Creek-Loon	44.735	−114.862	44.742	−114.818
Bear Creek-Marsh	44.490	−115.099	44.439	−115.101
Bear Valley Creek	44.804	−113.867	44.772	−113.708
Bear Valley Creek	44.236	−115.500	44.449	−115.231
Bearskin Creek	44.330	−115.529	44.415	−115.467
Beaver Creek	45.272	−114.186	45.274	−114.335
Beaver Creek	43.836	−114.907	43.925	−114.810
Beaver Creek	44.472	−114.954	44.406	−115.171
Beaver Creek	45.242	−115.315	45.250	−115.340
Belvidere Creek	45.041	−115.387	45.069	−115.365
Bernard Creek	44.975	−114.735	44.982	−114.760
Big Bear Creek	45.472	−114.963	45.457	−115.093
Big Boulder Creek	44.113	−114.551	44.118	−114.429
Big Buck Creek	45.252	−115.540	45.263	−115.586
Big Chief Creek	44.817	−115.369	44.838	−115.298
Big Cottonwood Creek	44.879	−115.207	44.912	−115.083
Big Creek	44.442	−113.601	44.495	−113.819
Big Creek	45.060	−115.452	45.094	−114.733
Big Creek Marsh	45.091	−115.333		
Big Eightmile Creek	44.560	−113.563	44.739	−113.460
Big Flat Creek	45.227	−115.545	45.235	−115.590
Big Harrington Creek	45.518	−114.824	45.473	−114.964
Big Mallard Creek	45.537	−115.270	45.544	−115.280
Big Ramey Creek	45.279	−115.244	45.177	−115.160
Big Timber Creek	44.509	−113.539	44.699	−113.375
Birdseye Creek	44.938	−114.457	44.927	−114.385
Blackeagle Creek	44.992	−114.568	45.006	−114.547
Blackmare Creek	44.809	−115.796	44.822	−115.704
Blue Fork Silver Creek	44.854	−114.359	44.883	−114.355
Blue Lake Creek	45.132	−115.781	45.133	−115.717
Bohannon Creek	45.229	−113.668	45.112	−113.747
Boulder Creek	45.277	−115.341	45.242	−115.315
Boulder Creek	45.129	−116.476	45.204	−116.311
Bowery Creek	44.011	−114.390	44.032	−114.461
Bray Creek	44.675	−113.814	44.706	−113.769
Browning Creek	44.759	−115.364	44.738	−115.407
Bruin Creek	45.517	−115.076	45.492	−115.113
Brush Creek	44.965	−114.860	44.955	−114.734
Buck Creek	44.929	−115.003	44.896	−115.065
Buck Creek	44.751	−115.480	44.792	−115.519
Buckhorn Creek	44.853	−115.887	44.922	−115.737
Bum Creek	45.036	−115.287	44.995	−115.319
Burgdorf Creek	45.268	−115.911	45.255	−115.963

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Burn Creek	45.500	−116.105	45.505	−116.125
Burnt Creek	44.149	−113.633	44.284	−113.653
Burntlog Creek	44.718	−115.420	44.803	−115.519
Cabin Creek	44.419	−114.902	44.397	−114.828
Cabin Creek	43.929	−114.880	43.928	−114.843
Cabin Creek	45.195	−114.838	45.126	−114.936
Cabin Creek	44.703	−115.648	44.666	−115.686
Cabin Creek-Loon	44.760	−114.693	44.691	−114.754
Cache Creek	45.636	−115.118	45.691	−115.181
Cache Creek	44.262	−115.403	44.346	−115.420
Cache Creek-Loon	44.776	−114.688	44.801	−114.806
California Creek	45.341	−115.851	45.448	−115.760
Camas Creek	44.708	−114.388	44.892	−114.723
Camp Creek	45.222	−114.115	45.279	−114.159
Camp Creek	44.945	−114.595	44.955	−114.611
Camp Creek	45.643	−114.961	45.657	−115.001
Camp Creek	44.985	−115.414	44.990	−115.444
Camp Creek	44.607	−115.680	44.605	−115.634
Camp Creek	44.898	−115.717	44.891	−115.618
Cane Creek	44.978	−115.262	44.953	−115.292
Canyon Creek	44.575	−114.914	44.568	−114.847
Cape Horn Creek	44.333	−115.288	44.395	−115.169
Carlson Creek	45.345	−115.517	45.339	−115.560
Casner Creek	44.281	−115.452	44.295	−115.485
Castle Creek	44.826	−114.313	44.801	−114.472
Cat Creek	44.619	−114.653	44.652	−114.628
Cave-Big Creek	45.240	−114.847	45.132	−114.956
Cayuse Creek	45.500	−114.603	45.474	−114.569
Challis Creek	44.552	−114.512	44.570	−114.187
Chamberlain Creek	45.336	−115.330	45.454	−114.933
Champion Creek	44.026	−114.839	43.988	−114.691
Chicken Creek	45.287	−115.474	45.319	−115.412
Chip Creek	44.443	−115.359	44.429	−115.341
Cinnabar Creek	44.912	−115.267	44.952	−115.294
Clear Creek	45.146	−114.579	45.295	−114.352
Cliff Creek	44.790	−115.697	44.769	−115.744
Club Creek	45.291	−115.037	45.266	−115.084
Cold Creek	45.488	−115.071	45.465	−115.077
Cold Creek	44.371	−115.318	44.425	−115.311
Cold Spring Creek-Loon	44.682	−114.841	44.718	−114.799
Colson Creek	45.299	−114.532	45.379	−114.552
Cook Creek	44.373	−115.445	44.408	−115.378
Cooper Creek	44.675	−113.703	44.726	−113.726
Corn Creek	45.368	−114.685	45.385	−114.559
Corral Creek	45.545	−114.111	45.498	−114.147
Corral Creek	44.876	−114.220	44.779	−114.248
Cottonwood Creek	44.623	−114.761	44.593	−114.680
Cougar Creek	44.810	−115.805	44.889	−115.717
Crooked Creek	45.195	−115.032	45.163	−115.129
Crooked Creek	45.612	−115.439	45.434	−115.667
Cub Creek	44.319	−115.518	44.324	−115.474
Cultus Creek	44.781	−115.211	44.813	−115.176
Curtis Creek	44.562	−115.760	44.652	−115.704
Dagger Creek	44.456	−115.374	44.523	−115.282
Dahlonega Creek	45.524	−113.836	45.541	−113.929
Dairy Creek	44.620	−113.594	44.637	−113.553
Deadhorse Creek	45.574	−116.145	45.613	−116.067
Deadwood Creek	44.349	−114.836	44.376	−114.777
Deep Creek	45.018	−114.098	45.126	−114.216
Deep Creek	45.051	−115.754	45.071	−115.743
Deer Creek	44.776	−113.810	44.793	−113.778
Deer Creek	44.571	−114.907	44.548	−114.855
Deer Creek	45.382	−115.092	45.453	−115.130
Devils Toe Creek	45.436	−114.893	45.419	−114.935
Dillinger Creek	45.530	−115.108	45.480	−115.215
Disappointment Creek	45.422	−114.880	45.300	−114.945
Dismal Creek	45.351	−114.950	45.306	−114.958
Ditch Creek	45.506	−114.004	45.597	−114.041
Dog Creek	45.380	−115.151	45.448	−115.163
Dollar Creek	44.722	−115.696	44.759	−115.752
Duffield Creek	44.570	−114.931	44.551	−115.008

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Dump Creek	45.329	−114.041	45.318	−114.039
Dutch Creek	44.799	−115.520	44.798	−115.523
Dynamite Creek	44.871	−115.208	44.876	−115.058
East Basin Creek	44.343	−114.791	44.277	−114.850
East Fork Big Ramey Creek	45.245	−115.137	45.214	−115.188
East Fork Burntlog Creek	44.730	−115.427	44.737	−115.502
East Fork Cache Creek	44.306	−115.390	44.314	−115.424
East Fork Elk Creek	44.481	−115.360	44.485	−115.453
East Fork Fall Creek	45.360	−115.964	45.415	−115.976
East Fork Hayden Creek	44.664	−113.684	44.760	−113.712
East Fork Herd Creek	43.984	−114.204	44.058	−114.234
East Fork John Day Creek	45.577	−116.154	45.573	−116.230
East Fork Mayfield Creek	44.480	−114.714	44.539	−114.798
East Fork Morgan Creek	44.670	−113.829	44.675	−113.900
East Fork Owl Creek	45.340	−114.463	45.345	−114.458
East Fork Pahsimeroi River	44.081	−113.721	44.157	−113.704
East Fork Salmon River	43.929	−114.555	44.268	−114.327
East Fork South Fork Salmon River	44.886	−115.257	45.015	−115.714
East Fork Thomas Creek	44.668	−115.043	44.705	−115.028
East Fork Valley Creek	44.327	−114.988	44.357	−115.049
East Fork Whimstick Creek	45.300	−115.029	45.288	−114.962
East Pass Creek	44.050	−114.277	44.076	−114.244
Eightmile Creek	44.471	−114.716	44.426	−114.620
Elevenmile Creek	44.436	−114.545	44.467	−114.579
Elk Creek	44.196	−115.134	44.293	−115.024
Elk Creek	44.485	−115.453	44.410	−115.373
Elk Creek	45.157	−115.432	45.156	−115.585
Elkhorn Creek	44.582	−115.370	44.615	−115.257
Elkhorn Creek	45.270	−116.122	45.404	−116.095
Enos Creek	45.148	−115.795	45.102	−115.851
Fall Creek	45.331	−115.996	45.432	−115.984
Falls Creek	44.611	−113.685	44.565	−113.879
Falls Creek	44.881	−115.508	44.885	−115.536
Fernan Creek	45.238	−115.813	45.235	−115.850
Fir Creek	44.618	−114.671	44.655	−114.698
Fir Creek	44.344	−115.299	44.428	−115.291
Fish Creek	45.352	−115.304	45.384	−115.335
Fishhook Creek	44.133	−114.982	44.143	−114.920
Fitsum Creek	45.000	−115.763	44.999	−115.723
Fivemile Creek	44.355	−114.616	44.405	−114.655
Fivemile Creek	45.412	−115.470	45.392	−115.456
Flat Creek	45.302	−115.880	45.271	−115.837
Float Creek	44.523	−115.179	44.571	−115.072
Flossie Creek	45.372	−115.207	45.389	−115.295
Fly Creek	44.670	−114.551	44.705	−114.497
Forty-Five Creek	44.665	−115.309	44.718	−115.233
Fourmile Creek	44.798	−115.622	44.857	−115.696
Fourth of July Creek	45.427	−113.774	45.364	−113.944
Fourth of July Creek	44.986	−114.347	44.991	−114.414
Fourth of July Creek	44.044	−114.621	44.032	−114.837
French Creek	45.370	−116.042	45.425	−116.031
Fritser Creek	45.091	−115.627	45.103	−115.684
Furnace Creek	44.789	−114.344	44.766	−114.487
Game Creek	45.404	−115.275	45.398	−115.193
Garden Creek	45.314	−114.404	45.239	−114.517
Germania Creek	43.968	−114.704	44.039	−114.462
Goat Creek	44.179	−115.009	44.219	−114.942
Goodman Creek	45.636	−114.965	45.647	−115.017
Granite Fork Lake Fork Rapid River	45.151	−116.553	45.187	−116.518
Green Creek	45.739	−115.023	45.771	−115.033
Greyhound Creek	44.588	−115.155	44.648	−115.168
Grimmet Creek	45.156	−115.800	45.184	−115.782
Grouse Creek	45.226	−115.545	45.186	−115.482
Grouse Creek	45.317	−115.817	45.265	−115.831
Guard Creek	45.308	−115.659	45.293	−115.696
Half Moon Creek	44.557	−115.412	44.558	−115.410
Hand Creek	45.287	−115.246	45.228	−115.301
Hanson Creek	44.869	−115.508	44.865	−115.475
Hard Creek	45.125	−116.240	45.183	−116.284
Hartan Creek	45.519	−115.258	45.477	−115.229
Hayden Creek	44.722	−113.820	44.869	−113.627

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Hazard Creek	45.201	−116.255	45.184	−116.301
Hell Roaring Creek	44.023	−114.842	44.027	−114.929
Hell Roaring Lake	44.024	−114.935		
Herd Creek	44.058	−114.234	44.154	−114.301
Hida Creek	45.556	−115.167	45.515	−115.204
Holdover Creek	44.845	−115.698	44.840	−115.726
Honeymoon Creek	44.553	−115.414	44.560	−115.411
Hoodoo Creek	45.060	−114.553	44.953	−114.582
Horse Creek	45.475	−114.402	45.395	−114.733
Hot Springs Creek	45.729	−115.032	45.721	−114.977
Hot Springs Creek	45.511	−115.042	45.468	−115.131
Hotzel Creek	45.373	−115.188	45.349	−115.204
Hughes Creek	45.582	−114.121	45.476	−113.989
Hull Creek	45.468	−113.993	45.491	−114.094
Hungry Creek	45.392	−114.916	45.352	−114.870
Ibex Creek	43.908	−114.493	43.953	−114.526
Indian Creek	45.552	−114.145	45.400	−114.168
Indian Creek	44.799	−115.390	44.770	−115.090
Indian Creek	44.970	−115.732	44.958	−115.691
Indian Creek-Loon	44.672	−114.840	44.692	−114.755
Inyo Creek	44.532	−113.628	44.535	−113.684
Iron Creek	44.189	−115.047	44.223	−114.948
J Fell Creek	44.614	−114.462	44.684	−114.459
Jack Creek	44.678	−114.836	44.696	−114.761
Jeanette Creek	45.276	−115.919	45.294	−115.899
Jefferson Creek	45.220	−114.120	45.242	−114.149
Job Creek	44.243	−115.003	44.243	−115.002
John Day Creek	45.521	−116.196	45.586	−116.296
Johnson Creek	44.632	−115.526	44.962	−115.502
Jordan Creek	44.469	−114.771	44.379	−114.721
Josephine Creek	45.225	−115.971	45.224	−115.930
Jungle Creek	45.147	−115.799	45.108	−115.826
Kadletz Creek	44.740	−113.820	44.775	−113.743
Kenney Creek	45.110	−113.514	45.032	−113.663
Kinnikinic Creek	44.258	−114.402	44.260	−114.403
Knapp Creek	44.424	−114.916	44.365	−115.132
Knee Creek	44.676	−115.662	44.695	−115.624
Krassel Creek	44.979	−115.727	44.987	−115.704
Lake Creek	44.985	−114.081	45.017	−113.989
Lake Creek	44.981	−114.646	44.947	−114.592
Lake Creek	44.720	−115.142	44.714	−115.097
Lake Creek	44.643	−115.181	44.662	−115.231
Lake Creek	45.616	−115.687	45.514	−115.575
Lake Creek	45.374	−115.899	45.372	−115.895
Lake Creek	45.294	−116.220	45.400	−116.213
Lake Creek Lake	45.373	−115.897		
Lake Fork Rapid River	45.190	−116.558	45.187	−116.483
Landmark Creek	44.657	−115.543	44.626	−115.583
Lee Creek	44.740	−113.482	44.659	−113.616
Lemhi River	44.682	−113.355	45.188	−113.890
Liberty Creek	44.783	−114.618	44.759	−114.650
Lick Creek	44.775	−114.348	44.722	−114.272
Lick Creek	45.049	−115.915	45.062	−115.762
Lightning Creek	44.466	−114.788	44.388	−114.796
Little Beaver Creek	44.445	−115.528	44.409	−115.492
Little Boulder Creek	44.065	−114.543	44.099	−114.443
Little Buck Creek	45.252	−115.551	45.247	−115.588
Little Cottonwood Creek	44.942	−115.020	44.907	−115.074
Little Creek	44.695	−114.981	44.724	−114.998
Little Deep Creek	45.001	−114.163	45.108	−114.180
Little East Fork Elk Creek	44.480	−115.398	44.464	−115.446
Little Eightmile Creek	44.823	−113.366	44.739	−113.460
Little Horse Creek	45.440	−114.585	45.477	−114.450
Little Indian Creek	44.871	−115.219	44.841	−115.257
Little Indian Creek	44.967	−115.727	44.951	−115.702
Little Jacket Creek	44.926	−114.479	44.953	−114.566
Little Lodgepole Creek	45.351	−115.155	45.328	−115.218
Little Loon Creek	44.615	−114.964	44.731	−114.941
Little Mallard Creek	45.530	−115.306	45.529	−115.304
Little Pistol Creek	44.721	−115.405	44.721	−115.204
Little Redfish Lake	44.161	−114.909		

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Little Salmon River	45.181	−116.302	45.417	−116.314
Little Slate Creek	45.620	−116.067	45.463	−116.122
Little Timber Creek	44.605	−113.445	44.642	−113.384
Livingston Creek	44.144	−114.609	44.194	−114.604
Lodgepole Creek	44.554	−114.475	44.540	−114.409
Lodgepole Creek	45.372	−115.126	45.305	−115.255
Lodgepole Creek	44.576	−115.611	44.593	−115.687
Logan Creek	45.072	−115.456	45.118	−115.320
Lola Creek	44.391	−115.240	44.408	−115.175
Long Tom Creek	43.978	−114.402	44.027	−114.430
Loon Creek	44.444	−114.941	44.553	−114.850
Loon Creek	45.167	−115.837	45.170	−115.809
Loon Lake	45.163	−115.840		
Lucky Creek	44.625	−115.277	44.664	−115.299
Luger Creek	44.618	−115.396	44.686	−115.358
Magpie Creek	45.548	−115.153	45.506	−115.201
Mahogany Creek	44.159	−113.768	44.208	−113.702
Marble Creek	44.983	−115.080	44.743	−115.017
Marsh Creek	44.329	−115.092	44.449	−115.231
Martin Creek	44.426	−114.564	44.387	−114.495
Martin Creek	44.117	−114.798	44.137	−114.725
Martindale Creek	44.813	−114.545	44.825	−114.577
Mayfield Creek	44.552	−114.850	44.539	−114.798
Mayflower Creek	45.259	−115.602	45.248	−115.654
McCalla Creek	45.255	−115.128	45.414	−114.982
McConn Creek	45.527	−114.243	45.504	−114.153
McHoney Creek	44.638	−114.610	44.670	−114.555
McKay Creek	44.475	−114.492	44.489	−114.551
McKee Creek	44.567	−114.672	44.577	−114.649
Meadow Creek	44.990	−114.487	44.977	−114.471
Meadow Creek	44.863	−115.373	44.902	−115.328
Meadow Creek - mouth to Trap	44.316	−115.089	44.306	−115.053
Meridian Creek	43.988	−114.257	44.011	−114.252
Middle Fork Elkhorn Creek	44.628	−115.369	44.620	−115.291
Middle Fork Indian Creek	44.856	−115.104	44.796	−115.133
Middle Fork Salmon River	44.449	−115.231	45.296	−114.594
Middle Fork Smith Creek	45.157	−115.413	45.170	−115.381
Mill Creek	44.656	−113.657	44.766	−113.519
Mill Creek	44.470	−114.492	44.561	−114.275
Mill Creek	45.356	−115.520	45.331	−115.581
Mink Creek	44.865	−114.298	44.842	−114.331
Missouri Creek	45.028	−115.352	45.007	−115.395
Moccasin Creek	45.088	−114.090	45.153	−114.172
Monumental Creek	44.903	−115.263	45.160	−115.130
Moose Creek	45.691	−113.945	45.654	−113.971
Moose Creek	45.318	−114.039	45.328	−114.042
Moose Creek	45.283	−115.293	45.356	−115.250
Moose Creek	44.853	−115.510	44.838	−115.484
Moose Jaw Creek	45.312	−115.118	45.278	−115.172
Morgan Creek	44.675	−113.900	44.618	−113.964
Morgan Creek	44.846	−114.262	44.612	−114.169
Mormon Creek	44.499	−115.655	44.524	−115.696
Morse Creek	44.653	−113.709	44.569	−113.886
Moyer Creek	45.024	−114.312	44.900	−114.223
Musgrove Creek	45.096	−114.471	45.022	−114.313
My Creek	45.357	−115.004	45.338	−114.982
Mystery Creek	44.519	−114.775	44.490	−114.793
Napias Creek	45.244	−114.024	45.137	−114.218
Nasty Creek	44.877	−115.697	44.879	−115.630
Nelson Creek	44.499	−114.805	44.540	−114.804
Nethker Creek	45.249	−115.972	45.265	−115.906
Nick Creek	44.927	−115.795	44.926	−115.855
Ninemile Creek	44.414	−114.583	44.445	−114.605
No Name Creek	45.361	−115.225	45.322	−115.234
North Fork Bear Creek	44.826	−115.483	44.824	−115.437
North Fork Big Creek	44.552	−113.593	44.442	−113.601
North Fork Bowery Creek	44.049	−114.366	44.032	−114.401
North Fork Buckhorn Creek	44.928	−115.775	44.941	−115.868
North Fork Camp Creek	44.888	−115.691	44.924	−115.629
North Fork Dollar Creek	44.715	−115.707	44.718	−115.710
North Fork Elk Creek	44.527	−115.459	44.485	−115.453

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
North Fork Elkhorn Creek	44.638	−115.363	44.625	−115.277
North Fork Fitsum Creek	44.985	−115.884	44.999	−115.760
North Fork Lick Creek	45.072	−115.784	45.075	−115.885
North Fork Little Timber Creek	44.605	−113.445	44.583	−113.513
North Fork Morgan Creek	44.710	−113.830	44.675	−113.900
North Fork Riordan Creek	44.867	−115.447	44.862	−115.389
North Fork Salmon River	45.702	−113.990	45.405	−113.994
North Fork Sand Creek	44.642	−115.497	44.656	−115.451
North Fork Sheep Creek	45.483	−113.774	45.482	−113.837
North Fork Sheep Creek	44.648	−114.964	44.649	−115.018
North Fork Sheep Creek	45.039	−115.584	45.059	−115.557
North Fork Six-bit Creek	44.670	−115.763	44.711	−115.782
North Fork Smith Creek	45.188	−115.346	45.197	−115.352
North Fork Sulphur Creek	44.597	−115.466	44.554	−115.440
North Fork Wolf Fang Creek	45.216	−115.444	45.212	−115.393
Norton Creek	44.890	−114.902	44.827	−114.794
Oompaul Creek	45.034	−115.736	45.054	−115.717
Opal Creek	44.898	−114.278	44.896	−114.315
Opal Lake	44.899	−114.281		
Otter Creek	44.869	−114.249	44.860	−114.291
Our Creek	45.364	−115.000	45.354	−114.976
Owl Creek	45.474	−114.383	45.318	−114.448
Pahsimeroi River	44.157	−113.704	44.692	−114.049
Panther Creek	44.829	−114.295	45.316	−114.406
Papoose Creek	45.174	−114.721	45.273	−114.821
Papoose Creek	44.796	−115.278	44.837	−115.246
Paradise Creek	45.121	−115.765	45.123	−115.727
Park Creek	44.734	−115.551	44.724	−115.593
Parker Creek	44.622	−114.597	44.608	−114.540
Parks Creek	44.955	−115.536	44.970	−115.531
Partridge Creek	45.287	−116.218	45.408	−116.127
Patterson Creek	44.635	−113.653	44.614	−113.966
Peanut Creek	44.688	−115.486	44.663	−115.454
Pepper Creek	44.949	−115.351	44.916	−115.384
Perkins Lake	43.929	−114.841		
Pete Creek	45.298	−115.926	45.285	−115.979
Petit Lake	43.980	−114.879		
Pettit Lake Creek	43.976	−114.902	43.988	−114.841
Phelan Creek	45.146	−114.042	45.167	−114.161
Pierce Creek	45.670	−113.933	45.621	−113.964
Pigtail Creek	44.122	−114.736	44.129	−114.727
Pine Creek	45.282	−114.168	45.364	−114.300
Pioneer Creek - Loon	44.521	−114.865	44.441	−114.895
Pistol Creek	44.644	−115.443	44.724	−115.150
Poet Creek	45.722	−115.034	45.754	−115.073
Poker Creek	44.445	−115.367	44.429	−115.335
Pole Creek	43.964	−114.691	43.926	−114.810
Pole Creek	45.335	−115.160	45.308	−115.182
Pole Creek	44.361	−115.367	44.386	−115.380
Pole Creek-Camas	44.763	−114.675	44.794	−114.595
Pony Creek	45.194	−114.138	45.187	−114.059
Pony Creek	45.179	−115.704	45.187	−115.563
Porcupine Creek	44.890	−115.499	44.902	−115.538
Porphyry Creek	45.069	−114.434	45.004	−114.334
Porter Creek	44.470	−115.540	44.457	−115.451
Profile Creek	45.053	−115.417	44.957	−115.429
Prospect Creek	44.357	−114.985	44.394	−114.986
Pruvan Creek	45.498	−113.821	45.467	−113.790
Pup Creek	45.378	−115.147	45.413	−115.139
Quartz Creek	45.048	−115.497	44.970	−115.478
Queen Creek	45.400	−115.049	45.458	−115.110
Raines Creek	45.332	−115.501	45.308	−115.591
Rams Creek	44.861	−114.453	44.871	−114.456
Ranch Creek	45.374	−115.186	45.404	−115.234
Rapid River	44.551	−115.008	44.680	−115.153
Rapid River	45.114	−116.507	45.374	−116.356
Rapps Creek	45.268	−114.172	45.213	−114.164
Rat Creek	44.566	−114.785	44.588	−114.826
Rattlesnake Creek	45.249	−115.518	45.221	−115.492
Raven Creek	45.550	−115.161	45.517	−115.195
Red Top Creek	45.362	−115.266	45.384	−115.292

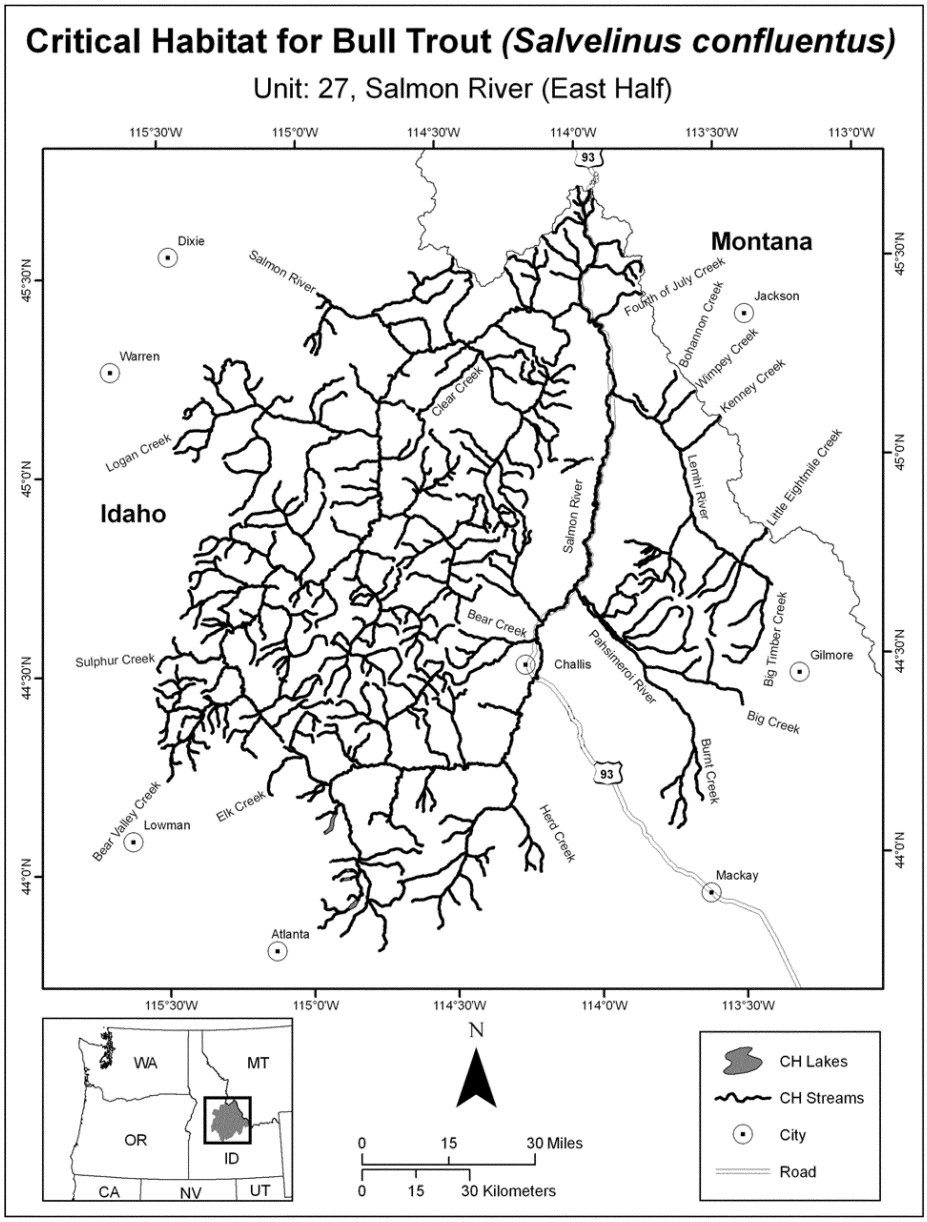
Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Redfish Lake	44.117	−114.932		
Redfish Lake Creek	44.099	−114.954	44.169	−114.899
Reeves Creek	44.686	−115.619	44.667	−115.667
Rhett Creek	45.476	−115.408	45.472	−115.394
Rice Creek	44.510	−115.645	44.575	−115.686
Richardson Creek	45.539	−115.261	45.474	−115.240
Rim Creek	45.281	−115.383	45.336	−115.330
Riordan Creek	44.808	−115.392	44.907	−115.486
Riordan Lake	44.850	−115.439		
Roaring Creek	45.259	−114.646	45.241	−114.615
Rock Creek	44.639	−115.543	44.600	−115.593
Rock Creek-Loon	44.754	−114.671	44.674	−114.741
Rocky Creek	44.521	−113.434	44.535	−113.505
Rooster Creek	45.309	−115.490	45.328	−115.437
Root Creek	45.382	−114.993	45.362	−114.964
Royal Creek	45.525	−116.098	45.525	−116.134
Rubie Creek	45.546	−116.079	45.543	−116.026
Ruby Creek	45.190	−115.915	45.258	−115.879
Rush Creek	44.536	−114.652	44.578	−114.614
Rush Creek	44.933	−114.991	45.105	−114.861
Ryan Creek	45.019	−115.395	45.033	−115.380
Sabe Creek	45.681	−114.949	45.507	−115.025
Sack Creek	44.320	−115.352	44.359	−115.408
Salmon River	43.797	−114.775	45.856	−116.795
Salt Creek	44.984	−114.297	44.979	−114.223
Salt Creek	44.973	−115.325	44.949	−115.353
Sand Creek	44.632	−115.526	44.609	−115.414
Sand Creek	45.327	−115.863	45.307	−115.821
Schissler Creek	45.320	−115.780	45.328	−115.708
Seafoam Creek	44.518	−115.119	44.542	−115.065
Secesh River	45.256	−115.897	45.025	−115.707
Sharkey Creek	45.222	−114.109	45.212	−114.048
Sheep Creek	45.482	−113.837	45.504	−113.954
Sheep Creek	44.770	−114.483	44.769	−114.516
Sheep Creek	44.649	−115.018	44.647	−115.058
Sheep Creek	44.708	−115.561	44.698	−115.613
Sheep Creek	45.049	−115.637	45.049	−115.515
Sheep Creek	45.614	−115.697	45.468	−115.811
Sheep Creek-Lmf	44.915	−114.904	44.943	−114.727
Sheep Trail Creek	44.360	−115.452	44.337	−115.448
Shell Creek	44.632	−114.834	44.613	−114.789
Ship Island Creek	45.152	−114.603	45.174	−114.633
Ship Island Lake #1	45.166	−114.625		
Shoban Lake	45.153	−114.602		
Short Creek	44.773	−113.797	44.788	−113.768
Short Creek	44.313	−114.856	44.291	−114.872
Shovel Creek	45.034	−114.444	45.000	−114.479
Silge Creek	45.545	−115.248	45.517	−115.225
Silver Creek	44.852	−114.344	44.830	−114.502
Silver Rule Creek	44.146	−114.582	44.207	−114.597
Six-Bit Creek	44.645	−115.809	44.686	−115.707
Sixmile Creek	44.385	−114.596	44.413	−114.638
Slate Creek	44.154	−114.630	44.256	−114.564
Slate Creek	45.625	−116.055	45.626	−116.046
Slaughter Creek	45.297	−115.610	45.261	−115.673
Smith Creek	45.170	−115.381	45.152	−115.298
Smith Creek	45.241	−115.528	45.280	−115.583
Snowslide Creek	45.045	−115.282	45.098	−115.157
Soldier Creek	45.007	−114.882	45.029	−114.727
Soldier Creek	44.528	−115.202	44.626	−115.213
South Fork Bear Creek	44.826	−115.483	44.817	−115.458
South Fork Big Creek	44.385	−113.476	44.442	−113.601
South Fork Blackmare Creek	44.770	−115.804	44.809	−115.748
South Fork Buckhorn Creek	44.840	−115.824	44.890	−115.824
South Fork Camas Creek	44.730	−114.641	44.721	−114.499
South Fork Chamberlain Creek	45.336	−115.330	45.278	−115.353
South Fork Cottonwood Creek	44.563	−114.781	44.621	−114.760
South Fork Dillinger Creek	45.495	−115.156	45.455	−115.169
South Fork East Fork Salmon River	43.848	−114.567	43.929	−114.555
South Fork Elk Creek	45.136	−115.509	45.079	−115.467
South Fork Fitsum Creek	45.000	−115.763	44.970	−115.775

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
South Fork Fourmile Creek	44.860	−115.680	44.814	−115.665
South Fork John Day Creek	45.571	−116.229	45.555	−116.226
South Fork Moyer Creek	44.958	−114.294	44.879	−114.227
South Fork Rush Creek	44.965	−114.929	45.014	−114.979
South Fork Salmon River	44.493	−115.714	45.378	−115.513
South Fork Sheep Creek	45.449	−113.801	45.482	−113.837
South Fork Sheep Creek	44.603	−115.007	44.649	−115.018
South Fork Sheep Creek	45.036	−115.623	44.984	−115.604
South Fork Smith Creek	45.149	−115.420	45.170	−115.381
South Fork Threemile Creek	45.307	−115.929	45.315	−115.886
South Fork Warm Spring Creek	44.568	−114.543	44.578	−114.552
South Fork Whimstick Creek	45.284	−115.031	45.243	−115.045
Spider Creek	44.697	−114.484	44.676	−114.512
Springfield Creek	44.789	−115.298	44.764	−115.313
Squaw Creek	45.504	−114.258	45.399	−114.169
Squaw Creek	44.249	−114.455	44.456	−114.504
Starvation Creek	45.358	−114.934	45.323	−114.980
Station Creek	45.352	−115.521	45.355	−115.473
Stoddard Creek	45.235	−114.668	45.243	−114.687
Sugar Creek	44.936	−115.337	44.975	−115.246
Sulphur Creek	44.510	−115.519	44.555	−115.298
Sulphur Creek-Rapid	44.562	−115.162	44.586	−115.073
Summit Creek	45.172	−115.916	45.256	−115.897
Sunday Creek	44.341	−114.970	44.349	−114.906
Tamarack Creek	44.984	−115.270	44.959	−115.390
Tater Creek	44.661	−113.840	44.632	−113.903
Tenmile Creek	44.484	−114.647	44.465	−114.582
Thirty-Eight Creek	44.713	−115.413	44.673	−115.396
Thomas Creek	44.705	−115.028	44.715	−115.012
Thompson Creek	44.284	−114.523	44.284	−114.523
Threemile Creek	45.334	−115.891	45.299	−115.930
Tie Creek	45.017	−115.770	45.037	−115.762
Trail Creek	45.215	−114.234	45.250	−114.320
Trail Creek	44.976	−114.532	44.964	−114.490
Trail Creek	44.628	−115.791	44.635	−115.718
Trail Creek-Loon	44.506	−114.960	44.543	−114.859
Trail Creek-Marble	44.952	−114.935	44.841	−115.009
Trapper Creek	44.504	−114.618	44.597	−114.603
Trapper Creek	44.774	−115.405	44.831	−115.514
Tumbull Creek	45.523	−116.093	45.533	−116.136
Twelvemile Creek	44.497	−114.615	44.478	−114.565
Twin Creek	45.591	−114.082	45.608	−113.965
Twist Creek	45.633	−114.961	45.628	−114.926
Tyndall Creek	44.562	−115.749	44.580	−115.685
Unnamed	44.618	−113.964	44.670	−114.018
Unnamed	44.670	−114.018	44.667	−114.025
Unnamed	44.632	−113.903	44.618	−113.964
Unnamed	44.565	−113.881	44.562	−113.877
Unnamed	44.565	−113.881	44.569	−113.886
Unnamed - didgitized	44.766	−113.519	44.769	−113.515
Unnamed - digitized	44.562	−113.877	44.557	−113.881
Unnamed - digitized	44.565	−113.879	44.565	−113.881
Unnamed - digitized	44.667	−114.025	44.665	−114.030
Unnamed - Diversion between Geertson Creek and Kirtley Creek	45.175	−113.816	45.132	−113.770
Unnamed - North Fork Lake Creek	45.015	−114.068	45.009	−114.017
Unnamed - North Fork Mayflower Creek	45.245	−115.647	45.254	−115.635
Unnamed - Off Buck Creek	44.767	−115.485	44.761	−115.477
Unnamed - Off Burntlog Creek	44.686	−115.468	44.680	−115.455
Unnamed - Off Corral Creek	44.840	−114.199	44.804	−114.225
Unnamed - Off Deep Creek	45.080	−114.092	45.064	−114.122
Unnamed - Off Mckay Creek	44.445	−114.526	44.477	−114.526
Unnamed - Off Mormon Creek	44.509	−115.676	44.498	−115.674
Unnamed - Off Rice Creek	44.561	−115.644	44.551	−115.656
Unnamed - Off South Fork Salmon River	44.556	−115.683	44.552	−115.707
Unnamed - Off Trail Creek	44.599	−115.803	44.626	−115.746
Unnamed - Off Unnamed to Buck Creek	44.767	−115.484	44.769	−115.479
Unnamed - Off Unnamed to Burntlog Creek	44.730	−115.482	44.720	−115.463
Unnamed - to Knapp Creek	44.421	−115.036	44.433	−115.004
Unnamed 1 - Off Curtis Creek	44.586	−115.804	44.609	−115.746
Unnamed 2 - Off Curtis Creek	44.568	−115.794	44.594	−115.753
Unnamed Lake on Meadow Creek	44.890	−115.351		

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Unnamed to Bearskin Creek	44.374	−115.500	44.358	−115.523
Unnamed Trib 1-Off Trapper Creek	44.794	−115.462	44.800	−115.452
Unnamed Trib 2-Off Trapper Creek	44.795	−115.441	44.781	−115.427
Unnamed Trib 3- Off Trapper Creek	44.772	−115.434	44.793	−115.465
Unnamed Tributary to Pete Creek	45.281	−115.955	45.272	−115.967
Unnamed Tributary to Threemile Creek	45.323	−115.912	45.317	−115.894
Unnamed Tributary to West Fork Elk Creek	45.069	−115.483	45.095	−115.514
Valley Creek	44.377	−114.961	44.225	−114.928
Van Buren Creek	45.536	−116.169	45.532	−116.083
Van Horn Creek	44.785	−114.338	44.757	−114.257
Vanity Creek	44.481	−115.077	44.553	−115.062
Vein Creek	45.008	−115.472	45.056	−115.455
Victor Creek	45.147	−115.937	45.182	−115.822
Victor Creek	45.510	−116.101	45.515	−116.127
Vine Creek	45.638	−114.001	45.611	−113.967
Wapiti Creek	45.335	−115.022	45.309	−115.074
Wardenhoff Creek	44.822	−115.518	44.832	−115.568
Warm Lake	44.645	−115.670		
Warm Lake Creek	44.653	−115.662	44.666	−115.699
Warm Spring Creek	44.609	−114.482	44.653	−114.737
Warm Springs Creek	44.059	−114.614	44.254	−114.676
Warren Creek	45.237	−115.676	45.397	−115.593
Weasel Creek	44.888	−114.273	44.887	−114.306
Webfoot Creek	45.217	−115.696	45.237	−115.676
West Fork Buckhorn Creek	44.917	−115.743	44.900	−115.858
West Fork Camas Creek	44.819	−114.655	44.831	−114.504
West Fork Chamberlain Creek	45.463	−115.185	45.383	−115.167
West Fork East Fork Salmon River	43.918	−114.656	43.929	−114.555
West Fork Elk Creek	44.480	−115.521	44.479	−115.458
West Fork Elk Creek	45.061	−115.520	45.147	−115.512
West Fork Enos Creek	45.148	−115.804	45.143	−115.837
West Fork Hayden Creek	44.697	−113.823	44.705	−113.757
West Fork Herd Creek	43.990	−114.225	44.058	−114.234
West Fork Indian Creek	45.489	−114.199	45.475	−114.139
West Fork Little Loon Creek	44.666	−114.977	44.710	−114.935
West Fork Mayfield Creek	44.539	−114.798	44.465	−114.732
West Fork Monumental Creek	45.034	−115.276	45.005	−115.140
West Fork Morgan Creek	44.734	−114.394	44.681	−114.244
West Fork North Fork Salmon River	45.667	−114.003	45.654	−113.971
West Fork Pahsimeroi River	44.092	−113.750	44.157	−113.704
West Fork Rapid River	45.230	−116.538	45.307	−116.420
West Fork Springfield Creek	44.780	−115.383	44.786	−115.321
West Fork Thomas Creek	44.682	−115.055	44.705	−115.028
West Fork Whimstick Creek	45.294	−115.031	45.291	−115.037
West Fork Yankee Fork	44.388	−114.933	44.351	−114.727
West Pass Creek	43.893	−114.419	43.988	−114.491
Whangdoodle Creek	45.150	−115.797	45.181	−115.738
Whimstick Creek	45.241	−115.054	45.378	−115.000
White Goat Creek	44.726	−114.416	44.741	−114.489
Wickiup Creek-Loon	44.598	−114.659	44.606	−114.597
Willey Creek	45.043	−115.628	45.061	−115.604
Williams Lake	45.016	−113.976		
Willow Basket Creek	45.192	−115.895	45.186	−115.832
Willow Creek	44.447	−114.446	44.428	−114.490
Willow Creek	45.356	−115.858	45.331	−115.950
Wilson Creek	45.143	−114.589	45.033	−114.724
Wimpey Creek	45.098	−113.721	45.176	−113.598
Wind River	45.605	−115.918	45.455	−115.942
Winnemucca Creek	44.485	−114.963	44.436	−115.059
Woods Creek	45.535	−114.443	45.505	−114.460
Woodtick Creek	44.973	−114.192	45.046	−114.283
Woodtick Creek	44.808	−114.680	44.884	−114.626
Wright Creek	44.746	−113.836	44.783	−113.755
Wyoming Creek	44.355	−115.342	44.425	−115.321
Yankee Fork	44.510	−114.589	44.270	−114.735
Yellow Jacket Creek	45.145	−116.445	45.137	−116.413
Yellowbelly Creek	43.981	−114.928	44.000	−114.869
Yellowbelly Lake	44.001	−114.876		
Yellowjacket Creek	45.103	−114.536	44.892	−114.645
Zena Creek	45.041	−115.748	45.057	−115.732

(iii) No waterbodies are excluded from critical habitat designation in this unit.

(iv) Map of Unit 27, Salmon River – East Half follows:



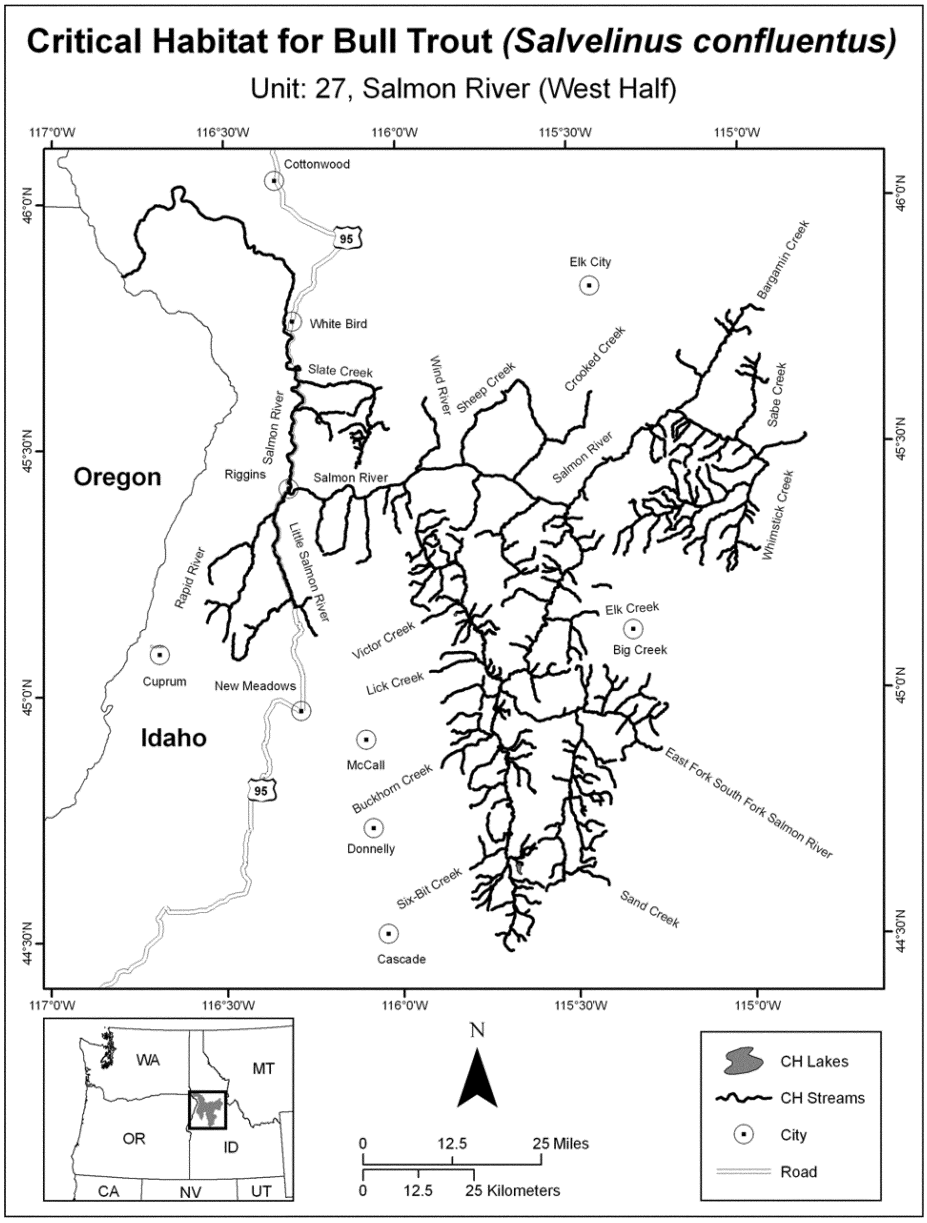
(36) Unit 27: Salmon River – West Half

(i) The entire Salmon River unit consists of 7,376.5 km (4,583.5 mi) of streams and 1,683.8 ha (4,160.6 ac) of lakes and reservoirs. The unit is located in central Idaho.

(ii) See paragraph (e)(35)(ii) of this entry for a complete list of individual waterbodies in this unit.

(iii) No waterbodies are excluded from critical habitat designation in this unit.

(iv) Map of Unit 27, Salmon River – West Half follows:



(37) Unit 28: Little Lost River

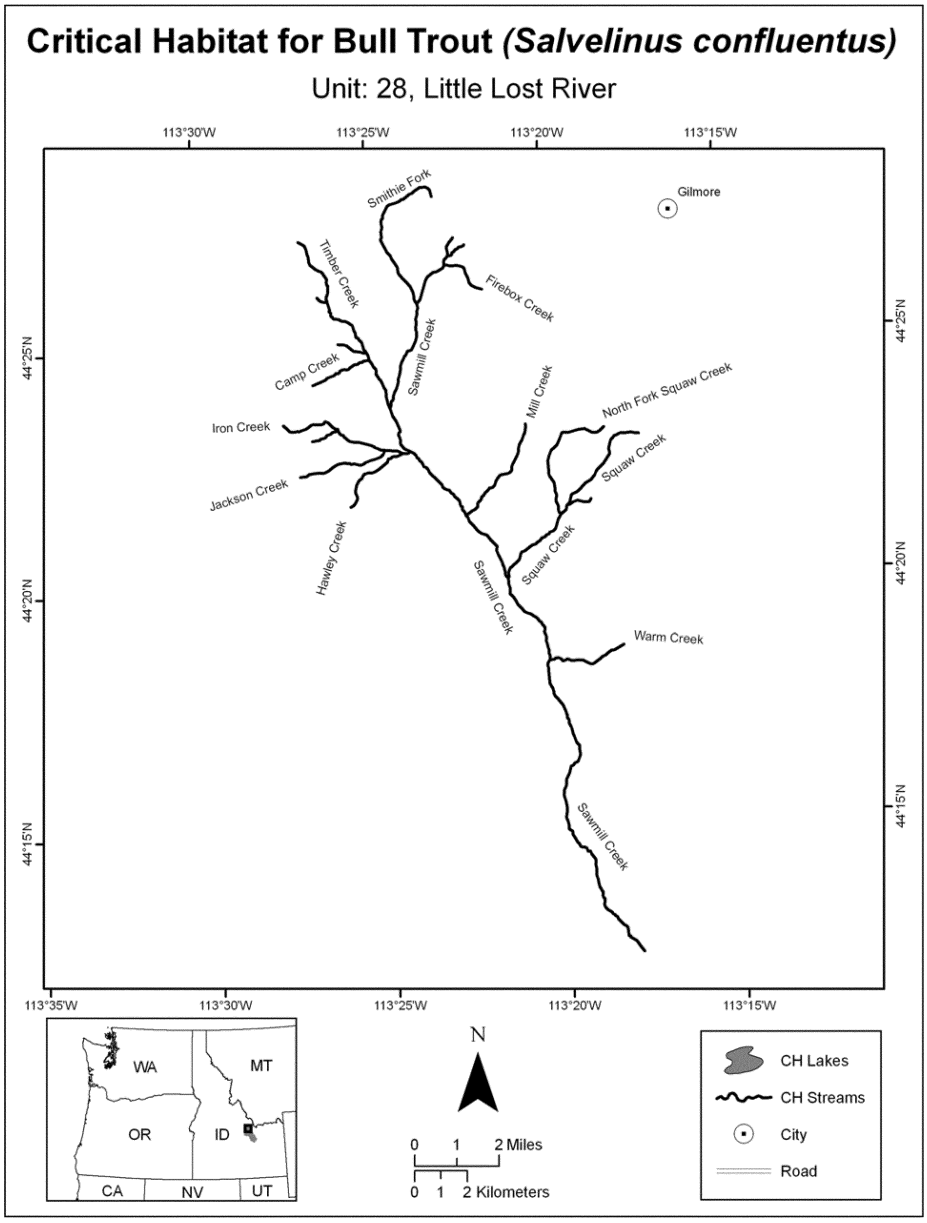
(i) This unit consists of 89.2 km (55.4 mi) of streams. The unit is located in eastern Idaho.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Camp Creek	44.408	−113.433	44.411	−113.418
Firebox Creek	44.434	−113.363	44.443	−113.380
Hawley Creek	44.361	−113.430	44.379	−113.404
Iron Creek	44.387	−113.435	44.390	−113.461
Iron Creek	44.389	−113.437	44.387	−113.435
Jackson Creek	44.372	−113.454	44.380	−113.413
Left Fork Iron Creek	44.384	−113.447	44.387	−113.435
Mill Creek	44.387	−113.345	44.357	−113.375
North Fork Squaw Creek	44.379	−113.330	44.356	−113.330
Redrock Creek	44.417	−113.433	44.414	−113.419
Right Fork Little Lost River	44.449	−113.370	44.446	−113.378
Sawmill Creek	44.452	−113.376	44.204	−113.299
Slide Creek	44.433	−113.442	44.432	−113.437
Smithie Fork	44.430	−113.394	44.467	−113.385
Squaw Creek	44.375	−113.306	44.375	−113.306
Timber Creek	44.394	−113.409	44.453	−113.450
Unnamed - Off Squaw Creek	44.360	−113.315	44.359	−113.326
Warm Creek	44.310	−113.302	44.306	−113.338

(iii) No waterbodies are excluded from critical habitat designation in this unit.

(iv) Map of Unit 28, Little Lost River follows:



(38) Unit 29: Coeur d'Alene River Basin

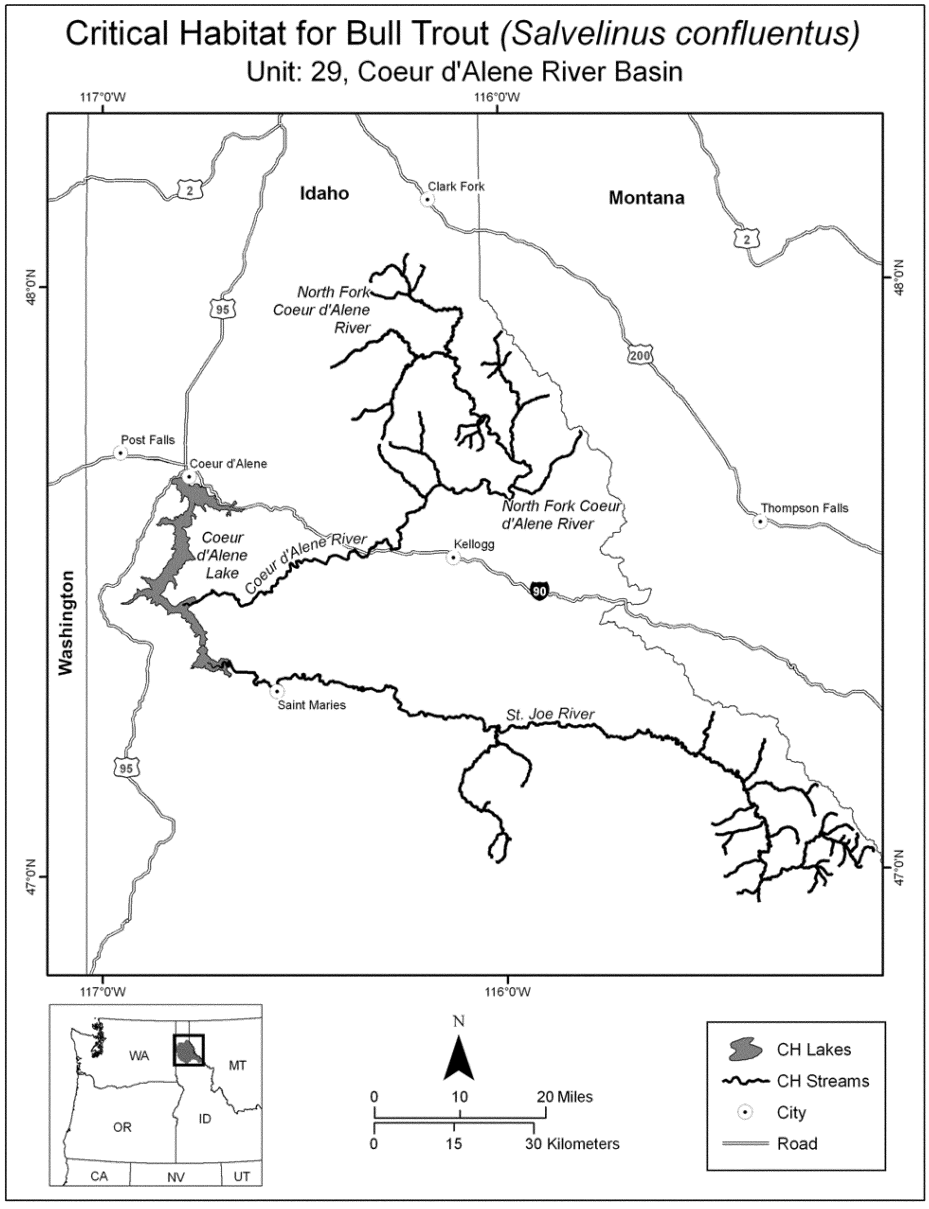
(i) This unit consists of 821.5 km (510.5 mi) of streams and 12,606.9 ha (31,152.1 ac) of lakes and reservoirs. The unit is located in northern Idaho.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Bad Bear Creek	47.045	−115.460	47.045	−115.460
Bean Creek	47.005	−115.271	46.993	−115.193
Beaver Creek	47.083	−115.356	47.064	−115.481
Big Elk Creek	47.804	−116.276	47.775	−116.374
Bluebells Creek	47.041	−115.157	47.050	−115.149
Boulder Creek	47.227	−116.020	47.149	−115.963
Buckskin Creek	47.987	−116.226	48.034	−116.200
California Creek	47.041	−115.160	47.004	−115.178
Cascade Creek (St. Joe trib)	47.044	−115.171	47.057	−115.162
Coeur d'Alene Lake	47.525	−116.794		
Coeur d'Alene River	47.460	−116.799	47.557	−116.258
Cougar Creek	47.640	−116.192	47.732	−116.306
Delaney Creek	47.062	−115.998	47.059	−115.987
Dolly Creek	47.126	−115.255	47.140	−115.223
Downey Creek	47.778	−116.037	47.746	−116.075
Eagle Creek	47.644	−115.922	47.652	−115.904
East Fork Downey Creek	47.746	−116.075	47.723	−116.079
East Fork Steamboat Creek	47.716	−116.200	47.787	−116.205
Entente Creek	47.231	−115.494	47.271	−115.478
Falls Creek	47.787	−115.955	47.811	−115.878
Fly Creek	47.113	−115.386	47.081	−115.490
Freezeout Creek	47.071	−116.009	47.027	−116.036
Gold Creek	47.151	−115.409	47.224	−115.354
Heller Creek	47.061	−115.221	47.091	−115.177
Homestead Creek	47.109	−116.058	47.123	−116.038
Independence Creek	47.877	−116.209	47.862	−116.428
Little Lost Fork	47.862	−116.002	47.862	−116.046
Marble Creek	47.251	−116.022	47.021	−116.026
Medicine Creek	47.028	−115.150	47.060	−115.132
Mill Creek	46.997	−115.227	46.971	−115.214
Mosquito Creek	48.018	−116.245	48.055	−116.229
My Creek	46.971	−115.377	46.946	−115.375
North Fork Bean Creek	47.005	−115.235	47.014	−115.199
North Fork Coeur d'Alene River	47.557	−116.258	48.005	−116.322
North Grizzly Creek	47.753	−116.054	47.717	−116.061
Prichard Creek	47.658	−115.977	47.644	−115.922
Quartz Creek	47.201	−115.517	47.231	−115.494
Red Ives Creek	47.056	−115.352	47.043	−115.279
Ruby Creek	46.983	−115.368	46.961	−115.431
Sentinel Creek	47.861	−116.001	47.842	−116.032
Sherlock Creek	47.064	−115.219	47.064	−115.138
Shoshone Creek	47.703	−115.972	47.922	−115.995
Simmons Creek	47.137	−115.401	47.090	−115.232
Spruce Creek	47.982	−116.226	47.993	−116.333
St. Joe River	47.354	−116.726	47.005	−115.119
Steamboat Creek	47.662	−116.155	47.716	−116.200
Tepee Creek	47.881	−116.133	47.739	−116.300
Timber Creek	47.018	−115.369	46.991	−115.463
Tinear Creek	47.002	−115.231	46.961	−115.256
Ulm Creek	47.861	−116.001	47.886	−115.974
West Fork Downey Creek	47.746	−116.075	47.727	−116.107
West Fork Eagle Creek	47.652	−115.904	47.750	−115.804
West Fork Steamboat Creek	47.716	−116.200	47.736	−116.278
Wisdom Creek	47.009	−115.134	47.027	−115.088
Yankee Bar Creek	47.049	−115.192	47.021	−115.195
Yellow Dog Creek	47.776	−116.050	47.736	−116.114

(iii) No waterbodies are excluded from critical habitat designation in this unit.

(iv) Map of Unit 29, Coeur d'Alene River Basin follows:



(39) Unit 30: Kootenai River Basin

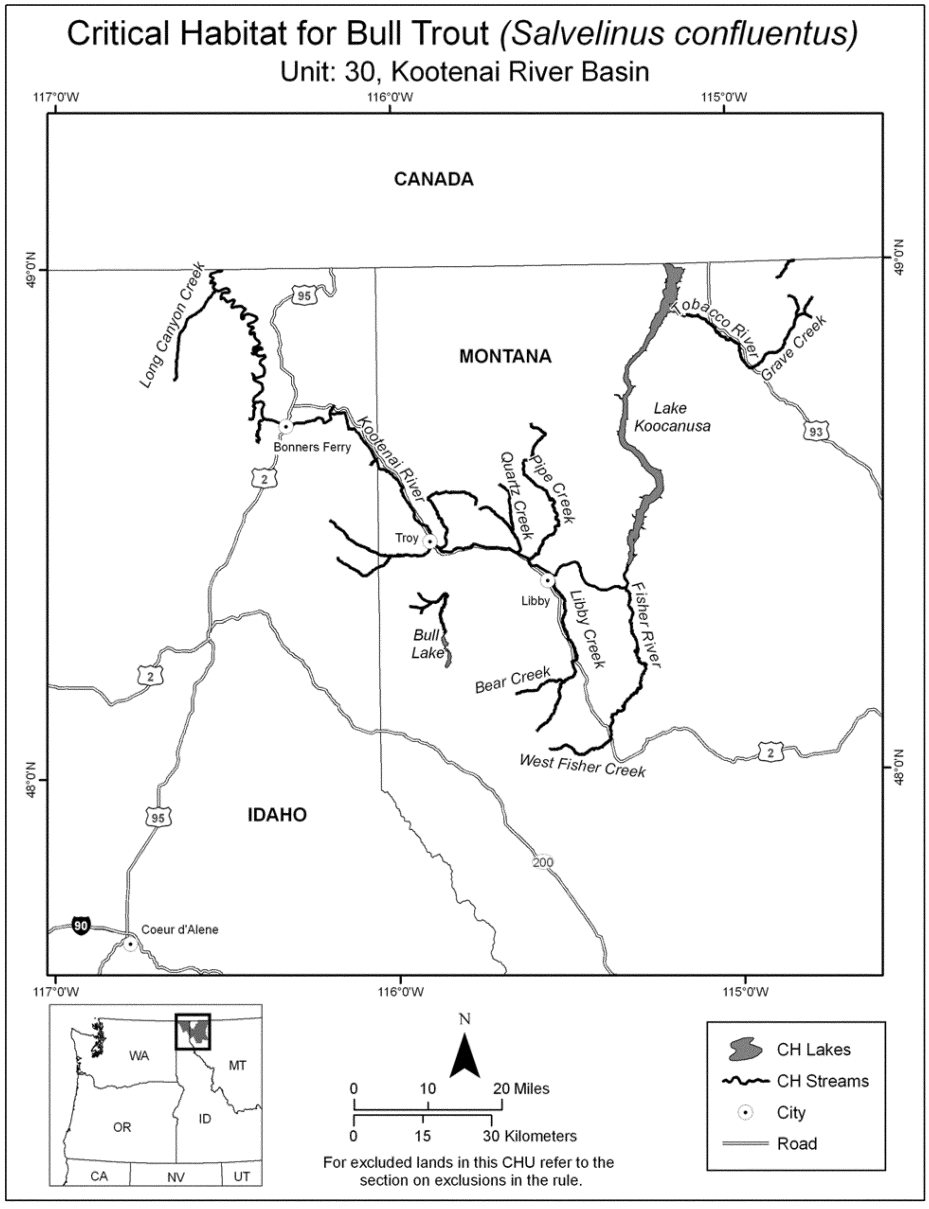
(i) This unit consists of 522.5 km (324.7 mi) of streams and 12,089.2 ha (29,873.0 ac) of lakes and reservoirs. The unit is located in northern Idaho and northwestern Montana.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Ball Creek	48.787	−116.410	48.794	−116.420
Bear Creek	48.162	−115.654	48.184	−115.508
Blue Sky Creek	48.895	−114.776	48.887	−114.752
Boulder Creek	48.625	−116.052	48.613	−116.070
Bull Lake	48.247	−115.852		
Callahan Creek	48.457	−115.882	48.435	−116.013
Caribou Creek	48.664	−116.400	48.659	−116.402
Clarence Creek	48.889	−114.799	48.930	−114.825
Deep Creek	48.708	−116.384	48.664	−116.400
East Fork Pipe Creek	48.616	−115.619	48.692	−115.594
Fisher River	48.069	−115.375	48.366	−115.324
Grave Creek	48.798	−114.953	48.927	−114.751
Keeler Creek	48.360	−115.852	48.335	−115.961
Kootenai River	48.617	−116.048	48.617	−116.048
Lake Creek	48.360	−115.852	48.282	−115.859
Lake Koocanusa	48.727	−115.244		
Libby Creek	48.121	−115.544	48.121	−115.544
Long Canyon Creek	48.961	−116.527	48.784	−116.652
Moyie River	48.715	−116.186	48.732	−116.176
Myrtle Creek	48.739	−116.412	48.707	−116.430
North Callahan Creek	48.435	−116.013	48.506	−116.192
North Fork Keeler Creek	48.342	−115.897	48.362	−115.934
O'Brien Creek	48.448	−115.867	48.531	−115.763
Pipe Creek	48.424	−115.607	48.616	−115.619
Quartz Creek	48.438	−115.639	48.573	−115.690
Snow Creek	48.664	−116.403	48.665	−116.409
South Callahan Creek	48.414	−116.049	48.435	−116.013
South Fork Keeler Creek	48.320	−115.927	48.333	−115.919
Tobacco River	48.897	−115.127	48.798	−114.953
Trout Creek	48.840	−116.411	48.835	−116.420
West Fisher Creek	48.069	−115.375	48.052	−115.555
West Fork Quartz Creek	48.479	−115.654	48.523	−115.750
Wigwam River	49.000	−114.801	48.965	−114.856

(iii) Waterbodies associated with the following habitat conservation plan (HCP) totaling 66.2 km (41.1 mi) of streams have been excluded from critical habitat designation under section 4(b)(2) of the Act in this unit. These are waterbodies within the geographic area covered by the Plum Creek Native Fish Habitat Conservation Plan (HCP), including portions of the Kootenai River and Lake Koocanusa CHSUs.

(iv) Map of Unit 30, Kootenai River Basin follows:



(40) Unit 31: Clark Fork River Basin

(i) This unit consists of 5,356.0 km (3,328.1 mi) of streams and 119,620.1 ha (295,586.6 ac) of lakes and reservoirs. The unit is located in northwestern Montana and northern Idaho.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Akokala Creek	48.881	−114.199	48.920	−114.167
Akokala Lake	48.879	−114.199		
Albert Creek	46.972	−114.311	46.972	−114.311
Alder Creek	46.442	−113.826	46.471	−113.777
Arrow Lake	48.706	−113.885		
Babcock Creek	47.366	−113.270	47.359	−113.353
Barker Creek	46.100	−113.116	46.163	−113.116
Basin Creek	47.966	−112.996	47.935	−113.075
Bear Creek	48.234	−113.567	48.296	−113.384
Beatrice Creek	47.794	−115.103	47.775	−115.153
Belmont Creek	46.954	−113.570	47.054	−113.642
Bench Creek	48.869	−117.003	48.876	−117.014
Big Creek	48.604	−114.164	48.515	−114.327
Big Salmon Creek	47.586	−113.420	47.567	−113.495
Big Salmon Lake	47.602	−113.387		
Bitterroot River	46.861	−114.118	45.944	−114.129
Blackfoot River	46.870	−113.891	47.043	−112.409
Blodgett Creek	46.304	−114.154	46.304	−114.154
Blue Joint Creek	45.695	−114.314	45.600	−114.519
Boles Creek	47.119	−113.547	47.099	−113.731
Boulder Creek	46.343	−113.077	46.478	−113.238
Boulder Creek	45.817	−114.239	45.842	−114.272
Bowl Creek	47.996	−113.058	47.966	−112.996
Bowles Creek	46.192	−113.748	46.207	−113.813
Bowman Creek	48.906	−114.118	48.974	−114.064
Bowman Lake	48.864	−114.161		
Bull River	48.024	−115.845	48.193	−115.816
Bunker Creek	47.830	−113.416	47.829	−113.582
Burnt Fork Bitterroot River	46.542	−114.100	46.304	−113.838
Butte Cabin Creek	46.482	−113.684	46.520	−113.768
Cabinet Gorge Reservoir	48.036	−115.873		
Cache Creek	46.813	−114.640	46.725	−114.759
Calispell Creek	48.321	−117.308	48.321	−117.308
Calispell Lake	48.274	−117.333		
Camas Creek	48.664	−113.935	48.737	−113.883
Caribou Creek	48.748	−116.865	48.798	−116.815
Carpp Creek	46.025	−113.428	46.032	−113.525
Cedar Creek	47.048	−115.044	47.178	−114.863
Cedar Creek	48.893	−116.916	48.880	−116.960
Cedar Creek	48.742	−117.412	48.845	−117.522
Cerulean Lake	48.872	−114.057		
Char Creek	48.291	−116.074	48.262	−116.068
Clack Creek	48.012	−113.090	47.988	−113.106
Clark Fork River	46.601	−113.037	47.961	−115.734
Clearwater Lake	47.385	−113.560		
Clearwater River	47.067	−113.391	47.395	−113.531
Clearwater River, E Fk	47.342	−113.496	47.352	−113.581
Coal Creek	48.690	−114.194	48.698	−114.540
Cold Creek	47.547	−113.920	47.584	−113.757
Cooper Gulch	47.544	−115.592	47.513	−115.648
Copper Creek	47.009	−112.558	47.060	−112.753
Copper Creek	46.068	−113.539	45.948	−113.570
Cottonwood Creek	47.025	−113.282	47.161	−113.346
Crow Creek	47.539	−115.547	47.525	−115.558
Crow Creek	47.525	−115.558	47.539	−115.547
Cyclone Creek	48.665	−114.239	48.712	−114.392
Cyclone Lake	48.705	−114.301		
Daly Creek	46.168	−113.911	46.250	−113.807
Danaher Creek	47.445	−113.183	47.275	−113.014
Dead Horse Creek	48.663	−114.279	48.659	−114.296
Deer Creek	45.595	−114.322	45.570	−114.510
Divide Creek	46.043	−113.819	46.064	−113.968
Doctor Creek	47.402	−113.485	47.407	−113.480
Doctor Lake	47.404	−113.481		
Dolly Varden Creek	48.066	−113.245	47.995	−113.185
Dry Lake Creek	47.259	−113.904	47.308	−113.894
Dunham Creek	47.103	−113.156	47.238	−113.317
East Branch LeClerc Creek	48.534	−117.283	48.673	−117.189
East Fork Bitterroot River	45.944	−114.129	45.911	−113.596
East Fork Bull River	48.109	−115.783	48.091	−115.645
East Fork Creek	48.241	−116.113	48.262	−116.040

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
East Fork Crow Creek	47.525	−115.558	47.519	−115.556
East Fork Reservoir	46.118	−113.375		
East Fork Rock Creek	46.103	−113.369	46.200	−113.500
East Fork Small Creek	48.328	−117.355	48.371	−117.399
East Fork Strawberry Creek	48.064	−113.031	48.092	−112.992
East Fork Swift Creek	48.687	−114.583	48.757	−114.585
East River	48.371	−116.820	48.353	−116.853
Elk Creek	47.544	−113.742	47.480	−113.857
Fish Creek	47.003	−114.699	46.927	−114.697
Fishtrap Creek	47.713	−115.059	47.817	−115.152
Fitzsimmons Creek	48.735	−114.734	48.751	−114.618
Flathead Lake	47.885	−114.134		
Flathead River	47.365	−114.777	48.467	−114.070
Flint Creek	46.528	−113.227	46.528	−113.227
Foster Creek	46.164	−113.120	46.284	−113.110
Fourth of July Creek	48.556	−117.273	48.557	−117.264
Fred Burr Creek	46.348	−114.152	46.357	−114.316
Frozen Creek	49.000	−114.678	48.990	−114.738
Frozen Lake	48.999	−114.681		
Gateway Creek	48.030	−113.022	48.046	−112.959
Goat Creek	47.749	−113.829	47.760	−113.657
Gold Creek	46.919	−113.677	47.058	−113.745
Gold Creek	46.398	−113.904	46.363	−113.931
Gold Creek	47.971	−116.455	47.953	−116.452
Gold Creek	48.811	−117.032	48.821	−116.974
Gordon Creek	47.423	−113.439	47.434	−113.474
Granite Creek	48.145	−113.377	48.227	−113.333
Granite Creek	48.087	−116.428	48.060	−116.330
Granite Creek	48.639	−116.864	48.700	−117.030
Grant Creek	46.868	−114.104	47.036	−113.955
Graves Creek	47.682	−115.410	47.718	−115.381
Grouse Creek	48.403	−116.478	48.483	−116.229
Hallowat Creek	48.574	−114.317	48.625	−114.425
Harrison Creek	48.529	−113.751	48.574	−113.702
Harrison Lake	48.516	−113.771		
Harvey Creek	46.581	−113.574	46.707	−113.373
Hogback Creek	46.410	−113.703	46.440	−113.626
Holland Creek	47.451	−113.582	47.451	−113.572
Holland Lake	47.448	−113.598		
Hughes Creek	45.621	−114.304	45.657	−114.044
Hughes Fork	48.805	−116.924	48.893	−117.001
Hungry Horse Reservoir	48.201	−113.798		
Indian Creek	48.610	−116.837	48.634	−116.790
Indian Creek	48.242	−117.153	48.299	−117.152
Jackson Creek	48.856	−117.002	48.854	−117.024
Jim Creek	47.648	−113.793	47.587	−113.898
Jocko River	47.195	−113.853	47.201	−113.924
Johnson Creek	48.131	−116.226	48.139	−116.230
Keokee Creek	48.389	−116.698	48.407	−116.685
Kintla Creek	48.975	−114.250	48.986	−114.064
Kintla Lake	48.959	−114.307		
Kishenehn Creek	48.950	−114.412	49.000	−114.365
Lake Alva	47.313	−113.582		
Lake Inez	47.282	−113.567		
Lake Isabel	48.422	−113.494		
Lake Marshall	47.288	−113.650		
Lake McDonald	48.583	−113.926		
Lake Pend Oreille	48.152	−116.410		
Landers Fork	46.965	−112.563	47.099	−112.569
LeClerc Creek	48.518	−117.284	48.534	−117.283
Lick Creek	45.939	−113.679	45.938	−113.718
Lightning Creek	48.140	−116.192	48.353	−116.176
Lime Creek	48.907	−116.957	48.894	−116.965
Lincoln Creek	48.592	−113.767	48.596	−113.759
Lincoln Lake	48.591	−113.771		
Lindbergh Lake	47.381	−113.734		
Lion Creek	47.681	−113.816	47.670	−113.711
Lion Creek	48.736	−116.832	48.725	−116.673
Little Boulder Creek	45.716	−114.278	45.726	−114.228
Little Joe Creek	47.269	−115.141	47.297	−115.121
Little Salmon Creek	47.587	−113.611	47.654	−113.361

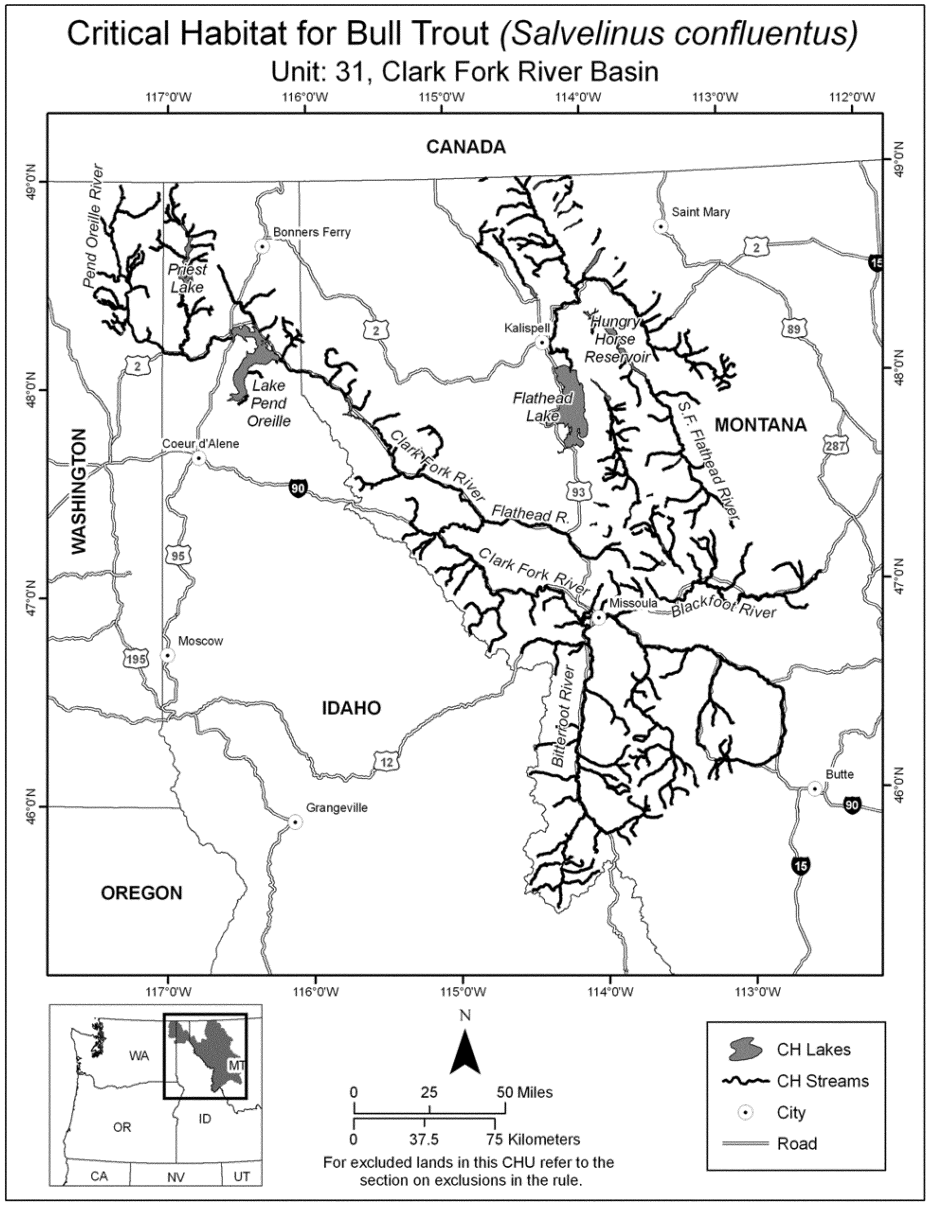
Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Little Stony Creek	46.293	−113.683	46.286	−113.775
Lodgepole Creek	47.182	−113.203	47.229	−113.271
Lodgepole Creek	48.115	−113.264	48.141	−113.133
Logging Creek	48.776	−114.020	48.784	−114.002
Logging Lake	48.758	−114.075		
Lolo Creek	46.712	−114.533	46.743	−114.061
Long Creek	48.157	−113.530	48.094	−113.497
Lost Creek	47.870	−113.849	47.873	−113.825
Lost Creek	47.118	−115.109	47.118	−115.109
Lost Horse Creek	46.120	−114.306	46.120	−114.306
Lower Quartz Lake	48.807	−114.172		
Lunch Creek	48.825	−117.399	48.820	−117.389
Malcom Creek	48.982	−116.940	48.980	−116.931
Marshall Creek	47.279	−113.598	47.276	−113.727
Martin Creek	45.930	−113.724	46.009	−113.812
Mathias Creek	48.669	−114.423	48.647	−114.472
McDonald Creek	48.506	−114.006	48.646	−113.848
McDonald Lake	47.421	−113.977		
Meadow Creek	46.128	−113.429	46.097	−113.441
Meadow Creek	45.908	−113.781	45.813	−113.791
Middle Branch Le Clerc Creek	48.585	−117.262	48.654	−117.218
Middle Fork East River	48.371	−116.820	48.386	−116.678
Middle Fork Flathead River	48.468	−114.070	47.996	−113.058
Middle Fork Rock Creek	46.001	−113.526	46.223	−113.522
Middle Quartz Lake	48.822	−114.142		
Mill Creek	48.489	−117.266	48.447	−117.139
Mission Creek	47.320	−113.990	47.324	−113.974
Mission Reservoir	47.319	−114.008		
Monture Creek	47.020	−113.236	47.268	−113.181
Moose Creek	45.922	−113.728	46.009	−113.708
Mormon Creek	46.756	−114.115	46.697	−114.205
Morrell Creek	47.141	−113.461	47.342	−113.472
Morris Creek	48.208	−116.081	48.224	−116.118
Morrison Creek	48.110	−113.311	48.237	−113.261
Nez Perce Fork	45.802	−114.268	45.734	−114.473
North Fork Blackfoot River	46.985	−113.130	47.196	−112.887
North Fork Cold Creek	47.562	−113.812	47.555	−113.906
North Fork East River	48.371	−116.820	48.449	−116.735
North Fork Fish Creek	46.907	−114.806	46.932	−114.924
North Fork Flathead River	48.469	−114.073	49.000	−114.475
North Fork Granite Creek	48.700	−117.030	48.771	−117.067
North Fork Indian Creek	48.658	−116.719	48.634	−116.790
North Fork Jocko River	47.201	−113.924	47.226	−113.816
North Fork Little Joe Creek	47.203	−115.275	47.269	−115.141
North Fork Lost Creek	47.873	−113.825	47.896	−113.738
North Fork Of South Fork Tacoma Creek	48.399	−117.362	48.435	−117.483
North Fork Rock Creek	46.212	−113.697	46.232	−113.756
North Gold Creek	47.973	−116.453	47.975	−116.427
Noxon Rapids Reservoir	47.892	−115.675		
Nyack Creek	48.452	−113.797	48.490	−113.701
O'Brien Creek	46.837	−114.299	46.850	−114.103
Ole Creek	48.283	−113.599	48.316	−113.464
Oregon Gulch	47.143	−114.968	47.122	−115.021
Overwhich Creek	45.674	−114.308	45.717	−114.081
Pack River	48.320	−116.383	48.603	−116.637
Painted Rocks Reservoir	45.701	−114.294		
Park Creek	48.310	−113.614	48.420	−113.509
Pend Oreille River	48.989	−117.349	48.251	−116.538
Petty Creek	46.992	−114.447	46.849	−114.439
Piper Creek	47.675	−113.816	47.622	−113.956
Placid Creek	47.116	−113.542	47.178	−113.675
Placid Lake	47.119	−113.525		
Pocket Creek	48.934	−114.079	48.955	−114.104
Poorman Creek	46.897	−112.653	46.897	−112.653
Porcupine Creek	48.267	−116.124	48.253	−116.157
Post Creek	47.416	−113.961	47.399	−113.893
Priest Lake	48.588	−116.865		
Priest River	48.173	−116.893	48.490	−116.905
Prospect Creek	47.592	−115.358	47.568	−115.677
Quartz Creek	48.815	−114.166	48.839	−114.004
Quartz Lake	48.829	−114.102		

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Quintonkon Creek	48.013	−113.768	48.026	−113.708
Railroad Creek	46.158	−113.886	46.167	−113.816
Rainbow Creek	48.855	−114.054	48.869	−114.054
Rainy Lake	47.339	−113.595		
Ranch Creek	46.468	−113.578	46.583	−113.679
Rapid Creek	47.372	−113.055	47.382	−113.026
Rattle Creek	48.326	−116.173	48.314	−116.101
Rattlesnake Creek	46.867	−113.986	47.098	−113.910
Red Meadow Creek	48.805	−114.325	48.773	−114.543
Reynolds Creek	45.947	−113.718	45.957	−113.682
Rock Creek	46.725	−113.683	46.223	−113.522
Rock Creek	47.975	−115.744	48.044	−115.654
Rock Creek	48.923	−116.966	48.906	−116.971
Ross Fork	46.184	−113.526	46.184	−113.526
Ruby Creek	48.556	−117.343	48.568	−117.510
Saint Mary's Lake	47.261	−113.923		
Saint Regis River	47.297	−115.090	47.349	−115.292
Salmon Lake	47.093	−113.404		
Sand Basin Creek	46.197	−113.704	46.153	−113.688
Savage Creek	48.226	−116.029	48.248	−116.097
Scalp Creek	47.982	−113.042	47.957	−113.082
Schafer Creek	48.038	−113.270	48.071	−113.251
Seeley Lake	47.194	−113.510		
Shorty Creek	48.851	−114.594	48.818	−114.614
Skalkaho Creek	46.220	−114.163	46.071	−113.818
Slate Creek	45.698	−114.287	45.712	−114.166
Slate Creek	48.923	−117.333	48.927	−117.318
Sleeping Child Creek	46.161	−114.160	46.033	−113.815
Small Creek	48.321	−117.308	48.337	−117.410
Soup Creek	47.837	−113.844	47.812	−113.751
South Boulder Creek	46.415	−113.201	46.415	−113.201
South Fork Bull River	48.170	−115.789	48.193	−115.816
South Fork Coal Creek	48.680	−114.346	48.674	−114.472
South Fork Fish Creek	46.927	−114.697	46.813	−114.640
South Fork Flathead River	47.830	−113.416	47.833	−113.417
South Fork Granite Creek	48.700	−117.030	48.691	−117.134
South Fork Indian Creek	48.624	−116.717	48.634	−116.790
South Fork Jocko River	47.103	−113.768	47.195	−113.853
South Fork Little Joe Creek	47.172	−115.224	47.269	−115.141
South Fork Lolo Creek	46.762	−114.266	46.605	−114.309
South Fork Lost Creek	47.868	−113.738	47.873	−113.825
South Fork Tacoma Creek	48.394	−117.324	48.432	−117.507
South Woodward Creek	47.754	−113.858	47.717	−113.858
Spotted Bear River	47.924	−113.526	47.877	−113.212
Squeezer Creek	47.750	−113.816	47.717	−113.729
Stillwater River	48.604	−114.657	48.789	−114.686
Stony Creek	46.274	−113.731	46.274	−113.731
Storm Lake Creek	46.169	−113.154	46.075	−113.268
Strawberry Creek	47.996	−113.058	48.111	−113.028
Strong Creek	48.243	−116.303	48.264	−116.279
Sullivan Creek	48.050	−113.689	47.879	−113.657
Sullivan Creek	48.865	−117.371	48.955	−117.069
Sullivan Springs	48.088	−116.412	48.084	−116.388
Swamp Creek	47.920	−115.689	47.994	−115.565
Swan Lake	47.955	−113.895		
Swan River	47.346	−113.742	47.404	−113.718
Swift Creek	48.481	−114.425	48.654	−114.551
Tacoma Creek	48.391	−117.289	48.445	−117.508
The Thorofare	48.740	−116.843	48.766	−116.865
Thompson River	47.576	−115.241	47.713	−115.059
Tillicum Creek	48.725	−117.071	48.729	−117.083
Tin Cup Creek	45.973	−114.349	46.016	−114.168
Tolan Creek	45.777	−113.827	45.856	−113.913
Trail Creek	48.013	−113.020	48.012	−112.946
Trail Creek	48.924	−114.386	48.933	−114.536
Trapper Creek	48.796	−116.897	48.851	−116.879
Trestle Creek	48.351	−116.235	48.283	−116.353
Trout Creek	47.030	−114.966	47.106	−114.897
Trout Lake	48.680	−113.910		
Twelvemile Creek	47.349	−115.292	47.465	−115.325
Twin Lakes Creek	46.070	−113.221	46.169	−113.153

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Two Bear Creek	46.111	−114.010	46.094	−113.897
Two Mouth Creek	48.674	−116.677	48.687	−116.837
Uleda Creek	48.388	−116.708	48.362	−116.696
Upper Kintla Lake	48.976	−114.176		
Upper Priest Lake	48.785	−116.889		
Upper Priest River	48.799	−116.912	48.995	−116.942
Upper Stillwater Lake	48.588	−114.637		
Upper Whitefish Lake	48.687	−114.579		
Vermilion River	47.832	−115.535	47.879	−115.355
Ward Creek	47.274	−115.355	47.312	−115.234
Warm Springs Creek	46.210	−112.768	46.261	−113.137
Warm Springs Creek	45.860	−114.026	45.742	−114.070
Welcome Creek	46.566	−113.701	46.603	−113.768
Wellington Creek	48.295	−116.174	48.290	−116.163
West Branch LeClerc Creek	48.534	−117.283	48.701	−117.212
West Fork Bitterroot River	45.621	−114.304	45.718	−114.281
West Fork Clearwater River	47.256	−113.551	47.287	−113.745
West Fork Fish Creek	46.927	−114.697	46.812	−114.891
West Fork Fishtrap Creek	47.793	−115.224	47.816	−115.145
West Fork Gold Creek	46.996	−113.686	47.032	−113.828
West Fork Rock Creek	46.170	−113.762	46.171	−113.762
West Fork Swift Creek	48.654	−114.551	48.726	−114.653
West Fork Thompson River	47.650	−115.174	47.714	−115.207
West Gold Creek	47.953	−116.452	47.930	−116.504
Whale Creek	48.849	−114.353	48.851	−114.594
Wheeler Creek	48.097	−113.730	48.066	−113.776
White River	47.588	−113.299	47.611	−113.204
Whitefish Lake	48.451	−114.381		
Winchester Creek	48.271	−117.343	48.329	−117.476
Woodward Creek	47.767	−113.880	47.777	−113.846
Wounded Buck Creek	48.280	−113.936	48.234	−113.963
Youngs Creek	47.445	−113.183	47.282	−113.314

(iii) Waterbodies associated with the following habitat conservation plan (HCP) totaling 209.0 km (129.9 mi) of streams and 32.2 ha (79.7 ac) of lakes and reservoirs have been excluded from critical habitat designation under section 4(b)(2) of the Act in this unit. These are waterbodies within the geographic area covered by the Plum Creek Native Fish Habitat Conservation Plan (HCP), including portions of Lower Clark Fork River, Middle Clark Fork River, Upper Clark Fork River, Bitterroot River, Rock Creek, Blackfoot, Clearwater, Flathead, Swan, and South Fork CHSUs.

(iv) Map of Unit 31, Clark Fork River Basin follows:



(41) Unit 32: St. Mary River Basin

(i) This unit consists of 34.7 km (21.6 mi) of streams and 1,669.3 ha (4,125.0 ac) of lakes and reservoirs. The unit is located in northwestern Montana.

(ii) Individual waterbodies in the unit are bounded by the following coordinates:

Waterbody Name	Stream Begin Point or Lake Center Latitude	Stream Begin Point or Lake Center Longitude	Stream End Point Latitude	Stream End Point Longitude
Boulder Creek	48.776	−113.550	48.839	−113.460
Canyon Creek	48.740	−113.647	48.730	−113.657
Cracker Lake	48.744	−113.644		
Divide Creek	48.694	−113.421	48.751	−113.438
Kennedy Creek	48.851	−113.604	48.905	−113.409
Lee Creek	48.998	−113.601	48.919	−113.638
Lower St. Mary Lake	48.796	−113.423		
Middle Fork Lee Creek	48.998	−113.550	48.978	−113.585
Otatso Creek	48.894	−113.638	48.904	−113.621
Otatso Lake	48.892	−113.677		
Red Eagle Creek	48.648	−113.510	48.630	−113.541
Red Eagle Lake	48.652	−113.507		
Saint Mary River	48.756	−113.425	48.844	−113.418
Slide Lakes - lower pool	48.905	−113.616		
Slide Lakes - upper pool	48.902	−113.625		
St. Mary Lake	48.699	−113.509		
Swiftcurrent Creek	48.836	−113.429	48.839	−113.460

(iii) Waterbodies associated with the following tribal lands totaling 82.1 km (51.0 mi) of streams and 886.1 ha (2,189.5 ac) of lakes and reservoirs have been excluded from critical habitat designation under section 4(b)(2) of the Act in this unit. These are waterbodies within the areas under management by the Blackfeet Tribe, within reservation boundaries, and waterbodies that are adjacent to:

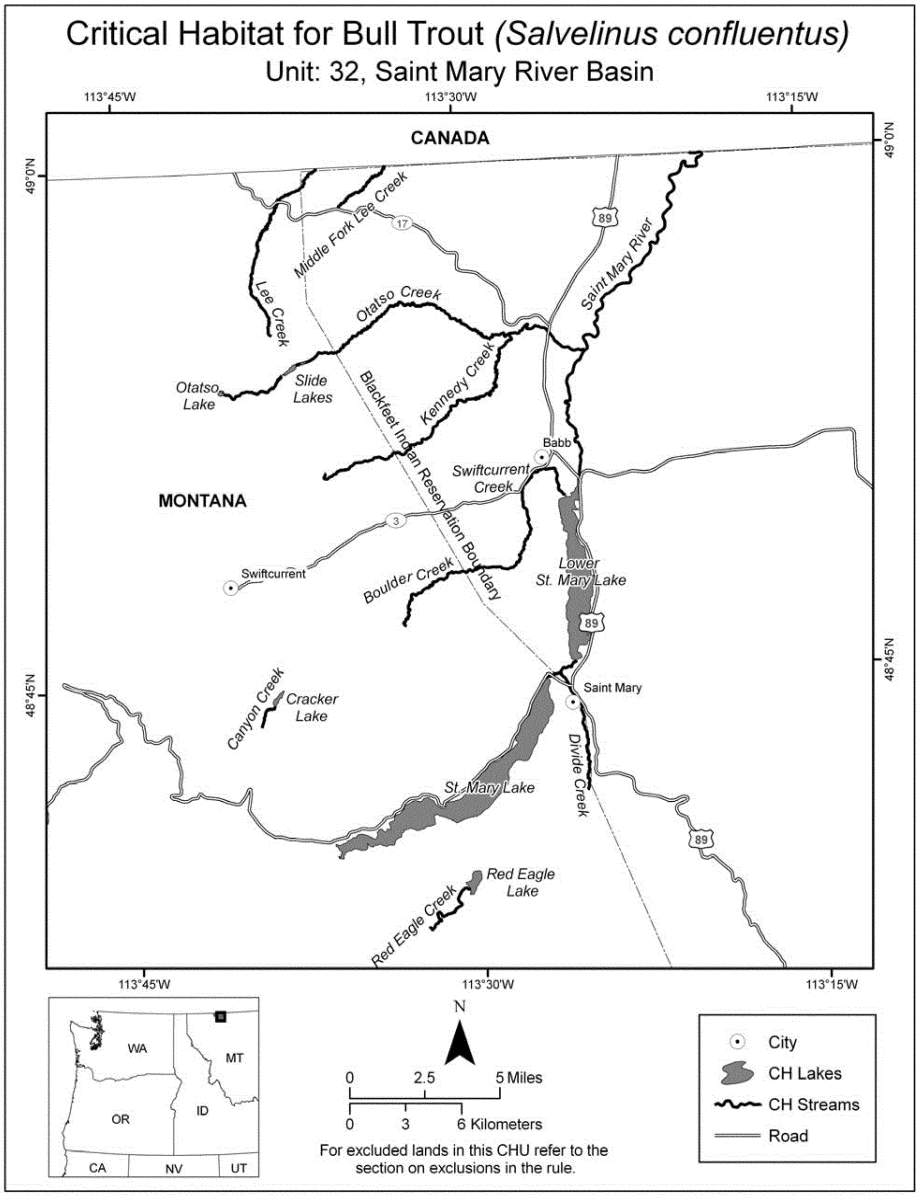
(A) Lands held in trust by the United States for their benefit;

(B) Lands held in trust by the United States for any Indian Tribe or individual subject to restrictions by the United States against alienation;

(C) Fee lands, either within or outside the reservation boundaries, owned by the tribal government; and

(D) Fee lands within the reservation boundaries owned by individual Indians.

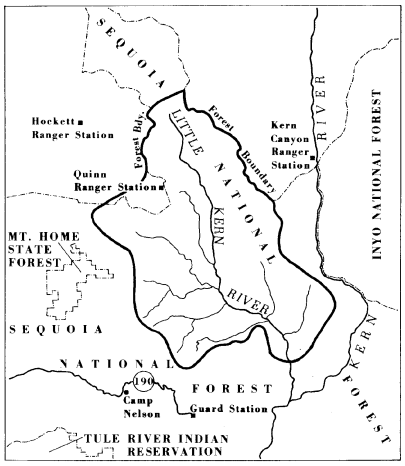
(iv) Map of Unit 32, St. Mary River Basin follows:



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: The map provided is for informational purposes only. 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.

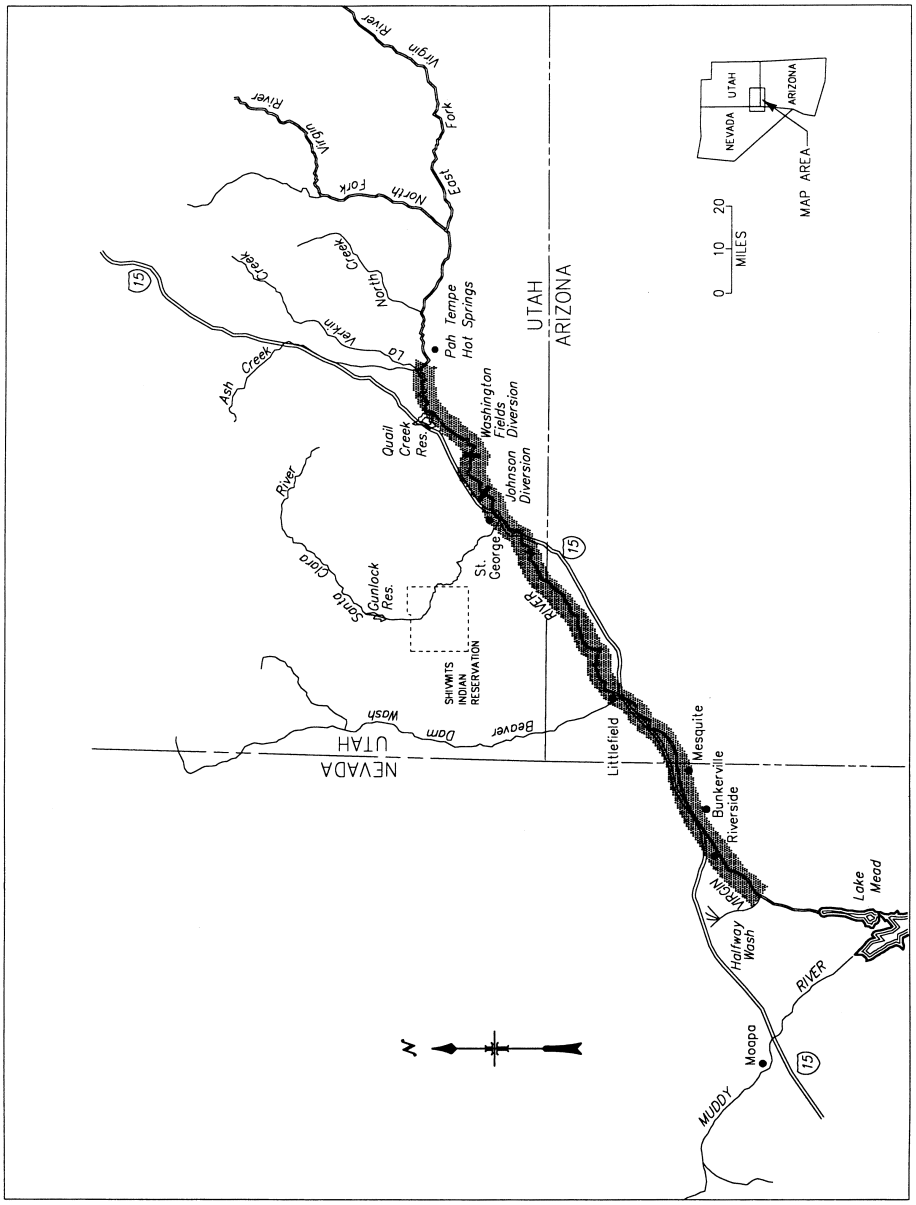
Biological Environment—Food supply, predation, and competition are important elements of the biological environment and are considered components of this constituent element. Food supply is a function of nutrient supply, productivity, and availability to each life stage of the species. Predation and 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.

NOTE: The map provided is for informational purposes only.



[42 FR 47840, Sept. 22, 1977]

EDITORIAL NOTES: 1. 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 at *www.fdsys.gov*.

2. The remainder of §17.95 appears in 50 Part 17, §17.95(f) to end of §17.95.

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.

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For changes to this volume of the CFR prior to this listing, consult the annual edition of the monthly List of CFR Sections Affected (LSA). The LSA is available at *www.fdsys.gov*. For changes to this volume of the CFR prior to 2001, see the ''List of CFR Sections Affected, 1949–1963, 1964–1972, 1973–1985, and 1986–2000'' published in 11 separate volumes. The ''List of CFR Sections Affected 1986–2000'' is available at *www.fdsys.gov*.

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17.95 (e) amended 8794, 39629, 52385
(d) amended 51362, 69588
(e) amended; eff. 10–25–13 58938

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17.95 (d) correctly amended 32677
(c) amended 39820, 51265
(e) amended 45263

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17.95 (e) amended 9150, 76249

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17.95 (d) amended 29375, 59090
(e) amended 36784, 69336

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17.95 (e) amended; CFR correction 23739

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17.95 (d) amended 278
(d) amended 18703
(e) amended 18704