

Appendix B

RARE AND ENDANGERED SPECIES LISTS



United States Department of the Interior
FISH AND WILDLIFE SERVICE

Sacramento Fish and Wildlife Office
2800 Cottage Way, Room W-2605
Sacramento, California 95825



March 2, 2011

Document Number: 110302035109

Hanan Main
Eco-Analysts
1469 Humboldt Rd., Ste. 100
Chico, CA 95928

Subject: Species List for Sutter-Yuba Mosquito Vector Control EIR

Dear: Ms. Main

We are sending this official species list in response to your March 2, 2011 request for information about endangered and threatened species. The list covers the California counties and/or U.S. Geological Survey 7½ minute quad or quads you requested.

Our database was developed primarily to assist Federal agencies that are consulting with us. Therefore, our lists include all of the sensitive species that have been found in a certain area *and also ones that may be affected by projects in the area*. For example, a fish may be on the list for a quad if it lives somewhere downstream from that quad. Birds are included even if they only migrate through an area. In other words, we include all of the species we want people to consider when they do something that affects the environment.

Please read Important Information About Your Species List (below). It explains how we made the list and describes your responsibilities under the Endangered Species Act.

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be May 31, 2011.

Please contact us if your project may affect endangered or threatened species or if you have any questions about the attached list or your responsibilities under the Endangered Species Act. A list of Endangered Species Program contacts can be found at www.fws.gov/sacramento/es/branches.htm.

Endangered Species Division



U.S. Fish & Wildlife Service
Sacramento Fish & Wildlife Office
Federal Endangered and Threatened Species that Occur in
or may be Affected by Projects in the Counties and/or
U.S.G.S. 7 1/2 Minute Quads you requested

Document Number: 110302035109

Database Last Updated: April 29, 2010

Quad Lists

Listed Species

Invertebrates

- Branchinecta conservatio*
Conservancy fairy shrimp (E)
- Branchinecta lynchi*
Critical habitat, vernal pool fairy shrimp (X)
vernal pool fairy shrimp (T)
- Desmocerus californicus dimorphus*
valley elderberry longhorn beetle (T)
- Lepidurus packardii*
Critical habitat, vernal pool tadpole shrimp (X)
vernal pool tadpole shrimp (E)

Fish

- Acipenser medirostris*
green sturgeon (T) (NMFS)
- Hypomesus transpacificus*
delta smelt (T)
- Oncorhynchus mykiss*
Central Valley steelhead (T) (NMFS)
Critical habitat, Central Valley steelhead (X) (NMFS)
- Oncorhynchus tshawytscha*
Central Valley spring-run chinook salmon (T) (NMFS)
Critical Habitat, Central Valley spring-run chinook (X) (NMFS)
Critical habitat, winter-run chinook salmon (X) (NMFS)
winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

- Ambystoma californiense*
California tiger salamander, central population (T)
- Rana draytonii*
California red-legged frog (T)

Reptiles

- Thamnophis gigas*
giant garter snake (T)

Plants

- Cordylanthus palmatus*
palmate-bracted bird's-beak (E)

Candidate Species

Birds

Coccyzus americanus occidentalis
Western yellow-billed cuckoo (C)

Quads Containing Listed, Proposed or Candidate Species:

RIO LINDA (512B)
TAYLOR MONUMENT (513A)
SHERIDAN (528B)
PLEASANT GROVE (528C)
NICOLAUS (529A)
SUTTER CAUSEWAY (529B)
KNIGHTS LANDING (529C)
VERONA (529D)
KIRKVILLE (530A)
ELDORADO BEND (530D)
SMARTVILLE (543A)
BROWNS VALLEY (543B)
WHEATLAND (543C)
CAMP FAR WEST (543D)
YUBA CITY (544A)
SUTTER (544B)
GILSIZER SLOUGH (544C)
OLIVEHURST (544D)
SUTTER BUTTES (545A)
MERIDIAN (545B)
GRIMES (545C)
TISDALE WEIR (545D)
LOMA RICA (559C)
GRIDLEY (560C)
HONCUT (560D)
PENNINGTON (561D)

County Lists

No county species lists requested.

Key:

- (E) *Endangered* - Listed as being in danger of extinction.
- (T) *Threatened* - Listed as likely to become endangered within the foreseeable future.
- (P) *Proposed* - Officially proposed in the Federal Register for listing as endangered or threatened.
- (NMFS) Species under the Jurisdiction of the [National Oceanic & Atmospheric Administration Fisheries Service](#). Consult with them directly about these species.
- Critical Habitat* - Area essential to the conservation of a species.
- (PX) *Proposed Critical Habitat* - The species is already listed. Critical habitat is being proposed for it.
- (C) *Candidate* - Candidate to become a proposed species.
- (V) Vacated by a court order. Not currently in effect. Being reviewed by the Service.
- (X) *Critical Habitat* designated for this species

Important Information About Your Species List

How We Make Species Lists

We store information about endangered and threatened species lists by U.S. Geological Survey 7½ minute quads. The United States is divided into these quads, which are about the size of San Francisco.

The animals on your species list are ones that occur within, **or may be affected by** projects within, the quads covered by the list.

- Fish and other aquatic species appear on your list if they are in the same watershed as your quad or if water use in your quad might affect them.
- Amphibians will be on the list for a quad or county if pesticides applied in that area may be carried to their habitat by air currents.
- Birds are shown regardless of whether they are resident or migratory. Relevant birds on the county list should be considered regardless of whether they appear on a quad list.

Plants

Any plants on your list are ones that have actually been observed in the area covered by the list. Plants may exist in an area without ever having been detected there. You can find out what's in the surrounding quads through the California Native Plant Society's online [Inventory of Rare and Endangered Plants](#).

Surveying

Some of the species on your list may not be affected by your project. A trained biologist and/or botanist, familiar with the habitat requirements of the species on your list, should determine whether they or habitats suitable for them may be affected by your project. We recommend that your surveys include any proposed and candidate species on your list. See our [Protocol](#) and [Recovery Permits](#) pages.

For plant surveys, we recommend using the [Guidelines for Conducting and Reporting Botanical Inventories](#). The results of your surveys should be published in any environmental documents prepared for your project.

Your Responsibilities Under the Endangered Species Act

All animals identified as listed above are fully protected under the Endangered Species Act of 1973, as amended. Section 9 of the Act and its implementing regulations prohibit the take of a federally listed wildlife species. Take is defined by the Act as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect" any such animal.

Take may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or shelter (50 CFR §17.3).

Take incidental to an otherwise lawful activity may be authorized by one of two procedures:

- If a Federal agency is involved with the permitting, funding, or carrying out of a project that may result in take, then that agency must engage in a formal [consultation](#) with the Service. During formal consultation, the Federal agency, the applicant and the Service work together to avoid or minimize the impact on listed species and their habitat. Such consultation would result in a biological opinion by the Service addressing the anticipated effect of the project on listed and proposed species. The opinion may authorize a limited level of incidental take.
- If no Federal agency is involved with the project, and federally listed species may be taken as part of the project, then you, the applicant, should apply for an incidental take permit. The Service may issue such a permit if you submit a satisfactory conservation plan for the species that would be affected by your project.

Should your survey determine that federally listed or proposed species occur in the area and are likely to be affected by the project, we recommend that you work with this office and the California Department of Fish and Game to develop a plan that minimizes the project's direct and indirect impacts to listed species and compensates for project-related loss of habitat. You should include the plan in any environmental documents you file.

Critical Habitat

When a species is listed as endangered or threatened, areas of habitat considered essential to its conservation may be designated as critical habitat. These areas may require special management considerations or protection. They provide needed space for growth and normal behavior; food, water, air, light, other nutritional or physiological requirements; cover or shelter; and sites for breeding, reproduction, rearing of offspring, germination or seed dispersal.

Although critical habitat may be designated on private or State lands, activities on these lands are not restricted unless there is Federal involvement in the activities or direct harm to listed wildlife.

If any species has proposed or designated critical habitat within a quad, there will be a separate line for this on the species list. Boundary descriptions of the critical habitat may be found in the Federal Register. The information is also reprinted in the Code of Federal Regulations (50 CFR 17.95). See our [Map Room](#) page.

Candidate Species

We recommend that you address impacts to candidate species. We put plants and animals on our candidate list when we have enough scientific information to eventually propose them for listing as threatened or endangered. By considering these species early in your planning process you may be able to avoid the problems that could develop if one of these candidates was listed before the end of your project.

Species of Concern

The Sacramento Fish & Wildlife Office no longer maintains a list of species of concern. However, various other agencies and organizations maintain lists of at-risk species. These lists provide essential information for land management planning and conservation efforts. [More info](#)

Wetlands

If your project will impact wetlands, riparian habitat, or other jurisdictional waters as defined by section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act, you will need to obtain a permit from the U.S. Army Corps of Engineers. Impacts to wetland habitats require site specific mitigation and monitoring. For questions regarding wetlands, please contact Mark Littlefield of this office at (916) 414-6520.

Updates

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be May 31, 2011.

California Department of Fish and Game
 Natural Diversity Database
 CNDDDB Wide Tabular Report
 Sutter Yuba Counties

Name (Scientific/Common)	CNDDDB Ranks	Other Lists	Listing Status	Total EO's	Element Occ Ranks						Population Status		Presence		
					A	B	C	D	X	U	Historic >20 yr	Recent <=20 yr	Pres. Extant	Poss. Extirp.	Extirp.
<i>Agelaius tricolor</i> tricolored blackbird	G2G3 S2	CDFG: SC	Fed: None Cal: None	427 S:19	1	1	0	0	11	6	14	5	8	9	2
<i>Ambystoma californiense</i> California tiger salamander	G2G3 S2S3	CDFG: SC	Fed: Threatened Cal: Threatened	1051 S:1	0	0	0	0	1	0	1	0	0	0	1
<i>Ammodramus savannarum</i> grasshopper sparrow	G5 S2	CDFG: SC	Fed: None Cal: None	16 S:1	0	0	1	0	0	0	0	1	1	0	0
<i>Anthicus antiochensis</i> Antioch Dunes anthicid beetle	G1 S1	CDFG:	Fed: None Cal: None	6 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Anthicus sacramento</i> Sacramento anthicid beetle	G1 S1	CDFG:	Fed: None Cal: None	13 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Antrozous pallidus</i> pallid bat	G5 S3	CDFG: SC	Fed: None Cal: None	402 S:1	0	1	0	0	0	0	0	1	1	0	0
<i>Asio otus</i> long-eared owl	G5 S3	CDFG: SC	Fed: None Cal: None	40 S:1	1	0	0	0	0	0	0	1	1	0	0
<i>Astragalus tener var. ferrisiae</i> Ferris' milk-vetch	G1T1 S1.1	CNPS: 1B.1	Fed: None Cal: None	16 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Athene cunicularia</i> burrowing owl	G4 S2	CDFG: SC	Fed: None Cal: None	1535 S:2	0	0	1	0	0	1	1	1	2	0	0
<i>Branchinecta lynchi</i> vernal pool fairy shrimp	G3 S2S3	CDFG:	Fed: Threatened Cal: None	604 S:3	0	1	0	0	0	2	0	3	3	0	0
<i>Branta hutchinsii leucopareia</i> cackling (=Aleutian Canada) goose	G5T4 S2	CDFG:	Fed: Delisted Cal: None	19 S:5	0	1	0	0	0	4	4	1	5	0	0
<i>Buteo swainsoni</i> Swainson's hawk	G5 S2	CDFG:	Fed: None Cal: Threatened	1684 S:138	1	9	0	0	0	128	41	97	138	0	0
<i>Buxbaumia viridis</i> buxbaumia moss	G3G4 S2	CNPS:	Fed: None Cal: None	5 S:1	0	0	0	0	0	1	0	1	1	0	0
<i>Cicindela hirticollis abrupta</i> Sacramento Valley tiger beetle	G5TH SH	CDFG:	Fed: None Cal: None	5 S:3	0	0	0	0	2	1	3	0	0	3	0
<i>Circus cyaneus</i> northern harrier	G5 S3	CDFG: SC	Fed: None Cal: None	43 S:5	0	2	3	0	0	0	0	5	5	0	0
<i>Clarkia biloba ssp. brandegeeeae</i> Brandegee's clarkia	G4G5T3 S3	CNPS: 1B.2	Fed: None Cal: None	89 S:11	2	1	2	0	0	6	5	6	11	0	0

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					A	B	C	D	X	U	Historic >20 yr	Recent <=20 yr	Pres. Extant	Poss. Extirp.	Extirp.
<i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	G5T3Q S1	CDFG:	Fed: Candidate Cal: Endangered	117 S:7	0	0	0	0	0	7	7	0	7	0	0
<i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	G3T2 S2	CDFG:	Fed: Threatened Cal: None	201 S:18	1	3	2	0	0	12	8	10	18	0	0
<i>Dipodomys californicus eximius</i> Marysville California kangaroo rat	G4T1 S1	CDFG: SC	Fed: None Cal: None	2	0	0	0	0	0	2	2	0	2	0	0
<i>Downingia pusilla</i> dwarf downingia	G2 S2	CNPS: 2.2	Fed: None Cal: None	117 S:2	0	0	0	0	0	2	1	1	2	0	0
<i>Elanus leucurus</i> white-tailed kite	G5 S3	CDFG:	Fed: None Cal: None	156 S:1	1	0	0	0	0	0	0	1	1	0	0
<i>Emys marmorata</i> western pond turtle	G3G4 S3	CDFG: SC	Fed: None Cal: None	1121 S:10	2	2	1	0	0	5	2	8	10	0	0
<i>Eriogonum umbellatum var. ahartii</i> Ahart's buckwheat	G5T2 S2	CNPS: 1B.2	Fed: None Cal: None	26 S:5	0	0	0	0	0	5	0	5	5	0	0
<i>Fritillaria eastwoodiae</i> Butte County fritillary	G3Q S3	CNPS: 3.2	Fed: None Cal: None	212 S:8	2	0	1	1	0	4	0	8	8	0	0
<i>Grus canadensis tabida</i> greater sandhill crane	G5T4 S2	CDFG:	Fed: None Cal: Threatened	603 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Haliaeetus leucocephalus</i> bald eagle	G5 S2	CDFG:	Fed: Delisted Cal: Endangered	306 S:2	0	1	0	0	0	1	0	2	2	0	0
<i>Hibiscus lasiocarpus var. occidentalis</i> woolly rose-mallow	G4 S2.2	CNPS: 2.2	Fed: None Cal: None	132 S:11	0	1	0	0	0	10	9	2	11	0	0
<i>Juncus leiospermus var. ahartii</i> Ahart's dwarf rush	G2T1 S1.2	CNPS: 1B.2	Fed: None Cal: None	13 S:1	0	1	0	0	0	0	0	1	1	0	0
<i>Lasiurus blossevillii</i> western red bat	G5 S3?	CDFG: SC	Fed: None Cal: None	119 S:2	0	1	0	0	0	1	0	2	2	0	0
<i>Lasiurus cinereus</i> hoary bat	G5 S4?	CDFG:	Fed: None Cal: None	235 S:2	0	1	0	0	0	1	0	2	2	0	0
<i>Laterallus jamaicensis coturniculus</i> California black rail	G4T1 S1	CDFG:	Fed: None Cal: Threatened	236 S:55	1	0	0	0	0	54	21	34	55	0	0
<i>Layia septentrionalis</i> Colusa layia	G2 S2.2	CNPS: 1B.2	Fed: None Cal: None	44 S:1	0	0	0	0	0	1	1	0	1	0	0

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<i>Legenere limosa</i> legenere	G2 S2.2	CNPS: 1B.1	Fed: None Cal: None	72 S:3	3	0	0	0	0	0	0	3	3	0	0
<i>Lepidurus packardi</i> vernal pool tadpole shrimp	G3 S2S3	CDFG:	Fed: Endangered Cal: None	252 S:14	0	4	1	0	0	9	2	12	14	0	0
<i>Linderiella occidentalis</i> California linderiella	G3 S2S3	CDFG:	Fed: None Cal: None	377 S:20	0	4	1	0	0	15	13	7	20	0	0
<i>Lupinus daliesiae</i> Quincy lupine	G3 S3.2	CNPS: 4.2	Fed: None Cal: None	228 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Martes pennanti (pacifica) DPS</i> Pacific fisher	G5 S2S3	CDFG: SC	Fed: Candidate Cal: None	646 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Monardella douglasii ssp. venosa</i> veiny monardella	G5T1 S1.1	CNPS: 1B.1	Fed: None Cal: None	4 S:1	0	0	0	0	1	0	1	0	0	1	0
<i>Myotis yumanensis</i> Yuma myotis	G5 S4?	CDFG:	Fed: None Cal: None	256 S:1	0	1	0	0	0	0	0	1	1	0	0
<i>Navarretia leucocephala ssp. bakeri</i> Baker's navarretia	G4T2 S2.1	CNPS: 1B.1	Fed: None Cal: None	45 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Nycticorax nycticorax</i> black-crowned night heron	G5 S3	CDFG:	Fed: None Cal: None	25 S:1	1	0	0	0	0	0	1	0	1	0	0
<i>Oncorhynchus tshawytscha</i> chinook salmon - Central Valley spring-run ESU	G5 S1	CDFG:	Fed: Threatened Cal: Threatened	13 S:1	0	0	0	1	0	0	0	1	1	0	0
<i>Packera layneae</i> Layne's ragwort	G2 S2	CNPS: 1B.2	Fed: Threatened Cal: Rare	47 S:5	0	3	0	2	0	0	0	5	5	0	0
<i>Peltigera hydrothyria</i> aquatic felt lichen	G4 S3.2	CNPS:	Fed: None Cal: None	26 S:1	0	0	0	0	0	1	0	1	1	0	0
<i>Perognathus inornatus inornatus</i> San Joaquin pocket mouse	G4T2T3 S2S3	CDFG:	Fed: None Cal: None	109 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Pogonichthys macrolepidotus</i> Sacramento splittail	G2 S2	CDFG: SC	Fed: None Cal: None	15 S:1	0	1	0	0	0	0	0	1	1	0	0
<i>Pseudobahia bahiifolia</i> Hartweg's golden sunburst	G2 S2.1	CNPS: 1B.1	Fed: Endangered Cal: Endangered	22 S:1	0	0	0	0	1	0	1	0	0	0	1
<i>Pyrrocoma lucida</i> sticky pyrrocoma	G3 S3	CNPS: 1B.2	Fed: None Cal: None	71 S:1	0	0	0	0	0	1	1	0	1	0	0

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<i>Rana boylei</i> foothill yellow-legged frog	G3 S2S3	CDFG: SC	Fed: None Cal: None	804 S:8	0	0	0	0	0	8	0	8	8	0	0
<i>Rana draytonii</i> California red-legged frog	G4T2T3 S2S3	CDFG: SC	Fed: Threatened Cal: None	1322 S:1	0	0	1	0	0	0	0	1	1	0	0
<i>Rhynchospora capitellata</i> brownish beaked-rush	G5 S2S3	CNPS: 2.2	Fed: None Cal: None	19 S:1	0	1	0	0	0	0	0	1	1	0	0
<i>Riparia riparia</i> bank swallow	G5 S2S3	CDFG:	Fed: None Cal: Threatened	191 S:48	0	16	0	0	0	32	29	19	48	0	0
<i>Silene verecunda ssp. verecunda</i> San Francisco campion	G5T2 S2.2	CNPS: 1B.2	Fed: None Cal: None	12 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Spinus lawrencei</i> Lawrence's goldfinch	G3G4 S3	CDFG:	Fed: None Cal: None	3 S:2	2	0	0	0	0	0	0	2	2	0	0
<i>Thamnophis gigas</i> giant garter snake	G2G3 S2S3	CDFG:	Fed: Threatened Cal: Threatened	260 S:65	3	25	7	3	0	27	13	52	65	0	0
<i>Trichocoronis wrightii var. wrightii</i> Wright's trichocoronis	G4T3 S1.1	CNPS: 2.1	Fed: None Cal: None	9 S:1	0	0	0	0	1	0	1	0	0	1	0
<i>Wyethia reticulata</i> El Dorado County mule ears	G2 S2	CNPS: 1B.2	Fed: None Cal: None	25 S:1	0	0	0	0	0	1	0	1	1	0	0