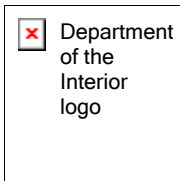
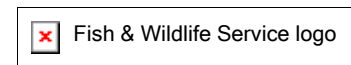


United States Department of the Interior



FISH AND WILDLIFE SERVICE



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

June 5, 2009

Document Number: 090605025459

Elaine Flock
PMC
140 Independence Circle, Suite C
Chico, CA 95973

Subject: Species List for Chico GPU EIR

Dear: Ms. Flock

We are sending this official species list in response to your June 5, 2009 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 September 03, 2009.

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



These buttons will not appear on your list.

Revise Selection

Print this page

Make Official Letter

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: 090605025459

Database Last Updated: January 29, 2009

Quad Lists

Listed Species

Invertebrates

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

- *Rana aurora draytonii*
 - California red-legged frog (T)

Reptiles

- *Thamnophis gigas*
 - giant garter snake (T)

Plants

- *Chamaesyce hooveri*
 - Critical habitat, Hoover's spurge (X)
 - Hoover's spurge (T)
- *Limnanthes floccosa* ssp. *californica*
 - Butte County (Shippee) meadowfoam (E)
 - Critical habitat, Butte County (Shippee) meadowfoam (X)
- *Orcuttia pilosa*
 - Critical habitat, hairy Orcutt grass (X)
 - hairy Orcutt grass (E)
- *Tuctoria greenei*
 - Critical habitat, Greene's tuctoria (=Orcutt grass) (X)
 - Greene's tuctoria (=Orcutt grass) (E)

Candidate Species

Birds

- *Coccyzus americanus occidentalis*
 - Western yellow-billed cuckoo (C)

Quads Containing Listed, Proposed or Candidate Species:

HAMLIN CANYON (576B)

SHIPPEE (576C)

CHICO (577A)

ORD FERRY (577B)

LLANO SECO (577C)

NELSON (577D)

PARADISE WEST (592C)

NORD (593C)

RICHARDSON SPRINGS (593D)

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) 414-6580.

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 September 03, 2009.

California Department of Fish and Game
Natural Diversity Database
Selected Elements by Scientific Name - Portrait
Chico GPU


Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 Actinemys marmorata marmorata northwestern pond turtle	ARAAD02031			G3G4T3	S3	SC
2 Agelaius tricolor tricolored blackbird	ABPBXB0020			G2G3	S2	SC
3 Anthicus antiochensis Antioch Dunes anthicid beetle	IICOL49020			G1	S1	
4 Anthicus sacramento Sacramento anthicid beetle	IICOL49010			G1	S1	
5 Antrozous pallidus pallid bat	AMACC10010			G5	S3	SC
6 Ardea alba great egret	ABNGA04040			G5	S4	
7 Ardea herodias great blue heron	ABNGA04010			G5	S4	
8 Astragalus tener var. ferrisiae Ferris' milk-vetch	PDFAB0F8R3			G1T1	S1.1	1B.1
9 Athene cunicularia burrowing owl	ABNSB10010			G4	S2	SC
10 Branchinecta conservatio Conservancy fairy shrimp	ICBRA03010	Endangered		G1	S1	
11 Branchinecta lynchi vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
12 Buteo swainsoni Swainson's hawk	ABNKC19070		Threatened	G5	S2	
13 California macrophylla round-leaved filaree	PDGER01070			G3	S3.1	1B.1
14 Calystegia atriplicifolia ssp. buttensis Butte County morning-glory	PDCON04012			G5T3	S3	4.2
15 Campylopodiella stenocarpa flagella-like atractylocarpus	NBMUS84010			G5	S1.2	2.2
16 Carex vulpinoidea brown fox sedge	PMCYP03EN0			G5	S2.2	2.2
17 Castilleja rubicundula ssp. rubicundula pink creamsacs	PDSCR0D482			G5T2	S2.2	1B.2
18 Chamaesyce hooveri Hoover's spurge	PDEUP0D150	Threatened		G2	S2.1	1B.2
19 Clarkia gracilis ssp. albicaulis white-stemmed clarkia	PDONA050J1			G5T2	S2.2?	1B.2
20 Coastal and Valley Freshwater Marsh	CTT52410CA			G3	S2.1	
21 Coccyzus americanus occidentalis western yellow-billed cuckoo	ABNRB02022	Candidate	Endangered	G5T3Q	S1	
22 Delphinium recurvatum recurved larkspur	PDRAN0B1J0			G2	S2.2	1B.2
23 Dendroica petechia brewsteri yellow warbler	ABPBX03018			G5T3?	S2	SC

California Department of Fish and Game
Natural Diversity Database
Selected Elements by Scientific Name - Portrait
Chico GPU

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
24 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
25 <i>Didymodon norrisii</i> Norris' beard moss	NBMUS2C0H0			G2G3	S2.2	2.2
26 <i>Eumops perotis californicus</i> western mastiff bat	AMACD02011			G5T4	S3?	SC
27 <i>Falco peregrinus anatum</i> American peregrine falcon	ABNKD06071	Delisted	Endangered	G4T3	S2	
28 <i>Fritillaria eastwoodiae</i> Butte County fritillary	PMLIL0V060			G3Q	S3	3.2
29 <i>Fritillaria pluriflora</i> adobe-lily	PMLIL0V0F0			G3	S3	1B.2
30 Great Valley Cottonwood Riparian Forest	CTT61410CA			G2	S2.1	
31 Great Valley Mixed Riparian Forest	CTT61420CA			G2	S2.2	
32 Great Valley Valley Oak Riparian Forest	CTT61430CA			G1	S1.1	
33 Great Valley Willow Scrub	CTT63410CA			G3	S3.2	
34 <i>Haliaeetus leucocephalus</i> bald eagle	ABNKC10010	Delisted	Endangered	G5	S2	
35 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
36 <i>Imperata brevifolia</i> California satintail	PMPOA3D020			G2	S2.1	2.1
37 <i>Juncus leiospermus</i> var. <i>leiospermus</i> Red Bluff dwarf rush	PMJUN011L2			G2T2	S2.2	1B.1
38 <i>Lanius ludovicianus</i> loggerhead shrike	ABPBR01030			G4	S4	SC
39 <i>Lasionycteris noctivagans</i> silver-haired bat	AMACC02010			G5	S3S4	
40 <i>Lasiurus blossevillii</i> western red bat	AMACC05060			G5	S3?	SC
41 <i>Lasiurus cinereus</i> hoary bat	AMACC05030			G5	S4?	
42 <i>Lepidurus packardi</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
43 <i>Limnanthes floccosa</i> ssp. <i>californica</i> Butte County meadowfoam	PDLIM02042	Endangered	Endangered	G4T1	S1.1	1B.1
44 <i>Limnanthes floccosa</i> ssp. <i>floccosa</i> woolly meadowfoam	PDLIM02043			G4T4	S3.2	4.2
45 <i>Linderiella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
46 <i>Monardella douglasii</i> ssp. <i>venosa</i> veiny monardella	PDLAM18082			G5T1	S1.1	1B.1
47 <i>Myotis yumanensis</i> Yuma myotis	AMACC01020			G5	S4?	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Chico GPU

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
48 Northern Basalt Flow Vernal Pool	CTT44131CA			G3	S2.2	
49 Northern Hardpan Vernal Pool	CTT44110CA			G3	S3.1	
50 Northern Volcanic Mud Flow Vernal Pool	CTT44132CA			G1	S1.1	
51 Oncorhynchus tshawytscha spring-run spring-run chinook salmon	AFCHA0205A	Threatened	Threatened	G5	S1	
52 Orcuttia pilosa hairy orcutt grass	PMPOA4G040	Endangered	Endangered	G2	S2.1	1B.1
53 Pandion haliaetus osprey	ABNKC01010			G5	S3	
54 Paronychia ahartii Ahart's paronychia	PDCAR0L0V0			G3	S3	1B.1
55 Phrynosoma coronatum (frontale population) coast (California) horned lizard	ARACF12022			G4G5	S3S4	SC
56 Potamogeton filiformis slender-leaved pondweed	PMPOT03090			G5	S1S2	2.2
57 Rhynchospora californica California beaked-rush	PMCYP0N060			G1	S1.1	1B.1
58 Rhynchospora capitellata brownish beaked-rush	PMCYP0N080			G5	S2S3	2.2
59 Riparia riparia bank swallow	ABPAU08010		Threatened	G5	S2S3	
60 Sidalcea robusta Butte County checkerbloom	PDMAL110P0			G2	S2.2	1B.2
61 Spea hammondii western spadefoot	AAABF02020			G3	S3	SC
62 Taxidea taxus American badger	AMAJF04010			G5	S4	SC
63 Thamnophis gigas giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	
64 Trifolium jokerstii Butte County golden clover	PDFAB40310			G1	S1.2	1B.2
65 Tuctoria greenei Greene's tuctoria	PMPOA6N010	Endangered	Rare	G2	S2.2	1B.1
66 Wolffia brasiliensis Brazilian watermeal	PMLEM03020			G5	S1.3	2.3



Inventory of Rare and Endangered Plants

v7-09b 4-10-09

Status: search results - Fri, Jun. 5, 2009, 13:50 b

{QUADS_123} =~ m/577A|593C|593D|576B|576C|592C|577B|577C

Tip: Having trouble with a multi-word search? Try a single word, e.g. ginger or cobra.
[\[all tips and help.\]](#)[\[search history\]](#)

























Your Quad Selection: **Chico (577A)** 3912167, Nord (593C) 3912178, Richardson Springs (593D) 3912177, Hamlin Canyon (576B) 3912166, Shippee (576C) 3912156, Paradise West (592C) 3912176, Ord Ferry (577B) 3912168, Llano Seco (577C) 3912158, Nelson (577D) 3912157

Hits 1 to 27 of 27
Requests that specify topo quads will return only Lists 1-3.

To save selected records for later study, click the ADD button.

Selections will appear in a new window.

open	save	hits	scientific	common	family	CNPS
	<input type="checkbox"/>	1	<u>Astragalus tener</u> var. <u>ferrisiae</u>	Ferris' milk-vetch	Fabaceae	List 1B.1
	<input type="checkbox"/>	1	<u>California macrophylla</u>	round-leaved filaree	Geraniaceae	List 1B.1
	<input type="checkbox"/>	1	<u>Calystegia atriplicifolia</u> ssp. <u>buttensis</u>	Butte County morning-glory	Convolvulaceae	List 1B.2
	<input type="checkbox"/>	1	<u>Campylopodia stenocarpa</u>	flagella-like atractylocarpus	Dicranaceae	List 2.2
	<input type="checkbox"/>	1	<u>Cardamine pachystigma</u> var. <u>dissectifolia</u>	dissected-leaved toothwort	Brassicaceae	List 3
	<input type="checkbox"/>	1	<u>Carex vulpinoidea</u>	brown fox sedge	Cyperaceae	List 2.2
	<input type="checkbox"/>	1	<u>Castilleja rubicundula</u> ssp. <u>rubicundula</u>	pink creamsacs	Scrophulariaceae	List 1B.2
	<input type="checkbox"/>	1	<u>Chamaesyce hooveri</u>	Hoover's spurge	Euphorbiaceae	List 1B.2
	<input type="checkbox"/>	1	<u>Clarkia gracilis</u> ssp. <u>albicaulis</u>	white-stemmed clarkia	Onagraceae	List 1B.2
	<input type="checkbox"/>	1	<u>Delphinium recurvatum</u>	recurved larkspur	Ranunculaceae	List 1B.2
	<input type="checkbox"/>	1	<u>Didymodon norrisii</u>	Norris' beard moss	Pottiaceae	List 2.2
	<input type="checkbox"/>	1	<u>Fritillaria eastwoodiae</u>	Butte County fritillary	Liliaceae	List 3.2
	<input type="checkbox"/>	1	<u>Fritillaria pluriflora</u>	adobe-lily	Liliaceae	List 1B.2
	<input type="checkbox"/>	1	<u>Hibiscus lasiocarpus</u>	woolly rose-mallow	Malvaceae	List 2.2

	<input type="checkbox"/>	1	<i>Imperata brevifolia</i> 	California satintail	Poaceae	List 2.1
	<input type="checkbox"/>	1	<i>Juncus leiospermus</i> var. <i>leiospermus</i> 	Red Bluff dwarf rush	Juncaceae	List 1B.1
	<input type="checkbox"/>	1	<i>Limnanthes floccosa</i> ssp. <i>californica</i> 	Butte County meadowfoam	Limnanthaceae	List 1B.1
	<input type="checkbox"/>	1	<i>Monardella douglasii</i> ssp. <i>venosa</i> 	veiny monardella	Lamiaceae	List 1B.1
	<input type="checkbox"/>	1	<i>Orcuttia pilosa</i> 	hairy Orcutt grass	Poaceae	List 1B.1
	<input type="checkbox"/>	1	<i>Paronychia ahartii</i> 	Ahart's paronychia	Caryophyllaceae	List 1B.1
	<input type="checkbox"/>	1	<i>Potamogeton filiformis</i>	slender-leaved pondweed	Potamogetonaceae	List 2.2
	<input type="checkbox"/>	1	<i>Rhynchospora californica</i> 	California beaked-rush	Cyperaceae	List 1B.1
	<input type="checkbox"/>	1	<i>Rhynchospora capitellata</i> 	brownish beaked-rush	Cyperaceae	List 2.2
	<input type="checkbox"/>	1	<i>Sidalcea robusta</i> 	Butte County checkerbloom	Malvaceae	List 1B.2
	<input type="checkbox"/>	1	<i>Trifolium jokerstii</i> 	Butte County golden clover	Fabaceae	List 1B.2
	<input type="checkbox"/>	1	<i>Tuctoria greenei</i> 	Greene's tuctoria	Poaceae	List 1B.1
	<input type="checkbox"/>	1	<i>Wolffia brasiliensis</i>	Brazilian watermeal	Lemnaceae	List 2.3

To save selected records for later study, click the ADD button.

Selections will appear in a new window.

No more hits.

