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**APPENDIX D**  
**BIOLOGICAL RESOURCES – CNDDDB,**  
**USFWS THREATENED AND ENDANGERED SPECIES,**  
**CNPS RARE AND ENDANGERED PLANTS INVENTORY**

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California Department of Fish and Game  
 Natural Diversity Database  
 Sutter County GPU EIR  
 CNDDDB Query for Sutter County, California.

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 Actinemys marmorata western pond turtle	ARAAD02030			G3G4	S3	SC
2 Agelaius tricolor tricolored blackbird	ABPBXB0020			G2G3	S2	SC
3 Ambystoma californiense California tiger salamander	AAAAA01180	Threatened	unknown code...	G2G3	S2S3	SC
4 Anthicus antiochensis Antioch Dunes anthicid beetle	IICOL49020			G1	S1	
5 Anthicus sacramento Sacramento anthicid beetle	IICOL49010			G1	S1	
6 Antrozous pallidus pallid bat	AMACC10010			G5	S3	SC
7 Athene cucularia burrowing owl	ABNSB10010			G4	S2	SC
8 Branchinecta lynchi vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
9 Branta hutchinsii leucopareia cackling (=Aleutian Canada) goose	ABNJB05035	Delisted		G5T4	S2	
10 Buteo swainsoni Swainson's hawk	ABNKC19070		Threatened	G5	S2	
11 Carduelis lawrencei Lawrence's goldfinch	ABPBY06100			G3G4	S3	
12 Cicindela hirticollis abrupta Sacramento Valley tiger beetle	IICOL02106			G5TH	SH	
13 Coastal and Valley Freshwater Marsh	CTT52410CA			G3	S2.1	
14 Coccyzus americanus occidentalis western yellow-billed cuckoo	ABNRB02022	Candidate	Endangered	G5T3Q	S1	
15 Desmocerus californicus dimorphus valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
16 Dipodomys californicus eximius Marysville California kangaroo rat	AMAFD03071			G4T1	S1	SC
17 Great Valley Cottonwood Riparian Forest	CTT61410CA			G2	S2.1	
18 Great Valley Mixed Riparian Forest	CTT61420CA			G2	S2.2	
19 Great Valley Willow Scrub	CTT63410CA			G3	S3.2	
20 Grus canadensis tabida greater sandhill crane	ABNMK01014		Threatened	G5T4	S2	
21 Hibiscus lasiocarpus var. occidentalis woolly rose-mallow	PDMAL0H0R3			G4	S2.2	2.2
22 Lasiurus blossevillii western red bat	AMACC05060			G5	S3?	SC
23 Lasiurus cinereus hoary bat	AMACC05030			G5	S4?	
24 Laterallus jamaicensis coturniculus California black rail	ABNME03041		Threatened	G4T1	S1	

California Department of Fish and Game  
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 CNDDDB Query for Sutter County, California.

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
25 <i>Layia septentrionalis</i> Colusa layia	PDAST5N0F0			G2	S2.2	1B.2
26 <i>Lepidurus packardi</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
27 <i>Linderiella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
28 <i>Monardella douglasii</i> ssp. <i>venosa</i> veiny monardella	PDLAM18082			G5T1	S1.1	1B.1
29 <i>Navarretia leucocephala</i> ssp. <i>bakeri</i> Baker's navarretia	PDPLM0C0E1			G4T2	S2.1	1B.1
30 Northern Hardpan Vernal Pool	CTT44110CA			G3	S3.1	
31 <i>Nycticorax nycticorax</i> black-crowned night heron	ABNGA11010			G5	S3	
32 <i>Perognathus inornatus inornatus</i> San Joaquin pocket mouse	AMAFD01061			G4T2T3	S2S3	
33 <i>Pogonichthys macrolepidotus</i> Sacramento splittail	AFCJB34020			G2	S2	SC
34 <i>Pseudobahia bahiifolia</i> Hartweg's golden sunburst	PDAST7P010	Endangered	Endangered	G2	S2.1	1B.1
35 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	
36 <i>Silene verecunda</i> ssp. <i>verecunda</i> San Francisco campion	PDCAR0U213			G5T2	S2.2	1B.2
37 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	
38 <i>Trichocoronis wrightii</i> var. <i>wrightii</i> Wright's trichocoronis	PDAST9F031			G4T3	S1.1	2.1

**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: 100331060236

Database Last Updated: December 1, 2009

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No quad species lists requested.

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### County Lists

#### Sutter County

##### Listed Species

##### Invertebrates

*Branchinecta conservatio*

Conservancy fairy shrimp (E)

*Branchinecta lynchi*

vernal pool fairy shrimp (T)

*Desmocerus californicus dimorphus*

valley elderberry longhorn beetle (T)

*Lepidurus packardii*

vernal pool tadpole shrimp (E)

##### Fish

*Acipenser medirostris*

green sturgeon (T) (NMFS)

*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 aurora draytonii*

California red-legged frog (T)

## Reptiles

*Thamnophis gigas*

giant garter snake (T)

## Candidate Species

### Birds

*Coccyzus americanus occidentalis*

Western yellow-billed cuckoo (C)

## 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 June 29, 2010.

### CNPS Inventory of Rare and Endangered Plants

**Status:** Plant Press Manager window with 12 items - Fri, Mar. 26, 2010 13:31 c

Reformat list as:

**ECOLOGICAL REPORT**

scientific	family	life form	blooming	communities	elevation	CNPS
<b><u>Astragalus tener</u> var. <u>ferrisiae</u></b>	Fabaceae	annual herb	Apr-May	<ul style="list-style-type: none"> <li>•Meadows and seeps (Medws)(vernally mesic)</li> <li>•Valley and foothill grassland (VFGrs)(subalkaline flats)</li> </ul>	2 - 75 meters	List 1B.1
<b><u>Centromadia parryi</u> ssp. <u>rudis</u></b>	Asteraceae	annual herb	May-Oct	<ul style="list-style-type: none"> <li>•Valley and foothill grassland (VFGrs)</li> <li>•Vernal pools (VnPIs)/alkaline, vernally mesic, seeps, sometimes roadsides</li> </ul>	0 - 100 meters	List 4.2
<b><u>Hesperevax caulescens</u></b>	Asteraceae	annual herb	Mar-Jun	<ul style="list-style-type: none"> <li>•Valley and foothill grassland (VFGrs)(mesic, clay)</li> <li>•Vernal pools (VnPIs) (shallow)</li> </ul>	0 - 505 meters	List 4.2
<b><u>Hibiscus lasiocarpus</u> var. <u>occidentalis</u></b>	Malvaceae	perennial rhizomatous herb emergent	Jun-Sep	<ul style="list-style-type: none"> <li>•Marshes and swamps (MshSw)(freshwater)</li> </ul>	0 - 120 meters	List 1B.2
<b><u>Layia septentrionalis</u></b>	Asteraceae	annual herb	Apr-May	<ul style="list-style-type: none"> <li>•Chaparral (Chprl)</li> <li>•Cismontane woodland (CmWld)</li> <li>•Valley and foothill grassland (VFGrs)/sandy, serpentinite</li> </ul>	100 - 1095 meters	List 1B.2
<b><u>Microseris sylvatica</u></b>	Asteraceae	perennial herb	Mar-Jun	<ul style="list-style-type: none"> <li>•Chaparral (Chprl)</li> <li>•Cismontane woodland (CmWld)</li> <li>•Great Basin scrub (GBScr)</li> <li>•Pinyon and juniper woodland (PJWld)</li> <li>•Valley and foothill grassland (VFGrs)(serpentinite)</li> </ul>	45 - 1500 meters	List 4.2
				<ul style="list-style-type: none"> <li>•Cismontane woodland</li> </ul>		

<b><u>Monardella douglasii</u> ssp. <u>venosa</u></b>	Lamiaceae	annual herb	May-Jul	(CmWld) •Valley and foothill grassland (VFGrs)/heavy clay	60 - 410 meters	List 1B.1
<b><u>Navarretia cotulifolia</u></b>	Polemoniaceae	annual herb	May-Jun	•Chaparral (Chprl) •Cismontane woodland (CmWld) •Valley and foothill grassland (VFGrs)/adobe	4 - 1830 meters	List 4.2
<b><u>Navarretia leucocephala</u> ssp. <u>bakeri</u></b>	Polemoniaceae	annual herb	Apr-Jul	•Cismontane woodland (CmWld) •Lower montane coniferous forest (LCFr) •Meadows and seeps (Medws) •Valley and foothill grassland (VFGrs) •Vernal pools (VnPIs)/mesic	5 - 1740 meters	List 1B.1
<b><u>Navarretia nigelliformis</u> ssp. <u>nigelliformis</u></b>	Polemoniaceae	annual herb	Apr-Jun	•Valley and foothill grassland (VFGrs)vernally mesic •Vernal pools (VnPIs) sometimes/clay, sometimes serpentinite	100 - 1000 meters	List 4.2
<b><u>Silene verecunda</u> ssp. <u>verecunda</u></b>	Caryophyllaceae	perennial herb	Mar-Jun(Aug) Months in parentheses are uncommon.	•Coastal bluff scrub (CBScr) •Chaparral (Chprl) •Coastal prairie (CoPrr) •Coastal scrub (CoScr) •Valley and foothill grassland (VFGrs)/sandy	30 - 645 meters	List 1B.2
<b><u>Trichocoronis wrightii</u> var. <u>wrightii</u></b>	Asteraceae	annual herb	May-Sep	•Meadows and seeps (Medws) •Marshes and swamps (MshSw) •Riparian forest (RpFr) •Vernal pools (VnPIs)/alkaline	5 - 435 meters	List 2.1