

**APPENDIX E - SPECIAL STATUS SPECIES  
DATABASE QUERY RESULTS**



**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: 081119103148

Database Last Updated: September 11, 2008

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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*

vernal pool tadpole shrimp (E)

Fish

*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)

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)

Plants

*Calystegia stebbinsii*

Stebbins's morning-glory (E)

*Ceanothus roderickii*

Pine Hill ceanothus (E)

*Fremontodendron californicum ssp. decumbens*

Pine Hill flannelbush (E)

*Galium californicum ssp. sierrae*

El Dorado bedstraw (E)

*Orcuttia viscida*

Critical habitat, Sacramento Orcutt grass (X)

Sacramento Orcutt grass (E)

*Senecio layneae*

Layne's butterweed (=ragwort) (T)

#### Quads Containing Listed, Proposed or Candidate Species:

CLARKSVILLE (511A)

FOLSOM (511B)

CITRUS HEIGHTS (512A)

AUBURN (527A)

GOLD HILL (527B)

ROCKLIN (527C)

PILOT HILL (527D)

LINCOLN (528A)

ROSEVILLE (528D)

California Department of Fish and Game  
 Natural Diversity Database  
 Selected Elements by Common Name - Landscape

Common Name	Scientific Name	Element Code	Federal Status	State Status	Global Rank	State Rank	CNPS	CDFG
1 A vernal pool andrenid bee	<i>Andrena subapasta</i>	IIHYM35050			G1G3	S1S3		
2 Ahart's dwarf rush	<i>Juncus leiospermus</i> var. <i>ahartii</i>	PMJUN011L1			G2T1	S1.2	1B.2	
3 Alabaster Cave harvestman	<i>Banksula californica</i>	ILARA14020			GH	SH		
4 Alkali Meadow	Alkali Meadow	CTT45310CA			G3	S2.1		
5 Alkali Seep	Alkali Seep	CTT45320CA			G3	S2.1		
6 Bisbee Peak rush-rose	<i>Helianthemum suffrutescens</i>	PDCIS020F0			G2Q	S2.2	3.2	
7 Blennosperma vernal pool andrenid bee	<i>Andrena blennospermatis</i>	IIHYM35030			G2	S2		
8 Boggs Lake hedge-hyssop	<i>Gratiola heterosepala</i>	PDSCR0R060		Endangered	G3	S3.1	1B.2	
9 Brandegees' clarkia	<i>Clarkia biloba</i> ssp. <i>brandegeae</i>	PDONA05053			G4G5T2	S2.2	1B.2	
10 Butte County fritillary	<i>Fritillaria eastwoodiae</i>	PMLIL0V060			G3Q	S3.2	3.2	
11 California black rail	<i>Laterallus jamaicensis coturniculus</i>	ABNME03041		Threatened	G4T1	S1		
12 California linderiella	<i>Linderiella occidentalis</i>	ICBRA06010			G3	S2S3		
13 California red-legged frog	<i>Rana draytonii</i>	AAABH01022	Threatened		G4T2T3	S2S3		SC
14 Cooper's hawk	<i>Accipiter cooperii</i>	ABNKC12040			G5	S3		
15 El Dorado County mule ears	<i>Wyethia reticulata</i>	PDAST9X0D0			G2	S2.2	1B.2	
16 El Dorado bedstraw	<i>Galium californicum</i> ssp. <i>sierrae</i>	PDRUB0N0E7	Endangered	Rare	G5T1	S1.2	1B.2	
17 Galile's cave harvestman	<i>Banksula galilei</i>	ILARA14040			G1	S1		
18 Hartweg's golden sunburst	<i>Pseudobahia bahiifolia</i>	PDAST7P010	Endangered	Endangered	G2	S2.1	1B.1	
19 Jepson's onion	<i>Allium jepsonii</i>	PMLIL022V0			G1	S1.2	1B.2	
20 Layne's ragwort	<i>Packera layneae</i>	PDAST8H1V0	Threatened	Rare	G2	S2.1	1B.2	
21 Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA			G3	S3.1		
22 Northern Volcanic Mud Flow Vernal Pool	Northern Volcanic Mud Flow Vernal Pool	CTT44132CA			G1	S1.1		
23 Pine Hill ceanothus	<i>Ceanothus roderickii</i>	PDRHA04190	Endangered	Rare	G2	S2.1	1B.2	
24 Pine Hill flannelbush	<i>Fremontodendron decumbens</i>	PDSTE03030	Endangered	Rare	G1	S1.2	1B.2	
25 Red Bluff dwarf rush	<i>Juncus leiospermus</i> var. <i>leiospermus</i>	PMJUN011L2			G2T2	S2.2	1B.1	
26 Red Hills soaproot	<i>Chlorogalum grandiflorum</i>	PMLIL0G020			G2	S2.2	1B.2	
27 Ricksecker's water scavenger beetle	<i>Hydrochara rickseckeri</i>	IICOL5V010			G1G2	S1S2		
28 Sacramento orcutt grass	<i>Orcuttia viscida</i>	PMPOA4G070	Endangered	Endangered	G1	S1.1	1B.1	
29 Sanford's arrowhead	<i>Sagittaria sanfordii</i>	PMALI040Q0			G3	S3.2	1B.2	
30 Stebbins' morning-glory	<i>Calystegia stebbinsii</i>	PDCON040H0	Endangered	Endangered	G1	S1.1	1B.1	
31 Swainson's hawk	<i>Buteo swainsoni</i>	ABNKC19070		Threatened	G5	S2		
32 Townsend's big-eared bat	<i>Corynorhinus townsendii</i>	AMACC08010			G4	S2S3		SC
33 Valley Needlegrass Grassland	Valley Needlegrass Grassland	CTT42110CA			G1	S3.1		
34 bald eagle	<i>Haliaeetus leucocephalus</i>	ABNKC10010	Delisted	Endangered	G5	S2		

California Department of Fish and Game  
 Natural Diversity Database  
 Selected Elements by Common Name - Landscape

Common Name	Scientific Name	Element Code	Federal Status	State Status	Global Rank	State Rank	CNPS	CDFG
35 bank swallow	Riparia riparia	ABPAU08010		Threatened	G5	S2S3		
36 big-scale balsamroot	Balsamorhiza macrolepis var. macrolepis	PDAST11061			G3G4T2	S2.2	1B.2	
37 burrowing owl	Athene cunicularia	ABNSB10010			G4	S2		SC
38 double-crested cormorant	Phalacrocorax auritus	ABNFD01020			G5	S3		
39 dwarf downingia	Downingia pusilla	PDCAM060C0			G3	S3.1	2.2	
40 grasshopper sparrow	Ammodramus savannarum	ABPBXA0020			G5	S2		SC
41 great blue heron	Ardea herodias	ABNGA04010			G5	S4		
42 great egret	Ardea alba	ABNGA04040			G5	S4		
43 hispid bird's-beak	Cordylanthus mollis ssp. hispidus	PDSCR0J0D1			G2T2	S2.1	1B.1	
44 legenere	Legenere limosa	PDCAM0C010			G2	S2.2	1B.1	
45 merlin	Falco columbarius	ABNKD06030			G5	S3		
46 northwestern pond turtle	Actinemys marmorata marmorata	ARAAD02031			G3G4T3	S3		SC
47 oval-leaved viburnum	Viburnum ellipticum	PDCPR07080			G5	S2.3	2.3	
48 pallid bat	Antrozous pallidus	AMACC10010			G5	S3		SC
49 pincushion navarretia	Navarretia myersii ssp. myersii	PDPLM0C0X1			G1T1	S1.1	1B.1	
50 purple martin	Progne subis	ABPAU01010			G5	S3		SC
51 silver-haired bat	Lasiorycteris noctivagans	AMACC02010			G5	S3S4		
52 stinkbells	Fritillaria agrestis	PMLIL0V010			G3	S3.2	4.2	
53 tight coin (=Yates' snail)	Ammonitella yatesii	IMGASB0010			G1	S1		
54 tricolored blackbird	Agelaius tricolor	ABPBXB0020			G2G3	S2		SC
55 valley elderberry longhorn beetle	Desmocerus californicus dimorphus	IICOL48011	Threatened		G3T2	S2		
56 vernal pool fairy shrimp	Branchinecta lynchi	ICBRA03030	Threatened		G3	S2S3		
57 vernal pool tadpole shrimp	Lepidurus packardii	ICBRA10010	Endangered		G3	S2S3		
58 western pond turtle	Actinemys marmorata	ARAAD02030			G3G4	S3		SC
59 western spadefoot	Spea hammondii	AAABF02020			G3	S3		SC
60 white-tailed kite	Elanus leucurus	ABNKC06010			G5	S3		

Status: search results - Wed, Nov. 19, 2008 09:00 c

{QUADS\_123} = ~ m/527C|511A|511B|528D|528A|512A|527D|527/ Search

Tip: Words meant to be searched as a unit should be wrapped in quotes, e.g., "coastal dunes". [all tips and help.] [search history]

**Your Quad Selection:** Rocklin (527C) 3812172, Clarksville (511A) 3812161, Folsom (511B) 3812162, Roseville (528D) 3812173, Lincoln (528A) 3812183, Citrus Heights (512A) 3812163, Pilot Hill (527D) 3812171, Auburn (527A) 3812181, Gold Hill (527B) 3812182

Hits 1 to 24 of 24

Requests that specify topo quads will return only Lists 1-3.

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



















ADD checked items to Plant Press

check all

check none

Selections will appear in a new window.

open	save	hits	scientific	common	family	CNPS
	<input type="checkbox"/>	1	<b>Allium jepsonii</b>	Jepson's onion	Liliaceae	List 1B.2
	<input type="checkbox"/>	1	<b>Balsamorhiza macrolepis</b> var. <b>macrolepis</b>	big-scale balsamroot	Asteraceae	List 1B.2
	<input type="checkbox"/>	1	<b>Calystegia stebbinsii</b>	Stebbins' morning-glory	Convolvulaceae	List 1B.1
	<input type="checkbox"/>	1	<b>Ceanothus roderickii</b>	Pine Hill ceanothus	Rhamnaceae	List 1B.2
	<input type="checkbox"/>	1	<b>Chlorogalum grandiflorum</b>	Red Hills soaproot	Liliaceae	List 1B.2
	<input type="checkbox"/>	1	<b>Clarkia biloba</b> ssp. <b>brandegeae</b>	Brandegee's clarkia	Onagraceae	List 1B.2
	<input type="checkbox"/>	1	<b>Cordylanthus mollis</b> ssp. <b>hispidus</b>	hispid bird's- beak	Scrophulariaceae	List 1B.1
	<input type="checkbox"/>	1	<b>Downingia pusilla</b>	dwarf downingia	Campanulaceae	List 2.2
	<input type="checkbox"/>	1	<b>Fremontodendron decumbens</b>	Pine Hill flannelbush	Sterculiaceae	List 1B.2
	<input type="checkbox"/>	1	<b>Fritillaria eastwoodiae</b>	Butte County fritillary	Liliaceae	List 3.2
	<input type="checkbox"/>	1	<b>Galium californicum</b> ssp. <b>sierrae</b>	El Dorado bedstraw	Rubiaceae	List 1B.2
	<input type="checkbox"/>	1	<b>Gratiola heterosepala</b>	Boggs Lake hedge-hyssop	Scrophulariaceae	List 1B.2
	<input type="checkbox"/>	1	<b>Helianthemum suffrutescens</b>	Bisbee Peak rush-rose	Cistaceae	List 3.2
	<input type="checkbox"/>	1	<b>Juncus leiospermus</b> var. <b>ahartii</b>	Ahart's dwarf rush	Juncaceae	List 1B.2
			<b>Juncus leiospermus</b> var.	Red Bluff dwarf		List

	<input type="checkbox"/>	1	<b>leiospermus</b> 	rush	Juncaceae	1B.1
	<input type="checkbox"/>	1	<b>Lathyrus sulphureus var. argillaceus</b>	dubious pea	Fabaceae	List 3
	<input type="checkbox"/>	1	<b>Legenere limosa</b> 	legenere	Campanulaceae	List 1B.1
	<input type="checkbox"/>	1	<b>Navarretia myersii ssp. myersii</b> 	pincushion navarretia	Polemoniaceae	List 1B.1
	<input type="checkbox"/>	1	<b>Orcuttia viscida</b> 	Sacramento Orcutt grass	Poaceae	List 1B.1
	<input type="checkbox"/>	1	<b>Packera layneae</b>	Layne's ragwort	Asteraceae	List 1B.2
	<input type="checkbox"/>	1	<b>Pseudobahia bahiifolia</b> 	Hartweg's golden sunburst	Asteraceae	List 1B.1
	<input type="checkbox"/>	1	<b>Sagittaria sanfordii</b> 	Sanford's arrowhead	Alismataceae	List 1B.2
	<input type="checkbox"/>	1	<b>Viburnum ellipticum</b> 	oval-leaved viburnum	Caprifoliaceae	List 2.3
	<input type="checkbox"/>	1	<b>Wyethia reticulata</b> 	El Dorado County mule ears	Asteraceae	List 1B.2

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

ADD checked items to Plant Press

check all

check none

Selections will appear in a new window.

No more hits.





# SPECIAL-STATUS SPECIES POTENTIALLY OCCURRING IN THE PLANNING AREA

**TABLE A-1 SPECIAL-STATUS PLANT SPECIES POTENTIALLY OCCURRING WITHIN THE PLANNING AREA**

Scientific Name Common Name	Status			Habitat Description <sup>4</sup>	Considered in Impact Analysis	Rationale
	Federal <sup>1</sup>	State <sup>2</sup>	CNPS <sup>3</sup>			
<b>Plants</b>						
Ahart's dwarf rush <i>Juncus leiospermus</i> var. <i>ahartii</i>	~	~	1B	Found on margins of vernal pools. Blooming period: March-May Elevation: 30-229 meters	Yes	Suitable habitat is present within the Planning Area. There is one recorded occurrence within five miles of the Planning Area.
big-scale balsamroot <i>Balsamorhiza macrolepis</i> var. <i>macrolepis</i>	~	~	1B	Foothill woodland and grassland communities. Blooming period: March-June Elevation: 90-1,400 meters	Yes	Suitable habitat is present within the Planning Area. There are three recorded occurrences within five miles of the Planning Area.
Bisbee Peak rush-rose <i>Helianthemum suffrutescens</i>	~	~	3	Chaparral, often on serpentinite, gabbroic, or lone soil. Blooming period: April-June Elevation: 45-840 meters	No	Suitable habitat is not present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.
Boggs Lake hedge-hyssop <i>Gratiola heterosepala</i>	~	SE	1B	Vernal pools, receding margins of desiccating stock ponds, lakes, and reservoirs. Blooming period: April – August Elevation: 10-2,375 meters	Yes	Suitable habitat is present within the Planning Area. There are two recorded occurrences within five miles of the Planning Area.
Brandegee's clarkia <i>Clarkia biloba</i> ssp. <i>brandegeae</i>	~	~	1B	Chaparral, cismontane woodland (often roadcuts). Threatened by road maintenance, fire suppression, and weed control measures. Possibly threatened by erosion. Blooming period: May-July Elevation: 73-915 meters	Yes	Suitable habitat is present within the Planning Area. There are two recorded occurrences within five miles of the Planning Area.

Scientific Name Common Name	Status			Habitat Description <sup>4</sup>	Considered in Impact Analysis	Rationale
	Federal <sup>1</sup>	State <sup>2</sup>	CNPS <sup>3</sup>			
Butte County fritillary <i>Fritillaria eastwoodiae</i>	~	~	3	This species inhabits chaparral, cismontane woodland, lower montane coniferous forest (openings), and sometimes on serpentinite soils. Blooming period: March-June Elevation: 50-1,500 meters	No	Suitable habitat is present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.
Dwarf downingia <i>Downingia pusilla</i>	~	~	2	Vernal lake and pool margins, with a variety of associates. Blooming period: March – May Elevation: 1-445 meters	Yes	Suitable habitat is present within the Planning Area. There are eleven recorded occurrences within five miles of the Planning Area.
El Dorado County mule ears <i>Wyethia reticulata</i>	~	~	1B	Chaparral, cismontane woodland, and lower montane coniferous forest on clay or gabbroic soils. Blooming period: April – August Elevation: 185-630 meters	No	Suitable habitat is not present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.
El Dorado bedstraw <i>Galium californicus</i> ssp. <i>sierrae</i>	FE	CR	1B	Chaparral, cismontane woodland, and lower montane coniferous forest on gabbroic soils. Blooming period: May – June Elevation: 100-585 meters	No	Suitable habitat is not present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.
Hartweg's golden sunburst <i>Pseudobahia bahiifolia</i>	FE	SE	1B	Adobe clay soils in cismontane woodland, and valley and foothill grassland habitats. Blooming period: March – April Elevation: 15-150 meters	No	Suitable habitat is not present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.
Hispid bird's-beak <i>Cordylanthus mollis</i> ssp. <i>hispidus</i>	~	~	2	Meadows and seeps, playas, and valley and foothill grassland on alkaline soils. Blooming period: June – September Elevation: 1-155 meters	Yes	Suitable habitat is present within the Planning Area. There is one recorded occurrence within five miles of the Planning Area.
Jepson's onion <i>Allium jepsonii</i>	~	~	1B	Chaparral, cismontane woodland, and lower montane coniferous forest on serpentinite or volcanic soils. Blooming period: April – August Elevation: 300-1320 meters	No	Suitable habitat is not present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.

Scientific Name Common Name	Status			Habitat Description <sup>4</sup>	Considered in Impact Analysis	Rationale
	Federal <sup>1</sup>	State <sup>2</sup>	CNPS <sup>3</sup>			
Layne's ragwort <i>Packera layneae</i>	FT	CR	1B	Chaparral and cismontane woodland on serpentinite or gabbroic, rocky soils. Blooming period: April – August Elevation: 200-1000 meters	No	Suitable habitat is not present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.
Legenere <i>Legenere limosa</i>	~	~	1B	Vernal pools, perennial sloughs, and ponds. Blooming period: April – June Elevation: 1-880	Yes	Suitable habitat is present within the Planning Area. There are three recorded occurrences within five miles of the Planning Area, one of which is within one mile of the Planning Area.
Oval-leaved viburnum <i>Viburnum ellipticum</i>	~	~	2	Chaparral, cismontane woodland, and lower montane coniferous forest. Blooming period: May – June Elevation: 215-1,400	No	Suitable habitat is present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.
Pincushion navarretia <i>Navaretia myersii</i>	~	~	1B	Moist areas and vernal pools. Blooming period: May Elevation: 20-330	Yes	Suitable habitat is present within the Planning Area. There is one recorded occurrence within one mile of the Planning Area.
Pine Hill ceanothus <i>Ceanothus roderickii</i>	FE	CR	1B	Chaparral and cismontane woodland on serpentinite or gabbroic soils. Blooming period: April – June Elevation: 260-630	No	Suitable habitat is not present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.
Pine Hill flannelbush <i>Fremontodendron decumbens</i>	FE	CR	1B	This species inhabits chaparral, cismontane woodland, among gabbroic, serpentinite or rocky soils. Blooming period: April-July Elevation: 425-760 meters	No	Suitable habitat is not present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.
Red Bluff dwarf rush <i>Juncus leiospermus</i> var. <i>leiospermus</i>	~	~	1B	Annual herb found on vernal mesic sites within chaparral, valley and foothill grassland, cismontane woodlands. Sometimes on edges of vernal pools. Blooming period: March – May Elevation: 30 - 100 meters	Yes	Suitable habitat is present within the Planning Area. There is one recorded occurrence within five miles of the Planning Area.
Red Hills soaproot	~	~	1B	This species inhabits chaparral, cismontane	No	Suitable habitat is not present within

Scientific Name Common Name	Status			Habitat Description <sup>4</sup>	Considered in Impact Analysis	Rationale
	Federal <sup>1</sup>	State <sup>2</sup>	CNPS <sup>3</sup>			
<i>Chlorogalum grandiflorum</i>				woodland, lower montane coniferous forest; among serpentinite and gabbroic soils. Blooming period: May-June Elevation: 245-1,170 meters		the Planning Area. There are no recorded occurrences within five miles of the Planning Area, one of which is within the Planning Area.
Sacramento orcutt grass <i>Orcuttia viscida</i>	FE	SE	1B	Vernal pools. Blooming period: April – July Elevation: 30-100 meters	No	Suitable habitat is within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.
Sanford's arrowhead <i>Sagittaria sanfordii</i>	~	~	1B	Marshes and swamps (assorted shallow freshwater). Blooming period: May – October Elevation: 0-650 meters	Yes	Suitable habitat is present within the Planning Area. There are three recorded occurrences within five miles of the Planning Area.
Stebbins' morning-glory <i>Calystegia stebbinsii</i>	FE	SE	1B	This species inhabits chaparral (openings), cismontane woodland, gabbroic or serpentinite soils. Blooming period: April-July Elevation: 185-730 meters	No	Suitable habitat is not present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.

#### CODE DESIGNATIONS

<sup>1</sup> Federal status: 2008 USFWS Listing	<sup>2</sup> State status: 2008 CDFG Listing	<sup>3</sup> CNPS: 2008 CNPS Listing
<b>FE</b> = Listed as endangered under the Endangered Species Act	<b>SE</b> = Listed as endangered under the California Endangered Species Act	<b>1A</b> = Plants species that presumed extinct in California.
<b>FT</b> = Listed as threatened under the Endangered Species Act	<b>ST</b> = Listed as threatened under the California Endangered Species Act	<b>1B</b> = Plant species that are rare, threatened, or endangered in California and elsewhere.
	<b>CSC</b> = Species of Concern as identified by CDFG	<b>List 2</b> = Plant species that are rare, threatened, or endangered in California, but more common elsewhere.
	<b>CR</b> = Species identified as rare by CDFG	
		<b>List 3</b> = Plant species about which need more information.
		<b>List 4</b> = Plant species of limited distribution.
<sup>4</sup> Habitat description: Habitat description information adapted from CNDDDB (CDFG 2008), CNPS (2008) and <a href="http://www.natureserve.org">www.natureserve.org</a>		

**TABLE A-2 SPECIAL-STATUS ANIMAL SPECIES POTENTIALLY OCCURRING WITHIN THE PLANNING AREA**

Common Name ( <i>Scientific Name</i> )	Status		Habitat Description <sup>3</sup>	Considered in Impact Analysis	Rationale
	Federal <sup>1</sup>	State <sup>2</sup>			
<b>Invertebrates</b>					
Conservancy fairy shrimp <i>Branchinecta conservatio</i>	FE	~	Inhabits rather large, cool-water vernal pools with moderately turbid water. They have been collected from early November to early April.	No	Suitable habitat is not present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.
valley elderberry longhorn beetle <i>Desmocerus californicus dimorphus</i>	FT	~	Occurs in association with elderberry shrubs ( <i>Sambucus</i> spp.).	Yes	Suitable habitat is present within the Planning Area. There are six recorded occurrences within five miles of the Planning Area.
vernal pool fairy shrimp <i>Branchinecta lynchi</i>	FT	~	Occupies a variety of different vernal pool habitats, from small, clear, sandstone rock pools to large, turbid, alkaline, grassland valley floor pools. Although the species has been collected from large vernal pools, including one exceeding 25 acres, it tends to occur in smaller pools. It is most frequently found in pools measuring less than 0.05 acre most commonly in grass or mud bottomed swales, or basalt flow depression pools in unplowed grasslands.	Yes	Suitable habitat is present within the Planning Area. There are 35 recorded occurrences within five miles of the Planning Area.
vernal pool tadpole shrimp <i>Lepidurus packardii</i>	FE	~	Occurs in vernal pools and other seasonal freshwater habitats.	Yes	Suitable habitat is present within the Planning Area. There is one recorded occurrence within five miles of the Planning Area.
<b>Fish</b>					
Chinook salmon Central Valley spring-run ESU <i>Oncorhynchus tshawytscha</i>	FT	ST	Few wild spawning populations remain in the Sacramento River system, California; extirpated in San Joaquin River drainage. This ESU includes chinook salmon entering the Sacramento River from March to July	No	Suitable habitat is not present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.

Common Name ( <i>Scientific Name</i> )	Status		Habitat Description <sup>3</sup>	Considered in Impact Analysis	Rationale
	Federal <sup>1</sup>	State <sup>2</sup>			
			and spawning from late August through early October. Historically, this ESU was the dominant run in the Sacramento and San Joaquin river basins, but native populations in the San Joaquin River apparently all have been extirpated.		
Chinook salmon Sacramento River winter- run ESU <i>Oncorhynchus</i> <i>tshawytscha</i>	FE	SE	Spawns primarily in the mainstem of the Sacramento River immediately downstream of Keswick Dam and below the historic spawning grounds downstream from Shasta Reservoir; most suitable spawning areas are between the Red Bluff Diversion Dam and Keswick Dam. Migrates through the Sacramento River, Delta, and San Pablo and San Francisco bays to nonbreeding habitat in the Pacific Ocean. Some juveniles rear non-natally for brief periods in lower reaches of tributaries.	No	Suitable habitat is not present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.
<i>Hypomesus transpacificus</i> Delta smelt	FT	ST	Located exclusively in the Sacramento-San Joaquin Delta. They have been found as far upstream as the mouth of the American River on the Sacramento River and Mossdale on the San Joaquin River. They extend downstream as far as San Pablo Bay. Delta smelt are found in brackish water. They usually inhabit salinity ranges of less than 2 parts per thousand (ppt) and are rarely found at salinities greater than 14ppt.	No	Suitable habitat is not present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.
<i>Oncorhynchus mykiss</i> <i>irideus</i> Steelhead Central Valley ESU	FT	~	Spawns in the Sacramento and San Joaquin rivers and their tributaries; now extirpated from most of historical range; the majority of native, natural production occurs in upper Sacramento River tributaries below Red Bluff Diversion Dam.	Yes	Suitable habitat is present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.
<b>Amphibians</b>					

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California red-legged frog <i>Rana aurora draytonii</i>	FT	CSC	Lowlands and foothill streams, pool, and marshes in or near permanent or late season sources of deep water with dense, shrubby, riparian, or emergent vegetation (e.g. ponds, perennial drainages, well-developed riparian) below 3,936 ft. in elevation. Breeds late December to early April.	Yes	Suitable habitat is present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.
<i>Ambystoma californiense</i> California tiger salamander	FT	CSC	Typically found in annual grasslands of lower hills and valleys; breeds in temporary and permanent ponds and in streams; uses rodent burrows and other subterranean retreats in surrounding uplands for shelter; appears to be absent in waters containing predatory game fish. The California tiger salamander spends most of its lifecycle estivating underground in adjacent valley oak woodland or grassland habitat, primarily in abandoned rodent burrows. Research has shown that dispersing juveniles can roam up to two miles from their breeding ponds and that a minimum of several hundred acres of uplands habitat is needed surrounding a breeding pond in order for the species to survive over the long term.	No	Suitable habitat is not present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.
western spadefoot <i>Spea hammondi</i>	~	CSC	Partly shaded, shallow streams and riffles with a rocky substrate in various habitats, with adjacent sunny banks or open woodlands. Breeding season begins mid-March to May.	Yes	Suitable habitat is present within the Planning Area. There are five recorded occurrences within five miles of the Planning Area.
<b>Reptiles</b>					
giant garter snake <i>Thamnophis gigas</i>	FT	ST	Agricultural wetlands and other wetlands such as irrigation and drainage canals, low gradient streams, marshes, ponds, sloughs, small lakes, and their associated uplands.	No	Suitable habitat is not present within the Planning Area. There are no recorded occurrences within five miles

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			Upland habitat should have burrows or other soil crevices suitable for snakes to reside during their dormancy period (November – mid March).		of the Planning Area.
northwestern pond turtle <i>Actinemys marmorata marmorata</i>	~	CSC	The western pond turtle includes two subspecies, the northwestern pond turtle ( <i>Actinemys marmorata marmorata</i> ) and the southwestern pond turtle ( <i>Actinemys marmorata pallida</i> ). The two subspecies range is interconnected within and around the San Francisco Bay Area. Permanent or nearly permanent water in various habitats (e.g. ponds, streams, perennial drainages). Requires basking sites particularly in areas vegetated with riparian habitats.	Yes	Suitable habitat is present within the Planning Area. There are three recorded occurrences within five miles of the Planning Area.
<b>Birds</b>					
FALCONIFORMES (hawks, falcons)					
bald eagle <i>Haliaeetus leucocephalus</i>	FD	SE	Nesting restricted to the mountainous habitats near permanent water sources in the northernmost counties of California, the Central Coast Region, and on Santa Catalina Island. Winters throughout most of California at lakes, reservoirs, river systems, and coastal wetlands.	No	Suitable habitat is not present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.
Swainson's hawk <i>Buteo swainsoni</i>		ST	Nests in isolated trees or riparian woodlands adjacent to suitable foraging habitat (agricultural fields, grasslands, etc.).	Yes	Suitable habitat is present within the Planning Area. There are four recorded occurrences within five miles of the Planning Area.
white-tailed kite <i>Elanus leucurus</i>		CFP	Nests in isolated trees or woodland areas with suitable open foraging habitat.	Yes	Suitable habitat is present within the Planning Area. There are three recorded occurrences within five miles of the Planning Area.
GRUIFORMES (rails, cranes)					



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California black rail <i>Laterallus jamaicensis coturniculus</i>		ST; CFP	Wetlands, marshes, thickets with recent sightings in near oak foothill woodlands in eastern Yuba County. Nests with eggs have been documented from March to June.	Yes	Plan Area is within the known distribution of the species.
PASSERIFORMES (perching birds)					
bank swallow <i>Riparia riparia</i>		ST	Primarily riparian and other lowland habitats in California. In summer, restricted to riparian, lacustrine, and coastal areas with vertical banks, bluffs, and cliffs with fine-textured or sandy soils for nesting holes. Breeds early May to July.	No	Suitable habitat is not present within the Planning Area. There are no recorded occurrences within five miles of the Planning Area.
grasshopper sparrow <i>Ammodramus savannarum</i>		CSC	An uncommon and local, summer resident and breeder in foothills and lowlands west of the Cascade-Sierra Nevada crest from Mendocino and Trinity cos. south to San Diego Co. Occurs in dry, dense grasslands, especially those with a variety of grasses and tall forbs and scattered shrubs for singing perches. Breeds from early April to mid-July.	Yes	Suitable habitat is present within the Planning Area. There is one recorded occurrence within five miles of the Planning Area.
purple martin <i>Progne subis</i>		CSC	An uncommon to rare, local summer resident in a variety of wooded, low-elevation habitats throughout the state; a rare migrant in spring and fall, absent in winter. Uses valley foothill and montane hardwood, valley foothill and montane hardwood-conifer, and riparian habitats. Also occurs in coniferous habitats, including closed-cone pine-cypress, ponderosa pine, Douglas-fir, and redwood. Nests from April into August.	No	Planning area is outside distribution of the species.
tri-colored blackbird <i>Agelaius tricolor</i>		CSC	Nests in dense blackberry, cattail, tules, willow, or wild rose within emergent wetlands throughout the Central Valley and foothills surrounding the valley.	Yes	Suitable habitat is present within the Planning Area. There are two recorded occurrences within five miles of the Planning Area.

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STRIGIFORMES (owls)					
<i>Athene cunicularia hypugea</i> Western burrowing owl	~	CSC	Open grasslands and shrublands up to 5,300 ft with low perches and small mammal burrows. Resident year-round. Breeds March through August.	Yes	Suitable habitat is present within the Planning Area. There are two recorded occurrences within five miles of the Planning Area.
<b>Mammals</b>					
pallid bat <i>Antrozous pallidus</i>	~	CSC	Pallid bats roost in rock crevices, tree hollows, mines, caves, and a variety of anthropogenic structures, including vacant and occupied buildings and buildings, mines, and natural caves are utilized as roosts. Occurrence is primarily in arid habitats. Colonies are usually small and may contain 12-100 bats.	Yes	Suitable habitat is present within the Planning Area. There is one recorded occurrence within five miles of the Planning Area.
silver-haired bat <i>Lasionycteris noctivagans</i>	~	~	Prefers forested (frequently coniferous) areas adjacent to lakes, ponds, and streams. Summer roosts and nursery sites are in tree foliage, cavities, or under loose bark, sometimes in buildings.	No	Suitable habitat is present within the Planning Area. There is one recorded occurrence within five miles of the Planning Area.
Townsend's big-eared bat <i>Corynorhinus townsendii</i>	~	CSC	These bats hibernate in caves or mines where the temperature is 12°C (54°F) or less, but usually above freezing. Hibernation sites in caves often are near entrances in well-ventilated areas. They hibernate in clusters of a few to more than 100 individuals. Maternity colonies usually are located in relatively warm parts of caves. No long-distance migrations are known. Like many other bats, they return year after year to the same roost sites. They are found in western Canada, the western United States to southern Mexico, and a few isolated populations in the eastern United States.	Yes	Suitable habitat is present within the Planning Area. There is one recorded occurrence within five miles of the Planning Area.

**CODE DESIGNATIONS**

<b><sup>1</sup>Federal status: 2008 USFWS Listing</b>	<b><sup>2</sup>State status: 2008 CDFG Listing</b>
<b>ESU</b> = Evolutionary Significant Unit (a distinctive population).	<b>SE</b> = Listed as endangered under the California Endangered Species Act (CESA).
<b>FE</b> = Listed as endangered under the Federal Endangered Species Act (FESA).	<b>ST</b> = Listed as threatened under the CESA.
<b>FT</b> = Listed as threatened under the FESA.	<b>CSC</b> = Species of Concern as identified by the CDFG.
<b>FD</b> = Delisted in accordance with the FESA.	<b>CFP</b> = Listed as fully protected under CDFG code.
<b><sup>3</sup>Habitat description:</b> Habitat description information adapted from CNDDDB (CDFG 2008) and <a href="http://www.natureserve.org">www.natureserve.org</a>	