

Appendix G

Special Status Species Information and Potential for Occurrence



Appendix G
The Erosion Repair of 13 Bank Protection Sites
Special Status Species Information and Potential for Occurrence

Scientific Name Common Name	Status ⁱ Federal/State/ CNPS/CDFG GRank/SRank ⁱⁱ	Habitat and Seasonal Distribution in California	Potential Occurrence at Erosion Sites ⁱⁱⁱ											Likelihood of Occurrence ^{iv}			
			SB 16.6R	CS 21.8R	Sac 16.8L	Sac 42.7R	Sac 49.7L	Sac 52.3L	Sac 53.5R	Sac 55.2L	Sac 77.2L	Sac 177.8R	LAR 0.3L		LAR 2.8L	F 28.5R	
Invertebrates																	
<i>Andrena blennospermatis</i> a vernal pool andrenid bee	-/-/ G2/S2	Northern California: Grassland habitat near vernal pools	2	2	2			2	2	2	2			2	2	Absent. The erosion sites do not provide suitable vernal pool (and adjacent grassland) habitat for this species.	
<i>Andrena subapasta</i> a vernal pool andrenid bee	-/-/ G1G3/S1S3	El Dorado, Placer, Sacramento, San Joaquin Counties: Grassland habitat near vernal pools				2		2	2		2			2	2	Absent. The erosion sites do not provide suitable vernal pool (and adjacent grassland) habitat for this species.	
<i>Anthicus antiochensis</i> Antioch Dunes anthicid beetle	-/-/ G1/S1	Along the Sacramento River: Interior sand dunes and sand bars – generally bare, unvegetated sand	2	2	2								2	2		2	Absent. The erosion sites do not provide suitable habitat (i.e., sand dunes and sand bars) for this species.
<i>Anthicus sacramento</i> Sacramento anthicid beetle	-/-/ G1/S1	Along San Joaquin, Sacramento, and Feather Rivers: Loose sands of interior sand dunes and sand bars; has also been found in dredge spoil heaps	2	2	2			2	2		2	2	2	2	2	2	Absent. The erosion sites do not provide suitable habitat (i.e., sand dunes, sand bars, and dredge spoil piles) for this species.

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<i>Apodemia mormo langei</i> Lange's metalmark butterfly	E/-/-	Antioch Sand Dunes: Sand dunes along the Sacramento-San Joaquin River	2															Absent. The erosion repair sites do not provide suitable sand dune habitat for this species.
<i>Branchinecta conservatio</i> conservancy fairy shrimp	E/-/-	Central Valley and southern coastal regions of California: Vernal Pools	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	Absent. The erosion sites do not provide suitable vernal pool habitat for this species.
<i>Branchinecta lynchi</i> vernal pool fairy shrimp	T/-/-	From Mount Shasta to Riverside County: Vernal Pools	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	Absent. The erosion sites do not provide suitable vernal pool habitat for this species.
<i>Branchinecta mesovallensis</i> midvalley fairy shrimp	-/-/ G2/S2	Central Valley: Shallow vernal pools, vernal swales, and artificial ephemeral wetland habitats	2	2	2	2	2	2	2	2				2	2			Absent. The erosion sites do not provide suitable vernal pool habitat for this species.
<i>Cicindela hirticollis abrupta</i> Sacramento Valley tiger beetle	-/-/ G5TH/SH	Throughout California: Sandy beaches – near fresh water	2	2		2	2	2	2	2	2			2			2	Absent. The erosion sites do not provide suitable sandy beach habitat for this species.
<i>Coelus gracilis</i> San Joaquin dune beetle	-/-/ G1-S1	Western edge of the San Joaquin Valley: Sand dunes in areas with hot summer climates	2															Absent. The erosion sites do not provide suitable sand dune habitat for this species.
<i>Danaus plexippus</i> monarch butterfly	-/-/ G5/S3	Throughout California: Open areas with milkweed, overwinters in forested areas	2	2														Low. No colonies of milkweed (<i>Asclepias</i> spp.) observed within erosion repair sites.

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<i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	T/-/-	Central Valley: Valley elderberry shrub	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	High. Suitable host plants (<i>Sambucus mexicana</i>) and potential exit holes observed at some erosion repair sites; see document for specific Erosion Site locations.	
<i>Dumontia oregonensis</i> a water flea	-/-/ G1G3/S1	Northern California Vernal pools and ditches	2	2	2		2	2		2			2	2	Absent. The erosion sites do not contain suitable aquatic habitats for this species.	
<i>Efferia antiochi</i> Antioch efferian robberfly	-/-/ G1G3/S1S3	Antioch, Fresno, and Scout Island: Sand dunes	2												Absent. The erosion sites do not provide suitable sand dune habitat for this species.	
<i>Elaphrus viridis</i> delta green ground beetle	T/-/-	Jepson Prairie area in south- central Solano County: Grassland-playa pool matrix	1 / 2	1 / 2	1	1	1	1		1			1	1	Absent. The erosion sites do not provide suitable grassland and playa pool habitat for this species.	
<i>Eucerceris ruficeps</i> redheaded sphecid wasp	-/-/ G1G3/S1S2	Throughout California: Sand dunes	2												Absent. The erosion sites do not provide suitable sand dune habitat for this species.	
<i>Hydrochara rickseckeri</i> Ricksecker's water scavenger beetle	-/-/ G1G2/S1S2	Jepson Prairie Preserve in Solano County: Weedy, shallow, open water of fresh water seeps, springs, farm ponds, vernal pools, and slow moving streams	2	2	2	2	2	2		2			2	2	Absent. The erosion sites do not support suitable habitat for this species.	
<i>Hygrotus curvipes</i> curved-foot hygrotus diving beetle	-/-/ G1/S1	Alameda and Contra Costa: Shallow, temporary pools	2	2											Absent. The erosion sites do not provide suitable shallow aquatic habitat for this species.	

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<i>Idiostatus middlekauffi</i> Middlekauff's shieldback katydid	-/-/ G1G2/S1	Contra Costa County: Native dune shrubs	2															Absent. The erosion sites do not provide suitable sand dune habitat for this species.
<i>Lepidurus packardi</i> vernal pool tadpole shrimp	E/-/-	Northern Central Valley: Vernal pools, swales, ephemeral drainages, stock ponds, reservoirs, ditches, pits and ruts	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	Absent. The erosion sites do not provide suitable aquatic habitat for this species.
<i>Linderiella occidentalis</i> California linderiella	-/-/ G3/S2S3	Throughout California: Seasonal pools in unplowed grasslands with alluvial soils underlain by hardpan or in sandstone depressions	2	2	2	2	2	2	2	2	2		2	2	2			Absent. The erosion sites do not provide suitable aquatic habitat for this species.
<i>Lytta molesta</i> molestan blister beetle	-/-/ G2/S2	Central California: Dried vernal pools				2			2									Absent. The erosion sites do not provide suitable vernal pool habitat for this species.
<i>Metapogon hurdi</i> Hurd's metapogon robberfly	-/-/ G1G3/S1S3	Antioch Dunes: Interior dunes	2															Absent. The erosion sites do not provide suitable dune habitat for this species.
<i>Myrmosula pacifica</i> Antioch multilid wasp	-/-/ GH/SH	Antioch Dunes: Interior dunes	2	2		2	2	2	2	2				2				Absent. The erosion sites do not provide suitable dune habitat for this species.
<i>Nothochrysa californica</i> San Francisco lacewing	-/-/ G1G3/S1S3	Throughout California: Grasslands	2	2														Absent. The erosion sites do not provide suitable grassland habitat for this species.
<i>Perdita scitula</i> <i>antiochenis</i> Antioch andrenid bee	-/-/ G1T1/S1	Antioch Dunes: Interior dunes	2		2													Absent. The erosion sites do not provide suitable dune habitat for this species.

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<i>Philanthus nasalis</i> Antioch specid wasp	-/-/ G1/S1	Antioch Dunes: Interior dunes	2														Absent. The erosion sites do not provide suitable dune habitat for this species.
<i>Saldula usingeri</i> Wilbur Springs shorebug	-/-/ G1/S1	Colusa County: Shores near water bodies	2	2													Low. While marginally suitable habitat may be present, the shorebug is known only from Colusa County.
<i>Speyeria callippe</i> <i>callippe</i> callippe silverspot butterfly	E/-/-	San Francisco Bay: Native grasslands	1	1													Absent. The erosion sites do not provide suitable grassland habitat for this species.
<i>Sphecodogastra</i> <i>antiochensis</i> Antioch Dunes halcetid bee	-/-/ G1/S1	Antioch Dunes: Interior dunes	2														Absent. The erosion sites do not provide suitable dune habitat for this species.
Fish																	
<i>Acipenser medirostris</i> Green sturgeon Southern DPS	T/-/-	Northern California: Anadromous. Sacramento and Lower Feather River	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1	High. The erosion sites along the Sacramento River provide suitable habitat for the southern distinct population segment of this species.
<i>Archoplites interruptus</i> Sacramento perch	-/-/SC	Sacramento-San Joaquin, Pajaro, and Salinas River drainages: Freshwater in temperate zones – sloughs, slow- moving rivers, lakes, reservoirs, and stock ponds	2		2	2	2	2		2					2	2	Low. The erosion sites within the lower reaches may provide marginally suitable habitat for this species.

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<i>Hypomesus transpacificus</i> Delta Smelt	T/CT/-	Sacramento-San Joaquin Estuary: Semi-anadromous. Moves into freshwater channels and sloughs of delta during spawning (December through January), found in the Sacramento River as far north as RM 51 in drought conditions	1 / 2	1 / 2	1 / 2	1	1 / 2	1 / 2	1 / 2	1 / 2	1	1 / 2	1 / 2	1 / 2	1	Moderate. The erosion sites are not within designated critical habitat for this species. Species could potentially utilize SB 16.6R, CS 21.8R, and Sac 16.8L during spawning.
<i>Oncorhynchus kisutch</i> Coho salmon Southern Oregon/Northern California ESU	T/-/SC	Accessible reaches of all rivers north of Mattole River: Anadromous. Juveniles in low-gradient coastal streams, lakes, sloughs, side channels, estuaries, low-gradient tributaries to large rivers, beaver ponds, and large slackwaters										1 / 3				Absent. Sac 177.8R is not within the known range of this Coho Salmon ESU.

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<i>Oncorhynchus kisutch</i> Coho salmon Central California coast ESU	E/CT/-	Central California: Anadromous. Critical habitat designated as all accessible reaches of rivers between Punta Gorda and San Lorenzo Rivers. Prefers low-gradient coastal streams, lakes, sloughs, side channels, estuaries, low-gradient tributaries to large rivers, beaver ponds, and large slackwaters for rearing	1 / 3	1 / 3														Low. Although suitable habitat for juveniles may be present at SB 16.6R and CS 21.8R, these sites lie outside the known range of this species.
<i>Oncorhynchus mykiss</i> Central California coastal steelhead	T/-/-	Throughout California: Anadromous. Coastal streams, marshes, estuaries, tributary streams	1 / 3	1 / 3														Low. Although suitable habitat may be present at SB 16.6R and CS 21.8R, these sites lie outside the known range of this species.
<i>Oncorhynchus mykiss</i> Central Valley steelhead	T/-/-	Throughout California: Anadromous and freshwater. Prefers deep low-velocity pools for wintering habitats. Widely distributed throughout the Sacramento River and tributaries	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	High. The erosion sites may provide suitable habitat, however the importance of the main channel and floodplain in the lower Sacramento River and Delta are currently not well understood.
<i>Oncorhynchus tshawytscha</i> Central Valley spring-run Chinook salmon	T/-/-	Throughout California: Anadromous. Sacramento River and tributaries	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	High. The erosion sites provide suitable habitat; all rivers and sloughs in the SRBBP action area are designated as critical habitat for this species.

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<i>Oncorhynchus tshawytscha</i> winter-run Chinook salmon	E/-/-	Throughout California: Anadromous. Prefers streams that are deep and large. Utilizes water column, river bottom, and riparian zone for rearing. Travels through delta and San Francisco Bay up the Sacramento River to RM 44.	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	1 / 3	High. The erosion sites in the delta and along the Sacramento River up to Sac 42.7R provide suitable habitat for this species.	
<i>Pogonichthys macrolepidotus</i> Sacramento splittail	-/-/SC	Central Valley: Primarily freshwater fish, tolerant of moderate salinity. Found in slow moving sections of rivers and in sloughs. Spawn in flooded areas of upper Delta (Feb - April).	2	2	2	2	2	2	2	2	2	2	2	2	Moderate. The erosion sites provide potentially suitable habitat for this species. Species formerly known to occur in rivers throughout the Central Valley and San Joaquin River Delta, now largely restricted to the Delta, Suisun Bay, Suisun Marsh, and Napa Marsh. CNDDDB occurrences within 5 miles of all sites except Sac 177.8R.	
Amphibians																
<i>Ambystoma californiense</i> California tiger salamander	T/-/SC	Throughout California: Grasslands, oak savanna, edges of mixed woodland and lower elevation coniferous forest	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	Absent. The erosion sites do not provide suitable breeding habitat (e.g., ephemeral wetlands, stock ponds) and suitable aestivation habitat (e.g., grasslands, oak woodlands) for this species.	

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<i>Rana aurora draytonii</i> California red-legged frog	T/-/-	Coast Range between Mendocino County and San Luis Obispo County; Sierra Nevada foothills: Dense, shrubby, or emergent riparian vegetation associated with deep, still, or slow moving water	1 / 2	1 / 2	1	1	1	1	1	1	1	1	1	1	1	1	Absent. Ponds favored for breeding. No recorded occurrences within the delta, along Sacramento, American, or Feather Rivers. There are no CNDDDB occurrences within 5 miles of any erosion sites.
<i>Rana boylei</i> foothill yellow-legged frog	-/-/SC	Coast Range and Sierra Nevada foothills: Shallow, slow, gravelly streams and rivers	2	2	2				2					2			Absent. Lack of suitable gravel substrates precludes the presence of this species within the various erosion sites.
<i>Spea hammondi</i> western spadefoot	-/-/SC	Throughout California: Grassland, scrub, and chaparral			2	2	2	2	2	2			2	2	2		Absent. The erosion sites do not provide suitable upland habitat for this species.
Reptiles																	
<i>Actinemys marmorata marmorata</i> northwestern pond turtle	-/-/SC	From San Francisco Bay north and west of the crest of the Cascades and Sierras: Ponds, lakes, rivers, streams, creeks, marshes, irrigation ditches with abundant vegetation and rocky or muddy bottoms	2	2	2	2	2	2	2	2	2	2	2	2	2	2	High. Suitable habitat present. CNDDDB occurrences to the east of Sac 16.8L and to the west of Sac 42.7R.

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<i>Anniella pulchra pulchra</i> silvery legless lizard	-/-/SC	Southern California: Warm, loose soil with plant cover in sparsely vegetated areas of beach dunes, chaparral, pine-oak woodlands, desert scrub, sandy washes, and stream terraces	2		2													Absent. The erosion sites are outside the known range of this species and do not provide suitable habitat.
<i>Masticophis lateralis euryxanthus</i> Alameda whipsnake	T/CT/-	East side of San Francisco Bay: Open areas in canyons, rocky hillsides, chaparral scrublands, open woodlands, pond edges, stream courses	1	1														Absent. The erosion sites do not provide suitable habitat and are outside the known range of this species.
<i>Thamnophis gigas</i> giant garter snake	T/CT/-	Central and San Joaquin Valleys: Agricultural wetlands, irrigation and drainage canals, sloughs, ponds, small lakes, low gradient streams, and adjacent uplands	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	1 / 2	Low. Requires emergent, herbaceous vegetation (cattails, bulrushes) for cover, grassy areas for basking, uplands for winter refuge.	
Birds																		
<i>Accipiter cooperii</i> Cooper's hawk	-/-/SC	Throughout California: Deciduous, mixed, coniferous forests. Requires open areas to hunt			2	2	2	2	2	2					2	2		Known. Observed in transit over Sac 52.3R. Suitable habitat may be present at other erosion sites.
<i>Accipiter gentilis</i> northern goshawk	-/-/SC	Throughout California: Middle and higher elevations, and mature, dense conifer forests.												2				Low. Erosion sites do not likely provide suitable habitat.

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<i>Agelaius tricolor</i> tricolored blackbird	-/-/SC	Central Valley: Seeks cover in emergent wetland vegetation, especially cattails and tules; also in trees and shrubs. Roosts in large flocks in emergent wetland or in trees	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Low. There is a recorded CNDDDB occurrence within between 1 and 5 miles of every erosion site except the delta sites (SB16.6R, CS 21.8R, Sac 16.8L). Despite these occurrences, there is a low likelihood of occurrence due to the lack of preferred wetland habitat.
<i>Ammodramus savannarum</i> grasshopper sparrow	-/-/ G5/S2	Throughout California: Dense, dry or well-drained grassland, especially native grassland with a mix of grasses and forbs for foraging and nesting. Uses scattered shrubs for singing perches	2	2	2	2	2	2	2	2			2	2		Absent. The erosion sites do not provide suitable grassland habitat for this species.	
<i>Aquila chrysaetos</i> golden eagle	-/CSC/-	Throughout highlands of California: Nests on secluded cliffs with overhanging ledges, large trees used for cover	2	2	2		2	2		2			2	2		Absent. The erosion sites do not provide suitable habitat for this species; there are no CNDDDB occurrences within 5 miles of any erosion site.	
<i>Ardea alba</i> great egret	-/-/ G5/S4	Throughout California: Wetlands, open fields, agricultural land, drainage ditches	2	2	2	2	2	2	2	2	2	2	2	2	2	Known. Observed at sites CS 21.8R, Sac 49.7L, 52.3L, 53.5R, and 177.8R, LAR 2.8L, and F 28.5R. Other sites likely provide suitable foraging habitat for this species.	

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<i>Ardea herodias</i> great blue heron	-/-/ G5/S4	Throughout California: Fresh and saltwater marshes, mangrove swamps, flooded meadows, lake edges, shorelines	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Known. Observed at sites Sac 42.7R, and 177.8R. Other sites likely provide suitable foraging habitat for this species.
<i>Asio flammeus</i> short-eared owl	-/-/SC	Throughout California: Open, treeless areas with elevated sites for perches, and dense vegetation for roosting and nesting	2	2													Absent. The erosion sites do not provide suitable habitat; there are no CNDDDB occurrences within 5 miles of SB 16.8R or CS 21.8R.
<i>Athene cunicularia</i> burrowing owl	-/-/SC	Throughout California: Dry, open areas with low vegetation	2	2	2	2	2	2	2	2	2	2	2	2	2	2	High. The erosion sites may provide suitable habitat for this species. No evidence of whitewash, feathers, pellets, etc. was observed around burrows identified during field surveys within the erosion sites.
<i>Branta hutchinsii</i> Aleutian Canada goose	D/-/-	Throughout California: Elevated areas near water, tundra, lacustrine, fresh emergent wetlands, and moist grasslands, croplands, pastures, and meadows.											2			2	Absent. No suitable habitat present at the erosion sites.
<i>Buteo regalis</i> ferruginous hawk	-/-/SC	Throughout California: Large, open tracts of grasslands, sparse shrub, or desert habitats with elevated structures for nesting	2	2	2		2	2		2				2	2		Absent. No suitable habitat present at the erosion sites.

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<i>Buteo swainsoni</i> Swainson's hawk	-/CT/-	Throughout California: Open desert, grassland, or cropland containing scattered, large trees or small groves.	2	2	2	2	2	2	2	2	2	2	2	2	2	High. Potentially suitable nesting habitat exists within some erosion sites. CNDDDB occurrences recorded at or within 5 mile proximity of all sites. Protocol-level surveys should be conducted in the spring of 2008 prior to construction activities associated with levee repair.
<i>Carduelis lawrencei</i> Lawrence's goldfinch	-/-/ G3G4/S3	Throughout California: Open woodland or shrubland, near water source										2			2	Low. Erosion sites do not likely provide suitable habitat for this species.
<i>Charadrius alexandrinus nivosus</i> western snowy plover	T/-/SC	Throughout California: Sandy or gravelly beaches along the coast, on estuarine salt ponds, alkali lakes, and at the Salton Sea	1	1	/	/	/	/	/	/	/	/	1	1	2	Absent. The erosion sites are outside the known range and do not provide suitable habitat for this species.
<i>Charadrius montanus</i> mountain plover	-/-/SC	Throughout California: Open plains with low, herbaceous or scattered shrub vegetation	2	2	2	2	2	2	2	2	2	2	2	2	2	Absent. The erosion sites do not provide suitable habitat for this species.
<i>Circus cyaneus</i> northern harrier	-/-/SC	Throughout California: Freshwater marshes, saltwater marshes, wet meadows, sloughs, swamps, open fields.	2	2											2	Low. The erosion sites SB 16.6R and CS 21.8R provide marginally suitable nesting and foraging habitat for this species; however, there are no CNDDDB occurrences within 5 miles of erosion sites.

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<i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	C/CE/-	Throughout California: Deciduous riparian thickets or forests with dense, low-level foliage, abutting slow-moving watercourses, backwaters, or seeps. Willow almost always a dominant component of the vegetation			2	2	1	1	1	1	1	1	1	1	1	1	1	Moderate. Although there are recorded occurrences for this species at Sac 42.7R and F 28.5R, the absence of extensive willow-dominated riparian habitat at erosion sites may preclude the presence of this species.
<i>Egretta thula</i> snowy egret	-/-/ G5/S4	Throughout California: Dense emergent wetland or trees near aquatic or wetland feeding areas				2		2	2	2	2	2	2	2	2	2	2	Known. Observed at site Sac 53.5R. Other erosion sites likely provide suitable foraging habitat for this species.
<i>Elanus leucurus</i> white-tailed kite	-/-/ G5/S3	Throughout California: Herbaceous lowlands and substantial groves of dense, broad-leafed deciduous trees used for nesting and roosting.	2	2	2	2	2	2	2	2	2		2	2	2	2	2	Known. Observed foraging over cropland on the land side of the levee at site CS 21.8R. Other erosion sites likely provide suitable foraging habitat for this species.
<i>Falco mexicanus</i> prairie Falcon	-/-/SC	Throughout California: Perennial grasslands, savannahs, rangeland, some agricultural fields, and desert scrub areas					2			2								Absent. The erosion sites do not provide suitable habitat for this species.
<i>Falco peregrinus anatum</i> American peregrine falcon	D/CE/-	Throughout California: Bodies of water in open areas with cliffs and canyons nearby for cover and nesting	2	2														Absent. The erosion sites do not provide suitable habitat for this species.

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<i>Geothlypis trichas sinuosa</i> saltmarsh common yellowthroat	-/-/SC	Throughout California: Brackish and saltwater marsh, dense vegetation near water	2	2	2		2	2		2			2	2		Low. The erosion sites CS 21.8R and SB 16.6R may provide marginally suitable habitat for this species; there are no CNDDDB occurrences within 5 miles of any erosion sites.
<i>Grus canadensis tabida</i> greater sandhill crane	-/CT/-	Throughout California: When nesting, prefers open habitats with shallow lakes and fresh emergent wetlands. In winter, also inhabits dry grasslands and croplands, especially near wetlands										2			2	Absent. The erosion sites do not provide suitable habitat for this species.
<i>Haliaeetus leucocephalus</i> bald eagle	D/CE/-	Throughout California: Large, old-growth trees or snags in remote, mixed stands near water											2			Absent. The erosion sites do not provide suitable habitat for this species.
<i>Hydroprogne caspia</i> Caspian tern	-/-/ G5/S4	Throughout California: Relatively barren, undisturbed islands, levees, or shores and nearby foraging areas in lakes, estuaries, salt ponds, or emergent wetlands	2	2												Low. Marginally suitable habitat may exist at SB 16.6R and CS 21.8R.
<i>Icteria virens</i> yellow-breasted chat	-/-/SC	Throughout California: Dense, brushy thickets and tangles near water, and thick understory in riparian woodland.	2	2												Low. Marginally suitable habitat may exist at SB 16.6R and CS 21.8R.

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<i>Laterallus jamaicensis coturniculus</i> California black rail	-/CT/-	Throughout California: Upper zones of saline emergent wetlands, especially with pickleweed, and brackish fresh emergent wetlands.	2	2	2												Low. The lack of suitable brackish marsh habitat at Cache Slough and Steamboat Slough likely precludes the presence of this species.
<i>Melospiza melodia axillaries</i> Suisun song sparrow	-/-/SC	Suisun Bay: Brackish water with emergent vegetation	2	2	2		2	2		2				2	2		Low. Cache Slough and Steamboat Slough sites do not likely provide suitable habitat. There are no CNDDDB occurrences within 5 miles of any erosion sites.
<i>Melospiza melodia samuelis</i> San Pablo song sparrow	-/-/SC	Northern San Francisco Bay and San Pablo Bay: Saltmarshes	2	2													Low. Cache Slough and Steamboat Slough sites do not likely provide suitable habitat. There are no CNDDDB occurrences within 5 miles of any erosion sites.
<i>Nycticorax nycticorax</i> black-crowned night heron	-/-/ G5/S3	Throughout California: Roosts among dense foliage of trees, shrubbery or vines, and in dense, fresh or brackish emergent wetlands			2	2	2	2	2	2	2	2	2	2	2	2	Moderate. Erosion sites provide suitable dense foliage for this species. Nearest CNDDDB are 3 miles south of Sac 77.2L and 3 miles east of Sac 42.7R. Not observed during field surveys conducted in January and February 2008.

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<i>Pandion haliaetus</i> osprey	-/-/SC	Throughout California: Large snags and open trees near large bodies of water.	2	2									2			Known. Although there are no recorded CNDDB occurrence within 5 miles of any erosion sites, this species was observed in transit over Sac 16.8L.
<i>Pelecanus occidentalis californicus</i> California Brown Pelican	E/CEFP/-	California coast: Sparsely vegetated areas near open sea, marinas, estuaries	1	1												Absent. The Cache Slough and Steamboat Slough erosion sites do not provide suitable habitat for this species.
<i>Phalacrocorax auritus</i> double-crested cormorant	-/-/SC	Throughout California: Coastal areas and inland waterways	2	2	2	2	2	2	2				2	2		Known. Observed at sites CS 21.8R, Sac 53.5R, 55.2L, 77.2L, and 177.8R, F 28.5R. Other sites likely provide suitable foraging habitat for this species.
<i>Plegadis chihi</i> white-faced ibis	-/-/SC	Throughout California: Marshes, swamps, ponds, rivers. Nests in dense marsh vegetation near foraging areas in shallow water or muddy fields				2		2	2	2	2			2		Low. Marginally suitable habitat may be present at some of the erosion sites. There are known CNDDB occurrences within 5 miles of Sac 52.3L, 53.5R, and 55.2L and LAR 0.3 and 28L.
<i>Progne subis</i> purple martin	-/-/SC	Throughout California: Old-growth, multi-layered, open forest and woodland with snags. Forages over riparian areas, forest, and woodland			2	2	2	2	2	2	2			2	2	Low. Marginally suitable habitat may be present at some of the erosion sites.

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<i>Rallus longirostris obsoletus</i> California clapper rail	E/CE/-	San Francisco, Morro, and Monterey Bays: Mudflats, marshes, or tidal sloughs with taller plant material nearby	1 / 2	1 / 2	1												Absent. Erosion sites lack suitable habitat for this species.
<i>Riparia riparia</i> bank swallow	-/CT/-	Throughout California: Vertical banks and cliffs with fine-textured or sandy soils near streams	2		2	2	2	2	2	2	2	2	2	2	2	2	Moderate. No suitable habitat present; no evidence of burrowing activity observed along exposed vertical riverbanks during January and February 2008 field surveys.
<i>Sternula antillarum browni</i> California least tern	E/CE/-	Coastal areas: Open, sandy or gravelly shores near shallow-water feeding areas in estuaries	1 / 2	1 / 2													Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Strix nebulosa</i> great gray owl	-/CE/-	Sierra Mountains south of Lake Tahoe: Dense coniferous and hardwood forests, near water											2				Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Strix occidentalis caurina</i> northern spotted owl	T/-/-	Throughout California: Old growth forests				1			1				1				Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Xanthocephalus xanthocephalus</i> yellow-headed blackbird	-/-/- G5/S3S4	Throughout California: Fresh emergent wetland, open fields.			2	2	2	2	2	2				2	2		Absent. Erosion sites lack suitable emergent wetland habitat for this species.
Mammals																	

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<i>Antrozous pallidus</i> pallid bat	-/-/SC	Throughout California: Rocky outcrops in desert scrub, forested oak and pines regions	2	2	2	2	2	2	2	2	2	2	2	2	2	Absent. Erosion sites lack large rocky outcrops.
<i>Corynorhinus townsendii</i> Toensend's big-eared bat	-/-/SC	Throughout California: Western desert scrub and pine forest regions				2			2							Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Dipodomys californicus eximius</i> Marysville California kangaroo rat	-/-/SC	Sutter Buttes: Grasslands, sparse chaparral on well-drained soils										2			2	Absent. Erosion sites lack suitable habitat for this species.
<i>Eumops perotis californicus</i> western mastiff bat	-/-/SC	Throughout California: Arid and semiarid lowlands										2				Absent. Erosion site lacks suitable roosting habitat.
<i>Lasionycteris noctivagans</i> silver-haired bat	-/-/SC	Throughout California: Forest and grassland	2	2	2	2	2	2	2	2		2	2	2		Low. Species prefers montane and coastal forests, but may be transient in a variety of habitats during migration. The nearest CNDDDB location is approximately 3 miles northeast of Sac 177.8R.
<i>Lasiurus blossevillii</i> western red bat	-/-/ G5/S3?	Throughout California: Cottonwoods in riparian areas below 6,500 feet, orchards	2	2	2	2	2	2	2	2	2	2	2	2	2	High. Suitable habitat exists for these bats on the erosion sites. Nearest CNDDDB occurrences 2 miles southwest of Sac 16.8L and 3.3 miles south of SB 16.6R.

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<i>Lasiurus cinereus</i> hoary bat	-/-/SC	Throughout California: Deciduous and coniferous forests and woodlands	2	2	2	2	2	2	2	2	2	2	2	2	2	Moderate. Suitable habitat may exist on erosion sites. CNDDDB occurrences within 5 miles of all sites except CS 21.8R, Sac 42.7R, Sac 49.7L, Sac 77.2L, and F 28.5R.
<i>Martes americana</i> <i>humboltensis</i> Humboldt marten	-/-/SC	Northern California: Old-growth redwoods											2			Absent. The erosion sites do not provide suitable old-growth redwood habitat.
<i>Martes pennanti</i> (<i>pacifica</i>) DPS pacific fisher	C/-/SC	Coastal areas: Closed canopy forests											2			Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Myotis yumanensis</i> yuma myotis	-/-/ G5/S4?	Throughout California: Variety of upland and lowland habitats. Near open water											2			Low. Erosion site may provide marginally suitable foraging habitat, however, roosting sites not present. No CNDDDB occurrences within 5 miles of any erosion sites.
<i>Perognathus inornatus</i> <i>inornatus</i> San Joaquin pocket mouse	-/-/ G4T2T3/ S2S3	West-central California: Grasslands											2		2	Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Reithrodontomys</i> <i>raviventris</i> salt-marsh harvest mouse	E/CE/-	San Francisco, San Pablo, and Suisun Bays: Pickleweed and other halophytes in marshes	1 2	1 2												Absent. Erosion sites lack suitable brackish marsh habitat.
<i>Sorex ornatus</i> <i>sinuosus</i> Suisun shrew	-/-/SC	San Pablo and Suisun Bays: Tidal marshes	2	2												Absent. Erosion sites lack suitable brackish marsh habitat.

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<i>Taxidea taxus</i> American badger	-/-/SC	Throughout California: Dry, open grasslands, fields, and pastures from high alpine meadows to sea level	2	2	2	2	2	2	2	2		2	2	2	Absent. Erosion sites lack suitable grassland habitat.
<i>Vulpes macrotis mutica</i> San Joaquin kit fox	E/-/-	San Joaquin Valley: California prairie and Sonoran grasslands near freshwater marshes and alkali sinks	1												Absent. Erosion sites lack suitable habitat and lie outside known range of species.
Plants															
<i>Amsinckia lunaris</i> bent-flowered fiddleneck	-/-/1B.2	Inner North Coast Ranges, west-central Central Valley, San Francisco Bay: Grasslands, woodlands. Blooms March -June				2			2						Absent. Erosion sites do not provide suitable habitat for this species.
<i>Antirrhinum subcordatum</i> dimorphic snapdragon	-/-/4.3	Inner North Coast Ranges: Gentle, open slopes on serpentine soil. Blooms April - July										2			Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Arctostaphylos auriculata</i> Mt. Diablo manzanita	-/-/1B.3	San Francisco Bay Area: Sandstone, chaparral. Blooms January - March	2 / 4												Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Arctostaphylos manzanita ssp. elegans</i> konocti manzanita	-/-/1B.3	Northern California: Chaparral, cismontane woodland, coniferous forest. Blooms March - May										2			Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Astragalus rattanii</i> var. <i>jepsonianus</i> Jepson's milk-vetch	-/-/1B.2	Inner North Coast Ranges: Serpentine soils. Blooms April - June				2			2			2			Absent. Erosion sites lack suitable habitat and are outside known range of species.

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<i>Astragalus tener</i> var. <i>ferrisiae</i> Ferris' milk-vetch	-/-/1B.1	Sacramento Valley: Alkaline flats, vernal moist meadows. Blooms April - May	2 / 4	2 / 4	4 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	4	Absent. Erosion sites do not provide suitable habitat and suitable soil substrates for this species.
<i>Astragalus tener</i> var. <i>tener</i> alkali milk-vetch	-/-/1B.2	Sacramento Valley, San Joaquin Valley, San Francisco Bay Area: Alkaline flats, vernal moist meadows; blooms April - May	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4		Absent. Erosion sites do not provide suitable habitat or soil substrates for this species.
<i>Atriplex cordulata</i> heartscale	-/-/1B.2	Central California: Shadescale shrub and valley grassland plant communities; blooms April - October	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4		Absent. Erosion sites do not provide suitable habitat for this species.
<i>Atriplex depressa</i> bristlescale	-/-/1B.2	Central California: Alkaline and clay soils; blooms May - October	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4		Absent. Erosion sites do not provide suitable habitat or soil substrates for this species.
<i>Atriplex joaquiniana</i> San Joaquin spearscale	-/-/1B.2	Sacramento and San Joaquin Valleys, Inner South Coast Ranges: Alkaline soils; blooms April - October	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2	Absent. Erosion sites do not provide suitable habitat or soil substrates for this species.
<i>Atriplex persistens</i> vernal pool smallscale	-/-/1B.2	Central California: Large, alkaline vernal pools; blooms June - October	2 / 4	2 / 4									2 / 4			Absent. Erosion sites do not provide suitable habitat or soil substrates for this species.

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<i>Balsamorhiza macrolepis</i> var. <i>macrolepis</i> big-scale balsamroot	-/-/1B.2	Sierra Nevada Foothills, Sacramento Valley, San Francisco Bay Area: Open grassy slopes, valleys; blooms March - June	2	2													Absent. Erosion sites do not provide suitable habitat for this species.
<i>Blepharizonia plumosa</i> big tarplant	-/-/1B.1	San Joaquin Valley, San Francisco Bay area, and South Coast Ranges: Dry grassy areas; blooms July - October	2 / 4		2												Absent. Erosion sites do not provide suitable habitat for this species.
<i>Brodiaea coronaria</i> ssp. <i>rosea</i> Indian Valley brodiaea	-/CE/1B.1	Tehama, Lake, and Glenn Counties: Grasslands. Blooms May - June										2					Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>California macrophylla</i> round-leaf filaree	-/-/1B.1	Throughout California: Valley grassland and foothill woodland communities; blooms March - May	2 / 4			2			2			2 / 4					Absent. Erosion sites do not provide suitable habitat for this species.
<i>Calochortus pulchellus</i> Mt. Diablo fairy-lantern	-/-/1B.2	Mount Diablo: Wooded slopes, chaparral; blooms April - June	2	2													Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Carex comosa</i> bristly sedge	-/-/2.1	Throughout California: Marshes, lake shores, and wet meadows; blooms May - September	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4		2		2			2	2		Low. Erosion sites do not likely provide suitable habitat for this species.
<i>Carex lenticularis</i> var. <i>limnophila</i> lakeshore sedge	-/-/2.2	North coast: Wet places; blooms June - August										4					Low. Erosion sites do not likely provide suitable habitat for this species.

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<i>Carex vulpinoidea</i> brown fox sedge	-/-/2.2	Throughout California: Near water on moist, open ground. Blooms May - June										2 / 4				Low. Erosion sites do not likely provide suitable habitat for this species.
<i>Castilleja rubicundula</i> ssp. <i>rubicundula</i> pink creamsacs	-/-/1B.2	Northern California: Serpentine soils. chaparral, cismontane woodland, meadows, seeps, valley and foothill grasslands. Blooms April - June				2			2			2 / 4				Absent. Erosion sites do not provide suitable habitat and suitable soil substrates for this species.
<i>Ceanothus purpureus</i> holly-leaved ceanothus	-/-/1B.2	Inner North Coast Ranges: Dry, shrub covered, rocky, volcanic slopes. Blooms February - June	2	2												Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Centromadia parryi</i> ssp. <i>congdonii</i> Congdon's tarplant	-/-/1B.2	California coast: Grasslands; blooms May - October	2	2												Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Centromadia parryi</i> ssp. <i>parryi</i> pappose tarplant	-/-/1B.2	San Francisco Bay area, Northern Central Valley: Chaparral, coastal prairie, meadows and seeps, marshes and swamps, valley and foothill grasslands; blooms May - November	2 / 4	2 / 4								2				Absent. Erosion sites do not provide suitable habitat for this species.
<i>Chamaesyce hooveri</i> Hoover's spurge	T/-/1B.2	Sacramento and San Joaquin Valleys: Vernal pools. Blooms July – September, uncommonly until October										1 / 2 / 4				Absent. Erosion sites do not provide suitable vernal pool habitat for this species.

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			SB 16.6R	CS 21.8R	Sac 16.8L	Sac 42.7R	Sac 49.7L	Sac 52.3L	Sac 53.5R	Sac 55.2L	Sac 77.2L	Sac 177.8R	LAR 0.3L		LAR 2.8L	F 28.5R	
<i>Chamaesyce ocellata</i> ssp. <i>rattanii</i> Stony Creek spurge	-/-/1B.2	Northern Sacramento Valley: Valley grasslands; blooms May - October											2				Absent. Erosion sites do not provide suitable habitat for this species.
<i>Cirsium hydrophilum</i> var. <i>hydrophilum</i> Suisun thistle	E/-/1B.1	San Francisco Estuary: Coastal salt marsh; blooms July - September	1 / 2	1 / 2													Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Cordylanthus mollis</i> ssp. <i>hispidus</i> hispid bird's beak	-/-/1B.1	Alameda, Kern, Merced, Placer, and Solano Counties: Seasonal saline or alkaline wetlands, vernal pools, meadows, sinks, inland playas, valley and foothill grasslands; blooms June - September	2	2													Absent. Erosion sites lack suitable habitat and suitable soil substrates for this species.
<i>Cordylanthus mollis</i> ssp. <i>mollis</i> soft bird's beak	E/CR/1B.2	San Pablo Bay and Suisun Bay Area: Upper reaches of salt grass/pickleweed marshes at or near tidal action limits; blooms July - November	1 / 2 / 4	1 / 2 / 4	2 / 4		2	2		2				2	2		Absent. Erosion sites do not provide suitable habitat for this species; nearest CNDDDB occurrence greater than 5 miles from all erosion sites.
<i>Cordylanthus palmatus</i> palmate-bracted bird's beak	E/CE/1B.1	Central Valley: Along edges of channels, drainages, depressions. Seasonally flooded saline- alkali soils in lowland plains and basins; blooms May - October				1 / 2 / 2	1 / 2 / 4	1 / 2 / 4	1 / 2 / 4	1 / 2 / 4	1 / 2 / 4	1 / 2 / 4					Absent. Erosion sites lack suitable alkaline soil substrates for this species.

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<i>Cryptantha hooveri</i> Hoover's cryptantha	-/-/1A	San Joaquin Valley: Sandy soils; blooms April - May	2 / 4														Absent. Erosion sites lack suitable habitat for this species.
<i>Delphinium recurvatum</i> recurved larkspur	-/-/1B.2	Central Valley, Inner South Coast Ranges, Mojave Desert: Poorly drained, fine alkali soils in grasslands; blooms March - June	2	2								2 / 4					Absent. Erosion sites lack suitable habitat and suitable soil substrates for this species.
<i>Downingia pusilla</i> dwarf downingia	-/-/2.2	Throughout California: Vernal pools and playa pools in valley and foothill grasslands; blooms March - May	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4		Absent. Erosion sites lack suitable habitat for this species.
<i>Epilobium nivium</i> Snow Mountain willowherb	-/-/1B.2	Southern High North Coast Ranges: Dry talus, shaly slopes. Blooms June - October										2					Absent. Erosion sites do not provide suitable habitat and are outside known range of species.
<i>Epilobium oreganum</i> Oregon fireweed	-/-/1B.2	Throughout California: Wet soils of bogs, gently sloping stream banks meadows. Blooms June - September										2					Absent. Sac 177.8 lacks suitable habitat for this species.
<i>Eriastrum brandegeae</i> Brandegee's eriastrum	-/-/1B.2	Inner North Coast Ranges: Volcanic soils; blooms April - August										2					Absent. Sac 177.8 lacks suitable habitat, suitable soil substrates, and is outside known range of species.

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<i>Eriastrum tracyi</i> Tracy's eriastrum	-/CR/1B.2	Throughout California: Chaparral, cismontane woodland. Blooms June - July										2				Absent. Sac 177.8 lacks suitable habitat for this species.
<i>Erigonium apricum</i> var. <i>apricum</i> Ione buckwheat	E/CE/1B.1	Amador County: Clay hills and barren outcrops, chaparral, conifer woodlands; blooms July - October			2		2	2		2			2	2		Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Eriogonum nervulosum</i> Snow Mountain buckwheat	-/-/1B.2	Southern High North Coast Range, Inner North Coast Range: Serpentine outcrops; blooms June - September				2			2			2				Absent. Erosion sites lack suitable habitat, suitable soil substrates, and are outside known range of species.
<i>Erigonum truncatum</i> Mt. Diablo buckwheat	-/-/1B.1	Mount Diablo: Edges of chaparral; blooms April - September	2 / 4	2												Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Eryngium pinnatisectum</i> Tuolumne button-celery	-/-/1B.2	Sierra Nevada Foothills: Vernal pools and wet depressions in oak woodlands; blooms June - August			2		2	2		2			2	2		Absent. Erosion sites lack suitable habitat for this species.
<i>Erysimum capitatum</i> var. <i>angustatum</i> Contra Costa wallflower	E/CE/1B.1	Antioch Dunes: Dunes; blooms March - July	1 / 2 / 4													Absent. SB 16.6R lacks suitable dune habitat for this species.

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<i>Eschscholzia rhombipetala</i> diamond-petaled California poppy	-/-/1B.1	San Joaquin Valley, San Francisco Bay Area: Fallow fields, open places; blooms March - April	2 / 4														Absent. SB 16.6R lacks suitable habitat for this species.
<i>Fritillaria liliacea</i> fragrant fritillary	-/-/1B.2	Sacramento Valley, Central Western California: Heavy soil, open hills, and fields near the coast; blooms February - April	2 / 4	2 / 4													Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Fritillaria pluriflora</i> adobe-lily	-/-/1B.1	Northern California: Adobe soil of interior foothills; blooms February - April	2 / 4	2 / 4		2			2				2				Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Gratiola heterosepala</i> Boggs Lake hedge-hyssop	-/CE/1B.2	Throughout California: Vernal pool, lake, reservoir margins in shallow water or moist ground in adobe soil; blooms April - August	2 / 4	2 / 4	2		2	2	2	2	2	2	2	2	2	2	Absent. Erosion sites lack suitable habitat for this species.
<i>Harmonia hallii</i> Hall's harmonia	-/-/1B.2	Inner North Coast Ranges: Chaparral; blooms April - June				2			2								Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Hesperolinon breweri</i> Brewer's western flax	-/-/1B.2	Inner North Coast Ranges and Mt Diablo: Chaparral or grassland; blooms May - July	2 / 4														Absent. Erosion sites lack suitable habitat for this species.

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<i>Hesperolinon drymarioides</i> drymaria-like western flax	-/-/1B.2	Colusa, Glenn, and Lake Counties: Serpentine, chaparral, or woodland. Blooms May - August				2		2				2				Absent. Erosion sites lack suitable habitat, suitable soil substrates, and are outside known range of species.
<i>Hesperolinon tehamense</i> Tehama western flax	-/-/1B.3	Tehama and Glenn Counties: Serpentine and chaparral; blooms May - July										2				Absent. Erosion sites lack suitable habitat, suitable soil substrates, and are outside known range of species.
<i>Hibiscus lasiocarpus</i> rose-mallow	-/-/2.2	Throughout California: Freshwater wetlands, moist roadside ditches, wet fields. Blooms June - September	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	Low. Although potentially suitable habitat present, species not observed during January and February 2008 field surveys (dried, robust stems of mature species readily evident during the winter if present).
<i>Isocoma arguta</i> Carquinez goldenbush	-/-/1B.1	Suisun Slough: Valley grasslands; blooms August - December	2	2 / 4	2	2	2	2	2	2			2	2		Absent. Erosion sites lack suitable habitat for this species.
<i>Juglans hindsii</i> Northern California black walnut	-/-/1B.1	Southern Inner North Coast Ranges, southern Sacramento Valley, northern San Joaquin Valley, San Francisco Bay Area: Rocky and gravelly well-drained soils by the coast, along rivers and streams, canons, valleys. Blooms April - May	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	Moderate. Suitable habitat present; Sac 16.8L and Sac42.7R lie within CNDDDB occurrence area.

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<i>Juncus leiospermus</i> var. <i>ahartii</i> Ahart's dwarf rush	-/-/1B.2	Northern Sierra Nevada Foothills, East Sacramento Valley, Northeast San Joaquin Valley: Vernal pool margins; blooms March - May			2		2	2		2				2	/	2	2	Absent. Erosion sites lack suitable vernal pool habitat for this species.
<i>Juncus leiospermus</i> var. <i>leiospermus</i> Red bluff dwarf rush	1B.1	Cascade Range Foothills and northern Sacramento Valley: Chaparral, valley grassland, foothill woodland, freshwater wetlands. Blooms March - May														4		Absent. F 28.5R does not provide suitable habitat.
<i>Lasthenia conjugens</i> Contra Costa goldfields	E/-/1B.1	San Francisco Bay Area: Vernal pools; blooms March - June	1 / 2 / 4		1													Absent. Erosion sites do not provide suitable vernal pool habitat for this species.
<i>Lathyrus jepsonii</i> var. <i>jepsonii</i> delta tulle pea	-/-/1B.2	Central Valley: Marshes; blooms May - September	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4		2		2			2		2		High. Potentially suitable habitat present at SB 16.6R and CS 21.8R. Nearest CNDDDB occurrence to SB 16.6R is 1 mile to the southwest. . Nearest CNDDDB occurrence to CS 21.8R is 2 miles to the northwest; Sac 16.8L lies within a CNDDDB occurrence area for this species. Floristic surveys should be conducted during the appropriate bloom period for this species.

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<i>Layia septentrionalis</i> Colusa layia	-/-/1B.2	Inner North Coast Ranges, Sacramento Valley: Chaparral, Valley Grassland, Foothill Woodland. Blooms April - May				2		2		2	2			2	Absent. Erosion sites do not provide suitable grassland habitat for this species.
<i>Legenere limosa</i> legenere	-/-/1B.1	Northern California: Moist soil in vernal pools, vernal marshes, lakes, ponds, sloughs. Blooms April - June	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	Low. Erosion sites do not likely provide suitable wetland habitats for this species.
<i>Lepidium latipes</i> var. <i>heckardii</i> Heckard's pepper-grass	-/-/1B.2	Yolo County: Vernal pools, alkaline flats. Blooms March - May	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4		Absent. Erosion sites lack suitable vernal pool habitat and suitable soil substrates for this species.
<i>Lilaeopsis masonii</i> Mason's lilaeopsis	-/CR/1B.1	South Sacramento Valley, northeast San Francisco Bay Area: Intertidal marshes, stream banks; blooms April- November	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4		2		2		2	2	High. Erosion sites do provide potentially suitable wetland habitats for this species. Nearest CNDDDB occurrence to CS 21.8R is 1.5 miles to the southeast. Nearest CNDDDB occurrence to SB 16.6R is 1 mile to the southwest. Nearest CNDDDB occurrence to Sac 16.8L is 2 miles to the northwest. No CNDDDB occurrences within 5 miles of all other sites. Floristic surveys should be conducted during the appropriate bloom period for this species

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<i>Limosella subulata</i> delta mudwort	-/-/2.1	Deltaic Central Valley: Freshwater wetlands; blooms May-August	2 / 4	2 / 4	2 / 4	4	2 / 4	2	2			2	2		High. Erosion sites provide potentially suitable wetland habitats for this species. Nearest CNDDDB occurrence to CS 21.8R is 2.5 miles to the southeast. Nearest CNDDDB occurrence to 16.6R is 3 miles to the northwest. CNDDDB occurrences are recorded approximately 4 miles to the southeast and southwest of Sac 16.8L. All other sites have no occurrences within 5 miles. Floristic surveys should be conducted during the appropriate bloom period for this species	
<i>Madia radiata</i> showy madia	-/-/1B.1	Western Central Valley: Cismontane woodland, valley and foothill grassland. Blooms March - May	2 / 4												Absent. Erosion sites do not provide suitable grassland habitat for this species.	
<i>Monardella douglasii</i> ssp. <i>venosa</i> veiny monardella	-/-/1B.1	Butte County: Cismontane woodland, valley and foothill grassland flat to gently sloping terrain near stream channels. Blooms May - July								2				2 / 4	Absent. Erosion sites lack suitable habitat and are outside known range of species.	
<i>Myosurus minimus</i> ssp. <i>apus</i> little mousetail	-/-/3.1	Throughout California: Vernal pools; blooms March - June	4	4											Absent. Erosion sites lack suitable vernal pool habitat for this species	

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<i>Navarretia leucocephala</i> ssp. <i>bakeri</i> Baker's navarretia	-/-/1B.1	Northern California: Meadows, vernal pools. Blooms April - June	2 / 4	2 / 4		2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	Absent. Erosion sites lack suitable vernal pool habitat for this species.
<i>Navarretia myersii</i> ssp. <i>pincushion</i> navarretia	-/-/1B.1	Central Valley: Vernal pools; blooms in May			2		2	2		2			2	2			Absent. Erosion sites lack suitable vernal pool habitat for this species.
<i>Neostapfia colusana</i> Colusa grass	T/CE/1B.1	Sacramento and San Joaquin Valleys: Vernal pools; blooms May - August	1 / 2 / 4	1 / 2 / 4		1 / 2 / 4	1 / 2 / 4	1 / 2 / 4	1 / 2 / 4	1 / 2 / 4			1 / 2 / 4	1 / 2 / 4			Absent. Erosion sites lack suitable vernal pool habitat for this species.
<i>Oenothera deltoids</i> ssp. <i>howellii</i> Antioch Dunes evening primrose	E/CE/1B.1	Antioch Dunes, near confluence of Sacramento and San Joaquin Rivers: Sandy soil; blooms March - September	1 / 2 / 4	1 / 2 / 4			1 / 2 / 4	1 / 2 / 4		1 / 2 / 4			1 / 2 / 4	1 / 2 / 4			Absent. Erosion sites do not provide suitable sandy soil substrates and dune habitat for this species.
<i>Orcuttia inaequalis</i> San Joaquin Valley orcutt grass	T/CE/1B.1	San Joaquin Valley: Deep vernal pools; blooms April - September	2	2													Absent. Erosion sites lack suitable vernal pool habitat for this species.
<i>Orcuttia tenuis</i> slender orcutt grass	T/CE/1B.1	Inner North Coast Range, Cascade Range Foothills: Vernal pools, remnant alluvial fans, high stream terraces, recent basaltic flows, stock ponds. Blooms May – September			1 / 2		1 / 2	1 / 2		1 / 2			1 / 2	1 / 2	1 / 4		Absent. Erosion sites lack suitable vernal pool habitat for this species.
<i>Orcuttia pilosa</i> hairy orcutt grass	E/CE/1B.1	Central Valley: Vernal pools; Blooms May - September											1 / 2	1 / 2			Absent. Erosion sites lack suitable vernal pool habitat for this species.

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<i>Orcuttia viscid</i> Sacramento orcutt grass	E/CE/1B.1	Eastern Sacramento County: Vernal pools; blooms April - July			1 / 2		1 / 2	1 / 2		1 / 2			1 / 2 / 4	Absent. Erosion sites lack suitable vernal pool habitat for this species.
<i>Paronychia ahartii</i> Ahart's paronychia	-/-/1B.1	Cascade Range Foothills, Sacramento Valley: Well-drained, rocky outcrops, vernal pool edges, volcanic uplands. Blooms March - June											2 / 4	Absent. Erosion sites do not provide suitable habitat for this species.
<i>Plagiobothrys hystriculus</i> bearded popcorn-flower	-/-/1B.1	Solano County: Grassland, probably vernal pools, wet sites. Blooms April - May	2 / 4	2 / 4										Absent. Erosion sites lack suitable grassland and vernal pool habitat for this species.
<i>Polygonum marinense</i> Marin knotweed	-/-/3.1	San Francisco Bay Area: Coastal salt marshes; blooms May - August	2	2										Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Potamogeton zosteriformis</i> eel-grass pondweed	-/-/2.2	Throughout California: Ponds, lakes, streams. Blooms June - July	2 / 4	2 / 4										Absent. Erosion sites lack suitable lacustrine habitat for this species.
<i>Pseudobahia bahiifolia</i> Hartweg's golden sunburst	E/CE/1B.1	Central Valley: Open grasslands and grasslands at the margins of blue oak woodland; blooms March - April										2	2 / 4	Absent. Erosion sites do not provide suitable grassland habitat for this species.

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<i>Sagittaria sanfordii</i> Sanford's arrowhead	-/-/1B.2	Central Valley, northern North Coast, northern South Coast: Shallow, standing fresh water in ponds, ditches, marshes, swamps, vernal pools, reservoirs, sloughs, canals, streams, rivers. Blooms May - October	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4			2 / 4	2 / 4	4	Moderate. Erosion sites, primarily those within marshes, sloughs, and slow-moving/backwater stream habitats may provide suitable habitat for this species.
<i>Scutellaria galericulata</i> marsh skullcap	-/-/2.2	Throughout California: Behind sea benches, cobble borders of lakes, marshes, along rivers. Blooms June - September	2 / 4		2 / 4											Moderate. Marginally suitable habitat may be present. CNDDDB occurrence recorded 5 miles SE of Sac 16.8L.
<i>Scutellaria lateriflora</i> side-flowering skullcap	-/-/2.2	Throughout California: Marshes, wet meadows. Blooms July - September	2 / 4		2 / 4	2 / 4	2 / 4		2				2	2		Absent. Erosion sites lack suitable marsh habitat.
<i>Senecio aphanactis</i> chaparral ragwort	-/-/2.2	Southern and Central coast of California: Drying alkaline flats; blooms January - April	2	2												Absent. Erosion sites lack suitable habitat, suitable soil substrates, and are outside known range of species.
<i>Sidalcea oregana</i> ssp. <i>hydrophila</i> marsh checkerbloom	-/-/1B.2	Glenn, Lake, Mendocino, and Napa Counties: Meadows, riparian scrub. Blooms July - August											2			Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Silene verecunda</i> ssp. <i>verecunda</i> San Francisco champion	-/-/1B.2	San Francisco, San Mateo, and Santa Cruz Counties: Rock outcrops in coastal bluff scrub. Blooms March – June, rarely into August											2		2	Absent. Erosion sites lack suitable habitat, suitable soil substrates, and are outside known range of species.

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<i>Streptanthus breweri</i> var. <i>hesperidis</i> green jewel-flower	-/-/1B.2	Napa and Lake Counties: Openings in chaparral and cismontane woodland. Blooms May - July											2				Absent. Erosion sites lack suitable habitat and are outside known range of species.
<i>Symphotrichum lentum</i> Suisun Marsh aster	-/-/1B.2	Throughout California: Freshwater or brackish marsh. Blooms May - November	2 / 4	2 / 4	2 / 4			2	2			2		2	2		Known. Species observed during January and February field surveys at SB 16.6R, CS 21.8R, and Sac 16.8L.
<i>Trichocoronis wrightii</i> var. <i>wrightii</i> Wright's trichocoronis	-/-/2.1	Central Valley and South Coast: Moist places; blooms May - September										2				2 / 4	Low. Marginally suitable habitat present. No CNDDDB records within 5 miles of Sac 77.2L and F 28.5R.
<i>Trifolium amoenum</i> Showy Indian clover	E/-/1B.1	San Francisco Bay Area and California Coast Ranges: Moist, heavy soils in grasslands and disturbed areas. Blooms April - June	2	2													Absent. Erosion sites do not provide suitable soil substrates for this species. Presumed extinct until rediscovered in western Sonoma County. Presently, the only known extant population occurs in Marin County.
<i>Trifolium depauperatum</i> var. <i>hydrophilum</i> saline clover	-/-/1B.2	Sacramento Valley, Central Western California: Salt marshes, open areas in alkaline soils. Blooms April - June	2	2									4				Absent. Erosion sites do not provide suitable soil substrates for this species.
<i>Tropidocarpum</i> <i>capparideum</i> caper-fruited tropidocarpum	-/-/1B.1	Northwest San Joaquin Valley: Alkaline soils, low hills, valleys. Blooms March - April											2				Absent. Erosion sites do not provide suitable soil substrates for this species.

Scientific Name Common Name	Status ⁱ Federal/State/ CNPS/CDFG GRank/SRank ⁱⁱ	Habitat and Seasonal Distribution in California	Potential Occurrence at Erosion Sites ⁱⁱⁱ											Likelihood of Occurrence ^{iv}		
			SB 16.6R	CS 21.8R	Sac 16.8L	Sac 42.7R	Sac 49.7L	Sac 52.3L	Sac 53.5R	Sac 55.2L	Sac 77.2L	Sac 177.8R	LAR 0.3L		LAR 2.8L	F 28.5R
<i>Tuctoria greenei</i> greene's tuctora (= Orcut grass)	E/-/-	Central Valley: Vernal pools. Blooms May – July, uncommonly into September				1			1				1 / 4			Absent. Erosion sites lack suitable vernal pool habitat for this species.
<i>Tuctoria mucronata</i> Crampton's tuctoria or Solano grass	E/CE/1B.1	Northern California: Vernal pools; blooms April - August	1 / 2 / 4	1 / 2 / 4		1 / 2 / 4	1 / 2 / 4	1 / 2 / 4	1 / 2 / 4				1 / 2 / 4			Absent. Erosion sites lack suitable vernal pool habitat for this species.
<i>Wolffia brasiliensis</i> Brazilian watermeal	-/-/2.3	Throughout California: Ponds; blooms April - December											2 / 4	2		Absent. Erosion sites do not provide suitable pond habitat for this species.

ⁱ **Federal**

- FE** = Listed as endangered under the federal Endangered Species Act (ESA)
- FT** = Listed as threatened under ESA
- C** = Candidate for listing under ESA
- SC** = Species of concern under ESA
- D** = Delisted (Status to be monitored for 5 years)
- PR** = Protected under the Bald and Golden Eagle Protection Act; – = No federal status.

State

- CE** = Listed as endangered under the California Endangered Species Act (CESA)
- CT** = Listed as threatened under CESA
- CR** = Listed as rare under the CESA

CNPS

- 1A** = Plants Presumed extinct in California
- 1B** = Plants rare, threatened, or endangered in California and elsewhere
- 2** = Plants rare, threatened, or endangered in California, but more common elsewhere
- 3** = Plants for which more information is need to determine status

CNPS Threat Code Extension

- 1.** Species seriously endangered in California
- 2.** Species fairly endangered in California
- 3.** Species not very endangered in California

CDFG

SC = California species of special concern

FP = Fully protected under California Fish and Game Code; = No state status.

- ii **Global and State** rankings only provided for those species without federal, state, CDFG, or CNPS status.
- G1** = Extremely endangered throughout its worldwide range
G2 = Endangered throughout its worldwide range
G3 = Restricted throughout its worldwide range
G5 = Demonstrably secure throughout its worldwide range
S1 = Extremely endangered throughout its statewide range (<1,000 individuals, or <2,000 acres of occupied habitat)
S2 = Endangered throughout its statewide range
S3 = Restricted throughout its statewide range (3,000 – 10,000 individuals or 10,000 – 50,000 acres of occupied habitat)
S4 = Apparently secure throughout its statewide range
TH = Subspecies may be extinct, but further field work is needed - All sites are historical
SH = Species may be extinct, but further field work is needed - All sites are historical
T1 = Subspecies is extremely endangered throughout its worldwide range (<1,000 individuals, or <2,000 acres of occupied habitat).
- iii Potential occurrence by site is indicated where a species has been documented to occur, either historically or recently, based on the databases searched. A nine quadrant search was conducted for each site based on the USGS 7.5' topographic map and/or county search was conducted for each site.
- 1** = U.S. Fish and Wildlife Service (USFWS) species list (Nine quadrant and county search)
2 = California Natural Diversity Database (CNDDDB) records (Nine quadrant and county search)
3 = National Marine Fisheries Service (NMFS) listed species (As indicated by USFWS search)
4 = California Native Plant Society (CNPS) *Electronic Inventory of Rare and Endangered Plants* (Nine quadrant search)
- iv **Likelihood of Occurrence**
- A rating of **Known** indicates that the species has been observed in, or adjacent to the project site.
- A rating of **High** indicates that the species has not been observed, but sufficient information is available to indicate suitable habitat and conditions are present within the project site and that the species is expected to occur on the project site.
- A rating of **Moderate** indicates that it is not known if the species is present, but suitable habitat exists on the project site.
- A rating of **Low** indicates that the species was not observed during biological surveys conducted to date on the project site and may not be expected given the species' known regional distribution or quality of habitat(s) located within the project site.
- A rating of **Absent** indicates that the species would not be expected to occur within the project site because the site does not include the known range or does not support suitable habitat.

Data obtained from:

California Department of Fish and Game. "Natural Diversity Database." Commercial Version. 31 Dec 2007. Accessed 29 Jan 2008.

California Native Plant Society. "Inventory of Rare and Endangered Plants: v7-08a." 1 Feb 2008 <<http://cnps.web.aplus.net/cgi-bin/inv/inventory.cgi/>>. Accessed 14 Feb 2008.

Fish and Wildlife Service, United States Department of the Interior. "Species List." Sacramento Fish and Wildlife Office. <http://www.fws.gov/sacramento/es/spp_lists/>. Accessed 31 Jan 2008.

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Glenn County - Sac 177.8R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Accipiter gentilis</i> northern goshawk	ABNKC12060			G5	S3	SC
2 <i>Actinemys marmorata marmorata</i> northwestern pond turtle	ARAAD02031			G3G4T3	S3	SC
3 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
4 <i>Alkali Seep</i>	CTT45320CA			G3	S2.1	
5 <i>Ambystoma californiense</i> California tiger salamander	AAAAA01180	Threatened		G2G3	S2S3	SC
6 <i>Anthicus antiochensis</i> Antioch Dunes anthicid beetle	IICOL49020			G1	S1	
7 <i>Anthicus sacramento</i> Sacramento anthicid beetle	IICOL49010			G1	S1	
8 <i>Antirrhinum subcordatum</i> dimorphic snapdragon	PDSCR2S070			G3	S3.3	4.3
9 <i>Arctostaphylos manzanita ssp. elegans</i> Konociti manzanita	PDERI04271			G5T2	S2.3	1B.3
10 <i>Ardea alba</i> great egret	ABNGA04040			G5	S4	
11 <i>Ardea herodias</i> great blue heron	ABNGA04010			G5	S4	
12 <i>Astragalus rattanii var. jepsonianus</i> Jepson's milk-vetch	PDFAB0F7E1			G4T2	S2.2	1B.2
13 <i>Astragalus tener var. ferrisiae</i> Ferris' milk-vetch	PDFAB0F8R3			G1T1	S1.1	1B.1
14 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
15 <i>Atriplex cordulata</i> heartscale	PDCHE040B0			G2?	S2.2?	1B.2
16 <i>Atriplex depressa</i> brittlescale	PDCHE042L0			G2Q	S2.2	1B.2
17 <i>Atriplex joaquiniana</i> San Joaquin spearscale	PDCHE041F3			G2	S2.1	1B.2
18 <i>Atriplex persistens</i> vernal pool smallscale	PDCHE042P0			G2	S2.2	1B.2
19 <i>Branchinecta conservatio</i> Conservancy fairy shrimp	ICBRA03010	Endangered		G1	S1	
20 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
21 <i>Brodiaea coronaria ssp. rosea</i> Indian Valley brodiaea	PMLIL0C032		Endangered	G4T1	S1.1	1B.1
22 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
23 <i>California macrophylla</i> round-leaved filaree	PDGER01070			G3	S3.1	1B.1

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Glenn County - Sac 177.8R

	Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
24	<i>Castilleja rubicundula ssp. rubicundula</i> pink creamsacs	PDSCR0D482			G5T2	S2.2	1B.2
25	<i>Centromadia parryi ssp. parryi</i> pappose tarplant	PDAST4R0P2			G4?T2	S2.2	1B.2
26	<i>Chamaesyce hooveri</i> Hoover's spurge	PDEUP0D150	Threatened		G2	S2.1	1B.2
27	<i>Chamaesyce ocellata ssp. rattanii</i> Stony Creek spurge	PDEUP0D1P1			G4T3	S3.3	1B.2
28	<i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA			G3	S2.1	
29	<i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Candidate	Endangered	G5T3Q	S1	
30	<i>Cordylanthus palmatus</i> palmate-bracted bird's-beak	PDSCR0J0J0	Endangered	Endangered	G1	S1.1	1B.1
31	<i>Delphinium recurvatum</i> recurved larkspur	PDRAN0B1J0			G2	S2.2	1B.2
32	<i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
33	<i>Egretta thula</i> snowy egret	ABNGA06030			G5	S4	
34	<i>Epilobium nivium</i> Snow Mountain willowherb	PDONA060M0			G2	S2.2	1B.2
35	<i>Epilobium oreganum</i> Oregon fireweed	PDONA060P0			G2	S2.2	1B.2
36	<i>Eriastrum brandegeeeae</i> Brandegee's eriastrum	PDPLM03020			G3	S3.2	1B.2
37	<i>Eriastrum tracyi</i> Tracy's eriastrum	PDPLM030C0		Rare	G1Q	S1.1	1B.2
38	<i>Eriogonum nervulosum</i> Snow Mountain buckwheat	PDPGN08440			G2	S2.2	1B.2
39	<i>Eumops perotis californicus</i> western mastiff bat	AMACD02011			G5T4	S3?	SC
40	<i>Fritillaria pluriflora</i> adobe-lily	PMLILOV0F0			G2	S2.2	1B.2
41	<i>Great Valley Cottonwood Riparian Forest</i>	CTT61410CA			G2	S2.1	
42	<i>Great Valley Mixed Riparian Forest</i>	CTT61420CA			G2	S2.2	
43	<i>Great Valley Valley Oak Riparian Forest</i>	CTT61430CA			G1	S1.1	
44	<i>Great Valley Willow Scrub</i>	CTT63410CA			G3	S3.2	
45	<i>Haliaeetus leucocephalus</i> bald eagle	ABNKC10010	Delisted	Endangered	G5	S2	
46	<i>Hesperolinon drymarioides</i> drymaria-like western flax	PDLIN01090			G2	S2.2	1B.2
47	<i>Hesperolinon tehamense</i> Tehama County western flax	PDLIN010C0			G1	S1.2	1B.3
48	<i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2

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Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
49 <i>Lasionycteris noctivagans</i> silver-haired bat	AMACC02010			G5	S3S4	SC
50 <i>Lasiurus blossevillei</i> western red bat	AMACC05060			G5	S3?	
51 <i>Lasiurus cinereus</i> hoary bat	AMACC05030			G5	S4?	SC
52 <i>Layia septentrionalis</i> Colusa layia	PDAST5N0F0			G2	S2.2	1B.2
53 <i>Lepidium latipes var. heckardii</i> Heckard's pepper-grass	PDBRA1M0K1			G4T1	S1.2	1B.2
54 <i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
55 <i>Martes americana humboldtensis</i> Humboldt marten	AMAJF01012			G5T2T3	S2S3	SC
56 <i>Martes pennanti (pacifica) DPS</i> Pacific fisher	AMAJF01021	Candidate		G5	S2S3	SC
57 <i>Myotis yumanensis</i> Yuma myotis	AMACC01020			G5	S4?	
58 <i>Navarretia leucocephala ssp. bakeri</i> Baker's navarretia	PDPLM0C0E1			G4T2	S2.1	1B.1
59 <i>Neostapfia colusana</i> Colusa grass	PMPOA4C010	Threatened	Endangered	G3	S3.1	1B.1
60 <i>Nycticorax nycticorax</i> black-crowned night heron	ABNGA11010			G5	S3	
61 <i>Orcuttia pilosa</i> hairy orcutt grass	PMPOA4G040	Endangered	Endangered	G2	S2.1	1B.1
62 <i>Pandion haliaetus</i> osprey	ABNKC01010			G5	S3	SC
63 <i>Rana boylei</i> foothill yellow-legged frog	AAABH01050			G3	S2S3	SC
64 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	
65 <i>Sidalcea oregana ssp. hydrophila</i> marsh checkerbloom	PDMAL110K2			G5T2?	S2?	1B.2
66 <i>Spea hammondi</i> western spadefoot	AAABF02020			G3	S3	SC
67 <i>Streptanthus breweri var. hesperidis</i> green jewel-flower	PDBRA2G092			G5T2	S2.2	1B.2
68 <i>Streptanthus morrisonii</i> see individual subspecies!	PDBRA2G0S0			G2	S2	
69 <i>Strix nebulosa</i> great gray owl	ABNSB12040		Endangered	G5	S1	
70 <i>Taxidea taxus</i> American badger	AMAJF04010			G5	S4	SC
71 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

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 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Solano County - SB 16.6R, CS 21.8R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Actinemys marmorata</i> western pond turtle	ARAAD02030			G3G4	S3	SC
2 <i>Actinemys marmorata marmorata</i> northwestern pond turtle	ARAAD02031			G3G4T3	S3	SC
3 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
4 <i>Ambystoma californiense</i> California tiger salamander	AAAAA01180	Threatened		G2G3	S2S3	SC
5 <i>Ammodramus savannarum</i> grasshopper sparrow	ABPBXA0020			G5	S2	
6 <i>Andrena biennospermatis</i> A vernal pool andrenid bee	IIHYM35030			G2	S2	
7 <i>Anthicus antiochensis</i> Antioch Dunes anthicid beetle	IICOL49020			G1	S1	
8 <i>Anthicus sacramento</i> Sacramento anthicid beetle	IICOL49010			G1	S1	
9 <i>Antrozous pallidus</i> pallid bat	AMACC10010			G5	S3	SC
10 <i>Aquila chrysaetos</i> golden eagle	ABNKC22010			G5	S3	SC
11 <i>Ardea alba</i> great egret	ABNGA04040			G5	S4	
12 <i>Ardea herodias</i> great blue heron	ABNGA04010			G5	S4	
13 <i>Asio flammeus</i> short-eared owl	ABNSB13040			G5	S3	SC
14 <i>Astragalus tener var. ferrisiae</i> Ferris' milk-vetch	PDFAB0F8R3			G1T1	S1.1	1B.1
15 <i>Astragalus tener var. tener</i> alkali milk-vetch	PDFAB0F8R1			G1T1	S1.1	1B.2
16 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
17 <i>Atriplex cordulata</i> heartscale	PDCHE040B0			G2?	S2.2?	1B.2
18 <i>Atriplex depressa</i> brittlescale	PDCHE042L0			G2Q	S2.2	1B.2
19 <i>Atriplex joaquiniana</i> San Joaquin spearscale	PDCHE041F3			G2	S2.1	1B.2
20 <i>Atriplex persistens</i> vernal pool smallscale	PDCHE042P0			G2	S2.2	1B.2
21 <i>Balsamorhiza macrolepis var. macrolepis</i> big-scale balsamroot	PDAST11061			G3G4T2	S2.2	1B.2
22 <i>Blepharizonia plumosa</i> big tarplant	PDAST1C011			G1	S1.1	1B.1
23 <i>Branchinecta conservatio</i> Conservancy fairy shrimp	ICBRA03010	Endangered		G1	S1	

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Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
24 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
25 <i>Branchinecta mesovallensis</i> midvalley fairy shrimp	ICBRA03150			G2	S2	
26 <i>Buteo regalis</i> ferruginous hawk	ABNKC19120			G4	S3S4	SC
27 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
28 <i>Calochortus pulchellus</i> Mt. Diablo fairy-lantern	PMLIL0D160			G2	S2.1	1B.2
29 <i>Ceanothus purpureus</i> holly-leaved ceanothus	PDRHA04160			G2	S2.2	1B.2
30 <i>Centromadia parryi ssp. congdonii</i> Congdon's tarplant	PDAST4R0P1			G4T3	S3.2	1B.2
31 <i>Centromadia parryi ssp. parryi</i> pappose tarplant	PDAST4R0P2			G4?T2	S2.2	1B.2
32 <i>Charadrius montanus</i> mountain plover	ABNNB03100			G2	S2?	SC
33 <i>Cicindela hirticollis abrupta</i> Sacramento Valley tiger beetle	IICOL02106			G5TH	SH	
34 <i>Circus cyaneus</i> northern harrier	ABNKC11010			G5	S3	SC
35 <i>Cirsium hydrophilum var. hydrophilum</i> Suisun thistle	PDAST2E1G1	Endangered		G1T1	S1.1	1B.1
36 <i>Coastal Brackish Marsh</i>	CTT52200CA			G2	S2.1	
37 <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA			G3	S2.1	
38 <i>Cordylanthus mollis ssp. hispidus</i> hispid bird's-beak	PDSCR0J0D1			G2T2	S2.1	1B.1
39 <i>Cordylanthus mollis ssp. mollis</i> soft bird's-beak	PDSCR0J0D2	Endangered	Rare	G2T1	S1.1	1B.2
40 <i>Danaus plexippus</i> monarch butterfly	IILEPP2010			G5	S3	
41 <i>Delphinium recurvatum</i> recurved larkspur	PDRAN0B1J0			G2	S2.2	1B.2
42 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
43 <i>Downingia pusilla</i> dwarf downingia	PDCAM060C0			G3	S3.1	2.2
44 <i>Dumontia oregonensis</i> A water flea	ICBRA23010			G1G3	S1	
45 <i>Elanus leucurus</i> white-tailed kite	ABNKC06010			G5	S3	
46 <i>Elaphrus viridis</i> Delta green ground beetle	IICOL36010	Threatened		G1	S1	
47 <i>Eriogonum truncatum</i> Mt. Diablo buckwheat	PDPGN085Z0			G1	S1.1	1B.1

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 Solano County - SB 16.6R, CS 21.8R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
48 <i>Falco peregrinus anatum</i> American peregrine falcon	ABNKD06071	Delisted	Endangered	G4T3	S2	
49 <i>Fritillaria liliacea</i> fragrant fritillary	PMLIL0V0C0			G2	S2.2	1B.2
50 <i>Fritillaria pluriflora</i> adobe-lily	PMLIL0V0F0			G2	S2.2	1B.2
51 <i>Geothlypis trichas sinuosa</i> saltmarsh common yellowthroat	ABPBX1201A			G5T2	S2	SC
52 <i>Gratiola heterosepala</i> Boggs Lake hedge-hyssop	PDSCR0R060		Endangered	G3	S3.1	1B.2
53 <i>Hesperolinon breweri</i> Brewer's western flax	PDLIN01030			G2	S2.2	1B.2
54 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
55 <i>Hydrochara rickseckeri</i> Ricksecker's water scavenger beetle	IICOL5V010			G1G2	S1S2	
56 <i>Hydroprogne caspia</i> Caspian tern	ABNNM08020			G5	S4	
57 <i>Hypomesus transpacificus</i> Delta smelt	AFCHB01040	Threatened	Threatened	G1	S1	
58 <i>Icteria virens</i> yellow-breasted chat	ABPBX24010			G5	S3	SC
59 <i>Isocoma arguta</i> Carquinez goldenbush	PDAST57050			G1	S1.1	1B.1
60 <i>Juglans hindsii</i> Northern California black walnut	PDJUG02040			G1	S1.1	1B.1
61 <i>Lasionycteris noctivagans</i> silver-haired bat	AMACC02010			G5	S3S4	SC
62 <i>Lasiurus blossevillii</i> western red bat	AMACC05060			G5	S3?	
63 <i>Lasiurus cinereus</i> hoary bat	AMACC05030			G5	S4?	SC
64 <i>Lasthenia conjugens</i> Contra Costa goldfields	PDAST5L040	Endangered		G1	S1.1	1B.1
65 <i>Laterallus jamaicensis coturniculus</i> California black rail	ABNME03041		Threatened	G4T1	S1	
66 <i>Lathyrus jepsonii</i> var. <i>jepsonii</i> Delta tule pea	PDFAB250D2			G5T2	S2.2	1B.2
67 <i>Legenere limosa</i> legenere	PDCAM0C010			G2	S2.2	1B.1
68 <i>Lepidium latipes</i> var. <i>heckardii</i> Heckard's pepper-grass	PDBRA1M0K1			G4T1	S1.2	1B.2
69 <i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
70 <i>Lilaeopsis masonii</i> Mason's lilaeopsis	PDAPI19030		Rare	G3	S3.1	1B.1

California Department of Fish and Game
Natural Diversity Database
Selected Elements by Scientific Name - Portrait
Solano County - SB 16.6R, CS 21.8R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
71 <i>Limosella subulata</i> Delta mudwort	PDSCR10050			G4?Q	S2.1	2.1
72 <i>Lindieriella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
73 <i>Melospiza melodia maxillaris</i> Suisun song sparrow	ABPBXA301K			G5T2	S2	SC
74 <i>Melospiza melodia samuelis</i> San Pablo song sparrow	ABPBXA301W			G5T2?	S2?	SC
75 <i>Myrmosula pacifica</i> Antioch multilid wasp	IIHYM15010			GH	SH	
76 <i>Navarretia leucocephala ssp. bakeri</i> Baker's navarretia	PDPLM0C0E1			G4T2	S2.1	1B.1
77 <i>Neostapfia colusana</i> Colusa grass	PMPOA4C010	Threatened	Endangered	G3	S3.1	1B.1
78 Northern Claypan Vernal Pool	CTT44120CA			G1	S1.1	
79 Northern Coastal Salt Marsh	CTT52110CA			G3	S3.2	
80 <i>Nothochrysa californica</i> San Francisco lacewing	IIIEU12010			G1G3	S1S3	
81 <i>Orcuttia inaequalis</i> San Joaquin Valley orcutt grass	PMPOA4G060	Threatened	Endangered	G2	S2.1	1B.1
82 <i>Pandion haliaetus</i> osprey	ABNKC01010			G5	S3	SC
83 <i>Plagiobothrys hystriculus</i> bearded popcorn-flower	PDBOR0V0H0			G1	S1.1	1B.1
84 <i>Pogonichthys macrolepidotus</i> Sacramento splittail	AFCJB34020			G2	S2	SC
85 <i>Polygonum marinense</i> Marin knotweed	PDPGN0L1C0			G1Q	S1.1	3.1
86 <i>Rallus longirostris obsoletus</i> California clapper rail	ABNME05016	Endangered	Endangered	G5T1	S1	
87 <i>Rana aurora draytonii</i> California red-legged frog	AAABH01022	Threatened		G4T2T3	S2S3	SC
88 <i>Rana boylei</i> foothill yellow-legged frog	AAABH01050			G3	S2S3	SC
89 <i>Reithrodontomys raviventris</i> salt-marsh harvest mouse	AMAFF02040	Endangered	Endangered	G1G2	S1S2	
90 <i>Saldula usingeri</i> Wilbur Springs shorebug	IIHEM07010			G1	S1	
91 <i>Senecio aphanactis</i> chaparral ragwort	PDAST8H060			G3?	S1.2	2.2
92 <i>Sorex ornatus sinuosus</i> Suisun shrew	AMABA01103			G5T1	S1	SC
93 <i>Sternula antillarum browni</i> California least tern	ABNNM08103	Endangered	Endangered	G4T2T3Q	S2S3	
94 <i>Symphotrichum lentum</i> Suisun Marsh aster	PDASTE8470			G2	S2.2	1B.2

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Solano County - SB 16.6R, CS 21.8R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
95 <i>Taxidea taxus</i> American badger	AMAJF04010			G5	S4	SC
96 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	
97 <i>Trifolium amoenum</i> two-fork clover	PDFAB40040	Endangered		G1	S1.1	1B.1
98 <i>Trifolium depauperatum</i> var. <i>hydrophilum</i> saline clover	PDFAB400R5			G5T2?	S2.2?	1B.2
99 <i>Tuctoria mucronata</i> Crampton's tuctoria or Solano grass	PMPOA6N020	Endangered	Endangered	G1	S1.1	1B.1
100 <i>Valley Needlegrass Grassland</i>	CTT42110CA			G1	S3.1	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Sutter County - F 28.5R, Sac 77.2

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Actinemys marmorata marmorata</i> northwestern pond turtle	ARAAD02031			G3G4T3	S3	SC
2 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
3 <i>Ambystoma californiense</i> California tiger salamander	AAAAA01180	Threatened		G2G3	S2S3	SC
4 <i>Anthicus antiochensis</i> Antioch Dunes anthicid beetle	IICOL49020			G1	S1	
5 <i>Anthicus sacramento</i> Sacramento anthicid beetle	IICOL49010			G1	S1	
6 <i>Antrozous pallidus</i> pallid bat	AMACC10010			G5	S3	SC
7 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
8 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
9 <i>Branta hutchinsii leucopareia</i> cackling (=Aleutian Canada) goose	ABNJB05035	Delisted		G5T4	S2	
10 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
11 <i>Carduelis lawrencei</i> Lawrence's goldfinch	ABPBY06100			G3G4	S3	
12 <i>Cicindela hirticollis abrupta</i> Sacramento Valley tiger beetle	IICOL02106			G5TH	SH	
13 <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA			G3	S2.1	
14 <i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Candidate	Endangered	G5T3Q	S1	
15 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
16 <i>Dipodomys californicus eximius</i> Marysville California kangaroo rat	AMAFD03071			G4T1	S1	SC
17 <i>Great Valley Cottonwood Riparian Forest</i>	CTT61410CA			G2	S2.1	
18 <i>Great Valley Mixed Riparian Forest</i>	CTT61420CA			G2	S2.2	
19 <i>Great Valley Willow Scrub</i>	CTT63410CA			G3	S3.2	
20 <i>Grus canadensis tabida</i> greater sandhill crane	ABNMK01014		Threatened	G5T4	S2	
21 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
22 <i>Lasiurus blossevillii</i> western red bat	AMACC05060			G5	S3?	
23 <i>Lasiurus cinereus</i> hoary bat	AMACC05030			G5	S4?	SC
24 <i>Layia septentrionalis</i> Colusa layia	PDAST5N0F0			G2	S2.2	1B.2
25 <i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Sutter County - F 28.5R, Sac 77.2

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

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Natural Diversity Database

Selected Elements by Scientific Name - Portrait

Sacramento County - LAR 0.3L, LAR 2.8L, Sac 16.8L, Sac 49.7L, Sac 52.3L, Sac 55.2L, Sac 55.5L

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Accipiter cooperii</i> Cooper's hawk	ABNKC12040			G5	S3	SC
2 <i>Actinemys marmorata</i> western pond turtle	ARAAD02030			G3G4	S3	SC
3 <i>Actinemys marmorata marmorata</i> northwestern pond turtle	ARAAD02031			G3G4T3	S3	SC
4 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
5 <i>Ambystoma californiense</i> California tiger salamander	AAAAA01180	Threatened		G2G3	S2S3	SC
6 <i>Ammodramus savannarum</i> grasshopper sparrow	ABPBXA0020			G5	S2	
7 <i>Andrena blennospermatis</i> A vernal pool andrenid bee	IIHYM35030			G2	S2	
8 <i>Andrena subapasta</i> A vernal pool andrenid bee	IIHYM35050			G1G3	S1S3	
9 <i>Anthicus sacramento</i> Sacramento anthicid beetle	IICOL49010			G1	S1	
10 <i>Antrozous pallidus</i> pallid bat	AMACC10010			G5	S3	SC
11 <i>Aquila chrysaetos</i> golden eagle	ABNKC22010			G5	S3	SC
12 <i>Archoplites interruptus</i> Sacramento perch	AFCQB07010			G3	S1	SC
13 <i>Ardea alba</i> great egret	ABNGA04040			G5	S4	
14 <i>Ardea herodias</i> great blue heron	ABNGA04010			G5	S4	
15 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
16 <i>Atriplex joaquiniana</i> San Joaquin spearscale	PDCHE041F3			G2	S2.1	1B.2
17 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
18 <i>Branchinecta mesovallensis</i> midvalley fairy shrimp	ICBRA03150			G2	S2	
19 <i>Buteo regalis</i> ferruginous hawk	ABNKC19120			G4	S3S4	SC
20 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
21 <i>Carex comosa</i> bristly sedge	PMCYP032Y0			G5	S2?	2.1
22 <i>Coastal Brackish Marsh</i>	CTT52200CA			G2	S2.1	
23 <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA			G3	S2.1	
24 <i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Candidate	Endangered	G5T3Q	S1	

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 Selected Elements by Scientific Name - Portrait
 Sacramento County - LAR 0.3L, LAR 2.8L, Sac 16.8L, Sac 49.7L, Sac 52.3L, Sac 55.2L, Sac 55.5L

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
25 <i>Cordylanthus mollis ssp. mollis</i> soft bird's-beak	PDSCR0J0D2	Endangered	Rare	G2T1	S1.1	1B.2
26 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
27 <i>Downingia pusilla</i> dwarf downingia	PDCAM060C0			G3	S3.1	2.2
28 <i>Dumontia oregonensis</i> A water flea	ICBRA23010			G1G3	S1	
29 <i>Egretta thula</i> snowy egret	ABNGA06030			G5	S4	
30 <i>Elanus leucurus</i> white-tailed kite	ABNKC06010			G5	S3	
31 <i>Elderberry Savanna</i>	CTT63440CA			G2	S2.1	
32 <i>Eriogonum apricum var. apricum</i> lone buckwheat	PDPGN080F1	Endangered	Endangered	G2T2	S2.1	1B.1
33 <i>Eryngium pinnatisectum</i> Tuolumne button-celery	PDAP10Z0P0			G3	S3.2	1B.2
34 <i>Geothlypis trichas sinuosa</i> saltmarsh common yellowthroat	ABPBX1201A			G5T2	S2	SC
35 <i>Gratiola heterosepala</i> Boggs Lake hedge-hyssop	PDSCR0R060		Endangered	G3	S3.1	1B.2
36 <i>Great Valley Mixed Riparian Forest</i>	CTT61420CA			G2	S2.2	
37 <i>Great Valley Valley Oak Riparian Forest</i>	CTT61430CA			G1	S1.1	
38 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
39 <i>Hydrochara rickseckeri</i> Ricksecker's water scavenger beetle	IICOL5V010			G1G2	S1S2	
40 <i>Hypomesus transpacificus</i> Delta smelt	AFCHB01040	Threatened	Threatened	G1	S1	
41 <i>Isocoma arguta</i> Carquinez goldenbush	PDAST57050			G1	S1.1	1B.1
42 <i>Juglans hindsii</i> Northern California black walnut	PDJUG02040			G1	S1.1	1B.1
43 <i>Juncus leiopermus var. ahartii</i> Ahart's dwarf rush	PMJUN011L1			G2T1	S1.2	1B.2
44 <i>Lasionycteris noctivagans</i> silver-haired bat	AMACC02010			G5	S3S4	SC
45 <i>Lasiurus blossevillii</i> western red bat	AMACC05060			G5	S3?	
46 <i>Lasiurus cinereus</i> hoary bat	AMACC05030			G5	S4?	SC
47 <i>Lathyrus jepsonii var. jepsonii</i> Delta tule pea	PDFAB250D2			G5T2	S2.2	1B.2
48 <i>Legenere limosa</i> legenere	PDCAM0C010			G2	S2.2	1B.1

California Department of Fish and Game
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Selected Elements by Scientific Name - Portrait
Sacramento County - LAR 0.3L, LAR 2.8L, Sac 16.8L, Sac 49.7L, Sac 52.3L, Sac 55.2L, Sac 55.5L

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
49 <i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
50 <i>Lilaeopsis masonii</i> Mason's lilaeopsis	PDAPI19030		Rare	G3	S3.1	1B.1
51 <i>Limosella subulata</i> Delta mudwort	PDSCR10050			G4?Q	S2.1	2.1
52 <i>Linderiella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
53 <i>Melospiza melodia maxillaris</i> Suisun song sparrow	ABPBXA301K			G5T2	S2	SC
54 <i>Navarretia myersii</i> ssp. <i>myersii</i> pincushion navarretia	PDPLM0C0X1			G1T1	S1.1	1B.1
55 <i>Northern Claypan Vernal Pool</i>	CTT44120CA			G1	S1.1	
56 <i>Northern Hardpan Vernal Pool</i>	CTT44110CA			G3	S3.1	
57 <i>Nycticorax nycticorax</i> black-crowned night heron	ABNGA11010			G5	S3	
58 <i>Oenothera deltoides</i> ssp. <i>howellii</i> Antioch Dunes evening-primrose	PDONA0C0B4	Endangered	Endangered	G5T1	S1.1	1B.1
59 <i>Orcuttia tenuis</i> slender orcutt grass	PMPOA4G050	Threatened	Endangered	G3	S3.1	1B.1
60 <i>Orcuttia viscida</i> Sacramento orcutt grass	PMPOA4G070	Endangered	Endangered	G1	S1.1	1B.1
61 <i>Phalacrocorax auritus</i> double-crested cormorant	ABNFD01020			G5	S3	SC
62 <i>Pogonichthys macrolepidotus</i> Sacramento splittail	AFCJB34020			G2	S2	SC
63 <i>Progne subis</i> purple martin	ABPAU01010			G5	S3	SC
64 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	
65 <i>Sagittaria sanfordii</i> Sanford's arrowhead	PMALI040Q0			G3	S3.2	1B.2
66 <i>Scutellaria lateriflora</i> side-flowering skullcap	PDLAM1U0Q0			G5	S1.2	2.2
67 <i>Spea hammondii</i> western spadefoot	AAABF02020			G3	S3	SC
68 <i>Symphotrichum lentum</i> Suisun Marsh aster	PDASTE8470			G2	S2.2	1B.2
69 <i>Taxidea taxus</i> American badger	AMAJF04010			G5	S4	SC
70 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	
71 <i>Valley Needlegrass Grassland</i>	CTT42110CA			G1	S3.1	
72 <i>Valley Oak Woodland</i>	CTT71130CA			G3	S2.1	
73 <i>Xanthocephalus xanthocephalus</i> yellow-headed blackbird	ABPBXB3010			G5	S3S4	

California Department of Fish and Game
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 Selected Elements by Scientific Name - Portrait
 Yolo County - Sac 42.7R, Sac 53.5R, Sac 57.2R, Sac 83.9R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Actinemys marmorata marmorata</i> northwestern pond turtle	ARAAD02031			G3G4T3	S3	SC
2 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
3 <i>Ambystoma californiense</i> California tiger salamander	AAAAA01180	Threatened		G2G3	S2S3	SC
4 <i>Amsinckia lunaris</i> bent-flowered fiddleneck	PDBOR01070			G2	S2.2	1B.2
5 <i>Andrena blennospermatis</i> A vernal pool andrenid bee	IIHYM35030			G2	S2	
6 <i>Antrozous pallidus</i> pallid bat	AMACC10010			G5	S3	SC
7 <i>Ardea alba</i> great egret	ABNGA04040			G5	S4	
8 <i>Ardea herodias</i> great blue heron	ABNGA04010			G5	S4	
9 <i>Astragalus rattanii var. jepsonianus</i> Jepson's milk-vetch	PDFAB0F7E1			G4T2	S2.2	1B.2
10 <i>Astragalus tener var. ferrisiae</i> Ferris' milk-vetch	PDFAB0F8R3			G1T1	S1.1	1B.1
11 <i>Astragalus tener var. tener</i> alkali milk-vetch	PDFAB0F8R1			G1T1	S1.1	1B.2
12 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
13 <i>Atriplex cordulata</i> heartscale	PDCHE040B0			G2?	S2.2?	1B.2
14 <i>Atriplex depressa</i> brittlescale	PDCHE042L0			G2Q	S2.2	1B.2
15 <i>Atriplex joaquiniana</i> San Joaquin spearscale	PDCHE041F3			G2	S2.1	1B.2
16 <i>Branchinecta conservatio</i> Conservancy fairy shrimp	ICBRA03010	Endangered		G1	S1	
17 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
18 <i>Branchinecta mesovallensis</i> midvalley fairy shrimp	ICBRA03150			G2	S2	
19 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
20 <i>California macrophylla</i> round-leaved filaree	PDGER01070			G3	S3.1	1B.1
21 <i>Castilleja rubicundula ssp. rubicundula</i> pink creamsacs	PDSCR0D482			G5T2	S2.2	1B.2
22 <i>Charadrius alexandrinus nivosus</i> western snowy plover	ABNNB03031	Threatened		G4T3	S2	SC
23 <i>Charadrius montanus</i> mountain plover	ABNNB03100			G2	S2?	SC

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 Selected Elements by Scientific Name - Portrait
 Yolo County - Sac 42.7R, Sac 53.5R, Sac 57.2R, Sac 83.9R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
24 <i>Cicindela hirticollis abrupta</i> Sacramento Valley tiger beetle	IICOL02106			G5TH	SH	
25 <i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Candidate	Endangered	G5T3Q	S1	
26 <i>Cordylanthus palmatus</i> palmate-bracted bird's-beak	PDSCR0J0J0	Endangered	Endangered	G1	S1.1	1B.1
27 <i>Corynorhinus townsendii</i> Townsend's big-eared bat	AMACC08010			G4	S2S3	SC
28 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
29 <i>Elanus leucurus</i> white-tailed kite	ABNKC06010			G5	S3	
30 <i>Elderberry Savanna</i>	CTT63440CA			G2	S2.1	
31 <i>Eriogonum nervulosum</i> Snow Mountain buckwheat	PDPGN08440			G2	S2.2	1B.2
32 <i>Falco mexicanus</i> prairie falcon	ABNKD06090			G5	S3	SC
33 <i>Fritillaria pluriflora</i> adobe-lily	PMLIL0V0F0			G2	S2.2	1B.2
34 <i>Great Valley Cottonwood Riparian Forest</i>	CTT61410CA			G2	S2.1	
35 <i>Great Valley Mixed Riparian Forest</i>	CTT61420CA			G2	S2.2	
36 <i>Harmonia hallii</i> Hall's harmonia	PDAST650A0			G2	S2.2	1B.2
37 <i>Hesperolinon drymarioides</i> drymaria-like western flax	PDLIN01090			G2	S2.2	1B.2
38 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
39 <i>Juglans hindsii</i> Northern California black walnut	PDJUG02040			G1	S1.1	1B.1
40 <i>Lasionycteris noctivagans</i> silver-haired bat	AMACC02010			G5	S3S4	SC
41 <i>Lasiurus blossevillii</i> western red bat	AMACC05060			G5	S3?	
42 <i>Lasiurus cinereus</i> hoary bat	AMACC05030			G5	S4?	SC
43 <i>Layia septentrionalis</i> Colusa layia	PDAST5N0F0			G2	S2.2	1B.2
44 <i>Lepidium latipes var. heckardii</i> Heckard's pepper-grass	PDBRA1M0K1			G4T1	S1.2	1B.2
45 <i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
46 <i>Linderiella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
47 <i>Lytta molesta</i> molestan blister beetle	IICOL4C030			G2	S2	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Yolo County - Sac 42.7R, Sac 53.5R, Sac 57.2R, Sac 83.9R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
48 <i>Myrmosula pacifica</i> Antioch multilid wasp	IIHYM15010			GH	SH	
49 <i>Navarretia leucocephala ssp. bakeri</i> Baker's navarretia	PDPLM0C0E1			G4T2	S2.1	1B.1
50 <i>Neostapfia colusana</i> Colusa grass	PMPOA4C010	Threatened	Endangered	G3	S3.1	1B.1
51 <i>Nycticorax nycticorax</i> black-crowned night heron	ABNGA11010			G5	S3	
52 <i>Plegadis chihi</i> white-faced ibis	ABNGE02020			G5	S1	SC
53 <i>Pogonichthys macrolepidotus</i> Sacramento splittail	AFCJB34020			G2	S2	SC
54 <i>Rana boylei</i> foothill yellow-legged frog	AAABH01050			G3	S2S3	SC
55 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	
56 <i>Spea hammondi</i> western spadefoot	AAABF02020			G3	S3	SC
57 <i>Streptanthus morrisonii</i> see individual subspecies!	PDBRA2G0S0			G2	S2	
58 <i>Taxidea taxus</i> American badger	AMAJF04010			G5	S4	SC
59 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	
60 <i>Tuctoria mucronata</i> Crampton's tuctoria or Solano grass	PMPOA6N020	Endangered	Endangered	G1	S1.1	1B.1
61 <i>Valley Oak Woodland</i>	CTT71130CA			G3	S2.1	
62 <i>Xanthocephalus xanthocephalus</i> yellow-headed blackbird	ABPBXB3010			G5	S3S4	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Isleton - SB 16.6R, CS 21.8R, Sac 16.8

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Actinemys marmorata</i> western pond turtle	ARAAD02030			G3G4	S3	SC
2 <i>Actinemys marmorata marmorata</i> northwestern pond turtle	ARAAD02031			G3G4T3	S3	SC
3 <i>Anthicus sacramento</i> Sacramento anthicid beetle	IICOL49010			G1	S1	
4 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
5 <i>Carex comosa</i> bristly sedge	PMCYP032Y0			G5	S2?	2.1
6 <i>Hypomesus transpacificus</i> Delta smelt	AFCHB01040	Threatened	Threatened	G1	S1	
7 <i>Juglans hindsii</i> Northern California black walnut	PDJUG02040			G1	S1.1	1B.1
8 <i>Lasiurus blossevillii</i> western red bat	AMACC05060			G5	S3?	
9 <i>Lathyrus jepsonii</i> var. <i>jepsonii</i> Delta tule pea	PDFAB250D2			G5T2	S2.2	1B.2
10 <i>Lilaeopsis masonii</i> Mason's lilaeopsis	PDAPI19030		Rare	G3	S3.1	1B.1
11 <i>Limosella subulata</i> Delta mudwort	PDSCR10050			G4?Q	S2.1	2.1
12 <i>Sagittaria sanfordii</i> Sanford's arrowhead	PMALI040Q0			G3	S3.2	1B.2
13 <i>Scutellaria lateriflora</i> side-flowering skullcap	PDLAM1U0Q0			G5	S1.2	2.2
14 <i>Symphotrichum lentum</i> Suisun Marsh aster	PDASTE8470			G2	S2.2	1B.2

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Rio Vista - SB 16.6R, CS 21.8R, Sac 16.8L

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Anthicus antiochensis</i> Antioch Dunes anthicid beetle	IICOL49020			G1	S1	
2 <i>Anthicus sacramento</i> Sacramento anthicid beetle	IICOL49010			G1	S1	
3 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
4 <i>Atriplex joaquiniana</i> San Joaquin spearscale	PDCHE041F3			G2	S2.1	1B.2
5 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
6 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
7 <i>Isocoma arguta</i> Carquinez goldenbush	PDAST57050			G1	S1.1	1B.1
8 <i>Juglans hindsii</i> Northern California black walnut	PDJUG02040			G1	S1.1	1B.1
9 <i>Lasiurus blossevillii</i> western red bat	AMACC05060			G5	S3?	
10 <i>Lasiurus cinereus</i> hoary bat	AMACC05030			G5	S4?	SC
11 <i>Lathyrus jepsonii</i> var. <i>jepsonii</i> Delta tule pea	PDFAB250D2			G5T2	S2.2	1B.2
12 <i>Lilaeopsis masonii</i> Mason's lilaeopsis	PDAPI19030		Rare	G3	S3.1	1B.1
13 <i>Limosella subulata</i> Delta mudwort	PDSCR10050			G4?Q	S2.1	2.1
14 <i>Symphotrichum lentum</i> Suisun Marsh aster	PDASTE8470			G2	S2.2	1B.2

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Jersey Island - SB 16.6R, Sac 16.8L

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Actinemys marmorata</i> western pond turtle	ARAAD02030			G3G4	S3	SC
2 <i>Anniella pulchra pulchra</i> silvery legless lizard	ARACC01012			G3G4T3T4 Q	S3	SC
3 <i>Ardea herodias</i> great blue heron	ABNGA04010			G5	S4	
4 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
5 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
6 <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA			G3	S2.1	
7 <i>Cordylanthus mollis ssp. mollis</i> soft bird's-beak	PDSCR0J0D2	Endangered	Rare	G2T1	S1.1	1B.2
8 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
9 <i>Hygrotus curvipes</i> curved-foot hygrotus diving beetle	IICOL38030			G1	S1	
10 <i>Hypomesus transpacificus</i> Delta smelt	AFCHB01040	Threatened	Threatened	G1	S1	
11 <i>Isocoma arguta</i> Carquinez goldenbush	PDAST57050			G1	S1.1	1B.1
12 <i>Lasiurus blossevillei</i> western red bat	AMACC05060			G5	S3?	
13 <i>Lasiurus cinereus</i> hoary bat	AMACC05030			G5	S4?	SC
14 <i>Laterallus jamaicensis coturniculus</i> California black rail	ABNME03041		Threatened	G4T1	S1	
15 <i>Lathyrus jepsonii var. jepsonii</i> Delta tule pea	PDFAB250D2			G5T2	S2.2	1B.2
16 <i>Lilaeopsis masonii</i> Mason's lilaeopsis	PDAPI19030		Rare	G3	S3.1	1B.1
17 <i>Limosella subulata</i> Delta mudwort	PDSCR10050			G4?Q	S2.1	2.1
18 <i>Oenothera deltoides ssp. howellii</i> Antioch Dunes evening-primrose	PDONA0C0B4	Endangered	Endangered	G5T1	S1.1	1B.1
19 <i>Perdita scitula antiochensis</i> Antioch andrenid bee	IHYM01031			G1T1	S1	
20 <i>Potamogeton zosteriformis</i> eel-grass pondweed	PMPOT03160			G5	S2.2?	2.2
21 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	
22 <i>Scutellaria lateriflora</i> side-flowering skullcap	PDLAM1U0Q0			G5	S1.2	2.2
23 <i>Symphotrichum lentum</i> Suisun Marsh aster	PDASTE8470			G2	S2.2	1B.2

California Department of Fish and Game
Natural Diversity Database
Selected Elements by Scientific Name - Portrait
Jersey Island - SB 16.6R, Sac 16.8L

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
24 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Bouldin Island - SB 16.6R, Sac 16.8

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Actinemys marmorata</i> western pond turtle	ARAAD02030			G3G4	S3	SC
2 <i>Actinemys marmorata marmorata</i> northwestern pond turtle	ARAAD02031			G3G4T3	S3	SC
3 <i>Ardea herodias</i> great blue heron	ABNGA04010			G5	S4	
4 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
5 <i>Carex comosa</i> bristly sedge	PMCYP032Y0			G5	S2?	2.1
6 <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA			G3	S2.1	
7 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
8 <i>Lateralus jamaicensis coturniculus</i> California black rail	ABNME03041		Threatened	G4T1	S1	
9 <i>Lathyrus jepsonii var. jepsonii</i> Delta tule pea	PDFAB250D2			G5T2	S2.2	1B.2
10 <i>Lilaeopsis masonii</i> Mason's lilaeopsis	PDAP119030		Rare	G3	S3.1	1B.1
11 <i>Limosella subulata</i> Delta mudwort	PDSCR10050			G4?Q	S2.1	2.1
12 <i>Potamogeton zosteriformis</i> eel-grass pondweed	PMPOT03160			G5	S2.2?	2.2
13 <i>Scutellaria galericulata</i> marsh skullcap	PDLAM1U0J0			G5	S2.2?	2.2
14 <i>Scutellaria lateriflora</i> side-flowering skullcap	PDLAM1U0Q0			G5	S1.2	2.2
15 <i>Symphotrichum lentum</i> Suisun Marsh aster	PDASTE8470			G2	S2.2	1B.2
16 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Birds Landing - SB 16.6R, CS 21.8R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Ambystoma californiense</i> California tiger salamander	AAAAA01180	Threatened		G2G3	S2S3	SC
3 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
4 <i>Atriplex cordulata</i> heartscale	PDCHE040B0			G2?	S2.2?	1B.2
5 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
6 <i>Branchinecta mesovallensis</i> midvalley fairy shrimp	ICBRA03150			G2	S2	
7 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
8 <i>Centromadia parryi ssp. parryi</i> pappose tarplant	PDAST4R0P2			G4?T2	S2.2	1B.2
9 <i>Charadrius montanus</i> mountain plover	ABNNB03100			G2	S2?	SC
10 <i>Fritillaria liliacea</i> fragrant fritillary	PMLIL0V0C0			G2	S2.2	1B.2
11 <i>Isocoma arguta</i> Carquinez goldenbush	PDAST57050			G1	S1.1	1B.1
12 <i>Northern Claypan Vernal Pool</i>	CTT44120CA			G1	S1.1	
13 <i>Plagiobothrys hystriculus</i> bearded popcorn-flower	PDBOR0V0H0			G1	S1.1	1B.1
14 <i>Valley Needlegrass Grassland</i>	CTT42110CA			G1	S3.1	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Antioch North - SB 16.6R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Actinemys marmorata</i> western pond turtle	ARAAD02030			G3G4	S3	SC
2 <i>Ambystoma californiense</i> California tiger salamander	AAAAA01180	Threatened		G2G3	S2S3	SC
3 <i>Anthicus antiochensis</i> Antioch Dunes anthicid beetle	IICOL49020			G1	S1	
4 <i>Apodemia mormo langei</i> Lange's metalmark butterfly	IILEPH7012	Endangered		G5T1	S1	
5 <i>Archoplites interruptus</i> Sacramento perch	AFCQB07010			G3	S1	SC
6 <i>Arctostaphylos auriculata</i> Mt. Diablo manzanita	PDERI04040			G2	S2.2	1B.3
7 <i>Astragalus tener var. tener</i> alkali milk-vetch	PDFAB0F8R1			G1T1	S1.1	1B.2
8 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
9 <i>Atriplex joaquiniana</i> San Joaquin spearscale	PDCHE041F3			G2	S2.1	1B.2
10 <i>Blepharizonia plumosa</i> big tarplant	PDAST1C011			G1	S1.1	1B.1
11 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
12 <i>California macrophylla</i> round-leaved filaree	PDGER01070			G3	S3.1	1B.1
13 <i>Coastal Brackish Marsh</i>	CTT52200CA			G2	S2.1	
14 <i>Coelus gracilis</i> San Joaquin dune beetle	IICOL4A020			G1	S1	
15 <i>Cordylanthus mollis ssp. mollis</i> soft bird's-beak	PDSCR0J0D2	Endangered	Rare	G2T1	S1.1	1B.2
16 <i>Cryptantha hooveri</i> Hoover's cryptantha	PDBOR0A190			GH	SH	1A
17 <i>Downingia pusilla</i> dwarf downingia	PDCAM060C0			G3	S3.1	2.2
18 <i>Efferia antiochi</i> Antioch efferian robberfly	IIDIP07010			G1G3	S1S3	
19 <i>Elanus leucurus</i> white-tailed kite	ABNKC06010			G5	S3	
20 <i>Eriogonum truncatum</i> Mt. Diablo buckwheat	PDPGN085Z0			G1	S1.1	1B.1
21 <i>Erysimum capitatum var. angustatum</i> Contra Costa wallflower	PDBRA16052	Endangered	Endangered	G5T1	S1.1	1B.1
22 <i>Eschscholzia rhombipetala</i> diamond-petaled California poppy	PDPAP0A0D0			G1	S1.1	1B.1
23 <i>Eucerceris ruficeps</i> redheaded sphecid wasp	IIHYM18010			G1G3	S1S2	

California Department of Fish and Game
Natural Diversity Database
Selected Elements by Scientific Name - Portrait
Antioch North - SB 16.6R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
24 <i>Fritillaria liliacea</i> fragrant fritillary	PMLIL0V0C0			G2	S2.2	1B.2
25 <i>Geothlypis trichas sinuosa</i> saltmarsh common yellowthroat	ABPBX1201A			G5T2	S2	SC
26 <i>Hesperolinon breweri</i> Brewer's western flax	PDLIN01030			G2	S2.2	1B.2
27 <i>Hypomesus transpacificus</i> Delta smelt	AFCHB01040	Threatened	Threatened	G1	S1	
28 <i>Idiostatus middlekauffi</i> Middlekauff's shieldback katydid	IIORT31010			G1G2	S1	
29 <i>Isocoma arguta</i> Carquinez goldenbush	PDAST57050			G1	S1.1	1B.1
30 <i>Lasiurus blossevillii</i> western red bat	AMACC05060			G5	S3?	
31 <i>Lasthenia conjugens</i> Contra Costa goldfields	PDAST5L040	Endangered		G1	S1.1	1B.1
32 <i>Laterallus jamaicensis coturniculus</i> California black rail	ABNME03041		Threatened	G4T1	S1	
33 <i>Lathyrus jepsonii</i> var. <i>jepsonii</i> Delta tule pea	PDFAB250D2			G5T2	S2.2	1B.2
34 <i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
35 <i>Lilaeopsis masonii</i> Mason's lilaeopsis	PDAPH19030		Rare	G3	S3.1	1B.1
36 <i>Limosella subulata</i> Delta mudwort	PDSCR10050			G4?Q	S2.1	2.1
37 <i>Linderiella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
38 <i>Madia radiata</i> showy madia	PDAST650E0			G2	S2.1	1B.1
39 <i>Melospiza melodia maxillaris</i> Suisun song sparrow	ABPBXA301K			G5T2	S2	SC
40 <i>Metapogon hurdi</i> Hurd's metapogon robberfly	IIDIP08010			G1G3	S1S3	
41 <i>Myrmosula pacifica</i> Antioch multilid wasp	IIHYM15010			GH	SH	
42 <i>Oenothera deltoides</i> ssp. <i>howellii</i> Antioch Dunes evening-primrose	PDONA0C0B4	Endangered	Endangered	G5T1	S1.1	1B.1
43 <i>Perdita scitula antiochensis</i> Antioch andrenid bee	IIHYM01031			G1T1	S1	
44 <i>Phalacrocorax auritus</i> double-crested cormorant	ABNFD01020			G5	S3	SC
45 <i>Philanthus nasalis</i> Antioch specid wasp	IIHYM20010			G1	S1	
46 <i>Reithrodontomys raviventris</i> salt-marsh harvest mouse	AMAFF02040	Endangered	Endangered	G1G2	S1S2	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Antioch North - SB 16.6R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
47 <i>Sphecodogastra antiochensis</i> Antioch Dunes halcetid bee	IIHYM78010			G1	S1	
48 <i>Stabilized Interior Dunes</i>	CTT23100CA			G1	S1.1	
49 <i>Symphotrichum lentum</i> Suisun Marsh aster	PDASTE8470			G2	S2.2	1B.2
50 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Elk Grove - LAR 2.8L

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Accipiter cooperii</i> Cooper's hawk	ABNKC12040			G5	S3	SC
2 <i>Actinemys marmorata marmorata</i> northwestern pond turtle	ARAAD02031			G3G4T3	S3	SC
3 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
4 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
5 <i>Branchinecta mesovallensis</i> midvalley fairy shrimp	ICBRA03150			G2	S2	
6 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
7 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
8 <i>Downingia pusilla</i> dwarf downingia	PDCAM060C0			G3	S3.1	2.2
9 <i>Elanus leucurus</i> white-tailed kite	ABNKC06010			G5	S3	
10 <i>Gratiola heterosepala</i> Boggs Lake hedge-hyssop	PDSCR0R060		Endangered	G3	S3.1	1B.2
11 <i>Great Valley Valley Oak Riparian Forest</i>	CTT61430CA			G1	S1.1	
12 <i>Legenere limosa</i> legenere	PDCAM0C010			G2	S2.2	1B.1
13 <i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
14 <i>Linderiella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
15 <i>Northern Hardpan Vernal Pool</i>	CTT44110CA			G3	S3.1	
16 <i>Orcuttia tenuis</i> slender orcutt grass	PMPOA4G050	Threatened	Endangered	G3	S3.1	1B.1
17 <i>Orcuttia viscida</i> Sacramento orcutt grass	PMPOA4G070	Endangered	Endangered	G1	S1.1	1B.1
18 <i>Sagittaria sanfordii</i> Sanford's arrowhead	PMALI040Q0			G3	S3.2	1B.2
19 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Accipiter cooperii</i> Cooper's hawk	ABNKC12040			G5	S3	SC
2 <i>Actinemys marmorata marmorata</i> northwestern pond turtle	ARAAD02031			G3G4T3	S3	SC
3 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
4 <i>Ardea alba</i> great egret	ABNGA04040			G5	S4	
5 <i>Ardea herodias</i> great blue heron	ABNGA04010			G5	S4	
6 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
7 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
8 <i>Branchinecta mesoallensis</i> midvalley fairy shrimp	ICBRA03150			G2	S2	
9 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
10 <i>Downingia pusilla</i> dwarf downingia	PDCAM060C0			G3	S3.1	2.2
11 <i>Juglans hindsii</i> Northern California black walnut	PDJUG02040			G1	S1.1	1B.1
12 <i>Legenere limosa</i> legenere	PDCAM0C010			G2	S2.2	1B.1
13 <i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
14 <i>Linderiella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
15 <i>Northern Hardpan Vernal Pool</i>	CTT44110CA			G3	S3.1	
16 <i>Nycticorax nycticorax</i> black-crowned night heron	ABNGA11010			G5	S3	
17 <i>Phalacrocorax auritus</i> double-crested cormorant	ABNFD01020			G5	S3	SC
18 <i>Pogonichthys macrolepidotus</i> Sacramento splittail	AFCJB34020			G2	S2	SC
19 <i>Sagittaria sanfordii</i> Sanford's arrowhead	PMALI040Q0			G3	S3.2	1B.2
20 <i>Taxidea taxus</i> American badger	AMAJF04010			G5	S4	SC
21 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	
22 <i>Xanthocephalus xanthocephalus</i> yellow-headed blackbird	ABPBXB3010			G5	S3S4	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Bruceville - Sac 16.8L, Sac 42.7R, Sac 49.7L

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Actinemys marmorata marmorata</i> northwestern pond turtle	ARAAD02031			G3G4T3	S3	SC
2 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
3 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
4 <i>Carex comosa</i> bristly sedge	PMCYP032Y0			G5	S2?	2.1
5 <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA			G3	S2.1	
6 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
7 <i>Great Valley Mixed Riparian Forest</i>	CTT61420CA			G2	S2.2	
8 <i>Great Valley Valley Oak Riparian Forest</i>	CTT61430CA			G1	S1.1	
9 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
10 <i>Hydrochara rickseckeri</i> Ricksecker's water scavenger beetle	IICOL5V010			G1G2	S1S2	
11 <i>Lathyrus jepsonii var. jepsonii</i> Delta tule pea	PDFAB250D2			G5T2	S2.2	1B.2
12 <i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
13 <i>Lilaeopsis masonii</i> Mason's lilaeopsis	PDAP119030		Rare	G3	S3.1	1B.1
14 <i>Northern Hardpan Vernal Pool</i>	CTT44110CA			G3	S3.1	
15 <i>Scutellaria lateriflora</i> side-flowering skullcap	PDLAM1U0Q0			G5	S1.2	2.2
16 <i>Taxidea taxus</i> American badger	AMAJF04010			G5	S4	SC
17 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	
18 <i>Valley Oak Woodland</i>	CTT71130CA			G3	S2.1	

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
2 <i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Candidate	Endangered	G5T3Q	S1	
3 <i>Juglans hindsii</i> Northern California black walnut	PDJUG02040			G1	S1.1	1B.1
4 <i>Pogonichthys macrolepidotus</i> Sacramento splittail	AFCJB34020			G2	S2	SC
5 <i>Taxidea taxus</i> American badger	AMAJF04010			G5	S4	SC
6 <i>Xanthocephalus xanthocephalus</i> yellow-headed blackbird	ABPBXB3010			G5	S3S4	

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Ammodramus savannarum</i> grasshopper sparrow	ABPBXA0020			G5	S2	
2 <i>Astragalus tener</i> var. <i>ferrisiae</i> Ferris' milk-vetch	PDFAB0F8R3			G1T1	S1.1	1B.1
3 <i>Astragalus tener</i> var. <i>tener</i> alkali milk-vetch	PDFAB0F8R1			G1T1	S1.1	1B.2
4 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
5 <i>Atriplex joaquiniana</i> San Joaquin spearscale	PDCHE041F3			G2	S2.1	1B.2
6 <i>Branchinecta conservatio</i> Conservancy fairy shrimp	ICBRA03010	Endangered		G1	S1	
7 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
8 <i>Branchinecta mesovallensis</i> midvalley fairy shrimp	ICBRA03150			G2	S2	
9 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
10 <i>Elanus leucurus</i> white-tailed kite	ABNKC06010			G5	S3	
11 <i>Lepidium latipes</i> var. <i>heckardii</i> Heckard's pepper-grass	PDBRA1M0K1			G4T1	S1.2	1B.2
12 <i>Lepidurus packardi</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
13 <i>Lindleriella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
14 <i>Navarretia leucocephala</i> ssp. <i>bakeri</i> Baker's navarretia	PDPLM0C0E1			G4T2	S2.1	1B.1
15 <i>Neostapfia colusana</i> Colusa grass	PMPOA4C010	Threatened	Endangered	G3	S3.1	1B.1
16 <i>Tuctoria mucronata</i> Crampton's tuctoria or Solano grass	PMPOA6N020	Endangered	Endangered	G1	S1.1	1B.1

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Liberty Island - Sb 16.6R, CS 21.8R, Sac 16.8L, Sac 42.7R, Sac 49.7L

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
2 <i>Atriplex joaquiniana</i> San Joaquin spearscale	PDCHE041F3			G2	S2.1	1B.2
3 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
4 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
5 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
6 <i>Lathyrus jepsonii</i> var. <i>jepsonii</i> Delta tule pea	PDFAB250D2			G5T2	S2.2	1B.2
7 <i>Lepidium latipes</i> var. <i>heckardii</i> Heckard's pepper-grass	PDBRA1M0K1			G4T1	S1.2	1B.2
8 <i>Lilaeopsis masonii</i> Mason's lilaeopsis	PDAPI19030		Rare	G3	S3.1	1B.1
9 <i>Linderiella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
10 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Courtland - SB 16.6R, CS 21.8R, Sac 16.8L, Sac 42.7R, Sac 49.7L

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Actinemys marmorata</i> western pond turtle	ARAAD02030			G3G4	S3	SC
2 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
3 <i>Carex comosa</i> bristly sedge	PMCYP032Y0			G5	S2?	2.1
4 <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA			G3	S2.1	
5 <i>Elanus leucurus</i> white-tailed kite	ABNKC06010			G5	S3	
6 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
7 <i>Juglans hindsii</i> Northern California black walnut	PDJUG02040			G1	S1.1	1B.1
8 <i>Lathyrus jepsonii</i> var. <i>jepsonii</i> Delta tule pea	PDFAB250D2			G5T2	S2.2	1B.2
9 <i>Pogonichthys macrolepidotus</i> Sacramento splittail	AFCJB34020			G2	S2	SC
10 <i>Scutellaria lateriflora</i> side-flowering skullcap	PDLAM1U0Q0			G5	S1.2	2.2
11 <i>Taxidea taxus</i> American badger	AMAJF04010			G5	S4	SC
12 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Dixon - CS 21.8R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Ambystoma californiense</i> California tiger salamander	AAAAA01180	Threatened		G2G3	S2S3	SC
2 <i>Astragalus tener var. tener</i> alkali milk-vetch	PDFAB0F8R1			G1T1	S1.1	1B.2
3 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
4 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
5 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
6 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
7 <i>Elanus leucurus</i> white-tailed kite	ABNKC06010			G5	S3	
8 <i>Fritillaria pluriflora</i> adobe-lily	PMLILOV0F0			G2	S2.2	1B.2

California Department of Fish and Game
Natural Diversity Database
Selected Elements by Scientific Name - Portrait
Dozier - SB 16.6R, CS 21.8R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Ambystoma californiense</i> California tiger salamander	AAAAA01180	Threatened		G2G3	S2S3	SC
3 <i>Andrena blennospermatis</i> A vernal pool andrenid bee	IIHYM35030			G2	S2	
4 <i>Ardea alba</i> great egret	ABNGA04040			G5	S4	
5 <i>Astragalus tener var. ferrisiae</i> Ferris' milk-vetch	PDFAB0F8R3			G1T1	S1.1	1B.1
6 <i>Astragalus tener var. tener</i> alkali milk-vetch	PDFAB0F8R1			G1T1	S1.1	1B.2
7 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
8 <i>Atriplex cordulata</i> heartscale	PDCHE040B0			G2?	S2.2?	1B.2
9 <i>Atriplex depressa</i> brittlescale	PDCHE042L0			G2Q	S2.2	1B.2
10 <i>Atriplex joaquiniana</i> San Joaquin spearscale	PDCHE041F3			G2	S2.1	1B.2
11 <i>Atriplex persistens</i> vernal pool smallscale	PDCHE042P0			G2	S2.2	1B.2
12 <i>Branchinecta conservatio</i> Conservancy fairy shrimp	ICBRA03010	Endangered		G1	S1	
13 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
14 <i>Branchinecta mesovallensis</i> midvalley fairy shrimp	ICBRA03150			G2	S2	
15 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
16 <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA			G3	S2.1	
17 <i>Downingia pusilla</i> dwarf downingia	PDCAM060C0			G3	S3.1	2.2
18 <i>Elaphrus viridis</i> Delta green ground beetle	IICOL36010	Threatened		G1	S1	
19 <i>Fritillaria liliacea</i> fragrant fritillary	PMLIL0V0C0			G2	S2.2	1B.2
20 <i>Gratiola heterosepala</i> Boggs Lake hedge-hyssop	PDSCR0R060		Endangered	G3	S3.1	1B.2
21 <i>Hydrochara rickseckeri</i> Ricksecker's water scavenger beetle	IICOL5V010			G1G2	S1S2	
22 <i>Isocoma arguta</i> Carquinez goldenbush	PDAST57050			G1	S1.1	1B.1
23 <i>Lathyrus jepsonii var. jepsonii</i> Delta tule pea	PDFAB250D2			G5T2	S2.2	1B.2

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Dozier - SB 16.6R, CS 21.8R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
24 <i>Legenere limosa</i> legenere	PDCAM0C010			G2	S2.2	1B.1
25 <i>Lepidium latipes var. heckardii</i> Heckard's pepper-grass	PDBRA1M0K1			G4T1	S1.2	1B.2
26 <i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
27 <i>Lilaeopsis masonii</i> Mason's lilaeopsis	PDAPI19030		Rare	G3	S3.1	1B.1
28 <i>Limosella subulata</i> Delta mudwort	PDSCR10050			G4?Q	S2.1	2.1
29 <i>Linderiella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
30 <i>Navarretia leucocephala ssp. bakeri</i> Baker's navarretia	PDPLM0C0E1			G4T2	S2.1	1B.1
31 <i>Neostapfia colusana</i> Colusa grass	PMPOA4C010	Threatened	Endangered	G3	S3.1	1B.1
32 <i>Northern Claypan Vernal Pool</i>	CTT44120CA			G1	S1.1	
33 <i>Plagiobothrys hystriculus</i> bearded popcorn-flower	PDBOR0V0H0			G1	S1.1	1B.1
34 <i>Symphotrichum lentum</i> Suisun Marsh aster	PDASTE8470			G2	S2.2	1B.2
35 <i>Tuctoria mucronata</i> Crampton's tuctoria or Solano grass	PMPOA6N020	Endangered	Endangered	G1	S1.1	1B.1
36 <i>Valley Needlegrass Grassland</i>	CTT42110CA			G1	S3.1	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Citrus Heights - LAR 2.8L

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Andrena subapasta</i> A vernal pool andrenid bee	IHYM35050			G1G3	S1S3	
2 <i>Ardea herodias</i> great blue heron	ABNGA04010			G5	S4	
3 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
4 <i>Elanus leucurus</i> white-tailed kite	ABNKC06010			G5	S3	
5 <i>Lindriella occidentalis</i> California lindriella	ICBRA06010			G3	S2S3	
6 <i>Northern Volcanic Mud Flow Vernal Pool</i>	CTT44132CA			G1	S1.1	
7 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	
8 <i>Sagittaria sanfordii</i> Sanford's arrowhead	PMALI040Q0			G3	S3.2	1B.2

California Department of Fish and Game
Natural Diversity Database
Selected Elements by Scientific Name - Portrait
Rio Linda - LAR 0.3L, LAR 2.8L, Sac 52.3L, Sac 53.5R, Sac 57.2R, Sac 77.2L

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Actinemys marmorata</i> western pond turtle	ARAAD02030			G3G4	S3	SC
2 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
3 <i>Ardea alba</i> great egret	ABNGA04040			G5	S4	
4 <i>Ardea herodias</i> great blue heron	ABNGA04010			G5	S4	
5 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
6 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
7 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
8 <i>Downingia pusilla</i> dwarf downingia	PDCAM060C0			G3	S3.1	2.2
9 <i>Elanus leucurus</i> white-tailed kite	ABNKC06010			G5	S3	
10 <i>Gratiola heterosepala</i> Boggs Lake hedge-hyssop	PDSCR0R060		Endangered	G3	S3.1	1B.2
11 <i>Legenere limosa</i> legenere	PDCAM0C010			G2	S2.2	1B.1
12 <i>Lepidurus packardi</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
13 <i>Linderiella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
14 Northern Claypan Vernal Pool	CTT44120CA			G1	S1.1	
15 Northern Hardpan Vernal Pool	CTT44110CA			G3	S3.1	
16 <i>Progne subis</i> purple martin	ABPAU01010			G5	S3	SC
17 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Accipiter cooperii</i> Cooper's hawk	ABNKC12040			G5	S3	SC
2 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
3 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
4 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
5 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
6 <i>Elanus leucurus</i> white-tailed kite	ABNKC06010			G5	S3	
7 <i>Elderberry Savanna</i>	CTT63440CA			G2	S2.1	
8 <i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
9 <i>Linderiella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
10 <i>Progne subis</i> purple martin	ABPAU01010			G5	S3	SC
11 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	
12 <i>Sagittaria sanfordii</i> Sanford's arrowhead	PMALI040Q0			G3	S3.2	1B.2
13 <i>Taxidea taxus</i> American badger	AMAJF04010			G5	S4	SC

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Carmichael - LAR 2.8L

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Accipiter cooperii</i> Cooper's hawk	ABNKC12040			G5	S3	SC
2 <i>Actinemys marmorata marmorata</i> northwestern pond turtle	ARAAD02031			G3G4T3	S3	SC
3 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
4 <i>Ardea alba</i> great egret	ABNGA04040			G5	S4	
5 <i>Ardea herodias</i> great blue heron	ABNGA04010			G5	S4	
6 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
7 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
8 <i>Branchinecta mesovallensis</i> midvalley fairy shrimp	ICBRA03150			G2	S2	
9 <i>Buteo regalis</i> ferruginous hawk	ABNKC19120			G4	S3S4	SC
10 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
11 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
12 <i>Dumontia oregonensis</i> A water flea	ICBRA23010			G1G3	S1	
13 <i>Elanus leucurus</i> white-tailed kite	ABNKC06010			G5	S3	
14 <i>Gratiola heterosepala</i> Boggs Lake hedge-hyssop	PDSCR0R060		Endangered	G3	S3.1	1B.2
15 <i>Hydrochara rickseckeri</i> Ricksecker's water scavenger beetle	IICOL5V010			G1G2	S1S2	
16 <i>Juncus leiospermus var. ahartii</i> Ahart's dwarf rush	PMJUN011L1			G2T1	S1.2	1B.2
17 <i>Legenere limosa</i> legenere	PDCAM0C010			G2	S2.2	1B.1
18 <i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
19 <i>Lindieriella occidentalis</i> California lindieriella	ICBRA06010			G3	S2S3	
20 <i>Northern Hardpan Vernal Pool</i>	CTT44110CA			G3	S3.1	
21 <i>Orcuttia viscida</i> Sacramento orcutt grass	PMPOA4G070	Endangered	Endangered	G1	S1.1	1B.1
22 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	
23 <i>Sagittaria sanfordii</i> Sanford's arrowhead	PMALI040Q0			G3	S3.2	1B.2

California Department of Fish and Game
Natural Diversity Database
Selected Elements by Scientific Name - Portrait
Carmichael - LAR 2.8L

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
24 <i>Spea hammondi</i> western spadefoot	AAABF02020			G3	S3	SC
25 <i>Taxidea taxus</i> American badger	AMAJF04010			G5	S4	SC

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Ardea alba</i> great egret	ABNGA04040			G5	S4	
3 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
4 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
5 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
6 <i>Egretta thula</i> snowy egret	ABNGA06030			G5	S4	
7 <i>Nycticorax nycticorax</i> black-crowned night heron	ABNGA11010			G5	S3	
8 <i>Pogonichthys macrolepidotus</i> Sacramento splittail	AFCJB34020			G2	S2	SC
9 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Astragalus tener var. tener</i> alkali milk-vetch	PDFAB0F8R1			G1T1	S1.1	1B.2
3 <i>Atriplex depressa</i> brittlescale	PDCHE042L0			G2Q	S2.2	1B.2
4 <i>Atriplex joaquiniana</i> San Joaquin spearscale	PDCHE041F3			G2	S2.1	1B.2
5 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
6 <i>Charadrius alexandrinus nivosus</i> western snowy plover	ABNNB03031	Threatened		G4T3	S2	SC
7 <i>Charadrius montanus</i> mountain plover	ABNNB03100			G2	S2?	SC
8 <i>Cordylanthus palmatus</i> palmate-bracted bird's-beak	PDSCR0J0J0	Endangered	Endangered	G1	S1.1	1B.1
9 <i>Lepidium latipes var. heckardii</i> Heckard's pepper-grass	PDBRA1M0K1			G4T1	S1.2	1B.2
10 <i>Plegadis chihi</i> white-faced ibis	ABNGE02020			G5	S1	SC
11 <i>Pogonichthys macrolepidotus</i> Sacramento splittail	AFCJB34020			G2	S2	SC
12 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Antrozous pallidus</i> pallid bat	AMACC10010			G5	S3	SC
3 <i>Astragalus tener</i> var. <i>tener</i> alkali milk-vetch	PDFAB0F8R1			G1T1	S1.1	1B.2
4 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
5 <i>Atriplex cordulata</i> heartscale	PDCHE040B0			G2?	S2.2?	1B.2
6 <i>Atriplex depressa</i> brittlescale	PDCHE042L0			G2Q	S2.2	1B.2
7 <i>Atriplex joaquiniana</i> San Joaquin spearscale	PDCHE041F3			G2	S2.1	1B.2
8 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
9 <i>Charadrius alexandrinus nivosus</i> western snowy plover	ABNNB03031	Threatened		G4T3	S2	SC
10 <i>Cicindela hirticollis abrupta</i> Sacramento Valley tiger beetle	IICOL02106			G5TH	SH	
11 <i>Elanus leucurus</i> white-tailed kite	ABNKC06010			G5	S3	
12 <i>Lasionycteris noctivagans</i> silver-haired bat	AMACC02010			G5	S3S4	SC
13 <i>Lasiurus cinereus</i> hoary bat	AMACC05030			G5	S4?	SC
14 <i>Lepidium latipes</i> var. <i>heckardii</i> Heckard's pepper-grass	PDBRA1M0K1			G4T1	S1.2	1B.2
15 <i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
16 <i>Linderiella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
17 <i>Myrmosula pacifica</i> Antioch multilid wasp	IIHYM15010			GH	SH	
18 <i>Taxidea taxus</i> American badger	AMAJF04010			G5	S4	SC
19 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Archoplites interruptus</i> Sacramento perch	AFCQB07010			G3	S1	SC
3 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
4 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
5 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
6 <i>Elderberry Savanna</i>	CTT63440CA			G2	S2.1	
7 <i>Great Valley Cottonwood Riparian Forest</i>	CTT61410CA			G2	S2.1	
8 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
9 <i>Lasiurus cinereus</i> hoary bat	AMACC05030			G5	S4?	SC
10 <i>Pogonichthys macrolepidotus</i> Sacramento splittail	AFCJB34020			G2	S2	SC
11 <i>Progne subis</i> purple martin	ABPAU01010			G5	S3	SC

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Woodland - Sac 83.9R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Antrozous pallidus</i> pallid bat	AMACC10010			G5	S3	SC
2 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
3 <i>Charadrius montanus</i> mountain plover	ABNNB03100			G2	S2?	SC
4 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
5 <i>Lasionycteris noctivagans</i> silver-haired bat	AMACC02010			G5	S3S4	SC
6 <i>Lasiurus cinereus</i> hoary bat	AMACC05030			G5	S4?	SC
7 <i>Taxidea taxus</i> American badger	AMAJF04010			G5	S4	SC
8 <i>Valley Oak Woodland</i>	CTT71130CA			G3	S2.1	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Sheridan - Sac 77.2L

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
2 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
3 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
4 <i>Downingia pusilla</i> dwarf downingia	PDCAM060C0			G3	S3.1	2.2
5 <i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
6 <i>Lindieriella occidentalis</i> California lindieriella	ICBRA06010			G3	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Pleasant Grove - Sac 77.2L

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
2 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
3 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
4 <i>Downingia pusilla</i> dwarf downingia	PDCAM060C0			G3	S3.1	2.2
5 <i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
6 <i>Linderiella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
7 <i>Spea hammondi</i> western spadefoot	AAABF02020			G3	S3	SC

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Nicolaus - Sac 77.2L, Sac 83.9R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Actinemys marmorata marmorata</i> northwestern pond turtle	ARAAD02031			G3G4T3	S3	SC
2 <i>Anthicus antiochensis</i> Antioch Dunes anthicid beetle	IICOL49020			G1	S1	
3 <i>Anthicus sacramento</i> Sacramento anthicid beetle	IICOL49010			G1	S1	
4 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
5 <i>Cicindela hirticollis abrupta</i> Sacramento Valley tiger beetle	IICOL02106			G5TH	SH	
6 <i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Candidate	Endangered	G5T3Q	S1	
7 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
8 <i>Great Valley Mixed Riparian Forest</i>	CTT61420CA			G2	S2.2	
9 <i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
10 <i>Linderiella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
11 <i>Pogonichthys macrolepidotus</i> Sacramento splittail	AFCJB34020			G2	S2	SC
12 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	
13 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Sutter Causeway - Sac 77.2L, Sac 83.9R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
3 <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA			G3	S2.1	
4 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
5 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Knights Landing - Sac 77.2L, Sac 83.9R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
3 <i>Cicindela hirticollis abrupta</i> Sacramento Valley tiger beetle	IICOL02106			G5TH	SH	
4 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
5 <i>Great Valley Mixed Riparian Forest</i>	CTT61420CA			G2	S2.2	
6 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
7 <i>Lasiurus blossevillii</i> western red bat	AMACC05060			G5	S3?	
8 <i>Lasiurus cinereus</i> hoary bat	AMACC05030			G5	S4?	SC
9 <i>Pogonichthys macrolepidotus</i> Sacramento splittail	AFCJB34020			G2	S2	SC
10 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	
11 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Verona - Sac 77.2L, Sac 83.9R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
3 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
4 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
5 <i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
6 <i>Nycticorax nycticorax</i> black-crowned night heron	ABNGA11010			G5	S3	
7 <i>Pogonichthys macrolepidotus</i> Sacramento splittail	AFCJB34020			G2	S2	SC
8 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	
9 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Kirkville - Sac 83.9R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Ardea alba</i> great egret	ABNGA04040			G5	S4	
3 <i>Ardea herodias</i> great blue heron	ABNGA04010			G5	S4	
4 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
5 <i>Charadrius montanus</i> mountain plover	ABNNB03100			G2	S2?	SC
6 <i>Great Valley Mixed Riparian Forest</i>	CTT61420CA			G2	S2.2	
7 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	
8 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	
9 <i>Trichocoronis wrightii</i> var. <i>wrightii</i> Wright's trichocoronis	PDAST9F031			G4T3	S1.1	2.1

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Eldorado Bend - Sac 83.9R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
3 <i>Charadrius montanus</i> mountain plover	ABNNB03100			G2	S2?	SC
4 <i>Great Valley Mixed Riparian Forest</i>	CTT61420CA			G2	S2.2	
5 <i>Lepidium latipes var. heckardii</i> Heckard's pepper-grass	PDBRA1M0K1			G4T1	S1.2	1B.2
6 <i>Pogonichthys macrolepidotus</i> Sacramento splittail	AFCJB34020			G2	S2	SC
7 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	
8 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Browns Valley - F 28.5R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Actinemys marmorata</i> western pond turtle	ARAAD02030			G3G4	S3	SC
2 <i>Actinemys marmorata marmorata</i> northwestern pond turtle	ARAAD02031			G3G4T3	S3	SC
3 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
4 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
5 <i>Branchinecta conservatio</i> Conservancy fairy shrimp	ICBRA03010	Endangered		G1	S1	
6 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
7 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
8 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
9 <i>Downingia pusilla</i> dwarf downingia	PDCAM060C0			G3	S3.1	2.2
10 <i>Legenere limosa</i> legenere	PDCAM0C010			G2	S2.2	1B.1
11 <i>Lepidurus packardi</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
12 <i>Linderiella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
13 <i>Northern Hardpan Vernal Pool</i>	CTT44110CA			G3	S3.1	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Wheatland - F 28.5R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Actinemys marmorata</i> western pond turtle	ARAAD02030			G3G4	S3	SC
2 <i>Actinemys marmorata marmorata</i> northwestern pond turtle	ARAAD02031			G3G4T3	S3	SC
3 <i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened		G3	S2S3	
4 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
5 <i>Circus cyaneus</i> northern harrier	ABNKC11010			G5	S3	SC
6 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
7 <i>Downingia pusilla</i> dwarf downingia	PDCAM060C0			G3	S3.1	2.2
8 <i>Linderiella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
9 <i>Northern Hardpan Vernal Pool</i>	CTT44110CA			G3	S3.1	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Sutter - F 28.5R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Great Valley Mixed Riparian Forest</i>	CTT61420CA			G2	S2.2	
2 <i>Monardella douglasii ssp. venosa</i> veiny monardella	PDLAM18082			G5T1	S1.1	1B.1
3 <i>Northern Hardpan Vernal Pool</i>	CTT44110CA			G3	S3.1	
4 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	
5 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Gilsizer Slough - F 28.5R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Actinemys marmorata marmorata</i> northwestern pond turtle	ARAAD02031			G3G4T3	S3	SC
2 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
3 <i>Branta hutchinsii leucopareia</i> cackling (=Aleutian Canada) goose	ABNJB05035	Delisted		G5T4	S2	
4 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
5 <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA			G3	S2.1	
6 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
7 <i>Linderiella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
8 <i>Monardella douglasii ssp. venosa</i> veiny monardella	PDLAM18082			G5T1	S1.1	1B.1
9 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Olivehurst - F 28.5R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
3 <i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Candidate	Endangered	G5T3Q	S1	
4 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
5 <i>Elanus leucurus</i> white-tailed kite	ABNKC06010			G5	S3	
6 <i>Great Valley Cottonwood Riparian Forest</i>	CTT61410CA			G2	S2.1	
7 <i>Great Valley Mixed Riparian Forest</i>	CTT61420CA			G2	S2.2	
8 <i>Lepidurus packardi</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
9 <i>Linderiella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
10 <i>Monardella douglasii ssp. venosa</i> veiny monardella	PDLAM18082			G5T1	S1.1	1B.1
11 <i>Pseudobahia bahiifolia</i> Hartweg's golden sunburst	PDAST7P010	Endangered	Endangered	G2	S2.1	1B.1
12 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Loma Rica - F 28.5R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
3 <i>Juncus leiospermus var. ahartii</i> Ahart's dwarf rush	PMJUN011L1			G2T1	S1.2	1B.2
4 <i>Paronychia ahartii</i> Ahart's paronychia	PDCAR0L0V0			G2	S2.1	1B.1

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Honcut - F 28.5R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
3 <i>Great Valley Cottonwood Riparian Forest</i>	CTT61410CA			G2	S2.1	
4 <i>Great Valley Mixed Riparian Forest</i>	CTT61420CA			G2	S2.2	
5 <i>Great Valley Valley Oak Riparian Forest</i>	CTT61430CA			G1	S1.1	
6 <i>Juncus leiospermus var. ahartii</i> Ahart's dwarf rush	PMJUN011L1			G2T1	S1.2	1B.2
7 <i>Northern Hardpan Vernal Pool</i>	CTT44110CA			G3	S3.1	
8 <i>Paronychia ahartii</i> Ahart's paronychia	PDCAR0L0V0			G2	S2.1	1B.1
9 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Butte City - Sac 177.8R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Astragalus tener var. ferrisiae</i> Ferris' milk-vetch	PDFAB0F8R3			G1T1	S1.1	1B.1
3 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
4 <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA			G3	S2.1	
5 <i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Candidate	Endangered	G5T3Q	S1	
6 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
7 <i>Great Valley Cottonwood Riparian Forest</i>	CTT61410CA			G2	S2.1	
8 <i>Great Valley Mixed Riparian Forest</i>	CTT61420CA			G2	S2.2	
9 <i>Great Valley Valley Oak Riparian Forest</i>	CTT61430CA			G1	S1.1	
10 <i>Great Valley Willow Scrub</i>	CTT63410CA			G3	S3.2	
11 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
12 <i>Lasiurus blossevillii</i> western red bat	AMACC05060			G5	S3?	
13 <i>Lasiurus cinereus</i> hoary bat	AMACC05030			G5	S4?	SC
14 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	
15 <i>Taxidea taxus</i> American badger	AMAJF04010			G5	S4	SC
16 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Princeton - Sac 177.8R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
3 <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA			G3	S2.1	
4 <i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Candidate	Endangered	G5T3Q	S1	
5 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
6 <i>Great Valley Cottonwood Riparian Forest</i>	CTT61410CA			G2	S2.1	
7 <i>Great Valley Mixed Riparian Forest</i>	CTT61420CA			G2	S2.2	
8 <i>Great Valley Willow Scrub</i>	CTT63410CA			G3	S3.2	
9 <i>Neostapfia colusana</i> Colusa grass	PMPOA4C010	Threatened	Endangered	G3	S3.1	1B.1
10 <i>Pandion haliaetus</i> osprey	ABNKC01010			G5	S3	SC
11 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	

California Department of Fish and Game
Natural Diversity Database
Selected Elements by Scientific Name - Portrait
Logandale - Sac 177.8R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Astragalus tener var. ferrisiae</i> Ferris' milk-vetch	PDFAB0F8R3			G1T1	S1.1	1B.1
3 <i>Atriplex cordulata</i> heartscale	PDCHE040B0			G2?	S2.2?	1B.2
4 <i>Atriplex depressa</i> brittlescale	PDCHE042L0			G2Q	S2.2	1B.2
5 <i>Atriplex joaquiniana</i> San Joaquin spearscale	PDCHE041F3			G2	S2.1	1B.2
6 <i>Atriplex persistens</i> vernal pool smallscale	PDCHE042P0			G2	S2.2	1B.2
7 <i>Branchinecta conservatio</i> Conservancy fairy shrimp	ICBRA03010	Endangered		G1	S1	
8 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
9 <i>Chamaesyce hooveri</i> Hoover's spurge	PDEUP0D150	Threatened		G2	S2.1	1B.2
10 <i>Cordylanthus palmatus</i> palmate-bracted bird's-beak	PDSCR0J0J0	Endangered	Endangered	G1	S1.1	1B.1
11 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
12 <i>Lepidium latipes var. heckardii</i> Heckard's pepper-grass	PDBRA1M0K1			G4T1	S1.2	1B.2
13 <i>Lepidurus packardi</i> vernal pool tadpole shrimp	ICBRA10010	Endangered		G3	S2S3	
14 <i>Neostapfia colusana</i> Colusa grass	PMPOA4C010	Threatened	Endangered	G3	S3.1	1B.1
15 <i>Orcuttia pilosa</i> hairy orcutt grass	PMPOA4G040	Endangered	Endangered	G2	S2.1	1B.1
16 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Ord Ferry - Sac 177.8R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Anthicus antiochensis</i> Antioch Dunes anthicid beetle	IICOL49020			G1	S1	
2 <i>Anthicus sacramento</i> Sacramento anthicid beetle	IICOL49010			G1	S1	
3 <i>Ardea alba</i> great egret	ABNGA04040			G5	S4	
4 <i>Ardea herodias</i> great blue heron	ABNGA04010			G5	S4	
5 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
6 <i>Carex vulpinoidea</i> brown fox sedge	PMCYP03EN0			G5	S2.2	2.2
7 <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA			G3	S2.1	
8 <i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Candidate	Endangered	G5T3Q	S1	
9 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
10 <i>Eumops perotis californicus</i> western mastiff bat	AMACD02011			G5T4	S3?	SC
11 <i>Great Valley Cottonwood Riparian Forest</i>	CTT61410CA			G2	S2.1	
12 <i>Great Valley Mixed Riparian Forest</i>	CTT61420CA			G2	S2.2	
13 <i>Great Valley Valley Oak Riparian Forest</i>	CTT61430CA			G1	S1.1	
14 <i>Great Valley Willow Scrub</i>	CTT63410CA			G3	S3.2	
15 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
16 <i>Lasionycteris noctivagans</i> silver-haired bat	AMACC02010			G5	S3S4	SC
17 <i>Lasiurus blossevillii</i> western red bat	AMACC05060			G5	S3?	
18 <i>Lasiurus cinereus</i> hoary bat	AMACC05030			G5	S4?	SC
19 <i>Myotis yumanensis</i> Yuma myotis	AMACC01020			G5	S4?	
20 <i>Pandion haliaetus</i> osprey	ABNKC01010			G5	S3	SC
21 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	
22 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	
23 <i>Woffia brasiliensis</i> Brazilian watermeal	PMLEM03020			G5	S1.3	2.3

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Llano Seco - Sac 177.8R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Ardea alba</i> great egret	ABNGA04040			G5	S4	
3 <i>Ardea herodias</i> great blue heron	ABNGA04010			G5	S4	
4 <i>Astragalus tener var. ferrisiae</i> Ferris' milk-vetch	PDFAB0F8R3			G1T1	S1.1	1B.1
5 <i>Athene cunicularia</i> burrowing owl	ABNSB10010			G4	S2	SC
6 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
7 <i>Carex vulpinoidea</i> brown fox sedge	PMCYP03EN0			G5	S2.2	2.2
8 <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA			G3	S2.1	
9 <i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Candidate	Endangered	G5T3Q	S1	
10 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
11 <i>Great Valley Cottonwood Riparian Forest</i>	CTT61410CA			G2	S2.1	
12 <i>Great Valley Mixed Riparian Forest</i>	CTT61420CA			G2	S2.2	
13 <i>Great Valley Valley Oak Riparian Forest</i>	CTT61430CA			G1	S1.1	
14 <i>Great Valley Willow Scrub</i>	CTT63410CA			G3	S3.2	
15 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
16 <i>Lasionycteris noctivagans</i> silver-haired bat	AMACC02010			G5	S3S4	SC
17 <i>Lasiurus cinereus</i> hoary bat	AMACC05030			G5	S4?	SC
18 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	
19 <i>Taxidea taxus</i> American badger	AMAJF04010			G5	S4	SC
20 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	
21 <i>Wolffia brasiliensis</i> Brazilian watermeal	PMLEM03020			G5	S1.3	2.3

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Hamilton City - Sac 177.8R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
2 <i>Castilleja rubicundula ssp. rubicundula</i> pink creamsacs	PDSCR0D482			G5T2	S2.2	1B.2
3 <i>Wolffia brasiliensis</i> Brazilian watermeal	PMLEM03020			G5	S1.3	2.3

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Orland - Sac 177.8R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Willows - Sac 177.8R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Ambystoma californiense</i> California tiger salamander	AAAAA01180	Threatened		G2G3	S2S3	SC
3 <i>Atriplex depressa</i> brittlescale	PDCHE042L0			G2Q	S2.2	1B.2
4 <i>Atriplex joaquiniana</i> San Joaquin spearscale	PDCHE041F3			G2	S2.1	1B.2
5 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
6 <i>California macrophylla</i> round-leaved filaree	PDGER01070			G3	S3.1	1B.1
7 <i>Delphinium recurvatum</i> recurved larkspur	PDRAN0B1J0			G2	S2.2	1B.2
8 <i>Egretta thula</i> snowy egret	ABNGA06030			G5	S4	
9 <i>Navarretia leucocephala ssp. bakeri</i> Baker's navarretia	PDPLM0C0E1			G4T2	S2.1	1B.1
10 <i>Nycticorax nycticorax</i> black-crowned night heron	ABNGA11010			G5	S3	
11 <i>Tropidocarpum capparideum</i> caper-fruited tropidocarpum	PDBRA2R010			G1	S1.1	1B.1

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Glenn - Sac 177.8R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
3 <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA			G3	S2.1	
4 <i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Candidate	Endangered	G5T3Q	S1	
5 <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
6 <i>Great Valley Cottonwood Riparian Forest</i>	CTT61410CA			G2	S2.1	
7 <i>Great Valley Mixed Riparian Forest</i>	CTT61420CA			G2	S2.2	
8 <i>Great Valley Willow Scrub</i>	CTT63410CA			G3	S3.2	
9 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Thornton - Sac 16.8L

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Actinemys marmorata</i> western pond turtle	ARAAD02030			G3G4	S3	SC
2 <i>Actinemys marmorata marmorata</i> northwestern pond turtle	ARAAD02031			G3G4T3	S3	SC
3 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
4 <i>Carex comosa</i> bristly sedge	PMCYP032Y0			G5	S2?	2.1
5 <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA			G3	S2.1	
6 <i>Great Valley Valley Oak Riparian Forest</i>	CTT61430CA			G1	S1.1	
7 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
8 <i>Lathyrus jepsonii var. jepsonii</i> Delta tule pea	PDFAB250D2			G5T2	S2.2	1B.2
9 <i>Lilaeopsis masonii</i> Mason's lilaeopsis	PDAP119030		Rare	G3	S3.1	1B.1
10 <i>Limosella subulata</i> Delta mudwort	PDSCR10050			G4?Q	S2.1	2.1
11 <i>Scutellaria lateriflora</i> side-flowering skullcap	PDLAM1U0Q0			G5	S1.2	2.2
12 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Terminous - Sac 16.8L

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Actinemys marmorata</i> western pond turtle	ARAAD02030			G3G4	S3	SC
2 <i>Actinemys marmorata marmorata</i> northwestern pond turtle	ARAAD02031			G3G4T3	S3	SC
3 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
4 <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA			G3	S2.1	
5 <i>Hibiscus lasiocarpus</i> woolly rose-mallow	PDMAL0H0Q0			G4	S2.2	2.2
6 <i>Laterallus jamaicensis coturniculus</i> California black rail	ABNME03041		Threatened	G4T1	S1	
7 <i>Lathyrus jepsonii</i> var. <i>jepsonii</i> Delta tule pea	PDFAB250D2			G5T2	S2.2	1B.2
8 <i>Lilaeopsis masonii</i> Mason's lilaeopsis	PDAP119030		Rare	G3	S3.1	1B.1
9 <i>Limosella subulata</i> Delta mudwort	PDSCR10050			G4?Q	S2.1	2.1
10 <i>Scutellaria lateriflora</i> side-flowering skullcap	PDLAM1U0Q0			G5	S1.2	2.2
11 <i>Symphotrichum lentum</i> Suisun Marsh aster	PDASTE8470			G2	S2.2	1B.2
12 <i>Thamnophis gigas</i> giant garter snake	ARADB36150	Threatened	Threatened	G2G3	S2S3	

California Department of Fish and Game
 Natural Diversity Database
 Selected Elements by Scientific Name - Portrait
 Yuba City - F 28.5R

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020			G2G3	S2	SC
2 <i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070		Threatened	G5	S2	
3 <i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Candidate	Endangered	G5T3Q	S1	
4 <i>Great Valley Cottonwood Riparian Forest</i>	CTT61410CA			G2	S2.1	
5 <i>Great Valley Mixed Riparian Forest</i>	CTT61420CA			G2	S2.2	
6 <i>Monardella douglasii ssp. venosa</i> veiny monardella	PDLAM18082			G5T1	S1.1	1B.1
7 <i>Pseudobahia bahiifolia</i> Hartweg's golden sunburst	PDAST7P010	Endangered	Endangered	G2	S2.1	1B.1
8 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	

CNPS *California Native Plant Society*

Inventory of Rare and Endangered Plants v7-08a 2-01-08

Status: search results - Thu, Feb. 14, 2008 10:24 c

{QUADS_123} =~ m/480B|497C|497D|481A|481D|498D|480A|480C

Tip: +DNT Jun Jul returns Del Norte taxa with those blooming both months listed first.
 [all tips and help.] [search history]

Your Quad Selection: Rio Vista (480B) 3812126, Liberty Island (497C) 3812136, Courtland (497D) 3812135, Birds Landing (481A) 3812127, Antioch North (481D) 3812117, Dozier (498D) 3812137, Isleton (480A) 3812125, Jersey Island (480C) 3812116, Bouldin Island (480D) 3812115

Hits 1 to 41 of 41





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	Arctostaphylos auriculata	Mt. Diablo manzanita	Ericaceae	List 1B.3
	<input type="checkbox"/>	1	Astragalus tener var. ferrisiae	Ferris' milk-vetch	Fabaceae	List 1B.1
	<input type="checkbox"/>	1	Astragalus tener var. tener	alkali milk-vetch	Fabaceae	List 1B.2
	<input type="checkbox"/>	1	Atriplex cordulata	heartscale	Chenopodiaceae	List 1B.2
	<input type="checkbox"/>	1	Atriplex depressa	brittlescale	Chenopodiaceae	List 1B.2
	<input type="checkbox"/>	1	Atriplex joaquiniana	San Joaquin spearscale	Chenopodiaceae	List 1B.2
	<input type="checkbox"/>	1	Atriplex persistens	vernal pool smallscale	Chenopodiaceae	List 1B.2
	<input type="checkbox"/>	1	Blepharizonia plumosa	big tarplant	Asteraceae	List 1B.1
	<input type="checkbox"/>	1	California macrophylla	round-leaved filaree	Geraniaceae	List 1B.1
	<input type="checkbox"/>	1	Carex comosa	bristly sedge	Cyperaceae	List 2.1
	<input type="checkbox"/>	1	Centromadia parryi ssp. parryi	pappose tarplant	Asteraceae	List 1B.2
	<input type="checkbox"/>	1	Cordylanthus mollis ssp. mollis	soft bird's-beak	Scrophulariaceae	List 1B.2
	<input type="checkbox"/>	1	Cryptantha hooveri	Hoover's cryptantha	Boraginaceae	List 1A
	<input type="checkbox"/>	1	Downingia pusilla	dwarf downingia	Campanulaceae	List 2.2
	<input type="checkbox"/>	1	Eriogonum truncatum	Mt. Diablo	Polygonaceae	List

				buckwheat		1B.1
		1	<i>Erysimum capitatum</i> ssp. angustatum	Contra Costa wallflower	Brassicaceae	List 1B.1
		1	<i>Eschscholzia</i> rhombipetala	diamond-petaled California poppy	Papaveraceae	List 1B.1
		1	<i>Fritillaria liliacea</i>	fragrant fritillary	Liliaceae	List 1B.2
		1	<i>Gratiola heterosepala</i> 	Boggs Lake hedge-hyssop	Scrophulariaceae	List 1B.2
		1	<i>Hesperolinon breweri</i> 	Brewer's western flax	Linaceae	List 1B.2
		1	<i>Hibiscus lasiocarpus</i> 	rose-mallow	Malvaceae	List 2.2
		1	<i>Isocoma arguta</i>	Carquinez goldenbush	Asteraceae	List 1B.1
		1	<i>Juglans hindsii</i>	Northern California black walnut	Juglandaceae	List 1B.1
		1	<i>Lasthenia conjugens</i> 	Contra Costa goldfields	Asteraceae	List 1B.1
		1	<i>Lathyrus jepsonii</i> var. jepsonii	Delta tule pea	Fabaceae	List 1B.2
		1	<i>Legenere limosa</i>	legenere	Campanulaceae	List 1B.1
		1	<i>Lepidium latipes</i> var. heckardii	Heckard's pepper-grass	Brassicaceae	List 1B.2
		1	<i>Lilaeopsis masonii</i>	Mason's lilaeopsis	Apiaceae	List 1B.1
		1	<i>Limosella subulata</i>	Delta mudwort	Scrophulariaceae	List 2.1
		1	<i>Madia radiata</i>	showy madia	Asteraceae	List 1B.1
		1	<i>Myosurus minimus</i> ssp. apus	little mousetail	Ranunculaceae	List 3.1
		1	<i>Navarretia</i> leucocephala ssp. bakeri	Baker's navarretia	Polemoniaceae	List 1B.1
		1	<i>Neostapfia colusana</i> 	Colusa grass	Poaceae	List 1B.1
		1	<i>Oenothera deltoides</i> ssp. howellii	Antioch Dunes evening-primrose	Onagraceae	List 1B.1
		1	<i>Plagiobothrys</i> hystriculus	bearded popcorn- flower	Boraginaceae	List 1B.1
		1	<i>Potamogeton</i> zosteriformis	eel-grass pondweed	Potamogetonaceae	List 2.2
		1	<i>Sagittaria sanfordii</i>	Sanford's arrowhead	Alismataceae	List 1B.2
		1	<i>Scutellaria galericulata</i> 	marsh skullcap	Lamiaceae	List 2.2
		1	<i>Scutellaria lateriflora</i>	blue skullcap	Lamiaceae	List 2.2

	<input type="checkbox"/>	1	Symphotrichum lentum 	Suisun Marsh aster	Asteraceae	List 1B.2
	<input type="checkbox"/>	1	Tuctoria mucronata 	Crampton's tuctoria or Solano grass	Poaceae	List 1B.1

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

Selections will appear in a new window.

No more hits.





Inventory of Rare and Endangered Plants

v7-08a 2-01-08

Status: search results - Thu, Feb. 14, 2008 10:26 c

{QUADS_123} =~ m/497C|480A|480B|498D|498A|481A|497D|497/

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: Liberty Island (497C) 3812136, Isleton (480A) 3812125, Rio Vista (480B) 3812126, Dozier (498D) 3812137, Dixon (498A) 3812147, Birds Landing (481A) 3812127, Courtland (497D) 3812135, Clarksburg (497A) 3812145, Saxon (497B) 3812146

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	Astragalus tener var. ferrisiae	Ferris' milk-vetch	Fabaceae	List 1B.1
	<input type="checkbox"/>	1	Astragalus tener var. tener 📷	alkali milk-vetch	Fabaceae	List 1B.2
	<input type="checkbox"/>	1	Atriplex cordulata 📷	heartscale	Chenopodiaceae	List 1B.2
	<input type="checkbox"/>	1	Atriplex depressa 📷	brittlescale	Chenopodiaceae	List 1B.2
	<input type="checkbox"/>	1	Atriplex joaquiniana 📷	San Joaquin spearscale	Chenopodiaceae	List 1B.2
	<input type="checkbox"/>	1	Atriplex persistens 📷	vernal pool smailscale	Chenopodiaceae	List 1B.2
	<input type="checkbox"/>	1	Carex comosa 📷	bristly sedge	Cyperaceae	List 2.1
	<input type="checkbox"/>	1	Centromadia parryi ssp. parryi 📷	pappose tarplant	Asteraceae	List 1B.2
	<input type="checkbox"/>	1	Downingia pusilla 📷	dwarf downingia	Campanulaceae	List 2.2
	<input type="checkbox"/>	1	Fritillaria liliacea 📷	fragrant fritillary	Liliaceae	List 1B.2
	<input type="checkbox"/>	1	Fritillaria pluriflora 📷	adobe-lily	Liliaceae	List 1B.2
	<input type="checkbox"/>	1	Gratiola heterosepala 📷	Boggs Lake hedge-hyssop	Scrophulariaceae	List 1B.2
	<input type="checkbox"/>	1	Hibiscus lasiocarpus 📷	rose-mallow	Malvaceae	List 2.2
	<input type="checkbox"/>	1	Isocoma arguta 📷	Carquinez goldenbush	Asteraceae	List 1B.1
	<input type="checkbox"/>	1	Juglans hindsii 📷	Northern California black walnut	Juglandaceae	List 1B.1

	<input type="checkbox"/>	1	Lathyrus jepsonii var. jepsonii	Delta tule pea	Fabaceae	List 1B.2
	<input type="checkbox"/>	1	Legenere limosa	legenere	Campanulaceae	List 1B.1
	<input type="checkbox"/>	1	Lepidium latipes var. heckardii	Heckard's pepper-grass	Brassicaceae	List 1B.2
	<input type="checkbox"/>	1	Lilaeopsis masonii	Mason's lilaeopsis	Apiaceae	List 1B.1
	<input type="checkbox"/>	1	Limosella subulata	Delta mudwort	Scrophulariaceae	List 2.1
	<input type="checkbox"/>	1	Myosurus minimus ssp. apus	little mousetail	Ranunculaceae	List 3.1
	<input type="checkbox"/>	1	Navarretia leucocephala ssp. bakeri	Baker's navarretia	Polemoniaceae	List 1B.1
	<input type="checkbox"/>	1	Neostapfia colusana	Colusa grass	Poaceae	List 1B.1
	<input type="checkbox"/>	1	Plagiobothrys hystriculus	bearded popcorn-flower	Boraginaceae	List 1B.1
	<input type="checkbox"/>	1	Sagittaria sanfordii	Sanford's arrowhead	Alismataceae	List 1B.2
	<input type="checkbox"/>	1	Symphotrichum lentum	Suisun Marsh aster	Asteraceae	List 1B.2
	<input type="checkbox"/>	1	Tuctoria mucronata	Crampton's tuctoria or Solano grass	Poaceae	List 1B.1

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

Selections will appear in a new window.

No more hits.





Inventory of Rare and Endangered Plants

v7-08a 2-01-08

Status: search results - Thu, Feb. 14, 2008 10:27 c

{QUADS_123} =~ m/544A|560C|560D|543B|543C|559C|544B|544C

Tip: Lathyrus Astragalus returns species from both genera.[all tips and help.]

Your Quad Selection: Yuba City (544A) 3912125, Gridley (560C) 3912136, Honcut (560D) 3912135, Browns Valley (543B) 3912124, Wheatland (543C) 3912114, Loma Rica (559C) 3912134, Sutter (544B) 3912126, Gilsizer Slough (544C) 3912116, Olivehurst (544D) 3912115

Hits 1 to 11 of 11

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	Astragalus tener var. ferrisiae	Ferris' milk-vetch	Fabaceae	List 1B.1
	<input type="checkbox"/>	1	Downingia pusilla	dwarf downingia	Campanulaceae	List 2.2
	<input type="checkbox"/>	1	Hibiscus lasiocarpus	rose-mallow	Malvaceae	List 2.2
	<input type="checkbox"/>	1	Juncus leiospermus var. ahartii	Ahart's dwarf rush	Juncaceae	List 1B.2
	<input type="checkbox"/>	1	Juncus leiospermus var. leiospermus	Red Bluff dwarf rush	Juncaceae	List 1B.1
	<input type="checkbox"/>	1	Legenere limosa	legenere	Campanulaceae	List 1B.1
	<input type="checkbox"/>	1	Monardella douglasii ssp. venosa	veiny monardella	Lamiaceae	List 1B.1
	<input type="checkbox"/>	1	Paronychia ahartii	Ahart's paronychia	Caryophyllaceae	List 1B.1
	<input type="checkbox"/>	1	Pseudobahia bahiifolia	Hartweg's golden sunburst	Asteraceae	List 1B.1
	<input type="checkbox"/>	1	Sagittaria sanfordii	Sanford's arrowhead	Alismataceae	List 1B.2
	<input type="checkbox"/>	1	Trichocoronis wrightii var. wrightii	Wright's trichocoronis	Asteraceae	List 2.1

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

Selections will appear in a new window.

No more hits.





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Status: search results - Thu, Feb. 14, 2008 10:28 c

{QUADS_123} =~ m/513D|497A|497B|512B|512C|496B|513A|513E

Tip: Want to search by habitat? Try the **Checkbox and Preset** search page.[all tips and help.]
[search history]

Your Quad Selection: Sacramento West (513D) 3812155, Clarksburg (497A) 3812145, Saxon (497B) 3812146, Rio Linda (512B) 3812164, Sacramento East (512C) 3812154, Florin (496B) 3812144, Taylor Monument (513A) 3812165, Grays Bend (513B) 3812166, Davis (513C) 3812156





Hits 1 to 16 of 16

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	Astragalus tener var. ferrisiae	Ferris' milk-vetch	Fabaceae	List 1B.1
	<input type="checkbox"/>	1	Astragalus tener var. tener	alkali milk-vetch	Fabaceae	List 1B.2
	<input type="checkbox"/>	1	Atriplex cordulata	heartscale	Chenopodiaceae	List 1B.2
	<input type="checkbox"/>	1	Atriplex depressa	brittlescale	Chenopodiaceae	List 1B.2
	<input type="checkbox"/>	1	Atriplex joaquiniana	San Joaquin spearscale	Chenopodiaceae	List 1B.2
	<input type="checkbox"/>	1	Cordylanthus palmatus	palmate-bracted bird's-beak	Scrophulariaceae	List 1B.1
	<input type="checkbox"/>	1	Downingia pusilla	dwarf downingia	Campanulaceae	List 2.2
	<input type="checkbox"/>	1	Gratiola heterosepala	Boggs Lake hedge-hyssop	Scrophulariaceae	List 1B.2
	<input type="checkbox"/>	1	Hibiscus lasiocarpus	rose-mallow	Malvaceae	List 2.2
	<input type="checkbox"/>	1	Juglans hindsii	Northern California black walnut	Juglandaceae	List 1B.1
	<input type="checkbox"/>	1	Legenere limosa	legenere	Campanulaceae	List 1B.1
	<input type="checkbox"/>	1	Lepidium latipes var. heckardii	Heckard's pepper-grass	Brassicaceae	List 1B.2
	<input type="checkbox"/>	1	Navarretia leucocephala ssp. bakeri	Baker's navarretia	Polemoniaceae	List 1B.1
	<input type="checkbox"/>	1	Neostapfia colusana	Colusa grass	Poaceae	List 1B.1
				Sanford's		List

	<input type="checkbox"/>	1	Sagittaria sanfordii 	arrowhead	Alismataceae	1B.2
	<input type="checkbox"/>	1	Tuctoria mucronata 	Crampton's tuctoria or Solano grass	Poaceae	List 1B.1

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

Selections will appear in a new window.

No more hits.




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Status: search results - Thu, Feb. 14, 2008 10:29 c

Tip: +DNT Jun Jul returns Del Norte taxa with those blooming both months listed first.
 [all tips and help.][search history]






Your Quad Selection: Isleton (480A) 3812125, Liberty Island (497C) 3812136, Courtland (497D) 3812135, Thornton (479B) 3812124, Terminous (479C) 3812114, Bruceville (496C) 3812134, Rio Vista (480B) 3812126, Jersey Island (480C) 3812116, Bouldin Island (480D) 3812115

Hits 1 to 17 of 17
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"/>	<input type="checkbox"/>	1	<u>Astragalus tener</u> var. <u>ferrisiae</u>	Ferris' milk-vetch	Fabaceae	List 1B.1
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Atriplex joaquiniana</u>	San Joaquin spearscale	Chenopodiaceae	List 1B.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Carex comosa</u>	bristly sedge	Cyperaceae	List 2.1
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Cordylanthus mollis</u> ssp. <u>mollis</u>	soft bird's-beak	Scrophulariaceae	List 1B.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Downingia pusilla</u>	dwarf downingia	Campanulaceae	List 2.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Hibiscus lasiocarpus</u>	rose-mallow	Malvaceae	List 2.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Juglans hindsii</u>	Northern California black walnut	Juglandaceae	List 1B.1
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Lathyrus jepsonii</u> var. <u>jepsonii</u>	Delta tule pea	Fabaceae	List 1B.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Lepidium latipes</u> var. <u>heckardii</u>	Heckard's pepper-grass	Brassicaceae	List 1B.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Lilaeopsis masonii</u>	Mason's lilaeopsis	Apiaceae	List 1B.1
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Limosella subulata</u>	Delta mudwort	Scrophulariaceae	List 2.1
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Oenothera deltoides</u> ssp. <u>howellii</u>	Antioch Dunes evening-primrose	Onagraceae	List 1B.1
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Potamogeton zosteriformis</u>	eel-grass pondweed	Potamogetonaceae	List 2.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Sagittaria sanfordii</u>	Sanford's arrowhead	Alismataceae	List 1B.2
			<u>Scutellaria galericulata</u>			List

	<input type="checkbox"/>	1		marsh skullcap	Lamiaceae	2.2
	<input type="checkbox"/>	1	Scutellaria lateriflora	blue skullcap	Lamiaceae	List 2.2
	<input type="checkbox"/>	1	Symphotrichum lentum 	Suisun Marsh aster	Asteraceae	List 1B.2

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

Selections will appear in a new window.

No more hits.





Inventory of Rare and Endangered Plants

v7-08a 2-01-08

Status: search results - Thu, Feb. 14, 2008 10:28 c

{QUADS_123} =~ m/512C|496A|496B|513D|513A|497A|512D|512/

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: Sacramento East (512C) 3812154, Elk Grove (496A) 3812143, Florin (496B) 3812144, Sacramento West (513D) 3812155, Taylor Monument (513A) 3812165, Clarksburg (497A) 3812145, Carmichael (512D) 3812153, Citrus Heights (512A) 3812163, Rio Linda (512B) 3812164

Hits 1 to 9 of 9

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>Downingia pusilla</u>	dwarf downingia	Campanulaceae	List 2.2
	<input type="checkbox"/>	1	<u>Gratiola heterosepala</u>	Boggs Lake hedge-hyssop	Scrophulariaceae	List 1B.2
	<input type="checkbox"/>	1	<u>Hibiscus lasiocarpus</u>	rose-mallow	Malvaceae	List 2.2
	<input type="checkbox"/>	1	<u>Juglans hindsii</u>	Northern California black walnut	Juglandaceae	List 1B.1
	<input type="checkbox"/>	1	<u>Juncus leiospermus</u> var. <u>ahartii</u>	Ahart's dwarf rush	Juncaceae	List 1B.2
	<input type="checkbox"/>	1	<u>Legenere limosa</u>	legenere	Campanulaceae	List 1B.1
	<input type="checkbox"/>	1	<u>Orcuttia tenuis</u>	slender Orcutt grass	Poaceae	List 1B.1
	<input type="checkbox"/>	1	<u>Orcuttia viscida</u>	Sacramento Orcutt grass	Poaceae	List 1B.1
	<input type="checkbox"/>	1	<u>Sagittaria sanfordii</u>	Sanford's arrowhead	Alismataceae	List 1B.2

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

Selections will appear in a new window.

No more hits.



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Status: search results - Thu, Feb. 14, 2008 10:29 c

{QUADS_123} =~ m/497A|513C|513D|496B|496C|512C|497B|497C

Tip: Terms prefixed by "+" are required, and by "-" excluded.[all tips and help.][search history]

Your Quad Selection: Clarksburg (497A) 3812145, Davis (513C) 3812156, Sacramento West (513D) 3812155, Florin (496B) 3812144, Bruceville (496C) 3812134, Sacramento East (512C) 3812154, Saxon (497B) 3812146, Liberty Island (497C) 3812136, Courtland (497D) 3812135








Hits 1 to 19 of 19

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"/>	<input type="checkbox"/>	1	<i>Astragalus tener</i> var. <i>ferrisiae</i>	Ferris' milk-vetch	Fabaceae	List 1B.1
<input type="checkbox"/>	<input type="checkbox"/>	1	<i>Astragalus tener</i> var. <i>tener</i> 🌿	alkali milk-vetch	Fabaceae	List 1B.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<i>Atriplex cordulata</i> 🌿	heartscale	Chenopodiaceae	List 1B.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<i>Atriplex depressa</i> 🌿	brittlescale	Chenopodiaceae	List 1B.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<i>Atriplex joaquiniana</i> 🌿	San Joaquin spearscale	Chenopodiaceae	List 1B.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<i>Carex comosa</i> 🌿	bristly sedge	Cyperaceae	List 2.1
<input type="checkbox"/>	<input type="checkbox"/>	1	<i>Downingia pusilla</i> 🌿	dwarf downingia	Campanulaceae	List 2.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<i>Hibiscus lasiocarpus</i> 🌿	rose-mallow	Malvaceae	List 2.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<i>Juglans hindsii</i> 🌿	Northern California black walnut	Juglandaceae	List 1B.1
<input type="checkbox"/>	<input type="checkbox"/>	1	<i>Lathyrus jepsonii</i> var. <i>jepsonii</i> 🌿	Delta tule pea	Fabaceae	List 1B.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<i>Legenere limosa</i> 🌿	legenere	Campanulaceae	List 1B.1
<input type="checkbox"/>	<input type="checkbox"/>	1	<i>Lepidium latipes</i> var. <i>heckardii</i> 🌿	Heckard's pepper-grass	Brassicaceae	List 1B.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<i>Lilaeopsis masonii</i> 🌿	Mason's lilaeopsis	Apiaceae	List 1B.1
<input type="checkbox"/>	<input type="checkbox"/>	1	<i>Limosella subulata</i>	Delta mudwort	Scrophulariaceae	List 2.1
<input type="checkbox"/>	<input type="checkbox"/>	1	<i>Navarretia leucocephala</i> ssp. <i>bakeri</i> 🌿	Baker's navarretia	Polemoniaceae	List 1B.1

	<input type="checkbox"/>	1	<u>Neostapfia colusana</u> 	Colusa grass	Poaceae	List 1B.1
	<input type="checkbox"/>	1	<u>Sagittaria sanfordii</u> 	Sanford's arrowhead	Alismataceae	List 1B.2
	<input type="checkbox"/>	1	<u>Scutellaria lateriflora</u>	blue skullcap	Lamiaceae	List 2.2
	<input type="checkbox"/>	1	<u>Tuctoria mucronata</u> 	Crampton's tuctoria or Solano grass	Poaceae	List 1B.1

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

Selections will appear in a new window.

No more hits.





Inventory of Rare and Endangered Plants

v7-08a 2-01-08

Status: search results - Thu, Feb. 14, 2008 10:30 c

{QUADS_123} =~ m/529D|513A|513B|528B|528C|512B|529A|529B Search

Tip: CNPS LIST: "List 3" (note the field name) returns only taxa on List 3. "List 3" by itself, matches the phrase wherever found. Browse the list of **field names**. [all tips and help.]
[search history]

Your Quad Selection: Verona (529D) 3812175, Taylor Monument (513A) 3812165, Grays Bend (513B) 3812166, Sheridan (528B) 3812184, Pleasant Grove (528C) 3812174, Rio Linda (512B) 3812164, Nicolaus (529A) 3812185, Sutter Causeway (529B) 3812186, Knights Landing (529C) 3812176

Hits 1 to 10 of 10

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

Selections will appear in a new window.

open	save	hits	scientific	common	family	CNPS
	<input type="checkbox"/>	1	Astragalus tener var. tener	alkali milk-vetch	Fabaceae	List 1B.2
	<input type="checkbox"/>	1	Atriplex depressa	brittlescale	Chenopodiaceae	List 1B.2
	<input type="checkbox"/>	1	Atriplex joaquiniana	San Joaquin spearscale	Chenopodiaceae	List 1B.2
	<input type="checkbox"/>	1	Carex lenticularis var. limnophila	lakeshore sedge	Cyperaceae	List 2.2
	<input type="checkbox"/>	1	Cordylanthus palmatus	palmate-bracted bird's-beak	Scrophulariaceae	List 1B.1
	<input type="checkbox"/>	1	Downingia pusilla	dwarf downingia	Campanulaceae	List 2.2
	<input type="checkbox"/>	1	Gratiola heterosepala	Boggs Lake hedge-hyssop	Scrophulariaceae	List 1B.2
	<input type="checkbox"/>	1	Hibiscus lasiocarpus	rose-mallow	Malvaceae	List 2.2
	<input type="checkbox"/>	1	Legenere limosa	legenere	Campanulaceae	List 1B.1
	<input type="checkbox"/>	1	Lepidium latipes var. heckardii	Heckard's pepper-grass	Brassicaceae	List 1B.2

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

ADD checked items to Plant Press

Selections will appear in a new window.

No more hits.





Inventory of Rare and Endangered Plants

v7-08a 2-01-08

Status: search results - Thu, Feb. 14, 2008 10:30 c

{QUADS_123} =~ m/529C|513A|513B|530D|530A|514A|529D|529/

Tip: Terms prefixed by "+" are required, and by "-" excluded.[all tips and help.][search history]

Your Quad Selection: Knights Landing (529C) 3812176, Taylor Monument (513A) 3812165, Grays Bend (513B) 3812166, Eldorado Bend (530D) 3812177, Kirkville (530A) 3812187, Woodland (514A) 3812167, Verona (529D) 3812175, Nicolaus (529A) 3812185, Sutter Causeway (529B) 3812186

Hits 1 to 9 of 9

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	Astragalus tener var. tener	alkali milk-vetch	Fabaceae	List 1B.2
	<input type="checkbox"/>	1	Atriplex depressa	brittlescale	Chenopodiaceae	List 1B.2
	<input type="checkbox"/>	1	Atriplex joaquiniana	San Joaquin spearscale	Chenopodiaceae	List 1B.2
	<input type="checkbox"/>	1	Carex lenticularis var. limnophila	lakeshore sedge	Cyperaceae	List 2.2
	<input type="checkbox"/>	1	Cordylanthus palmatus	palmate-bracted bird's-beak	Scrophulariaceae	List 1B.1
	<input type="checkbox"/>	1	Hibiscus lasiocarpus	rose-mallow	Malvaceae	List 2.2
	<input type="checkbox"/>	1	Lepidium latipes var. heckardii	Heckard's pepper-grass	Brassicaceae	List 1B.2
	<input type="checkbox"/>	1	Lessingia hololeuca	woolly-headed lessingia	Asteraceae	List 3
	<input type="checkbox"/>	1	Trichocoronis wrightii var. wrightii	Wright's trichocoronis	Asteraceae	List 2.1

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

Selections will appear in a new window.

No more hits.



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Inventory of Rare and Endangered Plants

v7-08a 2-01-08

Status: search results - Thu, Feb. 14, 2008 10:31 c

{QUADS_123} =~ m/578D|562A|562B|577B|577C|561B|578A|578E

Tip: CNPS LIST: "List 3" (note the field name) returns only taxa on List 3. "List 3" by itself, matches the phrase wherever found. Browse the list of **field names**. [all tips and help.] [search history]

Your Quad Selection: Glenn (578D) 3912251, Princeton (562A) 3912241, Logandale (562B) 3912242, Ord Ferry (577B) 3912168, Llano Seco (577C) 3912158, Butte City (561B) 3912148, Hamilton City (578A) 3912261, Orland (578B) 3912262, Willows (578C) 3912252









Hits 1 to 19 of 19

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"/>	<input type="checkbox"/>	1	<u>Astragalus tener</u> var. <u>ferrisiae</u>	Ferris' milk-vetch	Fabaceae	List 1B.1
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Atriplex cordulata</u>	heartscale	Chenopodiaceae	List 1B.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Atriplex depressa</u>	brittlescale	Chenopodiaceae	List 1B.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Atriplex joaquiniana</u>	San Joaquin spearscale	Chenopodiaceae	List 1B.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Atriplex persistens</u>	vernal pool smallscale	Chenopodiaceae	List 1B.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>California macrophylla</u>	round-leaved filaree	Geraniaceae	List 1B.1
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Carex vulpinoidea</u>	fox sedge	Cyperaceae	List 2.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Castilleja rubicundula</u> ssp. <u>rubicundula</u>	pink creamsacs	Scrophulariaceae	List 1B.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Chamaesyce hooveri</u>	Hoover's spurge	Euphorbiaceae	List 1B.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Cordylanthus palmatus</u>	palmate-bracted bird's-beak	Scrophulariaceae	List 1B.1
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Delphinium recurvatum</u>	recurved larkspur	Ranunculaceae	List 1B.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Hibiscus lasiocarpus</u>	rose-mallow	Malvaceae	List 2.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Lepidium latipes</u> var. <u>heckardii</u>	Heckard's pepper-grass	Brassicaceae	List 1B.2
<input type="checkbox"/>	<input type="checkbox"/>	1	<u>Navarretia leucocephala</u> ssp. <u>bakeri</u>	Baker's navarretia	Polemoniaceae	List 1B.1

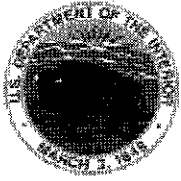
	<input type="checkbox"/>	1	Neostapfia colusana 	Colusa grass	Poaceae	List 1B.1
	<input type="checkbox"/>	1	Orcuttia pilosa 	hairy Orcutt grass	Poaceae	List 1B.1
	<input type="checkbox"/>	1	Tropidocarpum capparideum 	caper-fruited tropidocarpum	Brassicaceae	List 1B.1
	<input type="checkbox"/>	1	Tuctoria greenei	Greene's tuctoria	Poaceae	List 1B.1
	<input type="checkbox"/>	1	Wolffia brasiliensis	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.





United States Department of the Interior

FISH AND WILDLIFE SERVICE

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



February 29, 2008

Document Number: 080229050926

Jessica Carson
Parus Consulting Inc.
8303 Sierra College Blvd.
Suite 126
Roseville, Ca 95661

Subject: Species List for Species List for Army Corps of Engineers Proposed Levee Repairs

Dear: Ms. Carson

We are sending this official species list in response to your February 29, 2008 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 29, 2008.

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



**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: 080229050926

Database Last Updated: January 31, 2008

No quad species lists requested.

County Lists

Glenn County

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

Acipenser medirostris

green sturgeon (T) (NMFS)

Oncorhynchus kisutch

coho salmon, So OR/No CA (T) (NMFS)

Critical habitat, coho salmon, So OR/No CA (X) (NMFS)

Oncorhynchus mykiss

Central Valley steelhead (T) (NMFS)

Critical habitat, Central Valley steelhead (X) (NMFS)

Critical habitat, Northern California steelhead (X) (NMFS)

Northern California steelhead (T) (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)

Birds

Strix occidentalis caurina
Critical habitat, northern spotted owl (X)
northern spotted owl (T)

Plants

Chamaesyce hooveri
Hoover's spurge (T)

Orcuttia pilosa
hairy Orcutt grass (E)

Tuctoria greenei
Greene's tuctoria (=Orcutt grass) (E)

Candidate Species

Birds

Coccyzus americanus occidentalis
Western yellow-billed cuckoo (C)

Sacramento County

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
Critical habitat, valley elderberry longhorn beetle (X)
valley elderberry longhorn beetle (T)

Elaphrus viridis
delta green ground 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
Critical habitat, delta smelt (X)
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)

Critical habitat, CA tiger salamander, central population (X)

Rana aurora draytonii

California red-legged frog (T)

Reptiles*Thamnophis gigas*

giant garter snake (T)

Plants*Castilleja campestris ssp. succulenta*

Critical habitat, succulent (=fleshy) owl's-clover (X)

Oenothera deltooides ssp. howellii

Antioch Dunes evening-primrose (E)

Orcuttia tenuis

Critical habitat, slender Orcutt grass (X)

slender Orcutt grass (T)

Orcuttia viscida

Critical habitat, Sacramento Orcutt grass (X)

Sacramento Orcutt grass (E)

Candidate Species**Birds***Coccyzus americanus occidentalis*

Western yellow-billed cuckoo (C)

Solano County**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)

Elaphrus viridis
Critical habitat, delta green ground beetle (X)
delta green ground beetle (T)

Lepidurus packardi
Critical habitat, vernal pool tadpole shrimp (X)
vernal pool tadpole shrimp (E)

Speyeria callippe callippe
callippe silverspot butterfly (E)

Fish

Acipenser medirostris
green sturgeon (T) (NMFS)

Hypomesus transpacificus
Critical habitat, delta smelt (X)
delta smelt (T)

Oncorhynchus kisutch
coho salmon - central CA coast (E) (NMFS)

Oncorhynchus mykiss
Central California Coastal steelhead (T) (NMFS)
Central Valley steelhead (T) (NMFS)
Critical habitat, Central California coastal steelhead (X) (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)
Critical habitat, CA tiger salamander, central population (X)

Rana aurora draytonii
California red-legged frog (T)
Critical habitat, California red-legged frog (X)

Reptiles

Masticophis lateralis euryxanthus
Alameda whipsnake [=striped racer] (T)

Thamnophis gigas
giant garter snake (T)

Birds

Charadrius alexandrinus nivosus
western snowy plover (T)

Pelecanus occidentalis californicus
California brown pelican (E)

Rallus longirostris obsoletus
California clapper rail (E)

Sternula antillarum (=Sterna, =albifrons) browni
California least tern (E)

Mammals

Reithrodontomys raviventris
salt marsh harvest mouse (E)

Plants

Cirsium hydrophilum var. *hydrophilum*
Suisun thistle (E)

Cordylanthus mollis ssp. *mollis*
soft bird's-beak (E)

Lasthenia conjugens
Contra Costa goldfields (E)
Critical habitat, Contra Costa goldfields (X)

Neostapfia colusana
Colusa grass (T)

Tuctoria mucronata
Solano grass (=Crampton's tuctoria) (E)

Proposed Species**Plants**

Cirsium hydrophilum var. *hydrophilum*
Critical habitat, Suisun thistle (PX)

Cordylanthus mollis ssp. *mollis*
Critical habitat, soft bird's-beak (PX)

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 packardi
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)

Yolo 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 packardi
Critical habitat, vernal pool tadpole shrimp (X)
vernal pool tadpole shrimp (E)

Fish*Acipenser medirostris*

green sturgeon (T) (NMFS)

*Hypomesus transpacificus*Critical habitat, delta smelt (X)
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)

Critical habitat, CA tiger salamander, central population (X)

Rana aurora draytonii

California red-legged frog (T)

Reptiles*Thamnophis gigas*

giant garter snake (T)

Birds*Strix occidentalis caurina*

northern spotted owl (T)

Plants*Cordylanthus palmatus*

palmate-bracted bird's-beak (E)

Neostapfia colusana

Colusa grass (T)

Critical habitat, Colusa grass (X)

Tuctoria mucronata

Critical habitat, Solano grass (=Crampton's tuctoria) (X)

Solano grass (=Crampton's tuctoria) (E)

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 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.

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 [critical habitat page](#) for maps.

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 May 29, 2008.



United States Department of the Interior

FISH AND WILDLIFE SERVICE

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



February 29, 2008

Document Number: 080229053438

Jessica Carson
Parus Consulting Inc.
8303 Sierra College Blvd.
Suite 126
Roseville, Ca 95661

Subject: Species List for Species List for Army Corps of Engineers Proposed Levee Repairs

Dear: Ms. Carson

We are sending this official species list in response to your February 29, 2008 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 29, 2008.

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



**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: 080229053438

Database Last Updated: January 31, 2008

Quad Lists

THORNTON (479B)

Listed Species

Invertebrates

- Branchinecta lynchi*
vernal pool fairy shrimp (T)
- Desmocerus californicus dimorphus*
valley elderberry longhorn beetle (T)
- Lepidurus packardi*
vernal pool tadpole shrimp (E)

Fish

- Acipenser medirostris*
green sturgeon (T) (NMFS)
- Hypomesus transpacificus*
Critical habitat, delta smelt (X)
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)
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)

TERMINOUS (479C)

Listed Species

Invertebrates

- Branchinecta lynchi*
vernal pool fairy shrimp (T)
- Desmocerus californicus dimorphus*
valley elderberry longhorn beetle (T)
- Lepidurus packardi*
vernal pool tadpole shrimp (E)

Fish

- Acipenser medirostris*

green sturgeon (T) (NMFS)

Hypomesus transpacificus

Critical habitat, delta smelt (X)

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)

ISLETON (480A)

Listed Species

Invertebrates

Branchinecta conservatio

Conservancy fairy shrimp (E)

Branchinecta lynchi

vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus

valley elderberry longhorn beetle (T)

Elaphrus viridis

delta green ground beetle (T)

Lepidurus packardii

vernal pool tadpole shrimp (E)

Fish

Acipenser medirostris

green sturgeon (T) (NMFS)

Hypomesus transpacificus

Critical habitat, delta smelt (X)

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 aurora draytonii

California red-legged frog (T)

Reptiles

Thamnophis gigas

giant garter snake (T)

Birds

Rallus longirostris obsoletus
California clapper rail (E)

RIO VISTA (480B)**Listed Species****Invertebrates**

Branchinecta conservatio
Conservancy fairy shrimp (E)
Branchinecta lynchi
vernal pool fairy shrimp (T)
Desmocerus californicus dimorphus
valley elderberry longhorn beetle (T)
Elaphrus viridis
delta green ground beetle (T)
Lepidurus packardi
vernal pool tadpole shrimp (E)

Fish

Acipenser medirostris
green sturgeon (T) (NMFS)
Hypomesus transpacificus
Critical habitat, delta smelt (X)
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)
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)

Birds

Rallus longirostris obsoletus
California clapper rail (E)

JERSEY ISLAND (480C)**Listed Species****Invertebrates**

Branchinecta lynchi
vernal pool fairy shrimp (T)
Desmocerus californicus dimorphus
valley elderberry longhorn beetle (T)
Elaphrus viridis
delta green ground beetle (T)
Lepidurus packardi
vernal pool tadpole shrimp (E)

Fish

- Acipenser medirostris*
green sturgeon (T) (NMFS)
- Hypomesus transpacificus*
Critical habitat, delta smelt (X)
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 aurora draytonii*
California red-legged frog (T)

Reptiles

- Thamnophis gigas*
giant garter snake (T)

Birds

- Rallus longirostris obsoletus*
California clapper rail (E)

Plants

- Oenothera deltooides ssp. howellii*
Antioch Dunes evening-primrose (E)

BOULDIN ISLAND (480D)

Listed Species

Invertebrates

- 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)
- Hypomesus transpacificus*
Critical habitat, delta smelt (X)
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, 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)

Birds

Rallus longirostris obsoletus
California clapper rail (E)

BIRDS LANDING (481A)

Listed Species

Invertebrates

Branchinecta conservatio
Conservancy fairy shrimp (E)

Branchinecta lynchi
vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus
valley elderberry longhorn beetle (T)

Elaphrus viridis
Critical habitat, delta green ground beetle (X)
delta green ground beetle (T)

Lepidurus packardii
vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus
Critical habitat, delta smelt (X)
delta smelt (T)

Oncorhynchus mykiss
Central Valley steelhead (T) (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)
Critical habitat, CA tiger salamander, central population (X)

Rana aurora draytonii
California red-legged frog (T)

Reptiles

Thamnophis gigas
giant garter snake (T)

Birds

Rallus longirostris obsoletus
California clapper rail (E)

Mammals

Reithrodontomys raviventris
salt marsh harvest mouse (E)

ANTIOCH NORTH (481D)

Listed Species

Invertebrates

Apodemia mormo langei
Lange's metalmark butterfly (E)

- Branchinecta lynchi*
vernal pool fairy shrimp (T)
- Desmocerus californicus dimorphus*
valley elderberry longhorn beetle (T)
- Elaphrus viridis*
delta green ground beetle (T)
- Lepidurus packardi*
vernal pool tadpole shrimp (E)

Fish

- Acipenser medirostris*
green sturgeon (T) (NMFS)
- Hypomesus transpacificus*
Critical habitat, delta smelt (X)
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 aurora draytonii*
California red-legged frog (T)

Reptiles

- Thamnophis gigas*
giant garter snake (T)

Birds

- Rallus longirostris obsoletus*
California clapper rail (E)

Mammals

- Reithrodontomys raviventris*
salt marsh harvest mouse (E)
- Vulpes macrotis mutica*
San Joaquin kit fox (E)

Plants

- Cordylanthus mollis ssp. mollis*
soft bird's-beak (E)
- Erysimum capitatum ssp. angustatum*
Contra Costa wallflower (E)
Critical Habitat, Contra Costa wallflower (X)
- Lasthenia conjugens*
Contra Costa goldfields (E)
- Neostapfia colusana*
Colusa grass (T)
- Oenothera deltooides ssp. howellii*
Antioch Dunes evening-primrose (E)
Critical habitat, Antioch Dunes evening-primrose (X)

ELK GROVE (496A)
Listed Species

Invertebrates

- Branchinecta lynchi*
vernal pool fairy shrimp (T)
- Desmocerus californicus dimorphus*
valley elderberry longhorn beetle (T)
- Lepidurus packardii*
vernal pool tadpole shrimp (E)

Fish

- Hypomesus transpacificus*
Critical habitat, delta smelt (X)
delta smelt (T)
- Oncorhynchus mykiss*
Central Valley steelhead (T) (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

- Orcuttia tenuis*
slender Orcutt grass (T)
- Orcuttia viscida*
Sacramento Orcutt grass (E)

FLORIN (496B)**Listed Species****Invertebrates**

- 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)
- Hypomesus transpacificus*
Critical habitat, delta smelt (X)
delta smelt (T)
- Oncorhynchus mykiss*
Central Valley steelhead (T) (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)

BRUCEVILLE (496C)

Listed Species

Invertebrates

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)
Hypomesus transpacificus
Critical habitat, delta smelt (X)
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)

CLARKSBURG (497A)

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)
Hypomesus transpacificus
Critical habitat, delta smelt (X)
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 aurora draytonii

California red-legged frog (T)

Reptiles

Thamnophis gigas

giant garter snake (T)

SAXON (497B)

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

Critical habitat, vernal pool tadpole shrimp (X)

vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus

Critical habitat, delta smelt (X)

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)

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

Neostapfia colusana

Colusa grass (T)

Critical habitat, Colusa grass (X)

Tuctoria mucronata

Critical habitat, Solano grass (=Crampton's tuctoria) (X)

Solano grass (=Crampton's tuctoria) (E)

LIBERTY ISLAND (497C)

Listed Species

Invertebrates

- Branchinecta conservatio*
Conservancy fairy shrimp (E)
- Branchinecta lynchi*
vernal pool fairy shrimp (T)
- Desmocerus californicus dimorphus*
valley elderberry longhorn beetle (T)
- Elaphrus viridis*
delta green ground beetle (T)
- Lepidurus packardi*
vernal pool tadpole shrimp (E)

Fish

- Hypomesus transpacificus*
Critical habitat, delta smelt (X)
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)
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)

COURTLAND (497D)

Listed Species

Invertebrates

- Branchinecta conservatio*
Conservancy fairy shrimp (E)
- Branchinecta lynchi*
vernal pool fairy shrimp (T)
- Desmocerus californicus dimorphus*
valley elderberry longhorn beetle (T)
- Elaphrus viridis*
delta green ground beetle (T)
- Lepidurus packardi*
vernal pool tadpole shrimp (E)

Fish

- Acipenser medirostris*
green sturgeon (T) (NMFS)
- Hypomesus transpacificus*

Critical habitat, delta smelt (X)
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 aurora draytonii

California red-legged frog (T)

Reptiles

Thamnophis gigas

giant garter snake (T)

DIXON (498A)

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

Hypomesus transpacificus

Critical habitat, delta smelt (X)
delta smelt (T)

Oncorhynchus mykiss

Central Valley steelhead (T) (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)

DOZIER (498D)

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)

Elaphrus viridis
 Critical habitat, delta green ground beetle (X)
 delta green ground beetle (T)

Lepidurus packardi
 Critical habitat, vernal pool tadpole shrimp (X)
 vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus
 Critical habitat, delta smelt (X)
 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)
 winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense
 California tiger salamander, central population (T)
 Critical habitat, CA tiger salamander, central population (X)

Rana aurora draytonii
 California red-legged frog (T)

Reptiles

Thamnophis gigas
 giant garter snake (T)

Plants

Neostapfia colusana
 Colusa grass (T)

Tuctoria mucronata
 Solano grass (=Crampton's tuctoria) (E)

CITRUS HEIGHTS (512A)

Listed Species

Invertebrates

Branchinecta lynchi
 vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus
 valley elderberry longhorn beetle (T)

Lepidurus packardi
 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)

SACRAMENTO EAST (512C)

Listed Species

Invertebrates

Branchinecta lynchi

vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus

Critical habitat, valley elderberry longhorn beetle (X)

valley elderberry longhorn beetle (T)

Lepidurus packardii

vernal pool tadpole shrimp (E)

Fish

Acipenser medirostris

green sturgeon (T) (NMFS)

Hypomesus transpacificus

Critical habitat, delta smelt (X)

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)

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)

CARMICHAEL (512D)

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

Critical habitat, valley elderberry longhorn beetle (X)

valley elderberry longhorn beetle (T)

Lepidurus packardii
 Critical habitat, vernal pool tadpole shrimp (X)
 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

Orcuttia tenuis
 Critical habitat, slender Orcutt grass (X)

Orcuttia viscida
 Critical habitat, Sacramento Orcutt grass (X)

TAYLOR MONUMENT (513A)

Listed Species

Invertebrates

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)

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 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)

GRAYS BEND (513B)

Listed Species

Invertebrates

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)
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 aurora draytonii
California red-legged frog (T)

Reptiles

Thamnophis gigas
giant garter snake (T)

Birds

Charadrius alexandrinus nivosus
western snowy plover (T)

Plants

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

Candidate Species

Birds

Coccyzus americanus occidentalis
Western yellow-billed cuckoo (C)

DAVIS (513C)

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*
Critical habitat, vernal pool tadpole shrimp (X)
vernal pool tadpole shrimp (E)

Fish

- Hypomesus transpacificus*
delta smelt (T)
- Oncorhynchus mykiss*
Central Valley steelhead (T) (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)

Birds

- Charadrius alexandrinus nivosus*
western snowy plover (T)

Plants

- Neostapfia colusana*
Critical habitat, Colusa grass (X)
- Tuctoria mucronata*
Critical habitat, Solano grass (=Crampton's tuctoria) (X)

SACRAMENTO WEST (513D)

Listed Species

Invertebrates

- 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)
- Hypomesus transpacificus*
Critical habitat, delta smelt (X)
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 aurora draytonii
 California red-legged frog (T)

Reptiles

Thamnophis gigas
 giant garter snake (T)

WOODLAND (514A)**Listed Species****Invertebrates**

Branchinecta lynchi
 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)

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)

SHERIDAN (528B)**Listed Species****Invertebrates**

Branchinecta lynchi
 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

Rana aurora draytonii

California red-legged frog (T)

Reptiles

Thamnophis gigas

giant garter snake (T)

PLEASANT GROVE (528C)

Listed Species

Invertebrates

Branchinecta lynchi

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

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)

NICOLAUS (529A)

Listed Species

Invertebrates

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)

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)
winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

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)

SUTTER CAUSEWAY (529B)

Listed Species

Invertebrates

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)
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)
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)

KNIGHTS LANDING (529C)**Listed Species****Invertebrates**

- 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)
- 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 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)

VERONA (529D)**Listed Species****Invertebrates**

- 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)
- 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 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)

KIRKVILLE (530A)

Listed Species

Invertebrates

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)

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 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)

ELDORADO BEND (530D)**Listed Species****Invertebrates**

- 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)
- 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 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)

BROWNS VALLEY (543B)**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

- 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)

winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

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)

WHEATLAND (543C)

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 packardi

Critical habitat, vernal pool tadpole shrimp (X)

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

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)

YUBA CITY (544A)

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 packardi*
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)
winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

- 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)

SUTTER (544B)

Listed Species

Invertebrates

- Branchinecta lynchi*
vernal pool fairy shrimp (T)
- Desmocerus californicus dimorphus*
valley elderberry longhorn beetle (T)
- Lepidurus packardi*
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)
 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)

GILSIZER SLOUGH (544C)

Listed Species

Invertebrates

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)
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)
 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)

OLIVEHURST (544D)

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 packardi*
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)
winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

- 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)

LOMA RICA (559C)**Listed Species****Invertebrates**

- Branchinecta lynchi*
vernal pool fairy shrimp (T)
- Desmocerus californicus dimorphus*
valley elderberry longhorn beetle (T)

Fish

- Hypomesus transpacificus*
delta smelt (T)
- Oncorhynchus mykiss*
Central Valley steelhead (T) (NMFS)
- Oncorhynchus tshawytscha*
Central Valley spring-run chinook salmon (T) (NMFS)
winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

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

Candidate Species**Birds**

Coccyzus americanus occidentalis
Western yellow-billed cuckoo (C)

HONCUT (560D)

Listed Species

Invertebrates

Branchinecta lynchi
vernal pool fairy shrimp (T)
Desmocerus californicus dimorphus
valley elderberry longhorn beetle (T)
Lepidurus packardi
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)
winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

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)

BUTTE CITY (561B)

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 packardi
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)
- 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)

PRINCETON (562A)**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)
- 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)

Birds

- Strix occidentalis caurina*
- northern spotted owl (T)

Candidate Species

Birds

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

LOGANDALE (562B)

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

- Hypomesus transpacificus*
delta smelt (T)
- Oncorhynchus mykiss*
Central Valley steelhead (T) (NMFS)
- Oncorhynchus tshawytscha*
Central Valley spring-run chinook salmon (T) (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)

Birds

- Strix occidentalis caurina*
northern spotted owl (T)

Plants

- Chamaesyce hooveri*
Hoover's spurge (T)
- Cordylanthus palmatus*
palmate-bracted bird's-beak (E)
- Orcuttia pilosa*
hairy Orcutt grass (E)
- Tuctoria greenei*
Greene's tuctoria (=Orcutt grass) (E)

Candidate Species

Birds

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

ORD FERRY (577B)

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 packardi*
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)

Candidate Species**Birds**

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

LLANO SECO (577C)**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 packardi*
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)

Candidate Species

Birds

Coccyzus americanus occidentalis
Western yellow-billed cuckoo (C)

HAMILTON CITY (578A)

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)

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)

Candidate Species

Birds

Coccyzus americanus occidentalis
Western yellow-billed cuckoo (C)

ORLAND (578B)

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

Hypomesus transpacificus

delta smelt (T)

Oncorhynchus mykiss

Central Valley steelhead (T) (NMFS)

Oncorhynchus tshawytscha

Central Valley spring-run chinook salmon (T) (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)

Candidate Species

Birds

Coccyzus americanus occidentalis

Western yellow-billed cuckoo (C)

WILLOWS (578C)

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

Hypomesus transpacificus

delta smelt (T)

Oncorhynchus mykiss

Central Valley steelhead (T) (NMFS)

Oncorhynchus tshawytscha

Central Valley spring-run chinook salmon (T) (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)

Candidate Species

Birds

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

GLENN (578D)

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)
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)

Candidate Species

Birds

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

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 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.

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 [critical habitat page](#) for maps.

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 May 29, 2008.