

**Table 7-3
Special-Status Species in the Santa Clara Basin¹**

Ref No.	Species	Common Name	Status					Habitat Descriptions and Notes
			Federal ²	California ³	CDFG ⁴	CNPS ⁵	Other ^{6,7,8}	
Invertebrates								
I-2	<i>Calicina minor</i>	Edgewood blind harvestman	Species of concern	None				Open grassland in areas of serpentine bedrock.
I-3	<i>Danaus plexippus</i>	Monarch butterfly	None	None				Winter roost sites extend along the coast from northern Mendocino to Baja California, Mexico. Open habitats with milkweed including meadows, weedy areas, fields, and roadsides. (Note: No formal special-status classification, but being tracked for possible classification in the future.)
I-4	<i>Euphydryas editha bayensis</i>	Bay checkerspot butterfly	Threatened	None				Native grasslands, commonly on outcrops of serpentine soil in the vicinity of San Francisco Bay.
I-5	<i>Lepidurus packardi</i>	Vernal pool tadpole shrimp	Endangered	None				Inhabits vernal pools and swales containing clear to highly turbid water in Sacramento Valley, coast ranges, and a limited number of sites in the Transverse Range and Santa Rosa Plateau.
Fish								
F1	<i>Oncorhynchus mykiss</i>	Steelhead-central California coast ESU	Threatened	None				Rivers and tributaries of the central coast and San Francisco Bay.
F-3	<i>Oncorhynchus tshawytscha</i>	Chinook salmon fall run	None; Proposed but not listed in Final Rule; Central Valley Fall-Run Chinook Salmon ESU is considered a candidate species.	None	Species of Special Concern			Cool, well oxygenated streams with gravelly substrates and surrounding habitat that provides sufficient instream cover and complexity.

**Table 7-3 (continued)
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Amphibians								
A-1	<i>Ambystoma californiense</i>	California tiger salamander	Candidate	None	Protected/ Species of Special Concern			According to the CNDDDB: Annual grasslands and grassy understory of valley-foothill hardwood habitats in central and northern California. Ephemeral creeks and vernal pools. According to D. Padley, SCVWD: This species is not found in creeks and rivers, it is found in ponds and vernal pools.
A-2	<i>Rana aurora draytonii</i>	California red-legged frog	Threatened	None	Protected/ Species of Special Concern			Mostly in lowlands and foothills in/near permanent or ephemeral sources of deep water, but will disperse far during and after rain. Grassland, woodland, forest, marsh, and lakes where bullfrogs have not been introduced.
A-3	<i>Scaphiopus hammondi</i>	Western spadefoot	Species of concern	None	Protected/ Species of Special Concern			Grassland, valley foothill hardwood woodlands, vernal pool, and slow creeks for breeding and egg-laying.
A-4	<i>Rana boylei</i>	Foothill yellow-legged frog	Species of concern	None	Protected/ Species of Special Concern			Partly shaded shallow streams in woodland, chaparral, or forests with rocky substrate at least the size of cobbles.
Reptiles								
R-1	<i>Clemmys marmorata</i>	Western pond turtle	Species of concern	None	Protected/ Species of Special Concern			Ponds, marshes, rivers, streams and irrigation ditches with aquatic vegetation. Stream population overwinter upland in dense vegetation. Requires sparsely vegetated upland soils for nesting. Grassland and oak woodland.

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R-3	<i>Phrynosoma coronatum frontale</i>	California horned lizard	Species of concern	None	Protected/ Species of Special Concern			Dry, soft soil grassland, open coastal scrub, oak woodland.
R-4	<i>Thamnophis sirtalis tetrataenia</i>	San Francisco garter snake	Endangered	Endangered	Fully protected			Vicinity of freshwater marshes, ponds, and slow-moving streams in San Mateo County and extreme northern Santa Cruz County.
Birds⁹								
B-1	<i>Accipiter striatus</i>	Sharp-shinned hawk	None	None	Species of Special concern		6a	Nests at high elevations in the Santa Clara Basin.
B-2	<i>Accipiter cooperii</i>	Cooper's hawk	None	None	Species of Special Concern		6a	Open woodland Riparian woodland Urban areas
B-3	<i>Agelaius tricolor</i> (nesting colony)	Tricolored blackbird	Species of concern	None	Species of Special Concern			Highly colonial species, most numerous in the Central Valley and vicinity. Largely endemic to California. Grassland, freshwater marsh, riparian habitats, dairies, and feedlots. Small breeding colonies at reservoirs, private and public lakes, and urban parks.
B-4	<i>Aquila chrysaetos</i> (nesting and wintering)	Golden eagle	None	None	Fully Protected/ Species of Special Concern			Rolling foothill or coast-range terrain, where open grassland turns to scattered oaks, sycamores, or large foothill pines. Nests in upper portion of Coyote watershed. One or two pairs recorded in upper Guadalupe watershed.

**Table 7-3 (continued)
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B-5	<i>Asio flammeus</i>	Short-eared owl	None	None	Species of Special Concern			Saltwater marsh, tall grass meadow, freshwater marsh, agricultural land. Last known nest in 1974, although nests north of basin on Bair Island.
B-6	<i>Asio otus</i> (nesting)	Long-eared owl	None	None	Species of Special Concern			Found in riparian bottomlands grown to tall willows and cottonwoods; also, belts of live oak paralleling stream courses. Nests in open or semi-open short grass or sparsely vegetated areas. One nest record in the Santa Clara Basin in coniferous and broad-leaved evergreen forests.
B-7	<i>Athene cunicularia</i> (burrow sites)	Burrowing owl	Species of concern	None	Species of Special Concern		7a	Found in open, dry annual or perennial grasslands, deserts, scrublands, and levees characterized by low-growing vegetation. Not known to nest in the area.
B-8	<i>Buteo regalis</i> (wintering)	Ferruginous hawk	None	None	Species of Special Concern		7b	Open grasslands, plains, foothills
B-9	<i>Charadrius alexandrinus nivosus</i> (nesting)	Western snowy plover	Threatened	None	Species of Special Concern		USFWS: MNBMC	Sandy beaches on marine and estuarine shore. Also salt pond levees and the shores of large alkali lakes.
B-10	<i>Circus cyaneus</i> (nesting)	Northern harrier	None	None	Species of Special Concern			Coastal salt marsh and freshwater marsh. Nests and forage in grasslands, from salt grass in desert sink to mountain cienegas.
B-11	<i>Coccyzus americanus occidentalis</i>	Western yellow-billed cuckoo	None	Endangered			6c, USFWS: MNBMC	Riparian. No breeding records since the late 1880's. Rare migrant. One has been recorded in the last decade.

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Special-Status Species in the Santa Clara Basin¹**

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B-12	<i>Coturnicops noveboracensis</i>	Yellow rail	None	None	Species of Special Concern			Freshwater marshes and marshy meadows. Observed in salt marshes during winter.
B-14	<i>Dendroica petechia brewsteri</i>	Yellow warbler	None	None	Species of Special Concern		7c	Riparian.
B-15	<i>Elanus leucurus</i> (nesting)	White-tailed kite	None	None	Fully Protected		USFWS: MNBMC	Low rolling foothills/valley margins with scattered oaks and river bottomlands or marshes adjacent to deciduous woodland
B-16	<i>Empidonax trailii</i>	Willow flycatcher	None	Endangered			6c, 7d	Riparian.
B-17	<i>Eremophila alpestris actia</i>	California horned lark	None	None	Species of Special Concern			Grasslands.
B-18	<i>Falco columbarius</i>	Merlin	None	None			6d	Seacoast, open woodland, savanna, and grassland
B-19	<i>Falco peregrinus anatum</i>	American peregrine falcon	Delisted	Endangered			7e	Seacoast, islands, and seacliffs. Forages in almost any open habitat
B-20	<i>Geothlypis trichas sinuosa</i>	Saltmarsh common yellowthroat	Species of concern	None	Species of Special Concern		8a	Riparian, freshwater, brackish water, and saltwater marshes.
B-21	<i>Gymnogyps californianus</i>	California condor	Endangered	Endangered	Fully Protected			Mountain, grasslands, and savannahs.
B-22	<i>Haliaeetus leucocephalus</i>	Bald eagle	Threatened, Potential for Delisting	Endangered	Fully protected		6e	Seacoast, islands, sea cliffs, large lakes and rivers, and coastal lagoons
B-23	<i>Icteria virens</i>	Yellow-breasted chat	None	None	Species of Special Concern		6b	Riparian.
B-24	<i>Lanius ludovicianus</i>	Loggerhead shrike	None	None	Species of Special Concern			Grasslands, fields, broken woodlands, agricultural land, and other open spaces.

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B-25	<i>Larus californicus</i> (nesting)	California gull	None	None	Species of Special Concern			Open sea, seacoast, sea beaches, estuaries, bays, harbors, lakes, rivers, freshwater marshes, and saltwater marshes
B-26	<i>Laterallus jamaicensis coturniculus</i>	California black rail	Species of concern	Threatened	Fully protected		7f	Mainly inhabits salt marshes bordering larger bays.
B-27	<i>Melospiza melodia pusillula</i>	Alameda song sparrow	None	None	Species of Special Concern		6f	Saline emergent wetland, shores, and lagoons.
B-28	<i>Pandion haliaetus</i> (nesting)	Osprey	None	None	Species of Special Concern			Seacoast, coastal lagoons, estuaries, rivers, large lakes, and reservoirs. Nests on rivers, streams, bays, and lakes.
B-29	<i>Pelecanus occidentalis californicus</i> (nesting colony)	California brown pelican	Endangered	Endangered	Fully protected		USFWS: MNBMC	Coastal beaches. Colonial nester on coastal islands of small to moderate size.
B-30	<i>Plegadis chichi</i> (nesting)	White-faced ibis	Species of concern	None	Species of Special Concern		USFWS: MNBMC	Inhabits shallow freshwater marsh. Nesting habitat contains dense thickets of tule interspersed with areas of shallow water for foraging.
B-31	<i>Rallus longirostris obsoletus</i>	California clapper rail	Endangered	Endangered	Fully protected			Saltwater marshes traversed by tidal sloughs in the vicinity of San Francisco Bay.
B-33	<i>Rhynchops niger</i> (nesting colony)	Black skimmer	None	None	Species of Special Concern			Seacoast, shallow bays, and estuaries
B-34	<i>Sterna antillarum browni</i> (nesting colony)	California least tern	Endangered	Endangered	Fully protected		7g, FWS: MNBMC	Nests along the coast from San Francisco Bay south to northern Baja California. Marine and estuarine shores and lagoons.

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Special-Status Species in the Santa Clara Basin¹**

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			Federal ²	California ³	CDFG ⁴	CNPS ⁵	Other ^{6,7,8}	
Mammals								
M-1	<i>Antrozous pallidus</i>	Pallid bat			Species of Special Concern			Open, dry, areas with rocky areas for roosting. Roosting habitat includes rock crevices, tree hollows, caves, mines, old buildings, and bridges. Foraging habitat includes oak savannah, open forest, riparian areas, creeks, and rivers. Habitat associations include oak savannah, ponderosa pine, and mixed deciduous-conifer forest.
M-2	<i>Corynorhinus townsendii</i>	Townsend's big eared bat	Species of concern		Species of Special Concern			Prefers mesic areas; roosts in caves or similar structures. Highly intolerant of human disturbance. Foraging habitat includes riparian areas, vegetated gullies, creeks, and rivers. Habitat associations include mixed deciduous-conifer forest and oak/hardwood woodland.
M-3	<i>Eumops perotis californicus</i>	Western mastiff bat	Species of concern		Species of Special Concern			Forages often in open, semiarid areas; also over wet meadows, lakes, and reservoirs. Roosts in cliffs. Habitat associations include oak savannah.
M-4	<i>Lasiurus blossevillii</i>	Western red bat			Presently being reviewed for Species of Special Concern status			Roosts in riparian foliage such as cottonwood, sycamore, willow, orchards, and eucalyptus. Forages in riparian habitat and creeks and rivers and is the most dependent on riparian habitat of all bat species.

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			Federal ²	California ³	CDFG ⁴	CNPS ⁵	Other ^{6,7,8}	
M-5	<i>Myotis evotis</i>	Long-eared bat	Species of concern					Roosts under bark, rock crevices, in old buildings and bridges. Forages in association with vegetation; riparian areas, oak woodland, creeks and rivers, lakes and ponds. Habitat association includes oak woodland, mixed deciduous conifer forests.
M-6	<i>Myotis thysanodes</i>	Fringed myotis	Species of concern					Roosts in tree hollows, rock crevices, mines, caves, in old buildings and bridges. Intolerant of human disturbance. Forages in riparian forest settings, creeks and rivers, lakes and ponds. Habitat association includes mixed deciduous conifer forests, mixed hardwood-conifer forests, coastal forests, and pinyon-juniper forests.
M-7	<i>Myotis volans</i>	Long-legged bat	Species of concern					Habitat association includes mixed deciduous conifer forests, brushy areas; roosts in tree hollows (large conifer snags), rock crevices and cliffs, mines, caves, and buildings. Forages in riparian forest settings, oak savannahs, creek and river drainages, and lakes and ponds.
M-8	<i>Myotis yumanensis</i>	Yuma myotis	Species of concern					Roosts in tree hollows, mines, caves, and buildings. Highly colonial and relatively tolerant of humans. Forages over open still water on aquatic emergent insects. Breeding populations at lower elevations. Habitat association includes oak savannah, coastal forests, and mixed deciduous conifer forests.

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M-9	<i>Reithrodontomys raviventris</i>	Salt marsh harvest mouse	Endangered	Endangered	Fully protected			Only in the saline and brackish emergent wetlands of San Francisco Bay and its tributaries.
M-10	<i>Sorex vagrans halicoetes</i>	Salt marsh wandering shrew	Species of concern	None	Species of Special Concern			Salt marshes of the south arm of San Francisco Bay.
M-11	<i>Dipodomys ingens</i>	Giant kangaroo rat	Endangered	Endangered				Annual grassland and alkali scrub with sandy loam soils.
M-12	<i>Vulpes macrotis mutica</i>	San Joaquin kit fox	Endangered	Threatened				Annual grasslands or grassy open stages with scattered shrubby vegetation.
Plants								
P-1	<i>Acanthomintha duttonii</i>	San Mateo thorn-mint	Endangered	Endangered		1b		Chaparral, valley and foothill grassland, coastal scrub, and vernal pools. Endemic to San Mateo serpentine clay.
P-2	<i>Arctostaphylos andersonii</i>	Santa Cruz manzanita	Species of concern	None		1b		Broadleaved upland forest, chaparral, and north coast coniferous forest. Known only from the Santa Cruz Mountains.
P-3	<i>Astragalus tener</i> var. <i>tener</i>	Alkali milk-vetch	None	None		1b		Alkali playa, valley and foothill grassland, and vernal pools.
P-4	<i>Balsamorhiza macrolepis</i> var. <i>macrolepis</i>	Big-scale balsamroot	None	None		1b		Valley and foothill grassland, cismontane woodland.
P-5	<i>Castilleja affinis</i> ssp <i>neglecta</i>	Tiburon Indian paintbrush	Endangered	Threatened		1b		Valley and foothill grassland, and serpentine soils. Known only from Marin, Napa, and Santa Clara counties.

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P-6	<i>Ceanothus ferrisae</i>	Coyote ceanothus	Endangered	None		1b		Chaparral, valley and foothill grassland, coastal scrub, and serpentine soils. Endemic to Santa Clara county.
P-7	<i>Chorizanthe robusta</i> var. <i>robusta</i>	Robust spineflower	Endangered	None		1b		Cismontane woodland, coastal dunes, and coastal scrub.
P-8	<i>Cirsium fontinale</i> var. <i>campylon</i>	Mt. Hamilton thistle	Species of concern	None		1b		Cismontane woodland, chaparral, valley and foothill grassland, serpentine seeps, and streams.
P-10	<i>Clarkia concinna</i> ssp. <i>automixa</i>	Santa Clara red ribbons	Species of concern	None		1b		Cismontane woodland, and chaparral.
P-12	<i>Coreopsis hamiltonii</i>	Mt. Hamilton coreopsis	Species of concern	None		1b		Cismontane woodland. Only known from Santa Clara and Stanislaus counties.
P-13	<i>Dirca occidentalis</i>	Western leatherwood	None	None		1b		Broadleaved upland forest, chaparral, cismontane woodland, north coast coniferous forest, riparian forest, and riparian woodland.
P-14	<i>Dudleya setchellii</i>	Santa Clara Valley dudleya	Endangered	None		1b		Valley and foothill grassland, and cismontane woodland. Endemic to serpentine soils of Santa Clara county.
P-16	<i>Fritillaria liliacea</i>	Fragrant fritillary	Species of concern	None		1b		Coastal scrub, valley and foothill grassland, coastal prairie, and sandy soil in coastal habitats.
P-17	<i>Hemizonia parryi</i> ssp. <i>congdonii</i>	Congdon's tarplant	Species of concern	None		1b		Valley and foothill grassland.
P-18	<i>Lasthenia conjugens</i>	Contra Costa goldfields	Endangered	None		1b		Valley and foothill grassland, and vernal pools.
P-19	<i>Legenere limosa</i>	Legenere	Species of concern	None		1b		Vernal pools.

**Table 7-3 (concluded)
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P-20	<i>Lessingia arachnoidea</i>	Crystal Springs lessingia	Species of concern	None		1b		Coastal sage scrub, valley and foothill grassland, cismontane woodland, serpentine soils in disturbed habitats, and ultramafic.
P-21	<i>Lessingia micradenia</i> var. <i>glabrata</i>	Smooth lessingia	Species of concern	None		1b		Chaparral.
P-22	<i>Malacothamnus hallii</i>	Hall's bush mallow	None	None		1b		Chaparral.
P-23	<i>Monardella villosa</i> ssp <i>globosa</i>	Robust monardella	None	None		1b		Chaparral, cismontane woodland.
P-24	<i>Penstemon rattanii</i> var. <i>kleei</i>	Santa Cruz Mtns. beardtongue	None	None		1b		Chaparral, lower montane coniferous forest.
P-25	<i>Plagiobothrys glaber</i>	Hairless popcorn-flower	None	None		1a		Meadows, coastal marshes, and alkali soils.
P-26	<i>Potamogeton filiformis</i>	Slender-leaved pondweed	None	None		2		Marshes, swamps, lakes, and drainage channels.
P-27	<i>Sanicula saxatilis</i>	Rock sanicle	Species of concern	Rare		1b		Broadleaved upland forest, chaparral, and rocky soil.
P-28	<i>Sidalcea malachroides</i>	Maple-leaved checkerbloom	None	None		1b		Broadleaved upland forest, coastal prairie, coastal scrub, north coast coniferous forest, and disturbed habitats.
P-29	<i>Streptanthus albidus</i> ssp <i>albidus</i>	Metcalf Canyon jewel-flower	Endangered	None		1b		Valley and foothill grassland, serpentine barrens.
P-30	<i>Streptanthus albidus</i> ssp <i>peramoenus</i>	Most beautiful jewel-flower	Species of concern	None		1b		Chaparral, and valley and foothill grassland.
P-31	<i>Streptanthus callistus</i>	Mt. Hamilton jewel-flower	Species of concern	None		1b		Chaparral, cismontane woodland, and serpentine soils.
P-32	<i>Suaeda californica</i>	California seablite	Endangered	None		1b		Salt marsh.

Notes on following pages.

Notes:

¹ Table 7-3 is based on WMI's Technical Memorandum No. 32: Recommended List of Special-Status Species for RARE Assessment, approved by the Core Group May 4, 2000. Information for the technical memorandum was compiled from various databases including the CNDDDB, the California Native Plant Society Inventory, and the Santa Clara Valley Audubon Society Bird Species List for Santa Clara Valley and was reviewed by a number of stakeholders and biologists. The species in Table 7-3 should be considered as the current list of special-status species in the Santa Clara Basin. The reader is referred to the technical memorandum for a description of how this list was developed and the rationale of inclusion and exclusion of species in the list.

² Federal Status:

Endangered	Listed as endangered under the federal Endangered Species Act
Threatened	Listed as threatened under the federal Endangered Species Act
Candidate	Candidate for listing under the federal Endangered Species Act
Species of Concern	Informal designation by USFWS; no formal listing status; may qualify for consideration under CEQA

³ State Status:

Endangered	Listed as endangered under the California Endangered Species Act
Threatened	Listed as threatened under the California Endangered Species Act
Rare	Plant species listed as Rare under the California Native Plant Protection Act and the California Endangered Species Act

⁴ California Department of Fish and Game:

Species of Special Concern	Animal species designated by CDFG for protection; qualify for consideration under CEQA
Protected and Fully Protected	Animal species that may not be taken or possessed without a permit from the Fish and Game Commission and/or the Department of Fish and Game

⁵ California Native Plant Society Inventory (Skinner and Pavlik 1994):

1a	Plant species believed to be extinct
1b	Plant species that are rare, threatened, or endangered in California and elsewhere
2	Plant species that are rare, threatened, or endangered in California but more common elsewhere

Other:

USFWS:MNBM U.S. Fish and Wildlife Service: Migratory Nongame Birds of Management Concern

⁶ San Francisco Bay Bird Observatory (Janet Hanson)

- a. Known to nest in county
- b. Extirpated from area, but may potentially reestablish in restored or enhanced riparian areas
- c. Winters in county; observed foraging in riparian areas
- d. California Department of Forestry- Sensitive Species; Winters in county. Observed foraging along Coyote Creek and Palo Alto baylands near the mouth of San Francisquito Creek
- e. Observed at the mouth of San Francisquito Creek

Notes (concluded):

⁷ Santa Clara Valley Breeding Bird Atlas (Bill Bousman)

- a. Not known to nest in area
- b. Known to winter in county
- c. Uncommon to rare summer resident
- d. Last nesting was recorded in the early 1960s; never common, it is now gone
- e. Has nested in the area at least once in the last decade
- f. Nested in the Basin a century ago (circa 1900); unlikely to reoccur due to land subsidence
- g. Does not breed in the Basin

⁸ San Francisco Bay Bird Observatory (Alvaro Jaramillo)

a. Breeding of this endemic subspecies appears to be away from salt marshes, but takes both open riparian habitats as well as freshwater marshes. During winter and migration other subspecies arrive in the area, making it difficult to determine exactly in which habitats the *sinuosa* subspecies is found.

⁹ Bird species with no federal or state status, but which have shown significant population decline in the Basin (B. Bousman, SCVBBA)

- (1) Lesser Nighthawk (last nested in 1937 or so on Coyote Creek, flood control has probably eliminated original habitat)
- (2) Swainson's Thrush (once common on valley floor in riparian areas, now gone)
- (3) Wilson's Warbler (once abundant on the valley floor riparian areas, now gone)