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Attachments 1-7

Wildlife Resources Technical Report

Shasta Lake Water Resources Investigation, California

Prepared by:

**United States Department of the Interior
Bureau of Reclamation
Mid-Pacific Region**



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Attachment 1 Special-Status Wildlife Species Potentially Occurring in the Shasta Lake and Vicinity Portion of the Primary Study Area

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Attachment 1 – Special-Status Wildlife Species Potentially Occurring
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Table A1-1. Special-Status Wildlife Species Potentially Occurring in the Shasta Lake and Vicinity Portion of the Primary Study Area

Common Name Scientific Name	Status ¹ (Fed/State/USFS)	General Habitat Description	Possibly Occurring (Y/N)	Reason for Non- Consideration in Shasta Lake and vicinity Portion of the Primary Study Area
Federally or State- Listed Species				
Shasta crayfish <i>Pacifastacus fortis</i>	FE, CE	Cool, spring-fed headwaters characterized by clean, volcanic cobbles and boulders overlying sand or gravel substrates. Pit River, Fall River, and Hat Creek drainages in Shasta County.	N	Shasta Lake and vicinity portion of the primary study area is not within the known distribution of this species.
Valley elderberry longhorn beetle <i>Desmocerus californicus dimorphus</i>	FT	Elderberry shrubs associated with riparian forests that occur along rivers and streams.	N	Suitable habitat (elderberry shrubs) not present.
California red-legged frog <i>Rana aurora draytonii</i>	FT, CSC, MSCS	Require aquatic habitat for breeding, also use a variety of other habitat types including riparian and upland areas. Adults utilize dense, shrubby, or emergent vegetation associated with deep-water pools.	N	Suitable habitat (deep pools with emergent vegetation) not present.
Greater sandhill crane <i>Grus canadensis tabida</i>	CT, CP	Wetlands required for breeding; forage in nearby pastures, fields, and meadows.	N	Suitable habitat not present.
American peregrine falcon <i>Falco peregrinus anatum</i>	FD, CE, USFS S, CP, MSCS	Forages in many habitats; requires cliffs for nesting.	Y	N/A
Willow flycatcher <i>Empidonax traillii</i>	CE, USFS S, MSCS	Wet meadow and montane riparian habitats; dense willow thickets required for nesting and roosting.	Y	N/A

Table A1-1. Special-Status Wildlife Species Potentially Occurring in the Shasta Lake and Vicinity Portion of the Primary Study Area (contd.)

Common Name Scientific Name	Status ¹ (Fed/State/USFS)	General Habitat Description	Possibly Occurring (Y/N)	Reason for Non- Consideration in Shasta Lake and vicinity Portion of the Primary Study Area
Bald eagle <i>Haliaeetus leucocephalus</i>	FD, SE, MSCS	Uncommon to common in riverine and open wetland habitats. Perches high in large, stoutly limbed trees, on snags or broken-topped trees or on rocks near water. Roosts communally in winter in dense, sheltered, remote conifer stands.	Y	N/A
Northern spotted owl <i>Strix occidentalis caurina</i>	FT, MSCS	In Northern California, resides in large stands of old growth, multi-layered mixed conifer, redwood and Douglas-fir habitats	Y	N/A
Bank swallow <i>Riparia riparia</i>	CT	Colonial nester on vertical banks or cliffs with fine-textured soils near water.	N	The banks of Shasta Lake are not of a suitable texture for the creation of nest burrows.
California wolverine <i>Gulo gulo luteus</i>	CT	A variety of habitats within the elevations of 1,600 and 14,200 feet. Most commonly inhabits open terrain above timberline.	N	Shasta Lake and vicinity portion of the primary study area is below the species' elevational requirements.
Sierra Nevada red fox <i>Vulpes vulpes nector</i>	CT, USFS S	Red fir and lodgepole pine forests in the sub-alpine zone and alpine fell-fields of the Sierra Nevada.	N	Shasta Lake and vicinity portion of the primary study area is below the species' elevational requirements.

Attachment 1 – Special-Status Wildlife Species Potentially Occurring in the Shasta Lake and Vicinity Portion of the Primary Study Area

Table A1-1. Special-Status Wildlife Species Potentially Occurring in the Shasta Lake and Vicinity Portion of the Primary Study Area (contd.)

Common Name Scientific Name	Status ¹ (Fed/State/USFS)	General Habitat Description	Possibly Occurring (Y/N)	Reason for Non- Consideration in Shasta Lake and vicinity Portion of the Primary Study Area
Other Special Status Species				
Wintu sideband <i>Monadenia troglodytes wintu</i>	USFS S, M	Inhabits pine-oak woodlands especially near limestone.	Y	N/A
Shasta sideband <i>Monadenia troglodytes troglodytes</i>	USFS S, M, MSCS	Inhabits pine-oak woodlands especially near limestone.	Y	N/A
Shasta chaparral <i>Trilobopsis roperi</i>	USFS S, M	Found in shaded limestone rockslides with shrub or oak cover.	Y	N/A
Shasta hesperian <i>Vespericola shasta</i>	USFS S, M	River edges under bark and debris, calciphile.	Y	N/A
Shasta salamander <i>Hydromantes shastae</i>	CT, USFS S, M, MSCS	Moist limestone fissures and caves, in volcanic and other rock outcroppings, and under woody debris in mixed pine-hardwood stands.	Y	N/A
Tailed frog <i>Ascaphus truei</i>	CSC	Clear, rocky, swift, cool perennial streams in densely forested habitats.	Y	N/A
Foothill yellow-legged frog <i>Rana boylei</i>	CSC, USFS S, MSCS	Rocky streams in a variety of habitats. Found in coast ranges.	Y	N/A
Cascade frog <i>Rana cascadae</i>	CSC, USFS S	Open coniferous forests along the sunny, rocky banks of ponds, lakes, streams, and meadow potholes. From 2,600 to 9,000 feet elevation in Cascades and Trinity Mountains.	N	Shasta Lake and vicinity portion of the primary study area is below the species' elevational requirements.
Western spadefoot toad <i>Spea hammondi</i>	CSC	Grasslands with temporary pools.	N	Suitable habitat not present.

Table A1-1. Special-Status Wildlife Species Potentially Occurring in the Shasta Lake and Vicinity Portion of the Primary Study Area (contd.)

Common Name Scientific Name	Status¹ (Fed/State/USFS)	General Habitat Description	Possibly Occurring (Y/N)	Reason for Non- Consideration in Shasta Lake and vicinity Portion of the Primary Study Area
Northwestern pond turtle <i>Clemmys marmorata marmorata</i>	CSC, USFS S, MSCS	Slow water aquatic habitat with available basking sites. Hatchlings require shallow water with dense submergent or short emergent vegetation. Requires an upland oviposition site near the aquatic site.	Y	N/A
Long-billed curlew <i>Numenius americanus</i>	CSC	Large coastal estuaries, upland herbaceous areas, and croplands. Breeds in wet meadow habitat.	N	Suitable habitat not present.
Cooper's hawk <i>Accipiter cooperii</i>	CSC	Nests in woodlands, forages in many habitats in winter and migration.	Y	N/A
Northern goshawk <i>Accipiter gentilis</i>	CSC, USFS S	Breeds in dense, mature conifer and deciduous forests, interspersed with meadows, other openings and riparian areas; nesting habitat includes north-facing slopes near water.	Y	N/A
Sharp-shinned hawk <i>Accipiter striatus</i>	CSC	Typically nests in dense conifer stands near water, winters in woodlands. Forages in many habitats in winter and migration.	Y	N/A
Tricolored blackbird <i>Agelaius tricolor</i>	MSCS	Breeds near fresh water, preferably in emergent wetlands with tall dense cattails or tules.	N	Suitable habitat not present.
Golden eagle <i>Aquila chrysaetos</i>	CSC, CP	Breeds on cliffs or in large trees or electrical towers, forages in open areas.	N	Neither cliffs for nesting nor large open areas for foraging present.

Attachment 1 – Special-Status Wildlife Species Potentially Occurring in the Shasta Lake and Vicinity Portion of the Primary Study Area

Table A1-1. Special-Status Wildlife Species Potentially Occurring in the Shasta Lake and Vicinity Portion of the Primary Study Area (contd.)

Common Name Scientific Name	Status ¹ (Fed/State/USFS)	General Habitat Description	Possibly Occurring (Y/N)	Reason for Non- Consideration in Shasta Lake and vicinity Portion of the Primary Study Area
Great blue heron <i>Ardea herodias</i>	MSCS	For nesting, prefers secluded groves of tall trees near shallow-water feeding areas. Forages in shallow estuaries, fresh and saline emergent wetlands, rivers, creeks croplands, and pastures.	Y	N/A
Long-eared owl <i>Asio otus</i>	CSC, MSCS	Dense riparian and live oak thickets near meadow edges, and nearby woodland and forest habitats; also found in dense conifer stands at higher elevations.	Y	N/A
Western burrowing owl <i>Athene cunicularia hypugaea</i>	CSC	Grasslands and ruderal habitats.	N	Suitable habitat not present.
Ferruginous hawk <i>Buteo regalis</i>	CSC	Forages in grasslands and occasionally in other open habitats during migration and winter.	N	Large areas of open habitat for foraging not present.
Merlin <i>Falco columbarius</i>	CSC	Frequents ocean shorelines, lake margins, and large, open river courses near tree stands for both nesting and wintering habitat. Does not breed in California.	Y	N/A
Prairie falcon <i>Falco mexicanus</i>	CSC	Occurs in open habitats such as grasslands, desert scrub, rangelands, and croplands.	N	Large areas of open habitats not present.

Table A1-1. Special-Status Wildlife Species Potentially Occurring in the Shasta Lake and Vicinity Portion of the Primary Study Area (contd.)

Common Name Scientific Name	Status ¹ (Fed/State/USFS)	General Habitat Description	Possibly Occurring (Y/N)	Reason for Non- Consideration in Shasta Lake and vicinity Portion of the Primary Study Area
Osprey <i>Pandion haliaetus</i>	CSC, MSCS	Ocean shorelines, lake margins, and large, open river courses for both nesting and wintering habitat.	Y	N/A
California spotted owl <i>Strix occidentalis occidentalis</i>	CSC	Dense, multi-layered mixed conifer, redwood and Douglas-fir habitats with large overstory trees.	N	Shasta Lake and vicinity portion of the primary study area is outside species' currently known range.
Tricolored blackbird <i>Agelaius tricolor</i>	CSC	Breeds near fresh water in dense emergent vegetation.	N	Dense emergent vegetation not present in the Shasta Lake and vicinity portion of the primary study area.
Bell's sage sparrow <i>Amphispiza belli belli</i>	CSC	Breeds in Diablan sage scrub habitat.	N	Diablan sage scrub not present.
Black swift <i>Cypseloides niger</i>	CSC	Nests in moist crevices or caves or sea cliffs above the surf or on cliffs behind, or adjacent to, waterfalls in deep canyons; forages widely over many habitats.	N	Suitable nesting habitat is not present in the Shasta Lake and vicinity portion of the primary study area.
Vaux's swift <i>Chaetura vauxi</i>	CSC	Prefers redwood and Douglas-fir habitats, nests in hollow trees and snags or, occasionally, in chimneys; forages aerially.	Y	N/A
Western yellow-billed cuckoo <i>Coccyzus americanus occidentalis</i>	FC, USFS S	Nesting habitat is cottonwood/willow riparian forest.	N	Suitable riparian forest not present and the Shasta Lake and vicinity portion of the primary study area is outside the known range of the species.

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Table A1-1. Special-Status Wildlife Species Potentially Occurring in the Shasta Lake and Vicinity Portion of the Primary Study Area (contd.)

Common Name Scientific Name	Status ¹ (Fed/State/USFS)	General Habitat Description	Possibly Occurring (Y/N)	Reason for Non- Consideration in Shasta Lake and vicinity Portion of the Primary Study Area
California yellow warbler <i>Dendroica petechia brewsteri</i>	CSC	Breeds in riparian woodlands, particularly those dominated by willows and cottonwoods.	Y	N/A
Yellow-breasted chat <i>Icteria virens</i>	CSC, MSCS	Breeds in riparian habitats having dense understory vegetation, such as willow and blackberry.	Y	N/A
Loggerhead shrike <i>Lanius ludovicianus</i>	CSC	Forages in open grassland habitats throughout the Central Valley of California. Nests in shrubs and trees.	N	Suitable open habitat not present.
Purple martin <i>Progne subis</i>	CSC	Forages in a variety of habitats during migration; frequents old-growth, multi-layered, open forest and woodland with snags in breeding season.	Y	N/A
Pallid bat <i>Antrozous pallidus</i>	CSC, USFS S	Forages over many habitats; roosts in buildings, large oaks or redwoods, rocky outcrops and rocky crevices in mines and caves.	Y	N/A
Ringtail <i>Bassariscus astutus</i>	CP, MSCS	Riparian habitats and in brush stands of most forest and shrub habitats. Nests in rock recesses, hollow trees, logs, snags, abandoned burrows or woodrat nests.	Y	N/A

Table A1-1. Special-Status Wildlife Species Potentially Occurring in the Shasta Lake and Vicinity Portion of the Primary Study Area (contd.)

Common Name Scientific Name	Status ¹ (Fed/State/USFS)	General Habitat Description	Possibly Occurring (Y/N)	Reason for Non- Consideration in Shasta Lake and vicinity Portion of the Primary Study Area
Townsend's western big-eared bat <i>Corynorhinus townsendii</i>	CSC	Roosts in colonies in caves, mines, tunnels, or buildings in mesic habitats. The species forages along habitat edges, gleaning insects from bushes and trees. Habitat must include appropriate roosting, maternity and hibernacula sites free from disturbance by humans.	Y	N/A
Spotted bat <i>Euderma maculatum</i>	CSC	Ponderosa pine region of the western highlands. Prefers cracks/crevices of high cliffs and canyons for roosting.	Y	N/A
Western mastiff bat <i>Eumops perotis</i>	CSC, MSCS* * <i>californicus</i> subspecies only	Many open habitats including conifer and deciduous woodlands, coastal scrub, grassland, and chaparral. Typically roost in crevices in cliff faces and high buildings.	Y	N/A
Western red bat <i>Lasiurus blossevillii</i>	USFS S	Habitat edges or mosaics with broad-leaved trees and/or riparian species for roosting and open areas for foraging.	Y	N/A
Sierra Nevada snowshoe hare <i>Lepus americanus tahoensis</i>	CSC	Boreal zones, typically inhabiting riparian communities with thickets of deciduous trees and shrubs above 4,800 feet. They also inhabit thickets of young conifers and chaparral.	N	Shasta Lake and vicinity portion of the primary study area is below the species' elevational requirements.

Table A1-1. Special-Status Wildlife Species Potentially Occurring in the Shasta Lake and Vicinity Portion of the Primary Study Area (contd.)

Note:

¹Status Definitions:

CE = California Endangered

CP = California Fully Protected

CSC = California Species of Special Concern

CT = California Threatened

FC = Federal Candidate

FD = Federally Delisted

FPD = Proposed for Federal Delisting

FT = Federally Threatened

MSCS = CALFED Multi Species Conservation Strategy Covered Species

USFS M = USFS Survey and Manage Species

USFS S = USFS Sensitive

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Attachment 2 Species Accounts for Special- Status Wildlife in the Shasta Lake and Vicinity Portion of the Primary Study Area

Wildlife Resources Technical Report

Shasta Lake Water Resources Investigation, California

Prepared by:

**United States Department of the Interior
Bureau of Reclamation
Mid-Pacific Region**



American Marten (*Martes americana*). Federal status: None; State status: None; USFS status: Sensitive

Chiefly nocturnal, the American marten is mostly carnivorous, taking primarily small mammals, however it also consumes birds, insects, fruits, and fish. Breeding occurs in the summer with most litters born in March and April. The American marten is an uncommon to common, permanent resident of the North Coast regions and Sierra Nevada, Klamath, and Cascades Mountains (California Department of Fish and Game 2002a). It requires a variety of different-aged stands, particularly old-growth conifers and snags, which provide abundant cavities for denning and nesting. Martens tend to travel along ridgetops, and rarely move across large areas devoid of canopy cover. Small clearings, meadows, and riparian areas provide foraging habitats, particularly during snow-free periods. The availability of habitat with limited human use is also an important requirement for martens.

American Peregrine Falcon (*Falco peregrinus anatum*). Federal status: Delisted; State status: Endangered, Fully Protected; USFS status: Sensitive; CALFED Multi Species Conservation Strategy Covered Species

The peregrine falcon is known as one of the fastest flying birds of prey, feeding almost entirely on birds that it kills while in flight. These falcons nest primarily on high cliffs; however, they will also use human-made structures and occasionally tree cavities or the old nests of other raptors. In California, peregrine falcons are known to nest along the coast north of Santa Barbara, the northern Coast and Cascade ranges, and the Sierra Nevada. During winter and periods of migration, they can be found throughout most of the state. However, they are most likely to be encountered near wetland or aquatic habitats.

The American peregrine falcon was listed as endangered by the USFWS in 1970 and by the State of California in 1971. Intensive efforts to protect peregrine falcons were initiated by biologists from the Santa Cruz Predatory Bird Research Group in 1975. These efforts led to over 120 pairs of peregrine falcons by 1992 (Thelander and Crabtree 1994). The USFWS removed the American peregrine falcon from the endangered species list in 1999, but the State of California has yet to do so.

An historical nest site was recorded near Shasta Caverns and a “new” nest site is believed to occur along the Sacramento Arm of Shasta Lake.

Bald Eagle (*Haliaeetus leucocephalus*). Federal status: Delisted; State status: Endangered; USFS Status: None; CALFED Multi Species Conservation Strategy Covered Species

The bald eagle first gained federal protection in 1940 when Congress passed the Bald Eagle Protection Act. It was later amended to include golden eagles and renamed the Bald and Golden Eagle Protection Act. It was first listed under the

ESA on February 14, 1978, when it was designated as endangered throughout the lower 48 states except in Michigan, Minnesota, Wisconsin, and Oregon, where it was designated as threatened (43 FR 6233). The bald eagle was reclassified as threatened in all of the lower 48 states on July 12, 1995 (60 FR 36000). The USFWS proposed to remove the species from the List of Endangered and Threatened Wildlife (delist) on July 6 1999 (64 FR 36454). It was delisted on August 8, 2007 (72 FR 37346). The bald eagle continues to be protected under the Bald and Golden Eagle Protection Act.

Bald eagles are large soaring birds, second in size only to the California condor (*Gymnogyps californianus*) in North America. Most of their annual food requirements are derived from or obtained around aquatic habitats. The type of food consumed most often consists of fish, water birds, and small to medium-sized mammals. Because of the dietary association, nesting territories are usually found near water. Perches are used primarily during the day for resting, preening, and hunting, and may include human-made structures such as power poles, although natural perches are used most often. Roosting areas will contain a night communal roosting tree that is tall enough to provide safety from threats from the ground. The number and quality of these roost trees determine the size and importance of the roost. Bald eagle wintering areas and roosts are usually found where human activity is infrequent and/or muted. In California, breeding pairs are found mostly in Butte, Lake, Lassen, Modoc, Plumas, Shasta, Siskiyou, and Trinity counties (California Department of Fish and Game 2002b).

Bald eagles are common at Shasta Lake, occurring at the highest recorded density in the continental United States. Approximately 20 nest sites (many within the project boundary) are currently believed to be active. Management of bald eagles on Shasta Lake is directed by knowledge of territory protection needs (Forest Order – December 2004 and updated annually). Each known territory has a strategy that determines management zones and directs which activities are permitted during different times of the year (Forest Order 2004). Activities within these zones may be restricted to ensure that activities permitted within the Unit will not have a negative effect on bald eagles.

California Yellow Warbler (*Dendroica petechia brewsteri*). Federal status: None; State status: Species of Special Concern; USFS status: None; CALFED Multi Species Conservation Strategy Covered Species

The yellow warbler is a long-distance migrant, usually arriving in California in April and leaving by October. It is usually found in dense riparian deciduous habitats with cottonwoods, willows, alders, and other small trees and shrubs typical of open-canopy riparian woodlands. The species breeds from mid-April to early August, building an open cup nest in a tree or shrub. Foraging patterns typically involve gleaning and hovering for insects and spiders. The yellow warbler is the most extensively yellow of all warblers. However, rusty streaks

occur on the breast. California yellow warblers were detected within the study area during the Neotropical surveys conducted in 2007.

Cooper's Hawk (*Accipiter cooperii*). Federal status: None; State status: Species of Special Concern; USFS status: None

Cooper's hawks prefer landscapes where wooded areas occur in patches and groves, facilitating the ambush hunting tactics employed by this species. The species preys upon medium-sized birds (e.g., jays, doves, and quail) and occasionally takes small mammals and reptiles. Breeding pairs in California prefer nest sites within dense stands of live oak woodland or riparian areas, and prey heavily on young birds during the nesting season. Cooper's hawks are breeding residents throughout most of the wooded areas in California, but populations have declined in recent decades. Suitable habitat for Cooper's hawks is present throughout the wooded portions of the Shasta Lake and vicinity portion of the primary study area, and the species is known to occur regularly in Shasta County.

Foothill Yellow-Legged Frog (*Rana boylei*). Federal Status: None; State Status: Species of Special Concern; USFS Status: Sensitive

The foothill yellow-legged frog is found in or near rocky streams in a variety of habitats, including valley-foothill hardwood, valley-foothill hardwood-conifer, valley-foothill riparian, ponderosa pine, mixed conifer, coastal scrub, mixed chaparral, and wet meadow types. Adults often bask on exposed rock surfaces near streams. When disturbed, they dive into the water and take refuge under submerged rocks or sediments. During periods of inactivity, especially during cold weather, individuals seek cover under rocks in the streams or on shore within a few meters of water. Unlike most other ranid frogs in California, this species is rarely encountered (even on rainy nights) far from permanent water. Tadpoles require water for at least three or four months while completing their aquatic development.

The species occurs in the Coast Ranges from the Oregon border south to the Transverse Mountains, in most of northern California west of the Cascade crest, and along the western flank of the Sierra south to Kern County. Foothill yellow-legged frogs have been recorded in several locations in and adjacent to the Shasta Lake and vicinity portion of the primary study area (California Department of Fish and Game 2003).

Great Blue Heron (*Ardea herodias*). Federal status: None; State status: None; USFS status: None; CALFED Multi Species Conservation Strategy Covered Species

The great blue heron, the largest heron in North America, is fairly common year round in northern California. A wading bird, it typically occurs in shallow estuaries, fresh and saline emergent wetlands, along riverine and rocky marine

shores, and in croplands and pastures where it feeds mostly on fish, frogs, crayfish, small rodents, and insects. Great blue herons usually nests colonially in the tops of secluded large snags or live trees, often near shallow-water feeding areas. Colonies are known to be sensitive to human disturbance. A colony has been reported roosting near Turntable Bay near the Shasta Lake and vicinity project area.

Long-eared Owl (*Asio otus*). Federal status: None; State status: Species of Special Concern; USFS status: None; CALFED Multi Species Conservation Strategy Covered Species

The long-eared owl occurs as a permanent resident or winter visitor throughout much of the northern portion of the state. It requires wooded areas for roosting and breeding and often frequents riparian habitats. At higher elevations, this species can be found in dense conifer stands. The long-eared owl typically forages in open habitats, primarily for small rodents. The cause of this species' decline is unclear, although loss of riparian habitat may play a role. The conifer woodlands in the Shasta Lake and vicinity portion of the primary study area provide suitable roosting habitat for this species.

Merlin (*Falco columbarius*). Federal status: None; State status: Species of Special Concern; USFS status: None

The merlin is a small falcon that preys mostly on birds that it catches while in flight. The species frequents open habitats at low elevations near water and stands of trees. Merlins do not breed in California; however, they occur uncommonly throughout most of the state as a winter migrant.

Northern Goshawk (*Accipiter gentilis*). Federal status: None; State status: Species of Special Concern; USFS status: Sensitive

The northern goshawk is found in dense, mature conifer and deciduous forests, interspersed with openings and riparian habitat. Nests are typically constructed on north-facing slopes near water. They prey mainly on birds and small mammals. In California, northern goshawks breed in the northern Coast Ranges and in the Sierra Nevada, Klamath, Cascade, and Warner Mountains. No northern goshawks are known to occur in the Shasta Lake and vicinity portion of the primary study area; however, suitable habitat is present. Has been seen on Gilman road (upper McCloud Arm). We can cite the BBS route there if needed.

Northern Spotted Owl (*Strix occidentalis caurina*). Federal status: Threatened; State status: None; USFS status: None; CALFED Multi Species Conservation Strategy Covered Species

Northern spotted owls prefer old-growth forest or forests with old growth characteristics. Preferred characteristics include a multi-story, multi-species, moderate to dense canopy dominated by large trees with a high incidence of cavities or broken tops for nesting, an accumulation of woody debris on the

ground, and sufficient open space below the canopy for flight. Spotted owls subsist on a diet of small mammals, birds, amphibians, reptiles and insects.

In California, the range of the northern spotted owl extends from the Coast Ranges to San Francisco Bay. The species has been recorded within 0.5 mile of the study area along the Squaw River Arm (California Department of Fish and Game 2003).

Northwestern Pond Turtle (*Clemmys marmorata marmorata*); Federal status: None; State status: Species of Special Concern; USFS status: Sensitive; CALFED Multi Species Conservation Strategy Covered Species

The northwestern pond turtle occurs in a variety of riverine and wetland habitats. Pond turtles require basking sites, such as partially submerged logs, rocks, mats of floating vegetation, and open mud banks, but turtles slip from basking sites to underwater retreats at the approach of humans or potential predators. In colder areas, the turtles hibernate under water in bottom mud (Zeiner et al. 1990). This species is known to travel large distances upland for nesting and overwintering. Northwestern pond turtles have been recorded in several locations within the Shasta Lake and vicinity portion of the primary study area (California Department of Fish and Game 2003).

Osprey (*Pandion haliaetus*). Federal status: None; State status: Species of Special Concern; USFS status: None; CALFED Multi Species Conservation Strategy Covered Species

The osprey is associated with large, fish-bearing waters, primarily in ponderosa pine through mixed conifer habitats. It requires open, clear waters for foraging, such as rivers, lakes, reservoirs, bays, estuaries, and surf zones. Large trees, snags, and dead-topped trees in open forest habitats near water are used for cover and nesting. Approximately 70 pairs of ospreys are known to nest in the Shasta Unit of the NRA, arriving in March and leaving for their wintering grounds in October (USDA Forest Service 1996). Over 60 known nests occur within the Shasta Lake and vicinity portion of the primary study area.

Pacific Fisher (*Martes pennanti*). Federal status: Candidate; State status: Species of Special Concern; USFS status: Sensitive

A member of the weasel family, fishers have long, thin bodies with mostly brown fur. They prefer heavy stands of mixed species of mature timber. In California, fishers primarily inhabit mixed conifer forests composed of Douglas-fir and associated conifers, although they also are encountered frequently in higher elevation fir and pine forests and mixed evergreen/broad leaf forest. Primarily nocturnal, they prey on a variety of small and medium-sized mammals. Fishers den in cavities near the tops of large trees, in hollow logs, and in crevices in rock outcrops and talus. Trapping, timber harvesting

activities, and human settlement are thought to be responsible for the reduction in the fisher population.

Fishers have been recorded throughout the Shasta Lake region in low-elevation conifer, hardwood conifer, and hardwood habitats. These occurrences likely represent the southern-most occurrences in this portion of the species' range. This region is significant in that it provides a dispersal corridor for populations from the west to move into formerly occupied habitat to the east and southeast.

Pallid Bat (*Antrozous pallidus*). Federal status: None; State status: Species of Special Concern; USFS status: Sensitive

This medium-sized bat occurs throughout much of California. It prefers foraging on terrestrial arthropods in dry, open grasslands near water and rocky outcroppings or old structures. It may also occur in oak woodlands and at the edge of redwood forests along the coast. Roosting typically occurs in groups. Day and night roosts often occur in caves and mine tunnels. However, buildings and trees may also be used for day roosts and more open sites, such as buildings, porches, garages, and highway bridges, may be used for night roosts. Pallid bats are sensitive to human disturbances at roost sites. Within the Shasta Lake and vicinity portion of the primary study area, caves and large trees with cavities provide suitable roosting habitat.

Purple Martin (*Progne subis*). Federal status: None; State status: Species of Special Concern; USFS status: None

The purple martin is an uncommon summer resident of old-growth, multi-layered open forests in California. It primarily uses old woodpecker cavities for nesting, but will occasionally nest in boxes or under bridges. Purple martins forage for insects over a variety of habitats, including riparian areas and forests. The species has declined in numbers in recent decades due to competition with non-native species for nest cavities, the loss of riparian habitat, and the removal of snags. One of the few known nesting colonies of this species in interior California occurs within the Shasta Lake and vicinity portion of the study area along the Pit River Arm of Shasta Lake in snags that are submerged at full pool. The only other known purple martin breeding sites in interior northern California include scattered historical sites in Siskiyou and eastern Shasta Counties (Williams 1998). The only recent known sites are from Lava Beds National Monument, and Lake Britton. The Shasta Lake population represents between 14 and 51 percent of the interior northern California population (Lindstrand in review). Recent historical records also occur from locations in the McCloud Arm (Williams 1998).

Ringtail (*Bassiriscus astutus*). Federal Status: None; State Status: Fully Protected Species; USFS status: None; CALFED Multi Species Conservation Strategy Covered Species

The ringtail occurs in various riparian habitats in and brush stands of most forest and shrub habitats. Nocturnal, and primarily carnivorous, ringtails mainly eat small mammals but also feed on birds, reptiles, insects, and fruit. They forage on the ground, among rocks, and in trees; usually near water. Hollow trees and logs, cavities in rocky areas, and other recesses are used for cover. The ringtail is widely distributed in California. Ringtails were recorded in numerous locations throughout the study area during the 2003-2005 carnivore surveys.

Shasta Chaparral (*Trilobopsis roperi*). Federal status: None; State status: Threatened; USFS status: Sensitive and Survey and Manage

The Shasta chaparral is a terrestrial snail endemic to Shasta County, California. It may be found within approximately 330 feet of lightly to deeply shaded limestone rockslides, draws, or caves with a cover of shrubs or oak (Bureau of Land Management 1999). The species is known to occur in and near the Shasta Lake and vicinity portion of the primary study area.

Shasta Hesperian (*Vespericola shasta*). Federal status: None; State status: Threatened; USFS status: Sensitive and Survey and Manage

The Shasta hesperian is a terrestrial snail that is endemic to the Klamath Province, primarily in the vicinity of Shasta Lake, up to 3,000 feet in elevation (Bureau of Land Management 1999). It is generally found in moist bottom lands, such as riparian zones, springs, seeps, marshes, and in the mouths of caves. The Shasta hesperian has been recorded in several locations in and adjacent to the study area (California Department of Fish and Game 2003).

Shasta Salamander (*Hydromantes shastae*). Federal status: None; State status: Threatened; USFS status: Sensitive and Survey and Manage; CALFED Multi Species Conservation Strategy Covered Species

The Shasta salamander is endemic to a small region of the southeastern Klamath Mountains generally located north and northeast of Redding, Shasta County, California. This species has long been known to occur in habitats associated with limestone formations (Stebbins 2003) and was recently found to occur in various non-limestone habitats (Lindstrand 2000; Nauman and Olson 2004; Olson 2005). Shasta salamanders have been found at elevations ranging from approximately 800 feet to 3,800 feet (Lindstrand in press).

Shasta salamander habitat is defined as large or small limestone outcrops and the immediately adjacent areas. This habitat consists of mainly steep and rocky limestone bluffs, cliffs, and outcrops, and is characterized by abundant limestone rock with fissures, cracks, and occasional small caves. Vegetative cover varies, and includes barren rock with sparse herbaceous growth, open to dense shrub habitat, and open to dense woodland habitat.

Non-limestone habitat has yet to be fully understood and defined. Non-limestone Shasta salamander habitat is known to occur in the Shasta Lake area

and elsewhere in the southeastern Klamath mountain region, and includes a variety of montane hardwood-conifer, montane hardwood, and ponderosa pine habitat (Lindstrand 2000; Nauman and Olson 2004). Typically, these habitats are characterized by sparse to dense conifer and/or hardwood canopy closure, open to moderate shrub growth, a sparse to dense herbaceous layer, and include some type of ground cover components such as down woody debris, scattered rock, and leaf/litter layer.

Shasta Sideband (*Monadenia troglodytes troglodytes*). Federal status: None; State status: None; USFS status: Sensitive and Survey and Manage; CALFED Multi Species Conservation Strategy Covered Species

The Shasta sideband is a terrestrial snail known only from Shasta County, California along the McCloud River Arm and near the Pit River Arm of Shasta Lake. It occurs in limestone areas, including caves, talus slopes, and other rocky areas that are open, brush-covered, or associated with pine-oak woodlands. Refuge sites do not need to have vegetation cover (Bureau of Land Management 1999). The Shasta sideband has been recorded in several locations in and adjacent to the Shasta Lake and vicinity portion of the primary study area (California Department of Fish and Game 2003).

Sharp-Shinned Hawk (*Accipiter striatus*); Federal status: None; State status: Species of Special Concern; USFS status: None

The sharp-shinned hawk is a fairly common migrant and winter resident throughout California, but is less common as a breeder. It is commonly found in dense woodland or riparian habitats bordering open areas. Sharp-shinned hawks typically pursue small birds in semi-open country, at the edges of open woodlands, in clearings, and along hedgerows, shorelines, or passerine migration corridors. Nest sites are usually near a water source and are located in dense stands of even-aged trees on north-facing slopes. Suitable habitat for sharp-shinned hawks is present throughout the wooded portions of the Shasta Lake and vicinity portion of the primary study area, and the species is known to occur regularly in Shasta County. Observed nesting on Greens Creek trail in 2007 (Squaw Creek arm).

Spotted Bat (*Euderma maculatum*). Federal status: None; State status: Species of Special Concern; USFS status: None

In California, the spotted bat has a patchy distribution throughout the western portion of the state due to its dependence on rock-faced cliffs for roosting habitat. Roosts are found in small cracks in cliffs and rocky outcrops. The spotted bat forages over a variety of habitats, primarily for large moths. Suitable roosting and foraging habitat for spotted bats is present in the study area and the species has been recorded on Squaw Creek within approximately 6 miles of the Shasta Lake and vicinity portion of the primary study area (California Department of Fish and Game 2003).

Townsend's big-eared bat (*Corynorhinus townsendii*). Federal status: None;
State status: Species of Special Concern; USFS status: Sensitive

The Townsend's big-eared bat has been reported in a wide variety of habitat types including coniferous forests, mixed mesophytic forests, deserts, native prairies, riparian communities, active agricultural areas, and coastal habitat types. Distribution is strongly correlated with the availability of caves and cave-like roosting habitat, including abandoned mines. It has also been reported to utilize buildings, bridges, rock crevices, and hollow trees as roost sites. Summer maternity colonies range in size from a few individuals to several hundred individuals. Winter hibernating colonies are composed of mixed-sexed groups, which can range in size from a single individual to colonies of several hundred animals (Piaggio and Sherwin 2005). The Townsend's big-eared bat primarily consumes moths that it captures while foraging in edge habitats along streams, adjacent to and within a variety of wooded habitats. These bats often travel large distances while foraging. Suitable roosting and foraging habitat for this species is present in the Shasta Lake and vicinity portion of the primary study area, and the species was been recorded in the vicinity in 1964 (California Department of Fish and Game 2003). In addition, NSR biologists observed the species during a survey of a limestone cave on the Big Backbone Creek Arm in June 2008.

Tailed Frog (*Ascaphus truei*). Federal status: Species of Concern; State status: Species of Special Concern; USFS status: None

The tailed frog is found in perennial streams of low temperature in steep-walled valleys with conifer dominated habitat. They are most often found in mature or old growth forests. Their elevational range extends from near sea level to 6500 feet. Adults feed on both aquatic and terrestrial larval and adult insects, other arthropods, and snails. Tadpoles feed primarily on diatoms. Suitable habitat for the tailed frog is present in the study area, and known occurrences have been recorded in McCloud and Upper Sacramento Arm tributaries outside the Shasta Lake and vicinity portion of the primary study area (California Department of Fish and Game 2003).

Vaux's Swift (*Chaetura vauxi*). Federal status: None; State status: Species of Special Concern; USFS status: None

The Vaux's swift is a summer resident of northern California that forages over most terrains and habitats, commonly at lower levels in forest openings, above burns, and above rivers. The species roosts in large hollow trees and snags, most often in redwood and Douglas-fir but it may also use other conifers and, occasionally, chimneys and buildings. Suitable nesting and foraging habitat for this species is present in the Shasta Lake and vicinity portion of the primary study area. Observed at upper McCloud arm in 2007.

Western Mastiff Bat (*Eumops perotis*). Federal status: None; State status: Species of Special Concern; USFS status: None; CALFED Multi Species Conservation Strategy Covered Species (*californicus* subspecies only)

The western mastiff bat, California's largest bat species, is an uncommon resident throughout its range in California. It ranges from Central Mexico across the southwestern United States. In addition, recent surveys have extended the previously known range to the north in both Arizona and California (to within a few miles of the Oregon border) (Pierson and Siders 2005). Primarily a cliff dwelling species, roosts are found under exfoliating rock slabs and in similar crevices in large boulders and buildings (Pierson and Siders 2005). Roosts are generally high above the ground, usually allowing a clear vertical drop of at least 10 feet below the entrance for flight. Potentially suitable habitat for the western mastiff bat occurs in the Shasta Lake and vicinity portion of the primary study area.

Western Red Bat (*Lasiurus blossevillii*). Federal status: None; State status: None; USFS status: Sensitive

The western red bat is a migratory species occurring in California from Shasta County to the Mexican border, west of the Sierra Nevada/Cascade crest and deserts (California Department of Fish and Game 2002). The species prefers sites with a mosaic of habitats that includes trees for roosting and open areas for foraging. Western red bats typically roost solitarily in dense tree foliage, particularly in willows, cottonwoods, and sycamores. There may be an association with riparian habitat. They forage over a wide assortment of habitat types for a variety of insects, but primarily feed on moths. Habitat within the Shasta Lake and vicinity portion of the primary study area is only marginally suitable for this species.

Willow Flycatcher (*Empidonax traillii*). Federal status: None; State status: Endangered; USFS status: Sensitive; CALFED Multi Species Conservation Strategy Covered Species

The willow flycatcher has been eliminated as a breeding bird from most of its former range in California, primarily due to the loss and degradation of riparian habitat. In the Shasta Lake and vicinity portion of the primary study area, the species is a rare to locally uncommon spring and fall migrant, occurring in wet meadows and riparian habitats. Willow flycatchers nest in dense riparian thickets and forage on insects, berries, and seeds.

Wintu Sideband (*Monadenia troglodytes wintu*). Federal status: None; State status: None; USFS status: Sensitive and Survey and Manage

The Wintu sideband is a terrestrial snail only known from Shasta County, California along the Pit River Arm of Shasta Lake over to Squaw Creek and at Mountain Gate. It occurs in limestone areas, including caves, talus slopes, and

other rocky areas that are open, brush-covered, or associated with pine-oak woodlands. Refuge sites do not need to have vegetative cover (Bureau of Land Management 1999). Suitable habitat for the Wintu sideband is present in the Shasta Lake and vicinity portion of the primary study area.

Yellow-breasted Chat (*Ictera virens*); Federal listing status: None; State listing status; Species of Special Concern; USFS status: None; CALFED Multi Species Conservation Strategy Covered Species

The yellow-breasted chat is a neotropical migrant that occurs in riparian or marsh habitats throughout California. They are found in dense, brushy thickets near water and in the thick understory of riparian woodlands. Forage patterns usually involve gleaning insects, spiders, and berries from the foliage of shrubs and low trees. Nests are often low to the ground in dense shrubs along streams. They occur as summer breeding residents in the Sacramento River Valley and its tributaries. Yellow-breasted chats were detected within the Shasta Lake and vicinity portion of the primary study area during the Neotropical surveys conducted in 2007.

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Draft

Attachment 3 Breeding Bird Surveys – 2007

Wildlife Resources Technical Report

Shasta Lake Water Resources Investigation, California

Prepared by:

**United States Department of the Interior
Bureau of Reclamation
Mid-Pacific Region**



Table A3-1. Breeding Birds in the Shasta Lake and Vicinity Portion of the Primary Study Area

Common Name	Scientific Name
Acorn Woodpecker	<i>Melanerpes formicivorus</i>
American Dipper	<i>Cinclus mexicanus</i>
American Robin	<i>Turdus migratorius</i>
Annas Hummingbird	<i>Calypte anna</i>
Ash-throat Flycatcher	<i>Myiarchus cinerascens</i>
Bald Eagle	<i>Haliaeetus leucocephalus</i>
Barn Swallow	<i>Hirundo rustica</i>
Bewicks Wren	<i>Thryothorus bewickii</i>
Blue-gray Gnatcatcher	<i>Poliottila caerulea</i>
Brown-headed Cowbird	<i>Molthrus ater</i>
Black-headed Grosbeak	<i>Pheucticus malanocephalus</i>
Black Phoebe	<i>Sayornis nigricans</i>
Brewers Blackbird	<i>Euphagus cyanocephalus</i>
Band-tailed Pigeon	<i>Columba fasciata</i>
Black-throated Gray Warbler	<i>Dendroica nigrescens</i>
Bullocks Oriole	<i>Icterus bullockii</i>
Bushtit	<i>Psaltriparus minimus</i>
Canada Goose	<i>Branta canadensis</i>
Canyon Wren	<i>Catherpes mexicanus</i>
California Quail	<i>Callipepla californica</i>
California Thrasher	<i>Toxostoma redivivum</i>
Cassin's vireo	<i>Vireo cassinii</i>
Chestnut-backed Chickadee	<i>Parus rufescens</i>
Cliff Swallow	<i>Hirundo pyrrhonota</i>
Common Merganser	<i>Mergus merganser</i>
Common Raven	<i>Corvus corax</i>
Downey Woodpecker	<i>Picoides pubescens</i>
Great Blue Heron	<i>Ardea herodias</i>
House Finch	<i>Carpodacus mexicanus</i>
House Wren	<i>Troglodytes aedon</i>

Table A3-1. Breeding Birds in the Shasta Lake and Vicinity Portion of the Primary Study Area (contd.)

Common Name	Scientific Name
Huttons Vireo	<i>Vireo huttoni</i>
Lark Sparrow	<i>Chondestes grammacus</i>
Lazuli Bunting	<i>Passerina amoena</i>
Lesser Goldfinch	<i>Carduelis psaltria</i>
Mallard	<i>Anas platyrhynchos</i>
Morning Dove	<i>Zenaida macroura</i>
Mountain Quail	<i>Oreortyx pictus</i>
Nashville Warbler	<i>Vermivora ruficapilla</i>
Northern Flicker	<i>Colaptes auratus</i>
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>
Nuttall's Woodpecker	<i>Picoides nuttallii</i>
Oak Titmouse	<i>Baeolophus inornatus</i>
Orange-crowned Warbler	<i>Vermivora celata</i>
Osprey	<i>Pandion haliaetus</i>
Oregon Junco	<i>Junco hyemalis</i>
Pacific-slope Flycatcher	<i>Empidonax difficilis</i>
Purple Finch	<i>Carpodacus purpureus</i>
Purple Martin	<i>Progne subis</i>
Red-breasted Nuthatch	<i>Sitta canadensis</i>
Song Sparrow	<i>Melospiza melodia</i>
Spotted Sandpiper	<i>Actitis macularia</i>
Spotted Towhee	<i>Pipilo maculatus</i>
Steller's Jay	<i>Cyanocitta stelleri</i>
Tree Swallow	<i>Tachycineta bicolor</i>
Turkey Vulture	<i>Cathartes aura</i>
Violet-green Swallow	<i>Tachycineta thalassina</i>
Warbling Vireo	<i>Vireo gilvus</i>
White-breasted Nuthatch	<i>Sitta carolinensis</i>
Western Grebe	<i>Aechmophorus occidentalis</i>

Table A3-1. Breeding Birds in the Shasta Lake and Vicinity Portion of the Primary Study Area (contd.)

Common Name	Scientific Name
Western Kingbird	<i>Tyrannus verticalis</i>
Western Scrub-Jay	<i>Aphelocoma californica</i>
Western Tanager	<i>Piranga ludoviciana</i>
Western Wood-Pewee	<i>Contopus sordidulus</i>
Wrentit	<i>Chamaea fasciata</i>
Yellow-breasted Chat	<i>Icteria virens</i>
Yellow Warbler	<i>Dendroica petechia</i>
Yellow-rumped Warbler	<i>Dendroica coronata</i>

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Attachment 4 Species Accounts for Special- Status Wildlife Species in the Primary Study Area Downstream from Shasta Dam

Wildlife Resources Technical Report

Shasta Lake Water Resources Investigation, California

Prepared by:

**United States Department of the Interior
Bureau of Reclamation
Mid-Pacific Region**



Black-Crowned Night Heron (*Nycticorax nycticorax*). Federal Status: None; State Status: None; BLM Status: Sensitive; USFS Status: None; MSCS Goal: Maintain

Black-crowned night herons occupy diverse aquatic habitats including fresh and saltwater marshes, swamps, lakes, and wooded streams. The black-crowned night heron is a common year-long resident throughout most of the state. This heron species nests in large numbers in the Central Valley, Salton Sea, and the northeastern part of the state. Black-crowned night heron nests are made of sticks, debris, or marsh plants and are built either in trees or on the ground. This species roosts during the day in dense trees or dense emergent wetland plants. Black-crowned night herons forage by standing and waiting for prey like frogs and fish to pass by and then catches them with their bills. Black-crowned night herons are likely to breed along the Sacramento River corridor, but have not been reported to the CNDDDB in the study area.

Great Blue Heron (*Ardea herodias*). Federal Status: None; State Status: None; USFS Status: None; MSCS Goal: Maintain

Great blue herons are typically found in shallow estuaries and fresh and saltwater emergent wetlands. They are also known to use riverine and rocky marines shores, croplands, and pastures. Great blue herons are residents year-round throughout most of the state. Knowledge of distribution of great blue heron rookeries is incomplete, but many are known to be scattered throughout the Central Valley. Few rookeries have been found in southern California. Great blue herons tend to nest along rivers, large streams, and lakes such as the Sacramento River, American River, Putah Creek, and Yolo Bypass. Great blue heron nests are similar to and are often in mixed colonies with great egrets. Herons usually nest in colonies in the tops of secluded large snags or live trees, usually among the tallest available. Great blue herons forage by using a stand and wait method in shallow water and grasps prey with their bill. This species feeds mainly on fishes, and will also eat small rodents, amphibians, snakes, and insects. Great blue herons are likely to breed along the Sacramento River corridor, but have not been reported to the CNDDDB in the study area.

Great Egret (*Casmerodius albus*). Federal Status: None; State Status: None; USFS Status: None; MSCS Goal: Maintain

Great egrets forage in aquatic habitats such as saline emergent wetlands; along the margins of estuaries, lakes, and slow-moving streams; on mudflats and saltponds; and on irrigated croplands and pastures. Great egrets are residents year-round throughout most of their California range. This species winters throughout the Central Valley, Suisun Marsh, and San Francisco Bay Area. Current distribution of great egret rookeries includes Humboldt, Bolinas, and San Francisco Bays and the Central Valley. Historical nesting sites on the lower Colorado River and the southern end of the Salton Sea are now abandoned. Great egrets nest mostly along large streams, lakes, and rivers, such as the

Sacramento River, American River, Putah Creek, Yolo Bypass, and Cosumnes River. Great egrets require groves of trees that are suitable for nesting and roosting, are relatively isolated from human activities, and are found near aquatic foraging areas. Nests are constructed from sticks and stems of marsh plants and are built in large trees. Great egrets forage by using a stand and wait method and striking at prey with their bill. This species feeds mainly on fishes, amphibians, snakes, snails, crustaceans, insects, and small mammals. Great egrets are likely to breed along the Sacramento River corridor, but have not been reported to the CNDDDB in the study area.

Least Bittern (*Ixobrychus exilis*). Federal Status: None; State Status: Species of Special Concern; USFS Status: None; MSCS Goal: Maintain

Least bitterns occupy aquatic habitats including freshwater and brackish marshes with tall, dense emergent vegetation and clumps of woody plants over deep water. Annual fluctuations in water depth and residual marsh vegetation may be important in determining habitat use by this species. Least bitterns build nests on platforms of live and dead stalks usually 15–75 cm above water in emergent vegetation, especially dense cattails or bulrush. They occasionally nest in loose colonies. Least bitterns prey upon small fish, such as catfish and minnows, but will also eat other aquatic wildlife. They forage from emergent vegetation by stalking prey near the surface of the water. Least bitterns are known to breed at the Sacramento, Colusa, and Sutter NWRs, Gray Lodge Wildlife Area, and in the Yolo Bypass. Additional breeding records occur in the Delta near Freeport, Plam Tract, and Suisun Marsh. In the San Joaquin Valley breeding has been documented at Mendocata, South Wilbur Flood Area, Kings County Waukena, Tulare County, and Kern NWR (Shuford and Gardali 2008).

Loggerhead Shrike (*Lanius ludovicianus*); Federal Status: None; State Status: Species of Special Concern; USFS Status: None; MSCS Goal: None

The loggerhead shrike is a resident and winter visitor in appropriate habitat of lowlands and foothills throughout California. It is much more common in the summer months in California, when some out-of-state northern birds come south to breed. Breeding populations are largest in portions of the Central Valley, the Coast Range, and the southeastern deserts. Wintering populations are largest throughout the San Joaquin Valley, the south-central and south coasts, and the southeastern deserts. This species is commonly found in shrublands or open woodlands with a fair amount of grass cover and areas of bare ground. They require tall shrubs or trees for hunting perches and fences or thorny shrubs or trees for impaling prey. The loggerhead shrike preys primarily on large insects and also takes small vertebrates, especially lizards and some birds. It searches for prey from a perch at least 0.6 m above ground. It usually flies directly to prey on ground or in a shrub, sometimes hovering, then frequently skewers prey on thorns, sharp twigs, barbed wire, or forces it into a crotch to feed on or to cache for feeding later. Nests are made of sticks, twigs,

and grasses and are placed in dense foliage in trees or shrubs about 1.5–3 m above ground. Shrikes will nest in habitat similar to their foraging habitat. Suitable habitat for loggerhead shrikes is present throughout wetland and marsh habitats of the study area, and the species is known to occur regularly along the Sacramento River.

Northern Harrier (*Circus cyaneus*); Federal Status: None; State Status: Species of Special Concern; USFS Status: None; MSCS Goal: Maintain

The northern harrier is a widespread winter resident and migrant in suitable habitat. Currently there are two main breeding populations, one in the Klamath Basin and the other in the Sacramento–San Joaquin River Delta. The breeding range of the northern harrier includes most of the Central Valley, Sacramento–San Joaquin River Delta, Suisun Marsh, and portions of the San Francisco Bay, but is less common as a breeder. It is commonly found in flat, or hummocky, open areas of tall, dense grasses, moist or dry shrubs, and edges for nesting cover and feeding. Northern harriers typically feed on voles and other small mammals, and also will eat birds, frogs, small reptiles, crustaceans, and insects. This species forages in meadows, grasslands, open rangelands, and emergent wetlands. It makes low, quartering flights 1–9 m above open ground and dives from flight. Northern harriers use tall grasses and forbs in wetlands and field borders for cover. Nest sites are usually on the ground in shrubby vegetation, usually at the marsh edge. Suitable habitat for northern harriers is present throughout wetland and marsh habitats of the study area, and the species is known to occur regularly in along the Sacramento River.

Snowy Egret (*Egretta thula*). Federal Status: None; State Status: None; USFS Status: None; MSCS Goal: Maintain

Snowy egrets forage in aquatic habitats such as fresh and saltwater marshes, marshy ponds, flooded agricultural fields (e.g., rice), irrigation ditches, and tidal flats. Rookeries are typically found in low-growing marsh vegetation or in trees near these aquatic habitats. The snowy egret is a common year-long resident in the Imperial Valley, the Colorado River Valley, and the Central Valley. In Northern California in coastal lowlands, it is common from spring to late fall. Snowy egret nests are often built low in trees near their preferred foraging habitat and are made of sticks. Snowy egrets forage in shallow water or along shores of wetlands or aquatic habitats. It will often dash through shallow water after prey, but also stands and waits for prey. This species prefers to feed on small fish, crustaceans, and large insects. Snowy egrets are likely to breed along the Sacramento River corridor, but have not been reported to the CNDDB in the study area.

Tricolored Blackbird (*Agelaius tricolor*); Federal Status: None; State Status: Species of Special Concern; USFS Status: None; MSCS Goal: Maintain

The tricolored blackbird is a year-long resident throughout most of California, locally common throughout the Central Valley and in coastal districts from Sonoma County south. However, this species makes extensive migrations and movements, both within the breeding season and in winter, within its restricted range. It is a summer resident in northeastern California, occurring regularly at Tule Lake. Wintering tricolored blackbirds congregate in huge, mixed-blackbird species flocks to forage in grasslands and agricultural fields with low-growing vegetation and at dairies and feedlots. The tricolored blackbird preys primarily on insects and spiders during the summer and eats seeds and cultivated grains in the winter. Tricolored blackbirds form the largest breeding colonies of any North American landbird. For breeding-colony sites, tricolored blackbirds require open accessible water, a protected nesting substrate that is usually flooded or has thorny or spiny vegetation, and a foraging area that provides adequate insect prey within a few kilometers of the nesting colony. Types of vegetation in the colony area include cattails, tules, willow, blackberry, wild rose, and tall herbs. Breeding colonies will return to the same area year after year if the site continues to provide adequate nesting sites, water, and suitable foraging habitat. Suitable habitat for tricolored blackbirds is present throughout wetland and marsh habitats of the study area, and the species is known to occur regularly in the Central Valley.

White-tailed Kite (*Elanus leucurus*); Federal Status: None; State Status: Fully Protected; USFS Status: None; MSCS Goal: Maintain

The white-tailed kite is a common to uncommon year-long resident in coastal and valley lowlands. It is rarely found away from agricultural areas. Currently local breeding populations appear to still be relatively healthy along the north and east San Francisco Bay and in the Sacramento–San Joaquin River Delta. It is commonly found in open lowland grassland, riparian woodland, marshes, and scrub areas with variable tree growth, especially groves of dense, broad-leaved deciduous trees for nesting and roosting. Communal night roosts are common in winter. White-tailed kites typically feed on voles and other small, diurnal mammals. This species will also eat birds, small amphibians and reptiles, and insects. It is highly dependent on voles with highly cyclical populations. This species forages in undisturbed, open grasslands, rangelands, agricultural fields, and emergent wetlands. It soars, glides, and hovers less than 30 m above ground in search of prey. White-tailed kites use trees with dense canopies for cover. Nests are made of loosely piled sticks and twigs and are placed near top of dense oak, willow, or other tree stands near open foraging area. Suitable habitat for white-tailed kites is present throughout wetland and marsh habitats of the study area, and the species is known to occur regularly in the Central Valley.

Draft

Attachment 5 State and Federal Lists of Special-Status Wildlife Species in the Vicinity of the Primary Study Area

Wildlife Resources Technical Report

Shasta Lake Water Resources Investigation, California

Prepared by:

**United States Department of the Interior
Bureau of Reclamation
Mid-Pacific Region**



Natural Diversity Database
 California Department of Fish and Game
 CNDDDB Wide Tabular Report
 Shasta Dam, Redding, Enterprise, Cottonwood, Ball's Ferry, Bend and Red Bluff East Quads

Name (Scientific/Common)	CNDDDB Ranks	Other Lists	Listing Status	Total EO's	Element Occ Ranks						Population Status		Presence		
					A	B	C	D	X	U	Historic >20 yr	Recent <=20 yr	Pres. Extirp.	Poss Extirp.	Extirp.
<i>Agelaius tricolor</i> tricolored blackbird	G2G3 S2	CDFG: SC	Fed: None Cal: None	421 S:4	2	1	0	0	0	1	0	4	4	0	0
<i>Agrostis hendersonii</i> Henderson's bent grass	G1Q S1.1	CNPS: 3.2	Fed: None Cal: None	16 S:4	2	1	0	0	0	1	0	4	4	0	0
<i>Andrena blennospermatis</i> A vernal pool andrenid bee	G2 S2	CDFG:	Fed: None Cal: None	15 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Anthicus antiochensis</i> Antioch Dunes anthicid beetle	G1 S1	CDFG:	Fed: None Cal: None	6 S:1	0	0	0	0	0	1	0	1	1	0	0
<i>Anthicus sacramento</i> Sacramento anthicid beetle	G1 S1	CDFG:	Fed: None Cal: None	13 S:1	0	0	0	0	0	1	0	1	1	0	0
<i>Athene cunicularia</i> burrowing owl	G4 S2	CDFG: SC	Fed: None Cal: None	858 S:1	0	0	0	1	0	0	0	1	1	0	0
<i>Branchinecta lynchi</i> vernal pool fairy shrimp	G3 S2S3	CDFG:	Fed: Threatened Cal: None	400 S:5	0	0	1	0	0	4	0	5	5	0	0
<i>Buteo swainsoni</i> Swainson's hawk	G5 S2	CDFG:	Fed: None Cal: Threatened	1638 S:1	0	1	0	0	0	0	0	1	1	0	0
<i>Carex scoparia</i> pointed broom sedge	G5 S2S3	CNPS: 2.2	Fed: None Cal: None	1	0	0	0	0	0	1	1	0	1	0	0
<i>Carex vulpinoidea</i> fox sedge	G5 S2.2	CNPS: 2.2	Fed: None Cal: None	13 S:3	0	0	0	0	0	3	1	2	3	0	0
<i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	G5T2 S1	CDFG:	Fed: Candidate Cal: Endangered	110 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Cryptantha crinita</i> silky cryptantha	G1 S1.1	CNPS: 1B.2	Fed: None Cal: None	33 S:23	3	7	2	1	0	10	8	15	23	0	0
<i>Dendroica petechia brewsteri</i> yellow warbler	G5T3? S2	CDFG: SC	Fed: None Cal: None	47 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	G3T2 S2	CDFG:	Fed: Threatened Cal: None	194 S:10	1	3	2	0	0	4	2	8	10	0	0
<i>Downingia pusilla</i> dwarf downingia	G3 S3.1	CNPS: 2.2	Fed: None Cal: None	114 S:2	0	0	2	0	0	0	0	2	2	0	0

A5-1 Draft - June 2013

Natural Diversity Database
 California Department of Fish and Game
 CNDDDB Wide Tabular Report
 Shasta Dam, Redding, Enterprise, Cottonwood, Ball's Ferry, Bend and Red Bluff East Quads

Name (Scientific/Common)	CNDDDB Ranks	Other Lists	Listing Status	Total EO's	Element Occ Ranks						Population Status		Presence		
					A	B	C	D	X	U	Historic >20 yr	Recent <=20 yr	Pres. Extirp.	Poss Extirp.	Extirp.
<i>Emys (=Clemmys) marmorata marmorata</i> northwestern pond turtle	G3G4T3 S3	CDFG: SC	Fed: None Cal: None	252 S:2	0	1	0	0	0	1	1	1	2	0	0
<i>Eumops perotis californicus</i> western mastiff bat	G5T4 S3?	CDFG: SC	Fed: None Cal: None	185 S:1	0	0	0	0	0	1	0	1	1	0	0
<i>Fluminicola seminalis</i> Nugget Pebblesnail	G2 S1S2	CDFG:	Fed: None Cal: None	8 S:1	0	0	0	0	0	1	0	1	1	0	0
<i>Gratiola heterosepala</i> Boggs Lake hedge-hyssop	G3 S3.1	CNPS: 1B.2	Fed: None Cal: Endangered	87 S:2	0	1	0	0	0	1	0	2	2	0	0
<i>Great Valley Cottonwood Riparian Forest</i>	G2 S2.1		Fed: None Cal: None	56 S:6	0	3	3	0	0	0	6	0	6	0	0
<i>Great Valley Mixed Riparian Forest</i>	G2 S2.2		Fed: None Cal: None	68 S:13	4	8	0	0	0	1	13	0	13	0	0
<i>Great Valley Valley Oak Riparian Forest</i>	G1 S1.1		Fed: None Cal: None	33 S:8	4	0	2	2	0	0	6	2	8	0	0
<i>Great Valley Willow Scrub</i>	G3 S3.2		Fed: None Cal: None	18 S:2	0	0	0	1	0	1	2	0	2	0	0
<i>Haliaeetus leucocephalus</i> bald eagle	G5 S2	CDFG:	Fed: Threatened Cal: Endangered	233 S:6	0	0	0	0	0	6	0	6	6	0	0
<i>Icteria virens</i> yellow-breasted chat	G5 S3	CDFG: SC	Fed: None Cal: None	83 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Juncus leiospermus var. ahartii</i> Ahart's dwarf rush	G2T1 S1.2	CNPS: 1B.2	Fed: None Cal: None	10 S:1	0	1	0	0	0	0	0	1	1	0	0
<i>Juncus leiospermus var. leiospermus</i> Red Bluff dwarf rush	G2T2 S2.2	CNPS: 1B.1	Fed: None Cal: None	41 S:17	1	9	4	0	2	1	1	16	15	2	0
<i>Lanx patelloides</i> Kneecap Lanx	G1 S1	CDFG:	Fed: None Cal: None	26 S:2	0	0	0	0	0	2	0	2	2	0	0
<i>Legenere limosa</i> legenere	G2 S2.2	CNPS: 1B.1	Fed: None Cal: None	61 S:3	0	3	0	0	0	0	0	3	3	0	0
<i>Lepidurus packardi</i> vernal pool tadpole shrimp	G3 S2S3	CDFG:	Fed: Endangered Cal: None	226 S:18	1	7	0	0	0	10	1	17	18	0	0

Natural Diversity Database
 California Department of Fish and Game
 CNDDDB Wide Tabular Report
 Shasta Dam, Redding, Enterprise, Cottonwood, Ball's Ferry, Bend and Red Bluff East Quads

Name (Scientific/Common)	CNDDDB Ranks	Other Lists	Listing Status	Total EO's	Element Occ Ranks						Population Status		Presence		
					A	B	C	D	X	U	Historic >20 yr	Recent <=20 yr	Pres. Extirp.	Poss Extirp.	Extirp.
<i>Linderiella occidentalis</i> California linderiella	G3 S2S3	CDFG:	Fed: None Cal: None	258 S:6	0	3	0	0	0	3	1	5	6	0	0
<i>Martes pennanti (pacifica) DPS</i> Pacific fisher	G5 S2S3	CDFG: SC	Fed: Candidate Cal: None	495 S:2	0	2	0	0	0	0	0	2	2	0	0
<i>Oncorhynchus tshawytscha spring-run</i> spring-run chinook salmon	G5T1Q S1	CDFG:	Fed: Threatened Cal: Threatened	16 S:2	0	0	0	0	0	2	0	2	2	0	0
<i>Oncorhynchus tshawytscha winter run</i> chinook salmon winter run	G5T1Q S1	CDFG:	Fed: Endangered Cal: Endangered	1	0	0	0	0	0	1	0	1	1	0	0
<i>Orcuttia tenuis slender</i> orcutt grass	G3 S3.1	CNPS: 1B.1	Fed: Threatened Cal: Endangered	74 S:16	1	6	2	2	1	4	5	11	15	1	0
<i>Pandion haliaetus</i> osprey	G5 S3	CDFG: SC	Fed: None Cal: None	411 S:10	1	0	0	0	0	9	0	10	10	0	0
<i>Paronychia ahartii</i> Ahart's paronychia	G2 S2.1	CNPS: 1B.1	Fed: None Cal: None	56 S:14	4	5	0	0	0	5	2	12	14	0	0
<i>Riparia riparia</i> bank swallow	G5 S2S3	CDFG:	Fed: None Cal: Threatened	189 S:8	0	5	0	0	0	3	7	1	8	0	0
<i>Trilobopsis roperi</i> Shasta Chaparral	G1 S1	CDFG:	Fed: None Cal: None	1	0	0	0	0	0	1	1	0	1	0	0

***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: 070830033917

Database Last Updated: August 16, 2007

Quad Lists

Listed Species

Invertebrates

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

Fish

- Acipenser medirostris
 - green sturgeon (T) (NMFS)
- Hypomesus transpacificus
 - delta smelt (T)
- Oncorhynchus mykiss
 - Central Valley steelhead (T) (NMFS)
 - Critical habitat, Central Valley steelhead (X) (NMFS)
- Oncorhynchus tshawytscha
 - Central Valley spring-run chinook salmon (T) (NMFS)

- Critical Habitat, Central Valley spring-run chinook (X) (NMFS)
- Critical habitat, winter-run chinook salmon (X) (NMFS)
- winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

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

Reptiles

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

Birds

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

Plants

- *Orcuttia tenuis*
 - Critical habitat, slender Orcutt grass (X)
 - slender Orcutt grass (T)

Candidate Species

Birds

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

Quads Containing Listed, Proposed or Candidate Species:

RED BLUFF EAST (610B)
BALLS FERRY (628B)
BEND (628C)
COTTONWOOD (629A)
SHASTA DAM (647B)
REDDING (647C)
ENTERPRISE (647D)

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 November 28, 2007.

Table A5-1. U.S. Forest Service Special-Status Wildlife Species Potentially Occurring in the Primary Study Area Above Shasta Dam

Scientific Name	Common Name	Status ¹
<i>Falco peregrinus anatum</i>	American peregrine falcon	USFS S,
<i>Empidonax traillii</i>	Willow flycatcher	USFS S
<i>Anodonta californiensis</i>	California floater	USFS S
<i>Fluminicola seminalis</i>	Nugget pebblesnail	USFS S, M
<i>Fluminicola</i> sp. 14	Potem pebblesnail	USFS M
<i>Fluminicola</i> sp. 15	Flat-top pebblesnail	USFS M
<i>Fluminicola</i> sp. 16	Shasta pebblesnail	USFS M
<i>Fluminicola</i> sp. 17	Disjunct pebblesnail	USFS M
<i>Fluminicola</i> sp. 18	Globular pebblesnail	USFS M
<i>Juga</i> (Orebasis) sp.3	Cinnamon juga	USFS M
<i>Lyogyrus</i> sp. 3	Canary duskysnail	USFS M
<i>Monadenia troglodytes wintu</i>	Wintu sideband	USFS S, M
<i>Monadenia troglodytes troglodytes</i>	Shasta sideband	USFS S, M
<i>Trilobopsis roperi</i>	Shasta chaparral	USFS S, M
<i>Vespericola shasta</i>	Shasta hesperian	USFS S, M

Table A5-1. U.S. Forest Service Special-Status Wildlife Species Potentially Occurring in the Primary Study Area Above Shasta Dam (contd.)

Scientific Name	Common Name	Status¹
<i>Vorticifex</i> sp. 1	Knobby rams-horn	USFS M
<i>Hydromantes shastae</i>	Shasta salamander	USFS S, M
<i>Rana boylei</i>	Foothill yellow-legged frog	USFS S
<i>Clemmys marmorata marmorata</i>	Northwestern pond turtle	USFS S
<i>Accipiter gentilis</i>	Northern goshawk	USFS S
<i>Antrozous pallidus</i>	Pallid bat	USFS S
<i>Lasiurus blossevillii</i>	Western red bat	USFS S
<i>Martes americana</i>	American marten	USFS S
<i>Martes pennanti pacifica</i>	Pacific fisher	USFS S

Note:

¹ Status Definitions

Key:

USFS S = USFS Sensitive

USFS M = USFS Survey and Manage Species

Table A5-2. U.S. Forest Service Special-Status Plant Species Potentially Occurring in the Primary Study Area Upstream from Shasta Dam

Scientific Name	Common Name	Current Status ¹
<i>Ageratina shastensis</i>	Shasta ageratina	USFS E
<i>Arnica venosa</i>	Shasta County arnica	USFS E
<i>Botrychium</i> subgenus <i>Botrychium</i>	Moonwort, grape-fern	USFS S
<i>Buxbaumia viridis</i>	Green bug moss	USFS S, M
<i>Cypripedium fasciculatum</i>	Clustered lady's-slipper	USFS S, M
<i>Cypripedium montanum</i>	Mountain lady's-slipper	USFS S, M
<i>Fritillaria eastwoodiae</i>	Butte County fritillary	USFS S
<i>Lewisia cantelovii</i>	Cantelow's lewisia	USFS S
<i>Neviusia cliffonii</i>	Shasta snow-wreath	USFS S
<i>Ptilidium californicum</i>	Pacific fuzzwort	USFS S, M
<i>Sedum paradisum</i>	Canyon Creek stonecrop	USFS S
<i>Smilax jamesii</i>	English Peak greenbriar	USFS S

Note:

¹ Status Codes

Key:

USFS E = USFS Endemic Species

USFS S = USFS Sensitive Species

USFS M = USFS Survey and Manage Species

Compiled by Ginger Bolen of North State Resources from Shasta-Trinity Forest Web site list of plants, the USFS Region 5 sensitive animals list, and information from various USFS personnel.

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Attachment 6 Special-Status Wildlife Species with Potential to Occur in the Primary and Extended Study Areas by Area

Wildlife Resources Technical Report

Shasta Lake Water Resources Investigation, California

Prepared by:

**United States Department of the Interior
Bureau of Reclamation
Mid-Pacific Region**



Table A6-1. Special-Status Wildlife Species Known or with Potential to Occur in the Primary and Extended Study Areas¹

Common Name	Scientific Name	Status ²			Distribution in Primary and Extended Study Area ³				
		MSCS	Federal	State	Shasta Lake and Vicinity	Upper Sacramento River	Lower Sacramento River	Delta	CVP/SWP Service Areas
Invertebrates									
Bay checkerspot butterfly	<i>Euphydryas editha bayensis</i>	-	T	-	-	-	-	-	X
Callippe silverspot	<i>Speyeria callippe callippe</i>	m	E	-	-	-	-	-	P
Conservancy fairy shrimp	<i>Branchinecta conservatio</i>	m	E	-	-	-	P	X	X
Delhi Sands flower-loving fly	<i>Rhaphiomidas terminatus abdominalis</i>	-	E	-	-	-	-	-	X
Delta green ground beetle	<i>Elaphrus viridis</i>	r	T	-	-	-	-	X	P
El Segundo blue butterfly	<i>Euphilotes battoides allyni</i>	-	E	-	-	-	-	-	X
Hirsute Sierra sideband	<i>Monadenia mormonum hirsuta</i>	-	B	-	-	-	-	-	X
Keeled sideband	<i>Monadenia circumcarinata</i>	-	B	-	-	-	-	-	X
Kern primrose sphinx moth	<i>Euproserpinus euterpe</i>	-	T	-	-	-	-	-	P
Laguna Mountains skipper	<i>Pyrgus ruralis lagunae</i>	-	E	-	-	-	-	-	P
Lange's metalmark butterfly	<i>Apodemia mormo langei</i>	R	E	-	-	-	-	X	P
Longhorn fairy shrimp	<i>Branchinecta longiantenna</i>	m	E	-	-	-	-	-	X
Midvalley fairy shrimp	<i>Branchinecta mesovallensis</i>	m	-	-	-	-	X	X	X
Monarch butterfly (roost)	<i>Danaus plexippus</i>	m	-	-	-	-	-	P	X
Mount Hermon (=barbate) June beetle	<i>Polyphylla barbata</i>	-	E	-	-	-	-	-	P

Table A6-1. Special-Status Wildlife Species Known or with Potential to Occur in the Primary and Extended Study Areas¹ (contd.)

Common Name	Scientific Name	Status ²			Distribution in Primary and Extended Study Area ³				
		MSCS	Federal	State	Shasta Lake and Vicinity	Upper Sacramento River	Lower Sacramento River	Delta	CVP/SWP Service Areas
Oregon shoulderband	<i>Helminthoglypta hertleini</i>	-	B	-	X	-	-	-	P
Palos Verdes blue butterfly	<i>Glaucopsyche lygdamus palosverdesensis</i>	-	E	-	-	-	-	-	X
Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	-	E	-	-	-	-	-	X
Riverside fairy shrimp	<i>Streptocephalus woottoni</i>	-	E	-	-	-	-	-	X
San Bruno elfin butterfly	<i>Callophrys mossii bayensis</i>	-	E	-	-	-	-	-	X
San Diego fairy shrimp	<i>Branchinecta sandiegonensis</i>	-	E	-	-	-	-	-	X
San Joaquin dune beetle	<i>Coelus gracilis</i>	-	B	-	-	-	-	X	X
Shasta chaparral	<i>Trilobopsis roperi</i>	-	S	-	X	-	-	-	-
Shasta hesperian	<i>Vespericola shasta</i>	-	S	-	X	-	-	-	-
Shasta sideband	<i>Monadenia troglodytes</i>	m	S	-	X	-	-	-	P
Smith's blue butterfly	<i>Euphilotes enoptes smithi</i>	-	E	-	-	-	-	-	P
Valley elderberry longhorn beetle	<i>Desmocerus californicus dimorphus</i>	R	T	-	-	X	X	X	X
Vernal pool fairy shrimp	<i>Branchinecta lynchi</i>	m	T	-	-	-	P	X	X
Vernal pool tadpole shrimp	<i>Lepidurus packardii</i>	m	E	-	-	-	P	X	X
Wintu Sideband	<i>Monadenia troglodytes wintu</i>	-	S	-	X	-	-	-	-

Table A6-1. Special-Status Wildlife Species Known or with Potential to Occur in the Primary and Extended Study Areas¹ (contd.)

Common Name	Scientific Name	Status ²			Distribution in Primary and Extended Study Area ³				
		MSCS	Federal	State	Shasta Lake and Vicinity	Upper Sacramento River	Lower Sacramento River	Delta	CVP/SWP Service Areas
Zayante band-winged grasshopper	<i>Trimerotropis infantilis</i>	-	E	-	-	-	-	-	X
Amphibians									
Arroyo toad	<i>Bufo californicus</i>	-	E	SC	-	-	-	-	X
California red-legged frog	<i>Rana aurora draytoni</i>	m	T	SC	-	-	-	X	X
California tiger salamander	<i>Ambystoma californiense</i>	m	T	SC	-	-	P	X	X
Cascades frog	<i>Rana cascade</i>	-	S	SC	-	-	-	-	P
Coast Range newt (Monterey County and south only)	<i>Taricha torosa torosa</i>	-	-	SC	-	-	-	-	X
Couch's spadefoot	<i>Scaphiopus couchii</i>	-	B	SC	-	-	-	-	X
Desert slender salamander	<i>Batrachoseps major aridus</i>	-	E	E	-	-	-	-	P
Foothill yellow-legged frog	<i>Rana boylei</i>	m	S, B	SC	X	-	-	-	X
Kern Canyon slender salamander	<i>Batrachoseps simatus</i>	-	-	T	-	-	-	-	P
Large-blotched salamander	<i>Ensatina klauberi</i>	-	-	SC	-	-	-	-	P
Limestone salamander	<i>Hydromantes brunus</i>	m	-	T, FP	-	-	-	-	P
Mount Lyell salamander	<i>Hydromantes platycephalus</i>	-	-	SC	-	-	-	-	X
Mountain yellow-legged frog	<i>Rana muscosa</i>	-	E	SC	-	-	-	-	X

Table A6-1. Special-Status Wildlife Species Known or with Potential to Occur in the Primary and Extended Study Areas¹ (contd.)

Common Name	Scientific Name	Status ²			Distribution in Primary and Extended Study Area ³				
		MSCS	Federal	State	Shasta Lake and Vicinity	Upper Sacramento River	Lower Sacramento River	Delta	CVP/SWP Service Areas
Northern leopard frog (native populations)	<i>Rana pipiens</i>	-	-	SC	-	-	-	-	P
Oregon spotted frog	<i>Rana pretiosa</i>	-	C	SC	-	-	-	-	P
Relictual slender salamander	<i>Batrachoseps relictus</i>	-	-	SC	-	-	-	-	P
Santa Cruz long-toed salamander	<i>Ambystoma macrodactylum croceum</i>	-	E	E, FP	-	-	-	-	X
Shasta salamander	<i>Hydromantes shastae</i>	m	B	T	X	-	-	-	X
Southern torrent salamander	<i>Rhyacotriton variegatus</i>	-	S	SC	-	-	-	-	P
Tehachapi slender salamander	<i>Batrachoseps stebbinsi</i>	-	B	T	-	-	-	-	X
Western spadefoot toad	<i>Spea hammondii</i>	m	B	SC	-	-	P	P	X
Western tailed frog	<i>Ascaphus truei</i>	-	-	SC	P	P	-	-	X
Yellow-blotched salamander	<i>Ensatina eschscholtzii croceator</i>	-	B	SC	-	-	-	-	X
Yosemite toad	<i>Bufo canorus</i>	-	C	SC	-	-	-	-	X
Reptiles									
Alameda whipsnake	<i>Masticophis lateralis euryxanthus</i>	m	T	T	-	-	-	P	P
Black legless lizard	<i>Anniella pulchra nigra</i>	-	-	SC	-	-	-	-	P
Blunt-nosed leopard lizard	<i>Gambelia silus</i>	m	E	E, FP	-	-	-	-	X
California mountain kingsnake (San Bernardino population)	<i>Lampropeltis zonata (parvirubra)</i>	-	-	SC	-	-	-	-	X

Table A6-1. Special-Status Wildlife Species Known or with Potential to Occur in the Primary and Extended Study Areas¹ (contd.)

Common Name	Scientific Name	Status ²			Distribution in Primary and Extended Study Area ³				
		MSCS	Federal	State	Shasta Lake and Vicinity	Upper Sacramento River	Lower Sacramento River	Delta	CVP/SWP Service Areas
California mountain kingsnake (San Diego population)	<i>Lampropeltis zonata (pulchra)</i>	-	-	SC	-	-	-	-	P
Coachella Valley fringe-toed lizard	<i>Uma inornata</i>	-	T	E	-	-	-	-	X
Coast (California) horned lizard	<i>Phrynosoma coronatum (frontale population)</i>	-	B	SC	-	-	-	P	X
Coast (San Diego) horned lizard	<i>Phrynosoma coronatum (blainvillii population)</i>	-	-	SC	-	-	-	-	X
Coast patch-nosed snake	<i>Salvadora hexalepis virgultea</i>	-	-	SC	-	-	-	-	X
Colorado Desert fringe-toed lizard	<i>Uma notata</i>	-	B	SC	-	-	-	-	P
Coronado skink	<i>Eumeces skiltonianus interparietalis</i>	-	B	SC	-	-	-	-	X
Desert tortoise	<i>Gopherus agassizii</i>	-	T	T	-	-	-	-	X
Flat-tailed horned lizard	<i>Phrynosoma mcallii</i>	-	PT, B	SC	-	-	-	-	X
Giant garter snake	<i>Thamnophis gigas</i>	r	T	T	-	-	P	X	X
Mohave fringe-toed lizard	<i>Uma scoparia</i>	-	B	SC	-	-	-	-	X
Northern red-diamond rattlesnake	<i>Crotalus ruber ruber</i>	-	-	SC	-	-	-	-	X
Northwestern pond turtle	<i>Actinemys marmorata marmorata</i>	m	S	SC	X	X	X	X	X
Orange-throated whiptail	<i>Aspidoscelis hyperythra</i>	-	-	SC	-	-	-	-	X

Table A6-1. Special-Status Wildlife Species Known or with Potential to Occur in the Primary and Extended Study Areas¹ (contd.)

Common Name	Scientific Name	Status ²			Distribution in Primary and Extended Study Area ³				
		MSCS	Federal	State	Shasta Lake and Vicinity	Upper Sacramento River	Lower Sacramento River	Delta	CVP/SWP Service Areas
San Joaquin whipsnake	<i>Masticophis flagellum ruddocki</i>	m	-	SC	-	-	-	P	X
Sandstone night lizard	<i>Xantusia gracilis</i>	-	-	SC	-	-	-	-	P
Sierra night lizard	<i>Xantusia vigilis sierrae</i>	-	-	SC	-	-	-	-	P
Silvery legless lizard	<i>Anniella pulchra pulchra</i>	-	-	SC	-	-	-	X	X
South coast garter snake	<i>Thamnophis sirtalis ssp.</i>	-	-	SC	-	-	-	-	P
Southern rubber boa	<i>Charina umbratica</i>	-	-	T	-	-	-	-	X
Two-striped garter snake	<i>Thamnophis hammondi</i>	-	B	SC	-	-	-	-	X
Birds									
Aleutian Canada goose	<i>Branta canadensis leucopareia</i>	m	D	-	P	P	P	X	X
Alameda song sparrow	<i>Melospiza melodia pusillula</i>	-	-	SC	-	-	-	-	X
American peregrine falcon	<i>Falco peregrinus anatum</i>	m	D	E, FP	P	P	P	X	X
American white pelican	<i>Pelecanus erythrorhynchos</i>	-	-	SC	-	-	P	X	X
Bald eagle	<i>Haliaeetus leucocephalus</i>	m	D	E, FP	X	X	P	X	X
Bank swallow	<i>Riparian riparia</i>	r	-	T	-	X	X	X	X
Belding's savannah sparrow	<i>Passerculus sandwichensis beldingi</i>	-	-	E	-	-	-	-	X
Bendire's thrasher	<i>Toxostoma bendirei</i>	-	B	SC	-	-	-	-	X
Black-crowned night heron (rookery)	<i>Nycticorax nycticorax</i>	m	B	-	P	P	P	X	X

Table A6-1. Special-Status Wildlife Species Known or with Potential to Occur in the Primary and Extended Study Areas¹ (contd.)

Common Name	Scientific Name	Status ²			Distribution in Primary and Extended Study Area ³				
		MSCS	Federal	State	Shasta Lake and Vicinity	Upper Sacramento River	Lower Sacramento River	Delta	CVP/SWP Service Areas
Black skimmer	<i>Rynchops niger</i>	-	-	SC	-	-	-	-	X
Black swift	<i>Cypseloides niger</i>	-	-	SC	-	-	-	-	X
Black tern	<i>Chidonias niger</i>	m	-	SC	-	-	P	X	P
California black rail	<i>Laterallus jamaicensis coturniculus</i>	r	-	T, FP	-	-	-	X	X
California brown pelican	<i>Pelecanus occidentalis californicus</i>	m	E	E	-	-	-	X	X
California clapper rail	<i>Rallus longirostris obsoletus</i>	r	E	E, FP	-	-	-	-	X
California condor	<i>Gymnogyps californicus</i>	m	E	E	-	-	-	-	X
California gull	<i>Larus californicus</i>	m	-	-	P	P	P	P	P
California least tern	<i>Sterna antillarum browni</i>	m	E	E, FP	-	-	-	X	X
California spotted owl	<i>Strix occidentalis occidentalis</i>	-	B	SC	-	-	-	-	P
California yellow warbler	<i>Dendroica petechia brewsteri</i>	r	-	-	X	P	P	P	P
Coastal cactus wren	<i>Campylorhynchus brunneicapillus sandiegensis</i>	-	-	SC	-	-	-	-	X
Coastal California gnatcatcher	<i>Polioptila californica californica</i>	-	T	-	-	-	-	-	X
Cooper's hawk	<i>Accipiter cooperi</i>	m	-	-	P	P	P	X	X
Crissal thrasher	<i>Toxostoma crissale</i>	-	-	SC	-	-	-	-	X

Table A6-1. Special-Status Wildlife Species Known or with Potential to Occur in the Primary and Extended Study Areas¹ (contd.)

Common Name	Scientific Name	Status ²			Distribution in Primary and Extended Study Area ³				
		MSCS	Federal	State	Shasta Lake and Vicinity	Upper Sacramento River	Lower Sacramento River	Delta	CVP/SWP Service Areas
Double-crested cormorant (rookery)	<i>Phalacrocorax auritus</i>	m	-	-	P	P	P	X	X
Ferruginous hawk	<i>Buteo regalis</i>	-	B	-	-	-	P	X	X
Fulvous whistling-duck	<i>Dendrocygna bicolor</i>	-	-	SC	-	-	-	-	X
Golden eagle	<i>Aquila chrysaetos</i>	m	B	FP	-	P	P	X	X
Grasshopper sparrow	<i>Ammodramus savannarum</i>	m	-	-	-	-	P	X	P
Gray vireo	<i>Vireo vicinior</i>	-	B	SC	-	-	-	-	X
Great blue heron (rookery)	<i>Ardea herodias</i>	m	-	-	P	P	X	X	X
Great egret (rookery)	<i>Casmerodius albus</i>	m	-	-	P	P	X	X	X
Great gray owl	<i>Strix nebulosa</i>	-	-	E	-	-	-	-	X
Greater sandhill crane	<i>Grus canadensis tabida</i>	r	-	T, FP	-	P	P	X	X
Gull-billed tern	<i>Gelochelidon nilotica</i>	-	-	SC	-	-	-	-	X
Harlequin duck	<i>Histrionicus histrionicus</i>	-	-	SC	-	-	-	-	P
Large-billed savannah sparrow	<i>Passerculus sandwichensis rostratus</i>	-	-	SC	-	-	-	-	P
Least Bell's vireo	<i>Vireo bellii pusillus</i>	r	E	E	-	-	-	-	X
Least bittern	<i>Ixobrychus exilis</i>	m	-	SC	-	P	P	P	X
Le Conte's thrasher	<i>Toxostoma lecontei</i>	-	B	SC	-	-	-	-	X
Light-footed clapper rail	<i>Rallus longirostris levipes</i>	-	E	E, FP	-	-	-	-	X
Little willow flycatcher	<i>Empidonax traillii brewsteri</i>	r	S	E	-	P	P	X	P
Loggerhead shrike	<i>Lanius ludovicianus</i>	-	-	SC	-	X	X	X	X

Table A6-1. Special-Status Wildlife Species Known or with Potential to Occur in the Primary and Extended Study Areas¹ (contd.)

Common Name	Scientific Name	Status ²			Distribution in Primary and Extended Study Area ³				
		MSCS	Federal	State	Shasta Lake and Vicinity	Upper Sacramento River	Lower Sacramento River	Delta	CVP/SWP Service Areas
Long-billed curlew	<i>Numenius americanus</i>	m	-	-	-	P	P	X	P
Long-eared owl	<i>Asio otus</i>	m	-	SC	P	P	P	X	X
Mountain plover	<i>Charadrius montanus</i>	m	B	SC	X	P	P	P	X
Northern goshawk	<i>Accipiter gentilis</i>	-	S, B	SC	P	-	-	-	X
Northern harrier	<i>Circus cyaneus</i>	m	-	SC	-	P	X	X	X
Northern spotted owl	<i>Strix occidentalis caurina</i>	m	T	-	P	-	-	-	P
Osprey	<i>Pandion haliaetus</i>	m	-	-	X	X	X	X	X
Purple martin	<i>Progne subis</i>	-	-	SC	X	P	X	X	X
Salt marsh common yellowthroat	<i>Geothlypis trichas sinuosa</i>	r	-	SC	-	-	-	X	X
San Pablo song sparrow	<i>Melospiza melodia samuelis</i>	R	-	-	-	-	-	X	X
Short-eared owl	<i>Asio flammeus</i>	m	-	SC	-	P	P	X	X
Snowy egret (rookery)	<i>Egretta thula</i>	m	-	-	P	P	X	X	X
Sonoran yellow warbler	<i>Dendroica petechia sonorana</i>	-	-	SC	-	-	-	-	P
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	-	E	E	-	-	-	-	X
Suisun song sparrow	<i>Melospiza melodia maxillaris</i>	R	-	SC	-	-	-	X	X
Summer tanager	<i>Piranga rubra</i>	-	-	SC	-	-	-	-	P
Swainson's hawk	<i>Buteo swainsoni</i>	r	-	T	-	P	X	X	X
Tricolored blackbird	<i>Agelaius tricolor</i>	m	B	SC	-	P	X	X	X

Table A6-1. Special-Status Wildlife Species Known or with Potential to Occur in the Primary and Extended Study Areas¹ (contd.)

Common Name	Scientific Name	Status ²			Distribution in Primary and Extended Study Area ³				
		MSCS	Federal	State	Shasta Lake and Vicinity	Upper Sacramento River	Lower Sacramento River	Delta	CVP/SWP Service Areas
Vaux's swift	<i>Chaetura vauxi</i>	-	-	SC	P	-	-	-	P
Western burrowing owl	<i>Athene cunicularia hypugea</i>	m	B	SC	-	-	P	X	X
Western snowy plover	<i>Charadrius alexandrinus nivosus</i>	m	T	-	-	-	-	X	X
Western yellow-billed cuckoo	<i>Coccyzus americanus occidentalis</i>	r	C	E	-	P	X	X	X
White-faced ibis	<i>Plegadis chihi</i>	m	-	-	-	-	X	X	X
White-tailed kite	<i>Elanus leucurus</i>	m	-	FP	P	P	X	X	X
Vermilion flycatcher	<i>Pyrocephalus rubinus</i>	-	-	SC	-	-	-	-	X
Yellow rail	<i>Coturnicops noveboracensis</i>	-	-	SC	-	-	-	-	X
Yellow-breasted chat	<i>Icteria virens</i>	m	-	SC	X	P	P	P	X
Yuma clapper rail	<i>Rallus longirostris yumanensis</i>	-	E	T, FP	-	-	-	-	X
Mammals									
Alameda Island mole	<i>Scapanus latimanus parvus</i>	-	-	SC	-	-	-	-	X
American badger	<i>Taxidea taxus</i>	-	-	SC	-	P	P	X	X
American marten	<i>Martes americana</i>	-	S	-	X	-	-	-	
Big free-tailed bat	<i>Nyctinomops macrotis</i>	-	-	SC	-	-	-	-	X
Big-eared kangaroo rat	<i>Dipodomys venustus elephantinus</i>	-	-	SC	-	-	-	-	X
Buena Vista Lake shrew	<i>Sorex ornatus relictus</i>	-	E	SC	-	-	-	-	X

Table A6-1. Special-Status Wildlife Species Known or with Potential to Occur in the Primary and Extended Study Areas¹ (contd.)

Common Name	Scientific Name	Status ²			Distribution in Primary and Extended Study Area ³				
		MSCS	Federal	State	Shasta Lake and Vicinity	Upper Sacramento River	Lower Sacramento River	Delta	CVP/SWP Service Areas
California leaf-nosed bat	<i>Macrotus californicus</i>	-	-	SC	-	-	-	-	P
California wolverine	<i>Gulo gulo luteus</i>	m	S	T, FP	-	-	-	-	X
Dulzura pocket mouse	<i>Chaetodipus californicus femoralis</i>	-	-	SC	-	-	-	-	X
Fresno kangaroo rat	<i>Dipodomys nitratooides exilis</i>	-	E	E	-	-	-	-	X
Giant kangaroo rat	<i>Dipodomys ingens</i>	m	E	E	-	-	-	-	X
Greater western mastiff-bat	<i>Eumops perotis californicus</i>	m	B	SC	P	P	P	P	X
Jacumba pocket mouse	<i>Perognathus longimembris internationalis</i>	-	-	SC	-	-	-	-	X
Lesser long-nosed bat	<i>Leptonycteris yerbabuenae</i>	-	E	-	-	-	-	-	P
Long-eared myotis	<i>Myotis evotis</i>	-	B	-	P	P	-	P	X
Los Angeles pocket mouse	<i>Perognathus longimembris brevinasus</i>	-	-	SC	-	-	-	-	X
Marysville kangaroo rat	<i>Dipodomys californicus eximius</i>	-	-	SC	-	-	-	-	P
Merced kangaroo rat	<i>Dipodomys heermanni dixonii</i>	m	-	-	-	-	-	-	P
Mexican long-tongued bat	<i>Choeronycteris Mexicana</i>	-	-	SC	-	-	-	-	X
Mohave ground squirrel	<i>Spermophilus mohavensis</i>	-	-	T	-	-	-	-	X

Table A6-1. Special-Status Wildlife Species Known or with Potential to Occur in the Primary and Extended Study Areas¹ (contd.)

Common Name	Scientific Name	Status ²			Distribution in Primary and Extended Study Area ³				
		MSCS	Federal	State	Shasta Lake and Vicinity	Upper Sacramento River	Lower Sacramento River	Delta	CVP/SWP Service Areas
Monterey dusky-footed woodrat	<i>Neotoma macrotis luciana</i>	-	-	SC	-	-	-	-	X
Monterey ornate shrew	<i>Sorex ornatus salarius</i>	-	-	SC	-	-	-	-	P
Morro Bay kangaroo rat	<i>Dipodomys heermanni morroensis</i>	-	E	E, FP	-	-	-	-	X
Nelson's antelope ground squirrel	<i>Ammospermophilus nelsoni</i>	m	-	T	-	-	-	-	X
Nelson's bighorn sheep	<i>Ovis canadensis nelsoni</i>	-	B	-	-	-	-	-	X
Northwestern San Diego pocket mouse	<i>Chaetodipus fallax fallax</i>	-	-	SC	-	-	-	-	X
Oregon snowshoe hare	<i>Lepus americanus klamathensis</i>	-	-	SC	P	-	-	-	P
Pacific fisher	<i>Martes pennanti pacifica</i>	-	C, S, B	SC	X	-	-	-	X
Pacific pocket mouse	<i>Perognathus longimembris pacificus</i>	-	E	SC	-	-	-	-	X
Pallid bat	<i>Antrozous pallidus</i>	-	S, B	SC	P	P	P	X	X
Pallid San Diego pocket mouse	<i>Chaetodipus fallax pallidus</i>	-	-	SC	-	-	-	-	X
Palm Springs pocket mouse	<i>Perognathus longimembris bangsi</i>	-	B	-	-	-	-	-	X
Palm Springs round-tailed ground squirrel	<i>Spermophilus tereticaudus chlorus</i>	-	C	SC	-	-	-	-	X
Peninsular bighorn sheep	<i>Ovis canadensis nelsoni</i> DPS ⁴	-	E	T, FP	-	-	-	-	X

Table A6-1. Special-Status Wildlife Species Known or with Potential to Occur in the Primary and Extended Study Areas¹ (contd.)

Common Name	Scientific Name	Status ²			Distribution in Primary and Extended Study Area ³				
		MSCS	Federal	State	Shasta Lake and Vicinity	Upper Sacramento River	Lower Sacramento River	Delta	CVP/SWP Service Areas
Pocketed free-tailed bat	<i>Nyctinomops femorosaccus</i>	-	-	SC	-	-	-	-	X
Ringtail	<i>Bassariscus astutus</i>	m	-	FP	X	P	P	P	P
Riparian brush rabbit	<i>Sylvilagus bachmanii riparius</i>	r	E	E	-	-	-	X	X
Riparian (=San Joaquin Valley) woodrat	<i>Neotoma fuscipes riparia</i>	r	E	SC	-	-	-	X	X
Salt marsh harvest mouse	<i>Reithrodontomys raviventris</i>	r	E	E, FP	-	-	-	X	X
Salt marsh wandering shrew	<i>Sorex vagrans halicoetes</i>	-	-	SC	-	-	-	X	X
San Bernardino flying squirrel	<i>Glaucomys sabrinus californicus</i>	-	-	SC	-	-	-	-	X
San Bernardino kangaroo rat	<i>Dipodomys merriami parvus</i>	-	E	-	-	-	-	-	X
San Diego black-tailed jackrabbit	<i>Lepus californicus bennettii</i>	-	-	SC	-	-	-	-	X
San Diego desert woodrat	<i>Neotoma lepida intermedia</i>	-	-	SC	-	-	-	-	X
San Joaquin kit fox	<i>Vulpes macrotis mutica</i>	m	E	T	-	-	-	X	X
San Joaquin pocket mouse	<i>Perognathus inornatus inornatus</i>	-	B	-	-	-	-	X	X
San Pablo California vole	<i>Microtus californicus sanpabloensis</i>	r	-	SC	-	-	-	X	X

Table A6-1. Special-Status Wildlife Species Known or with Potential to Occur in the Primary and Extended Study Areas¹ (contd.)

Common Name	Scientific Name	Status ²			Distribution in Primary and Extended Study Area ³				
		MSCS	Federal	State	Shasta Lake and Vicinity	Upper Sacramento River	Lower Sacramento River	Delta	CVP/SWP Service Areas
Short-nosed kangaroo rat	<i>Dipodomys nitratooides brevinasus</i>	-	B	-	-	-	-	-	X
Sierra Nevada mountain beaver	<i>Aplodontia rufa californica</i>	-	-	SC	-	-	-	-	P
Sierra Nevada red fox	<i>Vulpes vulpes nector</i>	-	-	T	-	-	-	-	X
Sierra Nevada showshoe hare	<i>Lepus americanus tahoensis</i>	-	-	SC	-	-	-	-	X
South coast marsh vole	<i>Microtus californicus stephensi</i>	-	-	SC	-	-	-	-	X
Southern California salt marsh shrew	<i>Sorex ornatus salicornicus</i>	-	-	SC	-	-	-	-	X
Southern grasshopper mouse	<i>Onychomys torridus ramona</i>	-	-	SC	-	-	-	-	X
Spotted bat	<i>Euderma maculatum</i>	-	-	SC	P	P	P	P	X
Stephens' kangaroo rat	<i>Dipodomys stephensi</i>	-	E	T	-	-	-	-	X
Suisun ornate shrew	<i>Sorex ornatus sinuosus</i>	R	-	SC	-	-	-	X	X
Tehachapi pocket mouse	<i>Perognathus alticolus inexpectatus</i>	-	-	SC	-	-	-	-	X
Tipton kangaroo rat	<i>Dipodomys nitratooides nitratooides</i>	-	E	E	-	-	-	-	X
Townsend's big-eared bat	<i>Corynorhinus townsendii</i>	-	S, B	SC	P	P	P	P	X
Tulare grasshopper mouse	<i>Onychomys torridus tularensis</i>	-	B	SC	-	-	-	-	X
Western red bat	<i>Lasiurus blossevillii</i>	-	S	SC	P	P	P	X	X

Table A6-1. Special-Status Wildlife Species Known or with Potential to Occur in the Primary and Extended Study Areas¹ (contd.)

Common Name	Scientific Name	Status ²			Distribution in Primary and Extended Study Area ³				
		MSCS	Federal	State	Shasta Lake and Vicinity	Upper Sacramento River	Lower Sacramento River	Delta	CVP/SWP Service Areas
Western small-footed myotis	<i>Myotis ciliolabrum</i>	-	B	-	P	P	P	P	X
Western white-tailed jackrabbit	<i>Lepus townsendii townsendii</i>	-	-	SC	-	-	-	-	P
White-eared pocket mouse	<i>Perognathus alticolus alticolus</i>	-	B	SC	-	-	-	-	X

Notes:

¹ Based on California Natural Diversity Database (2007). Species concluded to be unlikely to occur in the study areas are not included.

² Status codes defined below. Status listings are consistent with the DFG Special Animals List as updated in October 2007.

³ P = Species with the potential to occur in an area, but not documented in CNDDDB. X = species recorded in the area by CNDDDB.

⁴ DPS = Distinct Population Segment

MSCS Status Categories:

m Maintain
r Contribute to recovery
R Recovery

Federal Status Categories:

T USFWS Threatened
E USFWS Endangered
PT USFWS Proposed Threatened
C USFWS Candidate for Listing
D USFWS Recently Delisted
S USFS Sensitive for Shasta-Trinity National Forest
B BLM Sensitive

State Status Categories:

T California Threatened
E California Endangered
FP Fully Protected under California Fish and Game Code
SC DFG Species of Concern

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Attachment 7 List of All Sensitive Wildlife Species in the Extended Study Area Reported to the CNDDB

Wildlife Resources Technical Report

Shasta Lake Water Resources Investigation, California

Prepared by:

**United States Department of the Interior
Bureau of Reclamation
Mid-Pacific Region**



Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
A cuckoo bee	<i>Paranomada californica</i>	None	None/None	None	None	None	SWP	Mojave WA-Div 2-Imp Dist M
A cuckoo wasp	<i>Ceratochrysis longimala</i>	None	None/None	None	None	None	SWP	Antelope Valley-East Kern W.A. Metropolitan Water District
	<i>Chrysis tularensis</i>	None	None/None	None	None	None	CVP	Kaweah Delta W.C.D.
A harvestman	<i>Calicina arida</i>	None	None/None	Ultramafic	Known only from the type locality, Panoche Road, San Benito County.	Found on serpentine rocks	CVP	San Benito Co. W.C. & F.C. Dist.
	<i>Calicina breva</i>	None	None/None	Valley and foothill grassland	Known only from the type locality, 1.6 km south of Knight's Ferry, Stanislaus County.	Found under basalt rocks in grassland.	CVP	Oakdale I.D.
A leptonetid spider	<i>Calileptoneta oasa</i>	None	None/None	Mojavean desert scrub	Known only from the type locality, Andreas Canyon, Palm Springs, Riverside County.	None	SWP	Desert Water Agency

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
A mellitid bee	<i>Melitta californica</i>	None	None/None	None	Desert regions of sw Arizona, se California, and Baja California, Mexico. Also collected from Torrey pines, San Diego County.	Earlier records of <i>M. Wilmattae</i> pertain to this species; species was synonymized with <i>M. Californica</i> in 1981.	SWP	Metropolitan Water District
A schizomid arachnid	<i>Hubbardia idria</i>	None	None/None	Ultramafic	Known only from the type locality, 2.9 km SW of Idria, San Benito County.	Serpentine endemic.	CVP	San Benito Co. W.C. & F.C. Dist.
A vernal pool andrenid bee	<i>Andrena blennospermatis</i>	None	None/None	Vernal pool	This bee is oligolectic on vernal pool blennosperma.	Bees nest in the uplands around vernal pools.	CVP	El Dorado I.D. Maine Prairie W.D. Stockton-East W.D.
	<i>Andrena subapasta</i>	None	None/None	Vernal pool	Collects pollen primarily from <i>arenaria californica</i> but also <i>orthocarpus Erianthus</i> & <i>Lasthenia</i> sp.	Nests in uplands near vernal pools.	CVP	City of Roseville W.S.A. Placer Co. Water Agency Zone 1 San Juan W.D. Stockton-East W.D.
A water flea	<i>Dumontia oregonensis</i>	None	None/None	Vernal pool	Vernal pools. In California, known only from mather field.	None	CVP	Sacramento Co. Water Agency Solano I.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Alameda Island mole	<i>Scapanus latimanus parvus</i>	None	None/SC	Valley and foothill grassland	Only known from Alameda Island. Found in a variety of habitats, especially annual & perennial grasslands.	Prefers moist, friable soils. Avoids flooded soils.	CVP	East Bay M.U.D.
Alameda song sparrow	<i>Melospiza melodia pusillula</i>	None	None/SC	Salt marsh	Resident of salt marshes bordering south arm of San Francisco Bay.	Inhabits salicornia marshes; nests low in grindelia bushes (high enough to escape high tides) and in salicornia.	CVP	East Bay M.U.D. Santa Clara Valley W.D. Alameda County Water District Santa Clara Valley W.D.
							SWP	Alameda County Water District Santa Clara Valley W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
American badger	<i>Taxidea taxus</i>	None	None/SC	Coastal scrub	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils.	Need sufficient food, friable soils & open, uncultivated ground. Prey on burrowing rodents. Dig burrows.	CVP	Arvin-Edison W.S.D. Buena Vista W.S.D. Byron-Bethany I.D. Central California I.D. City of Avenal City of Coalinga City of Fresno Service Area City of Huron W.S.A. City of Sacramento W.S.A. City of Tracy Contra Costa W.D. Delano-Earlimart I.D. East Bay M.U.D. Fresno I.D. Grasslands W.D. Kaweah Delta W.C.D. Kern-Tulare W.D. Madera I.D. North Kern W.S.D. Pajaro Valley W.M.A. Porterville I.D. Sacramento Co. Water Agency San Benito Co. W.C. & F.C. Dist. San Luis Canal Co. Santa Clara Valley W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
American badger (contd.)	<i>Taxidea taxus</i> (contd.)	None (contd.)	None/SC (contd.)	Coastal scrub (contd.)	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. (contd.)	Need sufficient food, friable soils & open, uncultivated ground. Prey on burrowing rodents. Dig burrows. (contd.)	CVP (contd.)	Santa Maria Valley W.C.D. Santa Ynez River W.C.D. Tea Pot Dome W.D. The West Side I.D. United W.C.D. Westlands Distrib. District No. 1 Westlands W.D.
American badger	<i>Taxidea taxus</i>	None	None/SC	Coastal scrub	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils.	Need sufficient food, friable soils & open, uncultivated ground. Prey on burrowing rodents. Dig burrows.	SWP	Alameda Co FC & WCD Zone 7 Antelope Valley-East Kern W.A. Buena Vista W.S.D. Buttonwillow Improvement Dist. Cawelo W.D. Coachella Valley W.D. Crestline-Lake Arrowhead W.A. Dudley Ridge W.D. Henry Miller W.D. Kern Co W.A. Improv.Dist. #4 Kern Delta W.D. Metropolitan Water District Mojave WA-Div 2-Imp Dist M

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
American badger (contd.)	<i>Taxidea taxus</i> (contd.)	None (contd.)	None/SC (contd.)	Coastal scrub (contd.)	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. (contd.)	Need sufficient food, friable soils & open, uncultivated ground. Prey on burrowing rodents. Dig burrows. (contd.)	SWP (contd.)	Oak Flat W.D. San Bernardino Valley M.W.D. San Geronio Pass Water Agency Santa Clara Valley W.D. Semitropic W.S.D. Tejon-Castac W.D. West Kern W.D. Wheeler Ridge-Maricopa W.S.D.
An andrenid bee	<i>Andrena macswaini</i>	None	None/None	Vernal pool	This bee is oligolectic on morning-opening, yellow-flowered spp of camissonia.	Nests in deep, sandy soil; the only species in the subgenus diandrena with aggregated nests associated with depressions.		
An isopod	<i>Calasellus californicus</i>	None	None/None	Aquatic	Known from Lake, Napa, and Santa Clara Counties.	None	CVP	Santa Clara Valley W.D.
	<i>Calasellus longus</i>	None	None/None	Aquatic	Spring	None	SWP	Santa Clara Valley W.D.
							CVP	Fresno Co. Service Area No. 41

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Andrew's marble butterfly	<i>Euchloe hyantis andrewsi</i>	None	None/None	Lower montane coniferous forest	Inhabits Yellow Pine Forest near Lake Arrowhead and Big Bear Lake, San Bernardino Mtns, San Bernardino Co, 5,000–6,000 ft.	Hostplants are streptanthus bernardinus & arabis holboellii var pinetorum; larval foodplant is descurainia richardsonii.	SWP	Crestline-Lake Arrowhead W.A.
Antioch andrenid bee	<i>Perdita scitula antiochensis</i>	None	None/None	Interior dunes	Known only from Antioch Dunes and Oakley.	Visits flowers of eriogonum, gutierrezia californica, heterotheca grandiflora, lessingia glandulifera.	CVP	Contra Costa W.D.
Antioch Dunes anthicid beetle	<i>Anthicus antiochensis</i>	None	None/None	Interior dunes	Extirpated from Antioch Dunes but present in several localities along the Sacramento and Feather Rivers.	None	CVP	Contra Costa W.D. Shasta Co. W.A.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Antioch Dunes halcetid bee	<i>Sphecodogastra antiochensis</i>	None	None/None	Interior dunes	Restricted to Antioch Dunes.	Host plant is <i>oenothera deltoides howellii</i> . This bee nests in the ground in stabilized sand dunes in open, xeric areas.	CVP	Contra Costa W.D.
Antioch efferian robberfly	<i>Efferia antiochi</i>	None	None/None	Interior dunes	Known only from Contra Costa and Fresno Counties.	None	CVP	City of Fresno Service Area Contra Costa W.D. East Bay M.U.D. Fresno I.D.
Antioch multilid wasp	<i>Myrmosula pacifica</i>	None	None/None	Interior dunes	None	None	CVP	Contra Costa W.D.
Antioch specid wasp	<i>Philanthus nasalis</i>	None	None/None	Interior dunes	Previously known only from Antioch Dunes, in Contra Costa Co. Now known only from the Inland Sandhills in Santa Cruz Co.	None	CVP	Contra Costa W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
arroyo chub	<i>Gila orcuttii</i>	None	None/SC	South coastal flowing waters	Los Angeles basin south coastal streams.	Slow water stream sections with mud or sand bottoms.	CVP	Santa Maria Valley W.C.D. United W.C.D.
							SWP	Metropolitan Water District San Bernardino Valley M.W.D.
arroyo chub (contd.)	<i>Gila orcuttii</i> (contd.)	None (contd.)	None/SC (contd.)	South coastal flowing waters (contd.)	Los Angeles basin south coastal streams (contd.).	Feed heavily on aquatic vegetation & associated invertebrates.	SWP (contd.)	Metropolitan Water District San Bernardino Valley M.W.D.
arroyo toad	<i>Bufo californicus</i>	Endangered	None/SC	Riparian scrubs	Semi-arid regions near washes or intermittent streams, including valley-foothill and desert riparian, desert wash, etc.	Rivers with sandy banks, willows, cottonwoods, and sycamores; loose, gravelly areas of streams in drier parts of range.	SWP	Metropolitan Water District Palmdale W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
bald eagle	<i>Haliaeetus leucocephalus</i>	Threatened	Endangered, Fully Protected / None	Lower montane coniferous forest	Ocean shore, lake margins, & rivers for both nesting & wintering. Most nests within 1 mi of water.	Nests in large, old-growth, or dominant live tree w/open branches, especially ponderosa pine. Roosts communally in winter	CVP	Ahmann, John E./Judy A. Anderson-Cottonwood I.D. Butte Valley I.D. Calaveras Co. W.D. East Bay M.U.D. El Dorado I.D. Nevada I.D. Shasta Co. W.A. Tuolumne Utilities District
bald eagle (contd.)	<i>Haliaeetus leucocephalus</i> (contd.)	Threatened (contd.)	Endangered, Fully Protected / None (contd.)	Lower montane coniferous forest (contd.)	Ocean shore, lake margins, & rivers for both nesting & wintering. Most nests within 1 mi of water. (contd.)	Nests in large, old-growth, or dominant live tree w/open branches, especially ponderosa pine. Roosts communally in winter (contd.)	SWP	Alameda Co FC & WCD Zone 7 Crestline-Lake Arrowhead W.A. Metropolitan Water District Wheeler Ridge-Maricopa W.S.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
bank swallow	<i>Riparia riparia</i>	None	Threatened/ None	Riparian scrubs	Colonial nester; nests primarily in riparian and other lowland habitats west of the desert.	Requires vertical banks/cliffs with fine-textured/sandy soils near streams, rivers, lakes, ocean to dig nesting hole.	CVP	Anderson, Arthur et al (Formerly Westfall, Mary) Anderson-Cottonwood I.D. Bardis, Christo D. et al (Broomieside Farms) Butte Creek Farms (A) Butte Creek Farms (Y) Byrd, Anna C. and Osborne, Jane Carter M.W.C. Central California I.D. City of Redding City of Redding - 2871 City of Sacramento W.S.A. City of Santa Barbara W.S.A. Columbia Canal Co. Daniell, Harry W. Eastside M.W.C. Ehrke, Allen A. and Bonnie E. Feather W.D. Forry, Laurie E. Giovannetti, B.E. Glenn-Colusa I.D. Goleta Co. W.D. Heidrick, Mildred (8322) King, Benjamin and Laura King, Laura

Table A7-1. Special-Status Wildlife Species Reported to the CNDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
bank swallow (contd.)	<i>Riparia riparia</i> (contd.)	None (contd.)	Threatened/ None (contd.)	Riparian scrubs (contd.)	Colonial nester; nests primarily in riparian and other lowland habitats west of the desert. (contd.)	Requires vertical banks/cliffs with fine- textured/ sandy soils near streams, rivers, lakes, ocean to dig nesting hole. (contd.)	CVP (contd.)	Lomo Cold Storage and Michelli, Justin Meridian Farms Water Company Monterey Co. Recycling Project Odysseus Farms Pacific Realty Associates, L.P. (M & T Chico Ranch) Pajaro Valley W.M.A. R and J Anderson Properties, L.P. Reclamation District No. 108 Redding Rancheria Tribe
bank swallow (contd.)	<i>Riparia riparia</i> (contd.)	None (contd.)	Threatened/ None (contd.)	Riparian scrubs (contd.)	Colonial nester; nests primarily in riparian and other lowland habitats west of the desert. (contd.)	Requires vertical banks/cliffs with fine- textured/ sandy soils near streams, rivers, lakes, ocean to dig nesting hole. (contd.)	CVP (contd.)	River Garden Farms Company Roberts Ditch Irrigation Company San Benito Co. W.C. & F.C. Dist. San Juan W.D. Santa Clara Valley W.D. Shasta Co. W.A. Spence, Ruthann Sutter M.W.C. Sycamore Family Trust Tenhunfeld, Fred, Wallace Jack, et al Tulelake I.D. United W.C.D. Windswept Land and Livestock Company

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
bank swallow (contd.)	<i>Riparia riparia</i> (contd.)	None (contd.)	Threatened/None (contd.)	Riparian scrubs (contd.)	Colonial nester; nests primarily in riparian and other lowland habitats west of the desert. (contd.)	Requires vertical banks/cliffs with fine-textured/sandy soils near streams, rivers, lakes, ocean to dig nesting hole. (contd.)	SWP	Alameda County Water District Metropolitan Water District Santa Clara Valley W.D.
Bay checkerspot butterfly	<i>Euphydryas editha bayensis</i>	Threatened	None/None	Coastal dunes	Restricted to native grasslands on outcrops of serpentine soil in the vicinity of San Francisco Bay.	Plantago erecta is the primary host plant; orthocarpus densiflorus & o. Purpurscens are the secondary host plants.	CVP	East Bay M.U.D. Santa Clara Valley W.D.
							SWP	Santa Clara Valley W.D.
Belding's savannah sparrow	<i>Passerculus sandwichensis beldingi</i>	None	Endangered/None	Marsh and swamp	Inhabits coastal salt marshes, from Santa Barbara south through San Diego County.	Nests in salicornia on and about margins of tidal flats.	CVP	Carpinteria Valley W.D. Goleta Co. W.D. United W.C.D.
							SWP	Metropolitan Water District
Belkin's dune tabanid fly	<i>Brennania belkini</i>	None	None/None	Coastal dunes	Inhabits coastal sand dunes of southern California.	None	SWP	Metropolitan Water District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Bell's sage sparrow	<i>Amphispiza belli belli</i>	None	None/SC	Chaparral	Nests in chaparral dominated by fairly dense stands of chamise. Found in coastal sage scrub in south of range.	Nest located on the ground beneath a shrub or in a shrub 6-18 inches above ground. Territories about 50 yds apart.	SWP	Metropolitan Water District San Bernardino Valley M.W.D.
Bendire's thrasher	<i>Toxostoma bendirei</i>	None	None/SC	Joshua tree woodland	Migratory; local spring/summer resident in flat areas of desert succulent shrub/joshua tree habitats in Mojave Desert.	Nests in cholla, yucca, paloverde, thorny shrub, or small tree, usually 0.5 to 20 feet above ground.	SWP	Mojave WA-Div 2-Imp Dist M
Berkeley kangaroo rat	<i>Dipodomys heermanni berkeleyensis</i>	None	None/None	Chaparral	Open grassy hilltops & open spaces in chaparral & blue oak/digger pine woodlands.	Needs fine, deep, well-drained soil for burrowing.	CVP	East Bay M.U.D. Santa Clara Valley W.D.
							SWP	Alameda Co Fc & Wcd Zone 7 Santa Clara Valley W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
big free -tailed bat	<i>Nyctinomops macrotis</i>	None	None/SC	None	Low-lying arid areas in Southern California.	Need high cliffs or rocky outcrops for roosting sites. Feeds principally on large moths.	CVP	City of Santa Barbara W.S.A. Contra Costa W.D. East Bay M.U.D.
							SWP	Desert Water Agency Metropolitan Water District
big-eared kangaroo rat	<i>Dipodomys venustus elephantinus</i>	None	None/SC	Chaparral	Chaparral-covered slopes of the southern part of the Gabilian Range, in the vicinity of the Pinnacles.	Forages under shrubs & in the open. Burrows for cover and for nesting.	CVP	San Benito Co. W.C. & F.C. Dist.
bilobed rhyacophilan caddisfly	<i>Rhyacophila mosana</i>	None	None/None	Aquatic	Known only from Castle Crags State Park, Shasta County.	None	CVP	Shasta Co. W.A. - Castella S.A. No. 3

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
black skimmer	<i>Rynchops niger</i>	None	None/SC	Alkali playa	Nests on gravel bars, low islets, and sandy beaches, in unvegetated sites. Nesting colonies usually less than 200 pairs.	None	SWP	Alameda County Water District Coachella Valley W.D. Metropolitan Water District
black swift	<i>Cypseloides niger</i>	None	None/SC	None	Coastal belt of Santa Cruz & Monterey Co; Central & Southern Sierra Nevada; San Bernardino & San Jacinto Mountains.	Breeds in small colonies on cliffs behind or adjacent to waterfalls in deep canyons and sea-bluffs above the surf; forag	CVP	Foresthill P.U.D. Santa Clara Valley W.D.
							SWP	Desert Water Agency Santa Clara Valley W.D.
black-crowned night heron	<i>Nycticorax nycticorax</i>	None	None/None	Riparian forest	Colonial nester, usually in trees, occasionally in tule patches.	Rookery sites located adjacent to foraging areas: lake margins, mud-bordered bays, marshy spots.	CVP	East Bay M.U.D. Natomas Central M.W.C. Natomas M & I
							SWP	Alameda County Water District Coachella Valley W.D. Lost Hills W.D. Metropolitan Water District Semitropic W.S.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
black-tailed gnatcatcher	<i>Polioptila melanura</i>	None	None/None	Mojavean desert scrub	Primarily inhabits wooded desert wash habitats; also occurs in desert scrub habitat, especially in winter.	Nests in desert washes containing mesquite, paloverde, ironwood, acacia; absent from areas where salt cedar introduced.	SWP	Coachella Valley W.D. Desert Water Agency
blue chub	<i>Gila coerulea</i>	None	None/SC	Aquatic	Abundant in lakes, but found in a variety of habitats, from small streams & rivers to shallow reservoirs & deep lakes.	Most abundant in warm, quiet waters with mixed substrates. Spawn over shallow rocky areas.	CVP	Tulelake I.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
blunt-nosed leopard lizard	<i>Gambelia sila</i>	Endangered	Endangered, Fully Protected /None	Chenopod scrub	Resident of sparsely vegetated alkali and desert scrub habitats, in areas of low topographic relief.	Seeks cover in mammal burrows, under shrubs or structures such as fence posts; they do not excavate their own burrows.	CVP	Alpaugh I.D. Arvin-Edison W.S.D. Atwell Island W.D. Buena Vista W.S.D. Central California I.D. Chowchilla W.D. City of Avenal City of Coalinga Columbia Canal Co. Delano-Earlimart I.D. Gravelly Ford W.D. Kaweah Delta W.C.D. Kern-Tulare W.D. Lower Tule River I.D. Madera I.D. North Kern W.S.D. Pixley I.D. San Benito Co. W.C. & F.C. Dist. San Luis W.D. Southern San Joaquin M.U.D. Tulare I.D. Tulare Lake Basin W.S.D. Westlands Distrib. District No. 1 Westlands Distrib. District No. 2 Westlands W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
blunt-nosed leopard lizard (contd.)	<i>Gambelia sila</i> (contd.)	Endangered (contd.)	Endangered, Fully Protected /None (contd.)	Chenopod scrub (contd.)	Resident of sparsely vegetated alkali and desert scrub habitats, in areas of low topographic relief. (contd.)	Seeks cover in mammal burrows, under shrubs or structures such as fence posts; they do not excavate their own burrows. (contd.)	SWP	Belridge W.S.D. Berrenda Mesa W.D. Buena Vista W.S.D. Buttonwillow Improvement Dist. Cawelo W.D. Devils Den W.D. Dudley Ridge W.D. Hacienda W.D. Henry Miller W.D. Kern Co W.A. Improv. Dist. #4 Kern Delta W.D. Lost Hills W.D. Pond Poso Improvement District Rosedale-Rio Bravo W.S.D. Semitropic W.S.D. Tulare Lake Basin W.S.D. West Kern W.D. Wheeler Ridge-Maricopa W.S.D.
Bridges' coast range shoulderband (snail)	<i>Helminthoglypta nickliniana bridgesi</i>	None	None None	Valley and foothill grassland	Inhabits open hillsides of Alameda and Contra Costa Counties.	Tends to colonize under tall grasses and weeds.	CVP	Contra Costa W.D. East Bay M.U.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Buena Vista Lake shrew	<i>Sorex ornatus relictus</i>	Endangered	None SC	Riparian scrubs	Marshlands and riparian areas in the tulare basin.	Prefers moist soil. Uses stumps, logs and litter for cover.	CVP	Buena Vista W.S.D. North Kern W.S.D.
							SWP	Buena Vista W.S.D. Buttonwillow Improvement Dist. Henry Miller W.D. Kern Delta W.D. Semitropic W.S.D. West Kern W.D.
bull trout	<i>Salvelinus confluentus</i>	Threatened	Endangered/ None	Sacramento/san joaquin flowing waters	In California, they were found only in the McCloud river in Shasta County.	Bottom dwellers that require deep pools in cold water rivers. Need gravel riffles & large volume of cold water to spawn.	CVP	Shasta Co. W.A.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
burrowing owl	<i>Athene cunicularia</i>	None	None/SC	Coastal scrub	Open, dry annual or perennial grasslands, deserts & scrublands characterized by low-growing vegetation.	Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	CVP	4-M W.D. Alta I.D. Arvin-Edison W.S.D. Buena Vista W.S.D. Byron-Bethany I.D. Central California I.D. Central San Joaquin W.C.D. City of Avenal City of Coalinga City of Roseville W.S.A. City of Sacramento W.S.A. City of Tracy City of West Sacramento Colusa County W.D. Colusa County W.D. In County of Colusa Contra Costa W.D. Corcoran I.D. Corning W.D. Del Puerto W.D. East Bay M.U.D. Fresno I.D. Glenn-Colusa I.D. Holthouse W.D. Kaweah Delta W.C.D. Laguna I.D. Lower Tule River I.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
burrowing owl (contd.)	<i>Athene cunicularia</i> (contd.)	None (contd.)	None/SC (contd.)	Coastal scrub (contd.)	Open, dry annual or perennial grasslands, deserts & scrublands characterized by low-growing vegetation. (contd.)	Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel. (contd.)	CVP (contd.)	Madera I.D. Maine Prairie W.D. Monterey Co. Recycling Project Natomas Central M.W.C. Natomas M & I North Kern W.S.D. Orland-Artois W.D. Pajaro Valley W.M.A. Pixley I.D. Sacramento Co. Water Agency Sacramento M.U.D. San Benito Co. W.C. & F.C. Dist. San Luis W.D. Santa Clara Valley W.D. Solano I.D. South San Joaquin I.D. Southern San Joaquin M.U.D. Stinson W.D. Stockton-East W.D. The West Side I.D. Tulare Lake Basin W.S.D. Tuolumne Utilities District United W.C.D. Westlands Distrib. District No. 1 Westlands Distrib. District No. 2 Westlands W.D. Westside W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
burrowing owl (contd.)	<i>Athene cunicularia</i> (contd.)	None (contd.)	None/SC (contd.)	Coastal scrub (contd.)	Open, dry annual or perennial grasslands, deserts & scrublands characterized by low-growing vegetation. (contd.)	Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel. (contd.)	CVP (contd.)	Alameda Co FC & WCD Zone 7 Alameda County Water District Antelope Valley-East Kern W.A. Belridge W.S.D. Berrenda Mesa W.D. Buena Vista W.S.D. Buttonwillow Improvement Dist. Cawelo W.D. Coachella Valley W.D. Desert Water Agency Devils Den W.D. Henry Miller W.D. Kern Co W.A. Improv.Dist. #4 Kern Delta W.D. Lost Hills W.D. Metropolitan Water District Palmdale W.D. Rosedale-Rio Bravo W.S.D. San Bernardino Valley M.W.D. Santa Clara Valley W.D. Semitropic W.S.D. Tulare Lake Basin W.S.D. West Kern W.D. Wheeler Ridge-Maricopa W.S.D.
Busck's gallmoth	<i>Carolella busckana</i>	None	None/None	Coastal dunes	None	None	SWP	Metropolitan Water District San Bernardino Valley M.W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Button's Sierra sideband (snail)	<i>Monadenia mormonum buttoni</i>	None	None/None	Cismontane woodland	Known from the Central Sierra Nevada counties.	None	CVP	Calaveras Co. W.D. Tuolumne Utilities District
cackling (=Aleutian Canada) goose	<i>Branta hutchinsii leucopareia</i>	Delisted	None/None	Sacramento/ San Joaquin standing waters	Winters on lakes and inland prairies.	Forages on natural pasture or that cultivated to grain; loafs on lakes, reservoirs, ponds.	CVP	Fedora, Sibley G. and Margaret L. Grasslands W.D. Hale, Judith and Marks, Alice (1638) Hale, Judith and Marks, Alice (7572) Pires, Lawrence and Beverly Reclamation District No. 1004 Steidlmayer, Anthony E. et al Sycamore Family Trust
California black rail	<i>Laterallus jamaicensis coturniculus</i>	None	Threatened/None	Marsh and swamp	Inhabits freshwater marshes, wet meadows & shallow margins of saltwater marshes bordering larger bays.	Needs water depths of about 1 inch that does not fluctuate during the year & dense vegetation for nesting habitat.	CVP	Contra Costa W.D. East Bay M.U.D. Nevada I.D. Placer Co. Water Agency Zone 1 Solano I.D.
							SWP	Alameda County Water District Metropolitan Water District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
California brown pelican	<i>Pelecanus occidentalis californicus</i>	Endangered	Endangered, Fully Protected /None	None	Colonial nester on coastal islands just outside the surf line.	Nests on coastal islands of small to moderate size which afford immunity from attack by ground-dwelling predators.	CVP	United W.C.D.
							SWP	Metropolitan Water District
California clapper rail	<i>Rallus longirostris obsoletus</i>	Endangered	Endangered, Fully Protected/ None	Marsh and swamp	Salt-water & brackish marshes traversed by tidal sloughs in the vicinity of San Francisco Bay.	Associated with abundant growths of pickleweed, but feeds away from cover on invertebrates from mud-bottomed sloughs.	CVP	Contra Costa W.D. East Bay M.U.D. Pajaro Valley W.M.A. Santa Clara Valley W.D.
							SWP	Alameda County Water District San Luis Obispo County Santa Clara Valley W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
California condor	<i>Gymnogyps californianus</i>	Endangered	Endangered, Fully Protected /None	Chaparral	Require vast expanses of open savannah, grasslands, and foothill chaparral in mountain ranges of moderate altitude.	Deep canyons containing clefts in the rocky walls provide nesting sites. Forages up to 100 miles from roost/nest.	CVP	Lindsay-Strathmore I.D. United W.C.D.
							SWP	Antelope Valley-East Kern W.A. West Kern W.D.
California diplectronan caddisfly	<i>Diplectrona californica</i>	None	None/None	Aquatic	None	None	SWP	Metropolitan Water District
California floater	<i>Anodonta californiensis</i>	None	None/None	Aquatic	Freshwater lakes and slow-moving streams and rivers. Taxonomy under review by specialists.	Generally in shallow water.	CVP	Calaveras Co. W.D. Tuolumne Utilities District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
California horned lark	<i>Eremophila alpestris actia</i>	None	None/None	Meadow and seep	Coastal regions, chiefly from Sonoma Co. to San Diego Co. Also main part of San Joaquin Valley & east to foothills.	Short-grass prairie, "bald" hills, mountain meadows, open coastal plains, fallow grain fields, alkali flats.	CVP	Byron-Bethany I.D. City of Fresno Service Area Del Puerto W.D. North Kern W.S.D. San Benito Co. W.C. & F.C. Dist. San Luis W.D. United W.C.D. Westlands Distrib. District No. 1 Westlands W.D.
							SWP	Alameda Co FC & WCD Zone 7 Antelope Valley-East Kern W.A. Metropolitan Water District San Bernardino Valley M.W.D. San Gorgonio Pass Water Agency
California least tern	<i>Sterna antillarum browni</i>	Endangered	Endangered, Fully Protected /None	Alkali playa	Nests along the coast from San Francisco Bay south to Northern Baja California.	Colonial breeder on bare or sparsely vegetated, flat substrates: sand beaches, alkali flats, land fills, or paved areas.	CVP	Contra Costa W.D. East Bay M.U.D. Santa Clara Valley W.D. Santa Maria Valley W.C.D. Santa Ynez River W.C.D. United W.C.D.
							SWP	Alameda County Water District Metropolitan Water District Santa Clara Valley W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
California linderiella	<i>Linderiella occidentalis</i>	None	None/None	Vernal pool	Seasonal pools in unplowed grasslands with old alluvial soils underlain by hardpan or in sandstone depressions.	Water in the pools has very low alkalinity, conductivity, and TDS.	CVP	Anderson-Cottonwood I.D. City of Redding City of Redding - 2871 City of Roseville W.S.A. City of Sacramento W.S.A. Colusa Drain M.W.C. Contra Costa W.D. Fresno I.D. Grasslands W.D. Madera I.D. Maine Prairie W.D. Natomas Central M.W.C. Nevada I.D. Placer Co. Water Agency Zone 1 Proberta W.D. Sacramento Co. Water Agency Sacramento M.U.D. San Benito Co. W.C. & F.C. Dist. San Juan W.D. Shasta Co. W.A. Solano I.D. Stockton-East W.D.
							SWP	Alameda Co FC & WCD Zone 7

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
California mountain kingsnake (San Bernardino population)	<i>Lampropeltis zonata (parvirubra)</i>	None	None/SC	None	Bigcone spruce & chaparral at lower elev. Black oak, incense cedar, jeffrey pine & ponderosa pine at higher elevations.	Well-lit canyons with rocky outcrops or rocky talus.	SWP	San Bernardino Valley M.W.D.
California red-legged frog	<i>Rana aurora draytonii</i>	Threatened	None/SC	Marsh and swamp	Lowlands & foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation.	Requires 11–20 weeks of permanent water for larval development. Must have access to estivation habitat.	CVP	Byron-Bethany I.D. Calaveras Co. W.D. Casitas M.W.D. Contra Costa W.D. Del Puerto W.D. East Bay M.U.D. El Dorado I.D. Montecito W.D. Monterey Co. Recycling Project Nevada I.D. Pajaro Valley W.M.A. San Benito Co. W.C. & F.C. Dist. Santa Clara Valley W.D. Santa Maria Valley W.C.D. Santa Ynez River W.C.D. Tuolumne Utilities District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
California red-legged frog (contd.)	<i>Rana aurora draytonii</i> (contd.)	Threatened (contd.)	None/SC (contd.)	Marsh and swamp (contd.)	Lowlands & foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation. (contd.)	Requires 11–20 weeks of permanent water for larval development. Must have access to estivation habitat. (contd.)	SWP	Alameda Co FC & WCD Zone 7 Alameda County Water District Antelope Valley-East Kern W.A. Desert Water Agency Metropolitan Water District San Bernardino Valley M.W.D. San Luis Obispo County Santa Clara Valley W.D.
California tiger salamander	<i>Ambystoma californiense</i>	Threatened	None/SC	Meadow and seep	Central valley dps listed as threatened. Santa Barbara & Sonoma Counties DPS listed as endangered.	Need underground refuges, especially ground squirrel burrows & vernal pools or other seasonal water sources for breeding.	CVP	Alta I.D. Byron-Bethany I.D. Calaveras Co. W.D. Central San Joaquin W.C.D. Chowchilla W.D. City of Fresno Service Area City of Orange Cove Consolidated I.D. Contra Costa W.D. Dunnigan W.D. East Bay M.U.D. Fresno Co. Service Area No. 34 Fresno Co. Service Area No. 34a Fresno Co. Waterworks No. 18 Fresno I.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
California tiger salamander (contd.)	<i>Ambystoma californiense</i> (contd.)	Threatened (contd.)	None/SC (contd.)	Meadow and seep (contd.)	Central valley dps listed as threatened. Santa Barbara & Sonoma Counties DPS listed as endangered. (contd.)	Need underground refuges, especially ground squirrel burrows & vernal pools or other seasonal water sources for breeding. (contd.)	CVP (contd.)	Grasslands W.D. Hills Valley I.D. Kaweah Delta W.C.D. Madera I.D. Monterey Co. Recycling Project Oakdale I.D. Orange Cove I.D. Pajaro Valley W.M.A. Sacramento M.U.D. San Benito Co. W.C. & F.C. Dist. San Luis Canal Co. Santa Clara Valley W.D. Santa Maria Valley W.C.D. Santa Ynez River W.C.D. Solano I.D. South San Joaquin I.D. Stockton-East W.D. Tri-Valley W.D.
							SWP	Alameda Co FC & WCD Zone 7 Alameda County Water District Metropolitan Water District Santa Clara Valley W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
California wolverine	<i>Gulo gulo</i>	None	Threatened, Fully Protected /None	Alpine dwarf scrub	Found in the north coast mountains and the sierra nevada. Found in a wide variety of high elevation habitats.	Needs water source. Uses caves, logs, burrows for cover & den area. Hunts in more open areas. Can travel long distances	CVP	Tuolumne Utilities District
Casey's June Beetle	<i>Dinacoma caseyi</i>	None	None/None	Desert wash	Found only in two populations in a small area of southern Palm Springs.	Found in sandy soils; the females live underground and only come to the ground surface to mate.	SWP	Coachella Valley W.D. Desert Water Agency
Caspian tern	<i>Hydroprogne caspia</i>	None	None/None	None	Nests on sandy or gravelly beaches and shell banks in small colonies inland and along the coast.	Inland fresh-water lakes and marshes; also, brackish or salt waters of estuaries and bays.	CVP	East Bay M.U.D.
Castle Crags rhyacophilan caddisfly	<i>Rhyacophila lineata</i>	None	None/None	Aquatic	Creeks.	None	CVP	Shasta Co. W.A. - Castella S.A. No. 3

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
cheeseweed owlfly (cheeseweed moth lacewing)	<i>Oliarces clara</i>	None	None/None	Sonoran desert scrub	Inhabits the lower Colorado River drainage.	Found under rocks or in flight over streams. <i>Larrea tridentata</i> is the suspected larval host.	SWP	Coachella Valley W.D.
chinook salmon winter run	<i>Oncorhynchus tshawytscha winter run</i>	Endangered	Endangered None	Sacramento/San Joaquin flowing waters	Sacramento river below Keswick dam. Spawns in the Sacramento river but not in tributary streams.	Requires clean, cold water over gravel beds with water temperatures between 6 & 14 c° for spawning.	CVP	Anderson-Cottonwood I.D. City of Redding City of Redding - 2871 City of Redding - Buckeye - 5272 Daniell, Harry W. Exchange Bank (C/O Nature Conservancy) Micke, Daniel and Nina Redding Rancheria Tribe Riverview Golf and Country Club Shasta Co Sa No. 25 - Keswick Shasta Co. W.A.
chuckwalla	<i>Sauromalus ater</i>	None	None/None	Mojavean desert scrub	Found in a variety of desert woodland & scrub habitats; but most often in creosote communities.	Requires large rock outcrops, boulder piles or scattered large rocks. Sandy, well-drained soil needed for nesting.	SWP	Antelope Valley-East Kern W.A.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Coachella giant sand treader cricket	<i>Macrobaenetes valgum</i>	None	None/None	Desert dunes	Known from the sand dune ridges in the vicinity of coachella valley.	Population size regulated by amount of annual rainfall; some spots favor permanent habitation where springs dampen sand.	SWP	Coachella Valley W.D. Desert Water Agency
Coachella Valley fringe-toed lizard	<i>Uma inornata</i>	Threatened	Endangered/None	Desert wash	Limited to sandy areas in the Coachella Valley, Riverside County.	Requires fine, loose, windblown sand (for burrowing), interspersed with hardpan and widely spaced desert shrubs.	SWP	Coachella Valley W.D. Desert Water Agency San Gorgonio Pass Water Agency
Coachella Valley jerusalem cricket	<i>Stenopelmatus cahuiensis</i>	None	None/None	Desert dunes	Inhabits a small segment of the sand and dune areas of the Coachella Valley, in the vicinity of Palm Springs.	Found in the large, undulating dunes piled up at the north base of Mt San Jacinto.	SWP	Coachella Valley W.D. Desert Water Agency

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Coast (California) horned lizard	<i>Phrynosoma coronatum (frontale population)</i>	None	None/SC	Chaparral	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes.	Open areas for sunning, bushes for cover, patches of loose soil for burial, & abundant supply of ants & other insects.	CVP	Contra Costa W.D. El Dorado I.D. Nevada I.D. Placer Co. Water Agency Zone 3 San Benito Co. W.C. & F.C. Dist. Santa Clara Valley W.D. Santa Maria Valley W.C.D. Santa Ynez River W.C.D. Tuolumne Utilities District
							SWP	Alameda Co FC & WCD Zone 7 Antelope Valley-East Kern W.A. Buttonwillow Improvement Dist. Metropolitan Water District Pond Poso Improvement District Santa Clara Valley W.D. Semitropic W.S.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Coast (San Diego) horned lizard	<i>Phrynosoma coronatum (blainvillii population)</i>	None	None/SC	Chaparral	Inhabits coastal sage scrub and chaparral in arid and semi-arid climate condition.	Prefers friable, rocky, or shallow sandy soils.	CVP	Casitas M.W.D. United W.C.D.
							SWP	Antelope Valley-East Kern W.A. Coachella Valley W.D. Crestline-Lake Arrowhead W.A. Desert Water Agency Metropolitan Water District Mojave WA-Div 2-Imp Dist M Palmdale W.D. San Bernardino Valley M.W.D. San Gorgonio Pass Water Agency Tehachapi-Cummings Co. W.D.
coast patch-nosed snake	<i>Salvadora hexalepis virgultea</i>	None	None/SC	Coastal scrub	Brushy or shrubby vegetation in Coastal Southern California.	Require small mammal burrows for refuge and overwintering sites.	SWP	Metropolitan Water District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Coast Range newt	<i>Taricha torosa torosa</i>	None	None/SC	None	Coastal drainages from Mendocino County to San Diego County.	Lives in terrestrial habitats & will migrate over 1 km to breed in ponds, reservoirs & slow moving streams.	CVP	San Benito Co. W.C. & F.C. Dist.
							SWP	Metropolitan Water District
coastal cactus wren	<i>Campylorhynchus brunneicapillus sandiegensis</i>	None	None/SC	Coastal scrub	Southern California coastal sage scrub.	Wrens require tall opuntia cactus for nesting and roosting.	SWP	Metropolitan Water District
coastal California gnatcatcher	<i>Polioptila californica californica</i>	Threatened	None/SC	Coastal bluff scrub	Obligate, permanent resident of coastal sage scrub below 2,500 ft in Southern California.	Low, coastal sage scrub in arid washes, on mesas & slopes. Not all areas classified as coastal sage scrub are occupied.	CVP	United W.C.D.
							SWP	Metropolitan Water District San Bernardino Valley M.W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
coastal western whiptail	<i>Aspidoscelis tigris stejnegeri</i>	None	None/None	None	Found in deserts & semiarid areas with sparse vegetation and open areas. Also found in woodland & riparian areas.	Ground may be firm soil, sandy, or rocky.	SWP	Antelope Valley-East Kern W.A. Metropolitan Water District San Gorgonio Pass Water Agency
Colorado Valley woodrat	<i>Neotoma albigula venusta</i>	None	None/None	Sonoran desert scrub	Low-lying desert areas in southeastern California. Closely associated with beaver-tail cactus & mesquite.	Intolerant of cold temps. Eats mainly succulent plants. Distribution influenced by abundance of nest building material.	SWP	Coachella Valley W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Comstock's blue butterfly	<i>Euphilotes battoides comstocki</i>	None	None/None	Valley and foothill grassland	Hostplant is eriogonum sp.	None	SWP	Tehachapi-Cummings Co. W.D.
confusion caddisfly	<i>Cryptochia shasta</i>	None	None/None	Aquatic	Creeks.	None	CVP	Shasta Co. W.A. - Castella S.A. No. 3
Conservancy fairy shrimp	<i>Branchinecta conservatio</i>	Endangered	None/None	Vernal pool	Endemic to the grasslands of the northern two-thirds of the central valley; found in large, turbid pools.	Inhabit astatic pools located in swales formed by old, braided alluvium; filled by winter/spring rains, last until june.	CVP	Glenn-Colusa I.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Cooper's hawk	<i>Accipiter cooperii</i>	None	None/none	Cismontane woodland	Woodland, chiefly of open, interrupted or marginal type.	Nest sites mainly in riparian growths of deciduous trees, as in canyon bottoms on river flood-plains; also, live oaks.	CVP	City of Sacramento W.S.A. City of Santa Barbara W.S.A. East Bay M.U.D. Sacramento Co. Water Agency San Benito Co. W.C. & F.C. Dist. Santa Clara Valley W.D. Santa Ynez R.W.C.D. Imp. District No. 1 Santa Ynez River W.C.D.
							SWP	Alameda Co FC & WCD Zone 7 Desert Water Agency Metropolitan Water District Palmdale W.D. San Bernardino Valley M.W.D. San Geronio Pass Water Agency San Luis Obispo County Santa Clara Valley W.D.
Coronado skink	<i>Eumeces skiltonianus interparietalis</i>	None	None SC	Chaparral	Grassland, chaparral, pinon-juniper & juniper sage woodland, pine-oak & pine forests in coast ranges of Southern Calif.	Prefers early successional stages or open areas. Found in rocky areas close to streams & on dry hillsides.	SWP	Metropolitan Water District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Couch's spadefoot	<i>Scaphiopus couchii</i>	None	None/SC	None	Temporary desert rainpools that last a least 7 days, with water temps > 15 c & with subterranean refuge sites close by.	An insect food base especially termites must be available.	SWP	Coachella Valley W.D.
Crissal thrasher	<i>Toxostoma crissale</i>	None	None/SC	Riparian woodlands	Resident of southeastern deserts in desert riparian and desert wash habitats.	Nests in dense vegetation along streams/ washes; mesquite, screwbean mesquite, ironwood, catclaw, acacia, arrowweed	SWP	Antelope Valley-East Kern W.A. Coachella Valley W.D. Desert Water Agency

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
curved-foot hygrotus diving beetle	<i>Hygrotus curvipes</i>	None	None/None	Aquatic	Aquatic; known only from Alameda & Contra Costa Counties.	None	CVP	Byron-Bethany I.D. Contra Costa W.D.
							SWP	Alameda Co FC & WCD Zone 7
Delhi Sands flower-loving fly	<i>Rhaphiomidas terminatus abdominalis</i>	Endangered	None/None	Interior dunes	Found only in areas of the delhi sands formation in southwestern San Bernardino & northwestern Riverside Counties.	Requires fine, sandy soils, often with wholly or partly consolidated dunes & sparse vegetation. Oviposition req. Shade.	SWP	Metropolitan Water District San Bernardino Valley M.W.D.
desert pupfish	<i>Cyprinodon macularius</i>	Endangered	Endangered/None	Artificial flowing waters	Desert ponds, springs, marshes and streams in Southern California.	Can live in salinities from fresh water to 68 ppt, can withstand temps from 9–45 c° & D.O. levels down to 0.1 ppm.	SWP	Coachella Valley W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
desert tortoise	<i>Gopherus agassizii</i>	Threatened	Threatened/None	Joshua tree woodland	Most common in desert scrub, desert wash, and joshua tree habitats; occurs in almost every desert habitat.	Require friable soil for burrow and nest construction. Creosote bush habitat with lg annual wildflower blooms preferred.	SWP	Antelope Valley-East Kern W.A. Coachella Valley W.D. Mojave WA-Div 2-Imp Dist M
Dorothy's El Segundo Dune weevil	<i>Trigonoscuta dorothea dorothea</i>	None	None/None	Coastal dunes	Coastal sand dunes in Los Angeles County.	None	SWP	Metropolitan Water District
double-crested cormorant	<i>Phalacrocorax auritus</i>	None	None/none	Riparian forest	Colonial nester on coastal cliffs, offshore islands, & along lake margins in the interior of the state.	Nests along coast on sequestered islets, usually on ground with sloping surface, or in tall trees along lake margins.	CVP	East Bay M.U.D.
							SWP	Metropolitan Water District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Doyen's trigonoscuta dune weevil	<i>Trigonoscuta sp.</i>	None	None/None	Interior dunes	Species is restricted to one dune in the Los Medanos area, south of Kettleman Station in Kings County.	Found on an open "slip-face" covering about 200 square meters of a modified, vegetated relict dune.	SWP	Dudley Ridge W.D.
Dulzura pocket mouse	<i>Chaetodipus californicus femoralis</i>	None	None/SC	Coastal scrub	Variety of habitats including coastal scrub, chaparral & grassland in San Diego Co.	Attracted to grass-chaparral edges.	CVP	Casitas M.W.D.
							SWP	Metropolitan Water District San Gorgonio Pass Water Agency
El Segundo blue butterfly	<i>Euphilotes battoides allyni</i>	Endangered	None/None	Coastal dunes	Restricted to remnant coastal dune habitat in Southern California.	Hostplant is eriogonum parvifolium; larvae feed only on the flowers and seeds; used by adults as major nectar source.	SWP	Metropolitan Water District
El Segundo Flower-loving Fly	<i>Rhaphiomidas terminatus terminatus</i>	None	None/None	None	Presumed extinct but recently discovered on Malaga Dunes, Los Angeles County.	Perched dunes.	SWP	Metropolitan Water District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
ferruginous hawk	<i>Buteo regalis</i>	None	None/none	None	Open grasslands, sagebrush flats, desert scrub, low foothills & fringes of pinyon-juniper habitats.	Eats mostly lagomorphs, ground squirrels, and mice. Population trends may follow lagomorph population cycles.	CVP	Byron-Bethany I.D. Goleta Co. W.D. Sacramento Co. Water Agency San Luis W.D. Santa Ynez River W.C.D. United W.C.D.
							SWP	Alameda Co FC & WCD Zone 7 Antelope Valley-East Kern W.A. Metropolitan Water District
flat-tailed horned lizard	<i>Phrynosoma mcallii</i>	Proposed Threatened	None/SC	Desert dunes	Restricted to desert washes and desert flats in Central Riverside, Eastern San Diego, and Imperial Counties.	Critical habitat element is fine sand, into which lizards burrow to avoid temp extremes; require veg cover and ants.	SWP	Coachella Valley W.D. Desert Water Agency

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
foothill yellow-legged frog	<i>Rana boylei</i>	None	None/SC	Aquatic	Partly-shaded, shallow streams & riffles with a rocky substrate in a variety of habitats.	Need at least some cobble-sized substrate for egg-laying. Need at least 15 weeks to attain metamorphosis.	CVP	Calaveras Co. W.D. East Bay M.U.D. Lake Berryessa Resort Imp Dist Nevada I.D. Placer Co. Water Agency Zone 3 San Benito Co. W.C. & F.C. Dist. Santa Clara Valley W.D. Shasta Co. W.A. Tuolumne Utilities District
							SWP	Alameda Co FC & WCD Zone 7 Napa Co. F.C.W.C.D. Santa Clara Valley W.D.
Fresno kangaroo rat	<i>Dipodomys nitratooides exilis</i>	Endangered	Endangered/None	Chenopod scrub	Alkali sink-open grassland habitats in Western Fresno County.	Bare alkaline clay-based soils subject to seasonal inundation, with more friable soil mounds around shrubs & grasses.	CVP	City of Fresno Service Area Fresno I.D. James I.D. Madera I.D. Westlands W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
fringed myotis	<i>Myotis thysanodes</i>	None	None/None	None	In a wide variety of habitats, optimal habitats are pinyon-juniper, valley foothill hardwood & hardwood-conifer.	Uses caves, mines, buildings or crevices for maternity colonies and roosts.	CVP	San Benito Co. W.C. & F.C. Dist.
fulvous whistling-duck	<i>Dendrocygna bicolor</i>	None	None/SC	Freshwater marsh	Fresh-water marsh.	Tule/cattail marsh.	CVP	Buena Vista W.S.D.
							SWP	Buena Vista W.S.D. Hacienda W.D. Henry Miller W.D. Kern Delta W.D. Semitropic W.S.D. West Kern W.D.
Gertsch's socialchemmis spider	<i>Socalchemmis gertschi</i>	None	None/None	Coastal scrub	Known from only 2 localities in Los Angeles County: Brentwood (type locality) and Topanga Canyon.	None	SWP	Metropolitan Water District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
giant garter snake	<i>Thamnophis gigas</i>	Threatened	Threatened/ None	Marsh and swamp	Prefers freshwater marsh and low gradient streams. Has adapted to drainage canals & irrigation ditches.	This is the most aquatic of the garter snakes in California.	CVP	Andreotti, Beverly F., et al Beckley, Ralph and Ophelia Buena Vista W.S.D. Central California I.D. Central San Joaquin W.C.D. City of Sacramento W.S.A. Columbia Canal Co. Colusa Drain M.W.C. Conaway Preservation Group, Llc Glenn-Colusa I.D. Grasslands W.D. Jansen, Peter and Sandy Laguna W.D. Lauppe, Burton and Kathryn (1289) Mclaughlin, Jack E. and Margery L. Meridian Farms Water Company Natomas Central M.W.C. Natomas M & I North Kern W.S.D. Pacific Realty Associates, L.P. (M & T Chico Ranch)

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
giant garter snake (contd.)	<i>Thamnophis gigas</i> (contd.)	Threatened (contd.)	Threatened/None (contd.)	Marsh and swamp (contd.)	Prefers freshwater marsh and low gradient streams. Has adapted to drainage canals & irrigation ditches. (contd.)	This is the most aquatic of the garter snakes in California. (contd.)	CVP	Pleasant Grove-Verona M.W.C. Reclamation District No. 108 Riverdale I.D. Sacramento Co. Water Agency San Luis Canal Co. Stinson W.D. Stockton-East W.D. Sutter M.W.C. Westside W.D. Windswept Land and Livestock Company
							SWP	Buena Vista W.S.D. Henry Miller W.D. West Kern W.D.
giant kangaroo rat	<i>Dipodomys ingens</i>	Endangered	Endangered/None	Valley and foothill grassland	Annual grasslands on the western side of the San Joaquin Valley, marginal habitat in alkali scrub.	Need level terrain & sandy loam soils for burrowing.	CVP	Buena Vista W.S.D. San Benito Co. W.C. & F.C. Dist. San Luis W.D. Westlands Distrib. District No. 1 Westlands W.D.
							SWP	Belridge W.S.D. Buena Vista W.S.D. Devils Den W.D. Dudley Ridge W.D. Henry Miller W.D. Kern Delta W.D. West Kern W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
globose dune beetle	<i>Coelus globosus</i>	None	None/None	Coastal dunes	Inhabitant of coastal sand dune habitat, from bodega head in Sonoma County south to Ensenada, Mexico.	Inhabits foredunes and sand hummocks; it burrows beneath the sand surface and is most common beneath dune vegetation.	CVP	Carpinteria Valley W.D. Casitas M.W.D. City of Santa Barbara W.S.A. Goleta Co. W.D. Pajaro Valley W.M.A. United W.C.D.
							SWP	Metropolitan Water District
golden eagle	<i>Aquila chrysaetos</i>	None	None, Fully Protected /SC	Cismontane woodland	Rolling foothills, mountain areas, sage-juniper flats, & desert.	Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.	CVP	Central California I.D. Contra Costa W.D. San Luis W.D. Santa Clara Valley W.D.
							SWP	Alameda Co FC & WCD Zone 7 Antelope Valley-East Kern W.A. Desert Water Agency Metropolitan Water District Santa Clara Valley W.D. Tehachapi-Cummings Co. W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
gray vireo	<i>Vireo vicinior</i>	None	None/SC	Chaparral	Dry chaparral; west of desert, in chamise-dominated habitat; mountains of Mojave Desert, associated with juniper & artem	Forage, nest, and sing in areas formed by a continuous growth of twigs, 1–5 ft above ground.	SWP	Antelope Valley-East Kern W.A.
great blue heron	<i>Ardea herodias</i>	None	None/None	Marsh and swamp	Colonial nester in tall trees, cliffsides, and sequestered spots on marshes.	Rookery sites in close proximity to foraging areas: marshes, lake margins, tide-flats, rivers and streams, wet meadows.	CVP	City of Sacramento W.S.A. East Bay M.U.D. Nevada I.D. Pacific Realty Associates, L.P. (M & T Chico Ranch) Sacramento Co. Water Agency San Juan W.D. Santa Clara Valley W.D.
							SWP	Alameda County Water District Coachella Valley W.D. Metropolitan Water District Santa Clara Valley W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
great egret	<i>Ardea alba</i>	None	None/None	Marsh and swamp	Colonial nester in large trees.	Rookery sites located near marshes, tide-flats, irrigated pastures, and margins of rivers and lakes.	CVP	City of Sacramento W.S.A. El Dorado I.D. Natomas Central M.W.C. Natomas M & I Pacific Realty Associates, L.P. (M & T Chico Ranch) Sacramento Co. Water Agency
							SWP	Coachella Valley W.D. Kern Delta W.D.
great gray owl	<i>Strix nebulosa</i>	None	Endangered/None	Lower montane coniferous forest	Resident of mixed conifer or red fir forest habitat, in or on edge of meadows.	Requires large diameter snags in a forest with high canopy closure, which provide a cool sub-canopy microclimate.	CVP	Tuolumne Utilities District
greater sandhill crane	<i>Grus canadensis tabida</i>	None	Threatened, Fully Protected /None	Meadow and seep	Nests in wetland habitats in northeastern California; winters in the Central Valley.	Prefers grain fields within 4 mi of a shallow body of water used as a communal roost site; irrigated pasture used as loam	CVP	Butte Valley I.D. Tulelake I.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
greenest tiger beetle	<i>Cicindela tranquebarica viridissima</i>	None	None/None	Riparian woodlands	Inhabits the woodlands adjacent to the Santa Ana River Basin.	Usually found in open spots between trees.	SWP	Metropolitan Water District
Grubbs' Cave pseudoscorpion	<i>Aphrastochthonius grubbsi</i>	None	None/None	Limestone	None	None	CVP	Calaveras Co. W.D.
gull-billed tern	<i>Gelochelidon nilotica</i>	None	None/SC	None	Only known breeding colonies in Imperial & Riverside Counties.	Nests on low, sandy islets. Known to feed on fishes at mouth of Colorado River and on grasshoppers in alfalfa fields.	SWP	Coachella Valley W.D.
Hara's Cave amphipod	<i>Stygobromus harai</i>	None	None/None	None	Central california foothills.	Mostly found in caves & mine tunnels. Also taken from a spring	CVP	Tuolumne Utilities District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
hardhead	<i>Mylopharodon conocephalus</i>	None	None/SC	Sacramento/ San Joaquin flowing waters	Low to mid- elevation streams in the Sacramento- San Joaquin drainage. Also present in the Russian River.	Clear, deep pools w/ sand- gravel-boulder bottoms & slow water velocity. Not found where exotic centrarchids predominate.	CVP	City of Fresno Service Area
Henne's eucosman moth	<i>Eucosma hennei</i>	None	None/None	Coastal dunes	Endemic to the El Segundo Dunes (type locality), Los Angeles County.	Larval foodplant is phacelia ramosissima var austrolitoralis; larvae can be found on woody stems and upper root parts.	SWP	Metropolitan Water District
Hermes copper butterfly	<i>Lycaena hermes</i>	None	None/None	Coastal scrub	Found in southern mixed chaparral & coastal sage scrub at western edge of laguna mountains.	Host plant is rhamnus crocea. Although r. crocea is widespread throughout the coast range, lycaena hermes is not.	SWP	Metropolitan Water District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
hirsute Sierra sideband (snail)	<i>Monadenia mormonum hirsuta</i>	None	None/None	Chaparral	Known only from a few basaltic outcrops in tuolumne county.	None	CVP	Tuolumne Utilities District
hoary bat	<i>Lasiurus cinereus</i>	None	None/SC	Lower montane coniferous forest	Prefers open habitats or habitat mosaics, with access to trees for cover & open areas or habitat edges for feeding.	Roosts in dense foliage of medium to large trees. Feeds primarily on moths. Requires water.	CVP	San Benito Co. W.C. & F.C. Dist.
Hom's micro-blind harvestman	<i>Microcina homi</i>	None	None/None	Ultramafic	Known only from Santa Clara County in xeric habitats.	Known only from serpentine rocks in grassland habitats.	CVP	Santa Clara Valley W.D.
							SWP	Santa Clara Valley W.D.
Hopping's blister beetle	<i>Lytta hoppingi</i>	None	None/None	None	Inhabits the foothills at the southern end of the Central Valley.	None	CVP	City of Coalinga City of Visalia Kaweah Delta W.C.D. Southern San Joaquin M.U.D.
							SWP	West Kern W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Hurd's metapogon robberfly	<i>Metapogon hurdi</i>	None	None/None	Interior dunes	Known only from antioch (dunes?) and Fresno.	None	CVP	City of Fresno Service Area Contra Costa W.D. Fresno I.D.
Icenogle's socialchemmis spider	<i>Socalchemmis icenoglei</i>	None	None/None	Coastal scrub	Known only from the type locality in the vicinity of Winchester, Riverside County.	None	SWP	Metropolitan Water District
Jacumba pocket mouse	<i>Perognathus longimembris internationalis</i>	None	None/SC	Sonoran desert scrub	Desert riparian, desert scrub, desert wash, coastal scrub & sagebrush.	Rarely found on rocky sites, uses all canopy coverages.	SWP	Metropolitan Water District
Jung's micro-blind harvestman	<i>Microcina jungi</i>	None	None/None	Valley and foothill grassland	Grasslands in xeric habitats. Known only from type locality, junction of Silver Creek & San Felipe Rds, Santa Clara Co.	Found beneath serpentine rocks	CVP	Santa Clara Valley W.D.
							SWP	Santa Clara Valley W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
keeled sideband (snail)	<i>Monadenia circumcarinata</i>	None	None/None	Limestone	Endemic to the Tuolumne River Canyon, in association with steep limestone outcrops and talus slopes.	Occurs in limestone where fractures or loose talus allow deep, sub-surface sheltering.	CVP	Tuolumne Utilities District
Kern brook lamprey	<i>Lampetra hubbsi</i>	None	None/SC	Aquatic	San Joaquin River system and Kern River.	Gravel-bottomed areas for spawning and muddy-bottomed areas where ammocoetes can burrow and feed.	CVP	Delano-Earlimart I.D.
Kern River Pyrg	<i>Pyrgulopsis greggi</i>	None	None/None	Aquatic	Restricted to the grapevine creek drainage in the upper Kern River Basin.	None	SWP	Tejon-Castac W.D.
Kern shoulderband	<i>Helminthoglypta callistoderma</i>	None	None/None	Sacramento/san joaquin flowing waters	Known only from Tulare and Kern Counties, along the lower Kern River Canyon.	Has been collected from dead vegetation along the water's edge.	CVP	North Kern W.S.D.
							SWP	Kern Co W.A. Improv. Dist. #4

Table A7-1. Special-Status Wildlife Species Reported to the CNDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
King Tut Cave harvestman	<i>Banksula tutankhamen</i>	None	None/None	Limestone	Known only from the type locality, King Tut Cave, Calaveras County.	Species is troglotic.	CVP	Calaveras Co. W.D.
Klamath sideband	<i>Monadenia churchi</i>	None	None/None	Talus slope	Lives mostly in limestone outcrops, caves, talus slides, and lava rockslides, but also occurs under forest debris	None	CVP	Shasta Co. W.A.
Kneecap Lanx	<i>Lanx patelloides</i>	None	None/None	Aquatic	Endemic to Upper Sacramento River system. Breath entirely through mantle, & are very sensitive to polluted water.	Prefers fast, cold, well-oxygenated water and cobble-boulder substrate.	CVP	City of Redding City of Redding - 2871 Shasta Co Sa No. 25 - Keswick Shasta Co. W.A.
Lacey's Cave pseudoscorpion	<i>Larca laceyi</i>	None	None/None	Limestone	Caves.	None	CVP	Tuolumne Utilities District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Lahontan cutthroat trout	<i>Oncorhynchus clarkii henshawi</i>	Threatened	None/None	Aquatic	Historically in all accessible cold waters of the Lahontan Basin in a wide variety of water temps & conditions.	Cannot tolerate presence of other salmonids. Requires gravel riffles in streams for spawning.	CVP	Tuolumne Utilities District
Lange's El Segundo Dune weevil	<i>Onychobaris langei</i>	None	None/None	Coastal dunes	Known from el Segundo Dunes.	None	SWP	Metropolitan Water District
Lawrence's goldfinch	<i>Carduelis lawrencei</i>	None	None/None	Chaparral	Nests in open oak or other arid woodland & chaparral, near water. Nearby herbaceous habitats used for feeding.	Closely associated with oaks.	SWP	Metropolitan Water District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Le Conte's thrasher (San Joaquin population)	<i>Toxostoma lecontei</i>	None	None/SC	Mojavean desert scrub	Desert resident; primarily of open desert wash, desert scrub, alkali desert scrub, and desert succulent scrub habitats.	Commonly nests in a dense, spiny shrub or densely branched cactus in desert wash habitat, usually 2–8 feet above ground.	CVP	Buena Vista W.S.D. City of Coalinga Westlands W.D.
							SWP	Antelope Valley-East Kern W.A. Belridge W.S.D. Buena Vista W.S.D. Buttonwillow Improvement Dist. Coachella Valley W.D. Desert Water Agency Littlerock Creek I.D. Mojave WA-Div 2-Imp Dist M Palmdale W.D. Pond Poso Improvement District San Gorgonio Pass Water Agency Semitropic W.S.D. Tehachapi-Cummings Co. W.D. West Kern W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
least Bell's vireo	<i>Vireo bellii pusillus</i>	Endangered	Endangered/None	Riparian forest	Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2,000 ft.	Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, baccharis, mesquite.	CVP	Casitas M.W.D. San Benito Co. W.C. & F.C. Dist. Santa Clara Valley W.D. United W.C.D.
							SWP	Desert Water Agency Metropolitan Water District Mojave WA-Div 2-Imp Dist M San Bernardino Valley M.W.D. San Gorgonio Pass Water Agency Santa Clara Valley W.D.
least bittern	<i>Ixobrychus exilis</i>	None	None/SC	Marsh and swamp	Colonial nester in marshlands and borders of ponds and reservoirs which provide ample cover.	Nests usually placed low in tules, over water.	SWP	Metropolitan Water District
Leech's skyline diving beetle	<i>Hydroporus leechi</i>	None	None/None	Aquatic	Aquatic.	None	CVP	Calaveras Co. W.D.
Lee's micro-blind harvestman	<i>Microcina leei</i>	None	None/None	Valley and foothill grassland	Xeric habitats in the San Francisco Bay region.	Found beneath sandstone rocks in open oak grassland.	CVP	East Bay M.U.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
light-footed clapper rail	<i>Rallus longirostris levipes</i>	Endangered	Endangered/None	Marsh and swamp	Found in salt marshes traversed by tidal sloughs, where cordgrass and pickleweed are the dominant vegetation.	Requires dense growth of either pickleweed or cordgrass for nesting or escape cover; feeds on molluscs and crustaceans.	CVP	Carpinteria Valley W.D. Goleta Co. W.D. United W.C.D.
							SWP	Metropolitan Water District
Lodgepole chipmunk	<i>Neotamias speciosus speciosus</i>	None	None/None	Upper montane coniferous forest	Summits of isolated Piute, San Bernardino, & San Jacinto Mountains. Usually found in open-canopy forests.	Habitat is usually lodgepole pine forests in the San Bernardino Mts & Chinquapin Slopes in the San Jacinto Mts.	SWP	Crestline-Lake Arrowhead W.A. Palmdale W.D.
loggerhead shrike	<i>Lanius ludovicianus</i>	None	None/SC	Broadleaved upland forest	Broken woodlands, savannah, pinyon-juniper, joshua tree, & riparian woodlands, desert oases, scrub & washes.	Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting.	CVP	Byron-Bethany I.D. City of Avenal Contra Costa W.D. Del Puerto W.D. Westlands Distrib. District No. 1 Westlands W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
loggerhead shrike (contd.)	<i>Lanius ludovicianus</i> (contd.)	None (contd.)	None/SC (contd.)	Broadleaved upland forest (contd.)	Broken woodlands, savannah, pinyon-juniper, joshua tree, & riparian woodlands, desert oases, scrub & washes. (contd.)	Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting. (contd.)	SWP	Alameda Co FC & WCD Zone 7 Antelope Valley-East Kern W.A. Metropolitan Water District San Bernardino Valley M.W.D. West Kern W.D.
Lompoc grasshopper	<i>Trimerotropis occulens</i>	None	None/None	None	Known only from Santa Barbara and San Luis Obispo Counties.	None	CVP	Santa Ynez River W.C.D.
long-eared myotis	<i>Myotis evotis</i>	None	None/None	None	Found in all brush, woodland & forest habitats from sea level to about 9,000 ft. Prefers coniferous woodlands & forests.	Nursery colonies in buildings, crevices, spaces under bark, & snags. Caves used primarily as night roosts.	CVP	San Benito Co. W.C. & F.C. Dist.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
long-eared owl	<i>Asio otus</i>	None	None/SC	Cismontane woodland	Riparian bottomlands grown to tall willows & cottonwoods; also, belts of live oak paralleling stream courses.	Require adjacent open land productive of mice and the presence of old nests of crows, hawks, or magpies for breeding.	CVP	Nevada I.D. San Benito Co. W.C. & F.C. Dist. Santa Clara Valley W.D.
							SWP	Antelope Valley-East Kern W.A. Metropolitan Water District Santa Clara Valley W.D.
longhorn fairy shrimp	<i>Branchinecta longiantenna</i>	Endangered	None/None	Vernal pool	Endemic to the eastern margin of the Central Coast Mtns in seasonally astatic grassland vernal pools.	Inhabit small, clear-water depressions in sandstone and clear-to-turbid clay/grass-bottomed pools in shallow swales.	CVP	Grasslands W.D.
Los Angeles pocket mouse	<i>Perognathus longimembris brevinasus</i>	None	None/SC	Coastal scrub	Lower elevation grasslands & coastal sage communities in the Los Angeles Basin.	Open ground with fine sandy soils. May not dig extensive burrows, hiding under weeds & dead leaves instead.	SWP	Metropolitan Water District San Bernardino Valley M.W.D. San Gorgonio Pass Water Agency

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Lost River sucker	<i>Deltistes luxatus</i>	Endangered	Endangered, Fully Protected /None	Aquatic	Native to the lost river system in California & Oregon.	Primarily a lake species found in fairly deep water. Adults run up tributary streams to spawn in the spring.	CVP	Colonial Realty I.D. Klamath I.D. Langell I.D. Malin I.D. Tulelake I.D. Van Brimmer Ditch Co.
Lum's micro-blind harvestman	<i>Microcina lumi</i>	None	None/None	Valley and foothill grassland	Xeric habitats in San Francisco Bay Region	Beneath serpentine rocks in grassland.	CVP	East Bay M.U.D.
Martins' cave harvestman	<i>Banksula martinorum</i>	None	None/None	Limestone	Known only from the type locality, heater cave, 8 km north of Columbia.	Species is troglotic.	CVP	Calaveras Co. W.D. Tuolumne Utilities District
Melones Cave harvestman	<i>Banksula melones</i>	None	None/None	Limestone	Limestone caves in the vicinity of new melones reservoir on the Stanislaus River, Calaveras/ Tuolumne Counties.	Cave temps range from 14–16 deg c; humidity, from 82–97%. Found under rocks or wandering on floor or walls.	CVP	Calaveras Co. W.D. Tuolumne Utilities District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
merlin	<i>Falco columbarius</i>	None	None/none	None	Seacoast, tidal estuaries, open woodlands, savannahs, edges of grasslands & deserts, farms & ranches.	Clumps of trees or windbreaks are required for roosting in open country.	CVP	Westlands Distrib. District No. 1 Westlands W.D.
							SWP	Antelope Valley-East Kern W.A.
Mesa shoulderband (snail)	<i>Helminthoglypta coelata</i>	None	None/None	None	Known only from a few locations in Coastal San Diego County.	Found in rock slides, beneath bark and rotten logs, and among coastal vegetation.	SWP	Metropolitan Water District
Mexican long-tongued bat	<i>Choeronycteris mexicana</i>	None	None/SC	Sonoran thorn woodland	Occasionally found in San Diego Co., which is on the periphery of their range.	Feeds on nectar & pollen of night-blooming succulents. Roosts in relatively well-lit caves, & in & around buildings.	CVP	Casitas M.W.D.
							SWP	Metropolitan Water District
Middlekauff's shieldback katydid	<i>Idiostatus middlekauffi</i>	None	None/None	Interior dunes	Known only from antioch dunes.	None	CVP	Contra Costa W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
midvalley fairy shrimp	<i>Branchinecta mesovallensis</i>	None	None/None	Vernal pool	Vernal pools in the Central Valley.	None	CVP	Byron-Bethany I.D. City of Sacramento W.S.A. Maine Prairie W.D. Sacramento Co. Water Agency Stockton-East W.D.
mimic tryonia (=California brackishwater snail)	<i>Tryonia imitator</i>	None	None/None	Brackish marsh	Inhabits coastal lagoons, estuaries and salt marshes, from Sonoma County south to San Diego County.	Found only in permanently submerged areas in a variety of sediment types; able to withstand a wide range of salinities.	CVP	East Bay M.U.D. Goleta Co. W.D. Monterey Co. Recycling Project Pajaro Valley W.M.A. Santa Clara Valley W.D. United W.C.D.
							SWP	Metropolitan Water District Santa Clara Valley W.D.
moestan blister beetle	<i>Lytta moesta</i>	None	None/None	Valley and foothill grassland	Central california.	None	CVP	Arvin-Edison W.S.D. Fresno Co. Waterworks No. 18 Madera I.D. South San Joaquin I.D. West Stanislaus I.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Mohave ground squirrel	<i>Spermophilus mohavensis</i>	None	Threatened/ None	Chenopod scrub	Open desert scrub, alkali scrub & joshua tree woodland. Also feeds in annual grasslands. Restricted to Mojave Desert.	Prefers sandy to gravelly soils, avoids rocky areas. Uses burrows at base of shrubs for cover. Nests are in burrows.	SWP	Antelope Valley-East Kern W.A. Littlerock Creek I.D. Palmdale W.D.
Mohave tui chub	<i>Gila bicolor mohavensis</i>	Endangered	Endangered, Fully Protected /None	Artificial flowing waters	Endemic to the mojave river basin, adapted to alkaline, mineralized waters.	Needs deep pools, ponds, or slough-like areas. Needs vegetation for spawning.	SWP	Metropolitan Water District
molestan blister beetle	<i>Lytta molesta</i>	None	None/None	Wetland	Inhabits the Central Valley of California, from Contra Costa to Kern and Tulare Counties.	None	CVP	City of Fresno Service Area City of Orange Cove Fresno I.D. Lindsay-Strathmore I.D. Madera I.D. Orange Cove I.D. Southern San Joaquin M.U.D. Westlands Distrib. District No. 1 Westlands W.D.
							SWP	Lost Hills W.D. Pond Poso Improvement District Semitropic W.S.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
monarch butterfly	<i>Danaus plexippus</i>	None	None/None	Closed-cone coniferous forest	Winter roost sites extend along the coast from northern Mendocino to Baja California, Mexico.	Roosts located in wind-protected tree groves (eucalyptus, monterey pine, cypress), with nectar and water sources nearby.	CVP	Carpinteria Valley W.D. Casitas M.W.D. City of Santa Barbara W.S.A. East Bay M.U.D. Goleta Co. W.D. Montecito W.D. Monterey Co. Recycling Project Pajaro Valley W.M.A. Santa Maria Valley W.C.D. Santa Ynez River W.C.D. Solano I.D. United W.C.D.
							SWP	Alameda County Water District Kern Co W.A. Improv.Dist. #4 Metropolitan Water District
Monterey dusky-footed woodrat	<i>Neotoma macrotis luciana</i>	None	None SC	Broadleaved upland forest	Forest habitats of moderate canopy and moderate to dense understory. Also in chaparral habitats.	Nests constructed of grass, leaves, sticks, feathers, etc. Population may be limited by availability of nest materials	CVP	San Benito Co. W.C. & F.C. Dist.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Moody's gnaphosid spider	<i>Talanites moodyae</i>	None	None/None	Ultramafic	Serpentine endemic.	None	CVP	Alta I.D. Ivanhoe I.D. Kaweah Delta W.C.D. Orange Cove I.D. Stone Corral I.D.
Morongó (=Colorado) desertsnaíl	<i>Eremarionta morongoana</i>	None	None/None	Sonoran desert scrub	Known only from a gulch on the N side of Morongó Pass (type locality), San Bernardino County, near Riverside County line	Found under rocks.	SWP	Desert Water Agency
Morrison's blister beetle	<i>Lytta morrisoni</i>	None	None/None	Valley and foothill grassland	Inhabitant of the Southern Central Valley of California.	None	CVP	Arvin-Edison W.S.D. City of Coalinga Lower Tule River I.D. Pixley I.D. San Benito Co. W.C. & F.C. Dist. Tea Pot Dome W.D. Vandalia I.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Morro Bay blue butterfly	<i>Plebejus icarioides moroensis</i>	None	None/None	Coastal dunes	Inhabits stabilized dunes & adjacent areas of coastal San Luis Obispo & NW Santa Barbara Counties.	Larval foodplant thought to be <i>lupinus chamissonis</i> .	CVP	Santa Maria Valley W.C.D.
Morro Bay kangaroo rat	<i>Dipodomys heermanni morroensis</i>	Endangered	Endangered, Fully Protected /None	Coastal scrub	Coastal sage scrub on the south side of Morro Bay.	Needs sandy soil, but not active dunes, prefers early seral stages.	SWP	San Luis Obispo County
Mount Lyell salamander	<i>Hydromantes platycephalus</i>	None	None/SC	Meadow and seep	Massive rock areas in mixed conifer, red fir, lodgepole pine, and subalpine habitats, 4,000 to 11,600 feet in elevation.	Active on the surface only when free water is available, in the form of seeps, drips, or spray.	CVP	Tuolumne Utilities District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
mountain plover	<i>Charadrius montanus</i>	None	None/SC	Valley and foothill grassland	Short grasslands, freshly plowed fields, newly sprouting grain fields, & sometimes sod farms	Short vegetation, bare ground & flat topography. Prefers grazed areas & areas with burrowing rodents.	CVP	Alpaugh I.D. Central California I.D. Colusa County W.D. Colusa County W.D. In County of Colusa Lower Tule River I.D. Mercy Springs W.D. Reclamation District No. 108 San Benito Co. W.C. & F.C. Dist. Stinson W.D. Westlands W.D.
							SWP	Antelope Valley-East Kern W.A. Berrenda Mesa W.D. Lost Hills W.D. Semitropic W.S.D.
mountain yellow-legged frog	<i>Rana muscosa</i>	Endangered	None/SC	Aquatic	Federal listing refers to populations in the San Gabriel, San Jacinto & San Bernardino Mountains only.	Always encountered within a few feet of water. Tadpoles may require 2–4 yrs to complete their aquatic development.	CVP	Calaveras Co. W.D. Tuolumne Utilities District United W.C.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
mountain yellow-legged frog (contd.)	<i>Rana muscosa</i> (contd.)	Endangered (contd.)	None/SC (contd.)	Aquatic (contd.)	Federal listing refers to populations in the San Gabriel, San Jacinto & San Bernardino Mountains only. (contd.)	Always encountered within a few feet of water. Tadpoles may require 2–4 yrs to complete their aquatic development. (contd.)	SWP	Crestline-Lake Arrowhead W.A. Desert Water Agency Metropolitan Water District Palmdale W.D. San Bernardino Valley M.W.D. San Gorgonio Pass Water Agency
Music Hall Cave pseudoscorpion	<i>Pseudogarypus orpheus</i>	None	None/None	Limestone	Caves.	None	CVP	Tuolumne Utilities District
Nelson's antelope squirrel	<i>Ammospermophilus nelsoni</i>	None	Threatened/None	Chenopod scrub	Western San Joaquin Valley from 200–1,200 ft elev. On dry, sparsely vegetated loam soils.	Dig burrows or use kangaroo rat burrows. Need widely scattered shrubs, forbs & grasses in broken terrain with gullies & washes.	CVP	Buena Vista W.S.D. Central California I.D. City of Avenal City of Coalinga City of Huron W.S.A. Grasslands W.D. North Kern W.S.D. Pacheco W.D. Panoche W.D. San Benito Co. W.C. & F.C. Dist. San Luis W.D. Westlands Distrib. District No. 1 Westlands W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Nelson's antelope squirrel (contd.)	<i>Ammospermophilus nelsoni</i> (contd.)	None (contd.)	Threatened/None (contd.)	Chenopod scrub (contd.)	Western San Joaquin Valley from 200–1,200 ft elev. On dry, sparsely vegetated loam soils. (contd.)	Dig burrows or use kangaroo rat burrows. Need widely scattered shrubs, forbs & grasses in broken terrain with gullies & washes. (contd.)	SWP	Belridge W.S.D. Berrenda Mesa W.D. Buena Vista W.S.D. Buttonwillow Improvement Dist. Devils Den W.D. Dudley Ridge W.D. Hacienda W.D. Henry Miller W.D. Kern Delta W.D. Lost Hills W.D. Palmdale W.D. Pond Poso Improvement District Semitropic W.S.D. West Kern W.D. Wheeler Ridge-Maricopa W.S.D.
Nelson's bighorn sheep	<i>Ovis canadensis nelsoni</i>	None	None/None	Pinon and juniper woodlands	Widely distributed from the White Mtns in Mono Co. To the Chocolate Mts in Imperial Co.	Open, rocky, steep areas with available water and herbaceous forage.	SWP	Coachella Valley W.D. Desert Water Agency Mojave WA-Div 2-Imp Dist M Palmdale W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
northern goshawk	<i>Accipiter gentilis</i>	None	None/SC	Subalpine coniferous forest	Within, and in vicinity of, coniferous forest. Uses old nests, and maintains alternate sites.	Usually nests on north slopes, near water. Red fir, lodgepole pine, jeffrey pine, and aspens are typical nest trees.	CVP	Calaveras Co. W.D. El Dorado I.D. Nevada I.D. Tuolumne Utilities District
northern harrier	<i>Circus cyaneus</i>	None	None/SC	Coastal scrub	Coastal salt & fresh-water marsh. Nest & forage in grasslands, from salt grass in desert sink to mountain cienagas.	Nests on ground in shrubby vegetation, usually at marsh edge; nest built of a large mound of sticks in wet areas.	CVP	Byron-Bethany I.D. East Bay M.U.D. Grasslands W.D. San Luis Canal Co. San Luis W.D. Santa Clara Valley W.D.
							SWP	Alameda County Water District Metropolitan Water District Santa Clara Valley W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
northern red-diamond rattlesnake	<i>Crotalus ruber ruber</i>	None	None/SC	Chaparral	Chaparral, woodland, grassland, & desert areas from Coastal San Diego County to the Eastern Slopes of the mountains.	Occurs in rocky areas & dense vegetation. Needs rodent burrows, cracks in rocks or surface cover objects.	SWP	Coachella Valley W.D. Desert Water Agency Metropolitan Water District Mojave WA-Div 2-Imp Dist M San Gorgonio Pass Water Agency
northwestern pond turtle	<i>Emys (=Clemmys) marmorata marmorata</i>	None	None/SC	Sacramento/ San Joaquin flowing waters	Associated with permanent or nearly permanent water in a wide variety of habitats.	Requires basking sites. Nests sites may be found up to 0.5 km from water.	CVP	City of Sacramento W.S.A. Contra Costa W.D. El Dorado I.D. Nevada I.D. Redwood Valley County W.D. Sacramento Co. Water Agency Sacramento M.U.D. San Benito Co. W.C. & F.C. Dist. San Juan W.D. Shasta Co. W.A. Solano I.D. Tuolumne Utilities District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
northwestern San Diego pocket mouse	<i>Chaetodipus fallax fallax</i>	None	None/SC	Coastal scrub	Coastal scrub, chaparral, grasslands, sagebrush, etc. In western San Diego Co.	Sandy, herbaceous areas, usually in association with rocks or coarse gravel.	SWP	Coachella Valley W.D. Desert Water Agency Metropolitan Water District San Bernardino Valley M.W.D. San Geronio Pass Water Agency
Nugget Pebblesnail	<i>Fluminicola seminalis</i>	None	None/None	Aquatic	Originally from near mouth of the Sacramento River upstream into the pit river. Now extirpated from the Sacramento River	None	CVP	Shasta Co. W.A.
Opler's longhorn moth	<i>Adela oplerella</i>	None	None/None	Valley and foothill grassland	From Marin Co & the Oakland area on the inner coast ranges south to Santa Clara Co. One record from Santa Cruz Co.	All but Santa Cruz site is on serpentine grassland. Larve feed on platystemon californicus.	CVP	Santa Clara Valley W.D.
							SWP	Santa Clara Valley W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
orange-throated whiptail	<i>Aspidoscelis hyperythra</i>	None	None/SC	Chaparral	Inhabits low-elevation coastal scrub, chaparral, and valley-foothill hardwood habitats.	Prefers washes & other sandy areas with patches of brush & rocks. Perennial plants necessary for its major food-termites.	SWP	Desert Water Agency Metropolitan Water District San Bernardino Valley M.W.D. San Gorgonio Pass Water Agency
Oso Flaco flightless moth	<i>Areniscythis brachypteris</i>	None	None/None	Coastal dunes	Open, coastal sand dune slopes in San Luis Obispo County.	Larvae live in tubes attached to buried, green parts of plants at the margin of the active, moving sand dunes.	CVP	Santa Maria Valley W.C.D.
Oso Flaco patch butterfly	<i>Chlosyne leanira elegans</i>	None	None/None	Coastal dunes	Sand dune habitat around Oso Flaco Lake, San Luis Obispo County.	Distribution corresponds to its foodplant, castilleja affinis.	CVP	Santa Maria Valley W.C.D.
Oso Flaco robber fly	<i>Ablautus schlingeri</i>	None	None/None	Interior dunes	Sand dunes.	None	CVP	Santa Maria Valley W.C.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
osprey	<i>Pandion haliaetus</i>	None	None/none	Riparian forest	Ocean shore, bays, fresh-water lakes, and larger streams.	Large nests built in tree-tops within 15 miles of a good fish-producing body of water.	CVP	Anderson-Cottonwood I.D. Green Valley Corporation (5210) Santa Clara Valley W.D. Shasta Co. W.A. Tuolumne Utilities District
							SWP	Metropolitan Water District Santa Clara Valley W.D.
Pacific fisher	<i>Martes pennanti (pacifica) DPS</i>	Candidate	None/SC	North coast coniferous forest	Intermediate to large-tree stages of coniferous forests & deciduous-riparian areas w/ high percent canopy closure.	Use cavities, snags, logs & rocky areas for cover & denning. Need large areas of mature, dense forest.	CVP	Calaveras Co. W.D. Nevada I.D. Placer Co. Water Agency Zone 3 Shasta Co. W.A. Shasta Co. W.A. - Castella S.A. No. 3 Tuolumne Utilities District
Pacific pocket mouse	<i>Perognathus longimembris pacificus</i>	Endangered	None/SC	Coastal scrub	Inhabits the narrow coastal plains from the Mexican border north to El Segundo, Los Angeles Co.	Seems to prefer soils of fine alluvial sands near the ocean, but much remains to be learned.	SWP	Metropolitan Water District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
pallid bat	<i>Antrozous pallidus</i>	None	None/SC	Desert wash	Deserts, grasslands, shrublands, woodlands & forests. Most common in open, dry habitats with rocky areas for roosting.	Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	CVP	Alta I.D. Arvin-Edison W.S.D. Calaveras Co. W.D. Casitas M.W.D. Central San Joaquin W.C.D. City of Fresno Service Area Clear Creek C.S.D. Consolidated I.D. Contra Costa W.D. East Bay M.U.D. Kaweah Delta W.C.D. San Benito Co. W.C. & F.C. Dist. San Juan W.D. Santa Clara Valley W.D. Santa Maria Valley W.C.D. Shasta Co. W.A. Tuolumne Utilities District United W.C.D.
							SWP	Alameda Co FC & WCD Zone 7 Antelope Valley-East Kern W.A. Coachella Valley W.D. Metropolitan Water District San Bernardino Valley M.W.D. San Geronio Pass Water Agency San Luis Obispo County Santa Clara Valley W.D. Tejon-Castac W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
pallid San Diego pocket mouse	<i>Chaetodipus fallax pallidus</i>	None	None/SC	Desert wash	Desert border areas in Eastern San Diego Co. In desert wash, desert scrub, desert succulent scrub, pinyon-juniper, etc.	Sandy herbaceous areas, usually in association with rocks or coarse gravel.	SWP	Coachella Valley W.D. Desert Water Agency Mojave WA-Div 2-Imp Dist M Palmdale W.D. San Bernardino Valley M.W.D. San Gorgonio Pass Water Agency
Palm Springs pocket mouse	<i>Perognathus longimembris bangsi</i>	None	None/SC	Sonoran desert scrub	Desert riparian, desert scrub, desert wash & sagebrush habitats. Most common in creosote-dominated desert scrub.	Rarely found on rocky sites. Occurs in all canopy coverage classes.	SWP	Coachella Valley W.D. Desert Water Agency
Palm Springs round-tailed ground squirrel	<i>Spermophilus tereticaudus chlorus</i>	Candidate	None/SC	Sonoran desert scrub	Restricted to the coachella valley. Prefers desert succulent scrub, desert wash, desert scrub, alkali scrub, & levees.	Prefers open, flat, grassy areas in fine-textured, sandy soil. Density correlated with winter rainfall.	SWP	Coachella Valley W.D. Desert Water Agency San Gorgonio Pass Water Agency

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Palos Verdes blue butterfly	<i>Glaucopsyche lygdamus palosverdesensis</i>	Endangered	None/None	Coastal scrub	Restricted to the cool, fog-shrouded, seaward side of Palos Verdes Hills, Los Angeles county.	Host plant is astragalus trichopodus var. Lonchus (locoweed).	SWP	Metropolitan Water District
peninsular bighorn sheep	<i>Ovis canadensis nelsoni dps</i>	Endangered	Threatened/None	Alpine dwarf scrub	Open desert slopes below 4,000 ft elevation from San Gorgonio pass south into Mexico.	Optimal habitat includes steep walled canyons and ridges bisected by rocky or sandy washes, with available water.	SWP	Coachella Valley W.D. Desert Water Agency
Piedra harvestman	<i>Calicina piedra</i>	None	None/None	None	Known only from the type locality, 2.6 km SW of Piedra, Fresno County. Known only from the type series.	Found under unspecified type of rocks.	CVP	Alta I.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Pinnacles optioservus riffle beetle	<i>Optioservus canus</i>	None	None/None	Aquatic	Aquatic.	Found on rocks and in gravel of riffles in cool, swift, clear streams.	CVP	San Benito Co. W.C. & F.C. Dist.
Pinnacles shieldback katydid	<i>Idiostatus kathleena</i>	None	None/None	None	Known only from Pinnacles National Monument.	None	CVP	San Benito Co. W.C. & F.C. Dist.
pocketed free-tailed bat	<i>Nyctinomops femorosaccus</i>	None	None/SC	Pinon and juniper woodlands	Variety of arid areas in So. Cal.-- pine-juniper woodlands, desert scrub, palm oasis, desert wash, desert riparian, etc.	Rocky areas with high cliffs.	SWP	Coachella Valley W.D. Desert Water Agency Metropolitan Water District San Bernardino Valley M.W.D.
prairie falcon	<i>Falco mexicanus</i>	None	None/none	Great basin scrub	Inhabits dry, open terrain, either level or hilly.	Breeding sites located on cliffs. Forages far afield, even to marshlands and ocean shores.	CVP	San Benito Co. W.C. & F.C. Dist. Santa Clara Valley W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
prairie falcon (contd.)	<i>Falco mexicanus</i> (contd.)	None (contd.)	None/none (contd.)	Great basin scrub (contd.)	Inhabits dry, open terrain, either level or hilly. (contd.)	Breeding sites located on cliffs. Forages far afield, even to marshlands and ocean shores. (contd.)	SWP	Alameda Co FC & WCD Zone 7 Antelope Valley-East Kern W.A. Santa Clara Valley W.D.
purple martin	<i>Progne subis</i>	None	None/SC	Lower montane coniferous forest	Inhabits woodlands, low elevation coniferous forest of douglas-fir, ponderosa pine, & monterey pine.	Nests in old woodpecker cavities mostly, also in human-made structures. Nest often located in tall, isolated tree/snag.	CVP	City of Sacramento W.S.A.
							SWP	Metropolitan Water District San Gorgonio Pass Water Agency
quino checkerspot butterfly	<i>Euphydryas editha quino</i>	Endangered	None/None	Chaparral	Sunny openings within chaparral & coastal sage shrublands in parts of Riverside & San Diego Counties.	Hills & mesas near the coast. Need high densities of food plants plantago erecta, p. Insularis, orthocarpus purpurescens	SWP	Metropolitan Water District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Red Hills roach	<i>Lavinia symmetricus ssp. 3</i>	None	None/SC	Aquatic	Small streams near Sonora.	Found in areas with serpentine soil.	CVP	Tuolumne Utilities District
redheaded sphecid wasp	<i>Eucerceris ruficeps</i>	None	None/None	Interior dunes	Central California interior dunes.	Nest in hard-packed sand utilizing abandoned halictine bee burrows.	CVP	City of Coalinga Contra Costa W.D.
Ricksecker's water scavenger beetle	<i>Hydrochara rickseckeri</i>	None	None/None	Aquatic	Aquatic.	None	CVP	Nevada I.D. Placer Co. Water Agency Zone 1 Sacramento Co. Water Agency Solano I.D.
riparian (=San Joaquin Valley) woodrat	<i>Neotoma fuscipes riparia</i>	Endangered	None/SC	Riparian forest	Riparian areas along the San Joaquin, Stanislaus & Tuolumne Rivers.	Need areas with mix of brush & trees. Need suitable nesting sites in trees, snags or logs.	CVP	West Stanislaus I.D.
riparian brush rabbit	<i>Sylvilagus bachmani riparius</i>	Endangered	Endangered/None	Riparian forest	Riparian areas on the San Joaquin River in Northern Stanislaus County.	Dense thickets of wild rose, willows, and blackberries.	CVP	West Stanislaus I.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Riverside fairy shrimp	<i>Streptocephalus woottoni</i>	Endangered	None/None	Coastal scrub	Endemic to W Riv, Ora & Sdg Counties in areas of tectonic swales/earth slump basins in grassland & coastal sage scrub.	Inhabit seasonally astatic pools filled by winter/spring rains. Hatch in warm water later in the season.	SWP	Metropolitan Water District
rosy boa	<i>Charina trivirgata</i>	None	None/None	Chaparral	Desert & chaparral from the Coast To The Mojave & COLORado deserts. Prefers moderate to dense vegetation & rocky cover.	Habitats with a mix of brushy cover & rocky soil such as coastal canyons & hillsides, desert canyons, washes & mountains	SWP	Desert Water Agency Metropolitan Water District San Bernardino Valley M.W.D. San Gorgonio Pass Water Agency
Rude's longhorn beetle	<i>Necydalis rudei</i>	None	None/None	Coastal dunes	From sand dunes at Oso Flaco Lake.	Larvae live in root crown and lower stem area of haplopappus ericoides.	CVP	Santa Maria Valley W.C.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Sacramento anthicid beetle	<i>Anthicus sacramento</i>	None	None/None	Interior dunes	Restricted to sand dune areas of the Sacramento-San Joaquin Delta.	Inhabit sand slipfaces among bamboo and willow but may not depend on presence of these plant species.	CVP	Glenn-Colusa I.D. Shasta Co. W.A.
Sacramento perch	<i>Archoplites interruptus</i>	None	None/SC	Aquatic	Historically found in the sloughs, slow-moving rivers, and lakes of the central valley.	Prefer warm water. Aquatic vegetation is essential for young. Tolerate wide range of physico-chemical water conditions.	CVP	City of Sacramento W.S.A. Contra Costa W.D. East Bay M.U.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Sacramento splittail	<i>Pogonichthys macrolepidotus</i>	None	None/SC	Aquatic	Endemic to the lakes and rivers of the Central Valley, but now confined to the Delta, Suisun Bay & associated marshes.	Slow moving river sections, dead end sloughs. Require flooded vegetation for spawning & foraging for young.	CVP	Byrd, Anna C. and Osborne, Jane City of Sacramento W.S.A. City of West Sacramento Driver, Gregory E. Driver, John A. and Clare M. (1314) Giovannetti, B.E. Giusti, Richard J. and Sandra A. Heidrick, Mildred (1616) Heidrick, Mildred (8322) Lauppe, Burton and Kathryn (1289) Lauppe, Burton and Kathryn (1364) Lockett, William and Jean Munson, James T. and Dalmira Natomas Basin Conservancy Pleasant Grove-Verona M.W.C. Richter, Henry D. et al River Garden Farms Company Riverby Limited Sacramento River Ranch, Llc Schreiner, Joe and Cleo Siddiqui, Javed and Amna (7941) Sutter M.W.C. Tenhunfeld, Fred, Wallace Jack, et al

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Salinas harvest mouse	<i>Reithrodontomys megalotis distichlis</i>	None	None/None	Marsh and swamp	Known only from the Monterey Bay region.	Occurs in fresh and brackish water wetlands and probably in the adjacent uplands around the mouth of the salinas river.	CVP	Monterey Co. Recycling Project
saltmarsh (San Francisco) common yellowthroat	<i>Geothlypis trichas sinuosa</i>	None	None/SC	Marsh and swamp	Resident of the San Francisco Bay region, in fresh and salt water marshes.	Requires thick, continuous cover down to water surface for foraging; tall grasses, tule patches, willows for nesting.	CVP	Contra Costa W.D. East Bay M.U.D. Santa Clara Valley W.D.
							SWP	Alameda County Water District Santa Clara Valley W.D.
salt-marsh harvest mouse	<i>Reithrodontomys raviventris</i>	Endangered	Endangered, Fully Protected /None	Marsh and swamp	Only in the saline emergent wetlands of San Francisco Bay and its tributaries.	Pickleweed is primary habitat. Do not burrow, build loosely organized nests. Require higher areas for flood escape.	CVP	Contra Costa W.D. East Bay M.U.D. Santa Clara Valley W.D. Solano I.D.
							SWP	Alameda County Water District Santa Clara Valley W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
salt-marsh wandering shrew	<i>Sorex vagrans halicoetes</i>	None	None/SC	Marsh and swamp	Salt marshes of the south arm of San Francisco Bay.	Medium high marsh 6–8 ft above sea level where abundant driftwood is scattered among salicornia.	CVP	East Bay M.U.D. Santa Clara Valley W.D.
							SWP	Alameda County Water District Santa Clara Valley W.D.
San Bernardino flying squirrel	<i>Glaucomys sabrinus californicus</i>	None	None/SC	Lower montane coniferous forest	Black oak or white fir dominated woodlands between 5,200–8,500 ft in the San Bernardino and San Jacinto ranges.	Need cavities in trees/snags for nests & cover. Needs nearby water.	SWP	Crestline-Lake Arrowhead W.A.
San Bernardino kangaroo rat	<i>Dipodomys merriami parvus</i>	Endangered	None/SC	Coastal scrub	Alluvial scrub vegetation on sandy loam substrates characteristic of alluvial fans and flood plains.	Needs early to intermediate seral stages.	SWP	Metropolitan Water District San Bernardino Valley M.W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
San Bernardino ringneck snake	<i>Diadophis punctatus modestus</i>	None	None/None	None	Most common in open, relatively rocky areas. Often in somewhat moist microhabitats near intermittent streams.	Avoids moving through open or barren areas by restricting movements to areas of surface litter or herbaceous veg.	SWP	Metropolitan Water District San Bernardino Valley M.W.D.
San Bruno elfin butterfly	<i>Callophrys mossii bayensis</i>	Endangered	None/None	Valley and foothill grassland	Coastal, mountainous areas with grassy ground cover, mainly in the vicinity of San Bruno Mountain, San Mateo County.	Colonies are located on steep, north-facing slopes within the fog belt. Larval host plant is sedum spathulifolium.	CVP	Contra Costa W.D.
San Diego banded gecko	<i>Coleonyx variegatus abbotti</i>	None	None/None	Chaparral	Coastal & Cismontane Southern California.	Found in granite or rocky outcrops in coastal scrub & chaparral habitats.	SWP	Metropolitan Water District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
San Diego black-tailed jackrabbit	<i>Lepus californicus bennettii</i>	None	None/SC	Coastal scrub	Intermediate canopy stages of shrub habitats & open shrub / herbaceous & tree / herbaceous edges.	Coastal sage scrub habitats in Southern California.	SWP	Metropolitan Water District San Bernardino Valley M.W.D. San Gorgonio Pass Water Agency
San Diego desert woodrat	<i>Neotoma lepida intermedia</i>	None	None/SC	Coastal scrub	Coastal scrub of Southern California from San Diego County to San Luis Obispo County.	Moderate to dense canopies preferred. They are particularly abundant in rock outcrops & rocky cliffs & slopes.	CVP	Casitas M.W.D.
							SWP	Desert Water Agency Metropolitan Water District San Bernardino Valley M.W.D. San Gorgonio Pass Water Agency
San Diego fairy shrimp	<i>Branchinecta sandiegonensis</i>	Endangered	None/None	Coastal scrub	Endemic to San Diego and Orange County mesas.	Vernal pools.	SWP	Metropolitan Water District
San Diego ringneck snake	<i>Diadophis punctatus similis</i>	None	None/None	None	Open, fairly rocky areas. Use boards, flat rocks, woodpiles, stable talus, rotting logs & small ground holes for cover.	Prefer areas with surface litter or herbaceous vegetation. Often in somewhat moist areas near intermittent streams.	SWP	Metropolitan Water District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
San Francisco lacewing	<i>Nothochrysa californica</i>	None	None/None	None	None	None	CVP	Solano I.D.
San Gabriel Mtns slender salamander	<i>Batrachoseps gabrieli</i>	None	None/None	Talus slope	Known only from the San Gabriel Mtns. Found under rocks, wood, fern fronds & on soil at the base of talus slopes.	Most active on the surface in winter and early spring.	SWP	Crestline-Lake Arrowhead W.A. San Bernardino Valley M.W.D.
San Joaquin dune beetle	<i>Coelus gracilis</i>	None	None/None	Interior dunes	Inhabits fossil dunes along the western edge of San Joaquin Valley; extirpated from	Inhabits sites containing sandy substrates.	CVP	City of Avenal City of Coalinga Contra Costa W.D. San Benito Co. W.C. & F.C. Dist. Westlands Distrib. District No. 1 Westlands W.D.
					SWP		Dudley Ridge W.D.	

Table A7-1. Special-Status Wildlife Species Reported to the CNDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
San Joaquin kit fox	<i>Vulpes macrotis mutica</i>	Endangered	Threatened/ None	Chenopod scrub	Annual grasslands or grassy open stages with scattered shrubby vegetation.	Need loose-textured sandy soils for burrowing, and suitable prey base.	CVP	Alpaugh I.D. Alta I.D. Arvin-Edison W.S.D. Atwell Island W.D. Banta-Carbona I.D. Broadview W.D. Buena Vista W.S.D. Byron-Bethany I.D. Centinella W.D. Central California I.D. City of Avenal City of Coalinga City of Fresno Service Area City of Tracy City of Visalia Columbia Canal Co. Contra Costa W.D. Corcoran I.D. Del Puerto W.D. Delano-Earlimart I.D. East Bay M.U.D. Exeter I.D. Fresno I.D. Grasslands W.D. Gravelly Ford W.D. Heinlen M.W.C. Ivanhoe I.D. Kaweah Delta W.C.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
San Joaquin kit fox (contd.)	<i>Vulpes macrotis mutica</i> (contd.)	Endangered (contd.)	Threatened/None (contd.)	Chenopod scrub (contd.)	Annual grasslands or grassy open stages with scattered shrubby vegetation. (contd.)	Need loose-textured sandy soils for burrowing, and suitable prey base. (contd.)	CVP (contd.)	Kern-Tulare W.D. Laguna I.D. Lewis Creek W.D. Lindmore I.D. Lower Tule River I.D. North Kern W.S.D. Pacheco W.D. Panoche W.D. Patterson W.D. Pioneer Water Company Pixley I.D. Porterville I.D. Rag Gulch W.D. San Benito Co. W.C. & F.C. Dist. San Luis Canal Co. San Luis W.D. Santa Clara Valley W.D. Saucelito I.D. Shafter-Wasco I.D. Smallwood Vineyards Southern San Joaquin M.U.D. Stone Corral I.D. Stratford I.D. Strathmore P.U.D. Styro-Tek Inc. Westlands W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
San Joaquin kit fox (contd.)	<i>Vulpes macrotis mutica</i> (contd.)	Endangered (contd.)	Threatened/None (contd.)	Chenopod scrub (contd.)	Annual grasslands or grassy open stages with scattered shrubby vegetation. (contd.)	Need loose-textured sandy soils for burrowing, and suitable prey base. (contd.)	CVP (contd.)	Tea Pot Dome W.D. Terra Bella I.D. The West Side I.D. Tulare I.D. Tulare Lake Basin W.S.D. U.S.V.A. San Joaquin National Cemetery Vandalia I.D. West Stanislaus I.D. Westlands Distrib. District No. 1
							SWP	Alameda Co FC & WCD Zone 7 Antelope Valley-East Kern W.A. Belridge W.S.D. Berrenda Mesa W.D. Buena Vista W.S.D. Buttonwillow Improvement Dist. Cawelo W.D. Devils Den W.D. Dudley Ridge W.D. Hacienda W.D. Henry Miller W.D. Kern Co W.A. Improv.Dist. #4 Kern Delta W.D. Lost Hills W.D. Oak Flat W.D. Pond Poso Improvement District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
San Joaquin kit fox (contd.)	<i>Vulpes macrotis mutica</i> (contd.)	Endangered (contd.)	Threatened/None (contd.)	Chenopod scrub (contd.)	Annual grasslands or grassy open stages with scattered shrubby vegetation. (contd.)	Need loose-textured sandy soils for burrowing, and suitable prey base. (contd.)	SWO (contd.)	Rosedale-Rio Bravo W.S.D. San Luis Obispo County Santa Clara Valley W.D. Semitropic W.S.D. Tehachapi-Cummings Co. W.D. Tulare Lake Basin W.S.D. West Kern W.D. Wheeler Ridge-Maricopa W.S.D.
San Joaquin pocket mouse	<i>Perognathus inornatus inornatus</i>	None	None/None	Valley and foothill grassland	Typically found in grasslands and blue oak savannas.	Needs friable soils.	CVP	Arvin-Edison W.S.D. Buena Vista W.S.D. Byron-Bethany I.D. Central California I.D. City of Avenal City of Coalinga City of Fresno Service Area Columbia Canal Co. Contra Costa W.D. Del Puerto W.D. Delano-Earlimart I.D. Firebaugh Canal W.D. Fresno I.D. Glenn-Colusa I.D. Pixley I.D. Tarke, Stephen E. and Debra F. Westlands Distrib. District No. 1 Westlands W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
San Joaquin pocket mouse (contd.)	<i>Perognathus inornatus inornatus</i> (contd.)	None (contd.)	None/None (contd.)	Valley and foothill grassland (contd.)	Typically found in grasslands and blue oak savannas. (contd.)	Needs friable soils. (contd.)	SWP	Alameda Co FC & WCD Zone 7 Antelope Valley-East Kern W.A. Belridge W.S.D. Buena Vista W.S.D. Buttonwillow Improvement Dist. Cawelo W.D. Devils Den W.D. Lost Hills W.D. Palmdale W.D. Pond Poso Improvement District Semitropic W.S.D. Tehachapi-Cummings Co. W.D. West Kern W.D. Wheeler Ridge-Maricopa W.S.D.
San Joaquin roach	<i>Lavinia symmetricus</i> ssp. 1	None	None/SC	Aquatic	Tributaries to the San Joaquin River from the Cosumnes River south.	None	CVP	Tuolumne Utilities District
San Joaquin Tiger Beetle	<i>Cicindela tranquebarica</i> n. ssp.	None	None/None	None	Known only from Tulare and Kings Counties.	None	CVP	Pixley I.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
San Joaquin whipsnake	<i>Masticophis flagellum ruddocki</i>	None	None/SC	Valley and foothill grassland	Open, dry habitats with little or no tree cover. Found in valley grassland & saltbush scrub in the San Joaquin Valley.	Needs mammal burrows for refuge and oviposition sites.	CVP	City of Avenal City of Coalinga Contra Costa W.D. San Benito Co. W.C. & F.C. Dist. San Luis W.D. Westlands Distrib. District No. 1 Westlands W.D.
							SWP	Alameda Co FC & WCD Zone 7 Belridge W.S.D. Kern Delta W.D. Lost Hills W.D. Semitropic W.S.D. West Kern W.D.
San Pablo (Suisun and Alameda) song sparrow	<i>Melospiza melodia maxillaris and pusillula</i>	None	None/SC	Salt marsh	Resident of salt marshes along the north side of San Francisco and San Pablo Bays.	Inhabits tidal sloughs in the salicornia marshes; nests in grindelia bordering slough channels.	CVP	East Bay M.U.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
San Pablo vole	<i>Microtus californicus sanpabloensis</i>	None	None/SC	Marsh and swamp	Saltmarshes of San Pablo Creek, on the south shore of San Pablo Bay.	Constructs burrow in soft soil. Feeds on grasses, sedges and herbs. Forms a network of runways leading from the burrow.	CVP	East Bay M.U.D.
sandy beach tiger beetle	<i>Cicindela hirticollis grvida</i>	None	None/None	Coastal dunes	Inhabits areas adjacent to nonbrackish water along the coast of California from san Francisco Bay to Northern Mexico.	Clean, dry, light-colored sand in the upper zone. Subterranean larvae prefer moist sand not affected by wave action.	CVP	Carpinteria Valley W.D. Goleta Co. W.D. Santa Maria Valley W.C.D. United W.C.D.
							SWP	Metropolitan Water District San Luis Obispo County
Santa Ana speckled dace	<i>Rhinichthys osculus ssp. 3</i>	None	None/SC	Aquatic	Headwaters of the Santa Ana and San Gabriel Rivers. May be extirpated from the Los Angeles river system.	Requires permanent flowing streams with summer water temps of 17–20 c. Usually inhabit shallow cobble and gravel riffles.	SWP	Metropolitan Water District San Bernardino Valley M.W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Santa Ana sucker	<i>Catostomus santaanae</i>	Threatened	None/SC	Aquatic	Endemic to Los Angeles basin South Coastal streams.	Habitat generalists, but prefer sand-rubble-boulder bottoms, cool, clear water, & algae.	CVP	United W.C.D.
							SWP	Antelope Valley-East Kern W.A. Metropolitan Water District San Bernardino Valley M.W.D.
Santa Cruz kangaroo rat	<i>Dipodomys venustus venustus</i>	None	None/None	Chaparral	Silverleaf manzanita mixed chaparral in the Zayante Sand hills ecosystem of the Santa Cruz Mountains.	Needs soft, well-drained sand.	CVP	Pajaro Valley W.M.A. Santa Clara Valley W.D.
							SWP	Santa Clara Valley W.D.
Santa Cruz long-toed salamander	<i>Ambystoma macrodactylum croceum</i>	Endangered	Endangered, Fully Protected /None	Wetland	Wet meadows near sea level in a few restricted locales in Santa Cruz and Monterey Counties.	Aquatic larvae prefer shallow (<12 inches) water, using clumps of vegetation or debris for cover. Adults use mammal burr	CVP	Monterey Co. Recycling Project Pajaro Valley W.M.A.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Santa Monica grasshopper	<i>Trimerotropis occidentaloides</i>	None	None/None	Chaparral	Known only from the Santa Monica Mountains.	Found on bare hillsides and along dirt trails in chaparral.	SWP	Metropolitan Water District
Santa Monica shieldback katydid	<i>Aglaothorax longipennis</i>	None	None/None	Chaparral	Occur nocturnally in chaparral and canyon stream bottom vegetation, in the Santa Monica Mtns of Southern California.	Inhabit introduced iceplant and native chaparral plants.	SWP	Metropolitan Water District
Santa Rosa Plateau fairy shrimp	<i>Linderiella santarosae</i>	None	None/None	Vernal pool	Found only in the vernal pools on Santa Rosa plateau in Riverside County.	Southern basalt flow vernal pools.	SWP	Metropolitan Water District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
sharp-shinned hawk	<i>Accipiter striatus</i>	None	None/none	Riparian forest	Ponderosa pine, black oak, riparian deciduous, mixed conifer & jeffrey pine habitats. Prefers riparian areas.	North-facing slopes, with plucking perches are critical requirements. Nests usually within 275 ft of water.	CVP	Calaveras Co. W.D. San Benito Co. W.C. & F.C. Dist. Tuolumne Utilities District
							SWP	Alameda Co FC & WCD Zone 7
Shasta Chaparral	<i>Trilobopsis roperi</i>	None	None/None	None	Found within 100 meters of limestone outcroppings and talus slopes with some protective shade, or caves with shrubs.	None	CVP	Anderson-Cottonwood I.D. City of Redding City of Redding - 2871 Shasta Co. W.A.
Shasta hesperian	<i>Vespericola shasta</i>	None	None/None	Riparian forest	Primarily found in the vicinity of shasta lake, up to 915 meters elevation.	Moist bottom lands such as riparian areas, springs, seeps, marshes, and in the mouths of caves.	CVP	Shasta Co. W.A.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Shasta salamander	<i>Hydromantes shastae</i>	None	Threatened/None	Cismontane woodland	Cool, wet ravines and valleys; dominant vegetation is oak woodland or chaparral, also pine and fir; 100 to 2,550 ft elevation.	Seeks cover under surface objects such as logs, rocks, and limestone slabs or talus, near limestone fissures or caves.	CVP	Mountain Gate C.S.D. Shasta Co. W.A.
Shasta sideband (snail)	<i>Monadenia troglodytes troglodytes</i>	None	None/None	Chaparral	Associated with limestone terrain in Shasta and Siskiyou Counties. Associated with pine-oak woodlands.	None	CVP	Mountain Gate C.S.D. Shasta Co. W.A.
short-eared owl	<i>Asio flammeus</i>	None	None/SC	Great basin grassland	Found in swamp lands, both fresh and salt; lowland meadows; irrigated alfalfa fields.	Tule patches/tall grass needed for nesting/ daytime seclusion. Nests on dry ground in depression concealed in vegetation.	CVP	East Bay M.U.D. Monterey Co. Recycling Project Pajaro Valley W.M.A. Tulelake I.D. Westlands Distrib. District No. 1 Westlands W.D.
							SWP	Antelope Valley-East Kern W.A.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
shortnose sucker	<i>Chasmistes brevirostris</i>	Endangered	Endangered, Fully Protected /None	Aquatic	Native to the Klamath and Lost River Systems in California & Oregon.	Spend most of year in open waters of large lakes. They feed on plankton. Spawn in tributary streams.	CVP	Colonial Realty I.D. Klamath I.D. Langell I.D. Malin I.D. Tulelake I.D. Van Brimmer Ditch Co.
short-nosed kangaroo rat	<i>Dipodomys nitratooides brevinasus</i>	None	None/SC	Valley and foothill grassland	Western side of San Joaquin Valley in grassland and desert shrub associations, especially atriplex.	Occurs in highly alkaline soils around soda lake. Needs friable soils. Favors flat to gently sloping terrain.	CVP	Buena Vista W.S.D. City of Coalinga Westlands W.D.
							SWP	Belridge W.S.D. Buena Vista W.S.D. Henry Miller W.D. Kern Delta W.D. West Kern W.D.
Sierra Nevada red fox	<i>Vulpes vulpes necator</i>	None	Threatened/None	Alpine dwarf scrub	Found from the cascades down to the Sierra Nevada. Found in a variety of habitats from wet meadows to forested areas.	Use dense vegetation & rocky areas for cover & den sites. Prefer forests interspersed w/ meadows or alpine fell-fields.	CVP	Tuolumne Utilities District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Sierra Nevada snowshoe hare	<i>Lepus americanus taхоensis</i>	None	None/SC	Riparian woodlands	Boreal riparian areas in the Sierra Nevada.	Thickets of deciduous trees in riparian areas and thickets of young conifers.	CVP	Tuolumne Utilities District
silver-haired bat	<i>Lasionycteris noctivagans</i>	None	None/SC	Lower montane coniferous forest	Primarily a coastal & montane forest dweller feeding over streams, ponds & open brushy areas.	Roosts in hollow trees, beneath exfoliating bark, abandoned woodpecker holes & rarely under rocks. Needs drinking water.	CVP	East Bay M.U.D.
							SWP	Metropolitan Water District
silvery legless lizard	<i>Anniella pulchra pulchra</i>	None	None/SC	Coastal dunes	Sandy or loose loamy soils under sparse vegetation.	Soil moisture is essential. They prefer soils with a high moisture content.	CVP	Casitas M.W.D. City of Coalinga Columbia Canal Co. Contra Costa W.D. North Kern W.S.D. San Benito Co. W.C. & F.C. Dist. Santa Ynez River W.C.D. United W.C.D. Westlands W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
silvery legless lizard (contd.)	<i>Anniella pulchra pulchra</i> (contd.)	None (contd.)	None/SC (contd.)	Coastal dunes (contd.)	Sandy or loose loamy soils under sparse vegetation. (contd.)	Soil moisture is essential. They prefer soils with a high moisture content. (contd.)	SWP	Antelope Valley-East Kern W.A. Coachella Valley W.D. Kern Co W.A. Improv.Dist. #4 Metropolitan Water District Palmdale W.D. San Bernardino Valley M.W.D. San Gorgonio Pass Water Agency San Luis Obispo County
snowy egret	<i>Egretta thula</i>	None	None/None	Meadow and seep	Colonial nester, with nest sites situated in protected beds of dense tules.	Rookery sites situated close to foraging areas: marshes, tidal-flats, streams, wet meadows, and borders of lakes.	CVP	East Bay M.U.D. Natomas Central M.W.C. Natomas M & I
							SWP	Coachella Valley W.D. Kern Delta W.D. Lost Hills W.D. Semitropic W.S.D.
South coast marsh vole	<i>Microtus californicus stephensi</i>	None	None/SC	None	Tidal marshes in Los Angeles, Orange and Southern Ventura Counties.	None	CVP	United W.C.D.
							SWP	Metropolitan Water District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
southern California rufous-crowned sparrow	<i>Aimophila ruficeps canescens</i>	None	None/none	Coastal scrub	Resident in Southern California coastal sage scrub and sparse mixed chaparral.	Frequents relatively steep, often rocky hillsides with grass & forb patches.	SWP	Metropolitan Water District San Bernardino Valley M.W.D. San Gorgonio Pass Water Agency
southern California saltmarsh shrew	<i>Sorex ornatus salicornicus</i>	None	None/SC	Salt marsh	Coastal marshes in los angeles, Orange and Ventura Counties.	Requires dense vegetation and woody debris for cover.	CVP	United W.C.D.
							SWP	Metropolitan Water District
southern grasshopper mouse	<i>Onychomys torridus ramona</i>	None	None/SC	Chenopod scrub	Desert areas, especially scrub habitats with friable soils for digging. Prefers low to moderate shrub cover.	Feeds almost exclusively on arthropods, especially scorpions & orthopteran insects.	SWP	Antelope Valley-East Kern W.A. Metropolitan Water District San Bernardino Valley M.W.D. San Gorgonio Pass Water Agency

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
southern steelhead - southern California esu	<i>Oncorhynchus mykiss irideus</i>	Endangered	None/SC	Aquatic	Fed listing refers to pops from Santa Maria River south to southern extent of range (San Mateo Creek in San Diego Co.)	Southern steelhead likely have greater physiological tolerances to warmer water & more variable conditions.	CVP	Casitas M.W.D. Montecito W.D. Santa Ynez R.W.C.D. Imp. District No. 1 Santa Ynez River W.C.D. United W.C.D.
							SWP	Metropolitan Water District
southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	Endangered	Endangered/None	Riparian woodlands	Riparian woodlands in Southern California.	None	CVP	Santa Ynez River W.C.D.
							SWP	Coachella Valley W.D. Desert Water Agency Metropolitan Water District San Bernardino Valley M.W.D. San Gorgonio Pass Water Agency
spiny rhyacophilan caddisfly	<i>Rhyacophila spinata</i>	None	None/None	Aquatic	Rhyacophilids generally prefer cool, running water.	None	CVP	Foresthill P.U.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
spotted bat	<i>Euderma maculatum</i>	None	None/SC	None	Occupies a wide variety of habitats from arid deserts and grasslands through mixed conifer forests.	Feeds over water and along washes. Needs rock crevices in cliffs or caves for roosting.	CVP	Bella Vista W.D. Shasta Co. W.A. Tuolumne Utilities District
							SWP	Antelope Valley-East Kern W.A. Coachella Valley W.D. Metropolitan Water District
spring-run chinook salmon	<i>Oncorhynchus tshawytscha spring-run</i>	Threatened	Threatened/None	Sacramento/San Joaquin flowing waters	Adult no.S depend on pool depth & volume, amount of cover, & proximity to gravel. Water temps >27 c lethal to adults.	Federal listing refers to pops spawning in Sacramento River & tributaries.	CVP	Anderson-Cottonwood I.D. City of Redding City of Redding - 2871 City of Redding - Buckeye - 5272 Clear Creek C.S.D. Nevada I.D. Shasta Co Sa No. 25 - Keswick Shasta Co. W.A.
Steelhead - Central California Coast ESUs	<i>Oncorhynchus mykiss irideus</i>	Threatened	None/None	Aquatic	From Russian River, south to Soquel Cr & to, but not including, Pajaro river. Also San Francisco & San Pablo Bay Basins.	None	SWP	Alameda Co FC & WCD Zone 7 Alameda County Water District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
steelhead - south/central California coast esu	<i>Oncorhynchus mykiss irideus</i>	Threatened	None/None	Aquatic	Fed listing refers to runs in coastal basins from the Pajaro River South to, but not including, the Santa Maria River.	None	CVP	Pajaro Valley W.M.A. Santa Clara Valley W.D.
							SWP	Santa Clara Valley W.D.
Stephens' kangaroo rat	<i>Dipodomys stephensi</i>	Endangered	Threatened/None	Coastal scrub	Primarily annual & perennial grasslands, but also occurs in coastal scrub & sagebrush with sparse canopy cover.	Prefers buckwheat, chamise, brome grass & filaree. Will burrow into firm soil.	SWP	Metropolitan Water District San Bernardino Valley M.W.D. San Geronio Pass Water Agency
Suisun shrew	<i>Sorex ornatus sinuosus</i>	None	None/SC	Wetland	Tidal marshes of the northern shores of San Pablo and Suisun Bays.	Require dense low-lying cover and driftweed and other litter above the mean hightide line for nesting and foraging.	CVP	Solano I.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Suisun song sparrow	<i>Melospiza melodia maxillaris</i>	None	None/SC	Marsh and swamp	Resident of brackish-water marshes surrounding Suisun Bay.	Inhabits cattails, tules and other sedges, and salicornia; also known to frequent tangles bordering sloughs.	CVP	Contra Costa W.D. East Bay M.U.D. Solano I.D.
Swainson's hawk	<i>Buteo swainsoni</i>	None	Threatened/ None	Great basin grassland	Breeds in grasslands with with scattered trees, juniper-sage flats, riparian areas, savannahs, & agricultural or ranch.	Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	CVP	Alpaugh I.D. Andreotti, Beverly F., et al Baber, Jack et al Banta-Carbona I.D. Bardis, Christo D. et al (Broomieside Farms) Beckley, Ralph and Ophelia Butler, Leslie A. Butte Valley I.D. Byrd, Anna C. and Osborne, Jane Byron-Bethany I.D. Central California I.D. Central San Joaquin W.C.D. Chesney, Adona Churkin, Michael and Carol City of Roseville W.S.A. City of Sacramento W.S.A. City of Tracy City of West Sacramento

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Swainson's hawk (contd.)	<i>Buteo swainsoni</i> (contd.)	None (contd.)	Threatened/None (contd.)	Great basin grassland (contd.)	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, & agricultural or ranch. (contd.)	Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations. (contd.)	CVP (contd.)	Columbia Canal Co. Colusa County W.D. Colusa County W.D. In County of Colusa Colusa Drain M.W.C. Conaway Preservation Group, Llc Consolidated I.D. Contra Costa W.D. Corcoran I.D. Corning W.D. County of Sacramento Cummings, William S. Del Puerto W.D. Dennis Wilson Farms, Inc. (M.L. Farms) Dunnigan W.D. Feather W.D. Fedora, Sibley G. and Margaret L. Gillaspy, William F. Giovannetti, B.E. Giusti, Richard J. and Sandra A. Glenn-Colusa I.D. Grasslands W.D. Griffin, Joseph, and Prater, Sharon Heidrick, Mildred (8322) Hershey Land Company Hiatt, Thomas (Haitt Family Trust)

Table A7-1. Special-Status Wildlife Species Reported to the CNDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Swainson's hawk (contd.)	<i>Buteo swainsoni</i> (contd.)	None (contd.)	Threatened/None (contd.)	Great basin grassland (contd.)	Breeds in grasslands with with scattered trees, juniper-sage flats, riparian areas, savannahs, & agricultural or ranch. (contd.)	Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations. (contd.)	CVP (contd.)	Howald Farms, Inc. Jansen, Peter and Sandy Kanawha W.D. Kary, Carol Kaweah Delta W.C.D. Knaggs Walnut Ranches Company, L.P. Laguna I.D. Lockett, William and Jean Lomo Cold Storage and Michelli, Justin Lonon, Michael E. Lower Tule River I.D. Maine Prairie W.D. Mclaughlin, Jack E. and Margery L. Mercy Springs W.D. Meridian Farms Water Company Natomas Basin Conservancy Natomas Central M.W.C. Natomas M & I North Kern W.S.D. Obrien, Frank and Janice Orland Unit Water Users Assn. Orland-Artois W.D. Pacific Realty Associates, L.P. (M & T Chico Ranch) Panoche W.D. Patterson W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Swainson's hawk (contd,)	<i>Buteo swainsoni</i> (contd,)	None (contd,)	Threatened/None (contd,)	Great basin grassland (contd,)	Breeds in grasslands with with scattered trees, juniper-sage flats, riparian areas, savannahs, & agricultural or ranch. (contd,)	Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations. (contd,)	CVP (contd,)	Pelger M.W.C. Pixley I.D. Princeton-Codora-Glenn I.D. R and J Anderson Properties, L.P. Reclamation District No. 1004 Reclamation District No. 108 River Garden Farms Company Sacramento Co. Water Agency Sacramento River Ranch, Llc San Luis Canal Co. San Luis W.D. Schreiner, Joe and Cleo Siddiqui, Javed and Amna (2065) Siddiqui, Javed and Amna (7941) Solano I.D. South San Joaquin I.D. Steidlmayer, Anthony E. et al Stinson W.D. Stockton-East W.D. Sutter M.W.C. Sycamore Family Trust Tenhunfeld, Fred, Wallace Jack, et al The West Side I.D. Tisdale Irrigation and Drainage Company Tulare I.D. Tulelake I.D. Wakida, Tomio (1415)

Table A7-1. Special-Status Wildlife Species Reported to the CNDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Swainson's hawk (contd.)	<i>Buteo swainsoni</i> (contd.)	None (contd.)	Threatened/None (contd.)	Great basin grassland (contd.)	Breeds in grasslands with with scattered trees, juniper-sage flats, riparian areas, savannahs, & agricultural or ranch. (contd.)	Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations. (contd.)	CVP (contd.)	Wakida, Tomio (5200) Westlands Distrib. District No. 1 Westlands W.D. Willey, Edwin A. and Marjorie E. Windswept Land and Livestock Company Wirth, Marilyn Lamb
							SWP	Antelope Valley-East Kern W.A. Semitropic W.S.D.
Tehachapi pocket mouse	<i>Perognathus alticolus inexpectatus</i>	None	None/SC	Chaparral	Arid annual grassland & desert shrub communities, but also taken in fallow grain field & in Russian thistle.	Burrows for cover & nesting. Aestivates and hibernates during extreme weather. Forages on open ground & under shrubs.	SWP	Antelope Valley-East Kern W.A. Tehachapi-Cummings Co. W.D. Tejon-Castac W.D.
Tehachapi slender salamander	<i>Batrachoseps stebbinsi</i>	None	ThreatenedNone	Riparian woodlands	Valley-foothill hardwood-conifer & valley-foothill riparian in the Piute & Tehachapi Mountains of Kern County.	Prefers wet talus slopes or log-strewn hillsides with a steep, north-facing exposure.	SWP	Tehachapi-Cummings Co. W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Thorne's hairstreak	<i>Callophrys thornei</i>	None	None/None	None	Associated with the endemic tecate cypress (cupressus forbesii).	Only known from vicinity of Otay Mountain.	SWP	Metropolitan Water District
tidewater goby	<i>Eucyclogobius newberryi</i>	Endangered	None/SC	Klamath/north coast flowing waters	Brackish water habitats along the Calif Coast from agua hedionda lagoon, San Diego Co. To the mouth of the Smith River.	Found in shallow lagoons and lower stream reaches, they need fairly still but not stagnant water & high oxygen levels.	CVP	Carpinteria Valley W.D. Casitas M.W.D. City of Santa Barbara W.S.A. East Bay M.U.D. Goleta Co. W.D. Monterey Co. Recycling Project Pajaro Valley W.M.A. Santa Maria Valley W.C.D. Santa Ynez River W.C.D. United W.C.D.
							SWP	Metropolitan Water District San Luis Obispo County
tiger beetle	<i>Cicindela latesignata latesignata</i>	None	None/None	Mud shore/flats	Mudflats and beaches in Coastal Southern California.	None	SWP	Metropolitan Water District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
	<i>Cicindela senilis frosti</i>	None	None/None	Wetland	Inhabits marine shoreline, from Central California Coast South to salt marshes of San Diego. Also found at Lake Elsinore	Inhabits dark-colored mud in the lower zone and dried salt pans in the upper zone.	CVP	United W.C.D.
							SWP	Metropolitan Water District
tight coin (=Yates' snail)	<i>Ammonitella yatesi</i>	None	None/None	Limestone	Inhabits limestone caves and outcroppings; favors north-facing slopes.	Found in humus in limestone outcroppings.	CVP	Calaveras Co. W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Tipton kangaroo rat	<i>Dipodomys nitratoides nitratoides</i>	Endangered	Endangered/None	Chenopod scrub	Saltbrush scrub and sink scrub communities in the Tulare Lake Basin of the Southern San Joaquin Valley.	Needs soft friable soils which escape seasonal flooding. Digs burrows in elevated soil mounds at bases of shrubs.	CVP	Alpaugh I.D. Arvin-Edison W.S.D. Atwell Island W.D. Buena Vista W.S.D. Delano-Earlimart I.D. Heinlen M.W.C. Kaweah Delta W.C.D. Lower Tule River I.D. North Kern W.S.D. Pixley I.D. Southern San Joaquin M.U.D. Tulare Lake Basin W.S.D. Westlands Distrib. District No. 1 Westlands W.D.
							SWP	Belridge W.S.D. Buena Vista W.S.D. Buttonwillow Improvement Dist. Henry Miller W.D. Kern Co W.A. Improv.Dist. #4 Kern Delta W.D. Lost Hills W.D. Pond Poso Improvement District Rosedale-Rio Bravo W.S.D. Semitropic W.S.D. Tulare Lake Basin W.S.D. West Kern W.D. Wheeler Ridge-Maricopa W.S.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Townsend's big-eared bat	<i>Corynorhinus townsendii</i>	None	None/SC	Chaparral	Throughout California in a wide variety of habitats. Most common in mesic sites.	Roosts in the open, hanging from walls & ceilings. Roosting sites limiting. Extremely sensitive to human disturbance.	CVP	Calaveras Co. W.D. Placer Co. Water Agency Zone 1 San Benito Co. W.C. & F.C. Dist. Santa Ynez River W.C.D. Shasta Co. W.A. Tuolumne Utilities District
							SWP	Alameda Co FC & WCD Zone 7 Desert Water Agency
tricolored blackbird	<i>Agelaius tricolor</i>	None	None/SC	Marsh and swamp	Highly colonial species, most numerous in Central Valley & vicinity. Largely endemic to California.	Requires open water, protected nesting substrate, & foraging area with insect prey within a few km of the colony.	CVP	Anderson-Cottonwood I.D. Arvin-Edison W.S.D. Buena Vista W.S.D. Byron-Bethany I.D. Calaveras Co. W.D. Casitas M.W.D. Central California I.D. Churkin, Michael and Carol City of Coalinga City of Fresno Service Area City of Redding City of Redding - 2871 City of Sacramento W.S.A. City of West Sacramento Colonial Realty I.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
tricolored blackbird (contd.)	<i>Agelaius tricolor</i> (contd.)	None (contd.)	None/SC (contd.)	Marsh and swamp (contd.)	Highly colonial species, most numerous in Central Valley & vicinity. Largely endemic to California. (contd.)	Requires open water, protected nesting substrate, & foraging area with insect prey within a few km of the colony. (contd.)	CVP (contd.)	Colusa County W.D. Colusa County W.D. In County of Colusa Colusa Drain M.W.C. Conaway Preservation Group, Llc Contra Costa W.D. Corcoran I.D. Del Puerto W.D. Driver, John A. and Clare M. (1314) Driver, John A. and Clare M. (2398) Eggleston, Ronald H. and Susan I. El Dorado I.D. Fresno I.D. Giusti, Richard J. and Sandra A. Glenn-Colusa I.D. Grasslands W.D. Gravelly Ford W.D. Hale, Judith and Marks, Alice (1638) Hale, Judith and Marks, Alice (7572) Hershey Land Company Kanawha W.D. Klisy, L.L.C. Lower Tule River I.D. Maxwell I.D. Meridian Farms Water Company Munson, James T. and Dalmira Myers-Marsh M.W.C. Natomas Central M.W.C.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
tricolored blackbird (contd.)	<i>Agelaius tricolor</i> (contd.)	None (contd.)	None/SC (contd.)	Marsh and swamp (contd.)	Highly colonial species, most numerous in Central Valley & vicinity. Largely endemic to California. (contd.)	Requires open water, protected nesting substrate, & foraging area with insect prey within a few km of the colony. (contd.)	CVP (contd.)	Nevada I.D. Oakdale I.D. Odysseus Farms Partnership Orland Unit Water Users Assn. Pajaro Valley W.M.A. Patterson W.D. Pires, Lawrence and Beverly Pixley I.D. Placer Co. Water Agency Zone 1 Pleasant Grove-Verona M.W.C. Provident I.D. Provident I.D. - Willow Creek Quad-H Ranches, Inc. Reclamation District No. 1004 Reclamation District No. 108 River Garden Farms Company Riverdale I.D. Sacramento Co. Water Agency Sacramento M.U.D. San Benito Co. W.C. & F.C. Dist. San Juan W.D. San Luis Canal Co. San Luis W.D. Santa Clara Valley W.D. Shasta Co. W.A. South San Joaquin I.D. Stockton-East W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
tricolored blackbird (contd.)	<i>Agelaius tricolor</i> (contd.)	None (contd.)	None/SC (contd.)	Marsh and swamp (contd.)	Highly colonial species, most numerous in Central Valley & vicinity. Largely endemic to California. (contd.)	Requires open water, protected nesting substrate, & foraging area within a few km of the colony. (contd.)	CVP (contd.)	Sutter M.W.C. Sycamore Family Trust Tulelake I.D. Tuolumne Utilities District West Stanislaus I.D.
							SWP	Alameda Co FC & WCD Zone 7 Alameda County Water District Antelope Valley-East Kern W.A. Buena Vista W.S.D. Dudley Ridge W.D. Henry Miller W.D. Kern Delta W.D. Lost Hills W.D. Metropolitan Water District Oak Flat W.D. Palmdale W.D. Rosedale-Rio Bravo W.S.D. San Geronio Pass Water Agency Santa Clara Valley W.D. Semitropic W.S.D. Tehachapi-Cummings Co. W.D. West Kern W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Trinity Spot	<i>Punctum hannai</i>	None	None/None	Riparian forest	Uncommon localized species with a disjunct range divided between the Klamath Mountains & Sierra Nevada.	In moist leaf litter in forests, and in more areas, along streams or near seeps, springs, bogs & swamps.	CVP	Tuolumne Utilities District
Tulare grasshopper mouse	<i>Onychomys torridus tularensis</i>	None	None/SC	Chenopod scrub	Hot, arid valleys and scrub deserts in the Southern San Joaquin Valley.	Diet almost exclusively composed of arthropods, therefore needs abundant supply of insects.	CVP	Arvin-Edison W.S.D. City of Avenal San Benito Co. W.C. & F.C. Dist. Tulare Lake Basin W.S.D. Westlands Distrib. District No. 1 Westlands W.D.
							SWP	Antelope Valley-East Kern W.A. Belridge W.S.D. Buttonwillow Improvement Dist. Hacienda W.D. San Luis Obispo County Semitropic W.S.D. Tehachapi-Cummings Co. W.D. Tulare Lake Basin W.S.D. West Kern W.D. Wheeler Ridge-Maricopa W.S.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Tuolumne cave harvestman	<i>Banksula tuolumne</i>	None	None/None	Limestone	Known only from the type locality, Tuolumne Crystal Cave, Tuolumne, Tuolumne County.	Species is troglitic.	CVP	Tuolumne Utilities District
Tuolumne sideband (snail)	<i>Monadenia tuolumneana</i>	None	None/None	Limestone	Endemic to the tuolumne river canyon, in association with steep limestone outcrops and talus slopes.	Occurs in limestone where fractures or loose talus allow deep, sub-surface sheltering.	CVP	Tuolumne Utilities District
two-striped garter snake	<i>Thamnophis hammondi</i>	None	None/SC	Marsh and swamp	Coastal California from vicinity of Salinas to Northwest Baja California. From sea to about 7,000 ft elevation.	Highly aquatic, found in or near permanent fresh water. Often along streams with rocky beds and riparian growth.	CVP	San Benito Co. W.C. & F.C. Dist. United W.C.D.
							SWP	Antelope Valley-East Kern W.A. Desert Water Agency Metropolitan Water District Palmdale W.D. San Bernardino Valley M.W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
unarmored threespine stickleback	<i>Gasterosteus aculeatus williamsoni</i>	Endangered	Endangered/None	South coastal flowing waters	Weedy pools, backwaters, and among emergent vegetation at the stream edge in small Southern California streams.	Cool (<24 c), clear water with abundant vegetation.	SWP	Antelope Valley-East Kern W.A.
unsilvered fritillary	<i>Speyeria adiastrae adiastrae</i>	None	None/None	None	None	None	CVP	Santa Clara Valley W.D.
							SWP	Santa Clara Valley W.D.
valley elderberry longhorn beetle	<i>Desmocerus californicus dimorphus</i>	Threatened	None/None	Riparian scrubs	Occurs only in the central valley of California, in association with blue elderberry (<i>sambucus mexicana</i>).	Prefers to lay eggs in elderberries 2–8 inches in diameter; some preference shown for “stressed” elderberries.	CVP	Alta I.D. Anderson-Cottonwood I.D. Andreotti, Beverly F., et al Calaveras Co. W.D. Chowchilla W.D. City of Fresno Service Area City of Redding City of Redding - 2871 City of Sacramento W.S.A. City of West Sacramento Consolidated I.D. Fresno I.D. Kaweah Delta W.C.D. Kings River W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
valley elderberry longhorn beetle (contd.)	<i>Desmocerus californicus dimorphus</i> (contd.)	Threatened (contd.)	None/None (contd.)	Riparian scrubs (contd.)	Occurs only in the central valley of California, in association with blue elderberry (<i>sambucus mexicana</i>). (contd.)	Prefers to lay eggs in elderberries 2–8 inches in diameter; some preference shown for “stressed” elderberries. (contd.)	CVP (contd.)	Laguna I.D. Mclaughlin, Jack E. and Margery L. Meridian Farms Water Company North Kern W.S.D. Pacific Realty Associates, L.P. (M & T Chico Ranch) Placer Co. Water Agency Zone 1 Reclamation District No. 1004 Roberts Ditch Irrigation Company Sacramento Co. Water Agency San Juan W.D. Shasta Co. W.A. Solano I.D. South San Joaquin I.D. Stockton-East W.D. Tri-Valley W.D. Tuolumne Utilities District Vandalia I.D.
vermillion flycatcher	<i>Pyrocephalus rubinus</i>	None	None/SC	Marsh and swamp	During nesting, inhabits desert riparian adjacent to irrigated fields, irrigation ditches, pastures, & other open, mesic.	Nest in cottonwood, willow, mesquite, and other large desert riparian trees.	SWP	Coachella Valley W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
vernal pool fairy shrimp	<i>Branchinecta lynchi</i>	Threatened	None/None	Vernal pool	Endemic to the grasslands of the central valley, central coast mtns, and south coast mtns, in astatic rain-filled pools.	Inhabit small, clear-water sandstone-depression pools and grassed swale, earth slump, or basalt-flow depression pools.	CVP	Alta I.D. Anderson-Cottonwood I.D. Byron-Bethany I.D. Calaveras Co. W.D. Chowchilla W.D. City of Redding City of Redding - 2871 City of Roseville W.S.A. City of Sacramento W.S.A. City of Visalia Contra Costa W.D. Corning W.D. El Dorado I.D. Exeter I.D. Fresno Co. Service Area No. 34 Fresno I.D. Kaweah Delta W.C.D. Madera I.D. Maine Prairie W.D. Nevada I.D. Orange Cove I.D. Orland-Artois W.D. Pixley I.D. Placer Co. Water Agency Zone 1 Proberta W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
vernal pool fairy shrimp (contd.)	<i>Branchinecta lynchi</i> (contd.)	Threatened (contd.)	None/None (contd.)	Vernal pool (contd.)	Endemic to the grasslands of the central valley, central coast mtns, and south coast mtns, in astatic rain-filled pools. (contd.)	Inhabit small, clear-water sandstone-depression pools and grassed swale, earth slump, or basalt-flow depression pools. (contd.)	CVP (contd.)	Sacramento Co. Water Agency Sacramento M.U.D. San Benito Co. W.C. & F.C. Dist. San Luis Canal Co. Shasta Co. W.A. Solano I.D. Sycamore Family Trust Tea Pot Dome W.D. Thomes Creek W.D. Tulare I.D.
							SWP	Alameda Co FC & WCD Zone 7 Metropolitan Water District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
vernal pool tadpole shrimp	<i>Lepidurus packardii</i>	Endangered	None/None	Vernal pool	Inhabits vernal pools and swales in the Sacramento Valley containing clear to highly turbid water.	Pools commonly found in grass bottomed swales of unplowed grasslands. Some pools are mud-bottomed & highly turbid.	CVP	Alta I.D. Anderson-Cottonwood I.D. Bella Vista W.D. Chowchilla W.D. City of Redding City of Redding - 2871 City of Roseville W.S.A. City of Sacramento W.S.A. Contra Costa W.D. Glenn-Colusa I.D. Grasslands W.D. Kaweah Delta W.C.D. Oakdale I.D. Proberta W.D. Provident I.D. - Willow Creek Sacramento Co. Water Agency Sacramento M.U.D. San Luis Canal Co. Shasta Co. W.A. Solano I.D. Sycamore Family Trust Tuolumne Utilities District
							SWP	Alameda County Water District

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
wandering (=saltmarsh) skipper	<i>Panoquina errans</i>	None	None/None	Marsh and swamp	Southern California coastal salt marshes.	Requires moist saltgrass for larval development.	CVP	United W.C.D.
							SWP	Metropolitan Water District
Wasbauer's protodufourea bee	<i>Protodufourea wasbaueri</i>	None	None/None	None	Chaparral and desert scrub.	Nests in the ground. Oligolectic on emmenanthe sp., a plant that blooms in profusion after fires, then declines.	CVP	San Benito Co. W.C. & F.C. Dist.
western mastiff bat	<i>Eumops perotis californicus</i>	None	None/SC	Coastal scrub	Many open, semi-arid to arid habitats, including conifer & deciduous woodlands, coastal scrub, grasslands, chaparral etc.	Roosts in crevices in cliff faces, high buildings, trees & tunnels.	CVP	Alta I.D. Buena Vista W.S.D. Calaveras Co. W.D. Casitas M.W.D. City of Coalinga City of Fresno Service Area City of Visalia East Bay M.U.D. Exeter I.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
western mastiff bat (contd.)	<i>Eumops perotis californicus</i> (contd.)	None (contd.)	None/SC (contd.)	Coastal scrub (contd.)	Many open, semi-arid to arid habitats, including conifer & deciduous woodlands, coastal scrub, grasslands, chaparral etc. (contd.)	Roosts in crevices in cliff faces, high buildings, trees & tunnels. (contd.)	CVP (contd.)	Fresno I.D. Kaweah Delta W.C.D. Oakdale I.D. San Benito Co. W.C. & F.C. Dist. Tuolumne Utilities District United W.C.D. Westlands Distrib. District No. 1 Westlands W.D.
							SWP	Belridge W.S.D. Buena Vista W.S.D. Buttonwillow Improvement Dist. Coachella Valley W.D. Crestline-Lake Arrowhead W.A. Henry Miller W.D. Kern Co W.A. Improv. Dist. #4 Metropolitan Water District San Bernardino Valley M.W.D. Semitropic W.S.D. West Kern W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
western pond turtle	<i>Emys (=Clemmys) marmorata</i>	None	None/SC	Aquatic	A thoroughly aquatic turtle of ponds, marshes, rivers, streams & irrigation ditches with aquatic vegetation.	Need basking sites and suitable (sandy banks or grassy open fields) upland habitat for egg-laying.	CVP	Byron-Bethany I.D. Central California I.D. City of Sacramento W.S.A. City of Visalia Columbia Canal Co. Contra Costa W.D. East Bay M.U.D. Empire West Side W.D. Grasslands W.D. Kaweah Delta W.C.D. Oakdale I.D. Pajaro Valley W.M.A. Placer Co. Water Agency Zone 1 San Benito Co. W.C. & F.C. Dist. San Luis Canal Co. Santa Clara Valley W.D. Stratford I.D. The West Side I.D. Tri-Valley W.D. Tuolumne Utilities District
							SWP	Alameda Co FC & WCD Zone 7 Buttonwillow Improvement Dist. Empire West Side W.D. Santa Clara Valley W.D. Semitropic W.S.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
western red bat	<i>Lasiurus blossevillii</i>	None	None/None	Lower montane coniferous forest	Roosts primarily in trees, 2–40 ft above ground, from sea level up through mixed conifer forests.	Prefers habitat edges & mosaics with trees that are protected from above & open below with open areas for foraging.	CVP	San Benito Co. W.C. & F.C. Dist. Shasta Co. W.A.
							SWP	Metropolitan Water District
western small-footed myotis	<i>Myotis ciliolabrum</i>	None	None/None	None	Wide range of habitats mostly arid wooded & brushy uplands near water. Seeks cover in caves, buildings, mines & crevices.	Prefers open stands in forests and woodlands. Requires drinking water. Feeds on a wide variety of small flying insects.	CVP	San Benito Co. W.C. & F.C. Dist.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
western snowy plover	<i>Charadrius alexandrinus nivosus</i>	Threatened	None/SC	Great basin standing waters	Sandy beaches, salt pond levees & shores of large alkali lakes.	Needs sandy, gravelly or friable soils for nesting.	CVP	Alpaugh I.D. Atwell Island W.D. Buena Vista W.S.D. Carpinteria Valley W.D. Casitas M.W.D. City of Santa Barbara W.S.A. Conaway Preservation Group, Llc East Bay M.U.D. Goleta Co. W.D. Heinlen M.W.C. Monterey Co. Recycling Project Pajaro Valley W.M.A. Santa Clara Valley W.D. Santa Maria Valley W.C.D. Santa Ynez River W.C.D. Stratford I.D. Tulare Lake Basin W.S.D. United W.C.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
western snowy plover (contd.)	<i>Charadrius alexandrinus nivosus</i> (contd.)	Threatened (contd.)	None/SC (contd.)	Great basin standing waters (contd.)	Sandy beaches, salt pond levees & shores of large alkali lakes. (contd.)	Needs sandy, gravelly or friable soils for nesting. (contd.)	SWP	Alameda County Water District Antelope Valley-East Kern W.A. Buena Vista W.S.D. Buttonwillow Improvement Dist. Hacienda W.D. Henry Miller W.D. Kern Delta W.D. Lost Hills W.D. Metropolitan Water District
								Santa Clara Valley W.D. Semitropic W.S.D. Tulare Lake Basin W.S.D. West Kern W.D.
western spadefoot	<i>Spea (=Scaphiopus) hammondi</i>	None	None/SC	Cismontane woodland	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands.	Vernal pools are essential for breeding and egg-laying.	CVP	Alta I.D. Calaveras Co. W.D. Chowchilla W.D. City of Coalinga City of Fresno Service Area City of Roseville W.S.A. City of Visalia Colusa County W.D. Colusa County W.D. In County of Colusa Dunnigan W.D. Fresno Co. Waterworks No. 18 Fresno I.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District	
		Federal	State/DFG						
western spadefoot	<i>Spea (=Scaphiopus) hammondi</i>	None	None/SC	Cismontane woodland	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands.	Vernal pools are essential for breeding and egg-laying.	CVP	Grasslands W.D. Kaweah Delta W.C.D. Kern-Tulare W.D. Kirkwood W.D. Madera I.D. Orange Cove I.D. Pixley I.D. Sacramento Co. Water Agency San Benito Co. W.C. & F.C. Dist. San Juan W.D. San Luis Canal Co. Santa Maria Valley W.C.D. Santa Ynez River W.C.D. Westlands Distrib. District No. 1 Westlands W.D.	
								SWP	Alameda Co FC & WCD Zone 7 Belridge W.S.D. Cawelo W.D. Metropolitan Water District Oak Flat W.D. Rosedale-Rio Bravo W.S.D. San Geronio Pass Water Agency San Luis Obispo County
									Semitropic W.S.D. West Kern W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
western tailed frog	<i>Ascaphus truei</i>	None	None/SC	Klamath/north coast flowing waters	Occurs in montane hardwood-conifer, redwood, douglas-fir & ponderosa pine habitats.	Restricted to perennial montane streams. Tadpoles require water below 15 degrees c.	CVP	Shasta Co. W.A.
Western yellow bat	<i>Lasiurus xanthinus</i>	None	None/None	Desert wash	Found in valley foothill riparian, desert riparian, desert wash, and palm oasis habitats.	Roosts in trees, particularly palms. Forages over water and among trees.	SWP	Coachella Valley W.D. Desert Water Agency Metropolitan Water District Mojave WA-Div 2-Imp Dist M San Bernardino Valley M.W.D. San Gorgonio Pass Water Agency
western yellow-billed cuckoo	<i>Coccyzus americanus occidentalis</i>	Candidate	Endangered/None	Riparian forest	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems.	Nests in riparian jungles of willow, often mixed with cottonwoods, w/ lower story of blackberry, nettles, or wild grape.	CVP	Buena Vista W.S.D. Central California I.D. Columbia Canal Co. Fresno I.D. Glenn-Colusa I.D. Pacific Realty Associates, L.P. (M & T Chico Ranch) Reclamation District No. 1004 Roberts Ditch Irrigation Company Rubio, Exequiel and Elsa San Benito Co. W.C. & F.C. Dist. United W.C.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
western yellow-billed cuckoo (contd.)	<i>Coccyzus americanus occidentalis</i> (contd.)	Candidate (contd.)	Endangered/None (contd.)	Riparian forest (contd.)	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems. (contd.)	Nests in riparian jungles of willow, often mixed with cottonwoods, w/ lower story of blackberry, nettles, or wild grape. (contd.)	SWP	Buena Vista W.S.D. City of Yuba City W.S.A. Henry Miller W.D. Kern Delta W.D. Metropolitan Water District San Bernardino Valley M.W.D. West Kern W.D.
Westfork Shoulderband	<i>Helminthoglypta taylori</i>	None	None/None	Riparian woodlands	Vicinity of the Mojave River.	Under logs and leaves.	SWP	Crestline-Lake Arrowhead W.A.
white sand bear scarab beetle	<i>Lichnanthe albipilosa</i>	None	None/None	Coastal dunes	Inhabit coastal sand dunes of San Luis Obispo County, in the vicinity of Dune Lakes.	Found hovering close to the surface of the dunes near the lake, but some distance from the surf.	CVP	Santa Maria Valley W.C.D.
White-eared Pocket Mouse	<i>Perognathus alticolus alticolus</i>	None	None/SC	Mojavean desert scrub	Ponderosa & jeffrey pine habitats; also in mixed chaparral & sagebrush habitats in the San Bernardino Mtns.	Burrows are constructed in loose soil.	SWP	Crestline-Lake Arrowhead W.A. San Bernardino Valley M.W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
white-faced ibis	<i>Plegadis chihi</i>	None	None/SC	Wetland	Shallow fresh-water marsh.	Dense tule thickets for nesting interspersed with areas of shallow water for foraging.	CVP	Buena Vista W.S.D. Glenn-Colusa I.D. Tulare Lake Basin W.S.D.
							SWP	Antelope Valley-East Kern W.A. Buena Vista W.S.D. Coachella Valley W.D. Hacienda W.D. Henry Miller W.D. Kern Delta W.D. Lost Hills W.D. Metropolitan Water District Semitropic W.S.D. Tulare Lake Basin W.S.D. West Kern W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
white-tailed kite	<i>Elanus leucurus</i>	None	Fully Protected/None	Marsh and swamp	Rolling foothills and valley margins with scattered oaks & river bottomlands or marshes next to deciduous woodland.	Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.	CVP	Byron-Bethany I.D. City of Roseville W.S.A. City of Sacramento W.S.A. Contra Costa W.D. East Bay M.U.D. Goleta Co. W.D. North Kern W.S.D. Placer Co. Water Agency Zone 1 Sacramento Co. Water Agency San Benito Co. W.C. & F.C. Dist. San Juan W.D. Santa Clara Valley W.D. Solano I.D. Stockton-East W.D. United W.C.D. Westside W.D.
							SWP	Alameda Co FC & WCD Zone 7 Alameda County Water District Metropolitan Water District Santa Clara Valley W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
willow flycatcher	<i>Empidonax traillii</i>	None	Endangered/None	Meadow and seep	Inhabits extensive thickets of low, dense willows on edge of wet meadows, ponds, or backwaters; 2,000–8,000 ft elevation.	Requires dense willow thickets for nesting/roosting. Low, exposed branches are used for singing posts/hunting perches.	CVP	Nevada I.D. Tuolumne Utilities District
yellow rail	<i>Coturnicops noveboracensis</i>	None	None/SC	Freshwater marsh	Summer resident in eastern Sierra Nevada in Mono County.	Fresh-water marshlands.	CVP	Central California I.D.
yellow warbler	<i>Dendroica petechia brewsteri</i>	None	None/SC	Riparian woodlands	Riparian plant associations. Prefers willows, cottonwoods, aspens, sycamores, & alders for nesting & foraging.	Also nests in montane shrubbery in open conifer forests.	CVP	East Bay M.U.D. Nevada I.D.
							SWP	Desert Water Agency Metropolitan Water District Mojave WA-Div 2-Imp Dist M San Bernardino Valley M.W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
yellow-blotched salamander	<i>Ensatina eschscholtzii croceator</i>	None	None/SC	Chaparral	Forests and well-shaded canyons, as well as oak woodlands and old chaparral.	Needs surface objects, such as logs, boards, and rocks. Also needs old rodent burrows or other underground retreats.	SWP	Antelope Valley-East Kern W.A. Tehachapi-Cummings Co. W.D.
yellow-breasted chat	<i>Icteria virens</i>	None	None/SC	Riparian forest	Summer resident; inhabits riparian thickets of willow & other brushy tangles near watercourses.	Nests in low, dense riparian, consisting of willow, blackberry, wild grape; forages and nests within 10 ft of ground.	CVP	San Benito Co. W.C. & F.C. Dist. Solano I.D.
							SWP	Coachella Valley W.D. Metropolitan Water District San Bernardino Valley M.W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
yellow-headed blackbird	<i>Xanthocephalus xanthocephalus</i>	None	None/None	Marsh and swamp	Nests in freshwater emergent wetlands with dense vegetation & deep water. Often along borders of lakes or ponds.	Nests only where large insects such as odonata are abundant, nesting timed with maximum emergence of aquatic insects.	CVP	Buena Vista W.S.D. Central California I.D. East Bay M.U.D. Westlands Distrib. District No. 1 Westlands Distrib. District No. 2 Westlands W.D.
							SWP	Buena Vista W.S.D. Henry Miller W.D. Kern Delta W.D. West Kern W.D.
Yosemite toad	<i>Bufo canorus</i>	Candidate	None/SC	Meadow and seep	Vicinity of wet meadows in central high sierra, 6,400 to 11,300 feet in elevation.	Primarily montane wet meadows; also in seasonal ponds associated with lodgepole pine and subalpine conifer forest.	CVP	Tuolumne Utilities District
Yuma clapper rail	<i>Rallus longirostris yumanensis</i>	Endangered	Threatened/None	Marsh and swamp	Nests in fresh-water marshes along the Colorado River and along the south and east ends of the Salton Sea.	Prefers stands of cattails and tules dissected by narrow channels of flowing water; principle food is crayfish.	SWP	Coachella Valley W.D.

Table A7-1. Special-Status Wildlife Species Reported to the CNDDDB in the CVP/SWP Service Areas (contd.)

Common Name	Scientific Name	Listing Status		Habitat Type	General Habitat Description	Micro Habitat	Project Area	Water District
		Federal	State/DFG					
Yuma myotis	<i>Myotis yumanensis</i>	None	None/None	Upper montane coniferous forest	Optimal habitats are open forests and woodlands with sources of water over which to feed.	Distribution is closely tied to bodies of water. Maternity colonies in caves, mines, buildings or crevices.	CVP	Chowchilla W.D. El Dorado I.D. San Benito Co. W.C. & F.C. Dist. Santa Clara Valley W.D. Shasta Co. W.A.
							SWP	Alameda Co FC & WCD Zone 7 Metropolitan Water District Santa Clara Valley W.D.
Zavortink's protodufourea bee	<i>Protodufourea zavortinki</i>	None	None/None	None	None	None	SWP	West Kern W.D.
Zayante band-winged grasshopper	<i>Trimerotropis infantilis</i>	Endangered	None/None	Chaparral	Isolated sandstone deposits in the Santa Cruz Mountains (the Zayante Sand Hills ecosystem).	Mostly on sand parkland habitat but also in areas with well-developed ground cover & in sparse chaparral with grass.	SWP	Santa Clara Valley W.D.

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