

TERR-3 SPECIAL-STATUS PLANT POPULATIONS

1.0 EXECUTIVE SUMMARY

During 2001 and 2002, the review of existing information, agency consultation, vegetation community mapping, and focused special-status plant surveys were completed. Based on California Native Plant Society's (CNPS) *Electronic Inventory of Rare and Endangered Vascular Plants of California* (CNPS 2001a), CDFG's *Natural Diversity Database* (CNDDDB; CDFG 2003), USDA-FS *Regional Forester's List of Sensitive Plant and Animal Species for Region 5* (USDA-FS 1998), U.S. Fish and Wildlife Service *Species List* (USFWS 2003), and Sierra National Forest (SNF) *Sensitive Plant List* (Clines 2002), there were 100 special-status plant species initially identified as potentially occurring within the Study Area. Known occurrences of these species were mapped.

Vegetation communities were evaluated to locate areas that could potentially support special-status plant species. Each community was determined to have the potential to support at least one special-status plant species.

During the spring and summer of 2002, special-status plant surveys were conducted. For each special-status plant species or population identified, a CNDDDB form was completed, and photographs were taken. The locations were mapped and incorporated into a confidential GIS database. Vascular plant species observed during surveys were recorded.

No state or federally listed special-status plant species were identified during special-status plant surveys. Seven special-status plant species, totaling 60 populations, were identified during surveys. There were 22 populations of Mono Hot Springs evening-primrose (*Camissonia sierrae* ssp. *alticola*) identified. Two populations are located near Mammoth Pool, one at Bear Forebay, and the rest are in the Florence Lake area. There was one population of Yosemite lewisia (*Lewisia disepala*) identified in the vicinity of Mammoth Pool Dam. There were three populations of subalpine fireweed (*Epilobium howellii*) identified. One was identified as part of the Portal Project (FERC Project No. 2174) and is located near the Portal Forebay Distribution Line. The other two populations are located near the Kokanee Work Camp and on the shore of Huntington Lake. There were seven populations of short-leaved hulsea (*Hulsea brevifolia*) identified in the Balsam Meadow Forebay area. There were six populations of Yosemite evening-primrose (*Camissonia sierrae* ssp. *sierrae*) identified. Four populations are located in the Mammoth Pool area, one near Shaver Lake Dam, and one near Shakeflat Creek Trail. One population of small-flowered monkeyflower (*Mimulus inconspicuus*) was identified near Shaver Lake Dam. There were 20 populations of cut-leaved monkeyflower (*Mimulus laciniatus*) identified. Ten sites are located in the Shaver Lake area, and ten are located in the Florence Lake area.

There is the potential for 24 species to occur along bypass and flow-augmented reaches within the study area. Surveys were conducted for these species within the study area. There were populations of one species identified during special-status plant surveys (subalpine fireweed). However, surveys were not conducted along flow-augmented and bypass reaches within the study area. Instead, a habitat-based approach was used to determine potential for occurrence along these reaches. There is the potential for flaming trumpet (*Collomia rawsoniana*), subalpine fireweed, Keil's daisy (*Erigeron inornatus* var. *keillii*), Shuteye Peak fawn lily (*Erythronium pluriflorum*), field ivesia (*Ivesia campestris*), slender-stemmed monkeyflower (*Mimulus filicaulis*), pansy monkeyflower (*Mimulus pulchellus*), California beaked-rush (*Rhynchospora californica*), Bolander's clover (*Trifolium bolanderi*), Bolander's candle moss (*Bruchia bolanderi*), moss (*Meesia triquetra*), moss (*Meesia uliginosa*), Nuttall's pondweed (*Potamogeton epihydrus* ssp. *nuttallii*), prairie wedge grass (*Sphenopholis obtusata*), shore sedge (*Carex limosa*), meadow sedge (*Carex praticola*), flat-leaved bladderwort (*Utricularia intermedia*), Yosemite tarplant (*Madia yosemitana*), marsh claytoni (*Claytonia palustris*), Yosemite ivesia (*Ivesia unguiculata*), mountain phacelia (*Phacelia orogenes*), Cusick's speedwell (*Veronica cusickii*), veined water lichen (*Hydrothyria venosa*), and roundleaf sundew (*Drosera rotundifolia*) to occur within or along flow-augmented and bypass reaches within the study area.

2.0 STUDY OBJECTIVES

- Document the presence and abundance of special-status plant populations adjacent to Project facilities and Project-related recreational facilities.

3.0 STUDY IMPLEMENTATION

3.1 STUDY ELEMENTS COMPLETED

- Identified and mapped known occurrences of special-status plant species near Project facilities, recreational facilities, and bypass and flow-augmented reaches, based on agency consultation and review of existing information.
- Evaluated vegetation communities (collected as part of TERR-1, Vegetation Communities) to identify vegetation communities that could potentially support special-status plant populations.
- Conducted special-status plant surveys near most of the Project facilities and recreational facilities during spring and summer 2002. For each special-status plant species or population identified, a CNDDDB form was completed. The locations were mapped and incorporated into a confidential GIS database.

3.2 OUTSTANDING STUDY ELEMENTS

- Conduct special-status plant surveys in spring and summer 2003 at Project facilities not surveyed in 2002. A list of facilities to be surveyed in 2003 is provided in TERR-2, Invasive/Exotic Plant Species, Appendix A.
- Conduct special-status plant surveys (vascular plants and bryophytes) at selected locations along bypass and flow-augmented stream reaches. These locations will correspond to sampling sites selected by the CAWG for quantitative riparian study as part of CAWG-11, Riparian, and will be conducted during sampling for CAWG-11.

4.0 STUDY METHODOLOGY

4.1 REVIEW OF EXISTING INFORMATION

Existing documentation pertinent to the botanical resources of the Study Area was compiled, reviewed, and analyzed. This included a review of: (1) CNPS's *Electronic Inventory of Rare and Endangered Vascular Plants of California*, (CNPS 2001a; Appendix A); (2) CDFG's *Natural Diversity Database* (CNDDDB; CDFG 2003; Appendix B); (3) USDA-FS Regional Forester's *List of Sensitive Plant and Animal Species for Region 5* (USDA-FS 1998; Appendix C); (4) U.S. Fish and Wildlife Service *Species List* (USFWS 2003; Appendix D) (5) Sierra National Forest *Sensitive Plant List* (Clines 2002; Appendix E); (6) USFS's *High Sierra Ranger District Sensitive Plant Coverage* (USDA-FS 2002); (7) *High Sierra Area California Soil Survey* (USDA-FS 1995); (8) *Sierra National Forest Area California Soil Survey* (USDA-FS 1993); (9) *Sierra Nevada Forest Plan Amendment* (USDA-FS 2001); (10) information from appropriate agency representatives, such as the Sierra National Forest botanist; and (11) other information that is referenced as appropriate.

A list of special-status plant species potentially occurring in the Study Area was developed through the botanical literature review described above (Appendix F). Special-status species include species federally listed as endangered (FE) or threatened (FT); federal species of concern (FSC) and candidate species for listing (FC); species protected by the State of California as endangered (CE), threatened (CT), or rare (CR); state candidate species for listing (CC); species considered by CNPS to be "rare, threatened, or endangered in California" (Lists 1B, 2, 3, and 4 species; CNPS 2001b); and species identified by the Regional Forester as sensitive (FSS), and watch list (FSW) species in the Sierra National Forest.

Primary taxonomic references include the *Illustrated Flora of the Pacific States* (Abrams and Ferris 1960), the *Jepson Manual* (Hickman 1993), the *Manual of the Grasses of the United States* Vols. 1 and 2 (Hitchcock and Chase 1971), *A California Flora and Supplement* (Munz and Keck 1968), *Trees and Shrubs of California* (Stuart and Sawyer 2001), and *A Sierra Nevada Flora* (Weeden 1999).

4.2 EVALUATION OF VEGETATION COMMUNITIES MAPPING

Vegetation communities were identified and mapped in 2001 as part of TERR-1, Vegetation Communities. Refer to TERR-1, Vegetation Communities, for a detailed methodology. Each vegetation community was evaluated to determine if they could potentially support special-status plants. Each vegetation community within the survey area that could support at least one special-status plant species was surveyed.

4.3 SPECIAL-STATUS PLANT SURVEYS

Timing of the field surveys was determined from agency consultation, monitoring of reference sites, and evaluation of known blooming periods. A list of species used for the evaluation of known blooming periods was formed through agency consultation with the Sierra National Forest Botanist, Joanna Clines, and approved by the Terrestrial Resources Working Group. These species are identified in Appendix F. To ensure that surveys were conducted within the identification periods of these species, the Project area was divided into three elevational ranges: elevations less than 4,500 feet, elevations 4,500 to 6,600 feet, and elevations higher than 6,600 feet. Surveys were conducted during the early and late blooming period in each elevation range from April through August 2002. The lower elevation surveys were conducted during the weeks of April 22-28, April 29-May 5, May 13-19, and July 8-14; the middle elevation surveys were conducted during the weeks of May 13-19, May 20-26, June 3-9, July 15-21, and July 22-29; and the higher elevation surveys were conducted during the weeks of June 3-9, June 10-16, July 22-29, and August 12-18. Appendix G provides a list of species, including the blooming period for each species occurring within each elevational range. This list was used to determine the appropriate time to conduct surveys.

Depending on the survey area and terrain, a variety of survey methods were utilized that allowed visual surveillance of the entire area. This included walking in a zig-zag or linear pattern, random meandering, and/or driving. The area surveyed includes 200 feet around the following facilities: dams, reservoirs, moderate diversions, forebays, powerhouses, transmission lines, and Project-related recreational facilities. A 300-foot area around Project-related campgrounds and a 50-foot area was surveyed around small diversions. A 30-foot area was surveyed around Project roads. An area visible, but not less than 5 feet on either side, was surveyed around trails. Project trails are not maintained and are used only a few times a year. Therefore, the disturbance involved in surveying off trails would have been a greater impact than that from the trail itself, when there was dense vegetation adjacent to the trail. Areas that were inaccessible were not surveyed. A list of facilities surveyed in each elevation range category is provided in Appendix H.

Surveys were conducted in accordance with the *Guidelines for Assessing Effects of Proposed Projects on Rare, Threatened, and Endangered Plants and Natural Communities* (CDFG 2000). Surveys were floristic in nature, and nomenclature was based on the *Jepson Manual* (Hickman, 1993). Floristic survey methods involve

identifying all species to the level necessary to determine if they are a special-status plant, or whether they are a plant species with unusual or significant range extensions. Although bryophytes were included on the list of potential special-status plants occurring in the Project area, floristic surveys were focused on vascular plants. Areas with appropriate habitat for special-status bryophytes were examined briefly during surveys. Plant species observed during field surveys were recorded. For each special-status plant species or population observed, photographs and GPS coordinates were obtained (if possible), and an estimate of the number of individuals present, their phenology, and the associated vegetation was recorded. A CNDDDB form was completed for each special-status plant population identified. The locations were mapped on 7.5-minute USGS quadrangles and incorporated into a confidential GIS database.

5.0 STUDY RESULTS AND ANALYSIS

5.1 REVIEW OF EXISTING INFORMATION

There were 100 special-status plant species initially identified as potentially occurring in the Project vicinity, the area within a few miles of the FERC Project boundaries, based on review of the CNDDDB (CDFG 2003), *Sierra National Forest Sensitive Plant List* (Clines, 2002), *USFWS Species List* (USFWS 2003), *CNPS Electronic Inventory or Rare and Endangered Vascular Plants of California* (CNPS, 2001a), *USDA-FS Regional Forester's List of Sensitive Plant and Animal Species for Region 5* (USDA-FS, 1998), and agency consultation (Appendix F). Nineteen of these species are unlikely to occur in the Study Area, based on either elevation or known range distribution. Eighty-one special-status plant species have the potential to occur in the Study Area based on habitat and elevation. Seven of these species were identified during surveys. One of these species (subalpine fireweed) and 23 additional species were evaluated by a habitat-based approach and considered to have the potential to occur in water-dependent habitats along bypass and flow-augmented reaches within the Study Area. A detailed description is provided below for each of these species.

Descriptions of each species below are based on the *Jepson Manual* (Hickman 1993) and habitat, distribution range, and blooming period are based on the *CNPS Inventory of Rare and Endangered Vascular Plants of California* (CNPS 2001b), unless otherwise referenced.

5.1.1 CNPS 1B, FSS, AND/OR FSC SPECIES

Mono Hot Springs evening-primrose (*Camissonia sierrae* ssp. *alticola*; FSC, CNPS 1B, FSS). Mono Hot Springs evening-primrose is a slender annual member of the evening primrose family. It occurs on granitic outcrops, sand pans, and gravel within lower and upper montane coniferous forests. It is found from 4,396 to 7,906 feet in elevation and blooms from May to August. This species has been recorded from Fresno County, Madera County, and an unverified record in Mariposa County. There are several known populations within the Study Area in the vicinity of Florence Lake and Jackass Meadow (CDFG 2003). There are also known populations in the

Project vicinity. There is one known population about 1.5 miles west of Mammoth Pool Reservoir, on a ridge between Shakeflat Creek and West Fork Chiquito Creek. There are known populations near Mono Hot Springs Campground, near Bear Creek Diversion and Forebay, along the road that leads to the forebay, and about 2,000 feet from Mono Creek Diversion and Forebay.

Subalpine fireweed (*Epilobium howellii*; CNPS 1B, FSS). Subalpine fireweed is a stoloniferous perennial herb found in the evening primrose family. It occurs in meadows and seeps in subalpine coniferous forests from 6,561 to 8,858 feet in elevation and blooms from July to August. There are known populations in the Project vicinity about 2,000 feet north of Huntington Lake just east of Line Creek and about 1,000 feet east of the Portal Forebay Distribution Line (CDFG 2003).

Short-leaved hulsea (*Hulsea brevifolia*; CNPS 1B, FSS). Short-leaved hulsea is a perennial herb in the sunflower family. It occurs in granitic, volcanic, gravelly, or sandy soils in openings and under canopy in mixed coniferous and red fir forests from 4,921 to 10,498 feet in elevation. It blooms from May to August and has been recorded from the following counties: Fresno, Madera, Mariposa, Tulare, and Tuolumne. There are known populations, within the Study Area, in Dowville Picnic Area and within 200 feet of Huntington Lake perimeter just east of Camp Olijato (USDA-FS 2002). There are also known populations in the Project vicinity about 3,500 feet southeast of Pitman Diversion on the west side of Highway 168, about 250 feet from the Portal Powerhouse Energy Dissipater near Rancheria Creek; about 3,000 feet southwest of Huntington Lake on the road leading down to Big Creek Community; and within about a mile of the Big Creek Community on the east side of the road to Huntington Lake.

Yosemite lewisia (*Lewisia disepala*; FSC, CNPS 1B, FSS). Yosemite lewisia is a perennial herb in the purslane family. This species occurs in fine gravel on rock outcrops or domes in lower montane coniferous forests, pinyon juniper woodlands, and upper montane coniferous forests. It occurs from 4,396 to 11,482 feet in elevation and blooms from April to June. This species has been recorded from the following counties: Fresno, Kern, Madera, Mariposa, and Tulare. There are known populations in the Project vicinity. There is a known population about 1.5 miles west of Mammoth Pool Reservoir, on a ridge between Shakeflat Creek and West Fork Chiquito Creek. There is a known population located about 0.75 mile southwest of the confluence of the South Fork of the San Joaquin and the San Joaquin River.

5.1.2 CNPS 4 AND FSW SPECIES

Yosemite evening-primrose (*Camissonia sierrae* ssp. *sierrae*; CNPS 4, FSW). Yosemite evening-primrose is a slender annual member of the evening primrose family. It occurs in cismontane woodland, and lower montane coniferous forests from 1,640 to 4,265 feet in elevation and blooms from April to June. This species has been recorded from the following counties: Fresno, Madera, Mariposa, and Tuolumne. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2002; USDA-FS 2002).

Small-flowered monkeyflower (*Mimulus inconspicuus*; CNPS 4, FSW). Small-flowered monkeyflower is an annual herb in the figwort family. It occurs on drained upland areas near hillside streams or seeps in partial shade and in chaparral, cismontane woodlands, and lower montane coniferous forests from 1,492 to 2,493 feet in elevation. It blooms from May to June and has been recorded in the following counties: Amador, Calaveras, Mariposa, and Tuolumne. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2002; USDA-FS 2002).

Cut-leaved monkeyflower (*Mimulus laciniatus*; CNPS 4, FSW). Cut-leaved monkeyflower is an annual herb in the figwort family. It occurs on mesic, granitic sites in chaparral, lower montane coniferous forests, and upper montane coniferous forests. It occurs from 1,607 to 8,694 feet in elevation and blooms from April to July. It has been recorded in the following counties: Amador, Butte, Fresno, Madera, Mariposa, Plumas, Tulare, and Tuolumne. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2002; USDA-FS 2002).

5.1.3 SPECIES POTENTIALLY OCCURRING IN WATER-DEPENDENT HABITATS ALONG BYPASS AND FLOW-AUGMENTED REACHES WITHIN THE PROJECT AREA

There is the potential for 24 species to occur in bogs, fens, meadows, seeps, and riparian and aquatic habitats along or in bypass and flow-augmented reaches within the Project area. Surveys were conducted for these species within the study area. However, a habitat-based approach was used to determine potential for occurrence along bypass and flow-augmented reaches within the Study Area. A description of each is provided below, with the exception of subalpine fireweed, which is described above. Descriptions are based on the *Jepson Manual* (Hickman 1993) and habitat, distribution range, and blooming period are based on the CNPS *Inventory of Rare and Endangered Vascular Plants of California* (CNPS 2001b), unless otherwise referenced.

5.1.4 CNPS 1B, FSS, AND/ OR FSC OR FSW SPECIES

Flaming trumpet (*Collomia rawsoniana*; FSC, CNPS 1B, FSS). Flaming trumpet is a perennial herb found in the phlox family. It occurs in lower montane coniferous forests in meadows, seeps, and riparian scrub. It blooms from July to August and occurs from 2,559 to 7,217 feet in elevation. This species has been recorded from Madera and Mariposa counties. There are known occurrences within the Study Area, along an unnamed tributary to the west side of Mammoth Pool Reservoir, south of Chiquito Creek (CDFG 2003). There are known occurrences within the Project vicinity about 4,000 feet upstream from Rock Creek Diversion and farther upstream, about a mile away from the San Joaquin River on Fish Creek and about 1,500 feet upstream of Ross Creek Diversion and farther upstream (CDFG 2003).

Keil's daisy (*Erigeron inornatus* var. *keillii*; CNPS 1B, FSW). Keil's daisy is a perennial herb found in the sunflower family. It occurs in lower montane coniferous forest, meadows, and seeps. It blooms from June to September and occurs from 5,905 to 7,215 feet in elevation. This species has been recorded from Fresno and Tulare counties. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

Shuteye Peak fawn lily (*Erythronium pluriflorum*; CNPS 1B, FSS). Shuteye Peak fawn lily is a perennial herb found in the lily family. It occurs in upper montane coniferous forest, meadows, subalpine coniferous forest, and rocky granitic outcrops and slopes. It blooms from May to July and occurs from 6,758 to 8,366 feet in elevation. This species has been recorded from Madera County. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

Field ivesia (*Ivesia campestris*; CNPS 1B, FSW). Field ivesia is a perennial in the rose family. It occurs in meadows, edges of seeps, subalpine coniferous forest, and upper montane coniferous forest. It blooms from June to August and occurs at elevations of 6,480 to 10,995 feet. This species has been recorded from Fresno and Tulare counties. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

Slender-stemmed monkeyflower (*Mimulus filicaulis*; FSC, CNPS 1B, FSS). Slender-stemmed monkeyflower is an annual herb in the figwort family. It occurs in cismontane woodland, lower montane coniferous forest, meadows and seeps, and upper montane coniferous forest with vernal mesic environments from 2,950 to 5,745 feet in elevation. It blooms from April to August. This species has been recorded from Tuolumne and Mariposa counties. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

Pansy monkeyflower (*Mimulus pulchellus*; CNPS 1B, FSS). Pansy monkeyflower is an annual herb in the figwort family. It occurs in lower montane coniferous forest, meadows, and seeps, in vernal mesic environments. It blooms from May to July and occurs from 1,965 to 6,565 feet in elevation. This species has been recorded from Calaveras, Mariposa, and Tuolumne counties. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

California beaked-rush (*Rhyncospora californica*; FSC, CNPS 1B, FSW). California beaked-rush is a perennial herb in the sedge family. It occurs in bogs and fens, lower montane coniferous forest, meadows and seeps, marshes, and freshwater swamps. It blooms from May to July and occurs at 145 to 3,315 feet in elevation. This species has been recorded from Fresno and Mariposa counties. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

Bolander's clover (*Trifolium bolanderi*; FSC, CNPS 1B, FSS). Bolander's clover is a perennial herb found in the legume family. It occurs in lower montane coniferous forest, meadows and seeps, and upper montane coniferous forest in mesic environments. It blooms from June to August and occurs from 7,900 to 8,530 feet in elevation. This species has been recorded from the following counties: Fresno, Madera, and Mariposa. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

5.1.5 CNPS 2, FSS, AND/ OR FSW SPECIES

Bolander's candle moss (*Bruchia bolanderi*; CNPS 2, FSS). Bolander's candle moss is an ephemeral moss of alpine or high montane meadows (Norris 2001). This species is endemic to meadows of the Sierra Nevada (Clines 2001). It occurs in mixed coniferous forests on vertical banks of streams from 5,000 to 7,500 feet in elevation (Clines 2001). There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

Moss (*Meesia triquetra*; CNPS 2, FSS). This moss species occurs in acidic montane meadows in coniferous forest, especially in meadows with peat moss, from 6,000 to 8,000 feet in elevation (Clines 2001). There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

Moss (*Meesia uliginosa*; CNPS 2, FSS). This moss species occurs in saturated meadows in mixed coniferous forest and red fir/lodgepole pine forests between 7,500 to 9,000 feet in elevation (Clines 2001). There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

Nuttall's pondweed (*Potamogeton epihydrus* ssp. *nuttallii*; CNPS 2, FWS). Nuttall's pondweed is a perennial herb in the pondweed family. It occurs in marshes, swamps, and assorted shallow freshwater. It blooms from July to August and occurs from 1,310 to 6,235 feet in elevation. This species has been recorded from Mariposa County. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

Prairie wedge grass (*Sphenopholis obtusata*; CNPS 2, FSW). Prairie wedge grass is a perennial herb in the grass family. It occurs in cismontane woodland, meadows and seeps in mesic environments. It blooms from April to July and occurs from 980 to 6,565 feet in elevation. This species has been recorded from several counties including Fresno County. There are two known populations in the Study vicinity. One population is located within a quarter mile of the Study Area (CDFG 2003). This population is located near the mineral springs of Mono Hot Springs, 3.7 miles northeast of Mt. Givens. The other population is located about 3.5 miles from the Study Area at the hot springs in Blayney Meadows.

5.1.6 CNPS 2 ONLY SPECIES

Shore sedge (*Carex limosa*; CNPS 2). Shore sedge is a perennial herb in the sedge family. It occurs in bogs and fens, lower montane coniferous forest, meadows and seeps, marshes and swamps, and upper montane coniferous forests from 3,937 to 8,858 feet in elevation. It blooms from June to August. This species has been recorded from Fresno County. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

Meadow sedge (*Carex praticola*; CNPS 2). Meadow sedge is a perennial herb found in the sedge family. It occurs in bogs and fens, lower montane coniferous forest, meadows and seeps, marshes and swamps, and upper montane coniferous forest. It blooms from June to August and occurs from 3,937 to 8,858 feet in elevation. This species has been recorded from several counties including Madera County. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

Flat-leaved bladderwort (*Utricularia intermedia*; CNPS 2). Flat-leaved bladderwort is an aquatic herb in the bladderwort family. It occurs in bogs and fens, meadows and seeps, marshes, and swamps along lake margins. It blooms from July to August and occurs from 3,937 to 8,858 feet in elevation. This species has been recorded from Butte, Fresno, Modoc, Plumas, and Tulare counties. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

5.1.7 CNPS 3 AND FSW SPECIES

Yosemite tarplant (*Madia yosemitana*; CNPS 3, FSW). Yosemite tarplant is an annual herb in the sunflower family. It occurs in lower montane coniferous forest, meadows, and seeps. It blooms from April to July and occurs at 3,940 to 7,550 feet in elevation. This species is recorded from Fresno and possibly Madera counties. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

5.1.8 CNPS 4 AND FSW SPECIES

Marsh claytonia (*Claytonia palustris*; CNPS 4, FSW). Marsh claytonia is a perennial herb in the purslane family. It occurs in meadows and seeps, mesic environments, marshes, and swamps from 3,280 to 8,200 feet in elevation. It blooms from May to August. The species has been recorded from Fresno and Tulare counties. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

Yosemite ivesia (*Ivesia unguiculata*; CNPS 4, FSW). Yosemite ivesia is a perennial herb found in the rose family. It occurs in meadows, subalpine coniferous forest, upper montane coniferous forest, and moist, open slopes. It blooms from June to September and occurs from 4,900 to 9,600 feet in elevation. This species has been recorded from Fresno, Madera, and Mariposa counties. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

Mountain phacelia (*Phacelia oregones*; CNPS 4, FSW). Mountain phacelia is an annual herb found in the waterleaf family. It occurs in meadows and seeps, pinyon and juniper woodland, and subalpine coniferous forest in mesic environments. It blooms from July to August and occurs from 7,870 to 11,155 feet in elevation. This species has been recorded from Fresno and Tulare counties. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

Cusick's speedwell (*Veronica cusickii*; CNPS 4, FSW). Cusick's speedwell is a perennial herb found in the figwort family. It occurs in alpine boulder and rock fields, meadows and seeps, subalpine coniferous forest, and upper montane coniferous forests. It blooms from July to August, and occurs at elevations of 7,000 to 9,845 feet. This species has been recorded in Tuolumne County. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

5.1.9 FSS ONLY

Veined water lichen (*Hydrothyria venosa*; FSS). Veined water lichen is a medium-sized gelatinous lichen with cyanobacteria present throughout the thallus (i.e., the vegetative body). It is lead-colored to brownish or blackish, with irregularly cut, fan-shaped lobes. It is the only gelatinous lichen with distinct veins and it appears in dark, ruffled masses (Derr, Date Unknown). It occurs in cold, clear, unpolluted streams in mixed coniferous forests from 4,000 to 8,000 feet in elevation. There are no CNDDDB, USDA-FS, or CNPS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002; CNPS 2001a).

5.1.10 FSW ONLY

Roundleaf sundew (*Drosera rotundifolia*; FSW). Roundleaf sundew is an annual herb in the sundew family. It occurs in sphagnum bogs from 0 to 6,565 feet in elevation and blooms from June to September. There are no CNDDDB or USDA-FS database records of this species within the Project vicinity (CDFG 2003; USDA-FS 2002).

5.2 EVALUATION OF VEGETATION COMMUNITIES MAPPING

Each vegetation community present within the study area was determined to potentially support at least one special-status plant species. Therefore, every vegetation community was visited during the early season survey. During late-blooming surveys, some lower elevation facilities were not surveyed if there was no potential habitat for late-blooming species to occur. These facilities include the China Bar Boat Camp and the lower half of the Big Creek 3-Mammoth Pool Powerhouse Transmission Line Access Road.

The vegetation community mapping, completed as part of TERR-1, Vegetation Communities, was used to evaluate the potential for special-status species to occur in water-dependent habitats along bypass and flow-augmented reaches within the Study Area. These habitats include: bogs, fens, meadows, seeps, and riparian and aquatic. There is the potential for flaming trumpet, subalpine fireweed, Keil's daisy, Shuteye Peak fawn lily, field ivesia, slender-stemmed monkeyflower, pansy monkeyflower, California beaked-rush, Bolander's clover, Bolander's candle moss, moss species (*Meesia triquetra*; *M. uliginosa*), Nuttall's pondweed, prairie wedge grass, shore sedge, meadow sedge, flat-leaved bladderwort, Yosemite tarplant, marsh claytonia, Yosemite ivesia, mountain phacelia, Cusick's speedwell, veined water lichen, and roundleaf sundew to occur in these areas.

5.2.1 SPECIAL-STATUS PLANT SURVEYS

A list of plants observed during surveys was recorded and is provided in Appendix I. Two bryophytes were also identified during surveys and are included in the species list (Appendix I). For each special-status plant population observed, a CNDDDB form was completed (Appendix J) and photographs were taken (Appendix K). Seven special-status plant species were identified in the study area during the surveys (Appendix L). These include: twenty-two occurrences of Mono Hot Springs evening-primrose (*Camissonia sierrae* ssp. *alticola*), six occurrences of Yosemite evening-primrose (*Camissonia sierrae* ssp. *sierrae*), three¹ occurrences of subalpine fireweed (*Epilobium howellii*), seven occurrences of short-leaved hulsea (*Hulsea brevifolia*), one occurrence of Yosemite lewisia (*Lewisia disepala*), one occurrence of small-flowered monkeyflower (*Mimulus inconspicuus*), and twenty occurrences of cut-leaved monkeyflower (*Mimulus laciniatus*). The general location of each population is described in Appendix M and the specific location of these populations is provided in Figure TERR-3-1a through c. A general location description of each population identified in relation to the known occurrences of those species in the Project vicinity is provided below.

¹ One of these occurrences includes a population identified as part of the Portal Project, FERC Project No. 2174

5.2.2 CNPS 1B, FSS, AND/OR FSC SPECIES

Mono Hot Springs evening-primrose (*Camissonia sierrae* ssp. *alticola*; FSC, CNPS 1B, FSS). Twenty-two populations were identified within the study area in decomposed granite and cracks in granite bedrock. Two populations were located near Mammoth Pool, one at Bear Diversion Forebay, and the remaining 19 populations were observed in the Florence Lake area. There are several known populations within the Project area in the vicinity of Florence Lake and Jackass Meadow. One population that was identified during the special-status plant surveys was a known occurrence. It is located at the SCE Florence Lake Work Camp.

Subalpine fireweed (*Epilobium howellii*; CNPS 1B, FSS). Three populations were identified in wet meadows within the study area, one of which was in the Portal Project area, FERC Project No. 2174. One population was located on the shore of Huntington Lake, another near the Kokanee Work Camp, and the third population, which was in the Portal Project area, was observed near the Portal Forebay Power Line.

Short-leaved hulsea (*Hulsea brevifolia*; CNPS 1B, FSS). Seven populations were identified in Sierran mixed conifer forest openings within the study area. These populations were all located in the Balsam Meadow Forebay area. There are known populations, within the Project area, near Dowville Picnic area and within 200 feet of Huntington Lake perimeter just east of Camp Olijato (USDA-FS 2002). The known occurrences are represented in the database as large polygons in which the species was recorded. These areas extend within 200 feet of Huntington Lake but also outside of the study area. These populations were not detected in the study area during special-status plant surveys.

Yosemite lewisia (*Lewisia disepala*; FSC, CNPS 1B, FSS). One population was identified within the study area. The site was located on a granitic dome along the road to Mammoth Pool Dam.

5.2.3 CNPS 4 AND FSW SPECIES

Yosemite evening-primrose (*Camissonia sierrae* ssp. *sierrae*; CNPS 4, FSW). Six populations were identified within the study area in granitic gravel/sand. Four populations were located in the Mammoth Pool area, one population near Shaver Lake Dam, and one population near the Shakeflat Creek Trail.

Small-flowered monkeyflower (*Mimulus inconspicuus*; CNPS 4, FSW). One population was identified within the study area. This site was located near Shaver Lake Dam along a dirt road in Sierran mixed coniferous forest.

Cut-leaved monkeyflower (*Mimulus laciniatus*; CNPS 4, FSW). Twenty populations were identified in granitic seeps within the study area. Ten populations were located in the Shaver Lake area and ten populations were located in the Florence Lake area.

5.2.4 SPECIES POTENTIALLY OCCURRING IN WATER-DEPENDENT HABITATS ALONG BYPASS AND FLOW-AUGMENTED REACHES WITHIN THE PROJECT AREA

CNPS 1B, FSS, AND/OR FSC OR FSW SPECIES

Flaming trumpet (*Collomia rawsoniana*; FSC, CNPS 1B, FSS). There were no populations identified during special-status plant surveys. There is the potential for flaming trumpet to occur in riparian areas along all flow-augmented and bypass reaches located between 2,559 to 7,215 feet in elevation within the Project area. There are known occurrences within the Project area, along an unnamed tributary to the west side of Mammoth Pool Reservoir, south of Chiquito Creek (USDA-FS 2002). The known occurrences are represented as a large polygon in which the species was recorded. These areas extend within 200 feet of Mammoth Pool Reservoir and farther outside of the Study Area. These populations were not detected during surveys.

Subalpine fireweed (*Epilobium howellii*; CNPS 1B, FSS). There is the potential for subalpine fireweed to occur in meadows and seeps along flow-augmented and bypass reaches located between 6,561 to 8,858 feet in elevation within the Study Area. Populations were identified during focused surveys. These populations are described above.

Keil's daisy (*Erigeron inornatus* var. *keillii*; CNPS 1B, FSW). There were no populations identified during special-status plant surveys. There is the potential for Keil's daisy to occur in meadows and seeps along flow-augmented and bypass reaches located between 5,905 to 7,215 feet in elevation within the Study Area.

Shuteye Peak fawn lily (*Erythronium pluriflorum*; CNPS 1B, FSS). There were no populations identified during special-status plant surveys. There is the potential for Shuteye Peak fawn lily to occur in meadows along flow-augmented and bypass reaches located between 6,758 to 8,366 feet in elevation within the Study Area.

Field ivesia (*Ivesia campestris*; CNPS 1B, FSW). There were no populations identified during special-status plant surveys. There is the potential for field ivesia to occur in meadows and edges of seeps along flow-augmented and bypass reaches located between 6,480 to 10,995 feet in elevation within the Study Area.

Slender-stemmed monkeyflower (*Mimulus filicaulis*; FSC, CNPS 1B, FSS). There were no populations identified during special-status plant surveys. There is the potential for slender-stemmed monkeyflower to occur in meadows and seeps along flow-augmented and bypass reaches located between 2,950 to 5,745 feet in elevation within the Study Area.

Pansy monkeyflower (*Mimulus pulchellus*; FSS, CNPS 1B). There were no populations identified during special-status plant surveys. There is the potential for pansy monkeyflower to occur in meadows and seeps along flow-augmented and bypass reaches located between 1,965 to 6,565 feet in elevation within the Study Area.

California beaked-rush (*Rhynchospora californica*; FSC, CNPS 1B, FSW). There were no populations identified during special-status plant surveys. There is the potential for California beaked-rush to occur in meadows, seeps, and marshes along flow-augmented and bypass reaches located between 145 to 3,315 feet in elevation within the Study Area.

Bolander's clover (*Trifolium bolanderi*; FSS, FSC, CNPS 1B). There were no populations identified during focused special-status plant surveys. There is the potential for Bolander's clover to occur in meadows or seeps along flow-augmented and bypass reaches located between 7,900 to 8,530 feet in elevation within the Study Area.

CNPS 2, FSS, AND/OR FSW SPECIES

Bolander's candle moss (*Bruchia bolanderi*; CNPS 2, FSS). There were no populations identified during focused special-status plant surveys. There is the potential for Bolander's candle moss to occur in meadows or on vertical banks of streams in mixed coniferous forests along flow-augmented and bypass reaches located between 5,000 to 7,500 feet in elevation within the Study Area.

Moss (*Meesia triquetra*; FSS, CNPS 2). There were no populations identified during focused special-status plant surveys. There is the potential for this moss species to occur in acidic montane meadows in coniferous forests along flow-augmented and bypass reaches located between 6,000 to 8,000 feet in elevation within the Study Area.

Moss (*Meesia uliginosa*; FSS, CNPS 2). There were no populations identified during focused special-status plant surveys. There is the potential for this moss species to occur in saturated meadows in mixed coniferous forest and red fir/lodgepole pine forests along flow-augmented and bypass reaches located between 7,500 to 9,000 feet in elevation within the Study Area.

Nuttall's pondweed (*Potamogeton epihydrus* ssp. *nuttallii*; CNPS 2, FWS). There were no populations identified during focused special-status plant surveys. There is the potential for Nuttall's pondweed to occur in marshes and assorted shallow freshwater along flow-augmented and bypass reaches located between 1,310 to 6,235 feet in elevation within the Study Area.

Prairie wedge grass (*Sphenopholis obtusata*; FSW, CNPS 2). There were no populations identified during focused special-status plant surveys. There is the potential for prairie wedge grass to occur in meadows or seeps along flow-augmented and bypass reaches located between 980 to 6,565 feet in elevation within the Study Area.

CNPS 2 ONLY SPECIES

Shore sedge (*Carex limosa*; CNPS 2). There were no populations identified during focused special-status plant surveys. There is the potential for shore sedge to occur in meadows, seeps, and marshes between 3,937 to 8,858 feet in elevation within the Study Area.

Meadow sedge (*Carex praticola*; CNPS 2). There were no populations identified during focused special-status plant surveys. There is the potential for meadow sedge to occur in meadows or seeps along flow-augmented and bypass reaches located between 3,937 to 8,858 feet in elevation within the Study Area.

Flat-leaved bladderwort (*Utricularia intermedia*; CNPS 2). There were no populations identified during focused special-status plant surveys. There is the potential for flat-leaved bladderwort to occur in bogs, fens, meadows, and seeps along flow-augmented and bypass reaches located between 3,937 to 8,858 feet in elevation within the Study Area.

CNPS 3 AND FSW SPECIES

Yosemite tarplant (*Madia yosemitana*; CNPS 3, FSW). There were no populations identified during focused special-status plant surveys. There is the potential for Yosemite tarplant to occur in meadows and seeps along flow-augmented and bypass reaches located between 3,940 to 7,550 feet in elevation within the Study Area.

CNPS 4 AND FSW SPECIES

Marsh claytonia (*Claytonia palustris*; CNPS 4, FSW). There were no populations identified during focused special-status plant surveys. There is the potential for marsh claytonia to occur in meadows, seeps, and marshes along flow-augmented and bypass reaches located between 3,280 to 8,200 feet in elevation within the Study Area.

Yosemite ivesia (*Ivesia unguiculata*; FSW, CNPS 4). There were no populations identified during focused special-status plant surveys. There is the potential for Yosemite ivesia to occur in meadows or seeps along flow-augmented and bypass reaches located between 4,900 to 9,600 feet in elevation within the Study Area.

Mountain phacelia (*Phacelia orogenes*; FSW, CNPS 4). There were no populations identified during focused special-status plant surveys. There is the potential for mountain phacelia to occur in meadows or seeps along flow-augmented and bypass reaches located between 7,870 to 11,155 feet in elevation within the Study Area.

Cusick's speedwell (*Veronica cusickii*; CNPS 4, FSW). There were no populations identified during focused special-status plant surveys. There is the potential for Cusick's speedwell to occur in meadows and seeps along flow-augmented and bypass reaches located between 7,000 to 9,845 feet in elevation within the Study Area.

FSS ONLY SPECIES

Veined water lichen (*Hydrothyria venosa*; FSS). There were no populations identified during special-status plant surveys. There is the potential for veined water lichen to occur in flow-augmented and bypass reaches located between 4,000 to 8,000 feet in elevation within the Study Area.

FSW ONLY SPECIES

Roundleaf sundew (*Drosera rotundifolia*; FSW). There were no populations identified during special-status plant surveys. There is the potential for roundleaf sundew to occur in sphagnum bogs along flow-augmented and bypass reaches located between 0 to 6,565 feet in elevation within the Study Area.

6.0 LITERATURE CITED

- Abrams, L., and R. S. Ferris. 1960. Illustrated Flora of the Pacific States. Stanford University Press. Stanford, CA.
- California Department of Fish and Game (CDFG). 2000. Guidelines for assessing the effects of proposed projects on rare, threatened, and endangered plants and natural communities. Guidelines Produced for the California Department of Fish and Game. May 8, 2000. Revision of Guidelines Dated December 9, 1983.
- California Department of Fish and Game (CDFG). 2003. Rarefind 2; California Natural Diversity Database. Electronic database. April 9, 2003.
- California Native Plant Society (CNPS). 2001a. Inventory of Rare and Endangered Vascular Plants of California. Electronic Database.
- California Native Plant Society (CNPS). 2001b. Inventory of Rare and Endangered Vascular Plants of California (sixth edition). Rare Plant Scientific Advisory Committee, David P. Tibor, Convening Editor. California Native Plant Society. Sacramento, CA. X + 388pp.
- Clines, Joanna. 2001. Threatened, Endangered, and Sensitive Plants of the Sierra National Forest. Dated January 4, 2001.
- Clines, Joanna. 2002. Sierra National Forest Sensitive Plant List. Dated April, 2002.
- Derr, Chiska. Date Unknown. Management Recommendations for *Hydrothyria venosa* J.L. Russell. Available at: <http://www.or.blm.gov/surveyandmanage/MR/Lichens/HYVE20.pdf> Website visited on November 25, 2002.
- Hickman, J.C. 1993. The Jepson Manual. University of California Press, Berkeley, California.
- Hitchcock, A.S., and A. Chase. 1971. Manual of the Grasses of the United States. Vols. 1 and 2. Dover Publications. New York, NY.
- Munz, P.A., and D.D. Keck. 1968. A California flora and supplement. University of California Press. Berkeley, CA.
- Norris, D. 2001. Moss flora of California. Unreviewed draft, November, 2001.
- Stuart, J.D., and J.O. Sawyer. 2001. Trees and Shrubs of California. University of California Press. Berkeley, CA.

- U.S. Department of Agriculture, Forest Service (USDA-FS), Pacific Southwest Region. 1993. Soil Survey of Sierra National Forest Area, California. U.S.D.A. Natural Resource Conservation Service, Regents of the University of California (Agricultural Experiment Station).
- U.S. Department of Agriculture, Forest Service (USDA-FS), Pacific Southwest Region. 1995. Soil Survey High Sierra Area California. U.S.D.A. Natural Resource Conservation Service, Regents of the University of California (Agricultural Experiment Station). October, 1995.
- U.S. Department of Agriculture, Forest Service (USDA-FS). 1998. USDA-FS Regional Forester's List of Sensitive Plant and Animal Species for Region 5.
- U.S. Department of Agriculture, Forest Service (USDA-FS). 2001. Sierra Nevada Forest Plan Amendment. Final Environmental Impact Statement. U.S. Department of Agriculture, U.S. Forest Service, Pacific Southwest Region. January 2001.
- U.S. Department of Agriculture, Forest Service (USDA-FS). 2002. High Sierra Ranger District Sensitive Plant Coverage. Electronic database. Updated February, 2002.
- U.S. Fish and Wildlife Service (USFWS). 2003. Species list. Updated June 5, 2003.
- Weeden, N.F. 1999. A Sierra Nevada Flora. Wilderness Press. Berkeley, CA.

FIGURES

Placeholder for Figures

Non-Internet Public Information

These Figures have been removed in accordance with the Commission regulations at 18 CFR Section 388.112.

These Figures are considered Non-Internet Public information and should not be posted on the Internet. This information is provided in Volume 4 of the Application for New License and is identified as “Non-Internet Public” information. This information may be accessed from the FERC’s Public Reference Room, but is not expected to be posted on the Commission’s electronic library, except as an indexed item.

APPENDIX A

California Native Plant Society Electronic Inventory Query for the Big Creek ALP Study Area

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Balloon Dome Quad

LEWISIA DISEPALA

"Yosemite lewisia"

Family: Portulacaceae

Life Form: Perennial herb

Blooms: March-June

CNPS List: [1B] R/T/E in CA and elsewhere

R-E-D: 2-2-3

State: [None] No state status

Federal: [None] No federal status

Counties: Fresno, Kern, Madera, Mariposa, Tulare

Quads: Walker Pass (259A), White Dome (283C), Cannell Peak (284D), Hockett Peak (307B), Sentinel Peak (308D), Shaver Lake (397D), Balloon Dome (416B), Squaw Dome (417A), Mammoth Pool Dam (417D), Half Dome (437A), El Capitan (437B), Tenaya Lake (454C), Yosemite Falls (455D)

Habitat: Lower montane coniferous forest, Pinyon and juniper woodland, Upper montane coniferous forest / granitic, sandy

Elevation: 1,340-3,500 m.

Notes: Threatened by vehicles and logging. See North American Flora 21:328 (1932) for original description, and Madrono 37(1):63 (1990) for first KRN Co. record.

MEESIA TRIQUETRA

"three-ranked hump-moss"

Family: Meesiaceae

Life Form: Moss

Blooms: not applicable

CNPS List: [2] R/T/E in CA, but more common elsewhere

R-E-D: 2-2-1

State: [None] No state status

Federal: [None] No federal status

Counties: Butte, El Dorado, Fresno, Humboldt, Plumas, Siskiyou, Tulare, Nevada, Oregon, widespread outside of California

Quads: Giant Forest (354D), Nelson Mtn. (396D), Balloon Dome (416B), Freel Peak (522C), Humbug Valley (607A), Butte Meadows (608D), Larabee Valley (634B), City Of Mount Shasta (699D)

Habitat: Bogs and fens, Meadows, Upper montane coniferous forest (mesic) / soil

Elevation: 1,300-2,500 m.

Notes: Infrequently encountered in CA. Probably impacted by intensive grazing. See Codex. Bot. Linn. p. 1045 (1840) for original description, and Nov. Act. R. Soc. Sc. Upsal. 12:357 (1844) for revised nomenclature.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Kaiser Peak Quad

HULSEA BREVIFOLIA

"short-leaved hulsea"

Family: Asteraceae

Life Form: Perennial herb

Blooms: May-August

CNPS List: [1B] R/T/E in CA and elsewhere

R-E-D: 2-2-3

State: [None] No state status

Federal: [None] No federal status

Counties: Fresno, Madera, Mariposa, Tulare, Tuolumne

Quads: Muir Grove (354A), Cedar Grove (374C), Dogtooth Peak (396A), Huntington Lake (396B), Kaiser Peak (416C), Little Shuteye Peak (417B), White Chief Mtn. (418A), Crystal Crag (435D), Half Dome (437A), El Capitan (437B), Wawona (437C), Mariposa Grove (437D), Tenaya Lake (454C), Tamarack Flat (455C), Yosemite Falls (455D)

Habitat: Lower montane coniferous forest, Upper montane coniferous forest / granitic or volcanic, gravelly or sandy

Elevation: 1,500-3,200 m.

Notes: Threatened by vehicles, logging, and road maintenance. See Proceedings of the American Academy of Arts and Sciences 7:359 (1867) for original description, and Brittonia 27(3):228-244 (1975) for taxonomic treatment.

UTRICULARIA INTERMEDIA

"flat-leaved bladderwort"

Family: Lentibulariaceae

Life Form: Perennial herb (stoloniferous), aquatic

Blooms: July-August

CNPS List: [2] R/T/E in CA, but more common elsewhere

R-E-D: 2-2-1

State: [None] No state status

Federal: [None] No federal status

Counties: Butte, Fresno, Modoc, Plumas, Tulare, Idaho, Nevada, Utah, Washington, widespread outside of California

Quads: Huntington Lake (396B), Florence Lake (415C), Kaiser Peak (416C), Johnsville (588C), Blairsden (588D), Storrie (591A), Jonesville (607C), Red Cinder (624B), Chester (624C), Mt. Harkness (625A), Reading Peak (625B), Stover Mtn. (625D), Egg Lake (695D)

Habitat: Bogs and fens, Meadows (mesic), Marshes and Swamps (lake margins)

Elevation: 1,200-2,700 m.

Notes: Need quads for TUL Co. State-listed as Sensitive in WA. See Madrono 22(2):74-84 (1973) for taxonomic treatment.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Mt. Givens Quad

CAMISSONIA SIERRAE SSP. *ALTICOLA*

"Mono Hot Springs evening-primrose"

Family: Onagraceae

Life Form: Annual herb

Blooms: May-August

CNPS List: [1B] R/T/E in CA and elsewhere

R-E-D: 2-2-3

State: [None] No state status

Federal: [None] No federal status

Counties: Fresno, Madera, Mariposa [?]

Quads: Ward Mountain (395B), Graveyard Peak (415B), Florence Lake (415C), Mt. Givens (416D), Squaw Dome (417A), Little Shuteye Peak (417B), Mammoth Pool Dam (417D), Merced Peak (436B) [?]

Habitat: Lower montane coniferous forest, Upper montane coniferous forest / granitic, gravel and sand pans

Elevation: 1,340-2,410 m.

Notes: Known from approximately fifteen occurrences. MPA Co. record (436B) needs verification. See Contributions from the U.S. National Herbarium 37(5):329 (1969) for original description.

DRABA SHARSMITHII

"Mt. Whitney draba"

Family: Brassicaceae

Life Form: Perennial herb

Blooms: July-August

CNPS List: [1B] R/T/E in CA and elsewhere

R-E-D: 3-1-3

State: [None] No state status

Federal: [None] No federal status

Counties: Fresno, Inyo, Tulare

Quads: Camp Nelson (308A), Mt. Williamson (352A), Mount Whitney (352D), Kearsarge Peak (373D), Mt. Givens (416D)

Habitat: Alpine boulder and rock field, Subalpine coniferous forest

Elevation: 3,300-3,960 m.

Notes: Known from fewer than ten occurrences. Need quads for FRE Co. See Madrono 5(5):151 (1940) for original description.

EPILOBIUM HOWELLII

"subalpine fireweed"

Family: Onagraceae

Life Form: Perennial herb (stoloniferous)

Blooms: July-August

CNPS List: [1B] R/T/E in CA and elsewhere

R-E-D: 3-1-3

State: [None] No state status

Federal: [None] No federal status

Counties: Fresno, Mono, Sierra

Quads: Dogtooth Peak (396A), Huntington Lake (396B), Mt. Givens (416D), Sattley (571C)

Habitat: Meadows, Subalpine coniferous forest / mesic

Elevation: 2,000-2,700 m.

Notes: Known from only four occurrences. Rarity and endangerment information needed. Need quads for MNO Co. See Phytologia 73(6):460-462 (1992) for original description.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Mt. Givens Quad

SPHENOPHOLIS OBTUSATA

"prairie wedge grass"

Family: Poaceae

Life Form: Perennial herb

Blooms: April-July

CNPS List: [2] R/T/E in CA, but more common elsewhere

R-E-D: 2-2-1

State: [None] No state status

Federal: [None] No federal status

Counties: Amador, Fresno, Inyo, Mono, Riverside, San Bernardino, San Diego [?],
Tulare, widespread outside of California

Quads: Moonridge (105A), San Bernardino South (107D), Fairview (284B), Ward
Mountain (395B), Laws (413A), Mt. Givens (416D), Bridgeport (487C), Mt.
Patterson (488A), Pine Grove (493B), Amador City (494A), Jackson (494D)

Habitat: Cismontane woodland, Meadows / mesic

Elevation: 300-2,000 m.

Notes: Does plant occur in SDG Co.? Threatened by grazing and hydrological
alterations. See Rhodora 8(92):137-146 (1906) for discussion of genus.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Shaver Lake Quad

LEWISIA DISEPALA (cont.)

(1932) for original description, and Madrono 37(1):63 (1990) for first KRN Co. record.

LUPINUS CITRINUS VAR. *CITRINUS*

"orange lupine"

Family: Fabaceae

Life Form: Annual herb

Blooms: April-July

CNPS List: [1B] R/T/E in CA and elsewhere

R-E-D: 2-2-3

State: [None] No state status

Federal: [None] No federal status

Counties: Fresno, Madera

Quads: Trimmer (377A), Dinkey Creek (396C), Musick Mtn. (397A), Cascadel Point (397B), Auberry (397C), Shaver Lake (397D), O'Neals (398B), Ahwahnee (418D)

Habitat: Chaparral, Cismontane woodland, Lower montane coniferous forest / granitic

Elevation: 380-1,700 m.

Notes: Threatened by development, road widening, vehicles, grazing, and logging. See Proceedings of the California Academy of Sciences I 7:93 (1877) for original description, and Madrono 28(3):184 for first MAD Co. record.

TAYLORIA LINGULATA

"tongue-leaf gland-moss"

Family: Splachnaceae

Life Form: Moss

Blooms: not applicable

CNPS List: [2] R/T/E in CA, but more common elsewhere

R-E-D: 3-1-1

State: [None] No state status

Federal: [None] No federal status

Counties: Fresno, widespread outside of California

Quads: Shaver Lake (397D)

Habitat: Lower montane coniferous forest (soil)

Elevation: 1,500 m.

Notes: Known in CA from only one occurrence on the Sierra NF. Genus generally on dung or other high nitrogen substrates. See Pl. Crypt. Brit. 4:4 (1801) for original description and Musci Scad. p. 19 (1879) for revised nomenclature.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Shaver Lake Quad

CARPENTERIA CALIFORNICA
"tree-anemone"

Family: Philadelphaceae

Life Form: Shrub (evergreen) **Blooms:** May-July
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 3-2-3
State: [CT] State listed as Threatened (01/90)
Federal: [None] No federal status
Counties: Fresno, Madera
Quads: Trimmer (377A), Dinkey Creek (396C), Cascadel Point (397B), Auberry (397C), Shaver Lake (397D), North Fork (398A), Millerton Lake East (398D)
Habitat: Chaparral, Cismontane woodland / usually granitic
Elevation: 340-1,340 m.
Notes: Known from only seven occurrences. There are historical reports of introduced plants in MAD Co. Threatened by development, road construction, logging, vehicles, and overgrazing. Special management is necessary since reproduction is fire dependent. Protected in part at Carpenteria BA (USFS). See Aliso 2(2):115-118 (1950) for species account, and Fremontia 10(4):21-22 (1983) for discussion of propagation.

JENSIA YOSEMITANA
"Yosemite tarplant"

Family: Asteraceae

Life Form: Annual herb **Blooms:** April-July
CNPS List: [3] More information is needed. **R-E-D:** ?-2-3
State: [None] No state status
Federal: [None] No federal status
Counties: Amador, Fresno, Madera [?], Mariposa, Tulare, Tuolumne
Quads: Lodgepole (353C), Auberry (397C), Shaver Lake (397D), Mariposa (419B), Merced Peak (436B), Half Dome (437A), Ten Lakes (455A), Hetch Hetchy Reservoir (455B), Yosemite Falls (455D), Lake Eleanor (456A), Dardanelle (490D), Garnet Hill (492A)
Habitat: Lower montane coniferous forest, Meadows
Elevation: 1,200-2,300 m.
Notes: Move to List 4? Easily overlooked; location and rarity information needed. Does plant occur in MAD Co.? A synonym of *Madia yosemitana* in The Jepson Manual. See Proceedings of the American Academy of Arts and Sciences 17:219 (1881-2) for original description, and Novon 9:462-471 (1999) for revised nomenclature.

LEWISIA DISEPALA
"Yosemite lewisia"

Family: Portulacaceae

Life Form: Perennial herb **Blooms:** March-June
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 2-2-3
State: [None] No state status
Federal: [None] No federal status
Counties: Fresno, Kern, Madera, Mariposa, Tulare
Quads: Walker Pass (259A), White Dome (283C), Cannell Peak (284D), Hockett Peak (307B), Sentinel Peak (308D), Shaver Lake (397D), Balloon Dome (416B), Squaw Dome (417A), Mammoth Pool Dam (417D), Half Dome (437A), El Capitan (437B), Tenaya Lake (454C), Yosemite Falls (455D)
Habitat: Lower montane coniferous forest, Pinyon and juniper woodland, Upper montane coniferous forest / granitic, sandy
Elevation: 1,340-3,500 m.
Notes: Threatened by vehicles and logging. See North American Flora 21:328

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Auberry Quad

MIMULUS GRACILIPES (cont.)

Botanical Garden 11(2-3):252-253 (1924) for the taxonomic treatment, and
Madrono 28(1):41 (1981) for range extension information.

VIBURNUM ELLIPTICUM

"oval-leaved viburnum"

Family: Caprifoliaceae

Life Form: Shrub (deciduous) **Blooms:** May-June
CNPS List: [2] R/T/E in CA, but more common elsewhere **R-E-D:** 2-1-1
State: [None] No state status
Federal: [None] No federal status
Counties: Contra Costa, Fresno, El Dorado, Glenn, Humboldt, Mendocino, Napa, Shasta,
Sonoma, Oregon, Washington
Quads: Auberry (397C), Clayton (464B) [possibly extirpated], Diablo (464C)
[possibly extirpated], Tassajara (464D), Walnut Creek (465A), Briones
Valley (465B), Mt. George (499C), Sonoma (500C), Kenwood (501A),
Placerville (510A), Mark West Springs (517C), Hopland (535A), Purdys
Gardens (550D), Burbeck (567B), Laytonville (583B), Bell Springs (600A),
Leggett (600C), Tan Oak Park (600D), Harris (616C), Chancelulla Peak 15'
NE (631A), Bella Vista (646B)
Habitat: Chaparral, Cismontane woodland, Lower montane coniferous forest
Elevation: 215-1,400 m.
Notes: Need quads for GLE Co.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Auberry Quad

JENSIA YOSEMITANA (cont.)

Sciences 17:219 (1881-2) for original description, and Novon 9:462-471 (1999) for revised nomenclature.

LUPINUS CITRINUS VAR. *CITRINUS*

"orange lupine"

Family: Fabaceae

Life Form: Annual herb

Blooms: April-July

CNPS List: [1B] R/T/E in CA and elsewhere

R-E-D: 2-2-3

State: [None] No state status

Federal: [None] No federal status

Counties: Fresno, Madera

Quads: Trimmer (377A), Dinkey Creek (396C), Musick Mtn. (397A), Cascadel Point (397B), Auberry (397C), Shaver Lake (397D), O'Neals (398B), Ahwahnee (418D)

Habitat: Chaparral, Cismontane woodland, Lower montane coniferous forest / granitic

Elevation: 380-1,700 m.

Notes: Threatened by development, road widening, vehicles, grazing, and logging. See Proceedings of the California Academy of Sciences I 7:93 (1877) for original description, and Madrono 28(3):184 for first MAD Co. record.

MIMULUS ACUTIDENS

"Kings River monkeyflower"

Family: Scrophulariaceae

Life Form: Annual herb

Blooms: April-July

CNPS List: [3] More information is needed.

R-E-D: ?-?-3

State: [None] No state status

Federal: [None] No federal status

Counties: Fresno, Madera, Tulare

Quads: General Grant Grove (354B), Miramonte (355A), Verplank Ridge (376D), Auberry (397C), White Chief Mtn. (418A)

Habitat: Cismontane woodland, Lower montane coniferous forest

Elevation: 305-1,220 m.

Notes: Move to List 4? Location, rarity, and endangerment information needed, especially quads for FRE and TUL counties. Many misidentifications of Sequoia-Kings Canyon NP plants. A synonym of *M. inconspicuus* in The Jepson Manual. See Bulletin of the California Academy of Sciences 1:117 (1885) for original description, and Annals of the Missouri Botanical Garden 11(2-3):202-203 (1924) for taxonomic treatment.

MIMULUS GRACILIPES

"slender-stalked monkeyflower"

Family: Scrophulariaceae

Life Form: Annual herb

Blooms: April-June

CNPS List: [1B] R/T/E in CA and elsewhere

R-E-D: 2-2-3

State: [None] No state status

Federal: [None] No federal status

Counties: Fresno, Mariposa, Tuolumne

Quads: Miramonte (355A), Sacate Ridge (376B), Trimmer (377A), Auberry (397C), Mariposa (419B)

Habitat: Chaparral, Cismontane woodland, Lower montane coniferous forest / decomposed granitic, often in burned or disturbed areas

Elevation: 500-1,300 m.

Notes: Need quads for TUO Co. Threatened by logging, grazing, vehicles, and non-native plants. See Proceedings of the American Academy of Arts and Sciences 26:176 (1891) for original description, Annals of the Missouri

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Auberry Quad

CALYPTRIDIUM PULCHELLUM

"Mariposa pussypaws"

Family: Portulacaceae

Life Form: Annual herb
CNPS List: [1B] R/T/E in CA and elsewhere
State: [None] No state status
Federal: [FT] Federally listed as Threatened (09/14/98)
Counties: Fresno, Madera, Mariposa
Quads: Auberry (397C), O'Neals (398B), Bass Lake (418C), Ahwahnee (418D), Mariposa (419B)
Habitat: Chaparral, Cismontane woodland / sandy or gravelly, granitic
Elevation: 400-1,220 m.
Notes: Known from fewer than ten occurrences. Threatened by development, grazing, and vehicles. USFWS uses the name *Cistanthe pulchella*. See Bulletin of the Torrey Botanical Club 29:79 (1902) for original description, Leaflets of Western Botany 2(13):222-225 (1940) for revised nomenclature, Brittonia 27:197-208 (1975) for taxonomic treatment, and Madrono 28(3):188 (1981) for distributional information.

CARPENTERIA CALIFORNICA

"tree-anemone"

Family: Philadelphaceae

Life Form: Shrub (evergreen)
CNPS List: [1B] R/T/E in CA and elsewhere
State: [CT] State listed as Threatened (01/90)
Federal: [None] No federal status
Counties: Fresno, Madera
Quads: Trimmer (377A), Dinkey Creek (396C), Cascadel Point (397B), Auberry (397C), Shaver Lake (397D), North Fork (398A), Millerton Lake East (398D)
Habitat: Chaparral, Cismontane woodland / usually granitic
Elevation: 340-1,340 m.
Notes: Known from only seven occurrences. There are historical reports of introduced plants in MAD Co. Threatened by development, road construction, logging, vehicles, and overgrazing. Special management is necessary since reproduction is fire dependent. Protected in part at Carpenteria BA (USFS). See Aliso 2(2):115-118 (1950) for species account, and Fremontia 10(4):21-22 (1983) for discussion of propagation.

JENSIA YOSEMITANA

"Yosemite tarplant"

Family: Asteraceae

Life Form: Annual herb
CNPS List: [3] More information is needed.
State: [None] No state status
Federal: [None] No federal status
Counties: Amador, Fresno, Madera [?], Mariposa, Tulare, Tuolumne
Quads: Lodgepole (353C), Auberry (397C), Shaver Lake (397D), Mariposa (419B), Merced Peak (436B), Half Dome (437A), Ten Lakes (455A), Hetch Hetchy Reservoir (455B), Yosemite Falls (455D), Lake Eleanor (456A), Dardanelle (490D), Garnet Hill (492A)
Habitat: Lower montane coniferous forest, Meadows
Elevation: 1,200-2,300 m.
Notes: Move to List 4? Easily overlooked; location and rarity information needed. Does plant occur in MAD Co.? A synonym of *Madia yosemitana* in The Jepson Manual. See Proceedings of the American Academy of Arts and

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Millerton Lake East Quad

GRATIOLA HETEROSEPALA (cont.)

Dales (628D), West Of Snowstorm Mtn. (639B), Swains Hole (643A), Old Station (643B), Bullard Lake (659C), Cable Mtn. (661A), Murken Bench (661C), Timbered Crater (678B), Pittville (678D), Eagle Peak (690C), Washington Mtn. (693B), Dead Horse Reservoir (709A), Whittemore Ridge (709B), Big Sage Reservoir (709C), Mahogany Ridge (709D), Boles Meadows West (710B), Ambrose (710C), Rimrock Lake (711B), Spaulding Butte (711C), Knobcone Butte (711D), Medicine Lake (713D), South Mtn. (726C), Pothole Valley (727C), Hager Basin (727D)

Habitat: Marshes and Swamps (lake margins), Vernal pools / clay

Elevation: 10-2,375 m.

Notes: Threatened by agriculture, development, grazing, trampling, and vehicles. Known from one occurrence in OR, where state listed as Threatened. USFS and BLM have completed a draft conservation strategy. Lassen NF has adopted species management guidelines. See Madrono 12(5):150-152 (1954) for original description.

ORCUTTIA INAEQUALIS

"San Joaquin Valley Orcutt grass"

Family: Poaceae

Life Form: Annual herb

Blooms: April-September

CNPS List: [1B] R/T/E in CA and elsewhere

R-E-D: 2-3-3

State: [CE] State listed as Endangered (09/79)

Federal: [FT] Federally listed as Threatened (03/26/97)

Counties: Fresno, Madera, Merced, Stanislaus [extirpated], Tulare

Quads: Ivanhoe (333B) [extirpated], Monson (334A), Wahtoke (356B) [extirpated], Friant (378B), Lanes Bridge (379A), Fresno North (379D) [extirpated], Millerton Lake East (398D), Daulton (399C), Le Grand (400B), Kismet (400D) [extirpated], Owens Reservoir (420C), Haystack Mtn. (421A), Yosemite Lake (421B), Merced (421C), Planada (421D), Cressey (422B) [extirpated], Paulsell (441B) [extirpated], Montpelier (441C) [extirpated], Waterford (442A) [extirpated], Denair (442D) [extirpated]

Habitat: Vernal pools

Elevation: 30-755 m.

Notes: Seriously threatened by agriculture, development, overgrazing, channelization, and non-native plants. See Madrono 3(6):229 (1936) for original description, and American Journal of Botany 69:1082-1095 (1982) for taxonomic treatment.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Millerton Lake East Quad

CARPENTERIA CALIFORNICA
"tree-anemone"

Family: Philadelphaceae

Life Form: Shrub (evergreen) **Blooms:** May-July
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 3-2-3
State: [CT] State listed as Threatened (01/90)
Federal: [None] No federal status
Counties: Fresno, Madera
Quads: Trimmer (377A), Dinkey Creek (396C), Cascadel Point (397B), Auberry (397C), Shaver Lake (397D), North Fork (398A), Millerton Lake East (398D)
Habitat: Chaparral, Cismontane woodland / usually granitic
Elevation: 340-1,340 m.
Notes: Known from only seven occurrences. There are historical reports of introduced plants in MAD Co. Threatened by development, road construction, logging, vehicles, and overgrazing. Special management is necessary since reproduction is fire dependent. Protected in part at Carpenteria BA (USFS). See Aliso 2(2):115-118 (1950) for species account, and Fremontia 10(4):21-22 (1983) for discussion of propagation.

CASTILLEJA CAMPESTRIS SSP. SUCCULENTA
"succulent owl's-clover"

Family: Scrophulariaceae

Life Form: Annual herb, hemiparasitic **Blooms:** April-May
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 2-2-3
State: [CE] State listed as Endangered (09/79)
Federal: [FT] Federally listed as Threatened (03/26/97)
Counties: Fresno, Madera, Merced, Mariposa, San Joaquin, Stanislaus
Quads: Humphreys Station (377B), Friant (378B), Round Mountain (378D), Lanes Bridge (379A), Fresno North (379D) [extirpated], Millerton Lake West (398C), Millerton Lake East (398D), Daulton (399C), Le Grand (400B), Owens Reservoir (420C), Haystack Mtn. (421A), Yosemite Lake (421B), Merced (421C), Planada (421D), Winton (422A), Cressey (422B), Snelling (440C), Merced Falls (440D), Cooperstown (441A), Lockeford (478B)
Habitat: Vernal pools (often acidic)
Elevation: 50-750 m.
Notes: Threatened by urbanization, agriculture, flood control, grazing, and trampling. See Leaflets of Western Botany 1(19):228-229 (1936) for original description, and Systematic Botany 16(4):644-666 (1991) for revised nomenclature.

GRATIOLA HETEROSEPALA
"Boggs Lake hedge-hyssop"

Family: Scrophulariaceae

Life Form: Annual herb **Blooms:** April-August
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 1-2-2
State: [CE] State listed as Endangered (11/78)
Federal: [None] No federal status
Counties: Fresno, Lake, Lassen, Madera, Merced, Modoc, Placer, Sacramento, Shasta, Siskiyou, San Joaquin, Solano, Tehama, Oregon
Quads: North Fork (398A), Millerton Lake East (398D), Haystack Mtn. (421A), Sloughouse (495B), Goose Creek (495D), Elk Grove (496A), Dozier (498D), Buffalo Creek (511C), Rio Linda (512B) [extirpated], Carmichael (512D), Rocklin (527C), Lincoln (528A), Pleasant Grove (528C), Roseville (528D), Middletown (533D), Kelseyville (534A), Richardson Springs NW (593B), Corning (594B), Tuscan Buttes NE (628A), Balls Ferry (628B), Bend (628C),

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
North Fork Quad

CARPENTERIA CALIFORNICA
"tree-anemone"

Family: Philadelphaceae

Life Form: Shrub (evergreen) **Blooms:** May-July
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 3-2-3
State: [CT] State listed as Threatened (01/90)
Federal: [None] No federal status
Counties: Fresno, Madera
Quads: Trimmer (377A), Dinkey Creek (396C), Cascadel Point (397B), Auberry (397C), Shaver Lake (397D), North Fork (398A), Millerton Lake East (398D)
Habitat: Chaparral, Cismontane woodland / usually granitic
Elevation: 340-1,340 m.
Notes: Known from only seven occurrences. There are historical reports of introduced plants in MAD Co. Threatened by development, road construction, logging, vehicles, and overgrazing. Special management is necessary since reproduction is fire dependent. Protected in part at Carpenteria BA (USFS). See Aliso 2(2):115-118 (1950) for species account, and Fremontia 10(4):21-22 (1983) for discussion of propagation.

GRATIOLA HETEROSEPALA
"Boggs Lake hedge-hyssop"

Family: Scrophulariaceae

Life Form: Annual herb **Blooms:** April-August
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 1-2-2
State: [CE] State listed as Endangered (11/78)
Federal: [None] No federal status
Counties: Fresno, Lake, Lassen, Madera, Merced, Modoc, Placer, Sacramento, Shasta, Siskiyou, San Joaquin, Solano, Tehama, Oregon
Quads: North Fork (398A), Millerton Lake East (398D), Haystack Mtn. (421A), Sloughhouse (495B), Goose Creek (495D), Elk Grove (496A), Dozier (498D), Buffalo Creek (511C), Rio Linda (512B) [extirpated], Carmichael (512D), Rocklin (527C), Lincoln (528A), Pleasant Grove (528C), Roseville (528D), Middletown (533D), Kelseyville (534A), Richardson Springs NW (593B), Corning (594B), Tuscan Buttes NE (628A), Balls Ferry (628B), Bend (628C), Dales (628D), West Of Snowstorm Mtn. (639B), Swains Hole (643A), Old Station (643B), Bullard Lake (659C), Cable Mtn. (661A), Murken Bench (661C), Timbered Crater (678B), Pittville (678D), Eagle Peak (690C), Washington Mtn. (693B), Dead Horse Reservoir (709A), Whittemore Ridge (709B), Big Sage Reservoir (709C), Mahogany Ridge (709D), Boles Meadows West (710B), Ambrose (710C), Rimrock Lake (711B), Spaulding Butte (711C), Knobcone Butte (711D), Medicine Lake (713D), South Mtn. (726C), Pothole Valley (727C), Hager Basin (727D)
Habitat: Marshes and Swamps (lake margins), Vernal pools / clay
Elevation: 10-2,375 m.
Notes: Threatened by agriculture, development, grazing, trampling, and vehicles. Known from one occurrence in OR, where state listed as Threatened. USFS and BLM have completed a draft conservation strategy. Lassen NF has adopted species management guidelines. See Madrono 12(5):150-152 (1954) for original description.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Cascadel Point Quad

LUPINUS CITRINUS VAR. *CITRINUS*
"orange lupine"

Family: Fabaceae

Life Form: Annual herb

Blooms: April-July

CNPS List: [1B] R/T/E in CA and elsewhere

R-E-D: 2-2-3

State: [None] No state status

Federal: [None] No federal status

Counties: Fresno, Madera

Quads: Trimmer (377A), Dinkey Creek (396C), Musick Mtn. (397A), Cascadel Point (397B), Auberry (397C), Shaver Lake (397D), O'Neals (398B), Ahwahnee (418D)

Habitat: Chaparral, Cismontane woodland, Lower montane coniferous forest / granitic

Elevation: 380-1,700 m.

Notes: Threatened by development, road widening, vehicles, grazing, and logging. See Proceedings of the California Academy of Sciences I 7:93 (1877) for original description, and Madrono 28(3):184 for first MAD Co. record.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Cascadel Point Quad

CAREX PRATICOLA
"meadow sedge"

Family: Cyperaceae

Life Form: Perennial herb
CNPS List: [2] R/T/E in CA, but more common elsewhere
State: [None] No state status
Federal: [None] No federal status
Counties: Del Norte, Humboldt, Madera, Mono, Tuolumne, Idaho, Oregon, Washington, widespread outside of California
Quads: Cascadel Point (397B), Tioga Pass (454A), Tiltill Mtn. (472C), Grouse Mtn. (670C), Maple Creek (671D), Eureka (672C), Porcupine Butte (696A), Bark Shanty Gulch (704A), Holter Ridge (705C), Johnsons (705D), Orick (706D), Crescent City (740C)
Habitat: Meadows (mesic)
Elevation: 0-3,200 m.
Notes: On review list in OR.

CARPENTERIA CALIFORNICA
"tree-anemone"

Family: Philadelphaceae

Life Form: Shrub (evergreen)
CNPS List: [1B] R/T/E in CA and elsewhere
State: [CT] State listed as Threatened (01/90)
Federal: [None] No federal status
Counties: Fresno, Madera
Quads: Trimmer (377A), Dinkey Creek (396C), Cascadel Point (397B), Auberry (397C), Shaver Lake (397D), North Fork (398A), Millerton Lake East (398D)
Habitat: Chaparral, Cismontane woodland / usually granitic
Elevation: 340-1,340 m.
Notes: Known from only seven occurrences. There are historical reports of introduced plants in MAD Co. Threatened by development, road construction, logging, vehicles, and overgrazing. Special management is necessary since reproduction is fire dependent. Protected in part at Carpenteria BA (USFS). See Aliso 2(2):115-118 (1950) for species account, and Fremontia 10(4):21-22 (1983) for discussion of propagation.

COLLOMIA RAWSONIANA
"flaming trumpet"

Family: Polemoniaceae

Life Form: Perennial herb (rhizomatous)
CNPS List: [1B] R/T/E in CA and elsewhere
State: [None] No state status
Federal: [None] No federal status
Counties: Madera, Mariposa
Quads: Musick Mtn. (397A), Cascadel Point (397B), Shuteye Peak (417C), Mammoth Pool Dam (417D), White Chief Mtn. (418A), Bass Lake (418C), Ahwahnee (418D)
Habitat: Lower montane coniferous forest, Meadows, Riparian forest / mesic
Elevation: 780-2,200 m.
Notes: Need quads for MPA Co. Potentially threatened by hydroelectric development, grazing, and logging. Interagency agreement has been established between USFWS and USFS, and Sierra NF has adopted species management guidelines. See American Midland Naturalist 31:216-231 (1944) for original description.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Musick Mountain Quad

COLLOMIA RAWSONIANA
"flaming trumpet"

Family: Polemoniaceae

Life Form: Perennial herb (rhizomatous) **Blooms:** July-August
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 2-2-3
State: [None] No state status
Federal: [None] No federal status
Counties: Madera, Mariposa
Quads: Musick Mtn. (397A), Cascadel Point (397B), Shuteye Peak (417C), Mammoth Pool Dam (417D), White Chief Mtn. (418A), Bass Lake (418C), Ahwahnee (418D)
Habitat: Lower montane coniferous forest, Meadows, Riparian forest / mesic
Elevation: 780-2,200 m.
Notes: Need quads for MPA Co. Potentially threatened by hydroelectric development, grazing, and logging. Interagency agreement has been established between USFWS and USFS, and Sierra NF has adopted species management guidelines. See American Midland Naturalist 31:216-231 (1944) for original description.

LUPINUS CITRINUS VAR. *CITRINUS*
"orange lupine"

Family: Fabaceae

Life Form: Annual herb **Blooms:** April-July
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 2-2-3
State: [None] No state status
Federal: [None] No federal status
Counties: Fresno, Madera
Quads: Trimmer (377A), Dinkey Creek (396C), Musick Mtn. (397A), Cascadel Point (397B), Auberry (397C), Shaver Lake (397D), O'Neals (398B), Ahwahnee (418D)
Habitat: Chaparral, Cismontane woodland, Lower montane coniferous forest / granitic
Elevation: 380-1,700 m.
Notes: Threatened by development, road widening, vehicles, grazing, and logging. See Proceedings of the California Academy of Sciences I 7:93 (1877) for original description, and Madrono 28(3):184 for first MAD Co. record.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Huntington Lake Quad

UTRICULARIA INTERMEDIA

"flat-leaved bladderwort"

Family: Lentibulariaceae

Life Form: Perennial herb (stoloniferous), aquatic **Blooms:** July-August
CNPS List: [2] R/T/E in CA, but more common elsewhere **R-E-D:** 2-2-1
State: [None] No state status
Federal: [None] No federal status
Counties: Butte, Fresno, Modoc, Plumas, Tulare, Idaho, Nevada, Utah, Washington,
widespread outside of California
Quads: Huntington Lake (396B), Florence Lake (415C), Kaiser Peak (416C),
Johnsville (588C), Blairsden (588D), Storrie (591A), Jonesville (607C),
Red Cinder (624B), Chester (624C), Mt. Harkness (625A), Reading Peak
(625B), Stover Mtn. (625D), Egg Lake (695D)
Habitat: Bogs and fens, Meadows (mesic), Marshes and Swamps (lake margins)
Elevation: 1,200-2,700 m.
Notes: Need quads for TUL Co. State-listed as Sensitive in WA. See Madrono
22(2):74-84 (1973) for taxonomic treatment.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Huntington Lake Quad

EPILOBIUM HOWELLII

"subalpine fireweed"

Family: Onagraceae

Life Form: Perennial herb (stoloniferous) **Blooms:** July-August
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 3-1-3
State: [None] No state status
Federal: [None] No federal status
Counties: Fresno, Mono, Sierra
Quads: Dogtooth Peak (396A), Huntington Lake (396B), Mt. Givens (416D), Sattley (571C)
Habitat: Meadows, Subalpine coniferous forest / mesic
Elevation: 2,000-2,700 m.
Notes: Known from only four occurrences. Rarity and endangerment information needed. Need quads for MNO Co. See Phytologia 73(6):460-462 (1992) for original description.

HULSEA BREVIFOLIA

"short-leaved hulsea"

Family: Asteraceae

Life Form: Perennial herb **Blooms:** May-August
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 2-2-3
State: [None] No state status
Federal: [None] No federal status
Counties: Fresno, Madera, Mariposa, Tulare, Tuolumne
Quads: Muir Grove (354A), Cedar Grove (374C), Dogtooth Peak (396A), Huntington Lake (396B), Kaiser Peak (416C), Little Shuteye Peak (417B), White Chief Mtn. (418A), Crystal Crag (435D), Half Dome (437A), El Capitan (437B), Wawona (437C), Mariposa Grove (437D), Tenaya Lake (454C), Tamarack Flat (455C), Yosemite Falls (455D)
Habitat: Lower montane coniferous forest, Upper montane coniferous forest / granitic or volcanic, gravelly or sandy
Elevation: 1,500-3,200 m.
Notes: Threatened by vehicles, logging, and road maintenance. See Proceedings of the American Academy of Arts and Sciences 7:359 (1867) for original description, and Brittonia 27(3):228-244 (1975) for taxonomic treatment.

LINANTHUS SERRULATUS

"Madera linanthus"

Family: Polemoniaceae

Life Form: Annual herb **Blooms:** April-May
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 2-2-3
State: [None] No state status
Federal: [None] No federal status
Counties: Fresno, Kern, Madera, Mariposa, Tulare
Quads: Alta Sierra (261A), Glennville (261B), Camp Wishon (308B), Success Dam (309C), Kaweah (332B), Shadequarter Mtn. (354C), Sacate Ridge (376B), Luckett Mtn. (376C), Pine Flat Dam (377D), Madera (380A), Huntington Lake (396B), Millerton Lake West (398C), Knowles (399A), Raymond (399B), Ahwahnee (418D), Mariposa (419B), Catheys Valley (420A)
Habitat: Cismontane woodland, Lower montane coniferous forest
Elevation: 300-1,300 m.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Dogtooth Peak Quad

SPHAGNUM STRICTUM
"pale peat-moss"

Family: Sphagnaceae

Life Form: Moss

Blooms: not applicable

CNPS List: [2] R/T/E in CA, but more common elsewhere

R-E-D: 3-1-1

State: [None] No state status

Federal: [None] No federal status

Counties: Fresno, widespread outside of California

Quads: Dogtooth Peak (396A)

Habitat: Subalpine coniferous forest (soil, lake margins)

Elevation: 2,600-2,800 m.

Notes: Known in CA from only one occurrence at Dinkey Lakes, Sierra NF.

Remarkably disjunct from eastern U.S. See Musc. Allegh. p. 49 (1846) for original description.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Dogtooth Peak Quad

CAREX LIMOSA
"shore sedge"

Family: Cyperaceae

Life Form: Perennial herb (rhizomatous) **Blooms:** June-August
CNPS List: [2] R/T/E in CA, but more common elsewhere **R-E-D:** 2-2-1
State: [None] No state status
Federal: [None] No federal status
Counties: Butte, El Dorado, Fresno, Lassen, Plumas, Siskiyou, Tuolumne, Nevada,
widespread outside of California
Quads: Dogtooth Peak (396A), Lake Eleanor (456A), Freel Peak (522C), Loon Lake
(524A), Dogwood Peak (590D), Jonesville (607C), Belden (607D), Butte
Meadows (608D), Mt. Harkness (625A), Reading Peak (625B), Jess Valley
(674A), Seven Lakes Basin (682B)
Habitat: Bogs and fens, Lower montane coniferous forest, Meadows, Marshes and
Swamps, Upper montane coniferous forest
Elevation: 1,200-2,700 m.
Notes: Possibly more widespread in the Sierra Nevada.

EPILOBIUM HOWELLII
"subalpine fireweed"

Family: Onagraceae

Life Form: Perennial herb (stoloniferous) **Blooms:** July-August
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 3-1-3
State: [None] No state status
Federal: [None] No federal status
Counties: Fresno, Mono, Sierra
Quads: Dogtooth Peak (396A), Huntington Lake (396B), Mt. Givens (416D), Sattley
(571C)
Habitat: Meadows, Subalpine coniferous forest / mesic
Elevation: 2,000-2,700 m.
Notes: Known from only four occurrences. Rarity and endangerment information
needed. Need quads for MNO Co. See Phytologia 73(6):460-462 (1992) for
original description.

HULSEA BREVIFOLIA
"short-leaved hulsea"

Family: Asteraceae

Life Form: Perennial herb **Blooms:** May-August
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 2-2-3
State: [None] No state status
Federal: [None] No federal status
Counties: Fresno, Madera, Mariposa, Tulare, Tuolumne
Quads: Muir Grove (354A), Cedar Grove (374C), Dogtooth Peak (396A), Huntington
Lake (396B), Kaiser Peak (416C), Little Shuteye Peak (417B), White Chief
Mtn. (418A), Crystal Crag (435D), Half Dome (437A), El Capitan (437B),
Wawona (437C), Mariposa Grove (437D), Tenaya Lake (454C), Tamarack Flat
(455C), Yosemite Falls (455D)
Habitat: Lower montane coniferous forest, Upper montane coniferous forest /
granitic or volcanic, gravelly or sandy
Elevation: 1,500-3,200 m.
Notes: Threatened by vehicles, logging, and road maintenance. See Proceedings of
the American Academy of Arts and Sciences 7:359 (1867) for original
description, and Brittonia 27(3):228-244 (1975) for taxonomic treatment.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Ward Mountain Quad

CAMISSONIA SIERRAE SSP. *ALTICOLA*
"Mono Hot Springs evening-primrose"

Family: Onagraceae

Life Form: Annual herb **Blooms:** May-August
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 2-2-3
State: [None] No state status
Federal: [None] No federal status
Counties: Fresno, Madera, Mariposa [?]
Quads: Ward Mountain (395B), Graveyard Peak (415B), Florence Lake (415C), Mt. Givens (416D), Squaw Dome (417A), Little Shuteye Peak (417B), Mammoth Pool Dam (417D), Merced Peak (436B) [?]
Habitat: Lower montane coniferous forest, Upper montane coniferous forest / granitic, gravel and sand pans
Elevation: 1,340-2,410 m.
Notes: Known from approximately fifteen occurrences. MPA Co. record (436B) needs verification. See Contributions from the U.S. National Herbarium 37(5):329 (1969) for original description.

SPHENOPHOLIS OBTUSATA
"prairie wedge grass"

Family: Poaceae

Life Form: Perennial herb **Blooms:** April-July
CNPS List: [2] R/T/E in CA, but more common elsewhere **R-E-D:** 2-2-1
State: [None] No state status
Federal: [None] No federal status
Counties: Amador, Fresno, Inyo, Mono, Riverside, San Bernardino, San Diego [?], Tulare, widespread outside of California
Quads: Moonridge (105A), San Bernardino South (107D), Fairview (284B), Ward Mountain (395B), Laws (413A), Mt. Givens (416D), Bridgeport (487C), Mt. Patterson (488A), Pine Grove (493B), Amador City (494A), Jackson (494D)
Habitat: Cismontane woodland, Meadows / mesic
Elevation: 300-2,000 m.
Notes: Does plant occur in SDG Co.? Threatened by grazing and hydrological alterations. See Rhodora 8(92):137-146 (1906) for discussion of genus.

TRIFOLIUM BOLANDERI
"Bolander's clover"

Family: Fabaceae

Life Form: Perennial herb **Blooms:** June-August
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 2-2-3
State: [None] No state status
Federal: [None] No federal status
Counties: Fresno, Madera, Mariposa
Quads: Patterson Mtn. (376A), Ward Mountain (395B), Courtright Reservoir (395C), Nelson Mtn. (396D), Squaw Dome (417A), Little Shuteye Peak (417B), White Chief Mtn. (418A), Bass Lake (418C), Timber Knob (436D), Half Dome (437A), El Capitan (437B)
Habitat: Lower montane coniferous forest, Meadows, Upper montane coniferous forest / mesic
Elevation: 2,075-2,600 m.
Notes: Threatened by grazing and trampling, and possibly threatened by logging. See Proceedings of the American Academy of Arts and Sciences 7:335 (1868) for original description, and Madrono 40(3):166-173 (1993) for ecological discussion.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Florence Lake Quad

CAMISSONIA SIERRAE SSP. *ALTICOLA*

"Mono Hot Springs evening-primrose"

Family: Onagraceae

Life Form: Annual herb **Blooms:** May-August
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 2-2-3
State: [None] No state status
Federal: [None] No federal status
Counties: Fresno, Madera, Mariposa [?]
Quads: Ward Mountain (395B), Graveyard Peak (415B), Florence Lake (415C), Mt. Givens (416D), Squaw Dome (417A), Little Shuteye Peak (417B), Mammoth Pool Dam (417D), Merced Peak (436B) [?]
Habitat: Lower montane coniferous forest, Upper montane coniferous forest / granitic, gravel and sand pans
Elevation: 1,340-2,410 m.
Notes: Known from approximately fifteen occurrences. MPA Co. record (436B) needs verification. See Contributions from the U.S. National Herbarium 37(5):329 (1969) for original description.

UTRICULARIA INTERMEDIA

"flat-leaved bladderwort"

Family: Lentibulariaceae

Life Form: Perennial herb (stoloniferous), aquatic **Blooms:** July-August
CNPS List: [2] R/T/E in CA, but more common elsewhere **R-E-D:** 2-2-1
State: [None] No state status
Federal: [None] No federal status
Counties: Butte, Fresno, Modoc, Plumas, Tulare, Idaho, Nevada, Utah, Washington, widespread outside of California
Quads: Huntington Lake (396B), Florence Lake (415C), Kaiser Peak (416C), Johnsville (588C), Blairsdon (588D), Storrie (591A), Jonesville (607C), Red Cinder (624B), Chester (624C), Mt. Harkness (625A), Reading Peak (625B), Stover Mtn. (625D), Egg Lake (695D)
Habitat: Bogs and fens, Meadows (mesic), Marshes and Swamps (lake margins)
Elevation: 1,200-2,700 m.
Notes: Need quads for TUL Co. State-listed as Sensitive in WA. See Madrono 22(2):74-84 (1973) for taxonomic treatment.

VIOLA PINETORUM SSP. *GRISEA*

"grey-leaved violet"

Family: Violaceae

Life Form: Perennial herb **Blooms:** April-July
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 3-1-3
State: [None] No state status
Federal: [None] No federal status
Counties: Fresno, Kern, San Bernardino, Tulare
Quads: Moonridge (105A), Big Bear City (131D), Bear Mountain (213B), Sirretta Peak (284A), Monache Mountain (306B), Templeton Mtn. (329C), Kern Peak (330D), Florence Lake (415C)
Habitat: Meadows, Subalpine coniferous forest, Upper montane coniferous forest
Elevation: 1,500-3,400 m.
Notes: Known from approximately ten occurrences; rarely collected. Needs more field surveys. Threatened by grazing and trampling. See Flora of California 2(1):521 (1936) by W.L. Jepson for original description, and Phytologia 72(2):77-78 (1992) for revised nomenclature.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Graveyard Peak Quad

CAMISSONIA SIERRAE SSP. *ALTICOLA*

"Mono Hot Springs evening-primrose"

Family: Onagraceae

Life Form: Annual herb

Blooms: May-August

CNPS List: [1B] R/T/E in CA and elsewhere

R-E-D: 2-2-3

State: [None] No state status

Federal: [None] No federal status

Counties: Fresno, Madera, Mariposa [?]

Quads: Ward Mountain (395B), Graveyard Peak (415B), Florence Lake (415C), Mt. Givens (416D), Squaw Dome (417A), Little Shuteye Peak (417B), Mammoth Pool Dam (417D), Merced Peak (436B) [?]

Habitat: Lower montane coniferous forest, Upper montane coniferous forest / granitic, gravel and sand pans

Elevation: 1,340-2,410 m.

Notes: Known from approximately fifteen occurrences. MPA Co. record (436B) needs verification. See Contributions from the U.S. National Herbarium 37(5):329 (1969) for original description.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Mammoth Pool Dam Quad

LEWISIA DISEPALA

"Yosemite lewisia"

Family: Portulacaceae

Life Form: Perennial herb

Blooms: March-June

CNPS List: [1B] R/T/E in CA and elsewhere

R-E-D: 2-2-3

State: [None] No state status

Federal: [None] No federal status

Counties: Fresno, Kern, Madera, Mariposa, Tulare

Quads: Walker Pass (259A), White Dome (283C), Cannell Peak (284D), Hockett Peak (307B), Sentinel Peak (308D), Shaver Lake (397D), Balloon Dome (416B), Squaw Dome (417A), Mammoth Pool Dam (417D), Half Dome (437A), El Capitan (437B), Tenaya Lake (454C), Yosemite Falls (455D)

Habitat: Lower montane coniferous forest, Pinyon and juniper woodland, Upper montane coniferous forest / granitic, sandy

Elevation: 1,340-3,500 m.

Notes: Threatened by vehicles and logging. See North American Flora 21:328 (1932) for original description, and Madrono 37(1):63 (1990) for first KRN Co. record.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Mammoth Pool Dam Quad

CAMISSONIA SIERRAE SSP. *ALTICOLA*

"Mono Hot Springs evening-primrose"

Family: Onagraceae

Life Form: Annual herb

Blooms: May-August

CNPS List: [1B] R/T/E in CA and elsewhere

R-E-D: 2-2-3

State: [None] No state status

Federal: [None] No federal status

Counties: Fresno, Madera, Mariposa [?]

Quads: Ward Mountain (395B), Graveyard Peak (415B), Florence Lake (415C), Mt. Givens (416D), Squaw Dome (417A), Little Shuteye Peak (417B), Mammoth Pool Dam (417D), Merced Peak (436B) [?]

Habitat: Lower montane coniferous forest, Upper montane coniferous forest / granitic, gravel and sand pans

Elevation: 1,340-2,410 m.

Notes: Known from approximately fifteen occurrences. MPA Co. record (436B) needs verification. See Contributions from the U.S. National Herbarium 37(5):329 (1969) for original description.

COLLOMIA RAWSONIANA

"flaming trumpet"

Family: Polemoniaceae

Life Form: Perennial herb (rhizomatous)

Blooms: July-August

CNPS List: [1B] R/T/E in CA and elsewhere

R-E-D: 2-2-3

State: [None] No state status

Federal: [None] No federal status

Counties: Madera, Mariposa

Quads: Musick Mtn. (397A), Cascadel Point (397B), Shuteye Peak (417C), Mammoth Pool Dam (417D), White Chief Mtn. (418A), Bass Lake (418C), Ahwahnee (418D)

Habitat: Lower montane coniferous forest, Meadows, Riparian forest / mesic

Elevation: 780-2,200 m.

Notes: Need quads for MPA Co. Potentially threatened by hydroelectric development, grazing, and logging. Interagency agreement has been established between USFWS and USFS, and Sierra NF has adopted species management guidelines. See American Midland Naturalist 31:216-231 (1944) for original description.

ERYTHRONIUM PLURIFLORUM

"Shuteye Peak fawn lily"

Family: Liliaceae

Life Form: Perennial herb (bulbiferous)

Blooms: May-July

CNPS List: [1B] R/T/E in CA and elsewhere

R-E-D: 2-1-3

State: [None] No state status

Federal: [None] No federal status

Counties: Madera

Quads: Little Shuteye Peak (417B), Shuteye Peak (417C), Mammoth Pool Dam (417D)

Habitat: Meadows, Subalpine coniferous forest, Upper montane coniferous forest / granitic, rocky

Elevation: 2,300-2,550 m.

Notes: Known only from Chiquito Ridge and Shuteye Pk. in the San Joaquin River watershed; occurrences highly localized. See Madrono 37(4):261-273 (1990) for original description.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Squaw Dome Quad

TRIFOLIUM BOLANDERI

"Bolander's clover"

Family: Fabaceae

Life Form: Perennial herb

Blooms: June-August

CNPS List: [1B] R/T/E in CA and elsewhere

R-E-D: 2-2-3

State: [None] No state status

Federal: [None] No federal status

Counties: Fresno, Madera, Mariposa

Quads: Patterson Mtn. (376A), Ward Mountain (395B), Courtright Reservoir (395C), Nelson Mtn. (396D), Squaw Dome (417A), Little Shuteye Peak (417B), White Chief Mtn. (418A), Bass Lake (418C), Timber Knob (436D), Half Dome (437A), El Capitan (437B)

Habitat: Lower montane coniferous forest, Meadows, Upper montane coniferous forest / mesic

Elevation: 2,075-2,600 m.

Notes: Threatened by grazing and trampling, and possibly threatened by logging. See Proceedings of the American Academy of Arts and Sciences 7:335 (1868) for original description, and Madrono 40(3):166-173 (1993) for ecological discussion.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Squaw Dome Quad

CAMISSONIA SIERRAE SSP. *ALTICOLA*

"Mono Hot Springs evening-primrose"

Family: Onagraceae

Life Form: Annual herb **Blooms:** May-August
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 2-2-3
State: [None] No state status
Federal: [None] No federal status
Counties: Fresno, Madera, Mariposa [?]
Quads: Ward Mountain (395B), Graveyard Peak (415B), Florence Lake (415C), Mt. Givens (416D), Squaw Dome (417A), Little Shuteye Peak (417B), Mammoth Pool Dam (417D), Merced Peak (436B) [?]
Habitat: Lower montane coniferous forest, Upper montane coniferous forest / granitic, gravel and sand pans
Elevation: 1,340-2,410 m.
Notes: Known from approximately fifteen occurrences. MPA Co. record (436B) needs verification. See Contributions from the U.S. National Herbarium 37(5):329 (1969) for original description.

DIDYMODON NORRISII

"Norris's beard-moss"

Family: Pottiaceae

Life Form: Moss **Blooms:** not applicable
CNPS List: [2] R/T/E in CA, but more common elsewhere **R-E-D:** 2-2-2
State: [None] No state status
Federal: [None] No federal status
Counties: Humboldt, Lake, Madera, Tuolumne, Oregon
Quads: Squaw Dome (417A), Strawberry (474A), Hull Creek (474D), Bartlett Mtn. (549A), Upper Lake (549B), Lakeport (549C), Lucerne (549D), Lake Pillsbury (565B), Van Arsdale Reservoir (566A), Iaqua Buttes (653B), Korbel (671C)
Habitat: Cismontane woodland, Lower montane coniferous forest / intermittently mesic, rock
Elevation: 600-1,700 m.
Notes: See The Bryologist 102(1):112-115 (1999) for original description.

LEWISIA DISEPALA

"Yosemite lewisia"

Family: Portulacaceae

Life Form: Perennial herb **Blooms:** March-June
CNPS List: [1B] R/T/E in CA and elsewhere **R-E-D:** 2-2-3
State: [None] No state status
Federal: [None] No federal status
Counties: Fresno, Kern, Madera, Mariposa, Tulare
Quads: Walker Pass (259A), White Dome (283C), Cannell Peak (284D), Hockett Peak (307B), Sentinel Peak (308D), Shaver Lake (397D), Balloon Dome (416B), Squaw Dome (417A), Mammoth Pool Dam (417D), Half Dome (437A), El Capitan (437B), Tenaya Lake (454C), Yosemite Falls (455D)
Habitat: Lower montane coniferous forest, Pinyon and juniper woodland, Upper montane coniferous forest / granitic, sandy
Elevation: 1,340-3,500 m.
Notes: Threatened by vehicles and logging. See North American Flora 21:328 (1932) for original description, and Madrono 37(1):63 (1990) for first KRN Co. record.

California Native Plant Society's
Inventory of Rare and Endangered Plants of California

Full Data Report for the Selected Plants
Dinkey Creek Quad

BRUCHIA BOLANDERI

"Bolander's bruchia"

Family: Bruchianaceae

Life Form: Moss
Life Form: Moss
CNPS List: [2] R/T/E in CA, but more common elsewhere
State: [None] No state status
Federal: [None] No federal status
Counties: Fresno, Mariposa, Nevada, Plumas, Tehama, Tulare, Tuolumne, Oregon
Quads: Tobias Peak (285D), Dinkey Creek (396C), Half Dome (437A), Piute Mtn. (472D), Norden (555D), Onion Valley (589C), Reading Peak (625B), Lassen Peak (626A)
Habitat: Lower montane coniferous forest, Meadows, Upper montane coniferous forest / damp soil
Elevation: 1,700-2,800 m.
Notes: In vegetative state similar in appearance to *Leptobryum pyriforme*. Sporophytes distinctive. See *Memoirs of the California Academy of Sciences* 1:5 (1868) for original description.

CARPENTERIA CALIFORNICA

"tree-anemone"

Family: Philadelphaceae

Life Form: Shrub (evergreen)
Life Form: Shrub (evergreen)
CNPS List: [1B] R/T/E in CA and elsewhere
State: [CT] State listed as Threatened (01/90)
Federal: [None] No federal status
Counties: Fresno, Madera
Quads: Trimmer (377A), Dinkey Creek (396C), Cascadel Point (397B), Auberry (397C), Shaver Lake (397D), North Fork (398A), Millerton Lake East (398D)
Habitat: Chaparral, Cismontane woodland / usually granitic
Elevation: 340-1,340 m.
Notes: Known from only seven occurrences. There are historical reports of introduced plants in MAD Co. Threatened by development, road construction, logging, vehicles, and overgrazing. Special management is necessary since reproduction is fire dependent. Protected in part at Carpenteria BA (USFS). See *Aliso* 2(2):115-118 (1950) for species account, and *Fremontia* 10(4):21-22 (1983) for discussion of propagation.

LUPINUS CITRINUS VAR. *CITRINUS*

"orange lupine"

Family: Fabaceae

Life Form: Annual herb
Life Form: Annual herb
CNPS List: [1B] R/T/E in CA and elsewhere
State: [None] No state status
Federal: [None] No federal status
Counties: Fresno, Madera
Quads: Trimmer (377A), Dinkey Creek (396C), Musick Mtn. (397A), Cascadel Point (397B), Auberry (397C), Shaver Lake (397D), O'Neals (398B), Ahwahnee (418D)
Habitat: Chaparral, Cismontane woodland, Lower montane coniferous forest / granitic
Elevation: 380-1,700 m.
Notes: Threatened by development, road widening, vehicles, grazing, and logging. See *Proceedings of the California Academy of Sciences* I 7:93 (1877) for original description, and *Madrono* 28(3):184 for first MAD Co. record.

APPENDIX B

California Natural Diversity Database Query for the Big Creek ALP Study Area

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Dinkey Creek

Hydromantes platycephalus
Mount Lyell salamander
Element Code: AAAAD09020

-----List Status-----NDDB Element Ranks-----Other Lists-----
Federal: Species of Concern Global: G3 CDFG Status: SC
State: None State: S3

-----Habitat Associations-----
General: MASSIVE ROCK AREAS IN MIXED CONIFER, RED FIR, LODGEPOLE PINE, AND SUBALPINE HABITATS, 4000 TO 11,600 FEET IN ELEVATION.
Micro: ACTIVE ON THE SURFACE ONLY WHEN FREE WATER IS AVAILABLE, IN THE FORM OF SEEPS, DRIPS, OR SPRAY.

Occurrence No. 17 Map Index:15677 ---Dates Last Seen--- Lat/Long: 37°06'11" / 119°12'17" Township: 09S
Occ Rank: Unknown Element: 1941-06-14 UTM: Zone-11 N4108376 E304079 Range: 25E
Origin: Natural/Native occurrence Site: 1941-06-14 Precision: NON-SPECIFIC Section: 35 Qtr E
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1/5 mile Elevation: 7830 ft
Main Source: BRODE, J. 1980 (PERS)
Quad Summary: DINKEY CREEK (3711912/396C)
County Summary: FRESNO
SNA Summary:
Location: SUMMIT OF BALD MTN.
-----Comments-----
Distribution:
Ecological:
Threat:
General: 14 JUN 1941: MVZ 35050, COLLECTED BY THOMAS L. RODGERS AND LOWELL ADAMS.
Owner/Manager: UNKNOWN

Full Condensed Report - Multiple Records per Page
Dinkey Creek

<i>Empidonax traillii</i> willow flycatcher Element Code: ABPAE33040	—List Status—	—NDDB Element Ranks—	—Other Lists—
	Federal: None	Global: G5	CDFG Status:
	State: Endangered	State: S1S2	

—Habitat Associations—
General: (NESTING) INHABITS EXTENSIVE THICKETS OF LOW, DENSE WILLOWS ON EDGE OF WET MEADOWS, PONDS, OR BACKWATERS; 2000-8000 ELEV
Micro: REQUIRE DENSE WILLOW THICKETS FOR NESTING/ROOSTING. LOW, EXPOSED BRANCHES ARE USED FOR SINGING POSTS/HUNTING PERCHES.

Occurrence No. 31 Map Index:15690 —Dates Last Seen— Lat/Long: 37°01'57" / 119°11'13" Township: 10S
 Occ Rank: Unknown Element: 1982-06-00 UTM: Zone-11 N4100511 E305479 Range: 25E
 Origin: Natural/Native occurrence Site: 1986-07-03 Precision: NON-SPECIFIC Section: 25 Qtr NE
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Decreasing Radius: 1/5 mile Elevation: 5800 ft
 Main Source: SERENA, M. 1982 (LIT)
 Quad Summary: DINKEY CREEK (3711912/396C)
 County Summary: FRESNO
 SNA Summary:
 Location: LOST MEADOW, SW OF DINKEY CREEK RANGER STATION, SIERRA NATL FOREST.
 —Comments—
 Distribution:
 Ecological: HABITAT IS TWO SMALL PATCHES OF WILLOW; EDGES HEAVILY GRAZED IN THE SUMMER.
 Threat:
 General: DFG COLONY #FR13. TWO TERRITORIAL MALES OBSERVED IN 1982; NONE SEEN IN 1984-86.
 Owner/Manager: PVT

Occurrence No. 32 Map Index:15641 —Dates Last Seen— Lat/Long: 37°05'41" / 119°13'44" Township: 10S
 Occ Rank: None Element: 1982-06-00 UTM: Zone-11 N4107501 E301909 Range: 25E
 Origin: Natural/Native occurrence Site: 1986-07-02 Precision: NON-SPECIFIC Section: 03 Qtr NE
 Presence: Possibly Extirpated Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1/5 mile Elevation: 5920 ft
 Main Source: HARRIS, J. 1986 (LIT)
 Quad Summary: DINKEY CREEK (3711912/396C)
 County Summary: FRESNO
 SNA Summary:
 Location: MARKWOOD MEADOW, ABOUT 4.5 MILES WNW OF DINKEY CREEK RANGER STATION, SIERRA NATIONAL FOREST.
 —Comments—
 Distribution:
 Ecological:
 Threat: WILLOW AREA HEAVILY GRAZED AND VEHICLE ACCESS 100 M AWAY.
 General: DFG COLONY #FR12. ONE TERRITORIAL MALE OBSERVED IN 1982; NONE SEEN IN 1984-86.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 34 Map Index:15710 —Dates Last Seen— Lat/Long: 37°02'38" / 119°09'42" Township: 10S
 Occ Rank: Unknown Element: 1992-07-24 UTM: Zone-11 N4101722 E307756 Range: 26E
 Origin: Natural/Native occurrence Site: 1992-07-07 Precision: NON-SPECIFIC Section: 20 Qtr SW
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Decreasing Radius: 1/5 mile Elevation: 5560 ft
 Main Source: HARRIS, J. 1986 (LIT)
 Quad Summary: DINKEY CREEK (3711912/396C)
 County Summary: FRESNO
 SNA Summary:
 Location: DINKEY MEADOW, 1.5 MILES SSW OF DINKEY CREEK RANGER STATION, SIERRA NATIONAL FOREST.
 —Comments—
 Distribution:
 Ecological: ALTHOUGH COWBIRDS WERE PRESENT IN 1992, NO NEST PARASITISM WAS OBSERVED.
 Threat: THREATS INCLUDE HEAVY GRAZING, POTENTIAL INUNDATION BY PROPOSED DINKEY DAM, AND POTENTIAL NEST PARASITISM BY COWBIRDS.
 General: UP TO 6 TERRITORIAL MALES OBSERVED IN 1982; 3 PAIRS NESTED IN 1983; 1 NEST, 3 TERR MALES IN 1984; 3 TERR MALES IN 1985; 3 NESTS IN 1986; 2 NESTS IN 1987; ONE PAIR FLEDGED 2 YOUNG IN 1989; ONE TERRITORIAL MALE, BUT NO NESTS, IN 1992.
 Owner/Manager: PVT

Full Condensed Report - Multiple Records per Page
Dinkey Creek

<i>Lupinus citrinus</i> var. <i>citrinus</i> orange lupine Element Code: PDFAB2B103	-----List Status----- Federal: Species of Concern State: None	NDDB Element Ranks Global: G2T2 State: S2.2	-----Other Lists----- CNPS List: 1B R-E-D Code: 2-2-3
---	---	---	---

-----Habitat Associations-----
General: CHAPARRAL, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST. KNOWN ONLY FROM FRESNO AND MADERA COUNTIES.
Micro: ROCKY, DECOMPOSED GRANITIC OUTCROPS, USUALLY OPEN AREAS, ON FLAT TO ROLLING TERRAIN. 600-1350M.

Occurrence No. 56 Map Index:38722 ---Dates Last Seen--- Lat/Long: 37°02'17" / 119°14'52" Township: 10S
Occ Rank: Fair Element: 1995-07-06 UTM: Zone-11 N4101271 E300071 Range: 25E
Origin: Natural/Native occurrence Site: 1995-07-06 Precision: SPECIFIC Section: 28 Qtr NE
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 16.0 ac Elevation: 3600 ft
Main Source: WILSON, S. & E. LISKEY
Quad Summary: DINKEY CREEK (3711912/396C)*, SHAVER LAKE (3711913/397D)
County Summary: FRESNO
SNA Summary:
Location: 0.6-0.75 MI NE OF SOAPROOT SADDLE, UNDER POWERLINES.
-----Comments-----
Distribution:
Ecological: IN SANDY, GRAVELLY SOIL UNDER POWERLINES. GRANITE OUTCROP. PONDEROSA PINE FOREST WITH ARCTOSTAPHYLOS
MARIPOSA, ALLIUM FIMBRIATUM, LUPINUS STIVERSII, GITHOPSIS SPECULARIODES, STREPTANTHUS SP., BRODIEA SP.,
CENTARIUM SP., & MIMULUS SP..
Threat: TIMBER HARVESTING ACTIVITIES COULD THREATEN. OHV & RECREATION.
General: 240 PLANTS IN 1991 IN 2 SUBPOPULATIONS. THIRD SUBPOPULATION IN 1995 WITH APPROXIMATELY 225 INDIVIDUALS.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Dinkey Creek

Carpenteria californica
tree-anemone
Element Code: PDHDR04010

—List Status—	NDDB Element Ranks	—Other Lists—
Federal: None	Global: G2	CNPS List: 1B
State: Threatened	State: S2.2	R-E-D Code: 3-2-3

—Habitat Associations

General: CISMONTANE WOODLAND, CHAPARRAL. ENDEMIC TO FRESNO COUNTY, CALIFORNIA.
Micro: AN VERY LOCALIZED ENDEMIC FOUND ON WELL-DRAINED GRANITIC SOILS, MOSTLY ON N-FACING RAVINES AND DRAINAGES. 340-1340M.

Occurrence No. 5	Map Index:15646	—Dates Last Seen—	Lat/Long: 37°00'37" / 119°13'27"	Township: 11S
Occ Rank: Good		Element: XXXX-XX-XX	UTM: Zone-11 N4098125 E302111	Range: 25E
Origin: Natural/Native occurrence		Site: XXXX-XX-XX	Precision: SPECIFIC	Section: 03 Qtr NE
Presence: Presumed Extant			Symbol Type: POLYGON	Meridian: M
Trend: Unknown			Area: 1,165.5 ac	Elevation: 3200 ft
Main Source: HAMON, D. 1972 (MAP)				
Quad Summary: DINKEY CREEK (3711912/396C)				
County Summary: FRESNO				
SNA Summary:				
Location: ALONG BIG CREEK, JUST E OF BARNES MTN.				
—Comments—				
Distribution:				
Ecological:				
Threat: NUMEROUS 4WD & FIRE CONTROL RDS IN AREA. ALSO THREATENED BY COMPETITION W/WOODY SPECIES RESULTING FROM FIRE SUPPRESSION.				
General: UNKNOWN WHEN SEEN. GOOD SITE QUALITY ACCORDING TO STEBBINS (1987). AREA NEEDS PRESCRIBED BURN.				
Owner/Manager: USFS-SIERRA NF				

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Shaver Lake

Rana boylei
foothill yellow-legged frog
Element Code: AAABH01050

-----List Status-----NDDB Element Ranks-----Other Lists-----
Federal: Species of Concern Global: G3 CDFG Status: SC
State: None State: S2S3

-----Habitat Associations-----

General: PARTLY-SHADED, SHALLOW STREAMS & RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS.
Micro: NEED AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING. NEED AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.

Occurrence No. 19 Map Index:15568 ---Dates Last Seen--- Lat/Long: 37°02'02" / 119°17'20" Township: 10S
Occ Rank: Unknown Element: 1970-XX-XX UTM: Zone-11 N4100877 E296414 Range: 25E
Origin: Natural/Native occurrence Site: 1970-XX-XX Precision: NON-SPECIFIC Section: 30 Qtr NW
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 4320 ft
Main Source: MOYLE, P. 1972 (PERS)
Quad Summary: SHAVER LAKE (3711913/397D)
County Summary: FRESNO
SNA Summary:
Location: RUSH CR.
-----Comments-----
Distribution: FOUND MOSTLY IN SMALL PERMANENT FOOTHILL STREAMS HIGHER THAN 200 M ELEV, IN AREAS NOT OCCUPIED BY BULLFROGS.
Ecological:
Threat:
General: COLL BTWN JULY & SEPT.
Owner/Manager: USFS-SIERRA NF, PVT

Full Condensed Report - Multiple Records per Page
Shaver Lake

<i>Haliaeetus leucocephalus</i> bald eagle Element Code: ABNKC10010	-----List Status----- Federal: Threatened State: Endangered	-----NDDB Element Ranks----- Global: G4 State: S2	-----Other Lists----- CDFG Status:
---	---	---	---------------------------------------

-----Habitat Associations-----
General: (NESTING & WINTERING) OCEAN SHORE, LAKE MARGINS, & RIVERS FOR BOTH NESTING & WINTERING. MOST NESTS WITHIN 1 MI OF WATER.
Micro: NESTS IN LG, OLD-GROWTH, OR DOMINANT LIVE TREE W/OPEN BRANCHES, ESPECIALLY PONDEROSA PINE. ROOSTS COMMUNALLY IN WINTER.

Occurrence No. 231 Map Index:47011 ---Dates Last Seen--- Lat/Long: 37°06'51" / 119°16'47" Township: 09S
Occ Rank: Excellent Element: 2001-04-24 UTM: Zone-11 N4109784 E297423 Range: 25E
Origin: Natural/Native occurrence Site: 2001-04-24 Precision: SPECIFIC Section: 30 Qtr SE
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 80 meters Elevation: 5500 ft
Main Source: BYRD, S. 2001 (OBS)
Quad Summary: SHAVER LAKE (3711913/397D)
County Summary: FRESNO
SNA Summary:
Location: RAINBOW POINT, ON THE SOUTH END OF SHAVER LAKE
-----Comments-----
Distribution:
Ecological: HABITAT CONSISTS OF SIERRAN MIXED CONIFEROUS FOREST; SURROUNDED BY A MULTIPLE USE AREA (TIMBER HARVEST, CONTROLLED BURNING, INTENSE RECREATION, HUNTING, WOOD CUTTING, BOY SCOUT CAMP, SUMMER CABINS, HIGH-SPEED WATERCRAFT, & TWO GUN CLUBS).
Threat:
General: 2 NESTING ADULTS, 2 SUB-ADULTS, AND 2 YOUNG OF THE YEAR OBSERVED AT THIS NEST SITE ON 24 APR 2001.
Owner/Manager: SOUTHERN CAL EDISON

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Shaver Lake

Strix nebulosa
great gray owl
Element Code: ABNSB12040

—List Status—	NDDB Element Ranks	—Other Lists—
Federal: None	Global: G5	CDFG Status:
State: Endangered	State: S1	

—Habitat Associations—

General: (NESTING) RESIDENT OF MIXED CONIFER OR RED FIR FOREST HABITAT, IN OR ON EDGE OF MEADOWS.

Micro: REQUIRE LARGE DIAMETER SNAGS IN A FOREST WITH HIGH CANOPY CLOSURE, WHICH PROVIDE A COOL SUB-CANOPY MICROCLIMATE.

Occurrence No. 45	Map Index:43000	—Dates Last Seen—	Lat/Long: 37°06'01" / 119°17'28"	Township: 09S
Occ Rank: Excellent		Element: 1999-08-29	UTM: Zone-11 N4108259 E296372	Range: 25E
Origin: Natural/Native occurrence		Site: 1999-08-29	Precision: NON-SPECIFIC	Section: 31 Qtr SW
Presence: Presumed Extant			Symbol Type: POINT	Meridian: M
Trend: Unknown			Radius: 1/5 mile	Elevation: 5500 ft
Main Source: BYRD, S. 1999 (OBS)				
Quad Summary: SHAVER LAKE (3711913/397D)				
County Summary: FRESNO				
SNA Summary:				
Location: SWANSON MEADOWS, SOUTH OF SHAVER LAKE.				
—Comments—				
Distribution:				
Ecological: HABITAT CONSISTS OF BROKEN MONTANE MEADOW, WITH SCATTERED POCKETS OF 30-YEAR-OLD PINE PLANTATION. THE AREA HAS A HIGH AMOUNT OF MEADOW/PLANTATION EDGE.				
Threat:				
General: 3 JUVENILES OBSERVED, 29 AUG 1999.				
Owner/Manager: PVT-SOUTHERN CAL EDISON				

Full Condensed Report - Multiple Records per Page
Shaver Lake

Empidonax traillii
willow flycatcher
Element Code: ABPAE33040

-----List Status-----NDDB Element Ranks-----Other Lists-----
Federal: None Global: G5 CDFG Status:
State: Endangered State: S1S2

-----Habitat Associations-----
General: (NESTING) INHABITS EXTENSIVE THICKETS OF LOW, DENSE WILLOWS ON EDGE OF WET MEADOWS, PONDS, OR BACKWATERS; 2000-8000 ELEV
Micro: REQUIRE DENSE WILLOW THICKETS FOR NESTING/ROOSTING. LOW, EXPOSED BRANCHES ARE USED FOR SINGING POSTS/HUNTING PERCHES.

Occurrence No. 63 Map Index:21058 ---Dates Last Seen--- Lat/Long: 37°05'39" / 119°16'12" Township: 10S
Occ Rank: None Element: 1988-XX-XX UTM: Zone-11 N4107540 E298246 Range: 25E
Origin: Natural/Native occurrence Site: 1992-07-24 Precision: NON-SPECIFIC Section: 05 Qtr NE
Presence: Possibly Extirpated Symbol Type: POINT Meridian: M
Trend: Decreasing Radius: 1/5 mile Elevation: 5720 ft
Main Source: DEPT. OF FISH & GAME 1987 (OBS)
Quad Summary: SHAVER LAKE (3711913/397D)
County Summary: FRESNO
SNA Summary:
Location: POISON MEADOW, IN VICINITY OF DINKEY CREEK, SOUTH OF SHAVER LAKE, SIERRA NATIONAL FOREST.

-----Comments-----
Distribution:
Ecological: ALTHOUGH BROWN-HEADED COWBIRDS WERE PRESENT DURING THE 1992 BREEDING SEASON, NO NEST PARASITISM WAS OBSERVED.
Threat: THREATS INCLUDE MODERATE TO HEAVY GRAZING AND POTENTIAL NEST PARASITISM BY BROWN-HEADED COWBIRDS.
General: 6/11/84: 3 SINGING MALES OBSERVED; 5/14/85: 1 SINGING MALE OBSERVED; 7/2/86: 2 SINGING MALES OBSERVED; 1988: 1
PAIR OBSERVED NESTING (FIRST NEST UNSUCCESSFUL, SECOND NEST FLEDGED 3 YOUNG); 1989, 1991-92: NO WILLOW
FLYCATCHERS OBSERVED.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report -- Multiple Records per Page
Shaver Lake

Vulpes vulpes necator
Sierra Nevada red fox
Element Code: AMAJA03012

-----List Status-----NDDB Element Ranks-----Other Lists-----
Federal: Species of Concern Global: G5T3 CDFG Status:
State: Threatened State: S1

-----Habitat Associations-----

General: FOUND FROM THE CASCADES DOWN TO THE SIERRA NEVADA. FOUND IN A VARIETY OF HABITATS FROM WET MEADOWS TO FORESTED AREAS.
Micro: USE DENSE VEGETATION & ROCKY AREAS FOR COVER & DEN SITES. PREFER FORESTS INTERSPERSED W/ MEADOWS OR ALPINE FELL-FIELDS.

Occurrence No. 3 Map Index:15539 ---Dates Last Seen--- Lat/Long: 37°08'01" / 119°18'58" Township: 09S
Occ Rank: Unknown Element: 1965-04-02 UTM: Zone-11 N4112002 E294262 Range: 24E
Origin: Natural/Native occurrence Site: 1965-04-02 Precision: NON-SPECIFIC Section: 23 Qtr E
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 5400 ft
Main Source: SCHEMPF, P. & M. WHITE 1977 (LIT)
Quad Summary: MUSICK MTN. (3711923/397A)*, SHAVER LAKE (3711913/397D)
County Summary: FRESNO
SNA Summary:
Location: SHAVER LAKE HEAR ROCK HAVEN (N OF SHAVER LAKE HEIGHTS ON RT 168)
-----Comments-----
Distribution:
Ecological: PINE-DOUGLAS FIR-ABIES FOREST.
Threat:
General:
Owner/Manager: UNKNOWN

Full Condensed Report - Multiple Records per Page
Shaver Lake

Clemmys marmorata
western pond turtle
Element Code: ARAAD02030

-----List Status-----NDDB Element Ranks-----Other Lists-----
Federal: None Global: G3G4 CDFG Status: SC
State: None State: S3

-----Habitat Associations-----

General: A THOROUGHLY AQUATIC TURTLE OF PONDS, MARSHES, RIVERS, STREAMS & IRRIGATION DITCHES WITH AQUATIC VEGETATION.
Micro: NEED BASKING SITES AND SUITABLE (SANDY BANKS OR GRASSY OPEN FIELDS) UPLAND HABITAT FOR EGG-LAYING.

Occurrence No. 50 Map Index:32806 ---Dates Last Seen--- Lat/Long: 37°06'59" / 119°22'42" Township: 09S
Occ Rank: Excellent Element: 1993-07-21 UTM: Zone-11 N4110230 E288698 Range: 24E
Origin: Natural/Native occurrence Site: 1993-07-21 Precision: SPECIFIC Section: XX Qtr XX
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 338.0 ac Elevation: 2000 ft

Main Source: REPLOGLE, R. 1993 (OBS)
Quad Summary: AUBERRY (3711914/397C)*, SHAVER LAKE (3711913/397D), MUSICK MTN. (3711923/397A), CASCADEL POINT (3711924/397B)
County Summary: FRESNO
SNA Summary:
Location: JOSE CREEK, FROM SCE POWERHOUSE #3 TO THE SOUTH FOR APPROX. 6.0 MILES, JOSE BASIN.

-----Comments-----

Distribution: TURTLES FOUND IN POOLS THROUGHOUT ENTIRE 6 MILES OF STREAM.
Ecological: STREAM WITH POOLS, CHANNEL TYPE RANGED FROM STEEP BEDROCK TO FLAT SILTY.
Threat: BULLFROGS.
General: 7/21/93: 38 ADULTS, 10 JUVENILES, 6 HATCHLINGS OBSERVED BY R. REPLOGLE. 7/15/88: 8 CAPTURED & RELEASED BY R.W. HANSEN & D.C. HOLLAND AT SCE POWERHOUSE #3. UNKNOWN NUMBER OBSERVED BY R.W. HANSEN & D.C. HOLLAND AT JOSE BASIN RD. DATE UNKNOWN.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Shaver Lake

Lupinus citrinus var. *citrinus*
orange lupine
Element Code: PDFAB2B103

-----List Status-----NDDB Element Ranks-----Other Lists-----
Federal: Species of Concern Global: G2T2 CNPS List: 1B
State: None State: S2.2 R-E-D Code: 2-2-3

-----Habitat Associations-----

General: CHAPARRAL, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST. KNOWN ONLY FROM FRESNO AND MADERA COUNTIES.
Micro: ROCKY, DECOMPOSED GRANITIC OUTCROPS, USUALLY OPEN AREAS, ON FLAT TO ROLLING TERRAIN. 600-1350M.

Occurrence No. 15 Map Index:15526 ---Dates Last Seen--- Lat/Long: 37°02'05" / 119°19'31" Township: 10S
Occ Rank: Unknown Element: 1978-06-02 UTM: Zone-11 N4101042 E293186 Range: 24E
Origin: Natural/Native occurrence Site: 1978-06-02 Precision: SPECIFIC Section: 26 Qtr NW
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 8.7 ac Elevation: 3900 ft
Main Source: BARTEL, J. 1978 (OBS)
Quad Summary: SHAVER LAKE (3711913/397D)
County Summary: FRESNO
SNA Summary:
Location: PETERSEN RD, ABOUT 4 RD MI SE OF MOUNTAIN REST GUARD STATION, S OF PINE RIDGE.
-----Comments-----
Distribution:
Ecological: ON OPEN GRANITE SHEET IN YELLOW PINE FOREST. IN SHALLOW GRAVELLY PANS AND CRACKS.
Threat: NO IMMEDIATE THREATS IN 1978.
General: APPROXIMATELY 1000 PLANTS.
Owner/Manager: USFS-SIERRA NF

Occurrence No. 16 Map Index:15446 ---Dates Last Seen--- Lat/Long: 37°06'37" / 119°22'31" Township: 09S
Occ Rank: Unknown Element: 1978-05-18 UTM: Zone-11 N4109546 E288935 Range: 24E
Origin: Natural/Native occurrence Site: 1978-05-18 Precision: SPECIFIC Section: 32 Qtr NW
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 5.1 ac Elevation: 3200 ft
Main Source: BARTEL, J. 1978 (OBS)
Quad Summary: AUBERRY (3711914/397C)*, SHAVER LAKE (3711913/397D)
County Summary: FRESNO
SNA Summary:
Location: SAN JOSE BASIN ONE MI DUE S OF MATHEWS MILL NEAR (E OF) CONCRETE BRIDGE OVER JOSE CREEK.
-----Comments-----
Distribution: IN NE1/4 OF NW1/4 OF SEC 32.
Ecological: IN GRANITE SOIL POCKETS ON KNOLL WITH SCE POWER LINE TOWER.
Threat: COLLECTING AND POWER COMPANY SPRAYING OF EQUIPMENT ARE THREATS.
General: MORE THAN 1000 PLANTS IN 1978. 1959 COLLECTION BY BACIGALUPI ET AL IN JOSE BASIN ATTRIBUTED TO THIS SITE.
Owner/Manager: USFS-SIERRA NF

Occurrence No. 17 Map Index:15484 ---Dates Last Seen--- Lat/Long: 37°02'46" / 119°21'03" Township: 10S
Occ Rank: Unknown Element: 1978-05-26 UTM: Zone-11 N4102377 E290913 Range: 24E
Origin: Natural/Native occurrence Site: 1978-05-26 Precision: SPECIFIC Section: 21 Qtr XX
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 98.7 ac Elevation: 4000 ft
Main Source: BARTEL, J. 1978 (OBS)
Quad Summary: SHAVER LAKE (3711913/397D)
County Summary: FRESNO
SNA Summary:
Location: APPROXIMATELY 1.0 AIRMILE SE OF MOUNTAIN REST GUARD STATION, PRIMARILY W OF POWER LINES.
-----Comments-----
Distribution: ALL OVER SEC 21 AND INTO ADJACENT SEC 22 IN SW1/4.
Ecological: ON OPEN RIDGETOP IN YELLOW PINE FOREST, IN GRANITE SOIL POCKETS & LARGE GRANITIC OUTCROP.
Threat:
General: APPROXIMATELY 1000 PLANTS SEEN + MORE THAN 2000 PLANTS SEEN IN 1978 + MANY THOUSANDS OF PLANTS IN 1978.
FORMER EO'S 18 & 19 LUMPED HERE PER DETAILED POPULATION MAP SOURCE. WHAT IS THE CONDITION OF THESE COLONIES?
Owner/Manager: PVT IN USFS-SIERRA NF

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Shaver Lake

<i>Lupinus citrinus</i> var. <i>citrinus</i> (cont.) orange lupine Element Code: PDFAB2B103	—List Status—	NDDB Element Ranks	—Other Lists—
	Federal: Species of Concern	Global: G2T2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

Occurrence No. 23 Map Index:15469 —Dates Last Seen— Lat/Long: 37°06'43" / 119°21'26" Township: 09S
 Occ Rank: Good Element: 1995-07-10 UTM: Zone-11 N4109685 E290560 Range: 24E
 Origin: Natural/Native occurrence Site: 1995-07-10 Precision: SPECIFIC Section: 28 Qtr SE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 8.8 ac Elevation: 3500 ft
 Main Source: GALLAGHER, K. & N. BROWN 1995 (OBS)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: ABOUT 2 MI WNW OF SHAVER LAKE HEIGHTS, ON EAST SIDE OF FS RD 9S06.
 —Comments—
 Distribution: REPORTED IN 1979 FROM 1/4 MI S OF JCT OF ROADS 9S06 AND 9S57, IN 1995 REPORTED FROM 1/2 MI S OF THAT JCT.
 THOROUGH SURVEYS AND MAP DETAIL NEEDED.
 Ecological: IN OPEN SUNNY EXPOSURE ON DECOMPOSED GRANITE. ASSOCIATED WITH ARCTOSTAPHYLOS MARIPOSA, A. VISCIDA, P. SABINIANA, Q. WISLIZENII, TRIFOLIUM SP., VULPIA MYUROS, AND STREPTANTHUS TORTUOSUS.
 Threat: ROAD WIDENING, GRAZING, OHV'S, AND POWERLINE MAINTENANCE COULD THREATEN.
 General: ABOUT 100 PLANTS SEEN IN 1979, UNKNOWN HOW MANY PLANTS SEEN IN 1995.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 26 Map Index:15458 —Dates Last Seen— Lat/Long: 37°04'56" / 119°22'10" Township: 10S
 Occ Rank: Unknown Element: 1979-06-17 UTM: Zone-11 N4106437 E289378 Range: 24E
 Origin: Natural/Native occurrence Site: 1979-06-17 Precision: SPECIFIC Section: 08 Qtr NE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 50.2 ac Elevation: 3600 ft
 Main Source: BROWN, E. 1979 (OBS)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: ABOUT 2 AIR MI DUE N OF MOUNTAIN REST GUARD STATION.
 —Comments—
 Distribution:
 Ecological: IN DECOMPOSED GRANITE AND IN CRACKS OF GRANITE CAPS. IN TRANSITION BETWEEN FOOTHILL WOODLAND AND YELLOW PINE.
 Threat:
 General: SCATTERED POPULATION OF 200-300 PLANTS, 1979.
 Owner/Manager: USFS-SIERRA NF, PVT

Occurrence No. 27 Map Index:15563 —Dates Last Seen— Lat/Long: 37°04'59" / 119°17'44" Township: 10S
 Occ Rank: Unknown Element: 1979-06-23 UTM: Zone-11 N4106363 E295938 Range: 24E
 Origin: Natural/Native occurrence Site: 1979-06-23 Precision: SPECIFIC Section: 01 Qtr SE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 7.9 ac Elevation: 5373 ft
 Main Source: LATIMER, H. 1979 (OBS)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: 0.25 MI E OF OLD BRETZ MILL, PINE RIDGE.
 —Comments—
 Distribution: 2 COLONIES: ONE IN SE1/4 OF SEC 1 AND THE OTHER IN NE1/4 OF SEC 12.
 Ecological: IN VERY SANDY SOIL AT EDGE OF GRANITE OUTCROPS IN MIXED CONIFER FOREST. ASSOCIATED WITH LUPINUS STIVERSII, CALYPTRIDIVM UMBELLATUM, BRODIAEA.
 Threat:
 General: 2 POPULATIONS: POPULATION 1, 20 PLANTS IN 1979. POPULATION 2, 25 PLANTS IN 1979.
 Owner/Manager: PVT IN USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Shaver Lake

<i>Lupinus citrinus var. citrinus</i> (cont.) orange lupine Element Code: PDFAB2B103	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: Species of Concern	Global: G2T2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

Occurrence No. 28 Map Index:15461 ---Dates Last Seen--- Lat/Long: 37°06'07" / 119°22'03" Township: 09S
 Occ Rank: Unknown Element: 1995-07-10 UTM: Zone-11 N4108592 E289610 Range: 24E
 Origin: Natural/Native occurrence Site: 1995-07-10 Precision: SPECIFIC Section: 32 Qtr E
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 52.4 ac Elevation: 3800 ft
 Main Source: HAMON, D. 1980 (OBS)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: ABOUT 3 AIRMI W OF SHAVER LAKE HEIGHTS. FROM 0.15-0.9 MI N OF MUSICK CREEK.
 -----Comments-----
 Distribution: PLANTS LOCATED UNDER SCE POWERLINES.
 Ecological: 3700-4000 FEET ELEVATION IN DECOMPOSED GRANITE OF ROCKY OUTCROP. IN FOOTHILL WOODLAND WITH QUERCUS, ARCTOSTAPHYLOS, MIMULUS VISCIDUS, STREPTANTHUS DIVERSIFOLIA, FESTUCA MYUROS, ALLIUM SP., AND PINUS SABINIANA.
 Threat: POPULATION PARTLY UNDER POWERLINE, ROAD DISTURBS. BRUSH CONVERSION, SPRAYING, ROAD WIDENING THREATS. OHVS ALSO A THREAT.
 General: 4 POPULATIONS IN 1980, WITH TOTAL OF SEVERAL HUNDRED PLANTS, AT LEAST 1000 PLANTS IN SOUTHERNMOST POPULATION IN 1995.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 29 Map Index:15486 ---Dates Last Seen--- Lat/Long: 37°06'16" / 119°21'07" Township: 09S
 Occ Rank: Unknown Element: 1980-06-01 UTM: Zone-11 N4108858 E290974 Range: 24E
 Origin: Natural/Native occurrence Site: 1980-06-01 Precision: SPECIFIC Section: 33 Qtr NE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 2.4 ac Elevation: 4460 ft
 Main Source: HAMON, D. 1980 (OBS)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: ABOUT 0.5 AIR MI N OF MUSICK CR, JUST LESS THAN 2 MI W OF SHAVER LAKE HEIGHTS.
 -----Comments-----
 Distribution: IN SE1/4 OF NE1/4 SEC 33.
 Ecological: ON DECOMPOSED GRANITE OUTCROP IN FOOTHILL WOODLAND/YELLOW PINE FOREST TRANSITION ZONE.
 Threat: ROAD WIDENING, LOG SKIDDING THREATS.
 General: ABOUT 60 PLANTS IN 10 SQUARE METERS, 1980.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 31 Map Index:15422 ---Dates Last Seen--- Lat/Long: 37°02'00" / 119°23'09" Township: 10S
 Occ Rank: Unknown Element: 1903-XX-XX UTM: Zone-11 N4101034 E287778 Range: 24E
 Origin: Natural/Native occurrence Site: 1903-XX-XX Precision: NON-SPECIFIC Section: 30 Qtr XX
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 3/5 mile Elevation:
 Main Source: CONGDON, J. SN UC #82057 (HERB)
 Quad Summary: AUBERRY (3711914/397C)*, SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: NEAR TOP OF TOLLHOUSE HILL ABOVE GRAPEVINE SPRING.
 -----Comments-----
 Distribution:
 Ecological: SEEN ON ROCKS.
 Threat:
 General: THIS SPECIMEN WAS ERRONEOUSLY IDENTIFIED AS LUPINUS DEFLEXUS.
 Owner/Manager: USFS-SIERRA NF

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Shaver Lake

Lupinus citrinus var. *citrinus* (cont.)
orange lupine
Element Code: PDFAB2B103

-----List Status-----NDDB Element Ranks-----Other Lists-----
Federal: Species of Concern Global: G2T2 CNPS List: 1B
State: None State: S2.2 R-E-D Code: 2-2-3

Occurrence No. 41 Map Index:38698 ---Dates Last Seen--- Lat/Long: 37°05'43" / 119°20'31" Township: 10S
Occ Rank: Excellent Element: 1991-07-06 UTM: Zone-11 N4107810 E291854 Range: 24E
Origin: Natural/Native occurrence Site: 1991-07-06 Precision: SPECIFIC Section: 03 Qtr NW
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 12.6 ac Elevation: 4500 ft
Main Source: WINTER, R. 1991 (OBS)
Quad Summary: SHAVER LAKE (3711913/397D)
County Summary: FRESNO
SNA Summary:
Location: ABOUT 1 MI WSW OF COMMUNITY OF SHAVER LAKE, 0.6 MI N OF SEWAGE DISPOSAL PONDS.
-----Comments-----
Distribution: NE1/4 OF NW1/4 OF SECTION 3.
Ecological: LOWER YELLOW PINE FOREST BORDERING CHAPARRAL IN OPEN GRANITIC SOIL. MARGINS OF EXPOSED GRANITE ROCK OUTCROPS.
WITH ARCTOSTAPHYLOS MARIPOSA, QUERCUS CHRYSOLEPIS, ALLIUM SP., AND MIMULUS SP.
Threat: LOGGING, GRAZING, AND PROPOSED SUBDIVISION IN AREA.
General: AT LEAST 1000 PLANTS IN 1991.
Owner/Manager: PVT IN SIERRA NF

Occurrence No. 42 Map Index:38689 ---Dates Last Seen--- Lat/Long: 37°01'29" / 119°20'29" Township: 10S
Occ Rank: Good Element: 1995-06-19 UTM: Zone-11 N4099976 E291717 Range: 24E
Origin: Natural/Native occurrence Site: 1995-06-19 Precision: SPECIFIC Section: 27 Qtr SW
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 14.9 ac Elevation: 3400 ft
Main Source: GALLAGHER, K. & S. SOTH 1995 (OBS)
Quad Summary: SHAVER LAKE (3711913/397D)
County Summary: FRESNO
SNA Summary:
Location: ABOUT 1.3-1.5 MI SE OF JCT VINCENT ROAD AND PETERSON ROAD.
-----Comments-----
Distribution: PLANTS GROWING DIRECTLY UNDER POWERLINES. MOST FOUND JUST SOUTH OF VINCENT ROAD, WITH SOME FOUND IN THE ROAD.
ALSO IN NE 1/4 OF NW 1/4 OF SECTION 34.
Ecological: IN YELLOW PINE FOREST. PLANTS GROWING IN GRAVELLY DECOMPOSED GRANITE. ASSOCIATED WITH STREPTANTHUS SP.,
ARCTOSTAPHYLOS MARIPOSA, CLARKIA WILLIAMSONII, Q. WISLIZENII, ERIODICTYON CALIFORNICUM, PINUS SABINIANA, & P.
PONDEROSA.
Threat: PLANTS LOCATED UNDER SCE POWERLINES; MAINTENANCE OF THEM COULD IMPACT PLANTS.
General: 750 PLANTS IN 1995.
Owner/Manager: USFS-SIERRA NF

Occurrence No. 43 Map Index:38691 ---Dates Last Seen--- Lat/Long: 37°04'30" / 119°18'02" Township: 10S
Occ Rank: Good Element: 1990-05-29 UTM: Zone-11 N4105463 E295496 Range: 24E
Origin: Natural/Native occurrence Site: 1990-05-29 Precision: SPECIFIC Section: 12 Qtr NE
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 80 meters Elevation: 5800 ft
Main Source: STEBBINS, J. 1990 (OBS)
Quad Summary: SHAVER LAKE (3711913/397D)
County Summary: FRESNO
SNA Summary:
Location: 0.25 MI EAST OF SIERRA CEDARS, 0.5 MI S OF BRETZ MILL ROAD.
-----Comments-----
Distribution: SW1/4 OF NE1/4 OF SECTION 12.
Ecological: IN MIXED CONIFER FOREST ON GRANITIC BLUFF AND SHELF CLEARING.
Threat: SITE NEAR SUBDIVISION (SIERRA CEDARS). POSSIBLE EXPANSION AND RECREATIONAL USES COULD THREATEN.
General: 100 PLANTS IN 1990.
Owner/Manager: PVT IN SIERRA NF

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Shaver Lake

Lupinus citrinus var. *citrinus* (cont.)
orange lupine
Element Code: PDFAB2B103

-----List Status-----NDDB Element Ranks-----Other Lists-----
Federal: Species of Concern Global: G2T2 CNPS List: 1B
State: None State: S2.2 R-E-D Code: 2-2-3

Occurrence No. 44 Map Index:38695 ---Dates Last Seen--- Lat/Long: 37°03'31" / 119°17'55" Township: 10S
Occ Rank: Excellent Element: 1991-05-15 UTM: Zone-11 N4103642 E295623 Range: 24E
Origin: Natural/Native occurrence Site: 1991-05-15 Precision: SPECIFIC Section: 13 Qtr SE
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 9.1 ac Elevation: 4800 ft
Main Source: WILSON, S. 1991 (OBS)
Quad Summary: SHAVER LAKE (3711913/397D)
County Summary: FRESNO
SNA Summary:
Location: ABOUT 1.3 MI S OF SIERRA CEDARS, WEST OF RUSH CREEK.
-----Comments-----
Distribution:
Ecological: IN GRAVELLY DECOMPOSED GRANITE AT TOP OF DOME. NEARBY PONDEROSA PINE FOREST. WITH ARCTOSTAPHYLOS MARIPOSA.
Threat: LAND USE IS TIMBER HARVEST AND OHV USE BUT CURRENT THREATS PROBABLY LOW.
General: 15,000 PLANTS IN 1991.
Owner/Manager: USFS-SIERRA NF

Occurrence No. 45 Map Index:38699 ---Dates Last Seen--- Lat/Long: 37°03'09" / 119°17'39" Township: 10S
Occ Rank: Good Element: 1991-05-15 UTM: Zone-11 N4102952 E295989 Range: 25E
Origin: Natural/Native occurrence Site: 1991-05-15 Precision: SPECIFIC Section: 19 Qtr NW
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 4.0 ac Elevation: 4700 ft
Main Source: WILSON, S. 1991 (OBS)
Quad Summary: SHAVER LAKE (3711913/397D)
County Summary: FRESNO
SNA Summary:
Location: ABOUT 1 MI NNW OF SITE OF PETERSON MILL, EAST SIDE OF RUSH CREEK.
-----Comments-----
Distribution: SOME PLANTS MAY ALSO BE FOUND ON PRIVATE LAND, AS THEY WERE FOUND IMMEDIATELY ADJACENT TO PRIVATE PROPERTY
BOUNDARY. MAPPED IN FAR NW CORNER OF SECTION 19.
Ecological: IN GRAVELLY DECOMPOSED GRANITE NEAR TOP OF GRANITE OUTCROP. WITH PONDEROSA PINE AND ARCTOSTAPHYLOS MARIPOSA.
Threat: TIMBER HARVESTING IS A POTENTIAL THREAT.
General: 2500 PLANTS IN 1991.
Owner/Manager: USFS-SIERRA NF

Occurrence No. 46 Map Index:38700 ---Dates Last Seen--- Lat/Long: 37°03'22" / 119°17'00" Township: 10S
Occ Rank: Fair Element: 1991-05-15 UTM: Zone-11 N4103328 E296971 Range: 25E
Origin: Natural/Native occurrence Site: 1991-05-15 Precision: SPECIFIC Section: 18 Qtr SE
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 13.4 ac Elevation: 5100 ft
Main Source: WILSON, S. 1991 (OBS)
Quad Summary: SHAVER LAKE (3711913/397D)
County Summary: FRESNO
SNA Summary:
Location: ABOUT 5 MI S OF SHAVER LAKE, 1.2 MI NNW OF SITE OF PETERSON MILL.
-----Comments-----
Distribution: MAPPED AS THREE SUBPOPS. AT CNDDB.
Ecological: IN GRAVELLY SOIL BETWEEN ARCTOSTAPHYLOS MARIPOSA. WITH ALLIUM FIMBRIATUM AND SURROUNDED BY PINUS PONDEROSA.
Threat: TIMBER HARVEST ACTIVITIES COULD THREATEN.
General: 1000 PLANTS IN 3 SUBPOPULATIONS IN 1991.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Shaver Lake

<i>Lupinus citrinus</i> var. <i>citrinus</i> (cont.) orange lupine Element Code: PDFAB2B103	—List Status—	NDDB Element Ranks	—Other Lists—
	Federal: Species of Concern	Global: G2T2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

Occurrence No. 53 Map Index:38714 —Dates Last Seen— Lat/Long: 37°01'25" / 119°16'39" Township: 10S
 Occ Rank: Good Element: 1997-05-10 UTM: Zone-11 N4099710 E297393 Range: 25E
 Origin: Natural/Native occurrence Site: 1997-05-10 Precision: SPECIFIC Section: 31 Qtr NE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 4.7 ac Elevation: 4100 ft
 Main Source: CLINES, J. 1997 (OBS)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: ABOUT 1 MI DUE W OF SOAPROOT FLAT, E OF RUSH CREEK, JUST S OF FS RD 10S43 CROSSING.
 —Comments—
 Distribution:
 Ecological: GRAVEL SOIL OF GRANITIC OUTCROP SURROUNDED BY PONDEROSA PINE FOREST. W/ARCTOSTAPHYLOS MARIPOSA, AMELANCHIER SP., QUERCUS CHRYSOLEPIS, Q. KELLOGII, CHLOROGALUM POMERIDIANUM, ALLIUM FIMBRIATUM, VULPIA MICROSTACHYS, & PELLAEA MUCRONATA.
 Threat: TIMBER HARVEST, OHV'S, EXOTIC GRASSES, AND RECREATIONAL USES (FISHING, CAMPING) COULD THREATEN.
 General: 300 PLANTS IN 1997.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 54 Map Index:38715 —Dates Last Seen— Lat/Long: 37°00'48" / 119°15'30" Township: 10S
 Occ Rank: Good Element: 1997-05-10 UTM: Zone-11 N4098547 E299067 Range: 25E
 Origin: Natural/Native occurrence Site: 1997-05-10 Precision: SPECIFIC Section: 33 Qtr SW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 12.4 ac Elevation: 3600 ft
 Main Source: CLINES, J. 1997 (OBS)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: ABOUT 0.6-0.8 MI SOUTH OF SOAPROOT FLAT, W SLOPES OF BARNES MOUNTAIN.
 —Comments—
 Distribution:
 Ecological: GRAVEL SOIL OF GRANITIC OUTCROP SURROUNDED BY PONDEROSA PINE FOREST. W/ARCTOSTAPHYLOS MARIPOSA, AMELANCHIER SP., QUERCUS CHRYSOLEPIS, Q. KELLOGII, CHLOROGALUM POMERIDIANUM, ALLIUM FIMBRIATUM, VULPIA MICROSTACHYS, & PELLAEA MUCRONATA.
 Threat:
 General: UNKNOWN HOW MANY PLANTS SEEN IN 1997. 1 FIELD SURVEY RECEIVED WITH 2 MAPPED LOCATIONS FOR LUCIC (EO'S 53 AND 54). TEXT SEEMED TO PERTAIN TO EO 53 ONLY. MORE SPECIFIC POPULATION INFO NEEDED FOR THIS OCCURRENCE.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 55 Map Index:38716 —Dates Last Seen— Lat/Long: 37°02'18" / 119°15'24" Township: 10S
 Occ Rank: Good Element: 1991-05-28 UTM: Zone-11 N4101317 E299285 Range: 25E
 Origin: Natural/Native occurrence Site: 1991-05-28 Precision: SPECIFIC Section: 28 Qtr NW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 10.1 ac Elevation: 3600 ft
 Main Source: WILSON, S. & E. LISKEY 1991 (OBS)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: 0.7 MI DUE N OF SOAPROOT SADDLE, 1.75-1.95 MI DUE E OF PETERSON MILL (SITE).
 —Comments—
 Distribution: MAPPED IN FAR NW1/4 OF SECTION 28.
 Ecological: GRAVELLY BENCHES ON GRANITE OUTCROP SURROUNDED BY PONDEROSA PINE FOREST. ASSOCIATED WITH ALLIUM FIMBRIATUM, PARVISEDUM CONGDONII, CAMISSONIA SIERRAE SIERRAE, MADIA MINIMA, & M. EXIGUA.
 Threat:
 General: 400 PLANTS IN 1991.
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Shaver Lake

<i>Lupinus citrinus</i> var. <i>citrinus</i> (cont.) orange lupine Element Code: PDFAB2B103	-----List Status-----	NDDB Element Ranks-----	-----Other Lists-----
	Federal: Species of Concern	Global: G2T2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

Occurrence No. 50 Map Index:38709 ---Dates Last Seen--- Lat/Long: 37°01'47" / 119°16'38" Township: 10S
 Occ Rank: Good Element: 1991-05-07 UTM: Zone-11 N4100379 E297438 Range: 25E
 Origin: Natural/Native occurrence Site: 1991-05-07 Precision: SPECIFIC Section: 30 Qtr E
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 46.8 ac Elevation: 4275 ft
 Main Source: WILSON, S. & J. CLINES 1991 (OBS)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: 0.8-1.4 MI NW OF SOAPROOT FLAT. ON SOUTH SIDE OF LIGHT-DUTY ROAD (PETERSON ROAD?).
 -----Comments-----
 Distribution: MAPPED AS TWO SUBPOPULATIONS AT CNDD, IN NE1/4 OF SECTION 30 AND SE1/4 OF SECTION 30.MAPP3E
 Ecological: GRAVELLY, DECOMPOSED GRANITE FLATS AND CREVICES ON HUGE GRANITE DOME. SURROUNDED BY P. PONDEROSA, ARCTOSTAPHYLOS MARIPOSA, A. PATULA, LEWISIA TRIPHYLLA, LUPINUS STIVERSII, ARENARIA CALIFORNICA, MIMULUS LACINIATUS, AND PARVISEDUM CONGDONII.
 Threat: ORV USE AND TIMBER HARVESTING COULD THREATEN.
 General: AT LEAST 3000 PLANTS IN 2 SUBPOPULATIONS IN 1991.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 51 Map Index:38711 ---Dates Last Seen--- Lat/Long: 37°01'49" / 119°17'31" Township: 10S
 Occ Rank: Good Element: 1991-05-07 UTM: Zone-11 N4100484 E296130 Range: 25E
 Origin: Natural/Native occurrence Site: 1991-05-07 Precision: SPECIFIC Section: 30 Qtr SW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 3.7 ac Elevation: 4600 ft
 Main Source: WILSON, S. & J. CLINES 1991 (OBS)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: 0.6 MI SOUTH OF SITE OF PETERSON MILL ON N SIDE OF ROAD (FS RD 10S43?).
 -----Comments-----
 Distribution:
 Ecological: GRAVELLY FLATS AND CREVICES OF ROCK OUTCROP. ALSO IN GRAVELLY SOIL ADJACENT TO OUTCROP WHERE IT IS MORE FORESTED. ASSOCIATED WITH ARCTOSTAPHYLOS MARIPOSA, QUERCUS WISLIZENII, AND CHAMAEBATIA FOLIOLOSA.
 Threat:
 General: 100'S OF PLANTS IN 1991.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 52 Map Index:22758 ---Dates Last Seen--- Lat/Long: 37°01'28" / 119°17'15" Township: 10S
 Occ Rank: Good Element: 1991-05-07 UTM: Zone-11 N4099842 E296518 Range: 25E
 Origin: Natural/Native occurrence Site: 1991-05-07 Precision: SPECIFIC Section: 30 Qtr SW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 9.6 ac Elevation: 4400 ft
 Main Source: WILSON, S. 1991 (OBS)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: ABOUT 10 KM (6 MI) SOUTH OF SHAVER LAKE, 1.7 KM (1.1 MI) SOUTH OF PETERSON MILL (SITE).
 -----Comments-----
 Distribution: EAST OF MOUNTAIN REST ON FOREST ROAD 10S02, SOUTH ON 10S43 TO 10S43E. NORTHWEST 1.8 MI UP GRANITE OUTCROP. SE1/4 OF SW1/4 OF SECTION 30.
 Ecological: GRAVELLY, DECOMPOSED GRANITE BENCHES ON GRANITE OUTCROP. WITHIN PONDEROSA PINE FOREST. ASSOCIATED WITH P. PONDEROSA, ARCTOSTAPHYLOS MARIPOSA, CARPENTERIA CALIFORNICA, AND LUPINUS STIVERSII.
 Threat: LOGGING COULD THREATEN.
 General: 1000 PLANTS IN 1991.
 Owner/Manager: USFS-SIERRA NF

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Shaver Lake

<i>Lupinus citrinus</i> var. <i>citrinus</i> (cont.) orange lupine Element Code: PDFAB2B103	-----List Status-----	NDDB Element Ranks-----	-----Other Lists-----
	Federal: Species of Concern	Global: G2T2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

Occurrence No. 47 Map Index:38702 ---Dates Last Seen--- Lat/Long: 37°02'56" / 119°16'29" Township: 10S
 Occ Rank: Good Element: 1991-05-21 UTM: Zone-11 N4102498 E297722 Range: 25E
 Origin: Natural/Native occurrence Site: 1991-05-21 Precision: SPECIFIC Section: 20 Qtr NW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 15.6 ac Elevation: 4900 ft
 Main Source: WILSON, S. 1991 (OBS)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: BLUE CANYON-BIG CREEK DRAINAGE, NORTH OF FS RD 10S02, S OF FS RD 10S18. 1.8 MI NW OF SOAPROOT SADDLE.
 ---Comments---
 Distribution: DOME WITH 4WD ROAD RUNNING ACROSS PART OF IT.
 Ecological: IN PONDEROSA PINE FOREST IN GRAVELLY, DECOMPOSED GRANITE. WITH ARCTOSTAPHYLOS MARIPOSA AND ALLIUM FIMBRIATUM.
 Threat: TIMBER HARVEST, ROAD IMPROVEMENT, AND 4WD VEHICLES COULD THREATEN.
 General: 3000 PLANTS IN 1991.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 48 Map Index:38703 ---Dates Last Seen--- Lat/Long: 37°02'42" / 119°16'55" Township: 10S
 Occ Rank: Fair Element: 1991-05-21 UTM: Zone-11 N4102092 E297061 Range: 25E
 Origin: Natural/Native occurrence Site: 1991-05-21 Precision: SPECIFIC Section: 19 Qtr NE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 23.7 ac Elevation: 4850 ft
 Main Source: WILSON, S. 1991 (OBS)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: 1.7-2.1 MI NW OF SOAPROOT SADDLE, ON BOTH SIDES OF FS RD 10S50.
 ---Comments---
 Distribution:
 Ecological: IN ROCKY, GRAVELLY DECOMPOSED GRANITE POCKET SURROUNDED BY ARCTOSTAPHYLOS MARIPOSA. WITH ALLIUM FIMBRIATUM, MADIA MINIMA, LUPINUS STIVERSII, MIMULUS LACINIATUS, AND PELLAEA MUCRONATA.
 Threat: TIMBER HARVEST ACTIVITIES AND ROAD MAINTENANCE COULD THREATEN.
 General: 3050 PLANTS IN 1991 IN 3 SUBPOPULATIONS.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 49 Map Index:38708 ---Dates Last Seen--- Lat/Long: 37°02'20" / 119°16'46" Township: 10S
 Occ Rank: Fair Element: 1995-06-11 UTM: Zone-11 N4101406 E297268 Range: 25E
 Origin: Natural/Native occurrence Site: 1995-06-11 Precision: SPECIFIC Section: 30 Qtr NE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 38.6 ac Elevation: 4450 ft
 Main Source: BROWN, N. & K. GALLAGER 1995 (OBS)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: FROM 0.5 MI E TO 1.0 MI SE OF SITE OF PETERSON MILL. NORTH SIDE OF LIGHT-DUTY ROAD (PETERSON ROAD?)
 ---Comments---
 Distribution: ALSO IN THE SE 1/4 OF SECTION 19 AND THE NW 1/4 OF SECTION 29.
 Ecological: ON GRANITIC OUTCROP WITH SMALL BASINS OF SANDY, GRAVELLY SOIL. ASSOCIATED WITH PINUS PONDEROSA AND ARCTOSTAPHYLOS MARIPOSA.
 Threat: OHV'S, ROAD MAINTENANCE AND LOGGING COULD THREATEN.
 General: UNKNOWN HOW MANY PLANTS SEEN IN 1995. 75 PLANTS SEEN IN EXTREME N PART OF OCCURRENCE IN 1991.
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Shaver Lake

<i>Lupinus citrinus</i> var. <i>citrinus</i> (cont.) orange lupine Element Code: PDFAB2B103	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: Species of Concern	Global: G2T2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

Occurrence No. 56 Map Index:38722 ---Dates Last Seen--- Lat/Long: 37°02'17" / 119°14'52" Township: 10S
 Occ Rank: Fair Element: 1995-07-06 UTM: Zone-11 N4101271 E300071 Range: 25E
 Origin: Natural/Native occurrence Site: 1995-07-06 Precision: SPECIFIC Section: 28 Qtr NE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 16.0 ac Elevation: 3600 ft
 Main Source: WILSON, S. & E. LISKEY
 Quad Summary: DINKEY CREEK (3711912/396C)*, SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: 0.6-0.75 MI NE OF SOAPROOT SADDLE, UNDER POWERLINES.
 -----Comments-----
 Distribution:
 Ecological: IN SANDY, GRAVELLY SOIL UNDER POWERLINES. GRANITE OUTCROP. PONDEROSA PINE FOREST WITH ARCTOSTAPHYLOS MARIPOSA, ALLIUM FIMBRIATUM, LUPINUS STIVERSII, GITHOPSIS SPECULARIODES, STREPTANTHUS SP., BRODIEA SP., CENTARIUM SP., & MIMULUS SP..
 Threat: TIMBER HARVESTING ACTIVITIES COULD THREATEN. OHV & RECREATION.
 General: 240 PLANTS IN 1991 IN 2 SUBPOPULATIONS. THIRD SUBPOPULATION IN 1995 WITH APPROXIMATELY 225 INDIVIDUALS.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 57 Map Index:38730 ---Dates Last Seen--- Lat/Long: 37°04'54" / 119°15'38" Township: 10S
 Occ Rank: Good Element: 1991-05-22 UTM: Zone-11 N4106119 E299070 Range: 25E
 Origin: Natural/Native occurrence Site: 1991-05-22 Precision: SPECIFIC Section: 08 Qtr NE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 23.4 ac Elevation: 4600 ft
 Main Source: CLINES, J. 1990 (OBS)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: EXTREME NORTH END OF BLUE CANYON, 1.1 MI SSE OF POISON MEADOW.
 -----Comments-----
 Distribution: ACCESSED BY A LOGGING ROAD BRANCHING OFF FROM THE NW FROM FS RD 10S39. ALSO FOUND IN THE SE 1/4 OF THE SE 1/4 OF SECTION 5 IN 1991.
 Ecological: GRANITE OUTCROP IN YELLOW PINE FOREST. WITH ALLIUM FIMBRIATUM, ARENARIA SP., CLARKIA WILLIAMSONII, MADIA MINIMA, LUPINUS STIVERSII, PELLAEA MUCRONATA, & LOTUS ARGOPHYLLUS.
 Threat: OUTCROP QUITE INACCESSIBLE, SO PLANTS NOT IN DANGER.
 General: 100'S OF PLANTS (IN FRUIT) SEEN IN 1990, 1000 IN 1991.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 64 Map Index:49170 ---Dates Last Seen--- Lat/Long: 37°06'57" / 119°21'54" Township: 09S
 Occ Rank: Unknown Element: 1980-09-XX UTM: Zone-11 N4110165 E289848 Range: 24E
 Origin: Natural/Native occurrence Site: 1980-09-XX Precision: SPECIFIC Section: 28 Qtr SW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 10.7 ac Elevation:
 Main Source: HAMON, D. 1980 (MAP)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: WEST OF SHAVER LAKE, APPROXIMATELY 0.6 AIRMILE SSE OF MATHEWS MILL SITE.
 -----Comments-----
 Distribution: MAPPED IN THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 28.
 Ecological:
 Threat:
 General: ONLY SOURCE OF INFORMATION IS 15 MINUTE QUADRANGLE MAP. NEEDS FIELDWORK.
 Owner/Manager: UNKNOWN

Full Condensed Report - Multiple Records per Page
Shaver Lake

<i>Carpenteria californica</i> tree-anemone Element Code: PDHDR04010	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: None	Global: G2	CNPS List: 1B
	State: Threatened	State: S2.2	R-E-D Code: 3-2-3

-----Habitat Associations-----
 General: CISMONTANE WOODLAND, CHAPARRAL. ENDEMIC TO FRESNO COUNTY, CALIFORNIA.
 Micro: AN VERY LOCALIZED ENDEMIC FOUND ON WELL-DRAINED GRANITIC SOILS, MOSTLY ON N-FACING RAVINES AND DRAINAGES. 340-1340M.

Occurrence No. 1 Map Index:15355 ---Dates Last Seen--- Lat/Long: 37°05'00" / 119°25'38" Township: 10S
 Occ Rank: Good Element: 1987-XX-XX UTM: Zone-11 N4106680 E284240 Range: 23E
 Origin: Natural/Native occurrence Site: 1987-XX-XX Precision: NON-SPECIFIC Section: 10 Qtr E
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 14,600.6 ac Elevation: 3920 ft
 Main Source: HAMON, D. 1972 (MAP)
 Quad Summary: AUBERRY (3711914/397C)*, SHAVER LAKE (3711913/397D), CASCADEL POINT (3711924/397B)
 County Summary: FRESNO
 SNA Summary: Big Sandy Bluffs
 Location: BIG SANDY BLUFFS NORTH TO JUST SOUTH OF SAN JOAQUIN RIVER NEAR ITALIAN BAR.
 -----Comments-----
 Distribution: INCLUDES SEVERAL COLLECTIONS FROM "5 MI ABOVE AUBERRY ON ROAD TO PINERIDGE" AND VICINITY.
 Ecological: DECOMPOSED GRANITE IN CHAPARRAL. ASSOCIATED WITH CEANOTHUS, PEDICULARIS, DELPHINIUM, SAMBUCUS, CERCIS OCCIDENTALIS, ASCLEPIAS, ARCTOSTAPHYLOS MARIPOSA, ERIODICTYON CALIFORNICA, AND UMBELLARIA CALIFORNICA.
 Threat: THREATENED BY A PROPOSED NEW STATE HIGHWAY PROJECT AND SPRAWLING FOOTHILL DEVELOPMENT.
 General: PART OF AREA IS USFS RNA; ANOTHER PART IS USFS CARPENTERIA BOTANICAL AREA. SEVERAL THOUSAND PLANTS SEEN IN 1986 ALONG GRADE UP BIG SANDY BLUFFS (HWY 168). HWY BISECTS OCCURRENCE. PART OF OCCURRENCE BURNED IN 1984.
 Owner/Manager: USFS-SIERRA NF, PVT

Occurrence No. 4 Map Index:15519 ---Dates Last Seen--- Lat/Long: 37°01'12" / 119°19'32" Township: 10S
 Occ Rank: Good Element: 1959-05-09 UTM: Zone-11 N4099421 E293113 Range: 24E
 Origin: Natural/Native occurrence Site: 1959-05-09 Precision: SPECIFIC Section: 35 Qtr NW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 563.9 ac Elevation: 2800 ft
 Main Source: HAMON, D. 1972 (MAP)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: ALONG N FK SYCAMORE CR, NE OF BURROUGH MTN.
 -----Comments-----
 Distribution:
 Ecological: ON EAST-FACING SLOPE IN CHAPARRAL.
 Threat: OCCURRENCE NEAR HOMES; DUMPING NEARBY. ALSO THREATENED BY ORV USE BY NEARBY RANCHES AND INDIAN RESERVATION.
 General: SP SEEN IN 1959. GOOD SITE CONDITION ACCORDING TO STEBBINS (1987).
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 9 Map Index:22758 ---Dates Last Seen--- Lat/Long: 37°01'28" / 119°17'15" Township: 10S
 Occ Rank: Good Element: 1991-05-07 UTM: Zone-11 N4099842 E296518 Range: 25E
 Origin: Natural/Native occurrence Site: 1991-05-07 Precision: SPECIFIC Section: 30 Qtr SW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 9.6 ac Elevation: 4400 ft
 Main Source: WILSON, S. & J. CLINES 1991 (OBS)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: APPROX. 10 KM (6 MI) SOUTH OF SHAVER LAKE, 1.7 KM (1.1 MI) SOUTH OF PETERSON MILL (SITE).
 -----Comments-----
 Distribution: EAST OF MOUNTAIN REST ON FOREST ROAD 10S02, SOUTH ON 10S43 TO 10S43E. NORTHWEST 1.8 MI UP GRANITE OUTCROP.
 Ecological: GROWING AT MARGIN OF LARGE GRANITE OUTCROP ALONG CHAPARRAL/YELLOW PINE FOREST ECOTONE. ASSOCIATED WITH LUPINUS CITRINUS.
 Threat: LOGGING MAY THREATEN IN THE FUTURE.
 General: 15 PLANTS SEEN IN 1991. USFS BOTANY PERSONNEL WORKED WITH MARKING CREW DURING SALVAGE TIMBER SALE TO FLAG WIDE MARGIN AROUND THE POPULATION IN 1991.
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
 Auberry

<i>Viburnum ellipticum</i> oval-leaved viburnum Element Code: PDCPR07080	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: None	Global: G5	CNPS List: 2
	State: None	State: S2.3	R-E-D Code: 2-1-1

-----Habitat Associations-----
 General: CHAPARRAL, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.
 Micro: 215-1400M.

Occurrence No. 1 Map Index:49953 ---Dates Last Seen--- Lat/Long: 37°02'29" / 119°24'12" Township: 10S
 Occ Rank: Unknown Element: 1959-05-22 UTM: Zone-11 N4101990 E286251 Range: 23E
 Origin: Natural/Native occurrence Site: 1959-05-22 Precision: NON-SPECIFIC Section: 24 Qtr SE
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 2/5 mile Elevation: 3650 ft
 Main Source: QUIBELL, C. #8516 JEPS #22697 (HERB)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary:
 Location: 0.5 MILES NORTH OF TOLLHOUSE VILLAGE.
 -----Comments-----
 Distribution: JUNCTION OF HWY 168 WITH BEAL FIRE ROAD.
 Ecological: ON NORTH-FACING SLOPE IN DENSE CHAPPARAL WITH QUERCUS BELOW YELLOW PINE FOREST.
 Threat:
 General: NEEDS FIELDWORK. SEVERAL COLLECTIONS MAPPED HERE: "0.5 MI N OF OF TOLLHOUSE VILLAGE," "TOLLHOUSE GRADE,"
 "FRESNO CO., NEAR TOLLHOUSE GRADE."
 Owner/Manager: UNKNOWN

Occurrence No. 2 Map Index:49954 ---Dates Last Seen--- Lat/Long: 37°01'56" / 119°26'51" Township: 10S
 Occ Rank: Unknown Element: 1972-05-28 UTM: Zone-11 N4101072 E282290 Range: 23E
 Origin: Natural/Native occurrence Site: 1972-05-28 Precision: NON-SPECIFIC Section: 27 Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 72.4 ac Elevation: 3300 ft
 Main Source: MENZIES, A. SN JEPS #74303 (HERB)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary:
 Location: 4.1 MILES WEST OF TOLLHOUSE ON ROAD TO PRATHER.
 -----Comments-----
 Distribution: MAPPED ALONG LODGE ROAD 4.1 MILES W OF TOLLHOUSE.
 Ecological:
 Threat:
 General: NEEDS FIELDWORK. ONLY SOURCE OF INFORMATION IS 1972 COLLECTION BY MENZIES.
 Owner/Manager: UNKNOWN

Full Condensed Report - Multiple Records per Page
Auberry

Oravelia pege

Dry Creek cliff strider bug
Element Code: IIHEM14010

—List Status—	—NDDB Element Ranks—	—Other Lists—
Federal: Species of Concern	Global: G1	CDFG Status:
State: None	State: S1	

~~—Habitat Associations—~~

General: KNOWN ONLY FROM DRY CREEK IN FRESNO COUNTY.

Micro: FOUND IN CRACKS & CREVICES OF A SHEER ROCKY CLIFF MOISTENED BY SEEPING WATER AND UNDER DEBRIS AT THE BASE OF THE CLIFF.

Occurrence No. 1	Map Index:15391	—Dates Last Seen—	Lat/Long: 36°59'34" / 119°24'43"	Township: 11S
Occ Rank: Unknown		Element: 1964-05-13	UTM: Zone-11 N4096587 E285351	Range: 23E
Origin: Natural/Native occurrence		Site: 1964-05-13	Precision: NON-SPECIFIC	Section: 12 Qtr XX
Presence: Presumed Extant			Symbol Type: POINT	Meridian: M
Trend: Unknown			Radius: 1 mile	Elevation: 1600 ft

Main Source: POLHEMUS, J. & H. CHAPMAN 1979 (LIT)

Quad Summary: HUMPHREYS STATION (3611984/377B)*, AUBERRY (3711914/397C)

County Summary: FRESNO

SNA Summary:

Location: DRY CREEK 2-3 MI SW TOLLHOUSE.

~~—Comments—~~

Distribution: ONLY KNOWN FROM THIS LOCATION.

Ecological: FOUND IN CRACKS IN THE BASAL SECTION OF THE FACE OF A SHEER ROCKY CLIFF, CONTINUOUSLY MOISTENED BY SEEPING WATER; ALSO FOUND UNDER ROCKS, LEAVES, AND OTHER MOIST DEBRIS AT THE FOOT OF THE CLIFF.

Threat:

General: NYMPHS SEEN ON MOIST CLIFF WALLS IN APRIL.

Owner/Manager: UNKNOWN

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Auberry

Lytta molesta

molestan blister beetle
Element Code: IICOL4C030

-----List Status-----	NDDB Element Ranks	-----Other Lists-----
Federal: Species of Concern	Global: G2	CDFG Status:
State: None	State: S2	

-----Habitat Associations-----

General: INHABITS THE CENTRAL VALLEY OF CALIFORNIA, FROM CONTRA COSTA TO KERN AND TULARE COUNTIES.
Micro: None for this Element

Occurrence No. 2	Map Index:15282	-----Dates Last Seen-----	Lat/Long: 37°04'46" / 119°29'08"	Township: 10S
Occ Rank: Unknown		Element: 19XX-XX-XX	UTM: Zone-11 N4106372 E279050	Range: 23E
Origin: Natural/Native occurrence		Site: 19XX-XX-XX	Precision: NON-SPECIFIC	Section: 08 Qtr N
Presence: Presumed Extant			Symbol Type: POINT	Meridian: M
Trend: Unknown			Radius: 1 mile	Elevation: 2200 ft
Main Source: SELANDER, R. 1960 (LIT)				
Quad Summary: AUBERRY (3711914/397C)*, MILLERTON LAKE EAST (3711915/398D)				
County Summary: FRESNO				
SNA Summary:				
Location: AUBERRY, 10 MI WSW OF SHAVER LAKE.				
-----Comments-----				
Distribution: FOUND IN THE CENTRAL VALLEY FROM CONTRA COSTA TO TULARE AND KERN COUNTIES.				
Ecological:				
Threat:				
General: SEASONAL DISTRIBUTION: APRIL 3 - JULY 1. ONE COLLECTED IN APRIL FROM ERODIUM CICUTARIUM; YEAR OF COLLECTION INKNOWN.				
Owner/Manager: PVT, USFS-SIERRA NF				

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Auberry

<i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle Element Code: IICOL48011	-----List Status-----	NDDB Element Ranks-----	-----Other Lists-----
	Federal: Threatened	Global: G3T2	CDFG Status:
	State: None	State: S2	

-----Habitat Associations-----
General: OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).
Micro: PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Occurrence No. 124 Map Index:33166 ---Dates Last Seen--- Lat/Long: 37°03'23" / 119°26'47" Township: 10S
Occ Rank: Good Element: 1995-05-04 UTM: Zone-11 N4103716 E282469 Range: 23E
Origin: Natural/Native occurrence Site: 1995-05-04 Precision: SPECIFIC Section: 15 Qtr SE
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 80 meters Elevation: 2200 ft
Main Source: YOTK, D. & W. PHILPOTT 1995 (OBS)
Quad Summary: AUBERRY (3711914/397C)
County Summary: FRESNO
SNA Summary:
Location: JUST WEST OF HWY 168, 2.5 MILES SE OF AUBERRY.
-----Comments-----
Distribution: LOCATED BETWEEN MILE POST 30.1 AND 30.2 ON HWY 168, THEN 25-150M WEST OF THE HWY.
Ecological: HABITAT CONSISTS OF INTERIOR LIVE OAK CHAPARRAL, WITH ELDERBERRY SHRUBS COVERING SEVERAL ACRES, ON A STEEP,
SW-FACING SLOPE. SHRUBS ARE GROWING ON THE HWY FILL SLOPE.
Threat:
General: ON 4 MAY 1995, 5 SHRUBS WERE OBSERVED CONTAINING EXIT HOLES.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Auberry

Central Valley Drainage Hardhead/Squawfish Stream

Element Code: CARA2443CA

-----List Status----- NDDB Element Ranks----- Other Lists-----
Federal: None Global: G?
State: None State: S?

-----Habitat Associations-----
General: None for this Element
Micro: None for this Element

Occurrence No. 5 Map Index:25577 ---Dates Last Seen--- Lat/Long: 37°08'12" / 119°29'19" Township: 09S
Occ Rank: Good Element: 1986-XX-XX UTM: Zone-11 N4112727 E278942 Range: 23E
Origin: Natural/Native occurrence Site: 1986-XX-XX Precision: NON-SPECIFIC Section: 28 Qtr XX
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Decreasing Area: 559.3 ac Elevation: 1200 ft
Main Source: MOYLE, PETER 1991 (LIT)
Quad Summary: CASCADEL POINT (3711924/397B)*, AUBERRY (3711914/397C), NORTH FORK (3711925/398A)
County Summary: FRESNO, MADERA
SNA Summary:
Location: SAN JOAQUIN RIVER, BETWEEN KERCKHOFF & REDINGER RESERVOIRS.
-----Comments-----
Distribution: BETWEEN KERCKHOFF RESERVOIR AND REDINGER RESERVOIR. ALSO INCLUDES WILLOW CREEK FROM MOUTH TO CONFLUENCE OF
WHISKY CREEK.
Ecological: DEEP, ROCKY POOL HABITAT IN STEEP CANYON WHICH CONTAINS HARDHEAD, SQUAWFISH, AND SACRAMENTO SUCKER. FLOWS ARE
REGULATED BY UPSTREAM DAMS. WILLOW, PINE, OAK, COTTONWOOD, AND CEDAR RIPARIAN VEGETATION.
Threat: GRAZING DEGRADING STREAMBANKS ON LOWER WILLOW CREEK. DAMS UPSTREAM MINIMIZING FLOWS.
General: LOCAL SUPPORT FOR PROTECTION OF STREAM BY "SAVE OUR STREAMS, INC."
Owner/Manager: PVT

Full Condensed Report - Multiple Records per Page
 Auberry

<i>Clemmys marmorata</i> western pond turtle Element Code: ARAAD02030	-----List Status----- Federal: None State: None	-----NDDB Element Ranks----- Global: G3G4 State: S3	-----Other Lists----- CDFG Status: SC
---	---	---	--

-----Habitat Associations-----
 General: A THOROUGHLY AQUATIC TURTLE OF PONDS, MARSHES, RIVERS, STREAMS & IRRIGATION DITCHES WITH AQUATIC VEGETATION.
 Micro: NEED BASKING SITES AND SUITABLE (SANDY BANKS OR GRASSY OPEN FIELDS) UPLAND HABITAT FOR EGG-LAYING.

Occurrence No. 49 Map Index:32805 ---Dates Last Seen--- Lat/Long: 37°02'09" / 119°28'31" Township: 10S
 Occ Rank: Good Element: 1989-07-15 UTM: Zone-11 N4101515 E279849 Range: 23E
 Origin: Natural/Native occurrence Site: 1989-07-15 Precision: SPECIFIC Section: 29 Qtr NE
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 80 meters Elevation: 1845 ft
 Main Source: MILLER, G. 1989 (OBS)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary:
 Location: 1.0 KM SSW OF HIGHWAY 168 X LODGE ROAD; ON EAST SIDE OF WHISPERING PINES LANE.
 -----Comments-----
 Distribution:
 Ecological: FRESHWATER MARSH BORDERING AN UNGRAZED STOCKPOND.
 Threat:
 General: 2 ADULTS OBSERVED. WOODDUCK BROOD, BULLFROGS AND GREAT BLUE HERON USING POND; ABSENCE OF GRAZING HAS ALLOWED MARSH TO DEVELOP AROUND POND.
 Owner/Manager: PVT

Occurrence No. 50 Map Index:32806 ---Dates Last Seen--- Lat/Long: 37°06'59" / 119°22'42" Township: 09S
 Occ Rank: Excellent Element: 1993-07-21 UTM: Zone-11 N4110230 E288698 Range: 24E
 Origin: Natural/Native occurrence Site: 1993-07-21 Precision: SPECIFIC Section: XX Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 338.0 ac Elevation: 2000 ft
 Main Source: REPLOGLE, R. 1993 (OBS)
 Quad Summary: AUBERRY (3711914/397C)*, SHAVER LAKE (3711913/397D), MUSICK MTN. (3711923/397A), CASCADEL POINT (3711924/397B)
 County Summary: FRESNO
 SNA Summary:
 Location: JOSE CREEK, FROM SCE POWERHOUSE #3 TO THE SOUTH FOR APPROX. 6.0 MILES, JOSE BASIN.
 -----Comments-----
 Distribution: TURTLES FOUND IN POOLS THROUGHOUT ENTIRE 6 MILES OF STREAM.
 Ecological: STREAM WITH POOLS, CHANNEL TYPE RANGED FROM STEEP BEDROCK TO FLAT SILTY.
 Threat: BULLFROGS.
 General: 7/21/93: 38 ADULTS, 10 JUVENILES, 6 HATCHLINGS OBSERVED BY R. REPLOGLE. 7/15/88: 8 CAPTURED & RELEASED BY R.W. HANSEN & D.C. HOLLAND AT SCE POWERHOUSE #3. UNKNOWN NUMBER OBSERVED BY R.W. HANSEN & D.C. HOLLAND AT JOSE BASIN RD. DATE UNKNOWN.
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Auberry

<i>Vulpes vulpes necator</i> Sierra Nevada red fox Element Code: AMAJA03012	-----List Status----- Federal: Species of Concern State: Threatened	-----NDDB Element Ranks----- Global: G5T3 State: S1	-----Other Lists----- CDFG Status:
---	---	---	---------------------------------------

-----Habitat Associations-----
General: FOUND FROM THE CASCADES DOWN TO THE SIERRA NEVADA. FOUND IN A VARIETY OF HABITATS FROM WET MEADOWS TO FORESTED AREAS.
Micro: USE DENSE VEGETATION & ROCKY AREAS FOR COVER & DEN SITES. PREFER FORESTS INTERSPERSED W/ MEADOWS OR ALPINE FELL-FIELDS.

Occurrence No. 58 Map Index:36348 ---Dates Last Seen--- Lat/Long: 37°03'56" / 119°27'21" Township: 10S
Occ Rank: Excellent Element: 1987-03-02 UTM: Zone-11 N4104763 E281647 Range: 23E
Origin: Natural/Native occurrence Site: 1987-03-02 Precision: NON-SPECIFIC Section: 15 Qtr NW
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1/10 mile Elevation: 2000 ft
Main Source: MARTIN, D. 1987 (OBS)
Quad Summary: AUBERRY (3711914/397C)
County Summary: FRESNO
SNA Summary:
Location: NORTH SIDE OF HWY 168, 1.8 MILES NE OF THE LODGE ROAD INTERSECTION, SIERRA NATIONAL FOREST
-----Comments-----
Distribution:
Ecological: SITE IS FOUND AT THE FOOT OF BIG SANDY BLUFFS; CARPINTERIA SP AND LUPINUS CITRINUS HABITAT.
Threat:
General: ADULT FOX CROSSED THE HWY (HEADING NORTH) & SAT UNDER COVER, FOR ABOUT 1 MINUTE ON 2 MAR 1987.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Shaver Lake

<i>Lewisia disepala</i> Yosemite lewisia Element Code: PDPOR04060	List Status: _____	NDDB Element Ranks: _____	Other Lists: _____
	Federal: Species of Concern	Global: G2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

Habitat Associations
 General: LOWER MONTANE CONIFEROUS FOREST, PINYON JUNIPER WOODLAND, UPPER MONTANE CONIFEROUS FOREST.
 Micro: FINE GRAVEL ON ROCK OUTCROPS, RIDGES, OR DOMES. GRANITIC SOILS. 1560-2610M.

Occurrence No. 14 Map Index:38756 —Dates Last Seen— Lat/Long: 37°02'57" / 119°16'28" Township: 10S
 Occ Rank: Fair Element: 1997-03-07 UTM: Zone-11 N4102538 E297736 Range: 25E
 Origin: Natural/Native occurrence Site: 1997-03-07 Precision: SPECIFIC Section: 20 Qtr NW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 8.7 ac Elevation: 4700 ft
 Main Source: CLINES, J. & Y. COUGOULET 1997 (OBS)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: RIDGE BETWEEN RUSH CREEK AND BLUE CANYON, 1 MI N OF PETERSON RD AND 2.6 MI SE OF SIERRA CEDARS, SOUTH OF SHAVER LAKE.

Comments
 Distribution: ON GRANITE DOME EAST OF USFS ROAD 10S50 WITHIN THE SW 1/4 NW 1/4 SECTION 20.
 Ecological: LARGE, OPEN GRANITE DOME SURROUNDED BY MIXED CONIFER/PONDEROSA PINE FOREST. ASSOCIATED WITH MOSSES, ARCTOSTAPHYLOS VISCIDA MARIPOSA, PINUS PONDEROSA, AND LUPINUS CITRINUS VAR. CITRINUS. PLANTS GROWING IN GRAVEL.
 Threat: OHV ROUTE/ROAD CUTS THROUGH POPULATION.
 General: 1050 PLANTS OBSERVED IN 1997.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 15 Map Index:38758 —Dates Last Seen— Lat/Long: 37°02'19" / 119°16'42" Township: 10S
 Occ Rank: Fair Element: 1996-03-09 UTM: Zone-11 N4101370 E297377 Range: 25E
 Origin: Natural/Native occurrence Site: 1996-03-09 Precision: SPECIFIC Section: 30 Qtr NE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 10.7 ac Elevation: 4400 ft
 Main Source: CLINES, J. & D. TAYLOR 1996 (OBS)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: ALONG RUSH CREEK, NORTH SIDE OF PETERSON ROAD ABOUT 0.7 MILE EAST OF PETERSON MILL (SITE), SOUTH OF SHAVER LAKE.

Comments
 Distribution: TWO COLONIES NEAR QUARRY OFF OF UNNAMED DIRT ROAD IN THE NE 1/4 NE 1/4 SECTION 30.
 Ecological: GRANITE OUTCROP SURROUNDED BY PONDEROSA PINE FOREST. ASSOCIATED WITH MOSS AND LICHEN. THE RARE LUPINUS CITRINUS VAR. CITRINUS IS ALSO FOUND HERE.
 Threat: QUARRY NOT IN USE, BUT ACCESS ROADS ARE UTILIZED BY OHVS WHICH HAVE DAMAGED THE HABITAT.
 General: 1740 PLANTS OBSERVED IN 1996. CLINE RECOMMENDS CLOSING AREA TO OHV USE. CAMPERS AND THEIR VEHICLES HAVE ALSO DESTROYED PLANTS.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 16 Map Index:38759 —Dates Last Seen— Lat/Long: 37°02'01" / 119°16'52" Township: 10S
 Occ Rank: Good Element: 1996-03-18 UTM: Zone-11 N4100842 E297097 Range: 25E
 Origin: Natural/Native occurrence Site: 1996-03-18 Precision: SPECIFIC Section: 30 Qtr NE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 11.2 ac Elevation: 4400 ft
 Main Source: CLINES, J. & D. YORK 1996 (OBS)
 Quad Summary: SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: ALONG RUSH CREEK, SOUTH OF PETERSON ROAD ABOUT 0.5 MILE SOUTHEAST OF PETERSON MILL (SITE); SOUTH OF SHAVER LAKE.

Comments
 Distribution: TWO COLONIES ON GRANITE OUTCROP LOCATED AT END OF USFS ROAD 10S43D. MAPPED WITHIN THE S 1/2 NE 1/4 SECTION 30.
 Ecological: GRANITE OUTCROP; SOME LEWISIA PLANTS GROWING WITH MOSS, OTHERS WITH NO ASSOCIATES. GRAVEL SOILS. THE RARE LUPINUS CITRINUS VAR. CITRINUS IS ALSO FOUND HERE.
 Threat: EASTERN COLONY DAMAGED BY OHV USE.
 General: 860 PLANTS OBSERVED IN 1996. FOREST IS PROPOSING ROUTE AS PART OF FOREST OHV PLAN. E-MOST SITE DEPLETED BY OHVS; W-MOST SITE IS LESS DAMAGED.
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Auberry

<i>Lupinus citrinus</i> var. <i>citrinus</i> orange lupine Element Code: PDFAB2B103	—List Status—	—NDDB Element Ranks—	—Other Lists—
	Federal: Species of Concern	Global: G2T2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

—Habitat Associations—
General: CHAPARRAL, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST. KNOWN ONLY FROM FRESNO AND MADERA COUNTIES.
Micro: ROCKY, DECOMPOSED GRANITIC OUTCROPS, USUALLY OPEN AREAS, ON FLAT TO ROLLING TERRAIN. 600-1350M.

Occurrence No. 1 Map Index:15413 —Dates Last Seen— Lat/Long: 37°06'43" / 119°24'07" Township: 09S
 Occ Rank: Fair Element: 1995-06-13 UTM: Zone-11 N4109789 E286573 Range: 24E
 Origin: Natural/Native occurrence Site: 1995-06-13 Precision: SPECIFIC Section: 30 Qtr SW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 17.8 ac Elevation: 3600 ft
 Main Source: CLINES, J. 1995 (OBS)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary: Sugarloaf Hill
 Location: SW OF SUGARLOAF HILL, SUGARLOAF CONVERSION PROJECT (NW SIDE OF JOSE BASIN).
 —Comments—
 Distribution: USFS POP # 15-15 & 15-24. ALONG BOTH SIDES OF FS ROAD 9561C.
 Ecological: DECOMPOSED GRANITE GRAVEL, FOOTHILL WOODLAND ARTIFICIALLY CONVERTED TO GRASSLAND. GRANITE OUTCROPS. ASSOCIATED WITH CALYPTRIDIDIUM PULCHELLUM, QUERCUS WISLIZENII, MADIA MINIMA, ARCTOSTAPHYLOS MARIPOSA, ERODIUM CICUTARIUM, & LUPINUS STIVERSII.
 Threat: PARTIALLY FENCED FROM CATTLE, BUT UNFENCED PORTION SEVERELY IMPACTED. POSSIBLE THREAT FROM ANNUAL GRASS COMPETITION.
 General: 4 POPULATIONS. 1650 PLANTS IN 1991 IN LOWER POLYGON. AT LEAST 1273 PLANTS IN 1995. INCLUDES FORMER OCCURRENCE #2.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 3 Map Index:15421 —Dates Last Seen— Lat/Long: 37°06'55" / 119°23'24" Township: 09S
 Occ Rank: Fair Element: 1989-05-29 UTM: Zone-11 N4110127 E287643 Range: 24E
 Origin: Natural/Native occurrence Site: 1989-05-29 Precision: SPECIFIC Section: 30 Qtr SE
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 80 meters Elevation: 3200 ft
 Main Source: BYXBE, M. 1989 (OBS)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary: Sugarloaf Hill
 Location: SIERRA NATIONAL FOREST, ABOUT 0.5 MILE SSE OF SUGARLOAF HILL (NORTHWEST SIDE JOSE BASIN).
 —Comments—
 Distribution: NORTH SIDE OF SUGARLOAF ROAD.
 Ecological: SANDY, ROCKY OUTCROP WITH ARCTOSTAPHYLOS MARIPOSA AND YELLOW PINE.
 Threat: ADJACENT TO ROAD; A FEW PLANTS IN THE TURN-OUT HAD BEEN CRUSHED BY TIRES IN 1989. 4WD VEHICLES/CAMPING IN AREA.
 General: UNKNOWN HOW MANY PLANTS SEEN IN 1980, 500 SEEN IN 1989.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 7 Map Index:15359 —Dates Last Seen— Lat/Long: 37°03'22" / 119°26'20" Township: 10S
 Occ Rank: Unknown Element: 1979-06-XX UTM: Zone-11 N4103704 E283115 Range: 23E
 Origin: Natural/Native occurrence Site: 1979-06-XX Precision: SPECIFIC Section: 15 Qtr SE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 8.4 ac Elevation: 3200 ft
 Main Source: STEBBINS, J. 1979 (PERS)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary: Big Sandy Bluffs
 Location: BIG SANDY BLUFFS, 1.4 AIRMI SSW OF MEADOW LAKES, 0.25 AIRMI DUE W OF BEAL FIRE RD.
 —Comments—
 Distribution: SITE MAPPED BY MAP PROVIDED BY STEBBINS.
 Ecological:
 Threat:
 General: SEEN IN 1979.
 Owner/Manager: USFS-SIERRA NF, PVT

Full Condensed Report - Multiple Records per Page
Auberry

<i>Lupinus citrinus</i> var. <i>citrinus</i> (cont.) orange lupine Element Code: PDFAB2B103	—List Status—	NDDB Element Ranks	—Other Lists—
	Federal: Species of Concern	Global: G2T2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

Occurrence No. 8 Map Index:15374 —Dates Last Seen— Lat/Long: 37°02'29" / 119°25'35" Township: 10S
 Occ Rank: Unknown Element: 1979-06-XX UTM: Zone-11 N4102039 E284190 Range: 23E
 Origin: Natural/Native occurrence Site: 1979-06-XX Precision: SPECIFIC Section: 23 Qtr SE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 18.0 ac Elevation: 2560 ft
 Main Source: STEBBINS, J. 1979 (PERS)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary: Big Sandy Bluffs
 Location: BIG SANDY BLUFFS, 2.4 AIRMI DUE S OF MEADOW LAKES.
 —Comments—
 Distribution: TWO COLONIES. SITE MAPPED FROM MAP PROVIDED BY STEBBINS.
 Ecological:
 Threat:
 General: FORMER EO 9 LUMPED HERE.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 10 Map Index:15390 —Dates Last Seen— Lat/Long: 37°02'28" / 119°24'35" Township: 10S
 Occ Rank: Fair Element: 1989-04-28 UTM: Zone-11 N4101954 E285675 Range: 23E
 Origin: Natural/Native occurrence Site: 1989-04-28 Precision: SPECIFIC Section: 24 Qtr SE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 40.5 ac Elevation: 2800 ft
 Main Source: BYXBE, M. 1989 (OBS)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary: Big Sandy Bluffs
 Location: BIG SANDY BLUFFS, NNW OF TOLLHOUSE, ON BOTH SIDES OF HWY 168.
 —Comments—
 Distribution: SEVERAL COLONIES MAPPED HERE AS 4 POLYGONS. MAPPED IN SE1/4 SEC 24 AND NE1/4 SEC 25.
 Ecological: ON DECOMPOSED GRANITE SAND ON RIDGE TOP AMONG GRANITE BOULDERS AND SLABS IN YELLOW PINE FOREST/CHAPARRAL
 TRANSITION. STEEP SW-FACING SLOPES WITH LUPINUS STIVERSII.
 Threat: PLANTS INFESTED WITH CATERPILLARS. SOME PLANTS ALSO TRAMPLED BY HUMANS. VERY POOR SITE FOR THE PLANT IN 1989.
 General: 70 PLANTS IN 1989. ADDITIONAL SITES ADDED FROM MAP PROVIDED BY STEBBINS. NORTHEASTERN POLYGON; 300-500
 PLANTS IN 1978, 2000 IN 1989. FORMER EO 11 AND 12 LUMPED HERE. NEEDS FIELDWORK TO CONFIRM LOCATIONS.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 13 Map Index:15387 —Dates Last Seen— Lat/Long: 37°03'49" / 119°24'21" Township: 10S
 Occ Rank: Good Element: 1989-06-10 UTM: Zone-11 N4104437 E286087 Range: 23E
 Origin: Natural/Native occurrence Site: 1989-06-10 Precision: SPECIFIC Section: 13 Qtr N
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 72.7 ac Elevation: 4640 ft
 Main Source: BYXBE, M. 1989 (OBS)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary: Big Sandy Bluffs
 Location: BALD MOUNTAIN S OF CORLEW MEADOWS, W OF ALDER SPRINGS. NEAR MILE HIGH SUBDIVISION.
 —Comments—
 Distribution: MORE SURVEYS NEEDED W OF BALD MTN ROAD, SINCE PLANTS NOT SEEN THERE SINCE 1978. MAPPED AS 8 POLYGONS AT CNDDB.
 Ecological: 4600-4700 FEET ELEVATION. ON OPEN GRANITE SHEETS IN YELLOW PINE FOREST.
 Threat: HOMES NEARBY, ALSO MANY ATV TRAILS RUNNING THROUGH PART OF EASTERNMOST POLYGON.
 General: MANY THOUSANDS OF PLANTS. AREA NEAR END OF BALD MOUNTAIN RD SEARCHED IN 1986 AND NO PLANTS LOCATED. 3000-4000
 PLANTS ESTIMATED IN EASTERNMOST POLYGON IN 1989.
 Owner/Manager: PVT IN USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Auberry

<i>Calyptridium pulchellum</i> Mariposa pussypaws Element Code: PDPOR09060	-----List Status----- Federal: Threatened State: None	-----NDDB Element Ranks----- Global: G1 State: S1.1	-----Other Lists----- CNPS List: 1B R-E-D Code: 3-3-3
--	---	---	---

-----Habitat Associations-----
General: CISMONTANE WOODLAND.
Micro: ON GRANITE DOMES, RESTRICTED TO EXPOSED SITES. 400-1100M.

Occurrence No. 6 Map Index:15412 ---Dates Last Seen--- Lat/Long: 37°06'42" / 119°24'07" Township: 09S
Occ Rank: Good Element: 1995-06-12 UTM: Zone-11 N4109746 E286562 Range: 24E
Origin: Natural/Native occurrence Site: 1995-06-12 Precision: SPECIFIC Section: 30 Qtr SW
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Fluctuating Radius: 80 meters Elevation: 3400 ft
Main Source: HAMON, D. 1980 (OBS)
Quad Summary: AUBERRY (3711914/397C)
County Summary: FRESNO
SNA Summary: Sugarloaf Hill
Location: SIERRA NF, SUGARLOAF CONVERSION PROJECT, (NW SIDE OF JOSE BASIN).
-----Comments-----
Distribution:
Ecological: ON DECOMPOSED GRANITE GRAVEL, FOOTHILL WOODLAND ARTIFICIALLY CONVERTED TO GRASSLAND; ASSOCIATED WITH LUPINUS CITRINUS, MADIA MINIMA, AND ARCTOSTAPHYLOS MARIPOSA.
Threat: HERBICIDE SPRAYING BY USFS COULD THREATEN. FENCE ERECTED TO EXCLUDE CATTLE (1992). MORE ANNUAL GRASSES IN 1995.
General: 23 PLANTS SEEN IN 1980, 58 IN 1991, 770 IN 1992, 59 IN 1995.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Auberry

<i>Carpenteria californica</i> tree-anemone Element Code: PDHDR04010	—List Status—	—NDDB Element Ranks—	—Other Lists—
	Federal: None	Global: G2	CNPS List: 1B
	State: Threatened	State: S2.2	R-E-D Code: 3-2-3

—Habitat Associations—

General: CISMONTANE WOODLAND, CHAPARRAL. ENDEMIC TO FRESNO COUNTY, CALIFORNIA.

Micro: AN VERY LOCALIZED ENDEMIC FOUND ON WELL-DRAINED GRANITIC SOILS, MOSTLY ON N-FACING RAVINES AND DRAINAGES. 340-1340M.

Occurrence No. 1 Map Index:15355 —Dates Last Seen— Lat/Long: 37°05'00" / 119°25'38" Township: 10S
 Occ Rank: Good Element: 1987-XX-XX UTM: Zone-11 N4106680 E284240 Range: 23E
 Origin: Natural/Native occurrence Site: 1987-XX-XX Precision: NON-SPECIFIC Section: 10 Qtr E
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 14,600.6 ac Elevation: 3920 ft
 Main Source: HAMON, D. 1972 (MAP)
 Quad Summary: AUBERRY (3711914/397C)*, SHAVER LAKE (3711913/397D), CASCADEL POINT (3711924/397B)
 County Summary: FRESNO
 SNA Summary: Big Sandy Bluffs
 Location: BIG SANDY BLUFFS NORTH TO JUST SOUTH OF SAN JOAQUIN RIVER NEAR ITALIAN BAR.
 —Comments—
 Distribution: INCLUDES SEVERAL COLLECTIONS FROM "5 MI ABOVE AUBERRY ON ROAD TO PINERIDGE" AND VICINITY.
 Ecological: DECOMPOSED GRANITE IN CHAPARRAL. ASSOCIATED WITH CEANOTHUS, PEDICULARIS, DELPHINIUM, SAMBUCUS, CERCIS OCCIDENTALIS, ASCLEPIAS, ARCTOSTAPHYLOS MARIPOSA, ERIODICTYON CALIFORNICA, AND UMBELLARIA CALIFORNICA.
 Threat: THREATENED BY A PROPOSED NEW STATE HIGHWAY PROJECT AND SPRAWLING FOOTHILL DEVELOPMENT.
 General: PART OF AREA IS USFS RNA; ANOTHER PART IS USFS CARPENTERIA BOTANICAL AREA. SEVERAL THOUSAND PLANTS SEEN IN 1986 ALONG GRADE UP BIG SANDY BLUFFS (HWY 168). HWY BISECTS OCCURRENCE. PART OF OCCURRENCE BURNED IN 1984.
 Owner/Manager: USFS-SIERRA NF, PVT

Occurrence No. 2 Map Index:15338 —Dates Last Seen— Lat/Long: 37°00'52" / 119°27'19" Township: 10S
 Occ Rank: Good Element: 1989-05-17 UTM: Zone-11 N4099085 E281549 Range: 23E
 Origin: Natural/Native occurrence Site: 1989-05-17 Precision: SPECIFIC Section: 34 Qtr W
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 1,013.6 ac Elevation: 3600 ft
 Main Source: HAMON, D. 1972 (MAP)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary: Black Mountain
 Location: BLACK MTN, JUST S OF BIG SANDY VALLEY.
 —Comments—
 Distribution:
 Ecological: IN FOOTHILL WOODLAND AND WET CHAPARRAL. ASSOCIATED WITH RHUS, RIBES, SAMBUCUS AND FREMONTIA. ALSO SEEN IN 1986 AND 1987 AT ELEVATIONS FROM 2400 TO 3000 FEET, ON N AND MOSTLY NW EXPOSURES.
 Threat: THREATENED BY A PROPOSED NEW STATE HIGHWAY PROJECT AND SPRAWLING FOOTHILL DEVELOPMENT.
 General: VEG HAS NOT BEEN BURNED RECENTLY. HUNDREDS OF PLANTS SEEN IN 1987 CENSUS. 9 PLANTS SEEN IN 1989; PLANTS VERY OLD AND ARE PROBABLY RELICTUAL FROM THE BLACK MTN POPS UPSLOPE, ACC TO STEBBINS (1989).
 Owner/Manager: PVT

Occurrence No. 10 Map Index:22759 —Dates Last Seen— Lat/Long: 37°05'55" / 119°26'27" Township: 09S
 Occ Rank: Fair Element: 1989-04-28 UTM: Zone-11 N4108395 E283085 Range: 23E
 Origin: Natural/Native occurrence Site: 1989-04-28 Precision: SPECIFIC Section: 34 Qtr SE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 3.2 ac Elevation: 3700 ft
 Main Source: BYXBE, M. 1989 (OBS)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary:
 Location: BALD MILL CREEK, APPROX. 2 KM (1.25 MI) NNW OF MEADOW LAKES.
 —Comments—
 Distribution: AT SUGARLOAF ROAD AND BALD MILL CREEK APPROX. 1 MILE FROM THE JUNCTION WITH THE AUBERRY/MEADOW LAKES ROAD. PLANTS FOUND ON BOTH SIDES OF THE CREEK BELOW THE ROAD FOR ABOUT 100 YARDS.
 Ecological: GROWING IN SEASONAL STREAM BED OF OPEN CANYON THROUGH CHAPARRAL. SOME PLANTS GROWING 10-20 FEET UP VALLEY SIDES. ASSOCIATES INCLUDE ARCTOSTAPHYLOS SP., QUERCUS WISLIZENII, TOXICODENDRON DIVERSILOBUM, AND SALIX SP..
 Threat: DEVELOPMENT MAY THREATEN SITE VIA SILTATION OF STREAMBED. PLANTS APPEAR STRESSED BY COMPETITION WITH CHAPARRAL.
 General: 100 PLANTS SEEN IN 1989. THIS IS A LARGE POPULATION IN AN EASILY ACCESSIBLE LOCATION AND MAY BE A GOOD STUDY AREA. CABINS AND HOMES FOUND IN SURROUNDING AREA.
 Owner/Manager: UNKNOWN

Full Condensed Report - Multiple Records per Page
Auberry

Lupinus citrinus var. *citrinus* (cont.)
orange lupine
Element Code: PDFAB2B103

-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
Federal: Species of Concern	Global: G2T2	CNPS List: 1B
State: None	State: S2.2	R-E-D Code: 2-2-3

Occurrence No. 66	Map Index:49172	-----Dates Last Seen-----	Lat/Long: 37°05'43" / 119°23'04"	Township: 10S
Occ Rank: Unknown		Element: 1980-09-XX	UTM: Zone-11 N4107925 E288072	Range: 24E
Origin: Natural/Native occurrence		Site: 1980-09-XX	Precision: SPECIFIC	Section: 05 Qtr NW
Presence: Presumed Extant			Symbol Type: POLYGON	Meridian: M
Trend: Unknown			Area: 21.1 ac	Elevation:
Main Source: HAMON, D. 1980 (MAP)				
Quad Summary: AUBERRY (3711914/397C)				
County Summary: FRESNO				
SNA Summary:				
Location: ALONG JOSE CREEK, APPROXIMATELY 0.2 MILE NORTH OF CONFLUENCE OF MUSICK CREEK WITH JOSE CREEK.				
-----Comments-----				
Distribution: MAPPED PRIMARILY IN THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 5				
Ecological:				
Threat:				
General: ONLY SOURCE OF INFORMATION IS 15 MINUTE QUADRANGLE MAP. NEEDS FIELDWORK.				
Owner/Manager: UNKNOWN				

Full Condensed Report - Multiple Records per Page
Auberry

<i>Lupinus citrinus</i> var. <i>citrinus</i> (cont.) orange lupine Element Code: PDFAB2B103	—List Status—	NDDB Element Ranks	Other Lists
	Federal: Species of Concern	Global: G2T2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

Occurrence No. 40 Map Index: 38564 —Dates Last Seen— Lat/Long: 37°01'21" / 119°28'07" Township: 10S
 Occ Rank: Excellent Element: 1989-05-17 UTM: Zone-11 N4099999 E280391 Range: 23E
 Origin: Natural/Native occurrence Site: 1989-05-17 Precision: SPECIFIC Section: 33 Qtr NW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 4.1 ac Elevation: 2060 ft
 Main Source: STEBBINS, J. 1989 (OBS)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary:
 Location: 1.5 MI NW OF BLACK MOUNTAIN, 1.5 MI DUE SOUTH OF WHERE LODGE ROAD CONNECTS WITH HWY 168.
 —Comments—
 Distribution: JUST SOUTH OF ELEVATION MARKER ON TOPO "2189".
 Ecological: ON LOOSE GRANITIC GRAVEL WITHIN FLAT GRANITE OUTCROPS. WITH MIMULUS LAYNEAE, L. BENTHAMII, BROMUS MADRITENSIS
 RUBENS, & LOTUS ARGOPHYLLUS.
 Threat: PRIVATE GRAZING AND NEARBY DEVELOPMENT. BIGGEST THREAT IS PROPOSED CALTRANS HWY PROJECT (HWY 168).
 General: 30 PLANTS IN 1989.
 Owner/Manager: CALTRANS

Occurrence No. 60 Map Index: 49144 —Dates Last Seen— Lat/Long: 37°02'01" / 119°24'45" Township: 10S
 Occ Rank: Unknown Element: 1979-07-18 UTM: Zone-11 N4101144 E285406 Range: 23E
 Origin: Natural/Native occurrence Site: 1979-07-18 Precision: SPECIFIC Section: 25 Qtr NW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 7.7 ac Elevation: 2450 ft
 Main Source: STEBBINS, J. 1979 (PERS)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary:
 Location: SOUTHERN END OF BIG SANDY BLUFFS, 2.2 AIRMILES ESE OF SIERRA JOINT UNION HIGH SCHOOL.
 —Comments—
 Distribution:
 Ecological:
 Threat:
 General: ONLY SOURCE OF INFORMATION IS MAP & LETTER FROM STEBBINS. NEEDS FIELDWORK TO CONFIRM LOCATION.
 Owner/Manager: UNKNOWN

Occurrence No. 65 Map Index: 49171 —Dates Last Seen— Lat/Long: 37°06'34" / 119°22'55" Township: 09S
 Occ Rank: Unknown Element: 1980-09-XX UTM: Zone-11 N4109484 E288327 Range: 24E
 Origin: Natural/Native occurrence Site: 1980-09-XX Precision: SPECIFIC Section: 32 Qtr NW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 2.9 ac Elevation:
 Main Source: HAMON, D. 1980 (MAP)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary:
 Location: WEST OF JOSE CREEK, APPROXIMATELY 1.0 AIRMILE SOUTHEAST OF SUGARLOAF HILL.
 —Comments—
 Distribution: MAPPED IN THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 32
 Ecological:
 Threat:
 General: ONLY SOURCE OF INFORMATION IS 15 MINUTE QUADRANGLE MAP. NEEDS FIELDWORK.
 Owner/Manager: UNKNOWN

Full Condensed Report - Multiple Records per Page
 Auberry

Lupinus citrinus var. citrinus (cont.) orange lupine Element Code: PDFAB2B103	List Status	NDDB Element Ranks	Other Lists
	Federal: Species of Concern	Global: G2T2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

Occurrence No. 37 Map Index:38562 —Dates Last Seen— Lat/Long: 37°06'25" / 119°25'45" Township: 09S
 Occ Rank: Fair Element: 1989-05-28 UTM: Zone-11 N4109303 E284142 Range: 23E
 Origin: Natural/Native occurrence Site: 1989-05-28 Precision: SPECIFIC Section: 35 Qtr N
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 5.6 ac Elevation: 5020 ft
 Main Source: BYXBE, M. 1989 (OBS)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary:
 Location: ABOUT 2.2-2.5 MI SW OF SUGARLOAF HILL, 0.25 MI DUE S OF WHERE SUGARLOAF RD CROSSES SECTION LINE SEPARATING SECS 35 & 26.
 —Comments—
 Distribution:
 Ecological: DECOMPOSED GRANITE FLATS AMONG GRANITE SLABS. WITH OCCASIONAL P. SABINIANA, ARCTOSTAPHYLOS MARIPOSA, AND L. STIVERSII. ABOUT 4080-5060 FT ELEVATION.
 Threat:
 General: 700-800 PLANTS IN 2 SUBPOPULATIONS SEEN IN 1989. NOT THRIVING IN 1989.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 38 Map Index:38561 —Dates Last Seen— Lat/Long: 37°06'06" / 119°25'30" Township: 09S
 Occ Rank: Good Element: 1989-04-29 UTM: Zone-11 N4108699 E284486 Range: 23E
 Origin: Natural/Native occurrence Site: 1989-04-29 Precision: SPECIFIC Section: 35 Qtr SE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 2.7 ac Elevation: 4500 ft
 Main Source: BYXBE, M. 1989 (OBS)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary:
 Location: 2.2 MI SW OF SUGARLOAF HILL, ABOUT 1.5 MI N OF MEADOW LAKES.
 —Comments—
 Distribution: AT LERONA FIRE LANE (UPPER ITALIAN CREEK) AT SUMMIT 4528.
 Ecological: SANDY (DECOMPOSED GRANITE) FIELDS WITH SHORT GRASSES AND CLUMPS OF ARCTOSTAPHYLOS MARIPOSA AND L. CF MICRANTHUS.
 Threat: A FEW SUMMER HOMES NEARBY, AREA SENSITIVE TO VEHICULAR USE; SOME EVIDENCED IN 1989.
 General: 1000 PLANTS IN 1989.
 Owner/Manager: PVT IN USFS-SIERRA NF

Occurrence No. 39 Map Index:38563 —Dates Last Seen— Lat/Long: 37°02'15" / 119°29'37" Township: 10S
 Occ Rank: Good Element: 1993-05-29 UTM: Zone-11 N4101742 E278215 Range: 23E
 Origin: Natural/Native occurrence Site: 1993-05-29 Precision: SPECIFIC Section: 30 Qtr NE
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 80 meters Elevation: 1800 ft
 Main Source: STEBBINS, J. 1993 (OBS)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary:
 Location: 0.45 MI SE OF JCT OF HWY 168 AND AUBERRY ROAD, 0.5 MI SOUTH OF BIG SANDY CREEK.
 —Comments—
 Distribution: FAR NE1/4 OF SECTION 30.
 Ecological: OPEN GRANITIC OUTCROP IN LIVE OAK WOODLAND IN DECOMPOSED GRANITIC SOIL. SURROUNDED BY QUERCUS WISLIZENII, Q. DOUGLASII, AND ARCTOSTAPHYLOS VISCIDA.
 Threat: CURRENTLY GRAZED, SITE PROPOSED FOR SUBDIVISION.
 General: 300 PLANTS IN 1993.
 Owner/Manager: PVT IN USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Auberry

<i>Lupinus citrinus</i> var. <i>citrinus</i> (cont.) orange lupine Element Code: PDFAB2B103	-----List Status-----	NDDB Element Ranks	-----Other Lists-----
	Federal: Species of Concern	Global: G2T2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

Occurrence No. 33 Map Index:38557 ---Dates Last Seen--- Lat/Long: 37°06'16" / 119°23'50" Township: 09S
 Occ Rank: Fair Element: 1989-06-12 UTM: Zone-11 N4108945 E286975 Range: 24E
 Origin: Natural/Native occurrence Site: 1989-06-12 Precision: SPECIFIC Section: 31 Qtr NW
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 80 meters Elevation: 3320 ft
 Main Source: BYXBE, M. 1989 (OBS)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary:
 Location: ABOUT 1.2 MI SSW OF SUGARLOAF HILL, 100 YARDS W OF SUGARLOAF ROAD, 0.3 MI N OF ITS JCT W/FS RD 9S68.
 ---Comments---
 Distribution: SE1/4 OF NW1/4 OF SECTION 31.
 Ecological: IN SMALL POCKETS OF GRANITIC SAND AROUND A GRANITE SLAB ABOUT 100 FT ACROSS. SCATTERED ARCTOSTAPHYLOS AND PONDEROSA.
 Threat: GENERAL AREA IS EXPERIMENTAL RANGE DEVELOPED FOR CATTLE; SOME CATTLE PRINTS IN 1989.
 General: 300 PLANTS IN 1989.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 34 Map Index:38558 ---Dates Last Seen--- Lat/Long: 37°05'55" / 119°24'08" Township: 09S
 Occ Rank: Good Element: 1989-06-12 UTM: Zone-11 N4108302 E286502 Range: 24E
 Origin: Natural/Native occurrence Site: 1989-06-12 Precision: SPECIFIC Section: 31 Qtr SW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 3.1 ac Elevation: 3450 ft
 Main Source: BYXBE, M. 1989 (OBS)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary:
 Location: 1.45-1.65 MI SSW OF SUGARLOAF HILL, WEST SIDE OF SUGARLOAF ROAD, ABOUT 0.2 AND 0.4 MI W OF ITS JCT W/FS RD 9S68.
 ---Comments---
 Distribution: SW1/4 OF SW1/4 OF SECTION 31.
 Ecological: ON A SANDY KNOLL AND SANDY FIELDS AND SHELVES AMONG GRANITE SLABS. WITH SPARSE ARCTOSTAPHYLOS, P. PONDEROSA, LOTUS CF NEVADENSIS, AND ALLIUM SP.
 Threat: LOGGING NEARBY; NORTHERN SUBPOPULATION IS IN A SPOT BESIDE THE ROAD USED FOR TURNING OUT, PARKING, OR PICNICKING.
 General: 2000-4000 PLANTS ESTIMATED IN 1989 IN 2 SUBPOPULATIONS.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 35 Map Index:38559 ---Dates Last Seen--- Lat/Long: 37°05'23" / 119°23'31" Township: 10S
 Occ Rank: Fair Element: 1989-05-29 UTM: Zone-11 N4107308 E287409 Range: 24E
 Origin: Natural/Native occurrence Site: 1989-05-29 Precision: SPECIFIC Section: 06 Qtr NE
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 80 meters Elevation: 3600 ft
 Main Source: BYXBE, M. 1989 (OBS)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary:
 Location: 2.2 MI SOUTH OF SUGARLOAF HILL, EAST OF FS RD 9S68, 0.25 MI NORTH OF ITS JCT WITH ROAD TO CORLEW MEADOWS.
 ---Comments---
 Distribution: SW1/4 OF NE1/4 OF SECTION 6.
 Ecological: IN SANDY FIELD WITH YELLOW PINE, LIVE OAK, AND ARCTOSTAPHYLOS.
 Threat: AREA HAD BEEN LOGGED AND CLEARED AND RECENTLY PLANTED IN PINE; POP. WIDELY SCATTERED THRU PLANTATION.
 General: 400-600 PLANTS ESTIMATED IN 1989.
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Auberry

<i>Lupinus citrinus</i> var. <i>citrinus</i> (cont.) orange lupine Element Code: PDFAB2B103	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: Species of Concern	Global: G2T2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

Occurrence No. 24 Map Index:15434 ---Dates Last Seen--- Lat/Long: 37°03'57" / 119°22'58" Township: 10S
 Occ Rank: Unknown Element: 1980-05-20 UTM: Zone-11 N4104652 E288127 Range: 24E
 Origin: Natural/Native occurrence Site: 1980-05-20 Precision: NON-SPECIFIC Section: 17 Qtr NW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 42.9 ac Elevation: 3960 ft
 Main Source: HAMON, D. 1980 (OBS)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary:
 Location: ABOUT 1 MI E OF ALDER SPRINGS, N OF RD 168, SIERRA NF.
 -----Comments-----
 Distribution: MAPPED IN NW 1/4 OF NW 1/4 OF SECTION 17 PER T-R-S PROVIDED BY HAMON.
 Ecological: S EXPOSURE ON ROCKY OUTCROP.
 Threat: ROAD WIDENING THREAT.
 General: SEVERAL HUNDRED PLANTS SEEN IN 1980.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 31 Map Index:15422 ---Dates Last Seen--- Lat/Long: 37°02'00" / 119°23'09" Township: 10S
 Occ Rank: Unknown Element: 1903-XX-XX UTM: Zone-11 N4101034 E287778 Range: 24E
 Origin: Natural/Native occurrence Site: 1903-XX-XX Precision: NON-SPECIFIC Section: 30 Qtr XX
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 3/5 mile Elevation:
 Main Source: CONGDON, J. SN UC #82057 (HERB)
 Quad Summary: AUBERRY (3711914/397C)*, SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: NEAR TOP OF TOLLHOUSE HILL ABOVE GRAPEVINE SPRING.
 -----Comments-----
 Distribution:
 Ecological: SEEN ON ROCKS.
 Threat:
 General: THIS SPECIMEN WAS ERRONEOUSLY IDENTIFIED AS LUPINUS DEFLEXUS.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 32 Map Index:15342 ---Dates Last Seen--- Lat/Long: 37°04'46" / 119°27'06" Township: 10S
 Occ Rank: Unknown Element: 1969-05-01 UTM: Zone-11 N4106294 E282063 Range: 23E
 Origin: Natural/Native occurrence Site: 1969-05-01 Precision: NON-SPECIFIC Section: 10 Qtr XX
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1 mile Elevation: 3200 ft
 Main Source: MENZIES, B. SN CAS (HERB)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary:
 Location: 3 MI FROM AUBERRY ON JOSE BASIN RD.
 -----Comments-----
 Distribution:
 Ecological:
 Threat:
 General:
 Owner/Manager: USFS-SIERRA NF, PVT?

Full Condensed Report - Multiple Records per Page
Auberry

<i>Lupinus citrinus</i> var. <i>citrinus</i> (cont.) orange lupine Element Code: PDFAB2B103	—List Status—	—NDDB Element Ranks—	—Other Lists—
	Federal: Species of Concern	Global: G2T2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

Occurrence No. 14 Map Index:15386 —Dates Last Seen— Lat/Long: 37°04'35" / 119°24'44" Township: 10S
 Occ Rank: Fair Element: 1990-05-29 UTM: Zone-11 N4105871 E285553 Range: 23E
 Origin: Natural/Native occurrence Site: 1990-05-29 Precision: SPECIFIC Section: 12 Qtr NW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 14.7 ac Elevation: 4450 ft
 Main Source: BYXBE, M. 1989 (OBS)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary: Big Sandy Bluffs
 Location: CORLEW MEADOWS, ALONG BOTH SIDES OF AUBERRY ROAD. FROM 0.05-0.35 MI N OF JCT WITH BALD MOUNTAIN ROAD.
 —Comments—
 Distribution:
 Ecological: ON STERILE DECOMPOSED GRANITE IN YELLOW PINE FOREST. ASSOCIATED WITH ARCTOSTAPHYLOS MARIPOSA AND ALLIUM SP.
 Threat: CABINS NEARBY, VEHICLE TRACKS ACROSS SLABS AND SAND FIELD.
 General: APPROXIMATELY 2000 PLANTS IN 1978, 1000 IN 1989, 2000 PLANTS IN SOUTHERN POLY OBSERVED IN 1990.
 Owner/Manager: PVT IN USFS-SIERRA NF

Occurrence No. 16 Map Index:15446 —Dates Last Seen— Lat/Long: 37°06'37" / 119°22'31" Township: 09S
 Occ Rank: Unknown Element: 1978-05-18 UTM: Zone-11 N4109546 E288935 Range: 24E
 Origin: Natural/Native occurrence Site: 1978-05-18 Precision: SPECIFIC Section: 32 Qtr NW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 5.1 ac Elevation: 3200 ft
 Main Source: BARTEL, J. 1978 (OBS)
 Quad Summary: AUBERRY (3711914/397C)*, SHAVER LAKE (3711913/397D)
 County Summary: FRESNO
 SNA Summary:
 Location: SAN JOSE BASIN ONE MI DUE S OF MATHEWS MILL NEAR (E OF) CONCRETE BRIDGE OVER JOSE CREEK.
 —Comments—
 Distribution: IN NE1/4 OF NW1/4 OF SEC 32.
 Ecological: IN GRANITE SOIL POCKETS ON KNOLL WITH SCE POWER LINE TOWER.
 Threat: COLLECTING AND POWER COMPANY SPRAYING OF EQUIPMENT ARE THREATS.
 General: MORE THAN 1000 PLANTS IN 1978. 1959 COLLECTION BY BACIGALUPI ET AL IN JOSE BASIN ATTRIBUTED TO THIS SITE.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 22 Map Index:15428 —Dates Last Seen— Lat/Long: 37°04'54" / 119°23'09" Township: 10S
 Occ Rank: Good Element: 1989-05-29 UTM: Zone-11 N4106384 E287917 Range: 24E
 Origin: Natural/Native occurrence Site: 1989-05-29 Precision: SPECIFIC Section: 07 Qtr NE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 22.6 ac Elevation: 3700 ft
 Main Source: BYXBE, M. 1989 (OBS)
 Quad Summary: AUBERRY (3711914/397C)
 County Summary: FRESNO
 SNA Summary:
 Location: ALONG JOSE ROAD, AT JCT W/RD TO PRESCOTT HILL AND 0.25 MI N OF JCT. ALSO FOUND 0.25 MI W OF JCT.
 —Comments—
 Distribution: ALSO IN EXTREME SE 1/4 OF SECTION 6.
 Ecological: IN SUNNY OPEN AREA IN SANDY PLACES ON DECOMPOSED GRANITE. IN YELLOW PINE/CHAPARRAL TRANSITION. ASSOCIATED WITH ARCTOSTAPHYLOS MARIPOSA, STREPTANTHUS TORTUOSUS, ALLIUM SP.
 Threat: MUCH OF AREA HAS BEEN THOROUGHLY LOGGED AND REPLANTED IN PINES. ORVS, ROAD WIDENING, CATTLE TRAMPLING ALSO THREATEN.
 General: 2 GROUPS OF PLANTS IN 1979. 100-200 PLANTS IN EACH GROUP. 3 GROUPS IN 1989-TOTAL OF 2200-2400 PLANTS. NORTHERNMOST POLYGON HAD 200 PLANTS IN 1989. FORMER EO #36 LUMPED HERE.
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Millerton Lake East

Aquila chrysaetos
golden eagle

Element Code: ABNKC22010

-----List Status-----

Federal: None
State: None

-----NDDB Element Ranks-----

Global: G5
State: S3

-----Other Lists-----

CDFG Status: SC

-----Habitat Associations-----

General: (NESTING & WINTERING) ROLLING FOOTHILLS MOUNTAIN AREAS, SAGE-JUNIPER FLATS, DESERT.

Micro: CLIFF-WALLED CANYONS PROVIDE NESTING HABITAT IN MOST PARTS OF RANGE; ALSO, LARGE TREES IN OPEN AREAS.

Occurrence No. 29 Map Index:15178 ---Dates Last Seen--- Lat/Long: 37°04'15" / 119°32'17" Township: 10S
Occ Rank: Unknown Element: 1984-05-XX UTM: Zone-11 N4105540 E274357 Range: 22E
Origin: Natural/Native occurrence Site: 1985-XX-XX Precision: NON-SPECIFIC Section: 11 Qtr SE
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1/5 mile Elevation: 2400 ft
Main Source: HOLEMAN, J. 1984 (OBS)
Quad Summary: MILLERTON LAKE EAST (3711915/398D)
County Summary: FRESNO
SNA Summary:
Location: EAST-FACING CLIFFS OF SQUAW LEAP.
-----Comments-----
Distribution: THREE NEST SITES OBSERVED ON BASALT BLUFFS OVERLOOKING OAK WOODLAND.
Ecological:
Threat:
General: NEST SITES ACTIVE UNTIL 1984; INACTIVE, 1985.
HOLEMAN
Owner/Manager: USFS-SIERRA NF

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Millerton Lake East

<i>Falco mexicanus</i> prairie falcon Element Code: ABNKD06090	-----List Status----- Federal: None State: None	-----NDDB Element Ranks----- Global: G5 State: S3	-----Other Lists----- CDFG Status: SC
--	---	---	--

-----Habitat Associations-----

General: (NESTING) INHABITS DRY, OPEN TERRAIN, EITHER LEVEL OR HILLY.

Micro: BREEDING SITES LOCATED ON CLIFFS. FORAGES FAR AFIELD, EVEN TO MARSHLANDS AND OCEAN SHORES.

*** SENSITIVE ***

Occurrence No. 170	Map Index:	-----Dates Last Seen-----	Lat/Long: /	Township:
Occ Rank: Unknown		Element: 1984-05-XX	UTM:	Range:
Origin: Natural/Native occurrence		Site: 1985-XX-XX	Precision:	Section: Qtr
Presence: Presumed Extant			Symbol Type:	Meridian:
Trend: Unknown			Radius:	Elevation:

Main Source: CDFG RAPTOR NEST FILES 1981 (PERS)
Quad Summary: MILLERTON LAKE EAST (3711915/398D)
County Summary: FRESNO, MADERA
SNA Summary:
Location: *SENSITIVE* Location information suppressed.

-----Comments-----
Distribution: Please contact the California Natural Diversity Database, California Department of Fish and Game, for more information: (916) 324-3812.

Ecological:
Threat:
General:
Owner/Manager:

Full Condensed Report -- Multiple Records per Page
 Millerton Lake East

<i>Lytta molesta</i> molestan blister beetle Element Code: IICOL4C030	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: Species of Concern	Global: G2	CDFG Status:
	State: None	State: S2	

-----Habitat Associations-----
 General: INHABITS THE CENTRAL VALLEY OF CALIFORNIA, FROM CONTRA COSTA TO KERN AND TULARE COUNTIES.
 Micro: None for this Element

Occurrence No. 1 Map Index:15041 ---Dates Last Seen--- Lat/Long: 37°02'42" / 119°35'44" Township: 10S
 Occ Rank: Unknown Element: 1980-04-27 UTM: Zone-11 N4102811 E269166 Range: 22E
 Origin: Natural/Native occurrence Site: 1980-04-27 Precision: NON-SPECIFIC Section: 20 Qtr SW
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1/5 mile Elevation: 1980 ft
 Main Source: PINTO, J. 1980 (PERS)
 Quad Summary: MILLERTON LAKE EAST (3711915/398D)
 County Summary: FRESNO
 SNA Summary: Big Table Mountain
 Location: BIG TABLE MOUNTAIN, NEAR THE SUMMIT OF THE NORTHERN PART.
 -----Comments-----
 Distribution: ALL SPECIMENS WERE COLLECTED ON VEGETATION IN DRIED VERNAL POOLS ON THE TABLE MOUNTAIN SUMMIT.
 Ecological: COMMON IN DRY VERNAL POOLS, BUT ABSENT FROM ADJACENT GREEN/FLOWERING, NON-POOL VEGETATION.
 Threat:
 General: UNKNOWN NUMBER OF SPECIMENS COLLECTED BY GLEN HOLSTEIN AND BLAIR CSUTI (NDDB), THEN IDENTIFIED BY DR JOHN D PINTO. 50% WERE COPULATING.
 Owner/Manager: DFG, DPR

Occurrence No. 2 Map Index:15282 ---Dates Last Seen--- Lat/Long: 37°04'46" / 119°29'08" Township: 10S
 Occ Rank: Unknown Element: 19XX-XX-XX UTM: Zone-11 N4106372 E279050 Range: 23E
 Origin: Natural/Native occurrence Site: 19XX-XX-XX Precision: NON-SPECIFIC Section: 08 Qtr N
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1 mile Elevation: 2200 ft
 Main Source: SELANDER, R. 1960 (LIT)
 Quad Summary: AUBERRY (3711914/397C)*, MILLERTON LAKE EAST (3711915/398D)
 County Summary: FRESNO
 SNA Summary:
 Location: AUBERRY, 10 MI WSW OF SHAVER LAKE.
 -----Comments-----
 Distribution: FOUND IN THE CENTRAL VALLEY FROM CONTRA COSTA TO TULARE AND KERN COUNTIES.
 Ecological:
 Threat:
 General: SEASONAL DISTRIBUTION: APRIL 3 - JULY 1. ONE COLLECTED IN APRIL FROM ERODIUM CICUTARIUM; YEAR OF COLLECTION INKNOWN.
 Owner/Manager: PVT, USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Millerton Lake East

<i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle Element Code: IICOL48011	-----List Status-----	NDDB Element Ranks-----	-----Other Lists-----
	Federal: Threatened	Global: G3T2	CDPG Status:
	State: None	State: S2	

-----Habitat Associations-----
General: OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).
Micro: PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Occurrence No. 123 Map Index:33165 ---Dates Last Seen--- Lat/Long: 37°00'48" / 119°35'49" Township: 10S
Occ Rank: Excellent Element: 1995-04-28 UTM: Zone-11 N4099316 E268952 Range: 22E
Origin: Natural/Native occurrence Site: 1995-04-28 Precision: SPECIFIC Section: 32 Qtr SW
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 80 meters Elevation: 1160 ft
Main Source: YORK, D. 1995 (OBS)
Quad Summary: MILLERTON LAKE EAST (3711915/398D)
County Summary: FRESNO
SNA Summary:
Location: 1.3 MILES WEST OF MARSHALL STATION, JUST EAST OF TABLE MOUNTAIN, IN THE MCKENZIE PRESERVE.
-----Comments-----
Distribution: LOCATED ON THE SLOPE BELOW THE BASALTIC CLIFFS OF TABLE MOUNTAIN.
Ecological: HABITAT CONSISTS OF FOOTHILL PINE/OAK WOODLAND, ON A MODERATELY STEEP SLOPE WITH AN EASTERLY ASPECT. AIR TEMPERATURE AT THE TIME OF OBSERVATION WAS ~24 DEGREES CENTIGRADE.
Threat: POTENTIAL THREAT FROM GRAZING; ALTHOUGH SITE IS LOCATED ON A PRESERVE, GRAZING IS CONDUCTED FOR MOST OF THE YEAR.
General: ON 28 APRIL 1995, ONE ADULT BEETLE (12 MM TOTAL LENGTH, ANTENNAE 9 MM) FOUND FORAGING ON A LARGE SAMBUCUS MEXICANA; EXIT HOLES WERE ALSO OBSERVED ON THIS SHRUB. FORMER TNC PRESERVE; NOW MANAGED BY SIERRA FOOTHILL CONSERVANCY.
Owner/Manager: PVT-SIERRA FOOTHILL CONSERV

Full Condensed Report - Multiple Records per Page
 Millerton Lake East

<i>Lepidurus packardii</i> vernal pool tadpole shrimp Element Code: ICBRA10010	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: Endangered	Global: G2G3	CDFG Status:
	State: None	State: S2S3	

-----Habitat Associations-----
 General: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.
 Micro: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Occurrence No. 56 Map Index:15041 ---Dates Last Seen--- Lat/Long: 37°02'42" / 119°35'44" Township: 10S
 Occ Rank: Excellent Element: 1995-04-02 UTM: Zone-11 N4102811 E269166 Range: 22E
 Origin: Natural/Native occurrence Site: 1995-04-02 Precision: NON-SPECIFIC Section: 20 Qtr SW
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1/5 mile Elevation: 1980 ft
 Main Source: TSUKIMURA, B. & B. TRAYLER 1995 (OBS)
 Quad Summary: MILLERTON LAKE EAST (3711915/398D)
 County Summary: FRESNO
 SNA Summary: Big Table Mountain
 Location: BIG TABLE MOUNTAIN, NE OF FRIANT AND EAST OF MILLERTON LAKE.
 -----Comments-----
 Distribution: THE LARGER TWO SWALE-LIKE POOLS CONTAIN LEPIDURUS PACKARDI, AS DO THE TWO LARGE BASIN- OR BOWL-LIKE POOLS BEYOND THE SWALE-LIKE POOLS.
 Ecological: HABITAT CONSISTS OF VERNAL POOLS ON TOP OF A BASALT FLOW. ASSOCIATED PLANTS INCLUDE LASTHENIA FREMONTII, BLENNOSPERMA NANUM VAR NANUM, AND LIMNANTHES DOUGLASSI ROSEA. LINDERIELLA OCCIDENTALIS WAS PRESENT IN THE SOUTHERN-MOST POOL.
 Threat: SITE HAS NOT BEEN GRAZED SINCE DFG ACQUISITION; NON-NATIVE GRASSES ARE ENCROACHING INTO THE EDGES OF THE POOLS/SWALES.
 General: 100'S OF INDIVIDUALS OBSERVED ON 2 APRIL 1995. BURNING OR PROPERLY TIMED GRAZING IS PROBABLY NEEDED TO HELP CONTROL THE ENCROACHMENT BY NON-NATIVE ANNUAL GRASSES.
 Owner/Manager: DFG, DPR

Occurrence No. 117 Map Index:37853 ---Dates Last Seen--- Lat/Long: 37°02'54" / 119°35'45" Township: 10S
 Occ Rank: Excellent Element: 1997-04-04 UTM: Zone-11 N4103180 E269141 Range: 22E
 Origin: Natural/Native occurrence Site: 1997-04-04 Precision: SPECIFIC Section: 20 Qtr NW
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 80 meters Elevation: 1980 ft
 Main Source: TOWNSEND, H. ET AL 1997 (OBS)
 Quad Summary: MILLERTON LAKE EAST (3711915/398D)
 County Summary: FRESNO
 SNA Summary: Big Table Mountain
 Location: BIG TABLE MOUNTAIN ER, 2.8 MI NW OF MARSHALL STATION, 1.9 MI WNW OF JUNCTION WELLBARN & CANAL ROADS, E OF MILLERTON LAKE
 -----Comments-----
 Distribution: "ROUND POOL NEAR THE POINT", 0.8 MILE E OF RIVER MILE 178, SAN JOAQUIN RIVER, MILLERTON LAKE.
 Ecological: VERNAL POOL, POGOGYNE, ERYNGIUM, DOWNINGIA BICOLOR, CASTILLEJA CAMPESTRIS SUCCULENTA, & GRATIOLA HETEROSPALA.
 Threat:
 General: NETTED 1 BIG SHRIMP, 1 JUVENILE, AND 1 DEAD.
 Owner/Manager: DFG-BIG TABLE MOUNTAIN ER

Full Condensed Report - Multiple Records per Page
Millerton Lake East

Lindieriella occidentalis
California lindieriella
Element Code: ICBRA06010

-----List Status-----NDDB Element Ranks-----Other Lists-----
Federal: Species of Concern Global: G2G3 CDFG Status:
State: None State: S2S3

-----Habitat Associations-----

General: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.
Micro: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Occurrence No. 115 Map Index:33343 ---Dates Last Seen--- Lat/Long: 37°02'35" / 119°35'29" Township: 10S
Occ Rank: Excellent Element: 1995-04-02 UTM: Zone-11 N4102599 E269541 Range: 22E
Origin: Natural/Native occurrence Site: 1995-04-02 Precision: SPECIFIC Section: 20 Qtr SE
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 80 meters Elevation: 1940 ft
Main Source: TRAYLER, B. & B. TSUKIMURA 1995 (OBS)
Quad Summary: MILLERTON LAKE EAST (3711915/398D)
County Summary: FRESNO
SNA Summary:
Location: BIG TABLE MOUNTAIN, NE OF FRIANT AND EAST OF MILLERTON LAKE.

-----Comments-----

Distribution:

Ecological: HABITAT CONSISTS OF VERNAL POOLS ON TOP OF A BASALT FLOW. ASSOCIATED PLANTS INCLUDE LASTHENIA FREMONTIA, BLENNOSPERMUM NANUM VAR NANUM, LIMNANTHES DOUGLASSI ROSEA. LEPIDURUS PACKARDI ALSO PRESENT NEARBY.

Threat: PROPERTY HAS NOT BEEN GRAZED SINCE ACQUIRED BY DFG; NON-NATIVE GRASSES ARE BEGINNING TO ENCROACH INTO THE POOLS/SWALES.

General: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED ON 2 APRIL 1995. TO MAINTAIN HEALTHY POOLS AND POPULATIONS OF NATIVE ANNUAL PLANTS, BURNING OR PROPERLY-TIMED GRAZING IS PROBABLY NEEDED TO CONTROL NON-NATIVE ANNUAL GRASSES.

Owner/Manager: DFG, DPR

Full Condensed Report - Multiple Records per Page
Millerton Lake East

Branchinecta lynchi
vernal pool fairy shrimp
Element Code: ICBRA03030

—List Status—	—NDDB Element Ranks—	—Other Lists—
Federal: Threatened	Global: G2G3	CDFG Status:
State: None	State: S2S3	

—Habitat Associations—

General: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.
Micro: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Occurrence No. 244	Map Index:43310	—Dates Last Seen—	Lat/Long: 37°05'52" / 119°35'15"	Township: 09S
Occ Rank: Good		Element: 2000-03-06	UTM: Zone-11 N4108659 E270019	Range: 22E
Origin: Natural/Native occurrence		Site: 2000-03-06	Precision: NON-SPECIFIC	Section: 32 Qtr XX
Presence: Presumed Extant			Symbol Type: POLYGON	Meridian: M
Trend: Unknown			Area: 489.7 ac	Elevation: 2340 ft

Main Source: ARNOLD, R. 2000 (OBS)

Quad Summary: MILLERTON LAKE EAST (3711915/398D)

County Summary: MADERA

SNA Summary:

Location: TOPPING RANCH ON KENNEDY TABLE, ~2 MILES NORTH OF THE EAST END OF MILLERTON LAKE, MADERA COUNTY.

—Comments—

Distribution: SITE OF PROPOSED MITIGATION BANK. B. LYNCHI FOUND IN ABOUT HALF OF THE VERNAL POOLS

Ecological: NON-NATIVE VALLEY AND FOOTHILL GRASSLAND WITH NUMEROUS NORTHERN BASALT VERNAL POOLS, SWALES, AND SEASONAL WETLANDS.

Threat: POSSIBLY GRAZING, PAST GRAZING HAS BEEN ONLY MODERATE.

General: NUMEROUS INDIVIDUALS OBSERVED IN FEBRUARY AND MARCH OF 2000. VOUCHER SPECIMENS DEPOSITED IN CAL ACAD SCI. REPORT INCLUDES POOL NUMBERS, WHICH POOLS HAD SHRIMP, PLANT LIST & PHOTOS OF POOLS.

Owner/Manager: PVT

Full Condensed Report - Multiple Records per Page
Millerton Lake East

Northern Basalt Flow Vernal Pool (cont.)			
Element Code: CTT44131CA	—List Status— Federal: None State: None	—NDDB Element Ranks— Global: G3 State: S2.2	—Other Lists—

Occurrence No. 30 Map Index:15071 —Dates Last Seen— Lat/Long: 37°01'39" / 119°34'58" Township: 10S
Occ Rank: Excellent Element: 1987-06-08 UTM: Zone-11 N4100827 E270254 Range: 22E
Origin: Natural/Native occurrence Site: 1987-06-08 Precision: SPECIFIC Section: 29 Qtr SE
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 4.7 ac Elevation: 1900 ft
Main Source: STEBBINS, J. 1987 (OBS)
Quad Summary: MILLERTON LAKE EAST (3711915/398D)
County Summary: FRESNO
SNA Summary: Big Table Mountain
Location: THE TOP OF TABLE MOUNTAIN, ABOUT ONE MILE NW OF THE JUNCTION OF AUBERRY ROAD WITH WELLBURN ROAD.
—Comments—
Distribution: TWO LARGE VERNAL POOLS.
Ecological: BASALTIC SUBSTRATE, SIGNIFICANT VOLCANIC RUBBLE. W/ORCUTTIA INAEQUALIS, ORTHOCARPUS CAMPESTRIS SUCCULENTUS,
GRATIOLA HETEROSEPALA, ERYNGIUM VASEYI, ALOPECERUS HOWELLII, POGOYNE DOUGLASII, LASTHENIA GLABBERIMA.
Threat: POSSIBLE ORV USE FROM ADJACENT LANDOWNER. SOME CATTLE GRAZING.
General: TNC IS STUDYING SITE FOR POSSIBLE ACQUISITION. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP.
INFO.
Owner/Manager: BLM, PVT

Full Condensed Report - Multiple Records per Page
Millerton Lake East

Northern Basalt Flow Vernal Pool			
Element Code: CTT44131CA	—List Status— Federal: None State: None	NDDB Element Ranks Global: G3 State: S2.2	—Other Lists—

—Habitat Associations—
General: None for this Element
Micro: None for this Element

Occurrence No. 1 Map Index:15014 —Dates Last Seen— Lat/Long: 37°00'39" / 119°36'14" Township: 10S
 Occ Rank: Unknown Element: 1986-05-25 UTM: Zone-11 N4099040 E268321 Range: 22E
 Origin: Natural/Native occurrence Site: 1986-05-25 Precision: NON-SPECIFIC Section: 31 Qtr SE
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1/5 mile Elevation: 1400 ft
 Main Source: BURKE, M. 1980 (LIT)
 Quad Summary: MILLERTON LAKE EAST (3711915/398D)
 County Summary: FRESNO
 SNA Summary: Big Table Mountain
 Location: BIG TABLE MTN. NE OF FRIANT, E OF MILLERTON LAKE.
 —Comments—
 Distribution: VERNAL POOLS SCATTERED AMONG GRASSLAND.
 Ecological: ON TERTIARY BASALT FLOW. HIDEAWAY EXTREMELY STONY LOAM SOILS. MESA IS A REFUGE FOR VALLEY FLOOR ANNUALS. SPECIES LIST AT CNDDDB. LARGE POOL AT N END MAY BE ARTIFICIALLY ENHANCED. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO
 Threat: GRAZED, RD THRU SITE BUT DISTURBANCE LIMITED.
 General:
 Owner/Manager: PVT

Occurrence No. 2 Map Index:15041 —Dates Last Seen— Lat/Long: 37°02'42" / 119°35'44" Township: 10S
 Occ Rank: Unknown Element: 1980-XX-XX UTM: Zone-11 N4102811 E269166 Range: 22E
 Origin: Natural/Native occurrence Site: 1980-XX-XX Precision: NON-SPECIFIC Section: 20 Qtr SW
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1/5 mile Elevation: 1980 ft
 Main Source: BURKE, M. 1980 (LIT)
 Quad Summary: MILLERTON LAKE EAST (3711915/398D)
 County Summary: FRESNO
 SNA Summary: Big Table Mountain
 Location: BIG TABLE MTN. NE OF FRIANT, E OF MILLERTON LAKE.
 —Comments—
 Distribution: LARGE POOL IN AREA W/GRASSLAND.
 Ecological: REFUGE FOR VALLEY FLOOR ANNUALS, THE MESA HAS AN UNUSUAL SPP COMPOSITION. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.
 Threat: LIGHT GRAZING, MODERATE DISTURBANCE.
 General:
 Owner/Manager: DFG, DPR

Occurrence No. 3 Map Index:15020 —Dates Last Seen— Lat/Long: 37°01'26" / 119°36'00" Township: 10S
 Occ Rank: Unknown Element: 1980-XX-XX UTM: Zone-11 N4100480 E268706 Range: 22E
 Origin: Natural/Native occurrence Site: 1980-XX-XX Precision: NON-SPECIFIC Section: 32 Qtr NW
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1/5 mile Elevation: 1800 ft
 Main Source: BURKE, M. 1980 (LIT)
 Quad Summary: MILLERTON LAKE EAST (3711915/398D)
 County Summary: FRESNO
 SNA Summary: Big Table Mountain
 Location: BIG TABLE MTN. NE OF FRIANT. E OF MILLERTON LAKE.
 —Comments—
 Distribution:
 Ecological: MOST ISOLATED AREA OF VERNAL POOLS & GRASSLAND ON MESA. MESA IS REFUGE FOR VALLEY FLOOR ANNUALS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO
 Threat: GRAZING.
 General:
 Owner/Manager: PVT

Full Condensed Report - Multiple Records per Page
Millerton Lake East

<i>Eumops perotis californicus</i> western mastiff bat Element Code: AMACD02011	-----List Status----- Federal: Species of Concern State: None	-----NDDB Element Ranks----- Global: G5T4? State: S3?	-----Other Lists----- CDFG Status: SC
---	---	---	--

-----Habitat Associations-----
General: MANY OPEN, SEMI-ARID TO ARID HABITATS, INCLUDING CONIFER & DECIDUOUS WOODLANDS, COASTAL SCRUB, GRASSLANDS, CHAPARRAL ETC
Micro: ROOSTS IN CREVICES IN CLIFF FACES, HIGH BUILDINGS, TREES & TUNNELS.

Occurrence No. 15 Map Index:33089 ---Dates Last Seen--- Lat/Long: 37°00'15" / 119°36'00" Township: 11S
Occ Rank: Fair Element: 1994-12-23 UTM: Zone-11 N4098298 E268645 Range: 22E
Origin: Natural/Native occurrence Site: 1994-12-23 Precision: NON-SPECIFIC Section: 05 Qtr NW
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1/5 mile Elevation: 1500 ft
Main Source: PHILPOTT, W. & D. YORK 1994 (OBS)
Quad Summary: MILLERTON LAKE EAST (3711915/398D)
County Summary: FRESNO
SNA Summary:
Location: EASTERN EDGE OF TABLE MOUNTAIN, 9 MILES SW OF AUBERRY.
-----Comments-----
Distribution:
Ecological: HABITAT CONSISTS OF BLUE OAK/FOOTHILL PINE.
Threat:
General: 35 MASTIFF BATS WERE OBSERVED AT THE ROOST SITE. FORMER TNC PRESERVE; NOW MANAGED BY SIERRA FOOTHILL CONSERVANCY.
Owner/Manager: PVT-SIERRA FOOTHILL CONSERV

Full Condensed Report - Multiple Records per Page
Millerton Lake East

<i>Eryngium spinosepalum</i> spiny-sepaled button-celery Element Code: PDAPI0Z0Y0	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: Species of Concern	Global: G2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 3-2-3

-----Habitat Associations-----
General: VERNAL POOLS, VALLEY AND FOOTHILL GRASSLAND.
Micro: SOME SITES ON CLAY SOIL OF GRANITIC ORIGIN; VERNAL POOLS, WITHIN GRASSLAND. 100-420M.

Occurrence No. 31 Map Index:50758 ---Dates Last Seen--- Lat/Long: 37°01'55" / 119°34'24" Township: 10S
Occ Rank: Unknown Element: 1994-06-06 UTM: Zone-11 N4101329 E271092 Range: 22E
Origin: Natural/Native occurrence Site: 1994-06-06 Precision: NON-SPECIFIC Section: 28 Qtr XX
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 648.6 ac Elevation: 1860 ft
Main Source: FRANKLIN SN UC #1605293 (HERE)
Quad Summary: MILLERTON LAKE EAST (3711915/398D)
County Summary: FRESNO
SNA Summary:
Location: WEST OF WELL BARN ROAD, NORTH OF MARSHALL HILL, FRESNO COUNTY.
-----Comments-----
Distribution: MAPPED BASED ON T-R-S PROVIDED BY FRANKLIN: T10S R22E S28.
Ecological: VERNAL POOLS ON TRACHYANDESITE.
Threat:
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1994 COLLECTION BY FRANKLIN. NEEDS FIELDWORK.
Owner/Manager: UNKNOWN

Full Condensed Report -- Multiple Records per Page
Millerton Lake East

Carpenteria californica
tree-anemone
Element Code: PDHDR04010

-----List Status-----	NDDB Element Ranks	-----Other Lists-----
Federal: None	Global: G2	CNPS List: 1B
State: Threatened	State: S2.2	R-E-D Code: 3-2-3

-----Habitat Associations-----

General: CISMONTANE WOODLAND, CHAPARRAL. ENDEMIC TO FRESNO COUNTY, CALIFORNIA.

Micro: AN VERY LOCALIZED ENDEMIC FOUND ON WELL-DRAINED GRANITIC SOILS, MOSTLY ON N-FACING RAVINES AND DRAINAGES. 340-1340M.

Occurrence No. 11	Map Index:22811	-----Dates Last Seen-----	Lat/Long: 37°05'38" / 119°32'14"	Township: 10S
Occ Rank: Fair		Element: 1978-XX-XX	UTM: Zone-11 N4108105 E274494	Range: 22E
Origin: Natural/Native occurrence		Site: 1978-XX-XX	Precision: SPECIFIC	Section: 02 Qtr NE
Presence: Presumed Extant			Symbol Type: POINT	Meridian: M
Trend: Unknown			Radius: 80 meters	Elevation: 1120 ft
Main Source: MALLOCH, B. 1978 (LIT)				
Quad Summary: MILLERTON LAKE EAST (3711915/398D)				
County Summary: FRESNO				
SNA Summary:				
Location: NORTH OF SQUAW LEAP ALONG THE SAN JOAQUIN RIVER, 0.5 KM (0.3 MI) ESE OF RIVER MILE 285.				

-----Comments-----

Distribution:

Ecological: GROWING NEAR AN INTERMITTENT STREAM IN A RAVINE WITH ROCKY, GRANITE DERIVED SOILS. ASSOCIATES INCLUDE AESCULUS CALIFORNICA, CERCIS OCCIDENTALIS, QUERCUS CHRYSOLEPIS, RHUS TRILOBATA, AND VITIS CALIFORNICA.

Threat: POTENTIAL IMPACTS FROM ADJACENT HYDROELECTRIC PROJECT WERE TO BE AVOIDED.

General: 1 PLANT SEEN IN 1978. SITE APPEARED TO SHELTERED, SHADY, AND COOL. A SYSTEMATIC SEARCH OF SURROUNDING AREAS WITH SUITABLE HABITAT FAILED TO REVEAL ANY OTHERS.

Owner/Manager: PVT?

Full Condensed Report - Multiple Records per Page
North Fork

Central Valley Drainage Rainbow Trout/Cyprinid Stream			
	—List Status—	—NDDB Element Ranks—	—Other Lists—
Element Code: CARA2422CA	Federal: None	Global: G?	
	State: None	State: S?	

—Habitat Associations—
General: None for this Element
Micro: None for this Element

Occurrence No. 1 Map Index:25576 —Dates Last Seen— Lat/Long: 37°12'15" / 119°29'22" Township: 08S
Occ Rank: Fair Element: 1986-08-13 UTM: Zone-11 N4120219 E279070 Range: 23E
Origin: Natural/Native occurrence Site: 1986-08-13 Precision: NON-SPECIFIC Section: 19 Qtr XX
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 544.2 ac Elevation: 2400 ft
Main Source: BROWN, LARRY 1987 (LIT)
Quad Summary: CASCADEL POINT (3711924/397B)*, NORTH FORK (3711925/398A)
County Summary: MADERA
SNA Summary:
Location: WILLOW CREEK, TRIBUTARY TO SAN JOAQUIN RIVER, AT TOWN OF NORTH FORK.
—Comments—
Distribution: FROM WHISKY CREEK CONFLUENCE UPSTREAM TO LOWER REACHES OF NORTH AND SOUTH FORK WILLOW CK.
Ecological: FISH ASSEMBLAGE INCLUDES RAINBOW TROUT, SACRAMENTO SUCKER, CALIFORNIA ROACH, AND PRICKLY SCULPINS. OAK, ALDER,
ASH AND PINE TREES ARE DOMINANT RIPARIAN VEGETATION.
Threat: DEVELOPMENT, INCLUDING MANY NEW ROADS AROUND TOWN OF NORTH FORK. CONTROLLED FLOWS ON NF WILLOW CREEK BY SERIES
OF DAMS.
General:
Owner/Manager: PVT

Full Condensed Report - Multiple Records per Page
 North Fork

<i>Clemmys marmorata</i> western pond turtle Element Code: ARAAD02030	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: None	Global: G3G4	CDFG Status: SC
	State: None	State: S3	

-----Habitat Associations-----
 General: A THOROUGHLY AQUATIC TURTLE OF PONDS, MARSHES, RIVERS, STREAMS & IRRIGATION DITCHES WITH AQUATIC VEGETATION.
 Micro: NEED BASKING SITES AND SUITABLE (SANDY BANKS OR GRASSY OPEN FIELDS) UPLAND HABITAT FOR EGG-LAYING.

Occurrence No. 43 Map Index: 32799 ---Dates Last Seen--- Lat/Long: 37°10'11" / 119°38'15" Township: 09S
 Occ Rank: Unknown Element: XXXX-XX-XX UTM: Zone-11 N4116746 E265814 Range: 21E
 Origin: Natural/Native occurrence Site: XXXX-XX-XX Precision: NON-SPECIFIC Section: 12 Qtr XX
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1 mile Elevation: 1000 ft
 Main Source: HOLLAND, D. 1988 (PERS)
 Quad Summary: O'NEALS (3711926/398B)*, NORTH FORK (3711925/398A)
 County Summary: MADERA
 SNA Summary:
 Location: FINE GOLD CREEK, APPROX. 4.3 MILES NORTHEAST OF O'NEALS.
 -----Comments-----
 Distribution:
 Ecological:
 Threat:
 General: COLLECTED BY R.W. HANSEN, DATE AND NUMBER OF SPECIMENS UNKNOWN.
 Owner/Manager: UNKNOWN

Occurrence No. 44 Map Index: 32800 ---Dates Last Seen--- Lat/Long: 37°08'24" / 119°31'07" Township: 09S
 Occ Rank: Unknown Element: XXXX-XX-XX UTM: Zone-11 N4113178 E276287 Range: 22E
 Origin: Natural/Native occurrence Site: XXXX-XX-XX Precision: SPECIFIC Section: XX Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 166.1 ac Elevation: 1000 ft
 Main Source: HOLLAND, D. 1988 (PERS)
 Quad Summary: NORTH FORK (3711925/398A)
 County Summary: FRESNO, MADERA
 SNA Summary:
 Location: KERCKHOFF RESERVOIR; APPROX. 4 MILES NORTH OF NEW AUBERRY.
 -----Comments-----
 Distribution:
 Ecological:
 Threat:
 General: CAS/SU SPECIMEN #7801, DATE UNKNOWN.
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
 North Fork

<i>Rana boylei</i> foothill yellow-legged frog Element Code: AAABH01050	-----List Status----- Federal: Species of Concern State: None	-----NDDB Element Ranks----- Global: G3 State: S2S3	-----Other Lists----- CDFG Status: SC
---	---	---	--

-----Habitat Associations-----
 General: PARTLY-SHADED, SHALLOW STREAMS & RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS.
 Micro: NEED AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING. NEED AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.

Occurrence No. 17 Map Index:15008 ---Dates Last Seen--- Lat/Long: 37°11'52" / 119°36'34" Township: 08S
 Occ Rank: Unknown Element: 1970-XX-XX UTM: Zone-11 N4119798 E268397 Range: 22E
 Origin: Natural/Native occurrence Site: 1970-XX-XX Precision: NON-SPECIFIC Section: 31 Qtr NW
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1 mile Elevation: 1320 ft
 Main Source: MOYLE, P. 1972 (PERS)
 Quad Summary: NORTH FORK (3711925/398A)*, O'NEALS (3711926/398B)
 County Summary: MADERA
 SNA Summary:
 Location: LITTLE FINEGOLD LAKE.
 -----Comments-----
 Distribution: FOUND MOSTLY IN SMALL PERMANENT FOOTHILL STREAMS HIGHER THAN 200 M ELEV, IN AREAS NOT OCCUPIED BY BULLFROGS.
 Ecological:
 Threat:
 General: COLL BTWN JULY & SEPT.
 Owner/Manager: PVT

Occurrence No. 25 Map Index:15269 ---Dates Last Seen--- Lat/Long: 37°14'12" / 119°29'50" Township: 08S
 Occ Rank: Unknown Element: 1970-XX-XX UTM: Zone-11 N4123845 E278473 Range: 23E
 Origin: Natural/Native occurrence Site: 1970-XX-XX Precision: NON-SPECIFIC Section: 18 Qtr NE
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1 mile Elevation: 2640 ft
 Main Source: MOYLE, P. 1972 (PERS)
 Quad Summary: CASCADEL POINT (3711924/397B)*, NORTH FORK (3711925/398A), SHUTEYE PEAK (3711934/417C), BASS LAKE
 (3711935/418C)
 County Summary: MADERA
 SNA Summary:
 Location: S FORK WILLOW CREEK.
 -----Comments-----
 Distribution: FOUND MOSTLY IN SMALL PERMANENT FOOTHILL STREAMS HIGHER THAN 200 M ELEV, IN AREAS NOT OCCUPIED BY BULLFROGS.
 Ecological:
 Threat:
 General: COLL BTWN JULY & SEPT.
 Owner/Manager: PVT

Full Condensed Report - Multiple Records per Page
 Millerton Lake East

<i>Orcuttia inaequalis</i> San Joaquin Valley orcutt grass Element Code: PMPOA4G060	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: Threatened	Global: G2	CNPS List: 1B
	State: Endangered	State: S2.1	R-E-D Code: 2-3-3

-----Habitat Associations-----
 General: VERNAL POOLS. ENDEMIC TO THE SAN JOAQUIN VALLEY.
 Micro: 30-755M.

Occurrence No. 47 Map Index:15071 ---Dates Last Seen--- Lat/Long: 37°01'39" / 119°34'58" Township: 10S
 Occ Rank: Good Element: 1997-04-26 UTM: Zone-11 N4100827 E270254 Range: 22E
 Origin: Natural/Native occurrence Site: 1997-04-26 Precision: SPECIFIC Section: 29 Qtr SE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 4.7 ac Elevation: 1900 ft
 Main Source: BIOSYSTEMS ANALYSIS 1988 (LIT)
 Quad Summary: MILLERTON LAKE EAST (3711915/398D)
 County Summary: FRESNO
 SNA Summary: Big Table Mountain
 Location: TOP OF TABLE MTN, APPROX 3/4 MI NW OF MARSHALL HILL, 1 MI NW OF JCT OF AUBERRY RD AND WELLBARN RD.
 -----Comments-----
 Distribution: KNOWN AS TABLE "D", OR THE "FORD-BLM TABLE." WALKING ACCESS IS FROM TNC LAND JUST TO SOUTH. TAKE AUBERRY RD TO UNNAMED DIRT ROAD GOING N JUST W OF MARSHALL STN. CONTACT THE MYERS FIRST SO CAN PARK THERE (AT EUCALYPTUS, W SIDE OF ROAD).
 Ecological: ORCUTTIA IN 2 POOLS SURROUNDED BY GRASSLAND. WITH CASTILLEJA CAMPESTRIS SUCCULENTA, ERYNGIUM VASEYI, ALOPECURUS HOWELLII, POGOGYNE DOUGLASII, LASTHENIA GLABERRIMA, DOWNINGIA BICORNUTA, PLAGIOBOTHRYUS STIPITATUS, & GRATIOLA HETEROSEPALA.
 Threat: NEARBY POOLS ON TABLE C HAVE BEEN DEGRADED BY GRAZING. TABLE D POOLS MOSTLY UNGRAZED. OHV USE SURROUNDING POOLS.
 General: 2000 PLANTS IN 1987, APPROX 8000 IN 1990, ABOUT 560,000 ESTIMATED IN 1993, "THOUSANDS" IN 1995, AT LEAST 5000 IN 1997. SURROUNDING LAND RECENTLY ACQUIRED BY TNC AND DFG.
 Owner/Manager: BLM-HOLLISTER RA, PVT

Occurrence No. 55 Map Index:15037 ---Dates Last Seen--- Lat/Long: 37°07'10" / 119°35'57" Township: 09S
 Occ Rank: Excellent Element: 1995-09-03 UTM: Zone-11 N4111084 E269081 Range: 22E
 Origin: Natural/Native occurrence Site: 1995-09-03 Precision: NON-SPECIFIC Section: 29 Qtr W
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 12.1 ac Elevation: 2475 ft
 Main Source: STEBBINS, J. & B. TRAYLER 1995 (OBS)
 Quad Summary: MILLERTON LAKE EAST (3711915/398D)
 County Summary: MADERA
 SNA Summary:
 Location: NW FINGER OF KENNEDY TABLE; 0.3-0.5 MI DUE W OF HIDEAWAY RANCH.
 -----Comments-----
 Distribution: NEAR AN OLD STONE FENCE.
 Ecological: LARGE POOL (APPROX. 6 ACRES) IN NONNATIVE GRASSLAND WITH DOWNINGIA BICORNUTA, ERYNGIUM VASEYI, PLAGIOBOTHRYUS STIPITATUS, AND POGOGYNE DOUGLASII. HISTORICAL COLLECTION OF GRATIOLA HETEROSEPALA FROM THIS SITE.
 Threat:
 General: MILLIONS OF PLANTS IN 1995. MAPPED AS NON-SPECIFIC POLYGON; MAP DETAIL NEEDED.
 Owner/Manager: PVT

Full Condensed Report - Multiple Records per Page
 Millerton Lake East

<i>Gratiola heterosepala</i> (cont.) Boggs Lake hedge-hyssop Element Code: PDSCR0R060	-----List Status-----	NDDB Element Ranks	-----Other Lists-----
	Federal: Species of Concern	Global: G3	CNPS List: 1B
	State: Endangered	State: S3.1	R-E-D Code: 1-2-2

Occurrence No. 14 Map Index:15071 ---Dates Last Seen--- Lat/Long: 37°01'39" / 119°34'58" Township: 10S
 Occ Rank: Fair Element: 1990-06-15 UTM: Zone-11 N4100827 E270254 Range: 22E
 Origin: Natural/Native occurrence Site: 1990-06-15 Precision: SPECIFIC Section: 29 Qtr SE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 4.7 ac Elevation: 1900 ft
 Main Source: HANSEN, R. 1986 (LIT)
 Quad Summary: MILLERTON LAKE EAST (3711915/398D)
 County Summary: FRESNO
 SNA Summary: Big Table Mountain
 Location: TOP OF TABLE MTN, APPROX 0.75 AIRMI NW OF MARSHALL HILL. 1 MI NW OF THE JUNCTION OF AUBERRY RD AND WELLBARN RD.
 -----Comments-----
 Distribution:
 Ecological: 2 VERNAL POOLS SURROUNDED BY GRASSLAND. ASSOCIATED WITH CASTILLEJA CAMPESTRIS SUCCULENTA, ERYNGIUM VASEYI, AND ORCUTTIA INAEQUALIS.
 Threat: TRAMPLING AND GRAZING BY CATTLE ON PRIVATELY OWNED PROPERTY THREATENS. OVERALL SITE CONDITION SEEMS TO BE DECLINING.
 General: TNC IS STUDYING SITE FOR POSSIBLE ACQUISITION (1990).
 Owner/Manager: BLM-HOLLISTER RA, PVT

Occurrence No. 80 Map Index:37853 ---Dates Last Seen--- Lat/Long: 37°02'54" / 119°35'45" Township: 10S
 Occ Rank: Excellent Element: 1997-04-04 UTM: Zone-11 N4103180 E269141 Range: 22E
 Origin: Natural/Native occurrence Site: 1997-04-04 Precision: SPECIFIC Section: 20 Qtr NW
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 80 meters Elevation: 1980 ft
 Main Source: TOWNSEND, H. ET AL 1997 (OBS)
 Quad Summary: MILLERTON LAKE EAST (3711915/398D)
 County Summary: FRESNO
 SNA Summary: Big Table Mountain
 Location: BIG TABLE MOUNTAIN; "ROUND POOL NEAR THE POINT".
 -----Comments-----
 Distribution:
 Ecological: ASSOCIATED WITH POGOYNE, ERYNGIUM, DOWNINGIA BICOLOR, & CASTILLEJA CAMPESTRIS SUCCULENTA. LEPIDURUS PACKARDI ALSO HERE.
 Threat:
 General: THOUSANDS OF PLANTS IN 1997.
 Owner/Manager: DFG-BIG TABLE MOUNTAIN ER

Full Condensed Report - Multiple Records per Page
Millerton Lake East

<i>Gratiola heterosepala</i> Boggs Lake hedge-hyssop Element Code: PDSCR0R060	-----List Status-----	NDDB Element Ranks-----	-----Other Lists-----
	Federal: Species of Concern	Global: G3	CNPS List: 1B
	State: Endangered	State: S3.1	R-E-D Code: 1-2-2

-----Habitat Associations-----

General: MARSHES AND SWAMPS (FRESHWATER), VERNAL POOLS.
 Micro: CLAY SOILS; USUALLY IN VERNAL POOLS, SOMETIMES ON LAKE MARGINS. 5-2400M.

Occurrence No. 4 Map Index:15037 ---Dates Last Seen--- Lat/Long: 37°07'10" / 119°35'57" Township: 09S
 Occ Rank: Unknown Element: 1961-04-29 UTM: Zone-11 N4111084 E269081 Range: 22E
 Origin: Natural/Native occurrence Site: 1961-04-29 Precision: NON-SPECIFIC Section: 29 Qtr W
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 12.1 ac Elevation: 2475 ft
 Main Source: BACIGALUPI, R. 1977 (PERS)
 Quad Summary: MILLERTON LAKE EAST (3711915/398D)
 County Summary: MADERA
 SNA Summary:
 Location: 0.5 MI W OF HIDEAWAY RANCH, 3.5 MI N OF TEMPERANCE FLAT. TOP OF NW FINGER OF KENNEDY TABLE.
 -----Comments-----
 Distribution: ON FLAT TOP MESA.
 Ecological: IN SHALLOW WATER OR AT EDGE OF POND ON WEATHERED BASALT SOIL, PH 5. ASSOCIATED VEGETATION INCLUDES ERYNGIUM VASEYI, QUERCUS DOUGLASII, PINUS SABINANA AND CEANOTHUS SP.
 Threat:
 General:
 Owner/Manager: PVT

Occurrence No. 5 Map Index:15060 ---Dates Last Seen--- Lat/Long: 37°02'32" / 119°35'14" Township: 10S
 Occ Rank: Unknown Element: 198X-XX-XX UTM: Zone-11 N4102484 E269899 Range: 22E
 Origin: Natural/Native occurrence Site: 198X-XX-XX Precision: NON-SPECIFIC Section: 20 Qtr SE
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1/5 mile Elevation: 1980 ft
 Main Source: HAMON, D. ND (OBS)
 Quad Summary: MILLERTON LAKE EAST (3711915/398D)
 County Summary: FRESNO
 SNA Summary: Big Table Mountain
 Location: BIG TABLE MOUNTAIN.
 -----Comments-----
 Distribution: IN SE 1/4 OF SE 1/4 OF SECTION 20.
 Ecological: IN VERNAL POOL WITH CASTILLEJA CAMPESTRIS SUCCULENTA.
 Threat: PROPOSED DUMP A THREAT IN 1981.
 General:
 Owner/Manager: UNKNOWN

Occurrence No. 13 Map Index:15038 ---Dates Last Seen--- Lat/Long: 37°01'32" / 119°35'46" Township: 10S
 Occ Rank: Unknown Element: 1986-05-25 UTM: Zone-11 N4100656 E269058 Range: 22E
 Origin: Natural/Native occurrence Site: 1986-05-25 Precision: NON-SPECIFIC Section: 29 Qtr SW
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1/5 mile Elevation: 1800 ft
 Main Source: HANSEN, R. 1986 (LIT)
 Quad Summary: MILLERTON LAKE EAST (3711915/398D)
 County Summary: FRESNO
 SNA Summary: Big Table Mountain
 Location: TABLE MTN, 1.5 WNW OF MARSHALL HILL.
 -----Comments-----
 Distribution:
 Ecological:
 Threat:
 General: NONE.
 Owner/Manager: BLM-HOLLISTER RA

Full Condensed Report - Multiple Records per Page
 Millerton Lake East

Castilleja campestris ssp. succulenta (cont.) succulent owl's-clover Element Code: PDSCR0D3Z1	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: Threatened	Global: G4?T2	CNPS List: 1B
	State: Endangered	State: S2.2	R-E-D Code: 2-2-3

Occurrence No. 35 Map Index:15071 ---Dates Last Seen--- Lat/Long: 37°01'39" / 119°34'58" Township: 10S
 Occ Rank: Excellent Element: 1995-04-26 UTM: Zone-11 N4100827 E270254 Range: 22E
 Origin: Natural/Native occurrence Site: 1995-04-26 Precision: SPECIFIC Section: 29 Qtr SE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 4.7 ac Elevation: 1900 ft
 Main Source: PRENDUSI, T. 1990 (OBS)
 Quad Summary: MILLERTON LAKE EAST (3711915/398D)
 County Summary: FRESNO
 SNA Summary: Big Table Mountain
 Location: TABLE MOUNTAIN; ONE MILE NORTHWEST OF AUBERRY ROAD/WELLBARN ROAD JUNCTION (MARSHALL STATION).
 -----Comments-----
 Distribution: WITHIN THE SE 1/4 OF THE SE 1/4 OF SECTION 29 AND THE SW 1/4 OF THE SW 1/4 OF SECTION 28. POOLS REFERRED TO AS "TABLE D" OR "FORD-BLM TABLE".
 Ecological: VERNAL POOLS ON BASALTIC SUBSTRATE WITH SIGNIFICANT BASALTIC RUBBLE. ASSOCIATED WITH ORCUTTIA INAEQUALIS, GRATIOLA HETEROSEPALA, ERYNGIUM VASEYI, ALOPECURUS HOWELII, POGOYNE DOUGLASII, DOWNINGIA BICORNUTA, AND LASTHENIA GLABBERIMA.
 Threat: MODERATE CATTLE GRAZING AND POTENTIAL ORV USE.
 General: 30,000 PLANTS ESTIMATED IN 1993, 100 ESTIMATED IN 1995.
 Owner/Manager: PVT, BLM

Occurrence No. 42 Map Index:29050 ---Dates Last Seen--- Lat/Long: 37°01'37" / 119°36'02" Township: 10S
 Occ Rank: Good Element: 1993-04-15 UTM: Zone-11 N4100806 E268677 Range: 22E
 Origin: Natural/Native occurrence Site: 1993-04-15 Precision: NON-SPECIFIC Section: 29 Qtr SW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 16.9 ac Elevation: 1800 ft
 Main Source: FRANKLIN, A. 1993 (OBS)
 Quad Summary: MILLERTON LAKE EAST (3711915/398D)
 County Summary: FRESNO
 SNA Summary:
 Location: TABLE MOUNTAIN; 1.4-1.8 AIRMI NW OF MARSHALL HILL SUMMIT, EAST OF MILLERTON LAKE.
 -----Comments-----
 Distribution: THIS SITE APPARENTLY REFERRED TO AS "TABLE C" OR "BLM-TNC TABLE".
 Ecological: SERIES OF POOLS. OTHER RARE PLANTS INCLUDING GRATIOLA HETEROSEPALA AND ORCUTTIA INAEQUALIS NEARBY.
 Threat: SOME OF THE POOLS HERE WERE DEGRADED FROM PAST HEAVY GRAZING. FENCED IN 1992. POOLS WERE RECOVERING IN 1993.
 General: AT LEAST 10,000 PLANTS ESTIMATED IN 1993. FORMERLY PARTIALLY WITHIN TNC PRESERVE; THIS PART NOW MANAGED BY SIERRA FOOTHILL CONSERVANCY.
 Owner/Manager: BLM-HOLLISTER RA, OTHER

Full Condensed Report - Multiple Records per Page
Millerton Lake East

<i>Castilleja campestris ssp. succulenta</i> succulent owl's-clover Element Code: PDSCR0D3Z1	—List Status—	—NDDB Element Ranks—	—Other Lists—
	Federal: Threatened	Global: G4?T2	CNPS List: 1B
	State: Endangered	State: S2.2	R-E-D Code: 2-2-3

—Habitat Associations—
General: VERNAL POOLS, VALLEY AND FOOTHILL GRASSLAND.
Micro: MOIST PLACES, OFTEN IN ACIDIC SOILS. 25-750M.

Occurrence No. 4 Map Index:08004 —Dates Last Seen— Lat/Long: 37°02'34" / 119°35'25" Township: 10S
 Occ Rank: Excellent Element: 1997-04-04 UTM: Zone-11 N4102556 E269628 Range: 22E
 Origin: Natural/Native occurrence Site: 1997-04-04 Precision: SPECIFIC Section: 20 Qtr SE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 2.6 ac Elevation: 1960 ft
 Main Source: TOWNSEND, H. ET AL. 1997 (OBS)
 Quad Summary: MILLERTON LAKE EAST (3711915/398D)
 County Summary: FRESNO
 SNA Summary: Big Table Mountain
 Location: BIG TABLE MOUNTAIN, ABOUT 1.2 MI SSW OF TEMPERANCE FLAT AND 1.4 MILES WEST OF WELLBARN ROAD, EAST OF MILLERTON LAKE.

—Comments—
 Distribution: SINGLE COLONY MAPPED ALONG THE WEST SIDE OF TRAIL IN W 1/2 OF SE 1/4 OF SECTION 20.
 Ecological: IN NORTHERN BASALT-FLOW VERNAL POOL WITH POGOGYNE, ERYNGIUM, AND DOWNINGIA BICOLOR. GRATIOLA HETEROSEPALA REPORTED FROM THIS SITE IN 1981.
 Threat: A PROPOSED DUMP THREATENED THE POPULATION IN 1981.
 General: 1000+ PLANTS OBSERVED IN 1997.
 Owner/Manager: DFG

Occurrence No. 12 Map Index:37853 —Dates Last Seen— Lat/Long: 37°02'54" / 119°35'45" Township: 10S
 Occ Rank: Excellent Element: 1997-04-04 UTM: Zone-11 N4103180 E269141 Range: 22E
 Origin: Natural/Native occurrence Site: 1997-04-04 Precision: SPECIFIC Section: 20 Qtr NW
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 80 meters Elevation: 1980 ft
 Main Source: TOWNSEND, H. ET AL. 1997 (OBS)
 Quad Summary: MILLERTON LAKE EAST (3711915/398D)
 County Summary: FRESNO
 SNA Summary: Big Table Mountain
 Location: BIG TABLE MOUNTAIN, ABOUT 1 MILE SW OF TEMPERANCE FLAT AND 1.7 MILES WEST OF WELLBARN ROAD, EAST OF MILLERTON LAKE.

—Comments—
 Distribution: SINGLE COLONY MAPPED ALONG THE WEST SIDE OF TRAIL IN SE 1/4 OF NW 1/4 SECTION 20. "ROUND POOL NEAR THE POINT".
 Ecological: SOIL A HEAVY CLAY, GROWING AT THE DRYER EDGES OF A VERNAL POOL. IN ASSOCIATION WITH POGOGYNE DOUGLASII, TRIFOLIUM VARIEGATUM, DOWNINGIA BICORNUTA, D. BOCOLOR, AND ERYNGIUM. GRATIOLA HETEROSEPALA AND LEPIDURUS PACKARDII AT THIS SITE TOO.
 Threat:
 General: 1000'S OF PLANTS OBSERVED IN 1997.
 Owner/Manager: DFG

Occurrence No. 34 Map Index:25496 —Dates Last Seen— Lat/Long: 37°06'14" / 119°35'28" Township: 09S
 Occ Rank: Unknown Element: 1961-04-29 UTM: Zone-11 N4109327 E269747 Range: 22E
 Origin: Natural/Native occurrence Site: 1961-04-29 Precision: NON-SPECIFIC Section: 32 Qtr XX
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1 mile Elevation: 2300 ft
 Main Source: BACIGALUPI, R. #7658 JEPS (HERB)
 Quad Summary: MILLERTON LAKE EAST (3711915/398D)
 County Summary: MADERA
 SNA Summary:
 Location: KENNEDY TABLE, 5 MILES EAST OF O'NEALS.

—Comments—
 Distribution:
 Ecological:
 Threat:
 General: ONLY SOURCE OF INFORMATION IS 1961 COLLECTION BY BACIGALUPI. AREA SHOULD BE SEARCHED FOR PRESENCE OF SUITABLE HABITAT.
 Owner/Manager: UNKNOWN

Full Condensed Report -- Multiple Records per Page
 North Fork

Central Valley Drainage Hardhead/Squawfish Stream			
	-----List Status-----	NDDB Element Ranks	-----Other Lists-----
Element Code: CARA2443CA	Federal: None	Global: G?	
	State: None	State: S?	

-----Habitat Associations-----
 General: None for this Element
 Micro: None for this Element

Occurrence No. 5 Map Index:25577 ---Dates Last Seen--- Lat/Long: 37°08'12" / 119°29'19" Township: 09S
 Occ Rank: Good Element: 1986-XX-XX UTM: Zone-11 N4112727 E278942 Range: 23E
 Origin: Natural/Native occurrence Site: 1986-XX-XX Precision: NON-SPECIFIC Section: 28 Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Decreasing Area: 559.3 ac Elevation: 1200 ft
 Main Source: MOYLE, PETER 1991 (LIT)
 Quad Summary: CASCADEL POINT (3711924/397B)*, AUBERRY (3711914/397C), NORTH FORK (3711925/398A)
 County Summary: FRESNO, MADERA
 SNA Summary:
 Location: SAN JOAQUIN RIVER, BETWEEN KERCKHOFF & REDINGER RESERVOIRS.
 -----Comments-----
 Distribution: BETWEEN KERCKHOFF RESERVOIR AND REDINGER RESERVOIR. ALSO INCLUDES WILLOW CREEK FROM MOUTH TO CONFLUENCE OF WHISKY CREEK.
 Ecological: DEEP, ROCKY POOL HABITAT IN STEEP CANYON WHICH CONTAINS HARDHEAD, SQUAWFISH, AND SACRAMENTO SUCKER. FLOWS ARE REGULATED BY UPSTREAM DAMS. WILLOW, PINE, OAK, COTTONWOOD, AND CEDAR RIPARIAN VEGETATION.
 Threat: GRAZING DEGRADING STREAMBANKS ON LOWER WILLOW CREEK. DAMS UPSTREAM MINIMIZING FLOWS.
 General: LOCAL SUPPORT FOR PROTECTION OF STREAM BY "SAVE OUR STREAMS, INC."
 Owner/Manager: PVT

Occurrence No. 7 Map Index:25575 ---Dates Last Seen--- Lat/Long: 37°09'37" / 119°30'34" Township: 09S
 Occ Rank: Fair Element: 1986-08-14 UTM: Zone-11 N4115397 E277171 Range: 23E
 Origin: Natural/Native occurrence Site: 1986-08-14 Precision: NON-SPECIFIC Section: 07 Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 82.5 ac Elevation: 1080 ft
 Main Source: BROWN, LARRY 1987 (LIT)
 Quad Summary: NORTH FORK (3711925/398A)
 County Summary: MADERA
 SNA Summary:
 Location: UNNAMED TRIB TO KERCKHOFF LAKE ALONG AUBERRY ROAD, MADERA CO.
 -----Comments-----
 Distribution: FROM MOUTH UPSTREAM TO FIRST FORK IN TRIBUTARY.
 Ecological: HARDHEAD, SQUAWFISH AND SACRAMENTO SUCKERS ALL IN DEEP, BOULDER POOL. FLOW ABOUT 1/10 CFS. STICKLEBACK ALSO FOUND, MOSTLY AT MOUTH ON SANDY SUBSTRATE. OAK AND WILLOW RIPARIAN VEGETATION.
 Threat: GRAZING, ROAD CROSSINGS, SEDIMENT ACCUMULATION AT MOUTH IN RESERVOIR.
 General:
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
North Fork

<i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle Element Code: IICOL48011	-----List Status-----	NDDB Element Ranks-----	-----Other Lists-----
	Federal: Threatened	Global: G3T2	CDFG Status:
	State: None	State: S2	

-----Habitat Associations-----
General: OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).
Micro: PREFERS TO LAY EGGS IN ELDERBERRRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Occurrence No. 187 Map Index:44676 ---Dates Last Seen--- Lat/Long: 37°13'25" / 119°30'42" Township: 08S
Occ Rank: Good Element: 2000-11-28 UTM: Zone-11 N4122459 E277139 Range: 22E
Origin: Natural/Native occurrence Site: 2000-11-28 Precision: NON-SPECIFIC Section: 24 Qtr NE
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1/10 mile Elevation: 2800 ft
Main Source: PERKINS, D. 2000 (OBS)
Quad Summary: NORTH FORK (3711925/398A)
County Summary: MADERA
SNA Summary:
Location: WEST OF WILLOW CREEK, 0.5 MILE SOUTH OF NORTH FORK
-----Comments-----
Distribution:
Ecological: SURROUNDING HABITATS CONSIST OF PONDEROSA PINE, CHAPARRAL, AND INTERIOR LIVE OAK FORESTS; VEGETATED BY BUCKBRUSH, MAZANITA, AND POISON OAK.
Threat:
General: 2 EXIT HOLES OBSERVED ON A PLANT THAT WAS TRANSPLANTED, 28 NOV 2000 AS PART OF A CONSERVATION EASEMENT. BUSHES TO BE MAINTAINED BY RANCHERIA.
Owner/Manager: BIA-NORTH FORK RANCHERIA

Full Condensed Report - Multiple Records per Page
Cascadel Point

Central Valley Drainage Hardhead/Squawfish Stream	_____List Status_____	_____NDDB Element Ranks_____	_____Other Lists_____
Element Code: CARA2443CA	Federal: None	Global: G?	
	State: None	State: S?	

_____Habitat Associations_____

General: None for this Element
Micro: None for this Element

Occurrence No. 5 Map Index:25577 —Dates Last Seen— Lat/Long: 37°08'12" / 119°29'19" Township: 09S
Occ Rank: Good Element: 1986-XX-XX UTM: Zone-11 N4112727 E278942 Range: 23E
Origin: Natural/Native occurrence Site: 1986-XX-XX Precision: NON-SPECIFIC Section: 28 Qtr XX
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Decreasing Area: 559.3 ac Elevation: 1200 ft
Main Source: MOYLE, PETER 1991 (LIT)
Quad Summary: CASCADEL POINT (3711924/397B)*, AUBERRY (3711914/397C), NORTH FORK (3711925/398A)
County Summary: FRESNO, MADERA
SNA Summary:
Location: SAN JOAQUIN RIVER, BETWEEN KERCKHOFF & REDINGER RESERVOIRS.

_____Comments_____

Distribution: BETWEEN KERCKHOFF RESERVOIR AND REDINGER RESERVOIR. ALSO INCLUDES WILLOW CREEK FROM MOUTH TO CONFLUENCE OF WHISKY CREEK.
Ecological: DEEP, ROCKY POOL HABITAT IN STEEP CANYON WHICH CONTAINS HARDHEAD, SQUAWFISH, AND SACRAMENTO SUCKER. FLOWS ARE REGULATED BY UPSTREAM DAMS. WILLOW, PINE, OAK, COTTONWOOD, AND CEDAR RIPARIAN VEGETATION.
Threat: GRAZING DEGRADING STREAMBANKS ON LOWER WILLOW CREEK. DAMS UPSTREAM MINIMIZING FLOWS.
General: LOCAL SUPPORT FOR PROTECTION OF STREAM BY "SAVE OUR STREAMS, INC."
Owner/Manager: PVT

Full Condensed Report - Multiple Records per Page
Cascadel Point

Central Valley Drainage Rainbow Trout/Cyprinid Stream

-----List Status----- NDDB Element Ranks----- Other Lists-----
Element Code: CARA2422CA Federal: None Global: G?
 State: None State: S?

-----Habitat Associations-----
General: None for this Element
Micro: None for this Element

Occurrence No. 1 Map Index:25576 ---Dates Last Seen--- Lat/Long: 37°12'15" / 119°29'22" Township: 08S
Occ Rank: Fair Element: 1986-08-13 UTM: Zone-11 N4120219 E279070 Range: 23E
Origin: Natural/Native occurrence Site: 1986-08-13 Precision: NON-SPECIFIC Section: 19 Qtr XX
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 544.2 ac Elevation: 2400 ft
Main Source: BROWN, LARRY 1987 (LIT)
Quad Summary: CASCADEL POINT (3711924/397B)*, NORTH FORK (3711925/398A)
County Summary: MADERA
SNA Summary:
Location: WILLOW CREEK, TRIBUTARY TO SAN JOAQUIN RIVER, AT TOWN OF NORTH FORK.
-----Comments-----
Distribution: FROM WHISKY CREEK CONFLUENCE UPSTREAM TO LOWER REACHES OF NORTH AND SOUTH FORK WILLOW CK.
Ecological: FISH ASSEMBLAGE INCLUDES RAINBOW TROUT, SACRAMENTO SUCKER, CALIFORNIA ROACH, AND PRICKLY SCULPINS. OAK, ALDER,
ASH AND PINE TREES ARE DOMINANT RIPARIAN VEGETATION.
Threat: DEVELOPMENT, INCLUDING MANY NEW ROADS AROUND TOWN OF NORTH FORK. CONTROLLED FLOWS ON NF WILLOW CREEK BY SERIES
OF DAMS.
General:
Owner/Manager: PVT

Full Condensed Report - Multiple Records per Page
Cascadel Point

Central Valley Drainage Resident Rainbow Trout Stream

Element Code: CARA2421CA	-----List Status----- Federal: None State: None	-----NDDB Element Ranks----- Global: G? State: S?	-----Other Lists-----
--------------------------	---	---	-----------------------

-----Habitat Associations-----
General: None for this Element
Micro: None for this Element

Occurrence No. 5	Map Index:25877	-----Dates Last Seen-----	Lat/Long: 37°13'28" / 119°27'27"	Township: 08S
Occ Rank: Good		Element: 1986-08-13	UTM: Zone-11 N4122400 E281955	Range: 23E
Origin: Natural/Native occurrence		Site: 1986-08-13	Precision: NON-SPECIFIC	Section: 16 Qtr XX
Presence: Presumed Extant			Symbol Type: POLYGON	Meridian: M
Trend: Unknown			Area: 808.9 ac	Elevation: 3600 ft
Main Source: MOYLE, PETER 1991 (LIT)				
Quad Summary: CASCADEL POINT (3711924/397B)*, SHUTEYE PEAK (3711934/417C)				
County Summary: MADERA				
SNA Summary:				
Location: WHISKY CREEK, TRIB TO WILLOW CK, NORTH OF REDINGER RESERVOIR.				
-----Comments-----				
Distribution: FROM MOUTH TO WHISKY FALLS. INCLUDES MAJOR TRIBS WITH TROUT.				
Ecological: MIXED POPULATION OF RAINBOW AND BROWN TROUT. WELL SHADED STREAM WITH BOULDER SUBSTRATE AND FLOW OF ABOUT 2 CFS. ASH, ALDER AND OAK RIPARIAN VEGETATION.				
Threat: HOUSES BUILT ALONG STREAM. ROAD CROSSINGS COMMON.				
General:				
Owner/Manager: USFS-SIERRA NF				

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Cascadel Point

<i>Clemmys marmorata</i> western pond turtle Element Code: ARAAD02030	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: None	Global: G3G4	CDFG Status: SC
	State: None	State: S3	

-----Habitat Associations-----
 General: A THOROUGHLY AQUATIC TURTLE OF PONDS, MARSHES, RIVERS, STREAMS & IRRIGATION DITCHES WITH AQUATIC VEGETATION.
 Micro: NEED BASKING SITES AND SUITABLE (SANDY BANKS OR GRASSY OPEN FIELDS) UPLAND HABITAT FOR EGG-LAYING.

Occurrence No. 45 Map Index:32801 ---Dates Last Seen--- Lat/Long: 37°08'56" / 119°23'59" Township: 09S
 Occ Rank: Fair Element: 1993-07-20 UTM: Zone-11 N4113879 E288678 Range: 24E
 Origin: Natural/Native occurrence Site: 1993-07-20 Precision: SPECIFIC Section: 18 Qtr NW
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 80 meters Elevation: 1403 ft
 Main Source: REPLOGLE, R. 1993 (OBS)
 Quad Summary: CASCADEL POINT (3711924/397B)
 County Summary: FRESNO
 SNA Summary:
 Location: AT THE CONFLUENCE OF SAN JOAQUIN RIVER AND ITALIAN CREEK.
 -----Comments-----
 Distribution: SITE OCCURS IN THE PINE RIDGE DISTRICT OF THE SIERRA NATIONAL FOREST.
 Ecological: STREAM WITH MANY POOLS, LOW FLOW.
 Threat: POSSIBLE THREAT: SHALLOW WATER.
 General: 1 ADULT, 2 JUVENILES OBSERVED FORAGING IN POOLS.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 50 Map Index:32806 ---Dates Last Seen--- Lat/Long: 37°06'59" / 119°22'42" Township: 09S
 Occ Rank: Excellent Element: 1993-07-21 UTM: Zone-11 N4110230 E288698 Range: 24E
 Origin: Natural/Native occurrence Site: 1993-07-21 Precision: SPECIFIC Section: XX Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 338.0 ac Elevation: 2000 ft
 Main Source: REPLOGLE, R. 1993 (OBS)
 Quad Summary: AUBERRY (3711914/397C)*, SHAVER LAKE (3711913/397D), MUSICK MTN. (3711923/397A), CASCADEL POINT (3711924/397B)
 County Summary: FRESNO
 SNA Summary:
 Location: JOSE CREEK, FROM SCE POWERHOUSE #3 TO THE SOUTH FOR APPROX. 6.0 MILES, JOSE BASIN.
 -----Comments-----
 Distribution: TURTLES FOUND IN POOLS THROUGHOUT ENTIRE 6 MILES OF STREAM.
 Ecological: STREAM WITH POOLS, CHANNEL TYPE RANGED FROM STEEP BEDROCK TO FLAT SILTY.
 Threat: BULLFROGS.
 General: 7/21/93: 38 ADULTS, 10 JUVENILES, 6 HATCHLINGS OBSERVED BY R. REPLOGLE. 7/15/88: 8 CAPTURED & RELEASED BY R.W. HANSEN & D.C. HOLLAND AT SCE POWERHOUSE #3. UNKNOWN NUMBER OBSERVED BY R.W. HANSEN & D.C. HOLLAND AT JOSE BASIN RD. DATE UNKNOWN.
 Owner/Manager: USFS-SIERRA NF

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Cascadel Point

<i>Strix nebulosa</i> great gray owl Element Code: ABNSB12040	-----List Status----- Federal: None State: Endangered	-----NDDB Element Ranks----- Global: G5 State: S1	-----Other Lists----- CDFG Status:
---	---	---	---------------------------------------

-----Habitat Associations-----
General: (NESTING) RESIDENT OF MIXED CONIFER OR RED FIR FOREST HABITAT, IN OR ON EDGE OF MEADOWS.
Micro: REQUIRE LARGE DIAMETER SNAGS IN A FOREST WITH HIGH CANOPY CLOSURE, WHICH PROVIDE A COOL SUB-CANOPY MICROCLIMATE.

*** SENSITIVE ***

Occurrence No. 11	Map Index:	-----Dates Last Seen-----	Lat/Long: /	Township:
Occ Rank: Unknown		Element: 1977-05-25	UTM:	Range:
Origin: Natural/Native occurrence		Site: 1977-05-25	Precision:	Section: Qtr
Presence: Presumed Extant			Symbol Type:	Meridian:
Trend: Unknown			Radius:	Elevation:

Main Source: CDFG RAPTOR NEST FILES 1985 (PERS)
Quad Summary: CASCADEL POINT (3711924/397B)
County Summary: MADERA
SNA Summary: Pine Grove Mine
Location: *SENSITIVE* Location information suppressed.

-----Comments-----
Distribution: Please contact the California Natural Diversity Database, California Department of Fish and Game, for more information: (916) 324-3812.
Ecological:
Threat:
General:
Owner/Manager:

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report -- Multiple Records per Page
Cascadel Point

Rana boylei
foothill yellow-legged frog
Element Code: AAABH01050

-----List Status-----NDDB Element Ranks-----Other Lists-----
Federal: Species of Concern Global: G3 CDFG Status: SC
State: None State: S2S3

-----Habitat Associations-----

General: PARTLY-SHADED, SHALLOW STREAMS & RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS.
Micro: NEED AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING. NEED AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.

Occurrence No. 25 Map Index:15269 ---Dates Last Seen--- Lat/Long: 37°14'12" / 119°29'50" Township: 08S
Occ Rank: Unknown Element: 1970-XX-XX UTM: Zone-11 N4123845 E278473 Range: 23E
Origin: Natural/Native occurrence Site: 1970-XX-XX Precision: NON-SPECIFIC Section: 18 Qtr NE
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 2640 ft
Main Source: MOYLE, P. 1972 (PERS)
Quad Summary: CASCADEL POINT (3711924/397B)*, NORTH FORK (3711925/398A), SHUTEYE PEAK (3711934/417C), BASS LAKE
(3711935/418C)
County Summary: MADERA
SNA Summary:
Location: S FORK WILLOW CREEK.
-----Comments-----
Distribution: FOUND MOSTLY IN SMALL PERMANENT FOOTHILL STREAMS HIGHER THAN 200 M ELEV, IN AREAS NOT OCCUPIED BY BULLFROGS.
Ecological:
Threat:
General: COLL BTWN JULY & SEPT.
Owner/Manager: PVT

Full Condensed Report - Multiple Records per Page
North Fork

<i>Carpenteria californica</i> tree-anemone Element Code: PDHDR04010	-----List Status----- Federal: None State: Threatened	-----NDDB Element Ranks----- Global: G2 State: S2.2	-----Other Lists----- CNPS List: 1B R-E-D Code: 3-2-3
--	---	---	---

-----Habitat Associations-----
General: CISMONTANE WOODLAND, CHAPARRAL. ENDEMIC TO FRESNO COUNTY, CALIFORNIA.
Micro: AN VERY LOCALIZED ENDEMIC FOUND ON WELL-DRAINED GRANITIC SOILS, MOSTLY ON N-FACING RAVINES AND DRAINAGES. 340-1340M.

Occurrence No. 6 Map Index:15250 ---Dates Last Seen--- Lat/Long: 37°08'07" / 119°30'28" Township: 09S
Occ Rank: Fair Element: 1987-10-03 UTM: Zone-11 N4112624 E277238 Range: 23E
Origin: Natural/Native occurrence Site: 1987-10-03 Precision: SPECIFIC Section: 19 Qtr NW
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 557.0 ac Elevation: 1600 ft
Main Source: HAMON, D. 1972 (MAP)
Quad Summary: NORTH FORK (3711925/398A)
County Summary: FRESNO
SNA Summary:
Location: JUST S OF KERCKHOFF LAKE ON SAN JOAQUIN RIVER, BOTH SIDES POWERHOUSE RD #1.
-----Comments-----
Distribution: NEAR HEAVILY USED FIRE CONTROL AND UTILITY OPERATIONS ROAD.
Ecological:
Threat: GRAZING, HYDROELECTRIC OPERATIONS, AND ORV ACTIVITIES THREATEN.
General: 4-5 PLANTS SEEN IN 1987. NORTHERNMOST OCCURRENCE.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Cascadel Point

<i>Lupinus citrinus</i> var. <i>citrinus</i> orange lupine Element Code: PDFAB2B103	-----List Status----- Federal: Species of Concern State: None	-----NDDB Element Ranks----- Global: G2T2 State: S2.2	-----Other Lists----- CNPS List: 1B R-E-D Code: 2-2-3
---	---	---	---

-----Habitat Associations-----
General: CHAPARRAL, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST. KNOWN ONLY FROM FRESNO AND MADERA COUNTIES.
Micro: ROCKY, DECOMPOSED GRANITIC OUTCROPS, USUALLY OPEN AREAS, ON FLAT TO ROLLING TERRAIN. 600-1350M.

Occurrence No. 21 Map Index:15381 ---Dates Last Seen--- Lat/Long: 37°08'08" / 119°25'10" Township: 09S
Occ Rank: Unknown Element: 1984-05-10 UTM: Zone-11 N4112446 E285087 Range: 23E
Origin: Natural/Native occurrence Site: 1984-05-10 Precision: NON-SPECIFIC Section: 24 Qtr NW
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1/5 mile Elevation: 2900 ft
Main Source: MARTZ, C. 1984 (OBS)
Quad Summary: CASCADEL POINT (3711924/397B)
County Summary: FRESNO
SNA Summary: Big Sandy Bluffs
Location: N SIDE OF JOSE BASIN RD (OLD RR GRADE RD) 5.4 MI NE OF JCT W/ AUBERRY RD. NE OF LERONA.
-----Comments-----
Distribution:
Ecological: ON OUTCROP OF BEDROCK WITH DECOMPOSED GRANITE SANDS. IN FOOTHILL WOODLAND WITH PINUS SABINIANA, ARCTOSTAPHYLOS MARIPOSA, LUPINUS STIVERSII.
Threat:
General: RESIDENCE NEARBY.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Cascadel Point

<i>Carpenteria californica</i> tree-anemone Element Code: PDHDR04010	-----List Status-----	NDDB Element Ranks-----	-----Other Lists-----
	Federal: None	Global: G2	CNPS List: 1B
	State: Threatened	State: S2.2	R-E-D Code: 3-2-3

-----Habitat Associations-----

General: CISMONTANE WOODLAND, CHAPARRAL. ENDEMIC TO FRESNO COUNTY, CALIFORNIA.

Micro: AN VERY LOCALIZED ENDEMIC FOUND ON WELL-DRAINED GRANITIC SOILS, MOSTLY ON N-FACING RAVINES AND DRAINAGES. 340-1340M.

Occurrence No. 1 Map Index:15355 ---Dates Last Seen--- Lat/Long: 37°05'00" / 119°25'38" Township: 10S
 Occ Rank: Good Element: 1987-XX-XX UTM: Zone-11 N4106680 E284240 Range: 23E
 Origin: Natural/Native occurrence Site: 1987-XX-XX Precision: NON-SPECIFIC Section: 10 Qtr E
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 14,600.6 ac Elevation: 3920 ft
 Main Source: HAMON, D. 1972 (MAP)
 Quad Summary: AUBERRY (3711914/397C)*, SHAVER LAKE (3711913/397D), CASCADEL POINT (3711924/397B)
 County Summary: FRESNO
 SNA Summary: Big Sandy Bluffs
 Location: BIG SANDY BLUFFS NORTH TO JUST SOUTH OF SAN JOAQUIN RIVER NEAR ITALIAN BAR.
 -----Comments-----
 Distribution: INCLUDES SEVERAL COLLECTIONS FROM "5 MI ABOVE AUBERRY ON ROAD TO PINERIDGE" AND VICINITY.
 Ecological: DECOMPOSED GRANITE IN CHAPARRAL. ASSOCIATED WITH CEANOTHUS, PEDICULARIS, DELPHINIUM, SAMBUCUS, CERCIS OCCIDENTALIS, ASCLEPIAS, ARCTOSTAPHYLOS MARIPOSA, ERIODICTYON CALIFORNICA, AND UMBELLARIA CALIFORNICA.
 Threat: THREATENED BY A PROPOSED NEW STATE HIGHWAY PROJECT AND SPRAWLING FOOTHILL DEVELOPMENT.
 General: PART OF AREA IS USFS RNA; ANOTHER PART IS USFS CARPENTERIA BOTANICAL AREA. SEVERAL THOUSAND PLANTS SEEN IN 1986 ALONG GRADE UP BIG SANDY BLUFFS (HWY 168). HWY BISECTS OCCURRENCE. PART OF OCCURRENCE BURNED IN 1984.
 Owner/Manager: USFS-SIERRA NF, PVT

Occurrence No. 3 Map Index:15274 ---Dates Last Seen--- Lat/Long: 37°09'42" / 119°29'33" Township: 09S
 Occ Rank: None Element: 1936-XX-XX UTM: Zone-11 N4115519 E278668 Range: 23E
 Origin: Transplant Outside of Site: 1975-02-XX Precision: SPECIFIC Section: 08 Qtr SW
 Native Hab./Range
 Presence: Extirpated Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 230.2 ac Elevation: 2500 ft
 Main Source: HAMON, D. 1972 (MAP)
 Quad Summary: CASCADEL POINT (3711924/397B)
 County Summary: MADERA
 SNA Summary:
 Location: NEAR CORRINE LAKE, APPROX 5.5 AIR MI N OF AUBERRY.
 -----Comments-----
 Distribution:
 Ecological:
 Threat:
 General: SP SEEN IN 1936. SEARCHED FOR IN 1975 BUT NOT LOCATED. PLANTED; NOT A NATURAL POPULATION AND PROBABLY ELIMINATED DUE TO LAND FILL AND ROAD CONSTRUCTION (STEBBINS, 1975).
 Owner/Manager: UNKNOWN

Occurrence No. 12 Map Index:36476 ---Dates Last Seen--- Lat/Long: 37°10'20" / 119°28'48" Township: 09S
 Occ Rank: Good Element: 1997-05-26 UTM: Zone-11 N4116653 E279814 Range: 23E
 Origin: Natural/Native occurrence Site: 1997-05-26 Precision: SPECIFIC Section: 05 Qtr SE
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 80 meters Elevation: 1800 ft
 Main Source: CLINES, J. ET AL 1997 (OBS)
 Quad Summary: CASCADEL POINT (3711924/397B)
 County Summary: MADERA
 SNA Summary:
 Location: 1.15 MI NE OF CORRINE LAKE. ALONG WILLOW CREEK, ABOUT 0.5 MI N OF CONFLUENCE WITH WHISKY CREEK.
 -----Comments-----
 Distribution:
 Ecological: E-FACING SLOPE AT TOP OF SEEPY GRANITE FACE AND UPSLOPE IN SHADE OF Q. CHRYSOLEPIS, AESCULUS CALIFORNICA, & UMBELLULARIA CA. ASSOCIATED WITH TOXICODENDRON DIVERSILOBUM, CERCIS OCCIDENTALIS, ERIODICTYON CA, DRYOPTERIS ARGUTA, AND CAREX.
 Threat: AREA IS GRAZED FROM JANUARY THROUGH JUNE. POSSIBLE THREAT FROM LACK OF FIRE AND SHADING/COMPETITION OF OVERSTORY.
 General: 40 PLANTS IN 1997.
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Cascadel Point

<i>Collomia rawsoniana</i> flaming trumpet Element Code: PDPLM02080	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: Species of Concern	Global: G2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

-----Habitat Associations-----
 General: RIPARIAN FOREST, LOWER MONTANE CONIFEROUS FOREST. ENDEMIC TO MADERA AND MARIPOSA COUNTIES.
 Micro: ON STABILIZED ALLUVIUM IN RIPARIAN ZONES. 775-2060M.

Occurrence No. 14 Map Index:15331 ---Dates Last Seen--- Lat/Long: 37°15'35" / 119°27'37" Township: 08S
 Occ Rank: Unknown Element: 1979-08-29 UTM: Zone-11 N4126312 E281811 Range: 23E
 Origin: Natural/Native occurrence Site: 1979-08-29 Precision: SPECIFIC Section: 04 Qtr SE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 131.3 ac Elevation: 5200 ft
 Main Source: KOBETICH, G. 1985 (PERS)
 Quad Summary: SHUTEYE PEAK (3711934/417C)*, CASCADEL POINT (3711924/397B)
 County Summary: MADERA
 SNA Summary:
 Location: PECKINPAH CREEK & PECKINPAH MEADOW.
 -----Comments-----
 Distribution: AT PECKINPAH MEADOW TRIBUTARY TO PECKINPAH CREEK. RIPARIAN ZONE ALONG CREEK MAPPED FROM USFS DOCUMENT (USF84R02).
 Ecological: ASSOCIATED WITH ALNUS RHOMBIFOLIA AND RHODODENDRON OCCIDENTALE.
 Threat:
 General: MANY HUNDREDS OF PLANTS SEEN IN 1979.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 15 Map Index:15358 ---Dates Last Seen--- Lat/Long: 37°15'36" / 119°26'37" Township: 08S
 Occ Rank: Good Element: 1991-06-10 UTM: Zone-11 N4126309 E283308 Range: 23E
 Origin: Natural/Native occurrence Site: 1991-06-10 Precision: SPECIFIC Section: XX Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 748.7 ac Elevation: 5400 ft
 Main Source: BRANDT, M. 1979 (OBS)
 Quad Summary: SHUTEYE PEAK (3711934/417C)*, CASCADEL POINT (3711924/397B)
 County Summary: MADERA
 SNA Summary:
 Location: WHISKY CREEK, OWL CREEK, ROUSH CREEK, & GERTRUDE CREEK, AND TRIBUTARIES.
 -----Comments-----
 Distribution:
 Ecological: SHADED TO OPEN RIPARIAN AREAS. ASSOCIATED WITH ALNUS RHOMBIFOLIA, RHODODENDRON OCCIDENTALE, RUBUS PARVIFLORA, PELTAPHYLLUM PELTATUM, AQUILEGIA FORMOSA, CAREX SPP., CALOCDRUS DECURRENS, CORNUS, AND RIBES.
 Threat: HYDRO PROJECTS PLANNED. LOGGING AND GRAZING ALSO THREATEN.
 General: MANY THOUSANDS OF PLANTS IN PATCHES FROM DENSE TO DIFFUSE. THIS IS THE BEST COLLOMIA STREAM.
 Owner/Manager: USFS-SIERRA NF, PVT

Occurrence No. 16 Map Index:15385 ---Dates Last Seen--- Lat/Long: 37°12'07" / 119°24'53" Township: 08S
 Occ Rank: Unknown Element: 1979-08-02 UTM: Zone-11 N4119802 E285694 Range: 23E
 Origin: Natural/Native occurrence Site: 1979-08-02 Precision: NON-SPECIFIC Section: 25 Qtr SW
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1/5 mile Elevation: 4000 ft
 Main Source: WILLING, B. 1979 (OBS)
 Quad Summary: CASCADEL POINT (3711924/397B)
 County Summary: MADERA
 SNA Summary:
 Location: SAGINAW CREEK, APPROX 0.5 MI WEST OF MAMMOTH RD XING.
 -----Comments-----
 Distribution:
 Ecological: SHADED RIPARIAN AREA; SANDY WET SOIL. ASSOCIATED WITH ALNUS RHOMBIFOLIA, MIMULUS SPP., AND AQUILEGIA FORMOSA.
 Threat:
 General: SEVERAL HUNDRED PLANTS IN 1979.
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Musick Mtn.

<i>Lupinus citrinus</i> var. <i>citrinus</i> orange lupine Element Code: PDFAB2B103	-----List Status----- Federal: Species of Concern State: None	NDDB Element Ranks Global: G2T2 State: S2.2	-----Other Lists----- CNPS List: 1B R-E-D Code: 2-2-3
---	---	---	---

-----Habitat Associations-----
General: CHAPARRAL, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST. KNOWN ONLY FROM FRESNO AND MADERA COUNTIES.
Micro: ROCKY, DECOMPOSED GRANITIC OUTCROPS, USUALLY OPEN AREAS, ON FLAT TO ROLLING TERRAIN. 600-1350M.

Occurrence No. 25 Map Index:15473 ---Dates Last Seen--- Lat/Long: 37°08'58" / 119°21'45" Township: 09S
Occ Rank: Unknown Element: 1980-06-01 UTM: Zone-11 N4113885 E290183 Range: 24E
Origin: Natural/Native occurrence Site: 1980-06-01 Precision: SPECIFIC Section: 16 Qtr NW
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Decreasing Area: 7.2 ac Elevation: 4000 ft
Main Source: HAMON, D. 1979 (OBS)
Quad Summary: MUSICK MTN. (3711923/397A)
County Summary: FRESNO
SNA Summary:
Location: E SIDE OF OLD RR GRADE RD ABOUT 0.25 MI N OF CONVERGING POWER LINES, W OF FLUME PEAK.
-----Comments-----
Distribution:
Ecological: ON GRANITE GRAVEL OF ROCKY OUTCROP AMONG OAK TREES AND SHRUBS. ASSOCIATES INCLUDE CAMISSONIA, MIMULUS,
ARCTOSTAPHYLOS, QUERCUS, CEANOTHUS, PINUS.
Threat: ROAD WIDENING THREAT, RD 8S08 HAS DISTURBED SOME HABITAT.
General: ABOUT 100 PLANTS SEEN IN 1980.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Musick Mtn.

<i>Clemmys marmorata</i> western pond turtle Element Code: ARAAD02030	—List Status—	—NDDB Element Ranks—	—Other Lists—
	Federal: None	Global: G3G4	CDFG Status: SC
	State: None	State: S3	

Habitat Associations

General: A THOROUGHLY AQUATIC TURTLE OF PONDS, MARSHES, RIVERS, STREAMS & IRRIGATION DITCHES WITH AQUATIC VEGETATION.
Micro: NEED BASKING SITES AND SUITABLE (SANDY BANKS OR GRASSY OPEN FIELDS) UPLAND HABITAT FOR EGG-LAYING.

Occurrence No. 50 Map Index: 32806 —Dates Last Seen— Lat/Long: 37°06'59" / 119°22'42" Township: 09S
 Occ Rank: Excellent Element: 1993-07-21 UTM: Zone-11 N4110230 E288698 Range: 24E
 Origin: Natural/Native occurrence Site: 1993-07-21 Precision: SPECIFIC Section: XX Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 338.0 ac Elevation: 2000 ft
 Main Source: REPLOGLE, R. 1993 (OBS)
 Quad Summary: AUBERRY (3711914/397C)*, SHAVER LAKE (3711913/397D), MUSICK MTN. (3711923/397A), CASCADEL POINT (3711924/397B)
 County Summary: FRESNO
 SNA Summary:
 Location: JOSE CREEK, FROM SCE POWERHOUSE #3 TO THE SOUTH FOR APPROX. 6.0 MILES, JOSE BASIN.
 —Comments—
 Distribution: TURTLES FOUND IN POOLS THROUGHOUT ENTIRE 6 MILES OF STREAM.
 Ecological: STREAM WITH POOLS, CHANNEL TYPE RANGED FROM STEEP BEDROCK TO FLAT SILTY.
 Threat: BULLFROGS.
 General: 7/21/93: 38 ADULTS, 10 JUVENILES, 6 HATCHLINGS OBSERVED BY R. REPLOGLE. 7/15/88: 8 CAPTURED & RELEASED BY R.W. HANSEN & D.C. HOLLAND AT SCE POWERHOUSE #3. UNKNOWN NUMBER OBSERVED BY R.W. HANSEN & D.C. HOLLAND AT JOSE BASIN RD. DATE UNKNOWN.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 100 Map Index: 32900 —Dates Last Seen— Lat/Long: 37°14'07" / 119°21'14" Township: 08S
 Occ Rank: Good Element: 1993-07-01 UTM: Zone-11 N4123368 E291178 Range: 24E
 Origin: Natural/Native occurrence Site: 1993-07-01 Precision: SPECIFIC Section: XX Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 41.3 ac Elevation: 4100 ft
 Main Source: ASHBY, C. 1993 (OBS)
 Quad Summary: MUSICK MTN. (3711923/397A)
 County Summary: MADERA
 SNA Summary:
 Location: ROSS CREEK BELOW CONFLUENCE WITH CLEARWATER CREEK AND UNNAMED TRIBUTARY BELOW CLEARWATER FOREST SERVICE STATION.
 —Comments—
 Distribution:
 Ecological: MODERATE SIZED STREAM (3M WIDE, 1M MAX DEPTH), WELL VEGETATED BANKS WITH ALDER AND ELDERBERRY. STREAM GRADIENT 4-10%, SMALL BOULDERS.
 Threat: POSSIBLE THREAT: CONTROLLED BURN PLANNED FOR 1993.
 General: 4 ADULTS & 2 JUVENILES OBSERVED.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 190 Map Index: 47031 —Dates Last Seen— Lat/Long: 37°08'37" / 119°18'24" Township: 09S
 Occ Rank: Unknown Element: 2001-07-25 UTM: Zone-11 N4113111 E295107 Range: 24E
 Origin: Natural/Native occurrence Site: 2001-07-25 Precision: NON-SPECIFIC Section: 13 Qtr SW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 33.3 ac Elevation: 5200 ft
 Main Source: TIGA, L. 2001 (OBS)
 Quad Summary: MUSICK MTN. (3711923/397A)
 County Summary: FRESNO
 SNA Summary:
 Location: 0.25 MILE NORTH OF SHAVER LAKE POINT, ALONG SR 168, NEAR STEVENSON CREEK.
 —Comments—
 Distribution: WEST AND EAST OF SR 168.
 Ecological: HABITAT CONSISTS OF CREEK WITH BEDROCK AND PEBBLE/ORGANIC SUBSTRATE.
 Threat:
 General: 31 JUL 2000: 1 ADULT OBSERVED. 25 JUL 2001: 1 ADULT OBSERVED.
 Owner/Manager: USFS, SCE

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Musick Mtn.

Vulpes vulpes necator
Sierra Nevada red fox
Element Code: AMAJA03012

-----List Status-----NDDB Element Ranks-----Other Lists-----
Federal: Species of Concern Global: G5T3 CDFG Status:
State: Threatened State: S1

-----Habitat Associations-----

General: FOUND FROM THE CASCADES DOWN TO THE SIERRA NEVADA. FOUND IN A VARIETY OF HABITATS FROM WET MEADOWS TO FORESTED AREAS.
Micro: USE DENSE VEGETATION & ROCKY AREAS FOR COVER & DEN SITES. PREFER FORESTS INTERSPERSED W/ MEADOWS OR ALPINE FELL-FIELDS.

Occurrence No. 3 Map Index:15539 ---Dates Last Seen--- Lat/Long: 37°08'01" / 119°18'58" Township: 09S
Occ Rank: Unknown Element: 1965-04-02 UTM: Zone-11 N4112002 E294262 Range: 24E
Origin: Natural/Native occurrence Site: 1965-04-02 Precision: NON-SPECIFIC Section: 23 Qtr E
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 5400 ft
Main Source: SCHEMPF, P. & M. WHITE 1977 (LIT)
Quad Summary: MUSICK MTN. (3711923/397A)*, SHAVER LAKE (3711913/397D)
County Summary: FRESNO
SNA Summary:
Location: SHAVER LAKE HEAR ROCK HAVEN (N OF SHAVER LAKE HEIGHTS ON RT 168)
-----Comments-----
Distribution:
Ecological: PINE-DOUGLAS FIR-ABIES FOREST.
Threat:
General:
Owner/Manager: UNKNOWN

Full Condensed Report - Multiple Records per Page
Musick Mtn.

<i>Strix nebulosa</i> great gray owl Element Code: ABNSB12040	-----List Status----- Federal: None State: Endangered	-----NDDB Element Ranks----- Global: G5 State: S1	-----Other Lists----- CDFG Status:
---	---	---	---------------------------------------

-----Habitat Associations-----
General: (NESTING) RESIDENT OF MIXED CONIFER OR RED FIR FOREST HABITAT, IN OR ON EDGE OF MEADOWS.
Micro: REQUIRE LARGE DIAMETER SNAGS IN A FOREST WITH HIGH CANOPY CLOSURE, WHICH PROVIDE A COOL SUB-CANOPY MICROCLIMATE.

Occurrence No. 20 Map Index:30013 ---Dates Last Seen--- Lat/Long: 37°14'19" / 119°15'33" Township: 08S
Occ Rank: Unknown Element: 1979-08-14 UTM: Zone-11 N4123536 E299597 Range: 25E
Origin: Natural/Native occurrence Site: 1979-08-14 Precision: NON-SPECIFIC Section: 17 Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 7500 ft
Main Source: WINTER, J. 1980 (LIT)
Quad Summary: MUSICK MTN. (3711923/397A)*, HUNTINGTON LAKE (3711922/396B), KAISER PEAK (3711932/416C), MAMMOTH POOL DAM (3711933/417D)
County Summary: FRESNO
SNA Summary:
Location: NEAR BLACK POINT, WEST OF HUNTINGTON LAKE, SIERRA NATIONAL FOREST.
-----Comments-----
Distribution:
Ecological: FOREST HABITAT DOMINATED BY RED FIR AND LODGEPOLE PINE.
Threat:
General: THREE OWLS HEARD BUT NOT SEEN JUNE 18, AND JULY 7, 12, 16, AND 23, 1979 BY M. KUNDE; ONE MALE HEARD BUT NOT SEEN 8/14/79 BY J. WINTER.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Musick Mtn.

Accipiter gentilis northern goshawk Element Code: ABNKC12060	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: Species of Concern	Global: G5	CDFG Status: SC
	State: None	State: S3	

-----Habitat Associations-----
General: (NESTING) WITHIN AND IN VICINITY OF CONIFEROUS FOREST. USES OLD NESTS, AND MAINTAINS ALTERNATE SITES.
Micro: USUALLY NESTS ON NORTH SLOPES, NEAR WATER. RED FIR, LODGEPOLE PINE, JEFFREY PINE, AND ASPENS ARE TYPICAL NEST TREES.

Occurrence No. 141 Map Index:15620 ---Dates Last Seen--- Lat/Long: 37°14'43" / 119°14'48" Township: 08S
Occ Rank: Unknown Element: 1981-07-03 UTM: Zone-11 N4124243 E300725 Range: 25E
Origin: Natural/Native occurrence Site: 1981-07-03 Precision: NON-SPECIFIC Section: 09 Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 7280 ft
Main Source: DEPT. OF FISH & GAME 1984 (PERS)
Quad Summary: HUNTINGTON LAKE (3711922/396B)*, MUSICK MTN. (3711923/397A), KAISER PEAK (3711932/416C), MAMMOTH POOL DAM (3711933/417D)
County Summary: FRESNO
SNA Summary:
Location: COARSEGRASS MEADOW.
-----Comments-----
Distribution:
Ecological:
Threat:
General: EYRIE NO. FR002. ACTIVE NEST WITH TWO JUVENILES IN A RED FIR IN 1981. (NEUSCHATZ)
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Cascadel Point

Carex praticola meadow sedge Element Code: PMCYP03B20	-----List Status-----	NDDB Element Ranks-----	-----Other Lists-----
	Federal: None	Global: G5	CNPS List: 2
	State: None	State: S2S3	R-E-D Code: 2-2-1

-----Habitat Associations-----
General: MEADOWS.
Micro: MOIST TO WET MEADOWS. 0-3200M.

Occurrence No. 1 Map Index:36370 ---Dates Last Seen--- Lat/Long: 37°14'10" / 119°28'43" Township: 08S
Occ Rank: Unknown Element: 1984-06-30 UTM: Zone-11 N4123752 E280119 Range: 23E
Origin: Natural/Native occurrence Site: 1984-06-30 Precision: NON-SPECIFIC Section: 17 Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 3400 ft
Main Source: TAYLOR, D. #8523 UC (HERB)
Quad Summary: CASCADEL POINT (3711924/397B)*, SHUTEYE PEAK (3711934/417C)
County Summary: MADERA
SNA Summary:
Location: PITCHER CREEK, NORTHWEST OF CASCADEL POINT.
-----Comments-----
Distribution: SITE NAME "PITCHER CREEK" IS NOT SHOW ON TOPO. USGS GAZATEER DESCRIBES PITCHER CREEK IN MADERA COUNTY TO BE T08S R23E SECTION 17.
Ecological:
Threat:
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1984 COLLECTION BY TAYLOR.
Owner/Manager: UNKNOWN

Full Condensed Report - Multiple Records per Page
Cascadel Point

<i>Collomia rawsoniana</i> (cont.) flaming trumpet Element Code: PDPLM02080	-----List Status----- Federal: Species of Concern State: None	-----NDDB Element Ranks----- Global: G2 State: S2.2	-----Other Lists----- CNPS List: 1B R-E-D Code: 2-2-3
---	---	---	---

Occurrence No. 20 Map Index:30821 ---Dates Last Seen--- Lat/Long: 37°14'16" / 119°25'22" Township: 08S
Occ Rank: Good Element: 1991-06-24 UTM: Zone-11 N4123803 E285077 Range: 23E
Origin: Natural/Native occurrence Site: 1991-06-24 Precision: SPECIFIC Section: 14 Qtr NE
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 80.4 ac Elevation: 5800 ft

Main Source: LISKEY, E. 1991 (OBS)

Quad Summary: CASCADEL POINT (3711924/397B)

County Summary: MADERA

SNA Summary:

Location: N AND E OF MORMON HILL, ALONG UNNAMED TRIBUTARIES OF WHISKY CREEK.

Comments

Distribution: ALSO IN NW 1/4 OF SECTION 13. PLANTS FOUND NEAR RD 7S07, EXTENDING N ALONG CREEK FOR 0.3 MI AND E FOR 0.75 MI (TO PROHIBITION MEADOW).

Ecological: ASSOC WITH RHODODENDRON OCCIDENTALE AND ALNUS TENUIFOLIA. COLLOMIA FOUND GROWING UP INTO FOREST AT LEAST 40 M FROM STREAM. UNIMPRESSIVE HABITAT QUALITY; NO EXTENSIVE RIPARIAN VEG.; DRAINAGE IS IN POOR SHAPE BUT HAVE MANY COLLOMIA HERE.

Threat: LOGGING AND BANK EROSION ARE POTENTIAL THREATS.

General: 14,000 PLANTS IN 1990, AT LEAST 10,000 IN 1991.

Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Cascadel Point

<i>Collomia rawsoniana</i> (cont.) flaming trumpet Element Code: PDPLM02080	-----List Status-----	NDDB Element Ranks	-----Other Lists-----
	Federal: Species of Concern	Global: G2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

Occurrence No. 17 Map Index:15311 ---Dates Last Seen--- Lat/Long: 37°12'00" / 119°28'17" Township: 08S
 Occ Rank: Unknown Element: 1982-XX-XX UTM: Zone-11 N4119716 E280658 Range: 23E
 Origin: Natural/Native occurrence Site: 1982-XX-XX Precision: NON-SPECIFIC Section: 28 Qtr SW
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1/5 mile Elevation: 2560 ft
 Main Source: STEBBINS, J. 1982 (OBS)
 Quad Summary: CASCADEL POINT (3711924/397B)
 County Summary: MADERA
 SNA Summary:
 Location: ALONG WHISKY CREEK APPROX 0.25 AIRMI SOUTH OF MAMMOTH RD KING.
 -----Comments-----
 Distribution:
 Ecological: IN RIPARIAN AREA.
 Threat: SMALL HYDRO PROJECT PLANNED.
 General: LESS THAN 50 PLANTS IN 1982.
 Owner/Manager: PVT

Occurrence No. 18 Map Index:15481 ---Dates Last Seen--- Lat/Long: 37°14'25" / 119°21'42" Township: 08S
 Occ Rank: Good Element: 1991-06-04 UTM: Zone-11 N4123948 E290517 Range: 24E
 Origin: Natural/Native occurrence Site: 1991-06-04 Precision: SPECIFIC Section: 16 Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 423.7 ac Elevation: 4200 ft
 Main Source: BRANDT, M. 1979 (OBS)
 Quad Summary: MUSICK MTN. (3711923/397A)*, CASCADEL POINT (3711924/397B), MAMMOTH POOL DAM (3711933/417D), SHUTEYE PEAK (3711934/417C)
 County Summary: MADERA
 SNA Summary:
 Location: ROSS CREEK, CLEARWATER CREEK, & UNNAMED TRIBUTARY NEAR HOGUE RANCH.
 -----Comments-----
 Distribution: ALSO IN SECTIONS 7, 8, 17, & 18.
 Ecological: SHADED RIPARIAN AREAS. ASSOCIATED WITH ALNUS RHOMBIFOLIA, MIMULUS CARDINALIS, RHODODENDRON OCCIDENTALE, AQUILEGIA FORMISA, MIMULUS, RUBUS AND CORNUS.
 Threat: PROPOSED RV CAMP AT HOGUE RANCH.
 General: MANY HUNDREDS OF PLANTS IN 1979, 500 SEEN IN 1991 ALONG TRIB. TO ROSS CREEK.
 Owner/Manager: USFS-SIERRA NF, PVT

Occurrence No. 19 Map Index:15370 ---Dates Last Seen--- Lat/Long: 37°14'49" / 119°25'35" Township: 08S
 Occ Rank: Excellent Element: 1991-06-10 UTM: Zone-11 N4124828 E284774 Range: 23E
 Origin: Natural/Native occurrence Site: 1991-06-10 Precision: NON-SPECIFIC Section: 11 Qtr SE
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 67.5 ac Elevation: 5900 ft
 Main Source: LISKEY, E. 1991 (OBS)
 Quad Summary: CASCADEL POINT (3711924/397B)*, SHUTEYE PEAK (3711934/417C)
 County Summary: MADERA
 SNA Summary:
 Location: VICINITY OF BENEDICT MEADOW (AKA ELLIS MDW); FOUND UPSTREAM & DOWNSTREAM OF WHERE RD 7S76 CROSSES STREAM & S OF MEADOW.
 -----Comments-----
 Distribution: PLANTS S OF MEADOW ON BOTH SIDES OF ROAD 7S07.
 Ecological: IN SHADED UNDERSTORY OF MIXED CONIFER FOREST. ASSOCIATED WITH RHODODENDRON OCCIDENTALE, CORNUS, RIBES, AND ALNUS.
 Threat: LOGGING AND CATTLE GRAZING THREATEN.
 General: 100 VIGOROUS PLANTS IN 1980, AT LEAST 5000 IN 1991. BETTER MAP DETAIL NEEDED.
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Musick Mtn.

<i>Collomia rawsoniana</i> flaming trumpet Element Code: PDPLM02080	-----List Status----- Federal: Species of Concern State: None	-----NDDB Element Ranks----- Global: G2 State: S2.2	-----Other Lists----- CNPS List: 1B R-E-D Code: 2-2-3
---	---	---	---

-----Habitat Associations-----
General: RIPARIAN FOREST, LOWER MONTANE CONIFEROUS FOREST. ENDEMIC TO MADERA AND MARIPOSA COUNTIES.
Micro: ON STABILIZED ALLUVIUM IN RIPARIAN ZONES. 775-2060M.

Occurrence No. 18 Map Index:15481 ---Dates Last Seen--- Lat/Long: 37°14'25" / 119°21'42" Township: 08S
Occ Rank: Good Element: 1991-06-04 UTM: Zone-11 N4123948 E290517 Range: 24E
Origin: Natural/Native occurrence Site: 1991-06-04 Precision: SPECIFIC Section: 16 Qtr XX
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 423.7 ac Elevation: 4200 ft
Main Source: BRANDT, M. 1979 (OBS)
Quad Summary: MUSICK MTN. (3711923/397A)*, CASCADEL POINT (3711924/397B), MAMMOTH POOL DAM (3711933/417D), SHUTEYE PEAK (3711934/417C)
County Summary: MADERA
SNA Summary:
Location: ROSS CREEK, CLEARWATER CREEK, & UNNAMED TRIBUTARY NEAR HOGUE RANCH.
-----Comments-----
Distribution: ALSO IN SECTIONS 7, 8, 17, & 18.
Ecological: SHADED RIPARIAN AREAS. ASSOCIATED WITH ALNUS RHOMBIFOLIA, MIMULUS CARDINALIS, RHODODENDRON OCCIDENTALE, AQUILEGIA FORMISA, MIMULUS, RUBUS AND CORNUS.
Threat: PROPOSED RV CAMP AT HOGUE RANCH.
General: MANY HUNDREDS OF PLANTS IN 1979, 500 SEEN IN 1991 ALONG TRIB. TO ROSS CREEK.
Owner/Manager: USFS-SIERRA NF, PVT

Full Condensed Report - Multiple Records per Page
Musick Mtn.

<i>Linanthus serrulatus</i> Madera linanthus Element Code: PDPLM09130	-----List Status----- Federal: Species of Concern State: None	-----NDDB Element Ranks----- Global: G1? State: S1?	-----Other Lists----- CNPS List: 1B R-E-D Code: 2-2-3
---	---	---	---

-----Habitat Associations-----
General: CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.
Micro: DRY SLOPES; OFTEN ON DECOMPOSED GRANITE IN WOODLAND. 80-1575M.

Occurrence No. 6 Map Index:30836 ---Dates Last Seen--- Lat/Long: 37°12'17" / 119°14'23" Township: 08S
Occ Rank: Unknown Element: 1923-05-XX UTM: Zone-11 N4119721 E301228 Range: 25E
Origin: Natural/Native occurrence Site: 1923-05-XX Precision: NON-SPECIFIC Section: 08 Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 5200 ft
Main Source: WALKER SN JEPS #58552 (HERB)
Quad Summary: HUNTINGTON LAKE (3711922/396B)*, MUSICK MTN. (3711923/397A)
County Summary: FRESNO
SNA Summary:
Location: BIG CREEK.
-----Comments-----
Distribution: MAPPED AT CNDDDB IN VICINITY OF THE COMMUNITY OF BIG CREEK.
Ecological:
Threat:
General: ONLY SOURCE OF INFORMATION IS 1923 COLLECTION BY WALKER (SN JEPS #58552).
Owner/Manager: UNKNOWN

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report -- Multiple Records per Page
Huntington Lake

Linanthus serrulatus
Madera linanthus
Element Code: PDPLM09130

List Status	NDDB Element Ranks	Other Lists
Federal: Species of Concern State: None	Global: G1? State: S1?	CNPS List: 1B R-E-D Code: 2-2-3

Habitat Associations

General: CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.
Micro: DRY SLOPES; OFTEN ON DECOMPOSED GRANITE IN WOODLAND. 80-1575M.

Occurrence No. 6	Map Index: 30836	—Dates Last Seen—	Lat/Long: 37°12'17" / 119°14'23"	Township: 08S
Occ Rank: Unknown		Element: 1923-05-XX	UTM: Zone-11 N4119721 E301228	Range: 25E
Origin: Natural/Native occurrence		Site: 1923-05-XX	Precision: NON-SPECIFIC	Section: 08 Qtr XX
Presence: Presumed Extant			Symbol Type: POINT	Meridian: M
Trend: Unknown			Radius: 1 mile	Elevation: 5200 ft
Main Source: WALKER SN JEPS #58552 (HERB)				
Quad Summary: HUNTINGTON LAKE (3711922/396B)*, MUSICK MTN. (3711923/397A)				
County Summary: FRESNO				
SNA Summary:				
Location: BIG CREEK.				
Comments:				
Distribution: MAPPED AT CNDDB IN VICINITY OF THE COMMUNITY OF BIG CREEK.				
Ecological:				
Threat:				
General: ONLY SOURCE OF INFORMATION IS 1923 COLLECTION BY WALKER (SN JEPS #58552).				
Owner/Manager: UNKNOWN				

Full Condensed Report - Multiple Records per Page
Huntington Lake

<i>Epilobium howellii</i> subalpine fireweed Element Code: PDONA06180	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: None	Global: G1	CNPS List: 1B
	State: None	State: S1.3	R-E-D Code: 3-1-3

-----Habitat Associations-----
General: MEADOWS, SUBALPINE CONIFEROUS FOREST.
Micro: WET MEADOWS, MOSSY SEEPS. 1970-2700M.

Occurrence No. 3 Map Index:31123 ---Dates Last Seen--- Lat/Long: 37°14'55" / 119°11'52" Township: 08S
Occ Rank: Unknown Element: XXXX-XX-XX UTM: Zone-11 N4124516 E305073 Range: 25E
Origin: Natural/Native occurrence Site: XXXX-XX-XX Precision: NON-SPECIFIC Section: 12 Qtr NW
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 7080 ft
Main Source: HOCH, P. 1992 (LIT)
Quad Summary: HUNTINGTON LAKE (3711922/396B)*, KAISER PEAK (3711932/416C)
County Summary: FRESNO
SNA Summary:
Location: 3 MILES EAST OF HUNTINGTON LAKE.
-----Comments-----
Distribution: MAPPED AT CNDDB 3 ROAD MILES EAST OF THE COMMUNITY OF HUNTINGTON LAKE ON THE NORTH SHORE OF THE LAKE.
Ecological:
Threat:
General: ONLY SOURCE OF INFORMATION IS UNDATED COLLECTION BY HOCH (#486 MO, RSA).
Owner/Manager: UNKNOWN

Full Condensed Report - Multiple Records per Page
Huntington Lake

<i>Martes pennanti pacifica</i> Pacific fisher Element Code: AMAJF01021	-----List Status-----	NDDB Element Ranks	-----Other Lists-----
	Federal: Species of Concern	Global: G5T3T4	CDFG Status: SC
	State: None	State: S2S3	

-----Habitat Associations-----
 General: INTERMEDIATE TO LARGE-TREE STAGES OF CONIFEROUS FORESTS & DECIDUOUS-RIPARIAN AREAS W/ HIGH PERCENT CANOPY CLOSURE.
 Micro: USE CAVITIES, SNAGS, LOGS & ROCKY AREAS FOR COVER & DENNING. NEED LARGE AREAS OF MATURE, DENSE FOREST.

Occurrence No. 38 Map Index:15771 ---Dates Last Seen--- Lat/Long: 37°11'35" / 119°06'41" Township: 08S
 Occ Rank: Unknown Element: 1913-12-XX UTM: Zone-11 N4118173 E312596 Range: 26E
 Origin: Natural/Native occurrence Site: 1913-XX-XX Precision: NON-SPECIFIC Section: 34 Qtr XX
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1 mile Elevation: 9200 ft
 Main Source: DEPT. OF FISH & GAME 1987 (OBS)
 Quad Summary: DOGTOOTH PEAK (3711921/396A)*, HUNTINGTON LAKE (3711922/396B)
 County Summary: FRESNO
 SNA Summary:
 Location: NEAR RED TOP CAMP, APPROX 7 MI NNE OF DINKEY CREEK, SIERRA NATIONAL FOREST.
 -----Comments-----
 Distribution:
 Ecological:
 Threat:
 General: ONE OBS DURING NOV; ONE TRAPPED DURING DEC.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 379 Map Index:33787 ---Dates Last Seen--- Lat/Long: 37°13'18" / 119°10'25" Township: 08S
 Occ Rank: Fair Element: 1990-08-16 UTM: Zone-11 N4121499 E307142 Range: 26E
 Origin: Natural/Native occurrence Site: 1990-08-16 Precision: NON-SPECIFIC Section: 19 Qtr SW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 115.2 ac Elevation: 7780 ft
 Main Source: REEVES, K. 1989 (OBS)
 Quad Summary: HUNTINGTON LAKE (3711922/396B)
 County Summary: FRESNO
 SNA Summary:
 Location: JUST SOUTH OF COON CR, 1.7 KM WEST OF CHINESE PEAK; 1.7 KM SOUTH OF CAMP OLIJATO, HUNTINGTON LAKE; FRESNO CO.
 -----Comments-----
 Distribution: 8/16/1990 OBSERVATION RECORDED AS SENW OF SEC 19 T8S, R26E; BADGER TIMBER COMPART. SIERRA NATIONAL FOREST
 Ecological: RED FIR FOREST WITH MEDIUM/LARGE TREES HAVING MODERATE (40-59%) CANOPY COVER (RFR5M). RFR5D HABITAT ADJACENT TO ANIMAL TRACKS.
 Threat: SOME SELECTIVE LOGGING.
 General: 11/01/89 - INDIVIDUAL ID'D BY TRACKS AND YELLOW STAIN IN SNOW AT A TRACK STATION; MARTEN TRACKS ALSO SEEN OVER FISHER TRACKS; NOTES WITH FIELD SURVEY FORM HAVE TRACK MEASUREMENTS OF BOTH MUSTELIDS. 8/16/1990 OBSERVATION BY C. KNIGHT
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Huntington Lake

Martes americana

American (=pine) marten
Element Code: AMAJF01010

List Status	NDDB Element Ranks	Other Lists
Federal: Species of Concern	Global: G5	CDFG Status:
State: None	State: S3S4	

Habitat Associations

General: MIXED EVERGREEN FORESTS WITH MORE THAN 40% CROWN CLOSURE ALONG NORTH COAST & SIERRA NEVADA, KLAMATH & CASCADE MTNS.
Micro: NEEDS VARIETY OF DIFFERENT-AGED STANDS, PARTICULARLY OLD-GROWTH CONIFERS & SNAGS WHICH PROVIDE CAVITIES FOR DENS/NESTS.

Occurrence No. 16	Map Index:30439	—Dates Last Seen—	Lat/Long: 37°13'14" / 119°10'24"	Township: 08S
Occ Rank: Fair		Element: 1989-11-02	UTM: Zone-11 N4121337 E307167	Range: 26E
Origin: Natural/Native occurrence		Site: 1989-11-02	Precision: NON-SPECIFIC	Section: 19 Qtr SW
Presence: Presumed Extant			Symbol Type: POINT	Meridian: M
Trend: Unknown			Radius: 1/5 mile	Elevation: 7780 ft
Main Source: REEVES, K. 1989 (OBS)				
Quad Summary: HUNTINGTON LAKE (3711922/396B)				
County Summary: FRESNO				
SNA Summary:				
Location: JUST SOUTH OF COON CR, 1 MI WEST OF CHINESE PEAK & 1 MI SOUTH OF CAMP OLIJATO ON THE SOUTH SIDE OF HUNTINGTON LAKE.				

Comments

Distribution:

Ecological: RED FIR HABITAT WITH MEDIUM/LARGE TREES HAVING MODERATE (40-59%) CANOPY COVER (RFR5M). RFR5D HABITAT ADJACENT TO TRACKS.

Threat: SOME SELECTIVE LOGGING.

General: 1 INDIVIDUAL IDENTIFIED BY TRACKS AT A TRACK STATION. FISHER TRACKS ALSO SEEN HERE.

Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Huntington Lake

<i>Oncorhynchus clarki henshawi</i> Lahontan cutthroat trout Element Code: AFCHA02081	-----List Status----- Federal: Threatened State: None	-----NDDB Element Ranks----- Global: G4T3 State: S2	-----Other Lists----- CDFG Status:
---	---	---	---------------------------------------

-----Habitat Associations-----

General: HISTORICALLY IN ALL ACCESSIBLE COLD WATERS OF THE LAHONTAN BASIN IN A WIDE VARIETY OF WATER TEMPS & CONDITIONS.
Micro: CANNOT TOLERATE PRESENCE OF OTHER SALMONIDS. REQUIRES GRAVEL RIFFLES IN STREAMS FOR SPAWNING.

Occurrence No. 2 Map Index:15730 ---Dates Last Seen--- Lat/Long: 37°08'35" / 119°08'29" Township: 09S
Occ Rank: Unknown Element: 1990-XX-XX UTM: Zone-11 N4112688 E309819 Range: 26E
Origin: Natural/Native occurrence Site: 1990-XX-XX Precision: SPECIFIC Section: 16 Qtr S
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 105.0 ac Elevation: 8000 ft
Main Source: GERSTUNG, E. 1985 (LIT)
Quad Summary: HUNTINGTON LAKE (3711922/396B)
County Summary: FRESNO
SNA Summary:
Location: A SMALL TRIBUTARY CREEK NORTH WEST OF COW CREEK ABOUT 0.5 MILES SOUTH EAST OF FOSTER RIDGE. (N FORK COW CRK)

-----Comments-----

Distribution: THIS REACH OF STREAM IS ABOUT 1.5 MILES IN LENGTH. THE PRIME SPAWNING AREA COVERS A 0.5 MILE STRETCH.
Ecological: POP OF <200 FISH. FLOWS VERY LOW IN LATE SUMMER. IN 1970'S LOGGING & GRAZING SEVERELY DAMAGED STREAM BANKS & RESULTED IN SILTATION. STREAM HAS RECOVERED DUE TO SEASONAL FENCING FOR CATTLE, SILT CATCHMENT BASIN & BRIDGE. RIPARIAN IMPROVING.
Threat:
General: ADULTS ARE 6-7 INCHES IN LENGTH. FOREST PLAN SAYS NO TIMBER HARVEST UNTIL HABITAT HAS RECOVERED. POPULATION IS HEALTHY WITH ALL AGE CLASSES REPRESENTED.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Huntington Lake

<i>Strix nebulosa</i> great gray owl Element Code: ABNSB12040	-----List Status----- Federal: None State: Endangered	-----NDDB Element Ranks----- Global: G5 State: S1	-----Other Lists----- CDFG Status:
---	---	---	---------------------------------------

-----Habitat Associations-----

General: (NESTING) RESIDENT OF MIXED CONIFER OR RED FIR FOREST HABITAT, IN OR ON EDGE OF MEADOWS.

Micro: REQUIRE LARGE DIAMETER SNAGS IN A FOREST WITH HIGH CANOPY CLOSURE, WHICH PROVIDE A COOL SUB-CANOPY MICROCLIMATE.

Occurrence No. 20 Map Index:30013 ---Dates Last Seen--- Lat/Long: 37°14'19" / 119°15'33" Township: 08S
Occ Rank: Unknown Element: 1979-08-14 UTM: Zone-11 N4123536 E299597 Range: 25E
Origin: Natural/Native occurrence Site: 1979-08-14 Precision: NON-SPECIFIC Section: 17 Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 7500 ft
Main Source: WINTER, J. 1980 (LIT)
Quad Summary: MUSICK MTN. (3711923/397A)*, HUNTINGTON LAKE (3711922/396B), KAISER PEAK (3711932/416C), MAMMOTH POOL DAM (3711933/417D)
County Summary: FRESNO
SNA Summary:
Location: NEAR BLACK POINT, WEST OF HUNTINGTON LAKE, SIERRA NATIONAL FOREST.
-----Comments-----
Distribution:
Ecological: FOREST HABITAT DOMINATED BY RED FIR AND LODGEPOLE PINE.
Threat:
General: THREE OWLS HEARD BUT NOT SEEN JUNE 18, AND JULY 7, 12, 16, AND 23, 1979 BY M. KUNDE; ONE MALE HEARD BUT NOT SEEN 8/14/79 BY J. WINTER.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Huntington Lake

<i>Accipiter gentilis</i> northern goshawk Element Code: ABNKC12060	-----List Status----- Federal: Species of Concern State: None	-----NDDB Element Ranks----- Global: G5 State: S3	-----Other Lists----- CDFG Status: SC
---	---	---	--

-----Habitat Associations-----
General: (NESTING) WITHIN AND IN VICINITY OF CONIFEROUS FOREST. USES OLD NESTS, AND MAINTAINS ALTERNATE SITES.
Micro: USUALLY NESTS ON NORTH SLOPES, NEAR WATER. RED FIR, LODGEPOLE PINE, JEFFREY PINE, AND ASPENS ARE TYPICAL NEST TREES.

Occurrence No. 141 Map Index:15620 --Dates Last Seen-- Lat/Long: 37°14'43" / 119°14'48" Township: 08S
Occ Rank: Unknown Element: 1981-07-03 UTM: Zone-11 N4124243 E300725 Range: 25E
Origin: Natural/Native occurrence Site: 1981-07-03 Precision: NON-SPECIFIC Section: 09 Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 7280 ft
Main Source: DEPT. OF FISH & GAME 1984 (PERS)
Quad Summary: HUNTINGTON LAKE (3711922/396B)*, MUSICK MTN. (3711923/397A), KAISER PEAK (3711932/416C), MAMMOTH POOL DAM (3711933/417D)
County Summary: FRESNO
SNA Summary:
Location: COARSEGRASS MEADOW.
-----Comments-----
Distribution:
Ecological:
Threat:
General: EYRIE NO. FR002. ACTIVE NEST WITH TWO JUVENILES IN A RED FIR IN 1981. (NEUSCHATZ)
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Huntington Lake

<i>Rana muscosa</i> mountain yellow-legged frog Element Code: AAABH01140	-----List Status----- Federal: Endangered State: None	NDDB Element Ranks Global: G2 State: S2	-----Other Lists----- CDFG Status: SC
--	---	---	--

-----Habitat Associations-----

General: FEDERAL LISTING REFERS TO POPULATIONS IN THE SAN GABRIEL, SAN JACINTO & SAN BERNARDINO MOUNTAINS ONLY.

Micro: ALWAYS ENCOUNTERED WITHIN A FEW FEET OF WATER. TADPOLES MAY REQUIRE UP TO 2 YRS TO COMPLETE THEIR AQUATIC DEVELOPMENT.

Occurrence No. 186 Map Index:44774 ---Dates Last Seen--- Lat/Long: 37°14'43" / 119°11'34" Township: 08S
Occ Rank: Unknown Element: 1955-06-06 UTM: Zone-11 N4124138 E305485 Range: 25E
Origin: Natural/Native occurrence Site: 1955-06-06 Precision: NON-SPECIFIC Section: 12 Qtr XX
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 343.1 ac Elevation: 6950 ft
Main Source: MUSEUM OF VERTEBRATE ZOOLOGY 2001 (MUS)
Quad Summary: HUNTINGTON LAKE (3711922/396B)*, KAISER PEAK (3711932/416C)
County Summary: FRESNO
SNA Summary:
Location: NORTH SIDE OF HUNTINGTON LAKE, SIERRA NATIONAL FOREST.
-----Comments-----
Distribution: MAPPED TO THE NORTH SHORELINE (BUFFERED SHORELINE).
Ecological: LAKE
Threat:
General: MVZ SPECIMEN #62891 COLLECTED BY E. KARLSTROM (#579), SEX UNKNOWN, WHOLE ANIMAL (ALCOHOL) IN COLLECTION.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Dogtooth Peak

<i>Bufo canorus</i> Yosemite toad Element Code: AAABB01040	<p>-----List Status----- NDDB Element Ranks-----Other Lists-----</p> <p>Federal: Species of Concern Global: G1G2 CDFG Status: SC</p> <p>State: None State: S1S2</p>
--	---

-----Habitat Associations-----
General: VICINITY OF WET MEADOWS IN CENTRAL HIGH SIERRA, 6400 TO 11,300 FEET IN ELEVATION.
Micro: PRIMARILY MONTANE WET MEADOWS; ALSO IN SEASONAL PONDS ASSOCIATED WITH LODGEPOLE PINE AND SUBALPINE CONIFER FOREST.

Occurrence No. 8 Map Index:31079 ---Dates Last Seen--- Lat/Long: 37°15'03" / 119°03'12" Township: 08S
 Occ Rank: Unknown Element: 1993-08-11 UTM: Zone-11 N4124468 E317881 Range: 27E
 Origin: Natural/Native occurrence Site: 1993-08-11 Precision: NON-SPECIFIC Section: XX Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 155.3 ac Elevation: 9200 ft
 Main Source: CANORUS LTD. 1992 (OBS)
 Quad Summary: DOGTOOTH PEAK (3711921/396A)*, MT. GIVENS (3711931/416D)
 County Summary: FRESNO
 SNA Summary:
 Location: LAKECAMP CREEK AND LAKE, ABOUT 1.5 MILES SOUTH OF MOUNT GIVENS, SIERRA NATIONAL FOREST.
 -----Comments-----
 Distribution: A TOTAL OF 12 ADULTS WERE FOUND ALONG THE LAKE AND CREEK. SITE #111.
 Ecological: 31 GARTER SNAKES WERE ALSO FOUND IN THIS AREA. TROUT ARE PPRESENT IN BOTH THE LAKE AND THE CREEK.
 Threat: CATTLE AND TROUT PRESENT
 General: 768 METERS OF STREAM, TRIBUTARY & MEADOW WERE SURVEYED OVER 2 DAYS. 30 EGGS, 20 TADPOLES, 10 ADULTS OBSERVED
 ON 2 SAMPLE DAYS, 1993.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 14 Map Index:43001 ---Dates Last Seen--- Lat/Long: 37°14'01" / 119°02'59" Township: 08S
 Occ Rank: Unknown Element: 1993-08-12 UTM: Zone-11 N4122578 E318147 Range: 27E
 Origin: Natural/Native occurrence Site: 1993-08-12 Precision: SPECIFIC Section: 18 Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 22.7 ac Elevation: 8980 ft
 Main Source: CANORUS LTD. 1994 (PERS)
 Quad Summary: DOGTOOTH PEAK (3711921/396A)
 County Summary: FRESNO
 SNA Summary:
 Location: EAST FORK BIG CREEK, AT THE CROSSING OF THE DUSTY ERS HIM TRAIL, ERS HIM MEADOW, SIERRA NATIONAL FOREST.
 -----Comments-----
 Distribution: SAMPLING DONE UPSTREAM 13-JUL-93 AND DOWNSTREAM 12-AUG-93 OF CROSSING.
 Ecological:
 Threat: CATTLE AND TROUT PRESENT
 General: 13 ADULTS OBSERVED DOWNSTREAM; 25 TADPOLES, 147 ADULTS UPSTREAM, 1993.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 30 Map Index:44552 ---Dates Last Seen--- Lat/Long: 37°13'08" / 119°06'02" Township: 08S
 Occ Rank: Unknown Element: 1949-07-15 UTM: Zone-11 N4121033 E313603 Range: 26E
 Origin: Natural/Native occurrence Site: 1949-07-15 Precision: NON-SPECIFIC Section: 23 Qtr XX
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1 mile Elevation:
 Main Source: CAS HERPETOLOGICAL HOLDINGS 2000 (MUS)
 Quad Summary: DOGTOOTH PEAK (3711921/396A)
 County Summary: FRESNO
 SNA Summary:
 Location: MEADOW, 5 MILES SOUTH OF KAISER PASS
 -----Comments-----
 Distribution: MAPPED TO COORDINATES GIVEN: LAT 37 13' 08.16", LONG 119 06' 03.12 (COORD SOURCE: DELORME STREET ATLAS USA
 4.0) STEEP HILLSIDE AT THIS LOCATION SO MAPPED AS 1 MILE CIRCLE.
 Ecological: HIGH ELEVATION MEADOW
 Threat:
 General: 2 COLLECTED BY LAMONT AND SAVAGE, DEPOSITED IN CAS, CAS-SU #(AMP)10998 - 10999.
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Dogtooth Peak

<i>Rana muscosa</i> mountain yellow-legged frog Element Code: AAABH01140	-----List Status----- Federal: Endangered State: None	-----NDDB Element Ranks----- Global: G2 State: S2	-----Other Lists----- CDFG Status: SC
--	---	---	--

-----Habitat Associations-----
General: FEDERAL LISTING REFERS TO POPULATIONS IN THE SAN GABRIEL, SAN JACINTO & SAN BERNARDINO MOUNTAINS ONLY.
Micro: ALWAYS ENCOUNTERED WITHIN A FEW FEET OF WATER. TADPOLES MAY REQUIRE UP TO 2 YRS TO COMPLETE THEIR AQUATIC DEVELOPMENT.

Occurrence No. 150 Map Index:43001 ---Dates Last Seen--- Lat/Long: 37°14'01" / 119°02'59" Township: 08S
Occ Rank: Unknown Element: 1993-08-12 UTM: Zone-11 N4122578 E318147 Range: 27E
Origin: Natural/Native occurrence Site: 1993-08-12 Precision: SPECIFIC Section: 18 Qtr XX
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 22.7 ac Elevation: 8980 ft
Main Source: CANORUS LTD. 1994 (PERS)
Quad Summary: DOGTOOTH PEAK (3711921/396A)
County Summary: FRESNO
SNA Summary:
Location: EAST FORK BIG CREEK, AT THE CROSSING OF THE DUSTY ERS HIM TRAIL, ERS HIM MEADOW, SIERRA NATIONAL FOREST.
-----Comments-----
Distribution: SAMPLING DONE UPSTREAM 13-JUL-93 AND DOWNSTREAM 12-AUG-93 OF CROSSING.
Ecological: NO INDICATION OF PAST LOGGING
Threat: CATTLE AND TROUT PRESENT
General: 2 ADULTS & 12 TADPOLES OBSERVED DOWNSTREAM; 1 ADULT UPSTREAM, 1993.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Florence Lake

<i>Empidonax traillii</i> willow flycatcher Element Code: ABPAE33040	-----List Status----- Federal: None State: Endangered	-----NDDB Element Ranks----- Global: G5 State: S1S2	-----Other Lists----- CDFG Status:
--	---	---	---------------------------------------

-----Habitat Associations-----
General: (NESTING) INHABITS EXTENSIVE THICKETS OF LOW, DENSE WILLOWS ON EDGE OF WET MEADOWS, PONDS, OR BACKWATERS; 2000-8000 ELEV
Micro: REQUIRE DENSE WILLOW THICKETS FOR NESTING/ROOSTING. LOW, EXPOSED BRANCHES ARE USED FOR SINGING POSTS/HUNTING PERCHES.

Occurrence No. 58 Map Index:00047 ---Dates Last Seen--- Lat/Long: 37°19'09" / 118°58'18" Township: 07S
Occ Rank: Unknown Element: 1984-XX-XX UTM: Zone-11 N4131898 E325291 Range: 27E
Origin: Natural/Native occurrence Site: 1984-XX-XX Precision: NON-SPECIFIC Section: XX Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 7120 ft
Main Source: STAFFORD, M. 1985 (LIT)
Quad Summary: FLORENCE LAKE (3711838/415C)
County Summary: FRESNO
SNA Summary:
Location: POISON MEADOW, JUST N OF SAN JOAQUIN RIVER.
-----Comments-----
Distribution:
Ecological:
Threat: GRAZING.
General: PAIR MATED AND PRODUCED TWO YOUNG IN 1984; NEST WAS DESTROYED BY CATTLE JUST A FEW DAYS AFTER YOUNG FLEDGED.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Ward Mountain

<i>Sphenopholis obtusata</i> prairie wedge grass Element Code: PMPOA5T030	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: None	Global: G5	CNPS List: 2
	State: None	State: S2.2	R-E-D Code: 2-2-1

-----Habitat Associations-----

General: CISMONTANE WOODLAND, MEADOWS AND SEEPS.

Micro: OPEN MOIST SITES, ALONG RIVERS AND SPRINGS, ALKALINE DESERT SEEPS. 360-2325M.

Occurrence No. 7 Map Index:21486 ---Dates Last Seen--- Lat/Long: 37°14'13" / 118°52'52" Township: 08S
Occ Rank: Unknown Element: 1952-07-19 UTM: Zone-11 N4122620 E333147 Range: 28E
Origin: Natural/Native occurrence Site: 1952-07-19 Precision: NON-SPECIFIC Section: 14 Qtr SW
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 117.9 ac Elevation: 7680 ft
Main Source: RAVEN, P. #4552 CAS (HERB)
Quad Summary: WARD MOUNTAIN (3711828/395B)
County Summary: FRESNO
SNA Summary:
Location: HOT SPRINGS AT BLAYNEY MEADOWS.
-----Comments-----
Distribution:
Ecological:
Threat:
General: HERBARIUM LABEL IS ONLY SOURCE ON INFORMATION FOR THIS SITE; NEEDS FIELDWORK.
Owner/Manager: UNKNOWN

Full Condensed Report - Multiple Records per Page
 Ward Mountain

<i>Camissonia sierrae ssp. alticola</i> Mono Hot Springs evening-primrose Element Code: PDONA031H1	-----List Status-----	NDDB Element Ranks-----	-----Other Lists-----
	Federal: Species of Concern	Global: G3T2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

-----Habitat Associations-----
 General: UPPER MONTANE CONIFEROUS FOREST. KNOWN FROM FEW OCCURRENCES IN FRESNO AND MARIPOSA COUNTIES.
 Micro: IN SAND OR GRAVEL OVER GRANITE IN MIXED CONIFER FOREST; WITH GAYOPHYTUM, COLLINSIA, ETC. 2120-2335M.

Occurrence No. 4 Map Index:00098 ---Dates Last Seen--- Lat/Long: 37°15'00" / 118°57'37" Township: 08S
 Occ Rank: Good Element: 1990-06-08 UTM: Zone-11 N4124188 E326138 Range: 28E
 Origin: Natural/Native occurrence Site: 1990-06-08 Precision: SPECIFIC Section: XX Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 13.9 ac Elevation: 7600 ft
 Main Source: CLINES, J. & S. WILSON 1990 (OBS)
 Quad Summary: FLORENCE LAKE (3711838/415C)*, WARD MOUNTAIN (3711828/395B)
 County Summary: FRESNO
 SNA Summary:
 Location: WEST SIDE OF FLORENCE LAKE.
 -----Comments-----
 Distribution: SEVERAL COLONIES MAPPED ALONG USFS TRAIL 30E01 (PIUTE TRAIL).
 Ecological: SHELVES AND PANS OF DECOMPOSED GRANITE GRAVEL IN MIXED CONIFER AND LODGEPOLE PINE FOREST. ASSOCIATED WITH
 MADIA MINIMA, MIMULUS, AND LINANTHUS. GENERALLY NOT FOUND WHERE THE LEAF LITTER IS HEAVY.
 Threat: HEAVY FOOT TRAFFIC, TRAIL CONSTRUCTION, AND MAINTENANCE.
 General: 26,000 PLANTS OBSERVED IN 1990. COLLECTION BY RUSSEL IN 1928 (#75, DS) ATTRIBUTED TO THIS SITE.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 5 Map Index:00144 ---Dates Last Seen--- Lat/Long: 37°14'49" / 118°55'50" Township: 08S
 Occ Rank: Good Element: 1990-06-08 UTM: Zone-11 N4123814 E328763 Range: 28E
 Origin: Natural/Native occurrence Site: 1990-06-08 Precision: SPECIFIC Section: 17 Qtr N
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 56.7 ac Elevation: 7600 ft
 Main Source: CLINES, J. & S. WILSON 1990 (OBS)
 Quad Summary: WARD MOUNTAIN (3711828/395B)
 County Summary: FRESNO
 SNA Summary:
 Location: SOUTH END OF FLORENCE LAKE, ALONG TRAIL TO DOUBLE MEADOW.
 -----Comments-----
 Distribution: SCATTERED COLONIES ALONG USFS TRAIL 30E01 (PIUTE TRAIL). OCCURRENCE BEGINS ALONG THE SOUTHWEST ARM OF THE
 LAKE AND CONTINUES ALONG THE TRAIL TO THE WEST END OF DOUBLE MEADOW.
 Ecological: SHELVES AND PANS OF DECOMPOSED GRANITE GRAVEL IN MIXED CONIFER AND LODGEPOLE PINE FOREST. ASSOCIATED WITH
 MADIA MINIMA, MIMULUS, AND LINANTHUS. GENERALLY NOT FOUND WHERE THE LITTER IS HEAVY.
 Threat: HEAVY FOOT TRAFFIC, TRAIL MAINTENANCE, AND CONSTRUCTION.
 General: 150,000 PLANTS OBSERVED IN MANY COLONIES IN 1990. COLLECTION MADE BETWEEN LAKE AND BLAYNEY MEADOWS IN 1952 BY
 P. RAVEN (#4284, CAS) WAS PROBABLY MADE IN THIS VICINITY.
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Ward Mountain

<i>Martes pennanti pacifica</i> Pacific fisher Element Code: AMAJF01021	-----List Status----- Federal: Species of Concern State: None	-----NDDB Element Ranks----- Global: G5T3T4 State: S2S3	-----Other Lists----- CDFG Status: SC
---	---	---	--

-----Habitat Associations-----
General: INTERMEDIATE TO LARGE-TREE STAGES OF CONIFEROUS FORESTS & DECIDUOUS-RIPARIAN AREAS W/ HIGH PERCENT CANOPY CLOSURE.
Micro: USE CAVITIES, SNAGS, LOGS & ROCKY AREAS FOR COVER & DENNING. NEED LARGE AREAS OF MATURE, DENSE FOREST.

Occurrence No. 39 Map Index:00006 ---Dates Last Seen--- Lat/Long: 37°08'52" / 118°59'48" Township: 09S
Occ Rank: Unknown Element: 1974-08-XX UTM: Zone-11 N4112928 E322674 Range: 27E
Origin: Natural/Native occurrence Site: 1974-08-XX Precision: NON-SPECIFIC Section: 14 Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 8400 ft
Main Source: DEPT. OF FISH & GAME 1987 (OBS)
Quad Summary: WARD MOUNTAIN (3711828/395B)*, DOGTUOTH PEAK (3711921/396A)
County Summary: FRESNO
SNA Summary:
Location: 10 MI NE OF DINKEY CREEK, SIERRA NATIONAL FOREST.
-----Comments-----
Distribution:
Ecological: LODGEPOLE PINE FOREST.
Threat:
General: OBS BY VAN BOSSUYT.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Ward Mountain

Vulpes vulpes necator
Sierra Nevada red fox
Element Code: AMAJA03012

-----List Status-----NDDB Element Ranks-----Other Lists-----
Federal: Species of Concern Global: G5T3 CDFG Status:
State: Threatened State: S1

-----Habitat Associations-----

General: FOUND FROM THE CASCADES DOWN TO THE SIERRA NEVADA. FOUND IN A VARIETY OF HABITATS FROM WET MEADOWS TO FORESTED AREAS.
Micro: USE DENSE VEGETATION & ROCKY AREAS FOR COVER & DEN SITES. PREFER FORESTS INTERSPERSED W/ MEADOWS OR ALPINE FELL-FIELDS.

Occurrence No. 2 Map Index:00104 ---Dates Last Seen--- Lat/Long: 37°15'32" / 118°56'39" Township: 08S
Occ Rank: Unknown Element: 1971-XX-XX UTM: Zone-11 N4125159 E327590 Range: 28E
Origin: Natural/Native occurrence Site: 1971-XX-XX Precision: NON-SPECIFIC Section: 07 Qtr NE
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 7400 ft
Main Source: SCHEMPF, P. & M. WHITE 1977 (LIT)
Quad Summary: FLORENCE LAKE (3711838/415C)*, WARD MOUNTAIN (3711828/395B)
County Summary: FRESNO
SNA Summary:
Location: FLORENCE LAKE, SEQUOIA NATIONAL PARK.
-----Comments-----
Distribution: ORLAND BARTHOLOMEW OF USFS TRAPPED A PALE CROSS PHASE FOX DURING WINTER OF 1971.
Ecological: PINE-DOUGLAS FIR-ABIES FOREST.
Threat:
General:
Owner/Manager: NPS-SEQUOIA NP

Full Condensed Report - Multiple Records per Page
Dogtooth Peak

Carex limosa shore sedge Element Code: PMCYP037K0	-----List Status----- Federal: None State: None	-----NDDB Element Ranks----- Global: G5 State: S3?	-----Other Lists----- CNPS List: 2 R-E-D Code: 2-2-1
---	---	--	--

-----Habitat Associations-----
General: BOGS AND FENS, LOWER MONTANE CONIFEROUS FOREST, MEADOWS, MARSHES AND SWAMPS, UPPER MONTANE CONIFEROUS FOREST.
Micro: IN FLOATING BOGS AND SOGGY MEADOWS AND EDGES OF LAKES. 1200-2775M.

Occurrence No. 1 Map Index:35208 ---Dates Last Seen--- Lat/Long: 37°11'23" / 119°02'24" Township: 09S
Occ Rank: Unknown Element: 1953-07-27 UTM: Zone-11 N4117650 E318929 Range: 27E
Origin: Natural/Native occurrence Site: 1953-07-27 Precision: NON-SPECIFIC Section: XX Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 2/5 mile Elevation: 9150 ft
Main Source: QUIBELL, C. #3002 UC (HERB)
Quad Summary: DOGTOOTH PEAK (3711921/396A)
County Summary: FRESNO
SNA Summary:
Location: TRAIL JUNCTION NORTHEAST OF BLACK PEAK NEAR SOUTH FORK BIG CREEK, NORTHEAST OF CABINS AT WES QUALL STOCK CAMP.
-----Comments-----
Distribution: FOUND IMMEDIATELY NORTHEAST OF CABINS. MAPPED AT SWAMPY AREA NORTH OF QUALLS CAMP.
Ecological: SURROUNDING A FLORIFEROUS MEADOW. C. LIMOSA FORMS DENSE MASS AS IT CLOSES IN ON MENYANTHES-CAREX PONDS
RETAINED BY SOD TERRACES IN UPPER SECTION OF MEADOW. FORMS THICK MAT CAPABLE OF SUPPORTING A PERSON.
Threat:
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1953 COLLECTION BY QUIBELL CITED IN NOTE BY D.W. TAYLOR (1996).
Owner/Manager: UNKNOWN

Full Condensed Report - Multiple Records per Page
Dogtooth Peak

<i>Sphagnum strictum</i> pale peat-moss Element Code: NBMUS6Z170	-----List Status----- Federal: None State: None	-----NDDB Element Ranks----- Global: G5 State: S1.3	-----Other Lists----- CNPS List: 2 R-E-D Code: 3-1-1
--	---	---	--

-----Habitat Associations-----
General: SUBALPINE CONIFEROUS FOREST.
Micro: MOSS GROWING ON SOIL AT LAKE MARGINS. 2600-2800M.

Occurrence No. 1 Map Index:45701 ---Dates Last Seen--- Lat/Long: 37°09'55" / 119°04'11" Township: 09S
Occ Rank: Unknown Element: XXXX-XX-XX UTM: Zone-11 N4115018 E316216 Range: 27E
Origin: Natural/Native occurrence Site: XXXX-XX-XX Precision: NON-SPECIFIC Section: 07 Qtr N
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1/5 mile Elevation: 9240 ft
Main Source: SHEVOCK AND YORK #13885 UNK HERB (HERB)
Quad Summary: DOGTOOTH PEAK (3711921/396A)
County Summary: FRESNO
SNA Summary:
Location: DINKEY LAKES WILDERNESS, OUTLET OF FIRST DINKEY LAKE.
-----Comments-----
Distribution:
Ecological:
Threat:
General: NEEDS FIELDWORK.
Owner/Manager: USFS-SIERRA NF

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Dogtooth Peak

<i>Martes pennanti pacifica</i> Pacific fisher Element Code: AMAJF01021	-----List Status-----	NDDB Element Ranks	-----Other Lists-----
	Federal: Species of Concern	Global: G5T3T4	CDFG Status: SC
	State: None	State: S2S3	

-----Habitat Associations-----
 General: INTERMEDIATE TO LARGE-TREE STAGES OF CONIFEROUS FORESTS & DECIDUOUS-RIPARIAN AREAS W/ HIGH PERCENT CANOPY CLOSURE.
 Micro: USE CAVITIES, SNAGS, LOGS & ROCKY AREAS FOR COVER & DENNING. NEED LARGE AREAS OF MATURE, DENSE FOREST.

Occurrence No. 38 Map Index:15771 ---Dates Last Seen--- Lat/Long: 37°11'35" / 119°06'41" Township: 08S
 Occ Rank: Unknown Element: 1913-12-XX UTM: Zone-11 N4118173 E312596 Range: 26E
 Origin: Natural/Native occurrence Site: 1913-XX-XX Precision: NON-SPECIFIC Section: 34 Qtr XX
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1 mile Elevation: 9200 ft
 Main Source: DEPT. OF FISH & GAME 1987 (OBS)
 Quad Summary: DOGTOOTH PEAK (3711921/396A)*, HUNTINGTON LAKE (3711922/396B)
 County Summary: FRESNO
 SNA Summary:
 Location: NEAR RED TOP CAMP, APPROX 7 MI NNE OF DINKEY CREEK, SIERRA NATIONAL FOREST.
 -----Comments-----
 Distribution:
 Ecological:
 Threat:
 General: ONE OBS DURING NOV; ONE TRAPPED DURING DEC.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 39 Map Index:00006 ---Dates Last Seen--- Lat/Long: 37°08'52" / 118°59'48" Township: 09S
 Occ Rank: Unknown Element: 1974-08-XX UTM: Zone-11 N4112928 E322674 Range: 27E
 Origin: Natural/Native occurrence Site: 1974-08-XX Precision: NON-SPECIFIC Section: 14 Qtr XX
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1 mile Elevation: 8400 ft
 Main Source: DEPT. OF FISH & GAME 1987 (OBS)
 Quad Summary: WARD MOUNTAIN (3711828/395B)*, DOGTOOTH PEAK (3711921/396A)
 County Summary: FRESNO
 SNA Summary:
 Location: 10 MI NE OF DINKEY CREEK, SIERRA NATIONAL FOREST.
 -----Comments-----
 Distribution:
 Ecological: LODGEPOLE PINE FOREST.
 Threat:
 General: OBS BY VAN BOSSUYT.
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Florence Lake

Vulpes vulpes necator
Sierra Nevada red fox
Element Code: AMAJA03012

-----List Status-----NDDB Element Ranks-----Other Lists-----
Federal: Species of Concern Global: G5T3 CDFG Status:
State: Threatened State: S1

-----Habitat Associations-----

General: FOUND FROM THE CASCADES DOWN TO THE SIERRA NEVADA. FOUND IN A VARIETY OF HABITATS FROM WET MEADOWS TO FORESTED AREAS.
Micro: USE DENSE VEGETATION & ROCKY AREAS FOR COVER & DEN SITES. PREFER FORESTS INTERSPERSED W/ MEADOWS OR ALPINE FELL-FIELDS.

Occurrence No. 2 Map Index:00104 ---Dates Last Seen--- Lat/Long: 37°15'32" / 118°56'39" Township: 08S
Occ Rank: Unknown Element: 1971-XX-XX UTM: Zone-11 N4125159 E327590 Range: 28E
Origin: Natural/Native occurrence Site: 1971-XX-XX Precision: NON-SPECIFIC Section: 07 Qtr NE
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 7400 ft

Main Source: SCHEMPF, P. & M. WHITE 1977 (LIT)

Quad Summary: FLORENCE LAKE (3711838/415C)*, WARD MOUNTAIN (3711828/395B)

County Summary: FRESNO

SNA Summary:

Location: FLORENCE LAKE, SEQUOIA NATIONAL PARK.

-----Comments-----

Distribution: ORLAND BARTHOLOMEW OF USFS TRAPPED A PALE CROSS PHASE FOX DURING WINTER OF 1971.

Ecological: PINE-DOUGLAS FIR-ABIES FOREST.

Threat:

General:

Owner/Manager: NPS-SEQUOIA NP

Full Condensed Report - Multiple Records per Page
Mammoth Pool Dam

<i>Lewisia disepala</i> Yosemite lewisia Element Code: PDPOR04060	-----List Status----- Federal: Species of Concern State: None	-----NDDB Element Ranks----- Global: G2 State: S2.2	-----Other Lists----- CNPS List: 1B R-E-D Code: 2-2-3
---	---	---	---

-----Habitat Associations-----
General: LOWER MONTANE CONIFEROUS FOREST, PINYON JUNIPER WOODLAND, UPPER MONTANE CONIFEROUS FOREST.
Micro: FINE GRAVEL ON ROCK OUTCROPS, RIDGES, OR DOMES. GRANITIC SOILS. 1560-2610M.

Occurrence No. 17 Map Index:38761 ---Dates Last Seen--- Lat/Long: 37°20'15" / 119°21'19" Township: 07S
Occ Rank: Excellent Element: 1996-04-13 UTM: Zone-11 N4134710 E291340 Range: 24E
Origin: Natural/Native occurrence Site: 1996-04-13 Precision: SPECIFIC Section: 09 Qtr NW
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 140.0 ac Elevation: 5200 ft
Main Source: CLINES, J. & D. YORK 1996 (OBS)
Quad Summary: MAMMOTH POOL DAM (3711933/417D)
County Summary: MADERA
SNA Summary:
Location: RIDGE BETWEEN SHAKEFLAT CREEK AND WEST FORK CHIQUITO CREEK, ABOUT 1.5 MILES WEST OF MAMMOTH POOL RESERVOIR.
-----Comments-----
Distribution: ON GRANITE DOMES NE OF MINARETS ROAD AT SHAKEFLAT CREEK CROSSING. FOUR COLONIES MAPPED WITHIN THE S 1/2 SW 1/4 SEC 4, SE 1/4 SE 1/4 SEC 5, E 1/2 NE 1/4 SEC 8, AND NW 1/4 SECTION 9.
Ecological: GRANITE DOMES WITHIN JEFFREY PINE FOREST WITH P. JEFFREYI, P. LAMBERTIANA, CALOEDRUS, ARCTOSTAPHYLOS VISCIDA MARIPOSA, ALLIUM OBTUSUM OBTUSUM, SANICULA TUBEROSA, AND MIMULUS LACINIATUS.
Threat: TIMBER HARVEST AND ASSOCIATED VEHICULAR ACTIVITY. CAMPING ALSO LISTED AS A THREAT.
General: MANY HUNDREDS OF PLANTS OBSERVED IN 1996. RARE ASSOCIATES INCLUDE CAMISSONIA SIERRAE SSP. ALTICOLA AND ERIOGONUM PRATTENIANUM VAR. AVIUM.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Mammoth Pool Dam

Collomia rawsoniana (cont.) flaming trumpet Element Code: PDPLM02080	-----List Status----- Federal: Species of Concern State: None	-----NDDB Element Ranks----- Global: G2 State: S2.2	-----Other Lists----- CNPS List: 1B R-E-D Code: 2-2-3
--	---	---	---

Occurrence No. 18 Map Index:15481 ---Dates Last Seen--- Lat/Long: 37°14'25" / 119°21'42" Township: 08S
Occ Rank: Good Element: 1991-06-04 UTM: Zone-11 N4123948 E290517 Range: 24E
Origin: Natural/Native occurrence Site: 1991-06-04 Precision: SPECIFIC Section: 16 Qtr XX
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 423.7 ac Elevation: 4200 ft
Main Source: BRANDT, M. 1979 (OBS)
Quad Summary: MUSICK MTN. (3711923/397A)*, CASCADEL POINT (3711924/397B), MAMMOTH POOL DAM (3711933/417D), SHUTEYE PEAK (3711934/417C)
County Summary: MADERA
SNA Summary:
Location: ROSS CREEK, CLEARWATER CREEK, & UNNAMED TRIBUTARY NEAR HOGUE RANCH.
-----Comments-----
Distribution: ALSO IN SECTIONS 7, 8, 17, & 18.
Ecological: SHADED RIPARIAN AREAS. ASSOCIATED WITH ALNUS RHOMBIFOLIA, MIMULUS CARDINALIS, RHODODENDRON OCCIDENTALE, AQUILEGIA FORMISA, MIMULUS, RUBUS AND CORNUS.
Threat: PROPOSED RV CAMP AT HOGUE RANCH.
General: MANY HUNDREDS OF PLANTS IN 1979, 500 SEEN IN 1991 ALONG TRIB. TO ROSS CREEK.
Owner/Manager: USFS-SIERRA NF, PVT

Full Condensed Report - Multiple Records per Page
Mammoth Pool Dam

<i>Collomia rawsoniana</i> flaming trumpet Element Code: PDPLM02080	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: Species of Concern	Global: G2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

-----Habitat Associations-----
 General: RIPARIAN FOREST, LOWER MONTANE CONIFEROUS FOREST. ENDEMIC TO MADERA AND MARIPOSA COUNTIES.
 Micro: ON STABILIZED ALLUVIUM IN RIPARIAN ZONES. 775-2060M.

Occurrence No. 5 Map Index:15485 ---Dates Last Seen--- Lat/Long: 37°15'33" / 119°21'01" Township: 08S
 Occ Rank: Unknown Element: 1979-08-XX UTM: Zone-11 N4126000 E291572 Range: 24E
 Origin: Natural/Native occurrence Site: 1979-08-XX Precision: SPECIFIC Section: 04 Qtr S
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 77.7 ac Elevation: 4500 ft
 Main Source: WILLING, B. 1979 (OBS)
 Quad Summary: MAMMOTH POOL DAM (3711933/417D)
 County Summary: MADERA
 SNA Summary:
 Location: ALONG FISH CREEK FOR APPROX ONE MI, NEAR FISH CR CAMPGROUND.
 -----Comments-----
 Distribution:
 Ecological: MOIST, SANDY RIPARIAN AREA ASSOCIATED WITH ALNUS RHOMBIFOLIA AND RHODODENDRON OCCIDENTALE.
 Threat:
 General: HEALTHY POPULATION OF 50 PLANTS.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 6 Map Index:15504 ---Dates Last Seen--- Lat/Long: 37°20'18" / 119°20'37" Township: 07S
 Occ Rank: Unknown Element: 1979-08-13 UTM: Zone-11 N4134775 E292388 Range: 24E
 Origin: Natural/Native occurrence Site: 1979-08-13 Precision: SPECIFIC Section: 10 Qtr NW
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 46.3 ac Elevation: 3600 ft
 Main Source: BARTEL, J. 1978 (OBS)
 Quad Summary: MAMMOTH POOL DAM (3711933/417D)
 County Summary: MADERA
 SNA Summary:
 Location: ALONG UNNAMED TRIBUTARY TO WEST SIDE OF MAMMOTH POOL, SOUTH OF CHIQUITO CREEK.
 -----Comments-----
 Distribution:
 Ecological: RIPARIAN AREA ASSOCIATED WITH ALNUS RHOMBIFOLIA AND RHODODENDRON OCCIDENTALE.
 Threat: EXPANSION OF RESERVOIR PROPOSED.
 General: SEVERAL HUNDRED VIGOROUS PLANTS IN 1979.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 7 Map Index:15474 ---Dates Last Seen--- Lat/Long: 37°18'22" / 119°23'00" Township: 07S
 Occ Rank: Good Element: 1991-06-17 UTM: Zone-11 N4131281 E288773 Range: 24E
 Origin: Natural/Native occurrence Site: 1991-06-17 Precision: SPECIFIC Section: XX Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 640.6 ac Elevation: 4300 ft
 Main Source: BRANDT, M. 1979 (OBS)
 Quad Summary: MAMMOTH POOL DAM (3711933/417D)*, SHUTEYE PEAK (3711934/417C)
 County Summary: MADERA
 SNA Summary:
 Location: ROCK CREEK, INCL PART OF GORDON CR & OTHER TRIBUTARIES.
 -----Comments-----
 Distribution: EXTENDS ONTO SHUTEYE PEAK QUAD.
 Ecological: ALONG RIPARIAN AREAS, MOSTLY SHADED. ASSOCIATED WITH ALNUS RHOMBIFOLIA, RHODODENDRON OCCIDENTALE, AQUILEGIA FORMOSA, PELTAPHYLLUM PELTATUM, CORNUS, AND RUBUS. NO PLANTS FOUND ON OPEN BEDROCK AREAS. APPROX 4100-6200 FT ELEVATION.
 Threat: MUCH OF THE AREA AROUND ROCK CREEK CAMPGROUND IS HEAVILY IMPACTED. LOGGING AND HERBICIDE USAGE ALSO THREATEN.
 General: TENS OF THOUSANDS OF PLANTS.
 Owner/Manager: USFS-SIERRA NF, PVT

Full Condensed Report - Multiple Records per Page
Mammoth Pool Dam

Clemmys marmorata
western pond turtle
Element Code: ARAAD02030

—List Status—	NDDB Element Ranks	—Other Lists—
Federal: None	Global: G3G4	CDFG Status: SC
State: None	State: S3	

—Habitat Associations—

General: A THOROUGHLY AQUATIC TURTLE OF PONDS, MARSHES, RIVERS, STREAMS & IRRIGATION DITCHES WITH AQUATIC VEGETATION.
Micro: NEED BASKING SITES AND SUITABLE (SANDY BANKS OR GRASSY OPEN FIELDS) UPLAND HABITAT FOR EGG-LAYING.

Occurrence No. 99	Map Index:32899	—Dates Last Seen—	Lat/Long: 37°21'34" / 119°22'17"	Township: 06S
Occ Rank: Excellent		Element: 1993-08-02	UTM: Zone-11 N4137169 E289979	Range: 24E
Origin: Natural/Native occurrence		Site: 1993-08-02	Precision: SPECIFIC	Section: 32 Qtr XX
Presence: Presumed Extant			Symbol Type: POLYGON	Meridian: M
Trend: Unknown			Area: 88.0 ac	Elevation: 4100 ft

Main Source: ASHBY, C. 1993 (OBS)

Quad Summary: MAMMOTH POOL DAM (3711933/417D)*, SHUTEYE PEAK (3711934/417C)

County Summary: MADERA

SNA Summary:

Location: WEST FORK OF CHIQUITO CREEK; NORTHWEST OF MAMMOTH POOL RESERVOIR.

—Comments—

Distribution: SITES OCCUR ALL ALONG CREEK IN T6S/R24E/SEC 32.

Ecological: LARGE CREEK (12M WIDE, 3M MAX DEPTH) WITH BEDROCK/BOULDER SUBSTRATE. LARGE, DEEP POOLS IN THE SUN. VEGETATION INCLUDES GRASSES, FERNS AND MODERATE MIDDLE CANOPY COVER.

Threat: POSSIBLE THREAT: ROAD 6552 RUNS CLOSE BY, SEVERAL DISPERSED CAMPSITES, FIRE RINGS EVIDENT.

General: 7/7/1993: 24 ADULTS, 6 JUVENILES OBSERVED BY C. ASHBY. 8/2/1993: 38 ADULTS FOUND THROUGHOUT THE SITE, 4 HATCHLINGS FOUND AT THE WESTERN EDGE OF THE SITE BY R. REPLOGLE.

Owner/Manager: USFS-SIERRA NF

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Mammoth Pool Dam

Vulpes vulpes necator
Sierra Nevada red fox
Element Code: AMAJA03012

-----List Status-----NDDB Element Ranks-----Other Lists-----
Federal: Species of Concern Global: G5T3 CDFG Status:
State: Threatened State: S1

-----Habitat Associations-----
General: FOUND FROM THE CASCADES DOWN TO THE SIERRA NEVADA. FOUND IN A VARIETY OF HABITATS FROM WET MEADOWS TO FORESTED AREAS.
Micro: USE DENSE VEGETATION & ROCKY AREAS FOR COVER & DEN SITES. PREFER FORESTS INTERSPERSED W/ MEADOWS OR ALPINE FELL-FIELDS.

Occurrence No. 11 Map Index:15426 ---Dates Last Seen--- Lat/Long: 37°22'49" / 119°23'18" Township: 06S
Occ Rank: Unknown Element: 1973-06-14 UTM: Zone-11 N4139531 E288537 Range: 24E
Origin: Natural/Native occurrence Site: 1973-06-14 Precision: NON-SPECIFIC Section: 30 Qtr N
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 4500 ft
Main Source: SCHEMPF, P. & M. WHITE 1977 (LIT)
Quad Summary: LITTLE SHUTEYE PEAK (3711944/417B)*, MAMMOTH POOL DAM (3711933/417D), SHUTEYE PEAK (3711934/417C), SQUAW DOME (3711943/417A)
County Summary: MADERA
SNA Summary:
Location: NEAR SODA SPRINGS CAMPGROUND.
-----Comments-----
Distribution: 1950 SITING AT 6000 FT ELEV.
Ecological: DOUGLAS FIR-ABIES FIR FOREST.
Threat:
General:
Owner/Manager: UNKNOWN

Occurrence No. 43 Map Index:15541 ---Dates Last Seen--- Lat/Long: 37°22'18" / 119°18'58" Township: 06S
Occ Rank: Unknown Element: 1920-01-XX UTM: Zone-11 N4138416 E294909 Range: 24E
Origin: Natural/Native occurrence Site: 1920-01-XX Precision: NON-SPECIFIC Section: 26 Qtr S
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 4400 ft
Main Source: SCHEMPF, P. & M. WHITE 1977 (LIT)
Quad Summary: MAMMOTH POOL DAM (3711933/417D)*, SQUAW DOME (3711943/417A)
County Summary: MADERA
SNA Summary:
Location: CHIQUITO BASIN, 1 MI N OF FULLERS MEADOWS, MADERA CO.
-----Comments-----
Distribution: "IN THE EARLY PART OF JAN 1920, JOSEPH KINSMAN CAUGHT A RED FOX AT AN ALTITUDE OF LESS THAN 5000 FT, NEAR CHIQUITO BASIN PINE FOREST.
Ecological:
Threat:
General: SOURCE: J. GRINNELL, J. DIXON, & J. LINSDALE. 1937. FUR-BEARING MAMMALS OF CALIF. P. 388.
Owner/Manager: UNKNOWN

Full Condensed Report - Multiple Records per Page
Mammoth Pool Dam

Strix nebulosa

great gray owl

Element Code: ABNSB12040

-----List Status-----

Federal: None

State: Endangered

-----NDDB Element Ranks-----

Global: G5

State: S1

-----Other Lists-----

CDFG Status:

-----Habitat Associations-----

General: (NESTING) RESIDENT OF MIXED CONIFER OR RED FIR FOREST HABITAT, IN OR ON EDGE OF MEADOWS.

Micro: REQUIRE LARGE DIAMETER SNAGS IN A FOREST WITH HIGH CANOPY CLOSURE, WHICH PROVIDE A COOL SUB-CANOPY MICROCLIMATE.

Occurrence No. 20 Map Index:30013 ---Dates Last Seen--- Lat/Long: 37°14'19" / 119°15'33" Township: 08S
Occ Rank: Unknown Element: 1979-08-14 UTM: Zone-11 N4123536 E299597 Range: 25E
Origin: Natural/Native occurrence Site: 1979-08-14 Precision: NON-SPECIFIC Section: 17 Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 7500 ft

Main Source: WINTER, J. 1980 (LIT)

Quad Summary: MUSICK MTN. (3711923/397A)*, HUNTINGTON LAKE (3711922/396B), KAISER PEAK (3711932/416C), MAMMOTH POOL DAM (3711933/417D)

County Summary: FRESNO

SNA Summary:

Location: NEAR BLACK POINT, WEST OF HUNTINGTON LAKE, SIERRA NATIONAL FOREST.

-----Comments-----

Distribution:

Ecological: FOREST HABITAT DOMINATED BY RED FIR AND LODGEPOLE PINE.

Threat:

General: THREE OWLS HEARD BUT NOT SEEN JUNE 18, AND JULY 7, 12, 16, AND 23, 1979 BY M. KUNDE; ONE MALE HEARD BUT NOT SEEN 8/14/79 BY J. WINTER.

Owner/Manager: USFS-SIERRA NF

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Mammoth Pool Dam

Accipiter gentilis
northern goshawk
Element Code: ABNKC12060

-----List Status-----NDDB Element Ranks-----Other Lists-----
Federal: Species of Concern Global: G5 CDFG Status: SC
State: None State: S3

-----Habitat Associations-----

General: (NESTING) WITHIN AND IN VICINITY OF CONIFEROUS FOREST. USES OLD NESTS, AND MAINTAINS ALTERNATE SITES.
Micro: USUALLY NESTS ON NORTH SLOPES, NEAR WATER. RED FIR, LODGEPOLE PINE, JEFFREY PINE, AND ASPENS ARE TYPICAL NEST TREES.

Occurrence No. 141 Map Index:15620 ---Dates Last Seen--- Lat/Long: 37°14'43" / 119°14'48" Township: 08S
Occ Rank: Unknown Element: 1981-07-03 UTM: Zone-11 N4124243 E300725 Range: 25E
Origin: Natural/Native occurrence Site: 1981-07-03 Precision: NON-SPECIFIC Section: 09 Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 7280 ft
Main Source: DEPT. OF FISH & GAME 1984 (PERS)
Quad Summary: HUNTINGTON LAKE (3711922/396B)*, MUSICK MTN. (3711923/397A), KAISER PEAK (3711932/416C), MAMMOTH POOL DAM
(3711933/417D)
County Summary: FRESNO
SNA Summary:
Location: COARSEGRASS MEADOW.
-----Comments-----
Distribution:
Ecological:
Threat:
General: EYRIE NO. FR002. ACTIVE NEST WITH TWO JUVENILES IN A RED FIR IN 1981. (NEUSCHATZ)
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Graveyard Peak

<i>Camissonia sierrae ssp. alticola</i> Mono Hot Springs evening-primrose Element Code: PDONA031H1	-----List Status----- Federal: Species of Concern State: None	-----NDDB Element Ranks----- Global: G3T2 State: S2.2	-----Other Lists----- CNPS List: 1B R-E-D Code: 2-2-3
--	---	---	---

-----Habitat Associations-----
General: UPPER MONTANE CONIFEROUS FOREST. KNOWN FROM FEW OCCURRENCES IN FRESNO AND MARIPOSA COUNTIES.
Micro: IN SAND OR GRAVEL OVER GRANITE IN MIXED CONIFER FOREST; WITH GAYOPHYTUM, COLLINSIA, ETC. 2120-2335M.

Occurrence No. 6 Map Index:00149 ---Dates Last Seen--- Lat/Long: 37°24'46" / 118°55'20" Township: 99X
Occ Rank: Unknown Element: 1953-07-10 UTM: Zone-11 N4142194 E329884 Range: 99X
Origin: Natural/Native occurrence Site: 1953-07-10 Precision: NON-SPECIFIC Section: XX Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 7700 ft
Main Source: QUIBELL, C. #2670 FSC (HERB)
Quad Summary: GRAVEYARD PEAK (3711848/415B)
County Summary: FRESNO
SNA Summary:
Location: ABOVE EAST END OF LAKE THOMAS A. EDISON, NEAR QUAIL MEADOWS, WEST SIDE OF MONO CREEK CANYON.
-----Comments-----
Distribution:
Ecological: ON ICE PLANED BENCHES ABOVE CREEK, WITH JEFFREY PINES, ASPENS AND JUNIPERS. SOUTHEAST SLOPING POCKET.
Threat:
General:
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Graveyard Peak

Gulo gulo luteus

California wolverine

Element Code: AMAJF03012

-----List Status-----NDDB Element Ranks-----Other Lists-----
Federal: Species of Concern Global: G4T2 CDFG Status:
State: Threatened State: S2

-----Habitat Associations-----
General: FOUND IN THE NORTH COAST MOUNTAINS AND THE SIERRA NEVADA. FOUND IN A WIDE VARIETY OF HIGH ELEVATION HABITATS.
Micro: NEEDS WATER SOURCE. USES CAVES, LOGS, BURROWS FOR COVER & DEN AREA. HUNTS IN MORE OPEN AREAS. CAN TRAVEL LONG DISTANCES

Occurrence No. 20 Map Index:00151 ---Dates Last Seen--- Lat/Long: 37°28'03" / 118°55'18" Township: 99X
Occ Rank: Unknown Element: 1929-03-21 UTM: Zone-11 N4148265 E330057 Range: 99X
Origin: Natural/Native occurrence Site: 1929-03-21 Precision: NON-SPECIFIC Section: XX Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1/5 mile Elevation: 10600 ft
Main Source: GUSTAFSON, J. 1980 (PERS)
Quad Summary: GRAVEYARD PEAK (3711848/415B)
County Summary: FRESNO
SNA Summary:
Location: SILVER PASS BETWEEN CHIEF LAKE AND SILVER PASS LAKE IN SILVER DIVIDE.
-----Comments-----
Distribution:
Ecological:
Threat:
General: TRACKS OBSERVED.
Owner/Manager: UNKNOWN

Full Condensed Report - Multiple Records per Page
Graveyard Peak

Vulpes vulpes necator
Sierra Nevada red fox
Element Code: AMAJA03012

-----List Status-----NDDB Element Ranks-----Other Lists-----
Federal: Species of Concern Global: G5T3 CDFG Status:
State: Threatened State: S1

-----Habitat Associations-----
General: FOUND FROM THE CASCADES DOWN TO THE SIERRA NEVADA. FOUND IN A VARIETY OF HABITATS FROM WET MEADOWS TO FORESTED AREAS.
Micro: USE DENSE VEGETATION & ROCKY AREAS FOR COVER & DEN SITES. PREFER FORESTS INTERSPERSED W/ MEADOWS OR ALPINE FELL-FIELDS.

Occurrence No. 57 Map Index:36346 ---Dates Last Seen--- Lat/Long: 37°28'20" / 118°55'53" Township: 05S
Occ Rank: Good Element: 1991-09-14 UTM: Zone-11 N4148811 E329216 Range: 28E
Origin: Natural/Native occurrence Site: 1991-09-14 Precision: NON-SPECIFIC Section: 32 Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1/10 mile Elevation: 10400 ft
Main Source: CRITCHLOW, R. 1991 (OBS)
Quad Summary: GRAVEYARD PEAK (3711848/415B)
County Summary: FRESNO
SNA Summary:
Location: NE SIDE OF PAPOOSE LAKE, IN THE SILVER DIVIDE AREA OF JOHN MUIR WILDERNESS, SIERRA NATIONAL FOREST
-----Comments-----
Distribution:
Ecological: HABITAT CONSISTS OF A SUBALPINE LAKE, WITH WETLAND AROUND THE PERIMETER, AND A SMALL INLET STREAM WITH WILLOW THICKETS; SURROUNDING AREA CONSISTS OF LODGEPOLE/JEFFREY PINE FOREST.
Threat:
General: 1 ADULT OBSERVED AT TWILIGHT ON 14 SEP 1991.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Graveyard Peak

<i>Accipiter gentilis</i> northern goshawk Element Code: ABNKC12060	-----List Status----- Federal: Species of Concern State: None	NDDB Element Ranks Global: G5 State: S3	-----Other Lists----- CDFG Status: SC
---	---	---	--

-----Habitat Associations-----
General: (NESTING) WITHIN AND IN VICINITY OF CONIFEROUS FOREST. USES OLD NESTS, AND MAINTAINS ALTERNATE SITES.
Micro: USUALLY NESTS ON NORTH SLOPES, NEAR WATER. RED FIR, LODGEPOLE PINE, JEFFREY PINE, AND ASPENS ARE TYPICAL NEST TREES.

Occurrence No. 211 Map Index:00051 ---Dates Last Seen--- Lat/Long: 37°29'14" / 118°58'11" Township: 05S
Occ Rank: Unknown Element: 1982-07-20 UTM: Zone-11 N4150541 E325853 Range: 27E
Origin: Natural/Native occurrence Site: 1982-07-20 Precision: NON-SPECIFIC Section: 32 Qtr NW
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 9600 ft
Main Source: DEPT. OF FISH & GAME 1984 (PERS)
Quad Summary: GRAVEYARD PEAK (3711848/415B)*, BLOODY MTN. (3711858/434C)
County Summary: FRESNO
SNA Summary:
Location: MINNOW CRK - JACKSON.
-----Comments-----
Distribution:
Ecological:
Threat:
General: EYRIE NO. FR005. NO NEST LOCATED; TWO SEEN IN FLIGHT (ONE POSSIBLY AN IMMATURE). (STEWART)
Owner/Manager: USFS-SIERRA NF

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Graveyard Peak

<i>Bufo canorus</i> Yosemite toad Element Code: AAABB01040	-----List Status----- Federal: Species of Concern State: None	-----NDDB Element Ranks----- Global: G1G2 State: S1S2	-----Other Lists----- CDFG Status: SC
--	---	---	--

-----Habitat Associations-----
General: VICINITY OF WET MEADOWS IN CENTRAL HIGH SIERRA, 6400 TO 11,300 FEET IN ELEVATION.
Micro: PRIMARILY MONTANE WET MEADOWS; ALSO IN SEASONAL PONDS ASSOCIATED WITH LODGEPOLE PINE AND SUBALPINE CONIFER FOREST.

Occurrence No. 1 Map Index: 21558 ---Dates Last Seen--- Lat/Long: 37°28'17" / 118°55'56" Township: 99X
Occ Rank: Good Element: 1991-09-14 UTM: Zone-11 N4148729 E329135 Range: 99X
Origin: Natural/Native occurrence Site: 1991-09-14 Precision: NON-SPECIFIC Section: XX Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1/5 mile Elevation: 10400 ft
Main Source: CRITCHLOW, R. 1991 (OBS)
Quad Summary: GRAVEYARD PEAK (3711848/415B)
County Summary: FRESNO
SNA Summary:
Location: PAPOOSE LAKE AND VICINITY, NW OF GOODALE PASS, SIERRA NATIONAL FOREST.
-----Comments-----
Distribution:
Ecological: HABITAT CONSISTS OF MEADOW SURROUNDING PAPOOSE LAKE AND ADJACENT GRANITE ROCK/BOULDERS.
Threat: POSSIBLE THREAT FROM HEAVY RECREATIONAL USE OF SITE.
General: ONE MALE AND ONE FEMALE OBSERVED IN DARKNESS BY FLASHLIGHT AT ABOUT 2030.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Sharktooth Peak

<i>Oncorhynchus clarki seleniris</i> Paiute cutthroat trout Element Code: AFCHA02089	-----List Status----- Federal: Threatened State: None	-----NDDB Element Ranks----- Global: G4T1T2 State: S1S2	-----Other Lists----- CDFG Status:
--	---	---	---------------------------------------

-----Habitat Associations-----
General: COOL, WELL-OXYGENATED WATERS
Micro: CANNOT TOLERATE PRESENCE OF OTHER SALMONIDS, REQUIRES CLEAN GRAVEL FOR SPAWNING.

Occurrence No. 2 Map Index:15921 ---Dates Last Seen--- Lat/Long: 37°30'05" / 119°01'43" Township: 05S
Occ Rank: None Element: 1978-XX-XX UTM: Zone-11 N4152214 E320670 Range: 27E
Origin: Transplant Outside of Site: 1980-XX-XX Precision: NON-SPECIFIC Section: XX Qtr XX
Native Hab./Range
Presence: Possibly Extirpated Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 41.3 ac Elevation: 9840 ft
Main Source: GERSTUNG, E. 1980 (PERS)
Quad Summary: CRYSTAL CRAG (3711951/435D)*, SHARKTOOTH PEAK (3711941/416A)
County Summary: FRESNO
SNA Summary: Sharktooth Lake
Location: SHARKTOOTH LAKE AND SHARKTOOTH CREEK.
-----Comments-----
Distribution: NO PAIUTE CUTTHROAT TROUT HAVE BEEN SEEN IN THE LAKE SINCE THE TRANSPLANT. FISH MAY STILL EXIST IN THE OUTFLOW STREAM.
Ecological: A 3 ACRE LAKE IN THE HEADWATERS OF FISH CREEK. IT WAS BARREN UNTIL 1968 WHEN IT WAS PLANTED BY HELICOPTER WITH 6 TROUT FROM DELANEY CREEK & 23 FROM THE NORTH FORK COTTONWOOD CREEK. CREEK HABITAT IS STEEP & PROBABLY MARGINAL.
Threat:
General: NO FISH FOUND IN 1970 OR 1973. IN 1975 & 1978 SOME FISH WERE FOUND IN THE CREEK. NO FISH WERE FOUND IN 1980.
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Sharktooth Peak

<i>Haliaeetus leucocephalus</i> bald eagle Element Code: ABNKC10010	-----List Status----- Federal: Threatened State: Endangered	-----NDDB Element Ranks----- Global: G4 State: S2	-----Other Lists----- CDFG Status:
---	---	---	---------------------------------------

-----Habitat Associations-----
General: (NESTING & WINTERING) OCEAN SHORE, LAKE MARGINS, & RIVERS FOR BOTH NESTING & WINTERING. MOST NESTS WITHIN 1 MI OF WATER.
Micro: NESTS IN LG, OLD-GROWTH, OR DOMINANT LIVE TREE W/OPEN BRANCHES, ESPECIALLY PONDEROSA PINE. ROOSTS COMMUNALLY IN WINTER.

Occurrence No. 232 Map Index:47014 ---Dates Last Seen--- Lat/Long: 37°22'55" / 119°00'08" Township: 06S
Occ Rank: Good Element: 2001-07-26 UTM: Zone-11 N4138922 E322730 Range: 27E
Origin: Natural/Native occurrence Site: 2001-07-26 Precision: SPECIFIC Section: 35 Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 80 meters Elevation: 7800 ft
Main Source: TIGAS, L. 2001 (OBS)
Quad Summary: SHARKTOOTH PEAK (3711941/416A)
County Summary: FRESNO
SNA Summary:
Location: NW SIDE OF LAKE EDISON, 0.25 MILE NE OF VERMILION CAMPGROUND
-----Comments-----
Distribution:
Ecological: HABITAT CONSISTS OF SIERRAN CONIFEROUS FOREST, ALONG LAKE EDISON. SURROUNDING LAND USES INCLUDE RECREATION AND FORESTRY.
Threat:
General: NEST WITH 2 JUVENILES OBSERVED ON 26 JUL 2001.
Owner/Manager: USFS, SOUTHERN CAL EDISON

Full Condensed Report - Multiple Records per Page
 Florence Lake

<i>Camissonia sierrae ssp. alticola</i> (cont.) Mono Hot Springs evening-primrose Element Code: PDONA031H1	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: Species of Concern	Global: G3T2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

Occurrence No. 7 Map Index:00054 ---Dates Last Seen--- Lat/Long: 37°17'03" / 118°58'07" Township: 07S
 Occ Rank: Unknown Element: 1982-06-15 UTM: Zone-11 N4128011 E325488 Range: 27E
 Origin: Natural/Native occurrence Site: 1982-06-15 Precision: SPECIFIC Section: 36 Qtr W
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 140.9 ac Elevation: 7200 ft
 Main Source: LORENZANA, J. 1982 (OBS)
 Quad Summary: FLORENCE LAKE (3711838/415C)
 County Summary: FRESNO
 SNA Summary: Jackass Meadows
 Location: NORTH OF FLORENCE LAKE DAM, W OF JACKASS MEADOW.
 -----Comments-----
 Distribution:
 Ecological: MIXED CONIFER FOREST, SAND AND GRAVEL PANS OVER GRANITE SUBSTRATE. ASSOCIATED WITH GAYOPHYTUM AND COLLINSIA.
 Threat: THREATENED BY SOUTHERN CALIFORNIA EDISON PLANS TO MAKE AREA INTO TRAILHEAD PARKING AREA.
 General: APPROXIMATELY 1000 PLANTS SEEN.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 8 Map Index:31117 ---Dates Last Seen--- Lat/Long: 37°16'22" / 118°58'22" Township: 07S
 Occ Rank: Fair Element: 1990-06-08 UTM: Zone-11 N4126740 E325085 Range: 27E
 Origin: Natural/Native occurrence Site: 1990-06-08 Precision: SPECIFIC Section: XX Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 6.5 ac Elevation: 7600 ft
 Main Source: CLINES, J. & S. WILSON 1990 (OBS)
 Quad Summary: FLORENCE LAKE (3711838/415C)
 County Summary: FRESNO
 SNA Summary:
 Location: WEST SIDE OF THE NORTH END OF FLORENCE LAKE.
 -----Comments-----
 Distribution: TWO COLONIES; ONE IS ALONG BOTH SIDES OF WARD TUNNEL AND THE SECOND IS SOUTH OF THE ROAD TO THE GAGING STATION.
 Ecological: FLATS OF DECOMPOSED GRANITE GRAVEL IN MIXED CONIFER AND LODGEPOLE PINE FOREST.
 Threat: TRAMPLING, ROAD/TRAIL CONSTRUCTION AND MAINTENANCE, OFF ROAD VEHICLE USE.
 General: 560 PLANTS OBSERVED IN TWO COLONIES IN 1990.
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Florence Lake

<i>Camissonia sierrae ssp. alticola</i> Mono Hot Springs evening-primrose Element Code: PDONA031H1	-----List Status-----	NDDB Element Ranks-----	-----Other Lists-----
	Federal: Species of Concern	Global: G3T2	CNPS List: 1B
	State: None	State: S2.2	R-E-D Code: 2-2-3

-----Habitat Associations-----
 General: UPPER MONTANE CONIFEROUS FOREST. KNOWN FROM FEW OCCURRENCES IN FRESNO AND MARIPOSA COUNTIES.
 Micro: IN SAND OR GRAVEL OVER GRANITE IN MIXED CONIFER FOREST; WITH GAYOPHYTUM, COLLINSIA, ETC. 2120-2335M.

Occurrence No. 1 Map Index:15929 ---Dates Last Seen--- Lat/Long: 37°20'06" / 119°00'16" Township: 07S
 Occ Rank: Unknown Element: 1982-06-15 UTM: Zone-11 N4133708 E322417 Range: 27E
 Origin: Natural/Native occurrence Site: 1982-06-15 Precision: SPECIFIC Section: XX Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 404.1 ac Elevation: 7000 ft
 Main Source: QUIBELL, S. & C. #5804 CAS (HERB)
 Quad Summary: MT. GIVENS (3711931/416D)*, FLORENCE LAKE (3711838/415C)
 County Summary: FRESNO
 SNA Summary: Mono Hot Springs Area
 Location: MONO HOT SPRINGS & NE FOR APPROX 2.0 MI.
 -----Comments-----
 Distribution:
 Ecological: IN GRAVEL AND SAND PANS OVER GRANITE SUBSTRATE IN MIXED CONIFER FOREST. ASSOCIATED WITH GAYOPHYTUM.
 Threat: SOME PARKING OCCURS.
 General: INCLUDES FORMER OCCURRENCE #2.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 3 Map Index:00037 ---Dates Last Seen--- Lat/Long: 37°20'07" / 118°58'36" Township: 07S
 Occ Rank: Unknown Element: 1982-06-15 UTM: Zone-11 N4133705 E324894 Range: 27E
 Origin: Natural/Native occurrence Site: 1982-06-15 Precision: SPECIFIC Section: XX Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 23.5 ac Elevation: 7300 ft
 Main Source: HAMON, D. 1979 (OBS)
 Quad Summary: FLORENCE LAKE (3711838/415C)
 County Summary: FRESNO
 SNA Summary: Lower Bear Creek
 Location: BELOW BEAR CREEK DIVERSION DAM, SOUTH OF LAKE THOMAS A. EDISON.
 -----Comments-----
 Distribution: JUST BELOW DAM AROUND THE LAST CAMPSITE AND ROAD ABOVE THE RIVER. USFS POP #15-1.
 Ecological: NORTH SLOPE ABOVE RIVER, WITH PINUS JEFFREYI, GAYOPHYTUM, AND CAMISSONIA. OPEN GRAVEL AND SAND PANS OVER GRANITIC SUBSTRATE WITH SOUTHERN EXPOSURE.
 Threat:
 General: ABOUT 100 PLANTS IN 1979. FAIRLY DENSE POPULATION IN FLOWER AND FRUIT.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 4 Map Index:00098 ---Dates Last Seen--- Lat/Long: 37°15'00" / 118°57'37" Township: 08S
 Occ Rank: Good Element: 1990-06-08 UTM: Zone-11 N4124188 E326138 Range: 28E
 Origin: Natural/Native occurrence Site: 1990-06-08 Precision: SPECIFIC Section: XX Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 13.9 ac Elevation: 7600 ft
 Main Source: CLINES, J. & S. WILSON 1990 (OBS)
 Quad Summary: FLORENCE LAKE (3711838/415C)*, WARD MOUNTAIN (3711828/395B)
 County Summary: FRESNO
 SNA Summary:
 Location: WEST SIDE OF FLORENCE LAKE.
 -----Comments-----
 Distribution: SEVERAL COLONIES MAPPED ALONG USFS TRAIL 30E01 (PIUTE TRAIL).
 Ecological: SHELVES AND PANS OF DECOMPOSED GRANITE GRAVEL IN MIXED CONIFER AND LODGEPOLE PINE FOREST. ASSOCIATED WITH MADIA MINIMA, MIMULUS, AND LINANTHUS. GENERALLY NOT FOUND WHERE THE LEAF LITTER IS HEAVY.
 Threat: HEAVY FOOT TRAFFIC, TRAIL CONSTRUCTION, AND MAINTENANCE.
 General: 26,000 PLANTS OBSERVED IN 1990. COLLECTION BY RUSSEL IN 1928 (#75, DS) ATTRIBUTED TO THIS SITE.
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Florence Lake

<i>Martes pennanti pacifica</i> Pacific fisher Element Code: AMAJF01021	-----List Status----- Federal: Species of Concern State: None	-----NDDB Element Ranks----- Global: G5T3T4 State: S2S3	-----Other Lists----- CDFG Status: SC
---	---	---	--

-----Habitat Associations-----
General: INTERMEDIATE TO LARGE-TREE STAGES OF CONIFEROUS FORESTS & DECIDUOUS-RIPARIAN AREAS W/ HIGH PERCENT CANOPY CLOSURE.
Micro: USE CAVITIES, SNAGS, LOGS & ROCKY AREAS FOR COVER & DENNING. NEED LARGE AREAS OF MATURE, DENSE FOREST.

Occurrence No. 40	Map Index:00168	-----Dates Last Seen-----	Lat/Long: 37°20'52" / 118°54'50"	Township: 99X
Occ Rank: Unknown		Element: 1978-XX-XX	UTM: Zone-11 N4134967 E330475	Range: 99X
Origin: Natural/Native occurrence		Site: 1978-XX-XX	Precision: NON-SPECIFIC	Section: XX Qtr XX
Presence: Presumed Extant			Symbol Type: POINT	Meridian: M
Trend: Unknown			Radius: 1 mile	Elevation: 9800 ft
Main Source: DEPT. OF FISH & GAME 1987 (OBS)				
Quad Summary: FLORENCE LAKE (3711838/415C)				
County Summary: FRESNO				
SNA Summary:				
Location: MARCELLA LAKE, 12 MI ENE OF MONO HOT SPRINGS.				
-----Comments-----				
Distribution:				
Ecological:				
Threat:				
General: FROM CDFG ASBI MAPS.				
Owner/Manager: USFS-SIERRA NF				

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Kaiser Peak

<i>Bufo canorus</i> Yosemite toad Element Code: AAABB01040	<p>-----List Status-----</p> <p>Federal: Species of Concern State: None</p>	<p>-----NDDB Element Ranks-----</p> <p>Global: G1G2 State: S1S2</p>	<p>-----Other Lists-----</p> <p>CDFG Status: SC</p>
--	---	---	---

-----Habitat Associations-----
 General: VICINITY OF WET MEADOWS IN CENTRAL HIGH SIERRA, 6400 TO 11,300 FEET IN ELEVATION.
 Micro: PRIMARILY MONTANE WET MEADOWS; ALSO IN SEASONAL PONDS ASSOCIATED WITH LODGEPOLE PINE AND SUBALPINE CONIFER FOREST.

Occurrence No. 9 Map Index:30908 ---Dates Last Seen--- Lat/Long: 37°15'54" / 119°05'23" Township: 08S
 Occ Rank: Unknown Element: 1993-08-03 UTM: Zone-11 N4126113 E314707 Range: 26E
 Origin: Natural/Native occurrence Site: 1993-08-03 Precision: NON-SPECIFIC Section: XX Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 395.7 ac Elevation: 8000 ft
 Main Source: CANORUS LTD. 1992 (OBS)
 Quad Summary: MT. GIVENS (3711931/416D)*, KAISER PEAK (3711932/416C)
 County Summary: FRESNO
 SNA Summary:
 Location: RANCHERIA CREEK, TRIBUTARY OF HUNTINGTON LAKE, SIERRA NATIONAL FOREST.
 -----Comments-----
 Distribution: 291.5 METERS OF RANCHERIA CREEK, 102.4 METERS OF TRIBUTARY STREAMS, & 374.3 METERS OF MEADOW WERE SURVEYED
 OVER A 2 DAY PERIOD. 1993 SURVEY - BADGER FLAT TRAIL CROSSING, SITE #106.
 Ecological:
 Threat: CATTLE GRAZING, TROUT PRESENT
 General: 13 ADULTS WERE OBSERVED 6/30/92 - 7/1/92. 2 TADPOLES, 5 ADULTS OBSERVED 1993.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 35 Map Index:44772 ---Dates Last Seen--- Lat/Long: 37°18'38" / 119°07'07" Township: 07S
 Occ Rank: Unknown Element: 1955-06-07 UTM: Zone-11 N4131246 E312242 Range: 26E
 Origin: Natural/Native occurrence Site: 1955-06-07 Precision: NON-SPECIFIC Section: 22 Qtr XX
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 2/5 mile Elevation: 8420 ft
 Main Source: MUSEUM OF VERTEBRATE ZOOLOGY 2001 (MUS)
 Quad Summary: MT. GIVENS (3711931/416D)*, KAISER PEAK (3711932/416C)
 County Summary: FRESNO
 SNA Summary:
 Location: KAISER PEAK MEADOWS, 2.5 MILES NORTHWEST OF KAISER PASS SUMMIT, SIERRA NATIONAL FOREST.
 -----Comments-----
 Distribution:
 Ecological: MONTANE MEADOW
 Threat:
 General: 14 MVZ SPECIMEN #'S 61786-88 (26 MAY 1954), 64496-7 (27 MAY 1954), 62643-8, 62653, 62701 & 62703 (7 JUN 1955).
 ALL COLLECTED BY E. L. KARLSTROM.
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Mt. Givens

<i>Sphenopholis obtusata</i> prairie wedge grass Element Code: PMPOA5T030	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: None	Global: G5	CNPS List: 2
	State: None	State: S2.2	R-E-D Code: 2-2-1

-----Habitat Associations-----

General: CISMONTANE WOODLAND, MEADOWS AND SEEPS.

Micro: OPEN MOIST SITES, ALONG RIVERS AND SPRINGS, ALKALINE DESERT SEEPS. 360-2325M.

Occurrence No. 6 Map Index:21487 ---Dates Last Seen--- Lat/Long: 37°19'39" / 119°00'54" Township: 07S
Occ Rank: Unknown Element: 1953-07-25 UTM: Zone-11 N4132899 E321474 Range: 27E
Origin: Natural/Native occurrence Site: 1953-07-25 Precision: NON-SPECIFIC Section: XX Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1/5 mile Elevation: 6800 ft
Main Source: RAVEN P. #5849 UC (HERB)
Quad Summary: MT. GIVENS (3711931/416D)
County Summary: FRESNO
SNA Summary:
Location: MONO HOT SPRINGS, 6 KM NE OF MT. GIVENS.
-----Comments-----
Distribution:
Ecological: NEAR THE MINERAL SPRINGS.
Threat:
General: HERBARIUM LABEL IS ONLY SOURCE OF INFORMATION FOR THIS SITE; NEEDS FIELDWORK.
Owner/Manager: UNKNOWN

Full Condensed Report - Multiple Records per Page
Mt. Givens

<i>Epilobium howellii</i> subalpine fireweed Element Code: PDONA06180	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: None	Global: G1	CNPS List: 1B
	State: None	State: S1.3	R-E-D Code: 3-1-3

-----Habitat Associations-----
General: MEADOWS, SUBALPINE CONIFEROUS FOREST.
Micro: WET MEADOWS, MOSSY SEEPS. 1970-2700M.

Occurrence No. 2 Map Index: 31124 ---Dates Last Seen--- Lat/Long: 37°18'23" / 119°04'56" Township: 17S
Occ Rank: Unknown Element: XXXX-XX-XX UTM: Zone-11 N4130699 E315455 Range: 26E
Origin: Natural/Native occurrence Site: XXXX-XX-XX Precision: NON-SPECIFIC Section: 24 Qtr NE
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 3/5 mile Elevation: 8200 ft
Main Source: HOCH, P. 1992 (LIT)
Quad Summary: MT. GIVENS (3711931/416D)
County Summary: FRESNO
SNA Summary:
Location: 1 MILE SOUTHWEST OF PORTAL FOREBAY.
-----Comments-----
Distribution:
Ecological:
Threat:
General: ONLY SOURCE OF INFORMATION IS UNDATED COLLECTION BY HOCH (#503 MO).
Owner/Manager: UNKNOWN

Full Condensed Report - Multiple Records per Page
Mt. Givens

Camissonia sierrae ssp. alticola
Mono Hot Springs evening-primrose
Element Code: PDONA031H1

-----List Status-----	NDDB Element Ranks	-----Other Lists-----
Federal: Species of Concern	Global: G3T2	CNPS List: 1B
State: None	State: S2.2	R-E-D Code: 2-2-3

-----Habitat Associations-----

General: UPPER MONTANE CONIFEROUS FOREST. KNOWN FROM FEW OCCURRENCES IN FRESNO AND MARIPOSA COUNTIES.
Micro: IN SAND OR GRAVEL OVER GRANITE IN MIXED CONIFER FOREST; WITH GAYOPHYTUM, COLLINSIA, ETC. 2120-2335M.

Occurrence No. 1	Map Index:15929	-----Dates Last Seen-----	Lat/Long: 37°20'06" / 119°00'16"	Township: 07S
Occ Rank: Unknown		Element: 1982-06-15	UTM: Zone-11 N4133708 E322417	Range: 27E
Origin: Natural/Native occurrence		Site: 1982-06-15	Precision: SPECIFIC	Section: XX Qtr XX
Presence: Presumed Extant			Symbol Type: POLYGON	Meridian: M
Trend: Unknown			Area: 404.1 ac	Elevation: 7000 ft

Main Source: QUIBELL, S. & C. #5804 CAS (HERB)

Quad Summary: MT. GIVENS (3711931/416D)*, FLORENCE LAKE (3711838/415C)

County Summary: FRESNO

SNA Summary: Mono Hot Springs Area

Location: MONO HOT SPRINGS & NE FOR APPROX 2.0 MI.

-----Comments-----

Distribution:

Ecological: IN GRAVEL AND SAND PANS OVER GRANITE SUBSTRATE IN MIXED CONIFER FOREST. ASSOCIATED WITH GAYOPHYTUM.

Threat: SOME PARKING OCCURS.

General: INCLUDES FORMER OCCURRENCE #2.

Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Mt. Givens

<i>Rana muscosa</i> mountain yellow-legged frog Element Code: AAABH01140	-----List Status----- Federal: Endangered State: None	-----NDDB Element Ranks----- Global: G2 State: S2	-----Other Lists----- CDFG Status: SC
--	---	---	--

-----Habitat Associations-----
General: FEDERAL LISTING REFERS TO POPULATIONS IN THE SAN GABRIEL, SAN JACINTO & SAN BERNARDINO MOUNTAINS ONLY.
Micro: ALWAYS ENCOUNTERED WITHIN A FEW FEET OF WATER. TADPOLES MAY REQUIRE UP TO 2 YRS TO COMPLETE THEIR AQUATIC DEVELOPMENT.

Occurrence No. 36 Map Index:44197 ---Dates Last Seen--- Lat/Long: 37°17'40" / 119°06'02" Township: 07S
Occ Rank: Unknown Element: 1974-XX-XX UTM: Zone-11 N4129421 E313791 Range: 26E
Origin: Natural/Native occurrence Site: 1974-XX-XX Precision: NON-SPECIFIC Section: 26 Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 2/5 mile Elevation: 9000 ft
Main Source: CASE, S. 1978 (LIT)
Quad Summary: MT. GIVENS (3711931/416D)
County Summary: FRESNO
SNA Summary:
Location: KAISER PASS, APPROXIMATELY 4.0 KILOMETERS SW OF PORTAL FOREBAY; FRESNO COUNTY.
-----Comments-----
Distribution: LOCATION WAS GIVEN ONLY AS KAISER PASS, MAPPED TO INCLUDE KAISER PASS MEADOW.
Ecological:
Threat:
General: SITE DATE APPROXIMATED TO BE 1974; 2 ADULTS COLLECTED AND LABELLED MVZ 136216-136217, DEPOSITED IN THE HERPETOLOGICAL COLLECTION OF THE MUSEUM OF VERTEBRATE ZOOLOGY, UC BERKELEY.
Owner/Manager: USFS-SIERRA NF

Occurrence No. 42 Map Index:30424 ---Dates Last Seen--- Lat/Long: 37°15'31" / 119°03'04" Township: 08S
Occ Rank: Unknown Element: 1992-08-22 UTM: Zone-11 N4125330 E318116 Range: 27E
Origin: Natural/Native occurrence Site: 1992-08-22 Precision: NON-SPECIFIC Section: 07 Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1/5 mile Elevation: 9300 ft
Main Source: CANORUS LIMITED 1992 (PERS)
Quad Summary: MT. GIVENS (3711931/416D)
County Summary: FRESNO
SNA Summary:
Location: LAKECAMP LAKE, LAKECAMP CREEK UPSTREAM FROM LAKE & MEADOW. ABOUT 2.2 KM SOUTH OF MT GIVENS, FRESNO CO.
-----Comments-----
Distribution:
Ecological: 12 YOSEMITE TOADS & 15 GARTER SNAKES OBSERVED. TROUT ARE FOUND IN THE LAKE.
Threat:
General: 1 ADULT OBSERVED 8/22/92; 1122.4 METERS OF STREAM, MEADOW AND LAKE SURVEYED.
Owner/Manager: USFS-SIERRA NF

Occurrence No. 184 Map Index:44772 ---Dates Last Seen--- Lat/Long: 37°18'38" / 119°07'07" Township: 07S
Occ Rank: Unknown Element: 1955-06-07 UTM: Zone-11 N4131246 E312242 Range: 26E
Origin: Natural/Native occurrence Site: 1955-06-07 Precision: NON-SPECIFIC Section: 22 Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 2/5 mile Elevation: 8420 ft
Main Source: MUSEUM OF VERTEBRATE ZOOLOGY 2001 (MUS)
Quad Summary: MT. GIVENS (3711931/416D)*, KAISER PEAK (3711932/416C)
County Summary: FRESNO
SNA Summary:
Location: KAISER PEAK MEADOWS, 2.5 MILES NORTHWEST OF KAISER PASS SUMMIT, SIERRA NATIONAL FOREST.
-----Comments-----
Distribution: LOCATION WAS GIVEN ONLY AS ABOVE, MAPPED TO THE MEADOW AREA.
Ecological: MONTANE MEADOW
Threat:
General: 4 MVZ SPECIMEN #'S: 62870 (27 MAY 1954); 62892, 62894, 62915 (7 JUN 1955) COLLECTED BY E. KARLSTROM (#'S 194; 583, 584, 584A), SEX UNKNOWN, WHOLE ANIMALS (ALCOHOL) IN COLLECTION.
Owner/Manager: USFS-SIERRA NF

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Mt. Givens

<i>Bufo canorus</i> (cont.) Yosemite toad Element Code: AAABB01040	-----List Status-----	NDDB Element Ranks	-----Other Lists-----
	Federal: Species of Concern	Global: G1G2	CDFG Status: SC
	State: None	State: S1S2	

Occurrence No. 35 Map Index:44772 ---Dates Last Seen--- Lat/Long: 37°18'38" / 119°07'07" Township: 07S
 Occ Rank: Unknown Element: 1955-06-07 UTM: Zone-11 N4131246 E312242 Range: 26E
 Origin: Natural/Native occurrence Site: 1955-06-07 Precision: NON-SPECIFIC Section: 22 Qtr XX
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 2/5 mile Elevation: 8420 ft
 Main Source: MUSEUM OF VERTEBRATE ZOOLOGY 2001 (MUS)
 Quad Summary: MT. GIVENS (3711931/416D)*, KAISER PEAK (3711932/416C)
 County Summary: FRESNO
 SNA Summary:
 Location: KAISER PEAK MEADOWS, 2.5 MILES NORTHWEST OF KAISER PASS SUMMIT, SIERRA NATIONAL FOREST.
 -----Comments-----
 Distribution:
 Ecological: MONTANE MEADOW
 Threat:
 General: 14 MVZ SPECIMEN #'S 61786-88 (26 MAY 1954), 64496-7 (27 MAY 1954), 62643-8, 62653, 62701 & 62703 (7 JUN 1955).
 ALL COLLECTED BY E. L. KARLSTROM.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 36 Map Index:44793 ---Dates Last Seen--- Lat/Long: 37°17'43" / 119°06'43" Township: 07S
 Occ Rank: Unknown Element: 1953-07-20 UTM: Zone-11 N4129535 E312784 Range: 26E
 Origin: Natural/Native occurrence Site: 1953-07-20 Precision: NON-SPECIFIC Section: 27 Qtr XX
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 1/5 mile Elevation: 9200 ft
 Main Source: MUSEUM OF VERTEBRATE ZOOLOGY 2001 (MUS)
 Quad Summary: MT. GIVENS (3711931/416D)
 County Summary: FRESNO
 SNA Summary:
 Location: 0.6 MI NORTHWEST OF KAISER PASS AT 9200 FT ELEVATION, KAISER WILDERNESS, SIERRA NATIONAL FOREST.
 -----Comments-----
 Distribution:
 Ecological:
 Threat:
 General: MVZ SPECIMEN #'S 60159-60175, COLLECTED 19-20 JUL 1953 BY E.L. KARLSTROM.
 Owner/Manager: USFS-SIERRA NF

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page
Mt. Givens

<i>Bufo canorus</i> Yosemite toad Element Code: AAABB01040	<p>-----List Status-----</p> <p>Federal: Species of Concern State: None</p>	<p>-----NDDB Element Ranks-----</p> <p>Global: G1G2 State: S1S2</p>	<p>-----Other Lists-----</p> <p>CDFG Status: SC</p>
--	---	---	---

-----Habitat Associations-----
General: VICINITY OF WET MEADOWS IN CENTRAL HIGH SIERRA, 6400 TO 11,300 FEET IN ELEVATION.
Micro: PRIMARILY MONTANE WET MEADOWS; ALSO IN SEASONAL PONDS ASSOCIATED WITH LODGEPOLE PINE AND SUBALPINE CONIFER FOREST.

Occurrence No. 8 Map Index:31079 ---Dates Last Seen--- Lat/Long: 37°15'03" / 119°03'12" Township: 08S
 Occ Rank: Unknown Element: 1993-08-11 UTM: Zone-11 N4124468 E317881 Range: 27E
 Origin: Natural/Native occurrence Site: 1993-08-11 Precision: NON-SPECIFIC Section: XX Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 155.3 ac Elevation: 9200 ft
 Main Source: CANORUS LTD. 1992 (OBS)
 Quad Summary: DOGTOOTH PEAK (3711921/396A)*, MT. GIVENS (3711931/416D)
 County Summary: FRESNO
 SNA Summary:
 Location: LAKECAMP CREEK AND LAKE, ABOUT 1.5 MILES SOUTH OF MOUNT GIVENS, SIERRA NATIONAL FOREST.
 -----Comments-----
 Distribution: A TOTAL OF 12 ADULTS WERE FOUND ALONG THE LAKE AND CREEK. SITE #111.
 Ecological: 31 GARTER SNAKES WERE ALSO FOUND IN THIS AREA. TROUT ARE PRESENT IN BOTH THE LAKE AND THE CREEK.
 Threat: CATTLE AND TROUT PRESENT
 General: 768 METERS OF STREAM, TRIBUTARY & MEADOW WERE SURVEYED OVER 2 DAYS. 30 EGGS, 20 TADPOLES, 10 ADULTS OBSERVED ON 2 SAMPLE DAYS, 1993.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 9 Map Index:30908 ---Dates Last Seen--- Lat/Long: 37°15'54" / 119°05'23" Township: 08S
 Occ Rank: Unknown Element: 1993-08-03 UTM: Zone-11 N4126113 E314707 Range: 26E
 Origin: Natural/Native occurrence Site: 1993-08-03 Precision: NON-SPECIFIC Section: XX Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 395.7 ac Elevation: 8000 ft
 Main Source: CANORUS LTD. 1992 (OBS)
 Quad Summary: MT. GIVENS (3711931/416D)*, KAISER PEAK (3711932/416C)
 County Summary: FRESNO
 SNA Summary:
 Location: RANCHERIA CREEK, TRIBUTARY OF HUNTINGTON LAKE, SIERRA NATIONAL FOREST.
 -----Comments-----
 Distribution: 291.5 METERS OF RANCHERIA CREEK, 102.4 METERS OF TRIBUTARY STREAMS, & 374.3 METERS OF MEADOW WERE SURVEYED OVER A 2 DAY PERIOD. 1993 SURVEY - BADGER FLAT TRAIL CROSSING, SITE #106.
 Ecological:
 Threat: CATTLE GRAZING, TROUT PRESENT
 General: 13 ADULTS WERE OBSERVED 6/30/92 - 7/1/92. 2 TADPOLES, 5 ADULTS OBSERVED 1993.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 22 Map Index:44197 ---Dates Last Seen--- Lat/Long: 37°17'40" / 119°06'02" Township: 07S
 Occ Rank: Unknown Element: 1965-07-04 UTM: Zone-11 N4129421 E313791 Range: 26E
 Origin: Natural/Native occurrence Site: 1965-07-04 Precision: NON-SPECIFIC Section: 26 Qtr XX
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 2/5 mile Elevation: 9000 ft
 Main Source: CAS HERPETOLOGICAL HOLDINGS 2000 (MUS)
 Quad Summary: MT. GIVENS (3711931/416D)
 County Summary: FRESNO
 SNA Summary:
 Location: VICINITY OF KAISER PASS AND KAISER PASS MEADOW, 2.5 MILES SW OF PORTAL FOREBAY.
 -----Comments-----
 Distribution: MVZ COLLECTIONS FROM "KAISER PASS", "0.2 MI N KAISER PASS", "0.2 MI NE KAISER PASS" AND "0.2 MI NW KAISER PASS".
 Ecological:
 Threat:
 General: CAS: #98074-5 (29 MAY 1961), #98650-62 & #97679-83 (6-7 JUL 1964), #102596-605 (4 JUL 1965). MVZ: #26964-7 (30 JUL 1938), #61789, 64498-507 & 81730-1 (27 MAY 1954), #62389, 62639-40, 62649-52, 62654-60, 62700 & 62702 (7 JUN 1955)
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Kaiser Peak

<i>Rana muscosa</i> mountain yellow-legged frog Element Code: AAABH01140	-----List Status----- Federal: Endangered State: None	-----NDDB Element Ranks----- Global: G2 State: S2	-----Other Lists----- CDFG Status: SC
--	---	---	--

-----Habitat Associations-----
General: FEDERAL LISTING REFERS TO POPULATIONS IN THE SAN GABRIEL, SAN JACINTO & SAN BERNARDINO MOUNTAINS ONLY.
Micro: ALWAYS ENCOUNTERED WITHIN A FEW FEET OF WATER. TADPOLES MAY REQUIRE UP TO 2 YRS TO COMPLETE THEIR AQUATIC DEVELOPMENT.

Occurrence No. 184 Map Index:44772 ---Dates Last Seen--- Lat/Long: 37°18'38" / 119°07'07" Township: 07S
 Occ Rank: Unknown Element: 1955-06-07 UTM: Zone-11 N4131246 E312242 Range: 26E
 Origin: Natural/Native occurrence Site: 1955-06-07 Precision: NON-SPECIFIC Section: 22 Qtr XX
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 2/5 mile Elevation: 8420 ft
 Main Source: MUSEUM OF VERTEBRATE ZOOLOGY 2001 (MUS)
 Quad Summary: MT. GIVENS (3711931/416D)*, KAISER PEAK (3711932/416C)
 County Summary: FRESNO
 SNA Summary:
 Location: KAISER PEAK MEADOWS, 2.5 MILES NORTHWEST OF KAISER PASS SUMMIT, SIERRA NATIONAL FOREST.
 -----Comments-----
 Distribution: LOCATION WAS GIVEN ONLY AS ABOVE, MAPPED TO THE MEADOW AREA.
 Ecological: MONTANE MEADOW
 Threat:
 General: 4 MVZ SPECIMEN #'S: 62870 (27 MAY 1954); 62892, 62894, 62915 (7 JUN 1955) COLLECTED BY E. KARLSTROM (#'S 194; 583, 584, 584A), SEX UNKNOWN, WHOLE ANIMALS (ALCOHOL) IN COLLECTION.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 185 Map Index:44773 ---Dates Last Seen--- Lat/Long: 37°17'47" / 119°11'16" Township: 07S
 Occ Rank: Unknown Element: 1954-05-27 UTM: Zone-11 N4129823 E306068 Range: 25E
 Origin: Natural/Native occurrence Site: 1954-05-27 Precision: NON-SPECIFIC Section: 25 Qtr XX
 Presence: Presumed Extant Symbol Type: POINT Meridian: M
 Trend: Unknown Radius: 2/5 mile Elevation: 9500 ft
 Main Source: MUSEUM OF VERTEBRATE ZOOLOGY 2001 (MUS)
 Quad Summary: KAISER PEAK (3711932/416C)
 County Summary: FRESNO
 SNA Summary:
 Location: 0.2 MILE NORTHWEST OF KAISER PEAK SUMMIT, KAISER WILDERNESS, SIERRA NATIONAL FOREST.
 -----Comments-----
 Distribution: LOCATION WAS GIVEN ONLY AS 0.2 MILE NW OF KAISER PEAK SUMMIT, MAPPED TO THAT LOCATION.
 Ecological:
 Threat:
 General: 2 MVZ SPECIMENS #62871, #62872 COLLECTED BY E. KARLSTROM (#'S 220, 221), SEX UNKNOWN, 2 WHOLE ANIMALS (ALCOHOL) IN COLLECTION.
 Owner/Manager: USFS-SIERRA NF

Occurrence No. 186 Map Index:44774 ---Dates Last Seen--- Lat/Long: 37°14'43" / 119°11'34" Township: 08S
 Occ Rank: Unknown Element: 1955-06-06 UTM: Zone-11 N4124138 E305485 Range: 25E
 Origin: Natural/Native occurrence Site: 1955-06-06 Precision: NON-SPECIFIC Section: 12 Qtr XX
 Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
 Trend: Unknown Area: 343.1 ac Elevation: 6950 ft
 Main Source: MUSEUM OF VERTEBRATE ZOOLOGY 2001 (MUS)
 Quad Summary: HUNTINGTON LAKE (3711922/396B)*, KAISER PEAK (3711932/416C)
 County Summary: FRESNO
 SNA Summary:
 Location: NORTH SIDE OF HUNTINGTON LAKE, SIERRA NATIONAL FOREST.
 -----Comments-----
 Distribution: MAPPED TO THE NORTH SHORELINE (BUFFERED SHORELINE).
 Ecological: LAKE
 Threat:
 General: MVZ SPECIMEN #62891 COLLECTED BY E. KARLSTROM (#579), SEX UNKNOWN, WHOLE ANIMAL (ALCOHOL) IN COLLECTION.
 Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Kaiser Peak

<i>Accipiter gentilis</i> northern goshawk Element Code: ABNKC12060	-----List Status----- Federal: Species of Concern State: None	-----NDDB Element Ranks----- Global: G5 State: S3	-----Other Lists----- CDFG Status: SC
---	---	---	--

-----Habitat Associations-----
General: (NESTING) WITHIN AND IN VICINITY OF CONIFEROUS FOREST. USES OLD NESTS, AND MAINTAINS ALTERNATE SITES.
Micro: USUALLY NESTS ON NORTH SLOPES, NEAR WATER. RED FIR, LODGEPOLE PINE, JEFFREY PINE, AND ASPENS ARE TYPICAL NEST TREES.

Occurrence No. 141 Map Index:15620 ---Dates Last Seen--- Lat/Long: 37°14'43" / 119°14'48" Township: 08S
Occ Rank: Unknown Element: 1981-07-03 UTM: Zone-11 N4124243 E300725 Range: 25E
Origin: Natural/Native occurrence Site: 1981-07-03 Precision: NON-SPECIFIC Section: 09 Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 7280 ft
Main Source: DEPT. OF FISH & GAME 1984 (PERS)
Quad Summary: HUNTINGTON LAKE (3711922/396B)*, MUSICK MTN. (3711923/397A), KAISER PEAK (3711932/416C), MAMMOTH POOL DAM (3711933/417D)
County Summary: FRESNO
SNA Summary:
Location: COARSEGRASS MEADOW.
-----Comments-----
Distribution:
Ecological:
Threat:
General: EYRIE NO. FR002. ACTIVE NEST WITH TWO JUVENILES IN A RED FIR IN 1981. (NEUSCHATZ)
Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Kaiser Peak

Strix nebulosa
great gray owl
Element Code: ABNSB12040

-----List Status-----	NDDB Element Ranks	-----Other Lists-----
Federal: None	Global: G5	CDFG Status:
State: Endangered	State: S1	

-----Habitat Associations-----

General: (NESTING) RESIDENT OF MIXED CONIFER OR RED FIR FOREST HABITAT, IN OR ON EDGE OF MEADOWS.

Micro: REQUIRE LARGE DIAMETER SNAGS IN A FOREST WITH HIGH CANOPY CLOSURE, WHICH PROVIDE A COOL SUB-CANOPY MICROCLIMATE.

Occurrence No. 20	Map Index:30013	-----Dates Last Seen-----	Lat/Long: 37°14'19" / 119°15'33"	Township: 08S
Occ Rank: Unknown		Element: 1979-08-14	UTM: Zone-11 N4123536 E299597	Range: 25E
Origin: Natural/Native occurrence		Site: 1979-08-14	Precision: NON-SPECIFIC	Section: 17 Qtr XX
Presence: Presumed Extant			Symbol Type: POINT	Meridian: M
Trend: Unknown			Radius: 1 mile	Elevation: 7500 ft

Main Source: WINTER, J. 1980 (LIT)

Quad Summary: MUSICK MTN. (3711923/397A)*, HUNTINGTON LAKE (3711922/396B), KAISER PEAK (3711932/416C), MAMMOTH POOL DAM (3711933/417D)

County Summary: FRESNO

SNA Summary:

Location: NEAR BLACK POINT, WEST OF HUNTINGTON LAKE, SIERRA NATIONAL FOREST.

-----Comments-----

Distribution:

Ecological: FOREST HABITAT DOMINATED BY RED FIR AND LODGEPOLE PINE.

Threat:

General: THREE OWLS HEARD BUT NOT SEEN JUNE 18, AND JULY 7, 12, 16, AND 23, 1979 BY M. KUNDE; ONE MALE HEARD BUT NOT SEEN 8/14/79 BY J. WINTER.

Owner/Manager: USFS-SIERRA NF

Full Condensed Report - Multiple Records per Page
Kaiser Peak

<i>Epilobium howellii</i> subalpine fireweed Element Code: PDONA06180	-----List Status-----	-----NDDB Element Ranks-----	-----Other Lists-----
	Federal: None	Global: G1	CNPS List: 1B
	State: None	State: S1.3	R-E-D Code: 3-1-3

-----Habitat Associations-----
General: MEADOWS, SUBALPINE CONIFEROUS FOREST.
Micro: WET MEADOWS, MOSSY SEEPS. 1970-2700M.

Occurrence No. 3 Map Index:31123 ---Dates Last Seen--- Lat/Long: 37°14'55" / 119°11'52" Township: 08S
Occ Rank: Unknown Element: XXXX-XX-XX UTM: Zone-11 N4124516 E305073 Range: 25E
Origin: Natural/Native occurrence Site: XXXX-XX-XX Precision: NON-SPECIFIC Section: 12 Qtr NW
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 7080 ft
Main Source: HOCH, P. 1992 (LIT)
Quad Summary: HUNTINGTON LAKE (3711922/396B)*, KAISER PEAK (3711932/416C)
County Summary: FRESNO
SNA Summary:
Location: 3 MILES EAST OF HUNTINGTON LAKE.
-----Comments-----
Distribution: MAPPED AT CNDDB 3 ROAD MILES EAST OF THE COMMUNITY OF HUNTINGTON LAKE ON THE NORTH SHORE OF THE LAKE.
Ecological:
Threat:
General: ONLY SOURCE OF INFORMATION IS UNDATED COLLECTION BY HOCH (#486 MO, RSA).
Owner/Manager: UNKNOWN

APPENDIX C
Regional Forester's List of Sensitive Plant and Animal Species for Region 5

United States
Department
Agriculture

Forest
Service

Sequoia
National
Forest

900 West Grand Avenue
Porterville, CA 93257-2035
(209) 784-1500
(209) 781-6650 TDD

RECEIVED

JUL 23 1998

FILE CODE: 2770

ENTRIX (SAC)

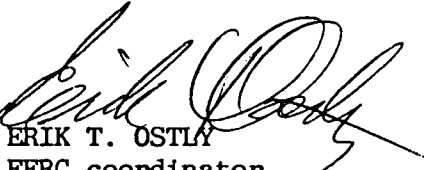
DATE: June 16, 1998

ENTRIX
2601 Fair Oaks Boulevard, Suite 200
Sacramento, CA 95864-4932

Attn: Ed Bianchi:

Enclosed is the FY98 Revision of the Regional Forester's list of
Sensitive Plant and Animal Species.

Please let me know if I can be of further assistance.


ERIK T. OSTLY
FERC coordinator

A number of animal and plant species reviewed for the Sensitive Species revision did not meet all the criteria to be included on the Regional Forester's Sensitive List, but are of sufficient concern that we need to consider them in the planning process. These include species that are locally rare (as opposed to declining throughout their range), are of public concern, occur as disjunct populations, are newly described taxa, or lacking sufficient information on population size, threats, trend, or distribution. Such species make an important contribution to forest biodiversity and should be maintained under the provisions of NFMA, and addressed as appropriate through the NEPA process.

To help identify the "NFMA species" for tracking and analysis purposes forests should consider establishing a "Watch List" for plants and animals. Several forests have already established such lists through their Forest Land and Resource Management Plans, calling them "watch lists", lists of "species of concern", or "species of interest". To avoid confusion with CDFG's "Species of Special Concern", we recommend the term "Watch List". The Watch List will need to be dynamic, and updated as the need arises to reflect changing conditions and new information. The Watch List and supporting documentation should be retained in the planning file and considered during project planning. To analyze potential impacts to these species, consider the context, intensity, and duration of likely effects. Appropriate analysis may range from formal surveys to simple documentation of a lack of potential habitat. Do not incorporate analysis for the Watch List species into the Biological Evaluation, which is reserved for Sensitive Species. Regardless of inclusion on any list, concerns related to NFMA diversity and viability requirements for any species or its habitat can be raised as a NEPA issue, and should be tracked through the planning process.

To help alleviate additional workloads associated with additions to the Sensitive Species List, literature reviews with references concerning life history, habitat relations, threats, and distribution information are being prepared for all newly-listed Sensitive terrestrial animal species. These will soon be distributed to all Forests for inclusion in their BEs. Fact sheets will be developed for all aquatic animals, in a three-ring-binder format.

I believe that regular updates to the Sensitive Species list combined with creation of Forest Watch Lists are key steps in demonstrating our commitment to maintaining biologically diverse and healthy ecosystems. I commend you for the efforts you have made in compiling the information to make this revision possible.

If you have any questions, you may contact Diane Macfarlane for animals at (415) 705-1827, or Anne Bradley for plants at (415) 705-2882.


G. LYNN SPRAGUE
Regional Forester

Author: ec, abradley, 06/02/1998 03:08pm
Concur: ec, dmacfarl, 06/02/1998 03:36pm

Concur: ec, dmacfarl, Acting for ddiaz, 06/03/1998 11:17am

3. CNPS R-E-D Code
- Rarity:
 - 1) rare, but found in sufficient numbers and distributed widely enough that the potential for extinction or extirpation is low at this time.
 - 2) occurrence confined to several populations or to one extended population.
 - 3) occurrence limited to one or a few highly restricted populations, or present in such small numbers that it is seldom reported.
 - Endangerment:
 - 1) not endangered.
 - 2) endangered in a portion of its range.
 - 3) endangered throughout its range.
 - Distribution:
 - 1) more or less widespread outside California.
 - 2) rare outside California.
 - 3) endemic to California.
4. CNPS 5th Ed. 1994
- 1A = plants presumed extinct in California.
 - 1B = plants rare or endangered in California and elsewhere.
 - 2 = plants rare and endangered in California, but more common elsewhere.
 - 3 = plants about which we need more information.
 - 4 = plants of limited distribution (a watch list).
5. Federal Listing
- E = Listed as Endangered under the Endangered Species Act of 1973 (as amended).
 - T = Listed as Threatened under the Endangered Species Act of 1973 (as amended).
 - PT/PE = Proposed rule-making is in effect. (taxon covered under Conference Provisions of ESA until a final rule as Threatened or Endangered occurs).
 - SC = Species of Concern are those taxa for which the U.S. Fish & Wildlife Service are tracking that may warrant T&E designation.
 - C = Candidate for federal listing
6. State Listing
- E = Listed as Endangered under California State ESA of 1985.
 - T = Listed as Threatened under California State ESA of 1985.
 - R = Listed as Rare under California State Native Plant Protection Act of 1982.
 - C = Candidate for state listing by the CDFG Commission.
7. Management
- 1 - Current or potential threats from Forest Service planned, funded, executed or permitted management activities.
 - 2 - No or minimal threats from Forest Service planned, funded, executed or permitted activities at this time.
 - 3 - Insufficient data at this time to evaluate threats from Forest Service planned, funded executed or permitted management activities.
 - * - A taxon believed to represent a taxonomic problem requiring further investigation or resolution.
- Sensitivity

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
NAME	GLOBAL RANK	CNPS LIST NO. 1994	CNPS RED 1994	PED. LIST	STATE LISTING	MANAGEMENT SENSITIVITY	ENDEMISM	FOREST DISTRIBUTION
FEDERALLY LISTED PLANT TAXA								
<u>Arabis macdonaldiana</u> Eastw. Listed as Endangered. 43 FR 44812; Sept. 28, 1978	G2	1B	2-3-2	E	E	1*	N	6-R, KLA
<u>Astragalus albens</u> Greene Listed as Endangered. 59 FR 43652; Aug. 24, 1994	G1	1B	3-3-3	E		1	Y	S-B
<u>Astragalus brauntonii</u> Parish Listed as Endangered. 62 FR 4172; Jan. 29, 1997	G2	1B	3-2-3	E		3	N	ANG, CLE
<u>Baccharis vanessae</u> Beauchamp Listed as Threatened. 61 FR 52370; Oct. 7, 1996	G1	1B	2-3-3	T	E	3	N	CLE
<u>Caulanthus californicus</u> (Wats.) Pays. Listed as Endangered. 55 FR 29370; Jul. 19, 1990	G1	1B	3-3-3	E	E	3	N	L-P
<u>Dodecahema leptoceras</u> (Gray) Rev. & Hardham Listed as Endangered. 52 FR 36270; Sept. 28, 1987	G1	1B	3-3-3	E	E	1	N	ANG, CLE, S-B
<u>Dudleya cymosa</u> (Lem.) Britt. & Rose ssp. <u>ovatifolia</u> Listed as Threatened. 62 FR 4172; Jan. 29, 1997	G5T2Q	1B	2-2-3	T				CLE
<u>Eriqeron parishii</u> Gray Listed as Threatened. 59 FR 43652; Aug. 24, 1994	G2	1B	2-3-3	T		1	Y	S-B
<u>Eriastrum densifolium</u> (Benth.) Mason ssp. <u>sanctorum</u> (Mlkn.) Mason Listed as Endangered. 52 FR 36270; Sept. 28, 1987	G4T1	1B	3-3-3	E	E	1	N	S-B
<u>Eriastrum hooveri</u> (Jeps.) Mason Listed as Threatened. 55 FR 29361; Jul. 19, 1990	G3	4	1-2-3	T		2	N	L-P
<u>Eriogonum ovalifolium</u> Nutt. ssp. <u>vineum</u> (Small) S. Stokes Listed as Endangered. 59 FR 43652; Aug. 24, 1994	G5T1	1B	3-3-3	E		1	Y	S-B
<u>Howellia aquatilis</u> Gray Listed as Threatened. 59 FR 35864; Jul. 14, 1994	G2	1B	---	T		3	N	MEN

FEDERALLY PROPOSED PLANT TAXA

NAME	GLOBAL RANK	CNPS		FED. LIST	STATE LISTING	MANAGEMENT SENSITIVITY	ENDEMISM	FOREST DISTRIBUTION
		LIST NO. 1994	CNPS RED 1994					
<u>Acanthomintha ilicifolia</u> (Gray) Gray	G1	1B	2-3-2	PE	E	2	N	CLE
<u>Allium munzii</u> (Ownbey & Aase) McNeal	G1	1B	3-3-3	PE	T	3	N	CLE
<u>Arabis johnstonii</u> Munz	G2	1B	3-2-3	PT		1	Y	S-B
<u>Arenaria ursina</u> Rob.	G2	1B	2-2-3	PT		1	Y	S-B
<u>Astragalus lentiginosus</u> Hook. var. <u>coachellae</u> F.Shreve & Wiggins	G5T2	1B	2-2-3	PE		3	N	S-B
<u>Astragalus tricarinatus</u> Gray	G1	1B	3-1-3	PE		3	N	S-B
<u>Berberis nevinii</u> Gray	G2	1B	3-3-3	PE	E	1	N	ANG, CLE, S-B
<u>Brodiaea filifolia</u> Wats.	G2	1B	3-3-3	PT	E	3	N	ANG, CLE, S-B
<u>Calyptridium pulchellum</u> (Eastw.) Hoov.	G1	1B	3-3-3	PE		3	N	SIE
<u>Carpenteria californica</u> Torr.	G2	1B	3-2-3	PT	T	1	N	SIE
<u>Castilleja cinerea</u> Gray	G2	1B	2-2-3	PT		1	Y	S-B
<u>Ceanothus ophiochilus</u> Boyd, Ross & Arnseth	G1	1B	3-3-3	PT	E	3	N	CLE
<u>Chlorogalum purpureum</u> Bdg. var. <u>reductum</u> Hoov.	G1T1	1B	3-3-3	PT	R	3	Y	L-P
<u>Cirsium loncholepis</u> Petrak	G2	1B	3-2-3	PE	T	3	N	L-P
<u>Clarkia springvillensis</u> Vasek	G1	1B	3-2-3	PT	E	1	N	SEQ
<u>Eriogonum kennedyi</u> Porter ex Wats. var. <u>austromontanum</u> (Munz & Johnson) Stokes	G4T2	1B	2-2-3	PT		1	Y	S-B, L-P
<u>Fremontodendron mexicanum</u> Davidson	G2	1B	3-2-2	PE	R	1	N	CLE
<u>Fritillaria striata</u> Eastw.	G2	1B	3-3-3	PT	T	2	N	SEQ
<u>Mimulus shevockii</u> Heckard & Bacig.	G1	1B	3-2-3	PE		3	N	SEQ
<u>Navarretia setiloba</u> Cov.	G1	1B	3-3-3	PE		3	N	SEQ

REGION 5 SENSITIVE PLANT TAXA

Vascular Plants

NAME	GLOBAL RANK	CNPS		FED. LIST	STATE LISTING	MANAGEMENT SENSITIVITY	ENDEMISM	FOREST DISTRIBUTION
		LIST NO. 1994	CNPS RED 1994					
<u>Abronia alpina</u> Bdg.	G1	1B	3-3-3	C		1	Y	INY
<u>Abronia nana</u> S.Watson ssp. <u>covillei</u> (Heimerl) Munz	G4T3T4	4	1-2-1			1	N	INY, S-B
<u>Allium jepsonii</u> (Traub.) Denison & McNeal	G1	1B	3-2-3	SC		1	N	PLU, STA
<u>Allium tribracteatum</u> Torr.	G2	1B	3-2-3	SC		1	N	STA
<u>Allium yosemitense</u> Eastw.	G2	1B	2-1-3		R	2	N	SIE, STA
<u>Antirrhinum subcordatum</u> Gray	G3	1B	2-2-3			1	N	MEN
<u>Arabis bodiensis</u> Rollins	G1	1B	2-1-2	SC		3	N	INY, TOI
<u>Arabis breweri</u> Wats. var. <u>pecuniaria</u> Roll.	G4?T1	1B	3-2-3	SC		2	Y	S-B
<u>Arabis constancei</u> Roll.	G2	1B	1-2-3			1	Y	LAS, PLU
<u>Arabis parishii</u> Wats.	G2	1B	2-2-3	SC		1	Y	S-B
<u>Arabis pinzlae</u> Roll.	G1	1B	3-1-2	SC		3	Y	INY
<u>Arabis rigidissima</u> Roll. var. <u>demota</u> Roll.	G3T2	1B	3-2-2	SC		3	N	LTB, TAH
<u>Arabis shockleyi</u> Munz	G3	2	3-2-1			1	N	S-B
<u>Arabis tiehmi</u> Roll.	G1	1B	3-1-2	SC		2	Y*	INY, TOI
<u>Arctostaphylos cruzensis</u> Roof	G2	1B	2-2-3	SC		3	N	L-P
<u>Arctostaphylos edmundsii</u> J. T. Howell	G2	1B	3-2-3	SC		3	N	L-P
<u>Arctostaphylos luciana</u> Wells	G2	1B	2-2-3	SC		2	N	L-P
<u>Arctostaphylos nissenana</u> Merriam	G2	1B	3-2-3	SC		3	N	ELD
<u>Arctostaphylos peninsularis</u> Wells ssp. <u>peninsularis</u>	G2T2	2	3-1-1			3	N	S-B

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
NAME	GLOBAL RANK	CNPS LIST NO. 1994	CNPS RED 1994	FED. LIST	STATE LISTING	MANAGEMENT SENSITIVITY	ENDEMISM	FOREST DISTRIBUTION
<u>Astragalus pulsiferae</u> Gray var. <u>pulsiferae</u>	G4T2	1B	2-1-2			1	N	PLU
<u>Astragalus pulsiferae</u> Gray var. <u>suksdorfii</u>	G4T3	1B	3-1-2	SC		1	N	LAS, MOD, PLU
<u>Astragalus shevockii</u> Barneby	G2	1B	3-1-3			2	Y	SEQ
<u>Astragalus webberi</u> Gray	G1	1B	3-2-3	SC		1	Y	PLU, TAH
<u>Atriplex parishii</u> Wats.	G2?	1B	3-3-2	SC		3	N	S-B
<u>Bensoniella oregana</u> (Abrams & Bacig.) Mort.	G2	1B	3-3-2	SC	R	1	N	6-R
The Genus <u>Botrychium</u> subgenus <u>Botrychium</u> <u>B. ascendens</u> , <u>crenulatum</u> , <u>lunaria</u> , <u>montanum</u>	various	1B/2	various	SC		3	N	ELD, INY, LAS, MEN, PLU, S-B, SEQ, SIE, S-T, TAH
<u>Brodiaea coronaria</u> (Salisb.) Engler ssp. <u>rosea</u> (Greene) Niehaus	G4T1	1B	3-3-3	SC	E	3	N	MEN
<u>Brodiaea insignis</u> (Jeps.) Niehaus	G2	1B	2-2-3	SC	E	3	N	SEQ
<u>Brodiaea orcuttii</u> (Greene) Hoover	G3	1B	1-3-2	SC		3	N	CLE
<u>Calochortus clavatus</u> Wats. var. <u>avius</u> Jeps.	G4T3	1B	2-2-3	SC		1	Y	ELD, TAH
<u>Calochortus dunnii</u> Purdy	G2	1B	2-2-2	SC	R	3	N	CLE
<u>Calochortus greenei</u> Wats.	G2	1B	3-2-2	SC		1	N	KLA
<u>Calochortus longebarbatus</u> Wats. var. <u>longebarbatus</u>	G3T3	1B	1-2-2	SC		3	N	LAS, MOD, S-T
<u>Calochortus obispoensis</u> Lemmon	G2	1B	2-2-3			3	N	L-P
<u>Calochortus palmeri</u> Wats. var. <u>munzii</u> Ownbey	G2T1	1B	3-2-3	SC		1	Y	S-B
<u>Calochortus palmeri</u> Wats. var. <u>palmeri</u>	G2T2	1B	2-2-3	SC		1	N	ANG, L-P, S-B, SEQ
<u>Calochortus persistens</u> Ownbey	G1	1B	3-3-3	SC	R	1	Y	KLA

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
NAME	GLOBAL RANK	CNPS LIST NO. 1994	CNPS RED 1994	FED. LIST	STATE LISTING	MANAGEMENT SENSITIVITY	ENDEMISM	FOREST DISTRIBUTION
<u>Caulostramina jaeqeri</u> (Roll.) Roll.	G1	1B	3-2-3	SC		2	N	INY
<u>Ceanothus cyaneus</u> Eastw.	G2	1B	3-2-2	SC		2	N	CLE
<u>Chaenactis suffrutescens</u> A. Gray	G3	1B	2-1-3			1	N	KLA, S-T
<u>Chorizanthe blakleyi</u> Hardham	G3	4	1-1-3			3	N	L-P
<u>Chorizanthe breweri</u> Wats.	G2	1B	3-1-3			3	Y	L-P
<u>Chorizanthe parryi</u> Wats var. <u>parryi</u>	G2T2?	3	7-2-3	SC		3	N	S-B
<u>Chorizanthe polyganooides</u> T&G var. <u>longispina</u> (Goodm.) Munz	G5T3	1B	2-2-2	SC		3	N	CLE, S-B
<u>Chorizanthe rectispina</u> Goodm.	G1	1B	3-1-3	SC		3	N	L-P
<u>Clarkia australis</u> E. Small	G2	1B	2-2-3			1	N	STA
<u>Clarkia biloba</u> (Durand) Nels. & Macbr. ssp. <u>australis</u> Lewis & Lewis	G4T2	1B	3-2-3			1	N	SIE, STA
<u>Clarkia biloba</u> (Dur.) Nels. & Macbr. var. <u>brandegeae</u> (Jeps.) Harlan & Lewis	G2?	4?	7-7-3			3	N	PLU, TAH
<u>Clarkia delicata</u> (Abrams) Nels. & Macbr.	G2G3	2	1-2-1			3	N	CLE
<u>Clarkia gracilis</u> (Piper) Nels. & Macbr. ssp. <u>albicaulis</u> (Jeps.) Lewis & Lewis	G3	1B	3-2-3			3	N	LAS, PLU
<u>Clarkia lingulata</u> Lewis & Lewis	G1	1B	3-3-3	C	E	1	Y	SIE, STA
<u>Clarkia mosquinii</u> E. Small	G1	1B	3-3-3	SC		3	N	PLU
<u>Clarkia stellata</u> Mosq.	G2	1B	2-1-3			3	N	LAS, PLU, TAH
<u>Claytonia lanceolata</u> Pursh var. <u>peirsonii</u> Munz & Jtn.	G5T1	1B	3-3-3	SC		1+	Y	ANG, S-B
<u>Collomia rawsoniana</u> Greene	G2	1B	2-2-3	SC		1	Y	SIE

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
NAME	GLOBAL RANK	CNPS LIST NO. 1994	CNPS RED 1994	FED. LIST	STATE LISTING	MANAGEMENT SENSITIVITY	ENDEMISM	FOREST DISTRIBUTION
<u>Dudleya densiflora</u> (Rose) Moran	G1	1B	3-3-3	C		2	Y	ANG
<u>Dudleya multicaulis</u> (Rose) Moran	G2	1B	1-2-3	SC		1	N	ANG, CLE
<u>Dudleya viscida</u> (Wats.) Moran	G2	1B	3-2-3	SC		2	N	CLE
<u>Epilobium howellii</u> P. Hoch	G1	1B	3-1-3			3	Y*	ELD, INY, LTB, SIE, STA, TAH
<u>Epilobium nivium</u> Bdg.	G2	1B	2-2-3			2	N	MEN
<u>Epilobium oregonum</u> Greene	G2	1B	2-2-2	SC		1	N	KLA, S-T, 6-R
<u>Eriastrum brandegeae</u> Mason	G3	1B	2-2-3	SC		2*	N	MEN, S-T, 6-R
<u>Ericameria gilmanii</u> (Blake) Nesom	G1	1B	3-1-3			3	N	INY
<u>Erigeron aequifolius</u> Hall	G2	1B	3-1-3			2	N	INY, SEQ, SIE
<u>Erigeron miser</u> Gray	G2	1B	2-1-3			1	Y	TAH
<u>Erigeron multiceps</u> Greene	G1	1B	3-2-3	SC		1	Y*	INY, SEQ
<u>Erigeron uncialis</u> S.F. Blake var. <u>uncialis</u>	G7T3?	2	3-2-1			3	N	INY, S-B
<u>Eriogonum alpinum</u> Engelm.	G2	1B	3-1-3	SC	E	2	Y	KLA, S-T
<u>Eriogonum breedlovei</u> (J.T. Howell) Reveal var. <u>breedlovei</u>	G3T2	1B	3-2-3	SC		1	Y	SEQ
<u>Eriogonum butterworthianum</u> J.T. Howell	G1	1B	3-1-3	SC	R	3	Y	L-P
<u>Eriogonum kennedyi</u> Wats. var. <u>alpiqenum</u> M. & J.	G4T2	1B	2-1-3			3	Y	ANG, L-P, S-B
<u>Eriogonum microthecum</u> Nutt. var. <u>johnstonii</u> Reveal	G5T1	1B	3-1-3	SC		2	Y	ANG, S-B
<u>Eriogonum nervulosum</u> (Stokes) Reveal	G2	1B	3-2-3	SC		3	Y	MEN
<u>Eriogonum nudum</u> Dougl. ex Benth. var. <u>regivirum</u> Rev. & J. Stebbins	G5T2	1B	3-2-3			3	Y	SIE

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
NAME	GLOBAL RANK	CNPS LIST NO. 1994	CNPS RED 1994	FED. LIST	STATE LISTING	MANAGEMENT SENSITIVITY	ENDEMISM	FOREST DISTRIBUTION
<u>Fritillaria eastwoodiae</u> Macfarlane	G3	1B	3-3-3	SC		1*	N	LAS, PLU, TAH
<u>Fritillaria falcata</u> (Jeps.) D.E. Beetle	G2	1B	3-3-3	SC		3	N	L-P
<u>Fritillaria ojaiensis</u> A. Davids	G1	1B	3-2-3	SC		3	N	L-P
<u>Fritillaria viridea</u> Kellogg	G3	4	1-2-3	SC		3	N	L-P
<u>Galium angustifolium</u> Nutt. ssp. <u>jacinticum</u> Dempster & Stebbins	G5T1	1B	3-1-3			1	Y	S-B
<u>Galium californicum</u> H. & A. ssp. <u>lucianse</u> Demp. & Steb.	G5T2	1B	3-1-3	SC		3	Y	L-P
<u>Galium californicum</u> H. & A. ssp. <u>primum</u> Demp. & Steb.	G5T1	1B	3-2-3	SC		1	Y	S-B
<u>Galium glabrescens</u> (Ehrend.) Demp. & Ehrend. ssp. <u>modocense</u> Demp & Ehrend.	G47T2	1B	2-2-3			3	Y	MOD
<u>Galium grande</u> McClatchie	G1	1B	3-1-3	SC		3	Y	ANG
<u>Galium hardhamiae</u> Dempster	G2	1B	2-1-3			3	Y	L-P
<u>Galium serpenticum</u> Demp. ssp. <u>warnerense</u> Demp. & Ehrend.	G4G5T1	1B	3-2-2			3*	N	MOD
<u>Gentiana setigera</u> A. Gray	G2	1B	3-3-2	SC		3	N	6-R
<u>Githopsis diffusa</u> Gray ssp. <u>filicaulis</u> (Ewan) Moran	G5T3T4	1B	3-3-2	SC		3	N	CLE
<u>Hemizonia floribunda</u> Gray	G3	1B	2-2-2	SC		3	N	CLE
<u>Hemizonia mohavensis</u> Keck	G1	1B	2-2-3	SC	E	3	N	CLE, S-B
<u>Hesperolinon drymarioides</u> (Durrant) Small	G1	1B	3-2-3	SC		1	Y	MEN
<u>Heterotheca monarchensis</u> York, Shevock, & Semple	G1	1B	3-1-3			2	Y*	SEQ, SIB
<u>Heuchera hirsutissima</u> C. Rosend et al.	G2	1B	3-1-3			3	N	S-B

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
NAME	GLOBAL RANK	CNPS LIST NO. 1994	CNPS RED 1994	FED. LIST	STATE LISTING	MANAGEMENT SENSITIVITY	ENDEMISM	FOREST DISTRIBUTION
<u>Lavia heterotricha</u> (DC) Hook. & Arn.	G1	1B	3-3-3	SC		3	N	L-P
<u>Lepechinia cardiophylla</u> Epling	G2	1B	3-2-2			1	N	CLE
<u>Leptodactylon jaegeri</u> (Munz) Wherry	G2	1B	2-2-3			2	N	S-B
<u>Lessingia glandulifera</u> A. Gray var. <u>tomentosa</u> (E. Greene) Ferris	G4?T2?	2	3-1-1	SC		3	N	CLE
<u>Lewisia cantelovii</u> J.T. Howell	G3	1B	2-2-3			1	N	LAS, PLU, S-T, TAH
<u>Lewisia congdonii</u> (Rydb.) J.T. Howell	G1	1B	3-1-3		R	2	Y*	SEQ, SIE, STA
<u>Lewisia disepala</u> Rydb.	G2	1B	2-1-3			3	N	SEQ, SIE
<u>Lewisia longipetala</u> (Piper) Clay	G2	1B	3-1-3			1	N	BLD, LTB, TAH
<u>Lewisia oppositifolia</u> (Wats.) Rob in Gray	G4	1B	2-2-2			3	N	6-R
<u>Lewisia serrata</u> Heckard & Stebbins	G2	1B	3-3-3	SC		1	N	BLD, TAH
<u>Lewisia stebbinsii</u> Gankin & Hildreth	G1	1B	3-2-3	SC		1	Y	MEN
<u>Lilium parryi</u> Wats.	G3	1B	2-2-2	SC		1	N	ANG, CLE, S-B
<u>Limnanthes floccosa</u> Howell ssp. <u>bellingeriana</u> (M. Peck) Arroyo	G4T2	1B	3-2-2	SC		3	N	LAS
<u>Limnanthes gracilis</u> Howell var. <u>parishii</u> (Jeps.) C. Mason	G3T2	1B	2-2-3	SC	E	1	N	CLE
<u>Linanthus concinnus</u> Milliken	G2	1B	3-2-3	SC		1	Y	ANG, S-B
<u>Linanthus floribundus</u> (A. Gray) Milliken ssp. <u>hallii</u> (Jepson) H. Mason	G4T1	1B	3-1-3			3	N	S-B
<u>Linanthus harknessii</u> (Curran) Greene ssp. <u>condensatus</u> Mason	G4T1	--	-----			3	Y	MEN
<u>Linanthus killipii</u> Mason	G2	1B	2-2-3	SC		1	Y	S-B

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
NAME	GLOBAL RANK	CNPS LIST NO. 1994	CNPS RED 1994	FED. LIST	STATE LISTING	MANAGEMENT SENSITIVITY	ENDEMISM	FOREST DISTRIBUTION
<u>Mimulus exiguus</u> Gray	G2	1B	2-2-2	SC		1	Y	S-B
<u>Mimulus filicaulis</u> Wats.	G2	1B	2-2-3	SC		1	N	SIE, STA
<u>Mimulus gracilipes</u> Robinson	G3	4	1-1-3			3	N	SEQ, SIE, STA
<u>Mimulus pulchellus</u> (E. Greene) A.L. Grant	G3	4	1-1-3			3	N	SIE, STA
<u>Mimulus purpureus</u> Grant	G2	1B	2-3-1	SC		1	Y	S-B
<u>Minuartia decumbens</u> Nelson & Nelson	G1	1B	3-2-3	SC		3	N	6-R
<u>Minuartia rosei</u> (Maguire & Barneby) McNeill	G3	4	1-2-3			1	Y	S-T
<u>Minuartia stolonifera</u> Nelson & Nelson	G1	1B	3-1-3			3	Y	KLA
<u>Monardella beneolens</u> Shevock, Ertter & Jokerst	G1	1B	3-1-3			2	N	INY
<u>Monardella hypoleuca</u> Gray ssp. <u>lanata</u> (Abrams) Munz	G57T2	1B	2-2-2			1	N	CLE
<u>Monardella follettii</u> (Jepson) Jokerst	G1	1B	3-1-3			3	N	PLU, TAH
<u>Monardella linioides</u> A. Gray ssp. <u>oblonga</u> (E. Greene) Abrams	G5T2	1B	3-1-3			3	N	L-P, SEQ, SIE
<u>Monardella macrantha</u> A. Gray ssp. <u>hallii</u> Abrams	G5T3	1B	2-1-3			3	N	ANG, L-P, S-B
<u>Monardella nana</u> Gray ssp. <u>leptosiphon</u> (Torr.) Abrams	G4G5T2	2	3-2-1	SC		1	N	CLE, S-B
<u>Monardella stebbinsii</u> Hardham & Bartel	G1	1B	3-1-3			1	Y	PLU
<u>Monardella viridis</u> Jepson ssp. <u>saxicola</u> (Ewan) I.M. Johnston	G3T3	4	1-2-3			3	N	ANG, S-B
<u>Navarretia peninsularis</u> E. Greene	G37	1B	2-2-2			3	N	ANG, CLE, L-P, S-B, SEQ

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
NAME	GLOBAL RANK	CNPS		FED. LIST	STATE LISTING	MANAGEMENT SENSITIVITY	ENDEMISM	FOREST DISTRIBUTION
		LIST NO. 1994	CNPS RED 1994					
<u>Phacelia cookei</u> Constance & Heckard	G3	1B	3-3-3	SC		1	Y*	KLA, S-T
<u>Phacelia greenei</u> J.T. Howell	G2	1B	2-2-3	SC		1	N	KLA, S-T
<u>Phacelia innudata</u> J. Howell	G2	2	2-1-1			3	N	LAS, MOD
<u>Phacelia monoensis</u> Halse	G3	1B	3-3-2	SC		1	N	INY
<u>Phacelia novemmillensis</u> Munz	G2	1B	3-2-3	SC		3	N	INY, SEQ
<u>Phacelia stebbinsii</u> Constance & Heckard	G3	1B	2-2-3	SC		1	N	ELD, TAH
<u>Phacelia suaveolens</u> Greene ssp. <u>keckii</u> (Munz & Johnston) Thorne	G5T1	1B	3-1-3	SC		3	N	CLB
<u>Phlox dolichantha</u> Gray	G2	1B	2-2-3	SC		1	Y	S-B
<u>Plagiobothrys uncinatus</u> J. Howell	G2	1B	2-2-3	SC		3	N	L-P
<u>Pogogyne floribunda</u> Jokerst	G3	1B	2-2-3			3	N	LAS, MOD
<u>Polemonium chartaceum</u> H. Mason	G1	1B	3-1-2			3	N	INY, S-T
<u>Polycstenium williamsiae</u> Rollins	G1	--	----	C		3	N	INY, TOI
<u>Polygonum polygaloides</u> Meissner ssp. <u>esotericum</u> (Wheeler) Hickman	G4G5T1	1B	3-3-3			3	N	MOD
<u>Potentilla rimicola</u> (Munz & Johnst.) Ertter	G3	1B	2-1-2			3	N	S-B
<u>Puccinella howellii</u> Davis	G1	1B	3-3-3	SC		3	N	S-T
<u>Pyrrocoma lucida</u> (Keck) Kartesz & Gandhi	G1	1B	3-1-3			1	N	PLU, TAH
<u>Pyrrocoma uniflora</u> (Hook.) Greene var. <u>gossypina</u> (Greene) Kartesz & Gandhi	G5T2	1B	2-2-3	SC		1	Y	S-B
<u>Quercus dumosa</u> Nutt.	G2	1B	2-3-2	SC		3	N	L-P
<u>Raillardella pringlei</u> Greene	G2	1B	2-2-3	SC		1	Y*	KLA, S-T
<u>Raillardiopsis muirii</u> (Gray) Rydb.	G2	1B	2-1-3			3	N	L-P, SEQ, SIE

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
NAME	GLOBAL RANK	CNPS LIST NO. 1994	CNPS RED 1994	FED. LIST	STATE LISTING	MANAGEMENT SENSITIVITY	ENDEMISM	FOREST DISTRIBUTION
<u>Sidalcea hickmanii</u> Greene ssp. <u>hickmanii</u>	G3T2	1B	2-1-3			3	N	L-P
<u>Sidalcea hickmanii</u> Greene ssp. <u>parishii</u> (Rob.) C.L. Hitchcock	G3T1	1B	3-2-3	C	R	3	Y*	L-P, S-B
<u>Silene campanulata</u> Wats. ssp. <u>campanulata</u>	G5T1	1B	3-3-3	C	E	1	N	MEN
<u>Silene occidentalis</u> S. Wats. ssp. <u>longistipitata</u> C. Hitchc. & Maguire	G4T1Q	3	7-7-3	SC		3	N	LAS, PLU
<u>Smilax jamesii</u> G. Wallace	G2	1B	2-1-3			3	N	KLA, S-T, 6-R
<u>Streptanthus campestris</u> S. Wats.	G2	1B	2-1-2			3	N	CLE, L-P, S-B
<u>Streptanthus cordatus</u> Nutt. var. <u>piutensis</u> J.T. Howell	G5T1	1B	3-2-3	SC		2	N	SEQ
<u>Streptanthus fenestratus</u> (Greene) J. Howell	G2	1B	2-1-3			2	N	SEQ, SIE
<u>Streptanthus howellii</u> Wats.	G2	1B	3-2-2			1	N	6-R
<u>Streptanthus oliganthus</u> Roll.	G3	1B	2-2-2	SC		3	N	INY, TOI
<u>Tauschia howellii</u> (Coul. & Rose) Macbr.	G1	1B	3-1-2	SC		2	N	KLA, 6-R
<u>Tetracoccus dioicus</u> Gray	G3	1B	3-2-2	SC		3	N	CLE
<u>Thermopsis californica</u> Wats. var. <u>semota</u> (Jeps.) Chen & Turner	G4T2Q	1B	2-2-3	SC		1	N	CLE
<u>Thermopsis macrophylla</u> H. & A.	G1	1B	3-1-3	SC	R	2	Y	L-P
<u>Thermopsis robusta</u> Howell	G2Q	1B	2-2-3			3	N	KLA, 6-R
<u>Tracyina rostrata</u> Blake	G1	1B	3-1-3			3	N	6-R
<u>Trifolium bolanderi</u> Gray	G3	1B	2-2-3	SC		2	N	SIE
<u>Vaccinium coccinium</u> Piper	G5Q	3	2-1-7			1*	N	PLU, TAH
<u>Viola pinetorum</u> E. Greene ssp. <u>grisea</u> (Jepson) R.J. Little	G4G5T1	1B	3-1-3			3	N	INY, S-B, SEQ, SIE

Cryptogams

Several bryophytes and lichens have been deemed worthy of sensitive species designation. Although these taxonomic groups generally have a wider geographical range and therefore higher global ranks, the taxa added here are extremely localized and rare in California. Some of these taxa may in the future be more appropriately addressed as species of concern from a biodiversity perspective via the NFMA regs. However, in the interim, they will be managed as sensitive until more conclusive data on their rarity and viability become available.

Other lichens and bryophytes are identified as Survey & Manage taxa under the NWFP. Those taxa will not be added as sensitive until the viability issue has been resolved by the survey and manage process. There are probably rare and or endemic lichens and bryophytes in southern California forests, but at this time, data is lacking to determine which species may meet the criteria as Forest Service sensitive. Due to the studies conducted during SNEP, the following lichen and bryophytes have been evaluated based on their distribution and habitat information available.

Plant Name and Taxonomic Group	General Habitat Attributes	Distribution
LICHENS		
<u>Hydrothyria venosa</u> J. Russell	An large aquatic lichen in cold, clear streams and springs (unpolluted). Looks like a small piece of dark colored lettuce with white veins.	SEQ, SIE, STA
MOSESSES		
<u>Bruchia bolanderi</u> Lesq.	A species endemic to Sierran meadows, generally on soil bank of streamlets. Known in CA from fewer than 10 sites.	ELD, SEQ, SIE, STA, TAH
<u>Meesia triquetra</u> (Richter) Aongstr.	Known from CA from a few sites. Restricted to Sierran meadows usually associated with <u>Sphagnum</u> and cold springs/seeps. Also w/ <u>Vaccinium</u> .	SEQ, SIE, STA?
<u>Meesia uliginosa</u> Hedw.	Known from CA from a few sites. Restricted to Sierran meadows usually in the subalpine zone.	SEQ, SIE, STA?, TAH
<u>Orthotrichum spjutii</u> Norris & Vitt	Known from 2 general areas (Sonora Pass & Walker Pass). On granitic rocks	INY, SEQ, STA, TOI

Scientific Name	Common Name	ANG	CLE	EID	INY	KLA	LAS	LP	MEN	MOB	BRIV	PLU	SB	SEQ	S-T	SIE	STA	TAH	LTB
<i>Rana boylei</i>	Foothill yellow-legged frog	X		X		X	X	X	X		X	X	X	X	X	X	X	X	
<i>Rana muscosa</i>	Mountain yellow-legged frog	X	X	X	X		X					X	X	X		X	X	X	X
<i>Rana cascade</i>	Cascade frog					X	X			X					X				
<i>Rana pipiens</i>	Northern leopard frog			X	X					X		X							X
<i>Rana pretiosa</i>	Spotted frog									X									

REPTILES

<i>Clemmys marmorata marmorata</i>	Northwestern pond turtle			X		X	X		X	X	X	X			X	X	X	X	
<i>Clemmys marmorata pallida</i>	Southwestern pond turtle	X	X					X					X	X		X	X		
<i>Phrynosoma coronatum blainvillii</i>	San Diego horned lizard	X	X										X						
<i>Xantusia vigilis sierrae</i>	Sierra night lizard													X					
<i>Elgaria panamintina</i>	Panamint alligator lizard				X														
<i>Anniella pulchra</i>	California legless lizard	X	X					X					X	X					
<i>Diadophis punctatus modestus</i>	San Bernardino ringneck snake	X											X						
<i>Diadophis punctatus similis</i>	San Diego ringneck snake		X										X						
<i>Charina bottae umbratica</i>	Southern rubber boa	X						X					X						
<i>Lichanura trivirgata roseofusca</i>	Coastal rosy boa	X	X										X						
<i>Lampropeltis zonata parvirubra</i>	San Bernardino Mtn. kingsnake	X											X						
<i>Lampropeltis zonata pulchra</i>	San Diego Mountain kingsnake		X										X						
<i>Thamnophis hammondi</i>	Two-striped garter snake	X	X					X					X						

TERRESTRIAL INVERTEBRATES

None Recommended at this Time

AQUATIC INVERTEBRATES

<i>Anodonta californiensis</i>	CA floater (freshwater mussel)						X			X					X				
<i>Helisoma newberryi newberryi</i>	Great Basin rams-horn (snail)						X												X
<i>Juga (Calibasis) acutiflora</i>	Scalloped Juga (snail)						X			X									
<i>Juga (Calibasis) occata</i>	Topaz Juga (snail)						X								X				
<i>Pisidium (Cyclocaelyx) ultramontanum</i>	Montane peaclam						X								X				
<i>Pyrgulopsis owensensis</i>	Owen's Valley springsnail				X														
<i>Pyrgulopsis wongi</i>	Wong's springsnail				X														

INLAND AND ANADROMOUS FISHES

<i>Calostomus occidentalis lacusanserinus</i>	Goose Lake sucker									X									
<i>Calostomus santanae</i>	Santa Ana sucker	X						X					X						
<i>Gasterosteus aculeatus microcephalus</i>	Partially armored 3spine stickleback												X						
<i>Gila bicolor pectinifer</i>	Lahontan Lake tul chub																		X
<i>Gila bicolor thalassina</i>	Goose Lake tul chub									X									
<i>Gila orcutti</i>	Arroyo chub	X	X					X					X						
<i>Lampetra tridentata ssp.</i>	Goose Lake lamprey									X									
<i>Lavina exilicauda chl</i>	Clear Lake hitch								X										
<i>Mylopharodon conocephalus</i>	Hardhead			X								X	X	X	X	X	X	X	
<i>Oncorhynchus mykiss aguabonita</i>	Volcano Creek golden trout				X									X					
<i>Oncorhynchus mykiss aguillarum (pop 5)</i>	Eagle Lake rainbow trout						X												
<i>Oncorhynchus mykiss pop 4</i>	Warner Valley redband trout									X									

APPENDIX D

U.S. Fish and Wildlife Service Species List for Proposed Southern California Edison Relicensing Seven Big Creek Hydropower Projects FERC Project Nos. 67, 120, 2085, 2175, 2086, 2174, 2017, Fresno and Madera Counties, California



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Sacramento Fish and Wildlife Office
2800 Cottage Way, Room W2605
Sacramento, California 95825

IN REPLY REFER TO:

1-1-03-SP-0158

October 29, 2002

Lourraine Tigas,
Senior Staff Biologist
ENTRIX, Inc.
7919 Folsom Boulevard, Suite 100
Sacramento, California 95826

Subject: Species List for Proposed Southern California Edison Relicensing Seven Big Creek Hydropower Projects FERC Project Nos. 67, 120, 2085, 2175, 2086, 2174, 2017, Fresno and Madera Counties, California

Dear Ms. Tigas:

We are sending the enclosed list in response to your October 9, 2002 request for information about endangered and threatened species (Enclosure A). The list covers the following U.S. Geological Survey 7½ minute quad or quads: 416B Balloon Dome, 416C Kaiser Peak, 416D Mt. Givens, 417A Squaw Dome, 417D Mammoth Pool Dam, 415B Graveyard Peak, 416A Sharktooth Peak, 415C Florence Lake, 395B Ward Mountain, 396A Dogtooth Peak, 396B Huntington Lake, 397A Musick Mountain, 397B Cascadel Point, 398A North Fork, 398D Millerton Lake East, 397C Auberry, 397D Shaver Lake, and 396C Dinkey Creek.

Please read *Important Information About Your Species List* (enclosed). It explains how we made the list and describes your responsibilities under the Endangered Species Act. Please contact Tammy Duke at (916) 414-6556, if you have any questions about the attached list or your responsibilities under the Endangered Species Act. For the fastest response to species list requests, address them to the attention of Species Lists at this address. You may fax requests to 414-6712 or 414-6713. You may also email them to harry_mossman@fws.gov.

Sincerely,

Jan C. Knight
Chief, Endangered Species Division

Enclosures

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. If you requested your list by quad name or number, that is what we used. Otherwise, we used the information you sent us to determine which quad or quads to use.

Animals

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 quad or quads covered by the list. We have also included either a county species list or a list of species in nearby quads. We recommend that you check your project area for these plants. Plants may exist in an area without ever having been detected there.

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 enclosed *Guidelines for Conducting and Reporting Botanical Inventories for Federally Listed, Proposed and Candidate Species*. The results of your surveys should be published in any environmental documents prepared for your project.

State-Listed Species

If a species has been listed as threatened or endangered by the State of California, but not by us nor by the National Marine Fisheries Service, it will appear on your list as a Species of Concern. *However you should contact the California Department of Fish and Game for official information about these species*. Call (916) 322-2493 or write Marketing Manager, California Department of Fish and Game, Natural Diversity Data Base, 1416 Ninth Street, Sacramento, California 95814.

Your Responsibilities Under the Endangered Species Act

All plants and animals identified as *listed* on Enclosure A 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. Maps and 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).

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.

Your list may contain a section called *Species of Concern*. This term includes former *category 2 candidate species* and other plants and animals of concern to the Service and other Federal, State and private conservation agencies and organizations. Some of these species may become candidate species in the future.

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 debited. If you address proposed, candidate and special concern species in your planning, this should not be a problem. We also continually strive to make our information as accurate as possible. Sometimes we learn that a particular species has a different range than we thought. This should not be a problem if you consider the species on the county or surrounding-quad lists that we have enclosed. If you have a long-term project or if your project is delayed, please feel free to contact us about getting a current list. You can also find out the current status of a species by going to the Service's Internet page: www.fws.gov

GUIDELINES FOR CONDUCTING AND REPORTING BOTANICAL INVENTORIES
FOR FEDERALLY LISTED, PROPOSED AND CANDIDATE PLANTS
(September 23, 1996)

These guidelines describe protocols for conducting botanical inventories for federally listed, proposed and candidate plants, and describe minimum standards for reporting results. The Service will use, in part, the information outlined below in determining whether the project under consideration may affect any listed, proposed or candidate plants, and in determining the direct, indirect, and cumulative effects.

Field inventories should be conducted in a manner that will locate listed, proposed, or candidate species (target species) that may be present. The entire project area requires a botanical inventory, except developed agricultural lands. The field investigator(s) should:

1. Conduct inventories at the appropriate times of year when target species are present and identifiable. Inventories will include all potential habitats. Multiple site visits during a field season may be necessary to make observations during the appropriate phenological stage of all target species.
2. If available, use a regional or local reference population to obtain a visual image of the target species and associated habitat(s). If access to reference populations is not available, investigators should study specimens from local herbaria.
3. List every species observed and compile a comprehensive list of vascular plants for the entire project site. Vascular plants need to be identified to a taxonomic level which allows rarity to be determined.
4. Report results of botanical field inventories that include:
 - a. a description of the biological setting, including plant community, topography, soils, potential habitat of target species, and an evaluation of environmental conditions, such as timing or quantity of rainfall, which may influence the performance and expression of target species
 - b. a map of project location showing scale, orientation, project boundaries, parcel size, and map quadrangle name
 - c. survey dates and survey methodology(ies)
 - d. if a reference population is available, provide a written narrative describing the target species reference population(s) used, and date(s) when observations were made
 - e. a comprehensive list of all vascular plants occurring on the project site for each habitat type
 - f. current and historic land uses of the habitat(s) and degree of site alteration
 - g. presence of target species off-site on adjacent parcels, if known

Endangered and Threatened Species that May Occur in
or be Affected by Projects in the Selected Quads Listed Below

Reference File No. 1-1-03-SP-0158

Southern California Edison Relicensing Seven Big Creek Hydropower
Projects FERC Project Nos. 67, 120, 2085, 2175, 2086, 2174, 2017

October 29, 2002

QUAD: 395B WARD MOUNTAIN

Listed Species

Birds

bald eagle, *Haliaeetus leucocephalus* (T)

Fish

delta smelt, *Hypomesus transpacificus* (T)

Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Species of Concern

Mammals

spotted bat, *Euderma maculatum* (SC)

greater western mastiff-bat, *Eumops perotis californicus* (SC)

Pacific fisher, *Martes pennanti pacifica* (SC)

small-footed myotis bat, *Myotis ciliolabrum* (SC)

long-eared myotis bat, *Myotis evotis* (SC)

fringed myotis bat, *Myotis thysanodes* (SC)

long-legged myotis bat, *Myotis volans* (SC)

Yuma myotis bat, *Myotis yumanensis* (SC)

Sierra Nevada red fox, *Vulpes vulpes necator* (CA)

Birds

northern goshawk, *Accipiter gentilis* (SC)

oak titmouse, *Baeolophus inornatus* (SLC)

black tern, *Chlidonias niger* (SC)

American dipper, *Cinclus mexicanus* (SLC)

black swift, *Cypseloides niger* (SC)

little willow flycatcher, *Empidonax traillii brewsteri* (CA)

American peregrine falcon, *Falco peregrinus anatum* (D)

Lewis' woodpecker, *Melanerpes lewis* (SC)

long-billed curlew, *Numenius americanus* (SC)

white-headed woodpecker, *Picoides albolarvatus* (SLC)

rufous hummingbird, *Selasphorus rufus* (SC)

California spotted owl, *Strix occidentalis occidentalis* (SC)

Amphibians

- Yosemite toad, *Bufo canorus* (SC)
- Mount Lyell salamander, *Hydromantes platycephalus* (SC)
- mountain yellow-legged frog, *Rana muscosa* (SC)

Fish

- Kern brook lamprey, *Lampetra hubbsi* (SC)
- longfin smelt, *Spirinchus thaleichthys* (SC)

Invertebrates

- Woolly hydrophorus diving beetle, *Hydroporus hirsutus* (SC)

Plants

- Mono Hot Springs evening-primrose, *Camissonia sierrae ssp. alticola* (SC)
- parasol (=Bolander's) clover, *Trifolium bolanderi* (SC)

QUAD: 396A DOGTOOTH PEAK

Listed Species

Birds

- bald eagle, *Haliaeetus leucocephalus* (T)

Fish

- delta smelt, *Hypomesus transpacificus* (T)
- Lahontan cutthroat trout, *Oncorhynchus (=Salmo) clarki henshawi* (T)
- Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS
- Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Species of Concern

Mammals

- spotted bat, *Euderma maculatum* (SC)
- greater western mastiff-bat, *Eumops perotis californicus* (SC)
- Pacific fisher, *Martes pennanti pacifica* (SC)
- small-footed myotis bat, *Myotis ciliolabrum* (SC)
- long-eared myotis bat, *Myotis evotis* (SC)
- fringed myotis bat, *Myotis thysanodes* (SC)
- long-legged myotis bat, *Myotis volans* (SC)
- Yuma myotis bat, *Myotis yumanensis* (SC)
- Sierra Nevada red fox, *Vulpes vulpes necator* (CA)

Birds

- northern goshawk, *Accipiter gentilis* (SC)
- oak titmouse, *Baeolophus inornatus* (SLC)

black tern, *Chlidonias niger* (SC)
American dipper, *Cinclus mexicanus* (SLC)
black swift, *Cypseloides niger* (SC)
little willow flycatcher, *Empidonax traillii brewsteri* (CA)
American peregrine falcon, *Falco peregrinus anatum* (D)
Lewis' woodpecker, *Melanerpes lewis* (SC)
long-billed curlew, *Numenius americanus* (SC)
white-headed woodpecker, *Picoides albolarvatus* (SLC)
rufous hummingbird, *Selasphorus rufus* (SC)
California spotted owl, *Strix occidentalis occidentalis* (SC)

Reptiles

northwestern pond turtle, *Clemmys marmorata marmorata* (SC)

Amphibians

Yosemite toad, *Bufo canorus* (SC)
Mount Lyell salamander, *Hydromantes platycephalus* (SC)
mountain yellow-legged frog, *Rana muscosa* (SC)

Fish

Kern brook lamprey, *Lampetra hubbsi* (SC)
longfin smelt, *Spirinchus thaleichthys* (SC)

Plants

short-leaved hulsea (=shortleaf alpinegold), *Hulsea brevifolia* (SLC)

QUAD: 396B HUNTINGTON LAKE

Listed Species

Birds

bald eagle, *Haliaeetus leucocephalus* (T)

Fish

delta smelt, *Hypomesus transpacificus* (T)
Lahontan cutthroat trout, *Oncorhynchus (=Salmo) clarki henshawi* (T)
Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS
Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Species of Concern

Mammals

spotted bat, *Euderma maculatum* (SC)
greater western mastiff-bat, *Eumops perotis californicus* (SC)
American (=pine) marten, *Martes americana* (SC)
Pacific fisher, *Martes pennanti pacifica* (SC)

- small-footed myotis bat, *Myotis ciliolabrum* (SC)
- long-eared myotis bat, *Myotis evotis* (SC)
- fringed myotis bat, *Myotis thysanodes* (SC)
- long-legged myotis bat, *Myotis volans* (SC)
- Yuma myotis bat, *Myotis yumanensis* (SC)
- Sierra Nevada red fox, *Vulpes vulpes necator* (CA)

Birds

- northern goshawk, *Accipiter gentilis* (SC)
- short-eared owl, *Asio flammeus* (SC)
- oak titmouse, *Baeolophus inornatus* (SLC)
- Lawrence's goldfinch, *Carduelis lawrencei* (SC)
- black tern, *Chlidonias niger* (SC)
- American dipper, *Cinclus mexicanus* (SLC)
- black swift, *Cypseloides niger* (SC)
- hermit warbler, *Dendroica occidentalis* (SC)
- little willow flycatcher, *Empidonax traillii brewsteri* (CA)
- American peregrine falcon, *Falco peregrinus anatum* (D)
- Lewis' woodpecker, *Melanerpes lewis* (SC)
- long-billed curlew, *Numenius americanus* (SC)
- white-headed woodpecker, *Picoides albolarvatus* (SLC)
- rufous hummingbird, *Selasphorus rufus* (SC)
- California spotted owl, *Strix occidentalis occidentalis* (SC)

Reptiles

- northwestern pond turtle, *Clemmys marmorata marmorata* (SC)
- southwestern pond turtle, *Clemmys marmorata pallida* (SC)

Amphibians

- Mount Lyell salamander, *Hydromantes platycephalus* (SC)

Fish

- Kern brook lamprey, *Lampetra hubbsi* (SC)
- longfin smelt, *Spirinchus thaleichthys* (SC)

Plants

- short-leaved hulsea (=shortleaf alpinegold), *Hulsea brevifolia* (SLC)
- Madera linanthus, *Linanthus serrulatus* (SLC)

QUAD: 396C DINKEY CREEK

Listed Species

Birds

bald eagle, *Haliaeetus leucocephalus* (T)

Fish

delta smelt, *Hypomesus transpacificus* (T)

Lahontan cutthroat trout, *Oncorhynchus (=Salmo) clarki henshawi* (T)

Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Species of Concern

Mammals

spotted bat, *Euderma maculatum* (SC)

greater western mastiff-bat, *Eumops perotis californicus* (SC)

American (=pine) marten, *Martes americana* (SC)

Pacific fisher, *Martes pennanti pacifica* (SC)

small-footed myotis bat, *Myotis ciliolabrum* (SC)

long-eared myotis bat, *Myotis evotis* (SC)

fringed myotis bat, *Myotis thysanodes* (SC)

long-legged myotis bat, *Myotis volans* (SC)

Yuma myotis bat, *Myotis yumanensis* (SC)

Sierra Nevada red fox, *Vulpes vulpes necator* (CA)

Birds

northern goshawk, *Accipiter gentilis* (SC)

grasshopper sparrow, *Ammodramus savannarum* (SC)

short-eared owl, *Asio flammeus* (SC)

oak titmouse, *Baeolophus inornatus* (SLC)

Costa's hummingbird, *Calypte costae* (SC)

Lawrence's goldfinch, *Carduelis lawrencei* (SC)

Vaux's swift, *Chaetura vauxi* (SC)

black tern, *Chlidonias niger* (SC)

American dipper, *Cinclus mexicanus* (SLC)

black swift, *Cypseloides niger* (SC)

hermit warbler, *Dendroica occidentalis* (SC)

little willow flycatcher, *Empidonax traillii brewsteri* (CA)

American peregrine falcon, *Falco peregrinus anatum* (D)

Lewis' woodpecker, *Melanerpes lewis* (SC)

long-billed curlew, *Numenius americanus* (SC)

white-headed woodpecker, *Picoides albolarvatus* (SLC)
rufous hummingbird, *Selasphorus rufus* (SC)
California spotted owl, *Strix occidentalis occidentalis* (SC)
California thrasher, *Toxostoma redivivum* (SC)

Reptiles

southwestern pond turtle, *Clemmys marmorata pallida* (SC)

Amphibians

Mount Lyell salamander, *Hydromantes platycephalus* (SC)
foothill yellow-legged frog, *Rana boylei* (SC)

Fish

Kern brook lamprey, *Lampetra hubbsi* (SC)
longfin smelt, *Spirinchus thaleichthys* (SC)

Plants

carpenteria, *Carpenteria californica* (CA)
orange lupine, *Lupinus citrinus var. citrinus* (SC)

QUAD: 397A MUSICK MTN.

Listed Species

Birds

bald eagle, *Haliaeetus leucocephalus* (T)

Amphibians

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

Fish

delta smelt, *Hypomesus transpacificus* (T)
Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS
Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Species of Concern

Mammals

spotted bat, *Euderma maculatum* (SC)
greater western mastiff-bat, *Eumops perotis californicus* (SC)
American (=pine) marten, *Martes americana* (SC)
Pacific fisher, *Martes pennanti pacifica* (SC)
small-footed myotis bat, *Myotis ciliolabrum* (SC)
long-eared myotis bat, *Myotis evotis* (SC)
fringed myotis bat, *Myotis thysanodes* (SC)
long-legged myotis bat, *Myotis volans* (SC)

Yuma myotis bat, *Myotis yumanensis* (SC)
Sierra Nevada red fox, *Vulpes vulpes necator* (CA)

Birds

northern goshawk, *Accipiter gentilis* (SC)
grasshopper sparrow, *Ammodramus savannarum* (SC)
short-eared owl, *Asio flammeus* (SC)
oak titmouse, *Baeolophus inornatus* (SLC)
Costa's hummingbird, *Calypte costae* (SC)
Lawrence's goldfinch, *Carduelis lawrencei* (SC)
Vaux's swift, *Chaetura vauxi* (SC)
black tern, *Chlidonias niger* (SC)
American dipper, *Cinclus mexicanus* (SLC)
black swift, *Cypseloides niger* (SC)
hermit warbler, *Dendroica occidentalis* (SC)
little willow flycatcher, *Empidonax traillii brewsteri* (CA)
American peregrine falcon, *Falco peregrinus anatum* (D)
Lewis' woodpecker, *Melanerpes lewis* (SC)
long-billed curlew, *Numenius americanus* (SC)
white-headed woodpecker, *Picoides albolarvatus* (SLC)
rufous hummingbird, *Selasphorus rufus* (SC)
California spotted owl, *Strix occidentalis occidentalis* (SC)
California thrasher, *Toxostoma redivivum* (SC)

Reptiles

northwestern pond turtle, *Clemmys marmorata marmorata* (SC)
southwestern pond turtle, *Clemmys marmorata pallida* (SC)

Amphibians

Mount Lyell salamander, *Hydromantes platycephalus* (SC)

Fish

Kern brook lamprey, *Lampetra hubbsi* (SC)
longfin smelt, *Spirinchus thaleichthys* (SC)

Invertebrates

Bohart's blue butterfly, *Philotiella speciosa bohartorum* (SC)
Sierra pygmy grasshopper, *Tetrix sierrana* (SC)

Plants

Rawson's flaming-trumpet, *Collomia rawsoniana* (SC)
delta tule-pea, *Lathyrus jepsonii var. jepsonii* (SC)

orange lupine, *Lupinus citrinus var. citrinus* (SC)

QUAD: 397B CASCADDEL POINT

Listed Species

Birds

bald eagle, *Haliaeetus leucocephalus* (T)

Amphibians

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

Fish

delta smelt, *Hypomesus transpacificus* (T)

Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS

Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Species of Concern

Mammals

spotted bat, *Euderma maculatum* (SC)

greater western mastiff-bat, *Eumops perotis californicus* (SC)

Pacific fisher, *Martes pennanti pacifica* (SC)

small-footed myotis bat, *Myotis ciliolabrum* (SC)

long-eared myotis bat, *Myotis evotis* (SC)

fringed myotis bat, *Myotis thysanodes* (SC)

long-legged myotis bat, *Myotis volans* (SC)

Yuma myotis bat, *Myotis yumanensis* (SC)

Sierra Nevada red fox, *Vulpes vulpes necator* (CA)

Birds

northern goshawk, *Accipiter gentilis* (SC)

tricolored blackbird, *Agelaius tricolor* (SC)

grasshopper sparrow, *Ammodramus savannarum* (SC)

short-eared owl, *Asio flammeus* (SC)

western burrowing owl, *Athene cunicularia hypugaea* (SC)

oak titmouse, *Baeolophus inornatus* (SLC)

Costa's hummingbird, *Calypte costae* (SC)

Lawrence's goldfinch, *Carduelis lawrencei* (SC)

Vaux's swift, *Chaetura vauxi* (SC)

black tern, *Chlidonias niger* (SC)

American dipper, *Cinclus mexicanus* (SLC)

black swift, *Cypseloides niger* (SC)

hermit warbler, *Dendroica occidentalis* (SC)

little willow flycatcher, *Empidonax traillii brewsteri* (CA)
American peregrine falcon, *Falco peregrinus anatum* (D)
loggerhead shrike, *Lanius ludovicianus* (SC)
Lewis' woodpecker, *Melanerpes lewis* (SC)
long-billed curlew, *Numenius americanus* (SC)
Nuttall's woodpecker, *Picoides nuttallii* (SLC)
rufous hummingbird, *Selasphorus rufus* (SC)
California spotted owl, *Strix occidentalis occidentalis* (SC)
California thrasher, *Toxostoma redivivum* (SC)

Reptiles

northwestern pond turtle, *Clemmys marmorata marmorata* (SC)
southwestern pond turtle, *Clemmys marmorata pallida* (SC)

Amphibians

foothill yellow-legged frog, *Rana boyllii* (SC)

Fish

Kern brook lamprey, *Lampetra hubbsi* (SC)
longfin smelt, *Spirinchus thaleichthys* (SC)

Invertebrates

Bohart's blue butterfly, *Philotiella speciosa bohartorum* (SC)
Sierra pygmy grasshopper, *Tetrix sierrana* (SC)

Plants

carpenteria, *Carpenteria californica* (CA)
Rawson's flaming-trumpet, *Collomia rawsoniana* (SC)
orange lupine, *Lupinus citrinus var. citrinus* (SC)

QUAD: 397C AUBERRY

Listed Species

Mammals

Fresno kangaroo rat, *Dipodomys nitratooides exilis* (E)

Birds

bald eagle, *Haliaeetus leucocephalus* (T)

Amphibians

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

Fish

delta smelt, *Hypomesus transpacificus* (T)
Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Invertebrates

valley elderberry longhorn beetle, *Desmocerus californicus dimorphus* (T)

Plants

Mariposa pussy-paws, *Calyptridium pulchellum* (T)

Species of Concern

Mammals

Pacific western big-eared bat, *Corynorhinus (=Plecotus) townsendii townsendii* (SC)

spotted bat, *Euderma maculatum* (SC)

greater western mastiff-bat, *Eumops perotis californicus* (SC)

American (=pine) marten, *Martes americana* (SC)

small-footed myotis bat, *Myotis ciliolabrum* (SC)

long-eared myotis bat, *Myotis evotis* (SC)

fringed myotis bat, *Myotis thysanodes* (SC)

long-legged myotis bat, *Myotis volans* (SC)

Yuma myotis bat, *Myotis yumanensis* (SC)

Sierra Nevada red fox, *Vulpes vulpes necator* (CA)

Birds

northern goshawk, *Accipiter gentilis* (SC)

tricolored blackbird, *Agelaius tricolor* (SC)

grasshopper sparrow, *Ammodramus savannarum* (SC)

short-eared owl, *Asio flammeus* (SC)

western burrowing owl, *Athene cunicularia hypugaea* (SC)

oak titmouse, *Baeolophus inornatus* (SLC)

Costa's hummingbird, *Calypte costae* (SC)

Lawrence's goldfinch, *Carduelis lawrencei* (SC)

Vaux's swift, *Chaetura vauxi* (SC)

black tern, *Chlidonias niger* (SC)

black swift, *Cypseloides niger* (SC)

hermit warbler, *Dendroica occidentalis* (SC)

little willow flycatcher, *Empidonax traillii brewsteri* (CA)

American peregrine falcon, *Falco peregrinus anatum* (D)

loggerhead shrike, *Lanius ludovicianus* (SC)

Lewis' woodpecker, *Melanerpes lewis* (SC)

long-billed curlew, *Numerius americanus* (SC)

Nuttall's woodpecker, *Picoides nuttallii* (SLC)

rufous hummingbird, *Selasphorus rufus* (SC)

California spotted owl, *Strix occidentalis occidentalis* (SC)

California thrasher, *Toxostoma redivivum* (SC)

Reptiles

northwestern pond turtle, *Clemmys marmorata marmorata* (SC)

southwestern pond turtle, *Clemmys marmorata pallida* (SC)

California horned lizard, *Phrynosoma coronatum frontale* (SC)

Amphibians

foothill yellow-legged frog, *Rana boylei* (SC)

Fish

Kern brook lamprey, *Lampetra hubbsi* (SC)

longfin smelt, *Spirinchus thaleichthys* (SC)

Invertebrates

Dry Creek cliff strider bug, *Oravelia pege* (SC)

Bohart's blue butterfly, *Philotiella speciosa bohartorum* (SC)

Sierra pygmy grasshopper, *Tetrix sierrana* (SC)

Plants

carpenteria, *Carpenteria californica* (CA)

orange lupine, *Lupinus citrinus var. citrinus* (SC)

slender-stalked monkeyflower, *Mimulus gracilipes* (SLC)

QUAD: 397D SHAVER LAKE

Listed Species

Birds

bald eagle, *Haliaeetus leucocephalus* (T)

Amphibians

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

Fish

delta smelt, *Hypomesus transpacificus* (T)

Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Species of Concern

Mammals

spotted bat, *Euderma maculatum* (SC)

greater western mastiff-bat, *Eumops perotis californicus* (SC)

American (=pine) marten, *Martes americana* (SC)

Pacific fisher, *Martes pennanti pacifica* (SC)

small-footed myotis bat, *Myotis ciliolabrum* (SC)

- long-eared myotis bat, *Myotis evotis* (SC)
- fringed myotis bat, *Myotis thysanodes* (SC)
- long-legged myotis bat, *Myotis volans* (SC)
- Yuma myotis bat, *Myotis yumanensis* (SC)
- Sierra Nevada red fox, *Vulpes vulpes necator* (CA)

Birds

- northern goshawk, *Accipiter gentilis* (SC)
- tricolored blackbird, *Agelaius tricolor* (SC)
- grasshopper sparrow, *Ammodramus savannarum* (SC)
- short-eared owl, *Asio flammeus* (SC)
- western burrowing owl, *Athene cunicularia hypugaea* (SC)
- oak titmouse, *Baeolophus inornatus* (SLC)
- Costa's hummingbird, *Calypte costae* (SC)
- Lawrence's goldfinch, *Carduelis lawrencei* (SC)
- Vaux's swift, *Chaetura vauxi* (SC)
- black tern, *Chlidonias niger* (SC)
- American dipper, *Cinclus mexicanus* (SLC)
- black swift, *Cypseloides niger* (SC)
- hermit warbler, *Dendroica occidentalis* (SC)
- little willow flycatcher, *Empidonax traillii brewsteri* (CA)
- American peregrine falcon, *Falco peregrinus anatum* (D)
- Lewis' woodpecker, *Melanerpes lewis* (SC)
- long-billed curlew, *Numenius americanus* (SC)
- Nuttall's woodpecker, *Picoides nuttallii* (SLC)
- rufous hummingbird, *Selasphorus rufus* (SC)
- California spotted owl, *Strix occidentalis occidentalis* (SC)
- California thrasher, *Toxostoma redivivum* (SC)

Reptiles

- northwestern pond turtle, *Clemmys marmorata marmorata* (SC)
- southwestern pond turtle, *Clemmys marmorata pallida* (SC)

Amphibians

- foothill yellow-legged frog, *Rana boylei* (SC)

Fish

- Kern brook lamprey, *Lampetra hubbsi* (SC)
- longfin smelt, *Spirinchus thaleichthys* (SC)

Invertebrates

Dry Creek cliff strider bug, *Oravelia pege* (SC)

Plants

carpenteria, *Carpenteria californica* (CA)

Yosemite lewisia, *Lewisia disepala* (SC)

orange lupine, *Lupinus citrinus var. citrinus* (SC)

QUAD: 398A NORTH FORK

Listed Species

Birds

bald eagle, *Haliaeetus leucocephalus* (T)

Amphibians

California tiger salamander, *Ambystoma californiense* (C/E)

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

Fish

delta smelt, *Hypomesus transpacificus* (T)

Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS

Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Invertebrates

valley elderberry longhorn beetle, *Desmocerus californicus dimorphus* (T)

Proposed Species

Invertebrates

Critical habitat, vernal pool invertebrates, See *Federal Register* 67:59883 (PX)

Plants

Critical habitat, vernal pool plants, See *Federal Register* 67:59883 (PX)

Species of Concern

Mammals

Pacific western big-eared bat, *Corynorhinus (=Plecotus) townsendii townsendii* (SC)

spotted bat, *Euderma maculatum* (SC)

greater western mastiff-bat, *Eumops perotis californicus* (SC)

American (=pine) marten, *Martes americana* (SC)

small-footed myotis bat, *Myotis ciliolabrum* (SC)

long-eared myotis bat, *Myotis evotis* (SC)

fringed myotis bat, *Myotis thysanodes* (SC)

long-legged myotis bat, *Myotis volans* (SC)

Yuma myotis bat, *Myotis yumanensis* (SC)

Southern grasshopper mouse, *Onychomys torridus ramona* (SC)

San Joaquin pocket mouse, *Perognathus inornatus* (SC)

Birds

northern goshawk, *Accipiter gentilis* (SC)
tricolored blackbird, *Agelaius tricolor* (SC)
grasshopper sparrow, *Ammodramus savannarum* (SC)
short-eared owl, *Asio flammeus* (SC)
western burrowing owl, *Athene cunicularia hypugaea* (SC)
oak titmouse, *Baeolophus inornatus* (SLC)
Costa's hummingbird, *Calypte costae* (SC)
Lawrence's goldfinch, *Carduelis lawrencei* (SC)
Vaux's swift, *Chaetura vauxi* (SC)
black tern, *Chlidonias niger* (SC)
black swift, *Cypseloides niger* (SC)
hermit warbler, *Dendroica occidentalis* (SC)
little willow flycatcher, *Empidonax traillii brewsteri* (CA)
American peregrine falcon, *Falco peregrinus anatum* (D)
loggerhead shrike, *Lanius ludovicianus* (SC)
Lewis' woodpecker, *Melanerpes lewis* (SC)
long-billed curlew, *Numenius americanus* (SC)
Nuttall's woodpecker, *Picoides nuttallii* (SLC)
rufous hummingbird, *Selasphorus rufus* (SC)
California thrasher, *Toxostoma redivivum* (SC)

Reptiles

northwestern pond turtle, *Clemmys marmorata marmorata* (SC)
southwestern pond turtle, *Clemmys marmorata pallida* (SC)
California horned lizard, *Phrynosoma coronatum frontale* (SC)

Amphibians

foothill yellow-legged frog, *Rana boylei* (SC)

Fish

longfin smelt, *Spirinchus thaleichthys* (SC)

Invertebrates

molestan blister beetle, *Lytta molesta* (SC)
Bohart's blue butterfly, *Philotiella speciosa bohartorum* (SC)
Sierra pygmy grasshopper, *Tetrix sierrana* (SC)

Plants

carpenteria, *Carpenteria californica* (CA)

Boggs Lake hedge-hyssop, *Gratiola heterosepala* (CA)

QUAD: 398D MILLERTON LAKE EAST

Listed Species

Mammals

Fresno kangaroo rat, *Dipodomys nitratooides exilis* (E)

Birds

bald eagle, *Haliaeetus leucocephalus* (T)

Reptiles

blunt-nosed leopard lizard, *Gambelia (=Crotaphytus) sila* (E)

Amphibians

California tiger salamander, *Ambystoma californiense* (C/E)

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

Fish

delta smelt, *Hypomesus transpacificus* (T)

Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS

Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Invertebrates

vernal pool fairy shrimp, *Branchinecta lynchi* (T)

valley elderberry longhorn beetle, *Desmocerus californicus dimorphus* (T)

Plants

succulent (=fleshy) owl's-clover, *Castilleja campestris ssp. succulenta* (T)

San Joaquin Valley Orcutt grass, *Orcuttia inaequalis* (T)

Proposed Species

Invertebrates

Critical habitat, vernal pool invertebrates, See *Federal Register* 67:59883 (PX)

Plants

Critical habitat, vernal pool plants, See *Federal Register* 67:59883 (PX)

Species of Concern

Mammals

Pacific western big-eared bat, *Corynorhinus (=Plecotus) townsendii townsendii* (SC)

spotted bat, *Euderma maculatum* (SC)

greater western mastiff-bat, *Eumops perotis californicus* (SC)

small-footed myotis bat, *Myotis ciliolabrum* (SC)

long-eared myotis bat, *Myotis evotis* (SC)

fringed myotis bat, *Myotis thysanodes* (SC)

long-legged myotis bat, *Myotis volans* (SC)
Yuma myotis bat, *Myotis yumanensis* (SC)
Southern grasshopper mouse, *Onychomys torridus ramona* (SC)
San Joaquin pocket mouse, *Perognathus inornatus* (SC)

Birds

northern goshawk, *Accipiter gentilis* (SC)
tricolored blackbird, *Agelaius tricolor* (SC)
grasshopper sparrow, *Ammodramus savannarum* (SC)
short-eared owl, *Asio flammeus* (SC)
western burrowing owl, *Athene cunicularia hypugaea* (SC)
oak titmouse, *Baeolophus inornatus* (SLC)
Costa's hummingbird, *Calypte costae* (SC)
Lawrence's goldfinch, *Carduelis lawrencei* (SC)
Vaux's swift, *Chaetura vauxi* (SC)
black tern, *Chlidonias niger* (SC)
black swift, *Cypseloides niger* (SC)
hermit warbler, *Dendroica occidentalis* (SC)
little willow flycatcher, *Empidonax traillii brewsteri* (CA)
American peregrine falcon, *Falco peregrinus anatum* (D)
loggerhead shrike, *Lanius ludovicianus* (SC)
Lewis' woodpecker, *Melanerpes lewis* (SC)
long-billed curlew, *Numenius americanus* (SC)
Nuttall's woodpecker, *Picoides nuttallii* (SLC)
rufous hummingbird, *Selasphorus rufus* (SC)
California thrasher, *Toxostoma redivivum* (SC)

Reptiles

northwestern pond turtle, *Clemmys marmorata marmorata* (SC)
southwestern pond turtle, *Clemmys marmorata pallida* (SC)
California horned lizard, *Phrynosoma coronatum frontale* (SC)

Amphibians

foothill yellow-legged frog, *Rana boylei* (SC)

Fish

green sturgeon, *Acipenser medirostris* (SC)
Kern brook lamprey, *Lampetra hubbsi* (SC)
longfin smelt, *Spirinchus thaleichthys* (SC)

Invertebrates

Midvalley fairy shrimp, *Branchinecta mesovallensis* (SC)
San Joaquin tiger beetle, *Cicindela tranquebarica* ssp. (SC)
California linderiella fairy shrimp, *Linderiella occidentalis* (SC)
molestan blister beetle, *Lytta molesta* (SC)
Bohart's blue butterfly, *Philotiella speciosa bohartorum* (SC)
Sierra pygmy grasshopper, *Tetrix sierrana* (SC)

Plants

Boggs Lake hedge-hyssop, *Gratiola heterosepala* (CA)

QUAD: 415B GRAVEYARD PEAK

Listed Species

Mammals

Sierra Nevada (=California) bighorn sheep, *Ovis canadensis californiana* (E)

Birds

bald eagle, *Haliaeetus leucocephalus* (T)

Fish

delta smelt, *Hypomesus transpacificus* (T)

Paiute cutthroat trout, *Oncorhynchus* (=Salmo) *clarki seleniris* (T)

Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS

Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Species of Concern

Mammals

spotted bat, *Euderma maculatum* (SC)

Pacific fisher, *Martes pennanti pacifica* (SC)

small-footed myotis bat, *Myotis ciliolabrum* (SC)

long-eared myotis bat, *Myotis evotis* (SC)

fringed myotis bat, *Myotis thysanodes* (SC)

long-legged myotis bat, *Myotis volans* (SC)

Yuma myotis bat, *Myotis yumanensis* (SC)

Mt. Lyell shrew, *Sorex lyelli* (SC)

Sierra Nevada red fox, *Vulpes vulpes necator* (CA)

Birds

northern goshawk, *Accipiter gentilis* (SC)

oak titmouse, *Baeolophus inornatus* (SLC)

black tern, *Chlidonias niger* (SC)

American dipper, *Cinclus mexicanus* (SLC)

black swift, *Cypseloides niger* (SC)

little willow flycatcher, *Empidonax traillii brewsteri* (CA)
American peregrine falcon, *Falco peregrinus anatum* (D)
Lewis' woodpecker, *Melanerpes lewis* (SC)
long-billed curlew, *Numenius americanus* (SC)
white-headed woodpecker, *Picoides albolarvatus* (SLC)
rufous hummingbird, *Selasphorus rufus* (SC)
California spotted owl, *Strix occidentalis occidentalis* (SC)

Amphibians

Yosemite toad, *Bufo canorus* (SC)
Mount Lyell salamander, *Hydromantes platycephalus* (SC)
mountain yellow-legged frog, *Rana muscosa* (SC)

Fish

longfin smelt, *Spirinchus thaleichthys* (SC)

Plants

Mono Hot Springs evening-primrose, *Camissonia sierrae ssp. alticola* (SC)

QUAD: 415C FLORENCE LAKE

Listed Species

Mammals

Sierra Nevada (=California) bighorn sheep, *Ovis canadensis californiana* (E)

Birds

bald eagle, *Haliaeetus leucocephalus* (T)

Fish

delta smelt, *Hypomesus transpacificus* (T)
Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS
Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Species of Concern

Mammals

spotted bat, *Euderma maculatum* (SC)
Pacific fisher, *Martes pennanti pacifica* (SC)
small-footed myotis bat, *Myotis ciliolabrum* (SC)
long-eared myotis bat, *Myotis evotis* (SC)
fringed myotis bat, *Myotis thysanodes* (SC)
long-legged myotis bat, *Myotis volans* (SC)
Yuma myotis bat, *Myotis yumanensis* (SC)
Sierra Nevada red fox, *Vulpes vulpes necator* (CA)

Birds

- northern goshawk, *Accipiter gentilis* (SC)
- oak titmouse, *Baeolophus inornatus* (SLC)
- black tern, *Chlidonias niger* (SC)
- American dipper, *Cinclus mexicanus* (SLC)
- black swift, *Cypseloides niger* (SC)
- little willow flycatcher, *Empidonax traillii brewsteri* (CA)
- American peregrine falcon, *Falco peregrinus anatum* (D)
- Lewis' woodpecker, *Melanerpes lewis* (SC)
- long-billed curlew, *Numenius americanus* (SC)
- white-headed woodpecker, *Picoides albolarvatus* (SLC)
- rufous hummingbird, *Selasphorus rufus* (SC)
- California spotted owl, *Strix occidentalis occidentalis* (SC)

Amphibians

- Yosemite toad, *Bufo canorus* (SC)
- Mount Lyell salamander, *Hydromantes platycephalus* (SC)
- mountain yellow-legged frog, *Rana muscosa* (SC)

Fish

- longfin smelt, *Spirinchus thaleichthys* (SC)

Plants

- Mono Hot Springs evening-primrose, *Camissonia sierrae ssp. alticola* (SC)

QUAD: 416A SHARKTOOTH PEAK

Listed Species

Mammals

- Sierra Nevada (=California) bighorn sheep, *Ovis canadensis californiana* (E)

Birds

- bald eagle, *Haliaeetus leucocephalus* (T)

Fish

- delta smelt, *Hypomesus transpacificus* (T)
- Paiute cutthroat trout, *Oncorhynchus (=Salmo) clarki seleniris* (T)
- Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS
- Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Species of Concern

Mammals

- spotted bat, *Euderma maculatum* (SC)

Pacific fisher, *Martes pennanti pacifica* (SC)
 small-footed myotis bat, *Myotis ciliolabrum* (SC)
 long-eared myotis bat, *Myotis evotis* (SC)
 fringed myotis bat, *Myotis thysanodes* (SC)
 long-legged myotis bat, *Myotis volans* (SC)
 Yuma myotis bat, *Myotis yumanensis* (SC)
 Mt. Lyell shrew, *Sorex lyelli* (SC)
 Sierra Nevada red fox, *Vulpes vulpes necator* (CA)

Birds

northern goshawk, *Accipiter gentilis* (SC)
 oak titmouse, *Baeolophus inornatus* (SLC)
 black tern, *Chlidonias niger* (SC)
 American dipper, *Cinclus mexicanus* (SLC)
 black swift, *Cypseloides niger* (SC)
 little willow flycatcher, *Empidonax traillii brewsteri* (CA)
 American peregrine falcon, *Falco peregrinus anatum* (D)
 Lewis' woodpecker, *Melanerpes lewis* (SC)
 long-billed curlew, *Numenius americanus* (SC)
 white-headed woodpecker, *Picoides albolarvatus* (SLC)
 rufous hummingbird, *Selasphorus rufus* (SC)
 California spotted owl, *Strix occidentalis occidentalis* (SC)

Amphibians

Yosemite toad, *Bufo canorus* (SC)
 Mount Lyell salamander, *Hydromantes platycephalus* (SC)
 mountain yellow-legged frog, *Rana muscosa* (SC)

Fish

longfin smelt, *Spirinchus thaleichthys* (SC)

QUAD: 416B BALLOON DOME

Listed Species

Birds

bald eagle, *Haliaeetus leucocephalus* (T)

Fish

delta smelt, *Hypomesus transpacificus* (T)
 Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS
 Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Species of Concern

Mammals

- spotted bat, *Euderma maculatum* (SC)
- Pacific fisher, *Martes pennanti pacifica* (SC)
- small-footed myotis bat, *Myotis ciliolabrum* (SC)
- long-eared myotis bat, *Myotis evotis* (SC)
- fringed myotis bat, *Myotis thysanodes* (SC)
- long-legged myotis bat, *Myotis volans* (SC)
- Yuma myotis bat, *Myotis yumanensis* (SC)
- Mt. Lyell shrew, *Sorex lyelli* (SC)
- Sierra Nevada red fox, *Vulpes vulpes necator* (CA)

Birds

- northern goshawk, *Accipiter gentilis* (SC)
- oak titmouse, *Baeolophus inornatus* (SLC)
- black tern, *Chlidonias niger* (SC)
- American dipper, *Cinclus mexicanus* (SLC)
- black swift, *Cypseloides niger* (SC)
- little willow flycatcher, *Empidonax traillii brewsteri* (CA)
- American peregrine falcon, *Falco peregrinus anatum* (D)
- Lewis' woodpecker, *Melanerpes lewis* (SC)
- long-billed curlew, *Numenius americanus* (SC)
- white-headed woodpecker, *Picoides albolarvatus* (SLC)
- rufous hummingbird, *Selasphorus rufus* (SC)
- California spotted owl, *Strix occidentalis occidentalis* (SC)

Amphibians

- Yosemite toad, *Bufo canorus* (SC)
- Mount Lyell salamander, *Hydromantes platycephalus* (SC)
- mountain yellow-legged frog, *Rana muscosa* (SC)

Fish

- longfin smelt, *Spirinchus thaleichthys* (SC)

Plants

- Yosemite lewisia, *Lewisia disepala* (SC)

QUAD: 416C KAISER PEAK

Listed Species

Birds

- bald eagle, *Haliaeetus leucocephalus* (T)

Fish

- delta smelt, *Hypomesus transpacificus* (T)
- Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS
- Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Species of Concern

Mammals

- spotted bat, *Euderma maculatum* (SC)
- greater western mastiff-bat, *Eumops perotis californicus* (SC)
- American (=pine) marten, *Martes americana* (SC)
- Pacific fisher, *Martes pennanti pacifica* (SC)
- small-footed myotis bat, *Myotis ciliolabrum* (SC)
- long-eared myotis bat, *Myotis evotis* (SC)
- fringed myotis bat, *Myotis thysanodes* (SC)
- long-legged myotis bat, *Myotis volans* (SC)
- Yuma myotis bat, *Myotis yumanensis* (SC)
- Sierra Nevada red fox, *Vulpes vulpes necator* (CA)

Birds

- northern goshawk, *Accipiter gentilis* (SC)
- oak titmouse, *Baeolophus inornatus* (SLC)
- black tern, *Chlidonias niger* (SC)
- American dipper, *Cinclus mexicanus* (SLC)
- black swift, *Cypseloides niger* (SC)
- little willow flycatcher, *Empidonax traillii brewsteri* (CA)
- American peregrine falcon, *Falco peregrinus anatum* (D)
- Lewis' woodpecker, *Melanerpes lewis* (SC)
- long-billed curlew, *Numenius americanus* (SC)
- white-headed woodpecker, *Picoides albolarvatus* (SLC)
- rufous hummingbird, *Selasphorus rufus* (SC)
- California spotted owl, *Strix occidentalis occidentalis* (SC)

Amphibians

- Yosemite toad, *Bufo canorus* (SC)
- Mount Lyell salamander, *Hydromantes platycephalus* (SC)
- mountain yellow-legged frog, *Rana muscosa* (SC)

Fish

- longfin smelt, *Spirinchus thaleichthys* (SC)

Plants

short-leaved hulsea (=shortleaf alpinegold), *Hulsea brevifolia* (SLC)

QUAD: 416D MT. GIVENS

Listed Species

Birds

bald eagle, *Haliaeetus leucocephalus* (T)

Fish

delta smelt, *Hypomesus transpacificus* (T)

Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS

Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Species of Concern

Mammals

spotted bat, *Euderma maculatum* (SC)

Pacific fisher, *Martes pennanti pacifica* (SC)

small-footed myotis bat, *Myotis ciliolabrum* (SC)

long-eared myotis bat, *Myotis evotis* (SC)

fringed myotis bat, *Myotis thysanodes* (SC)

long-legged myotis bat, *Myotis volans* (SC)

Yuma myotis bat, *Myotis yumanensis* (SC)

Sierra Nevada red fox, *Vulpes vulpes necator* (CA)

Birds

northern goshawk, *Accipiter gentilis* (SC)

oak titmouse, *Baeolophus inornatus* (SLC)

black tern, *Chlidonias niger* (SC)

American dipper, *Cinclus mexicanus* (SLC)

black swift, *Cypseloides niger* (SC)

little willow flycatcher, *Empidonax traillii brewsteri* (CA)

American peregrine falcon, *Falco peregrinus anatum* (D)

Lewis' woodpecker, *Melanerpes lewis* (SC)

long-billed curlew, *Numenius americanus* (SC)

white-headed woodpecker, *Picoides albolarvatus* (SLC)

rufous hummingbird, *Selasphorus rufus* (SC)

California spotted owl, *Strix occidentalis occidentalis* (SC)

Amphibians

Yosemite toad, *Bufo canorus* (SC)

Mount Lyell salamander, *Hydromantes platycephalus* (SC)
mountain yellow-legged frog, *Rana muscosa* (SC)

Fish

longfin smelt, *Spirinchus thaleichthys* (SC)

Plants

Mono Hot Springs evening-primrose, *Camissonia sierrae ssp. alticola* (SC)

QUAD: 417A SQUAW DOME

Listed Species

Birds

bald eagle, *Haliaeetus leucocephalus* (T)

Fish

delta smelt, *Hypomesus transpacificus* (T)

Lahontan cutthroat trout, *Oncorhynchus (=Salmo) clarki henshawi* (T)

Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS

Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Species of Concern

Mammals

spotted bat, *Euderma maculatum* (SC)

greater western mastiff-bat, *Eumops perotis californicus* (SC)

California wolverine, *Gulo gulo luteus* (CA)

American (=pine) marten, *Martes americana* (SC)

Pacific fisher, *Martes pennanti pacifica* (SC)

small-footed myotis bat, *Myotis ciliolabrum* (SC)

long-eared myotis bat, *Myotis evotis* (SC)

fringed myotis bat, *Myotis thysanodes* (SC)

long-legged myotis bat, *Myotis volans* (SC)

Yuma myotis bat, *Myotis yumanensis* (SC)

Sierra Nevada red fox, *Vulpes vulpes necator* (CA)

Birds

northern goshawk, *Accipiter gentilis* (SC)

oak titmouse, *Baeolophus inornatus* (SLC)

black tern, *Chlidonias niger* (SC)

American dipper, *Cinclus mexicanus* (SLC)

black swift, *Cypseloides niger* (SC)

little willow flycatcher, *Empidonax traillii brewsteri* (CA)

American peregrine falcon, *Falco peregrinus anatum* (D)

Lewis' woodpecker, *Melanerpes lewis* (SC)
long-billed curlew, *Numenius americanus* (SC)
white-headed woodpecker, *Picoides albolarvatus* (SLC)
rufous hummingbird, *Selasphorus rufus* (SC)
California spotted owl, *Strix occidentalis occidentalis* (SC)

Amphibians

Yosemite toad, *Bufo canorus* (SC)
Mount Lyell salamander, *Hydromantes platycephalus* (SC)
mountain yellow-legged frog, *Rana muscosa* (SC)

Fish

longfin smelt, *Spirinchus thaleichthys* (SC)

Invertebrates

Leech's skyline diving beetle, *Hydroporus leechi* (SC)
Bohart's blue butterfly, *Philotiella speciosa bohartorum* (SC)
Sierra pygmy grasshopper, *Tetrix sierrana* (SC)

Plants

Mono Hot Springs evening-primrose, *Camissonia sierrae ssp. alticola* (SC)
Yosemite lewisia, *Lewisia disepala* (SC)
parasol (=Bolander's) clover, *Trifolium bolanderi* (SC)

QUAD: 417D MAMMOTH POOL DAM

Listed Species

Birds

bald eagle, *Haliaeetus leucocephalus* (T)

Fish

delta smelt, *Hypomesus transpacificus* (T)
Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS
Sacramento splittail, *Pogonichthys macrolepidotus* (T)

Species of Concern

Mammals

spotted bat, *Euderma maculatum* (SC)
greater western mastiff-bat, *Eumops perotis californicus* (SC)
California wolverine, *Gulo gulo luteus* (CA)
American (=pine) marten, *Martes americana* (SC)
Pacific fisher, *Martes pennanti pacifica* (SC)
small-footed myotis bat, *Myotis ciliolabrum* (SC)

long-eared myotis bat, *Myotis evotis* (SC)
fringed myotis bat, *Myotis thysanodes* (SC)
long-legged myotis bat, *Myotis volans* (SC)
Yuma myotis bat, *Myotis yumanensis* (SC)
Sierra Nevada red fox, *Vulpes vulpes necator* (CA)

Birds

northern goshawk, *Accipiter gentilis* (SC)
short-eared owl, *Asio flammeus* (SC)
oak titmouse, *Baeolophus inornatus* (SLC)
Lawrence's goldfinch, *Carduelis lawrencei* (SC)
black tern, *Chlidonias niger* (SC)
American dipper, *Cinclus mexicanus* (SLC)
black swift, *Cypseloides niger* (SC)
hermit warbler, *Dendroica occidentalis* (SC)
little willow flycatcher, *Empidonax traillii brewsteri* (CA)
American peregrine falcon, *Falco peregrinus anatum* (D)
Lewis' woodpecker, *Melanerpes lewis* (SC)
long-billed curlew, *Numenius americanus* (SC)
white-headed woodpecker, *Picoides albolarvatus* (SLC)
rufous hummingbird, *Selasphorus rufus* (SC)
California spotted owl, *Strix occidentalis occidentalis* (SC)

Amphibians

Mount Lyell salamander, *Hydromantes platycephalus* (SC)
mountain yellow-legged frog, *Rana muscosa* (SC)

Fish

longfin smelt, *Spirinchus thaleichthys* (SC)

Invertebrates

Leech's skyline diving beetle, *Hydroporus leechi* (SC)
Bohart's blue butterfly, *Philotiella speciosa bohartorum* (SC)
Sierra pygmy grasshopper, *Tetrix sierrana* (SC)

Plants

Mono Hot Springs evening-primrose, *Camissonia sierrae* ssp. *alticola* (SC)
Rawson's flaming-trumpet, *Collomia rawsoniana* (SC)
Yosemite lewisia, *Lewisia disepala* (SC)

KEY:

(E)	<i>Endangered</i>	Listed (in the Federal Register) as being in danger of extinction.
(T)	<i>Threatened</i>	Listed as likely to become endangered within the foreseeable future.
(P)	<i>Proposed</i>	Officially proposed (in the Federal Register) for listing as endangered or threatened.
(PX)	<i>Proposed Critical Habitat</i>	Proposed as an area essential to the conservation of the species.
(C)	<i>Candidate</i>	Candidate to become a <i>proposed</i> species.
(SC)	<i>Species of Concern</i>	May be endangered or threatened. Not enough biological information has been gathered to support listing at this time.
(SLC)	<i>Species of Local Concern</i>	Species of local or regional concern or conservation significance.
(MB)	<i>Migratory Bird</i>	Migratory bird
NMFS	NMFS species	Under the jurisdiction of the National Marine Fisheries Service. Contact them directly.
(D)	<i>Delisted</i>	Delisted. Status to be monitored for 5 years.
(CA)	<i>State-Listed</i>	Listed as threatened or endangered by the State of California.
(*)	<i>Extirpated</i>	Possibly extirpated from this quad.
(**)	<i>Extinct</i>	Possibly extinct.
	<i>Critical Habitat</i>	Area essential to the conservation of a species.

Endangered and Threatened Species that May Occur in or be Affected by
Projects in the Area of the Following California Counties

Reference File No. 1-1-03-SP-0158

Southern California Edison Relicensing Seven Big Creek Hydropower
Projects FERC Project Nos. 67, 120, 2085, 2175, 2086, 2174, 2017

October 29, 2002

FRESNO COUNTY

Listed Species

Mammals

- Critical habitat, Fresno kangaroo rat, *Dipodomys nitratooides exilis* (E)
- Fresno kangaroo rat, *Dipodomys nitratooides exilis* (E)
- San Joaquin kit fox, *Vulpes macrotis mutica* (E)
- Sierra Nevada (=California) bighorn sheep, *Ovis canadensis californiana* (E)
- Tipton kangaroo rat, *Dipodomys nitratooides nitratooides* (E)
- giant kangaroo rat, *Dipodomys ingens* (E)
- riparian (San Joaquin Valley) woodrat, *Neotoma fuscipes riparia* (E) *

Birds

- California condor, *Gymnogyps californianus* (E)
- bald eagle, *Haliaeetus leucocephalus* (T)

Reptiles

- blunt-nosed leopard lizard, *Gambelia* (=Crotaphytus) *sila* (E)
- giant garter snake, *Thamnophis gigas* (T)

Amphibians

- California red-legged frog, *Rana aurora draytonii* (T)
- California tiger salamander, *Ambystoma californiense* (C/E)
- Critical habitat, California red-legged frog, *Rana aurora draytonii* (T)

Fish

- Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS
- Lahontan cutthroat trout, *Oncorhynchus* (=Salmo) *clarki henshawi* (T)
- Paiute cutthroat trout, *Oncorhynchus* (=Salmo) *clarki seleniris* (T)
- Sacramento splittail, *Pogonichthys macrolepidotus* (T)
- delta smelt, *Hypomesus transpacificus* (T) *

Invertebrates

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

Plants

- California jewelflower, *Caulanthus californicus* (E)
- Greene's tuctoria (=Orcutt grass), *Tuctoria greenei* (E) *
- Hartweg's golden sunburst, *Pseudobahia bahiifolia* (E)
- Hoover's eriastrum (= woolly-star), *Eriastrum hooveri* (T)
- Keck's checker-mallow (=checkerbloom), *Sidalcea keckii* (E)
- Mariposa pussy-paws, *Calyptridium pulchellum* (T)
- San Benito evening-primrose, *Camissonia benitensis* (T)
- San Joaquin Valley Orcutt grass, *Orcuttia inaequalis* (T)
- San Joaquin adobe sunburst, *Pseudobahia peirsonii* (T)
- San Joaquin woolly-threads, *Monolopia congdonii* (=Lembertia congdonii) (E)
- palmate-bracted bird's-beak, *Cordylanthus palmatus* (E)
- succulent (=fleshy) owl's-clover, *Castilleja campestris ssp. succulenta* (T)

Proposed Species**Birds**

- mountain plover, *Charadrius montanus* (PT)

Invertebrates

- Critical habitat, vernal pool invertebrates, See *Federal Register* 67:59883 (PX)

Plants

- Critical habitat, vernal pool plants, See *Federal Register* 67:59883 (PX)
- critical habitat, Keck's checker-mallow, *Sidalcea keckii* (PX)

Candidate Species**Birds**

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

Plants

- slender Moonwort (= narrowleaf grapefern), *Botrychium lineare* (C)

Species of Concern**Mammals**

- American (=pine) marten, *Martes americana* (SC)
- California wolverine, *Gulo gulo luteus* (CA)
- Mt. Lyell shrew, *Sorex lyelli* (SC)
- Pacific fisher, *Martes pennanti pacifica* (SC)
- Pacific western big-eared bat, *Corynorhinus* (=Plecotus) *townsendii townsendii* (SC)
- San Joaquin (=Nelson's) antelope squirrel, *Ammospermophilus nelsoni* (CA)
- San Joaquin pocket mouse, *Perognathus inornatus* (SC)
- Sierra Nevada red fox, *Vulpes vulpes necator* (CA)

Southern grasshopper mouse, *Onychomys torridus ramona* (SC)
Tulare grasshopper mouse, *Onychomys torridus tularensis* (SC)
Yuma myotis bat, *Myotis yumanensis* (SC)
fringed myotis bat, *Myotis thysanodes* (SC)
greater western mastiff-bat, *Eumops perotis californicus* (SC)
long-eared myotis bat, *Myotis evotis* (SC)
long-legged myotis bat, *Myotis volans* (SC)
pale Townsend's big-eared bat, *Corynorhinus (=Plecotus) townsendii pallescens* (SC)
short-nosed kangaroo rat, *Dipodomys nitratoides brevinasus* (SC)
small-footed myotis bat, *Myotis ciliolabrum* (SC)
spotted bat, *Euderma maculatum* (SC)

Birds

Aleutian Canada goose, *Branta canadensis leucopareia* (D)
American bittern, *Botaurus lentiginosus* (SC)
American dipper, *Cinclus mexicanus* (SLC)
American peregrine falcon, *Falco peregrinus anatum* (D)
Brewer's sparrow, *Spizella breweri* (SC)
California spotted owl, *Strix occidentalis occidentalis* (SC)
California thrasher, *Toxostoma redivivum* (SC)
Costa's hummingbird, *Calypte costae* (SC)
Lawrence's goldfinch, *Carduelis lawrencei* (SC)
Lewis' woodpecker, *Melanerpes lewis* (SC)
Nuttall's woodpecker, *Picoides nuttallii* (SLC)
San Joaquin LeConte's thrasher, *Toxostoma lecontei macmillanorum* (SC)
Swainson's hawk, *Buteo Swainsoni* (CA)
Vaux's swift, *Chaetura vauxi* (SC)
bank swallow, *Riparia riparia* (CA)
black swift, *Cypseloides niger* (SC)
common loon, *Gavia immer* (SC)
ferruginous hawk, *Buteo regalis* (SC)
grasshopper sparrow, *Ammodramus savannarum* (SC)
greater sandhill crane, *Grus canadensis tabida* (CA)
hermit warbler, *Dendroica occidentalis* (SC)
least bittern, western, *Ixobrychus exilis hesperis* (SC)
little willow flycatcher, *Empidonax traillii brewsteri* (CA)
loggerhead shrike, *Lanius ludovicianus* (SC)
long-billed curlew, *Numenius americanus* (SC)

northern goshawk, *Accipiter gentilis* (SC)
oak titmouse, *Baeolophus inornatus* (SLC)
olive-sided flycatcher, *Contopus cooperi* (SC)
rufous hummingbird, *Selasphorus rufus* (SC)
short-eared owl, *Asio flammeus* (SC)
tricolored blackbird, *Agelaius tricolor* (SC)
western burrowing owl, *Athene cunicularia hypugaea* (SC)
white-faced ibis, *Plegadis chihi* (SC)
white-headed woodpecker, *Picoides albolarvatus* (SLC)
white-tailed (=black shouldered) kite, *Elanus leucurus* (SC)

Reptiles

California horned lizard, *Phrynosoma coronatum frontale* (SC)
San Joaquin coachwhip (=whipsnake), *Masticophis flagellum ruddocki* (SC)
northwestern pond turtle, *Clemmys marmorata marmorata* (SC)
silvery legless lizard, *Anniella pulchra pulchra* (SC)
southwestern pond turtle, *Clemmys marmorata pallida* (SC)

Amphibians

Mount Lyell salamander, *Hydromantes platycephalus* (SC)
Yosemite toad, *Bufo canorus* (SC)
foothill yellow-legged frog, *Rana boyllii* (SC)
mountain yellow-legged frog, *Rana muscosa* (SC)
western spadefoot toad, *Spea hammondi* (SC)

Fish

Kern brook lamprey, *Lampetra hubbsi* (SC)
Pacific lamprey, *Lampetra tridentata* (SC)
green sturgeon, *Acipenser medirostris* (SC)
longfin smelt, *Spirinchus thaleichthys* (SC)
river lamprey, *Lampetra ayresi* (SC)

Invertebrates

Bohart's blue butterfly, *Philotiella speciosa bohartorum* (SC)
California linderiella fairy shrimp, *Linderiella occidentalis* (SC)
Ciervo aegialian scarab beetle, *Aegialia concinna* (SC)
Dry Creek cliff strider bug, *Oravelia pege* (SC)
Hopping's blister beetle, *Lytta hoppingi* (SC)
Kings Canyon cryptochian caddisfly, *Cryptochia excella* (SC)
Midvalley fairy shrimp, *Branchinecta mesovallensis* (SC)
Morrison's blister beetle, *Lytta morrisoni* (SC)

San Joaquin dune beetle, *Coelus gracilis* (SC)
San Joaquin tiger beetle, *Cicindela tranquebarica* ssp. (SC)
Sierra pygmy grasshopper, *Tetrix sierrana* (SC)
Woolly hydroporus diving beetle, *Hydroporus hirsutus* (SC)
moestan blister beetle, *Lytta moesta* (SC)
molestan blister beetle, *Lytta molesta* (SC)

Plants

Bodie Hills rock cress, *Arabis bodiensis* (SC)
Boggs Lake hedge-hyssop, *Gratiola heterosepala* (CA)
Fresno County bird's-beak, *Cordylanthus tenuis* ssp. *barbatus* (SC)
Hall's tarplant, *Deinandra halliana* (SC)
Indian Valley (=gray) bush mallow, *Malacothamnus aboriginum* (SLC)
Kern River daisy, *Erigeron multiceps* (SC)
Kings River buckwheat, *Eriogonum nudum* var. *regirivum* (SLC)
Lemmon's jewelflower, *Caulanthus coulteri* var. *lemmonii* (SLC)
Lost Hills saltbush (=crownscale), *Atriplex vallicola* (SC)
Madera linanthus, *Linanthus serrulatus* (SLC)
Monarch gilia, *Gilia yorkii* (SLC)
Mono Hot Springs evening-primrose, *Camissonia sierrae* ssp. *alticola* (SC)
Munz's tidy-tips, *Layia munzii* (SC)
No common name, *Schizymerium shevockii* (SLC)
Panoche peppergrass, *Lepidium jaredii* var. *album* (SC)
Raven's milk-vetch, *Astragalus monoensis* var. *ravenii* (SC)
San Benito spineflower, *Chorizanthe biloba* var. *immemora* (SC)
South Coast Range morning-glory, *Calystegia collina* ssp. *venusta* (SLC)
Tehipite Valley jewelflower, *Streptanthus fenestratus* (SC)
Yosemite lewisia, *Lewisia disepala* (SC)
alpine streptanthus (=jewel-flower), *Streptanthus gracilis* (SC)
aromatic canyon gooseberry, *Ribes menziesii* var. *ixoderme* (SLC)
brittlescale, *Atriplex depressa* (SC)
carpenteria, *Carpenteria californica* (CA)
cottony buckwheat, *Eriogonum gossypinum* (SLC)
delta tule-pea, *Lathyrus jepsonii* var. *jepsonii* (SC)
field ivesia (=field mousetail), *Ivesia campestris* (SLC)
forked fiddleneck, *Amsinckia vernicosa* var. *furcata* (SLC)
heartscale, *Atriplex cordulata* (SC)
lesser saltscale, *Atriplex minuscula* (SC)

long-petaled lewisia, *Lewisia longipetala* (SC)
 mouse buckwheat, *Eriogonum nudum* var. *murinum* (SC)
 obovate-leaved thornmint, *Acanthomintha obovata* ssp. *obovata* (SC)
 orange lupine, *Lupinus citrinus* var. *citrinus* (SC)
 pale-yellow layia, *Layia heterotricha* (SC)
 parasol (=Bolander's) clover, *Trifolium bolanderi* (SC)
 rayless layia, *Layia discoidea* (SC)
 recurved larkspur, *Delphinium recurvatum* (SC)
 serpentine bedstraw, *Galium andrewsii* ssp. *gatenise* (SLC)
 short-leaved hulsea (=shortleaf alpinegold), *Hulsea brevifolia* (SLC)
 showy (=golden) madia, *Madia radiata* (SC)
 slender-stalked monkeyflower, *Mimulus gracilipes* (SLC)
 spiny-sepaed coyote-thistle (=button-celery), *Eryngium spinosepalum* (SC)
 stinkbells, *Fritillaria agrestis* (SLC)
 subtle orache, *Atriplex subtilis* (SLC)
 valley sagittaria (=Sanford's arrowhead), *Sagittaria sanfordii* (SC)

MADERA COUNTY

Listed Species

Mammals

Fresno kangaroo rat, *Dipodomys nitratooides exilis* (E)
 San Joaquin kit fox, *Vulpes macrotis mutica* (E)

Birds

bald eagle, *Haliaeetus leucocephalus* (T)

Reptiles

blunt-nosed leopard lizard, *Gambelia* (=Crotaphytus) *sila* (E)
 giant garter snake, *Thamnophis gigas* (T)

Amphibians

California red-legged frog, *Rana aurora draytonii* (T)
 California tiger salamander, *Ambystoma californiense* (C/E)

Fish

Central Valley steelhead, *Oncorhynchus mykiss* (T) NMFS
 Lahontan cutthroat trout, *Oncorhynchus* (=Salmo) *clarki henshawi* (T)
 Paiute cutthroat trout, *Oncorhynchus* (=Salmo) *clarki seleniris* (T)
 Sacramento splittail, *Pogonichthys macrolepidotus* (T)
 delta smelt, *Hypomesus transpacificus* (T) *

Invertebrates

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

Plants

- Greene's tuctoria (=Orcutt grass), *Tuctoria greenei* (E) *
- Hartweg's golden sunburst, *Pseudobahia bahiifolia* (E)
- Mariposa pussy-paws, *Calyptridium pulchellum* (T)
- San Joaquin Valley Orcutt grass, *Orcuttia inaequalis* (T)
- hairy Orcutt grass, *Orcuttia pilosa* (E)
- palmate-bracted bird's-beak, *Cordylanthus palmatus* (E)
- succulent (=fleshy) owl's-clover, *Castilleja campestris ssp. succulenta* (T)

Proposed Species

Birds

- mountain plover, *Charadrius montanus* (PT)

Invertebrates

- Critical habitat, vernal pool invertebrates, See *Federal Register* 67:59883 (PX)

Plants

- Critical habitat, vernal pool plants, See *Federal Register* 67:59883 (PX)

Candidate Species

Birds

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

Plants

- slender Moonwort (= narrowleaf grapefern), *Botrychium lineare* (C) *

Species of Concern

Mammals

- American (=pine) marten, *Martes americana* (SC)
- California wolverine, *Gulo gulo luteus* (CA)
- Merced kangaroo rat, *Dipodomys heermanni dixonii* (SC)
- Mt. Lyell shrew, *Sorex lyelli* (SC)
- Pacific fisher, *Martes pennanti pacifica* (SC)
- Pacific western big-eared bat, *Corynorhinus (=Plecotus) townsendii townsendii* (SC)
- San Joaquin (=Nelson's) antelope squirrel, *Ammospermophilus nelsoni* (CA)
- San Joaquin pocket mouse, *Perognathus inornatus* (SC)
- Sierra Nevada red fox, *Vulpes vulpes necator* (CA)

Sierra Nevada snowshoe hare, *Lepus americanus tahoensis* (SC)
Southern grasshopper mouse, *Onychomys torridus ramona* (SC)
Yuma myotis bat, *Myotis yumanensis* (SC)
fringed myotis bat, *Myotis thysanodes* (SC)
greater western mastiff-bat, *Eumops perotis californicus* (SC)
long-eared myotis bat, *Myotis evotis* (SC)
long-legged myotis bat, *Myotis volans* (SC)
pale Townsend's big-eared bat, *Corynorhinus (=Plecotus) townsendii pallescens* (SC)
short-nosed kangaroo rat, *Dipodomys nitratoides brevinasus* (SC)
small-footed myotis bat, *Myotis ciliolabrum* (SC)
spotted bat, *Euderma maculatum* (SC)

Birds

Aleutian Canada goose, *Branta canadensis leucopareia* (D)
American bittern, *Botaurus lentiginosus* (SC)
American dipper, *Cinclus mexicanus* (SLC)
American peregrine falcon, *Falco peregrinus anatum* (D)
Bell's sage sparrow, *Amphispiza belli belli* (SC)
Brewer's sparrow, *Spizella breweri* (SC)
California spotted owl, *Strix occidentalis occidentalis* (SC)
California thrasher, *Toxostoma redivivum* (SC)
Costa's hummingbird, *Calypte costae* (SC)
Harlequin duck, *Histrionicus histrionicus* (SC)
Lawrence's goldfinch, *Carduelis lawrencei* (SC)
Lewis' woodpecker, *Melanerpes lewis* (SC)
Nuttall's woodpecker, *Picoides nuttallii* (SLC)
Swainson's hawk, *Buteo Swainsoni* (CA)
Vaux's swift, *Chaetura vauxi* (SC)
bank swallow, *Riparia riparia* (CA)
black swift, *Cypseloides niger* (SC)
common loon, *Gavia immer* (SC)
ferruginous hawk, *Buteo regalis* (SC)
grasshopper sparrow, *Ammodramus savannarum* (SC)
greater sandhill crane, *Grus canadensis tabida* (CA)
hermit warbler, *Dendroica occidentalis* (SC)
least bittern, western, *Ixobrychus exilis hesperis* (SC)
little willow flycatcher, *Empidonax traillii brewsteri* (CA)
loggerhead shrike, *Lanius ludovicianus* (SC)

long-billed curlew, *Numenius americanus* (SC)
northern goshawk, *Accipiter gentilis* (SC)
oak titmouse, *Baeolophus inornatus* (SLC)
olive-sided flycatcher, *Contopus cooperi* (SC)
rufous hummingbird, *Selasphorus rufus* (SC)
short-eared owl, *Asio flammeus* (SC)
tricolored blackbird, *Agelaius tricolor* (SC)
western burrowing owl, *Athene cunicularia hypugaea* (SC)
white-faced ibis, *Plegadis chihi* (SC)
white-headed woodpecker, *Picoides albolarvatus* (SLC)
white-tailed (=black shouldered) kite, *Elanus leucurus* (SC)

Reptiles

California horned lizard, *Phrynosoma coronatum frontale* (SC)
northern sagebrush lizard, *Sceloporus graciosus graciosus* (SC)
northwestern pond turtle, *Clemmys marmorata marmorata* (SC)
silvery legless lizard, *Anniella pulchra pulchra* (SC)
southwestern pond turtle, *Clemmys marmorata pallida* (SC)

Amphibians

Mount Lyell salamander, *Hydromantes platycephalus* (SC)
Yosemite toad, *Bufo canorus* (SC)
foothill yellow-legged frog, *Rana boylei* (SC)
mountain yellow-legged frog, *Rana muscosa* (SC)
western spadefoot toad, *Spea hammondi* (SC)

Fish

Kern brook lamprey, *Lampetra hubbsi* (SC)
green sturgeon, *Acipenser medirostris* (SC)
longfin smelt, *Spirinchus thaleichthys* (SC)
river lamprey, *Lampetra ayresi* (SC)

Invertebrates

Bohart's blue butterfly, *Philotiella speciosa bohartorum* (SC)
California linderiella fairy shrimp, *Linderiella occidentalis* (SC)
Leech's skyline diving beetle, *Hydroporus leechi* (SC)
Midvalley fairy shrimp, *Branchinecta mesovallensis* (SC)
San Joaquin tiger beetle, *Cicindela tranquebarica* ssp. (SC)
Sierra pygmy grasshopper, *Tetrix sierrana* (SC)
Wawona riffle beetle, *Atractelmis wawona* (SC)
Yosemite mariposa sideband snail, *Monadenia hillebrandi yosemitensis* (SC)

molestan blister beetle, *Lytta molesta* (SC)

Plants

Boggs Lake hedge-hyssop, *Gratiola heterosepala* (CA)

Ewan's larkspur, *Delphinium hansenii* ssp. *ewanianum* (SC)

Hoover's caycadenia, *Calycadenia hooveri* (SLC)

Hoover's cryptantha, *Cryptantha hooveri* (SLC)

Madera linanthus, *Linanthus serrulatus* (SLC)

Mono Hot Springs evening-primrose, *Camissonia sierrae* ssp. *alticola* (SC)

Rawson's flaming-trumpet, *Collomia rawsoniana* (SC)

Small's southern clarkia, *Clarkia australis* (SC)

Yosemite lewisia, *Lewisia disepala* (SC)

Yosemite woolly-sunflower, *Eriophyllum nubigenum* (SC)

brittlescale, *Atriplex depressa* (SC)

carpenteria, *Carpenteria californica* (CA)

common moonwort, *Botrychium lunaria* (SC)

heartscale, *Atriplex cordulata* (SC)

large-flowered (=flower) linanthus, *Linanthus grandiflorus* (SC)

lesser saltscale, *Atriplex minuscula* (SC)

orange lupine, *Lupinus citrinus* var. *citrinus* (SC)

parasol (=Bolander's) clover, *Trifolium bolanderi* (SC)

short-leaved hulsea (=shortleaf alpinegold), *Hulsea brevifolia* (SLC)

spiny-sepaled coyote-thistle (=button-celery), *Eryngium spinosepalum* (SC)

subtle orache, *Atriplex subtilis* (SLC)

KEY:

(E)	<i>Endangered</i>	Listed (in the Federal Register) as being in danger of extinction.
(T)	<i>Threatened</i>	Listed as likely to become endangered within the foreseeable future.
(P)	<i>Proposed</i>	Officially proposed (in the Federal Register) for listing as endangered or threatened.
(PX)	<i>Proposed Critical Habitat</i>	Proposed as an area essential to the conservation of the species.
(C)	<i>Candidate</i>	Candidate to become a <i>proposed</i> species.
(SC)	<i>Species of Concern</i>	Other species of concern to the Service.
(SLC)	<i>Species of Local Concern</i>	Species of local or regional concern or conservation significance.
(D)	<i>Delisted</i>	Delisted. Status to be monitored for 5 years.
(CA)	<i>State-Listed</i>	Listed as threatened or endangered by the State of California.
NMFS	NMFS species	Under jurisdiction of the National Marine Fisheries Service. Contact them directly.
*	<i>Extirpated</i>	Possibly extirpated from the area.
**	<i>Extinct</i>	Possibly extinct
	<i>Critical Habitat</i>	Area essential to the conservation of a species.

Species lists updated from the USFWS website on July 15, 2003.

**Federal Endangered and Threatened Species that
may be Affected by Projects in the
AUBERRY 7 1/2 Minute Quad**

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Invertebrates

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Fish

Hypomesus transpacificus - delta smelt (T)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Amphibians

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

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Dipodomys nitratoides exilis - Fresno kangaroo rat (E)

Plants

Calyptridium pulchellum - Mariposa pussy-paws (T)

Species of Concern

Invertebrates

Oravelia pege - Dry Creek cliff strider bug (SC)

Philotiella speciosa bohartorum - Bohart's blue butterfly (SC)

Tetrix sierrana - Sierra pygmy grasshopper (SC)

Fish

Lampetra hubbsi - Kern brook lamprey (SC)

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Rana boylei - foothill yellow-legged frog (SC)

Reptiles

Clemmys marmorata marmorata - northwestern pond turtle (SC)

Clemmys marmorata pallida - southwestern pond turtle (SC)

Phrynosoma coronatum frontale - California horned lizard (SC)

Birds

Accipiter gentilis - northern goshawk (SC)

Agelaius tricolor - tricolored blackbird (SC)

Athene cunicularia hypugaea - western burrowing owl (SC)

Baeolophus inornatus - oak titmouse (SLC)

Calypte costae - Costa's hummingbird (SC)

Carduelis lawrencei - Lawrence's goldfinch (SC)

Chaetura vauxi - Vaux's swift (SC)

Cypseloides niger - black swift (SC)

Empidonax traillii brewsteri - little willow flycatcher (CA)

Falco peregrinus anatum - American peregrine falcon (D)

Lanius ludovicianus - loggerhead shrike (SC)

Melanerpes lewis - Lewis' woodpecker (SC)

Numenius americanus - long-billed curlew (SC)

Picoides nuttallii - Nuttall's woodpecker (SLC)

Selasphorus rufus - rufous hummingbird (SC)

Strix occidentalis occidentalis - California spotted owl (SC)

Toxostoma redivivum - California thrasher (SC)

Mammals

Corynorhinus (=Plecotus) townsendii townsendii - Pacific western big-eared bat (SC)

Euderma maculatum - spotted bat (SC)

Eumops perotis californicus - greater western mastiff-bat (SC)

Martes americana - American (=pine) marten (SC)

Myotis ciliolabrum - small-footed myotis bat (SC)

Myotis evotis - long-eared myotis bat (SC)

Myotis thysanodes - fringed myotis bat (SC)

Myotis volans - long-legged myotis bat (SC)

Myotis yumanensis - Yuma myotis bat (SC)

Vulpes vulpes necator - Sierra Nevada red fox (CA)

Plants

Carpenteria californica - carpenteria (CA)

Lupinus citrinus var. *citrinus* - orange lupine (SC)

Mimulus gracilipes - slender-stalked monkeyflower (SLC)

Species with Critical Habitat Proposed or Designated in this Quad

None

**Federal Endangered and Threatened Species that
may be Affected by Projects in the
BALLOON DOME 7 1/2 Minute Quad**

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Candidate Species

Amphibians

Bufo canorus - Yosemite toad (C)

Rana muscosa - mountain yellow-legged frog (C)

Species of Concern

Fish

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Hydromantes platycephalus - Mount Lyell salamander (SC)

Birds

Accipiter gentilis - northern goshawk (SC)

Baeolophus inornatus - oak titmouse (SLC)

Cinclus mexicanus - American dipper (SLC)

Cypseloides niger - black swift (SC)

Empidonax traillii brewsteri - little willow flycatcher (CA)

Falco peregrinus anatum - American peregrine falcon (D)

Melanerpes lewis - Lewis' woodpecker (SC)

Numenius americanus - long-billed curlew (SC)

Otus flammeolus - flammulated owl (SC)

Picoides albolarvatus - white-headed woodpecker (SC)

Selasphorus rufus - rufous hummingbird (SC)

Strix occidentalis occidentalis - California spotted owl (SC)

Mammals

Euderma maculatum - spotted bat (SC)

Martes pennanti - fisher (SC)

Myotis ciliolabrum - small-footed myotis bat (SC)

Myotis evotis - long-eared myotis bat (SC)

Myotis thysanodes - fringed myotis bat (SC)

Myotis volans - long-legged myotis bat (SC)

Myotis yumanensis - Yuma myotis bat (SC)

Sorex lyelli - Mt. Lyell shrew (SC)

Vulpes vulpes necator - Sierra Nevada red fox (CA)

Plants

Lewisia disepala - Yosemite lewisia (SC)

Species with Critical Habitat Proposed or Designated in this Quad
None

**Federal Endangered and Threatened Species that
may be Affected by Projects in the
CASCADEL POINT 7 1/2 Minute Quad**

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Amphibians

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

Birds

Haliaeetus leucocephalus - bald eagle (T)

Species of Concern

Invertebrates

Philotiella speciosa bohartorum - Bohart's blue butterfly (SC)

Tetrix sierrana - Sierra pygmy grasshopper (SC)

Fish

Lampetra hubbsi - Kern brook lamprey (SC)

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Rana boylei - foothill yellow-legged frog (SC)

Reptiles

Clemmys marmorata marmorata - northwestern pond turtle (SC)

Clemmys marmorata pallida - southwestern pond turtle (SC)

Birds

Accipiter gentilis - northern goshawk (SC)

Agelaius tricolor - tricolored blackbird (SC)

Athene cunicularia hypugaea - western burrowing owl (SC)

Baeolophus inornatus - oak titmouse (SLC)

Calypte costae - Costa's hummingbird (SC)

Carduelis lawrencei - Lawrence's goldfinch (SC)

Chaetura vauxi - Vaux's swift (SC)

Cinclus mexicanus - American dipper (SLC)

Cypseloides niger - black swift (SC)

Empidonax traillii brewsteri - little willow flycatcher (CA)

Falco peregrinus anatum - American peregrine falcon (D)

Lanius ludovicianus - loggerhead shrike (SC)

Melanerpes lewis - Lewis' woodpecker (SC)

Numenius americanus - long-billed curlew (SC)

Otus flammeolus - flammulated owl (SC)

Picoides nuttallii - Nuttall's woodpecker (SLC)

Selasphorus rufus - rufous hummingbird (SC)

Strix occidentalis occidentalis - California spotted owl (SC)

Toxostoma redivivum - California thrasher (SC)

Mammals

Euderma maculatum - spotted bat (SC)

Eumops perotis californicus - greater western mastiff-bat (SC)

Martes pennanti - fisher (SC)

Myotis ciliolabrum - small-footed myotis bat (SC)

Myotis evotis - long-eared myotis bat (SC)

Myotis thysanodes - fringed myotis bat (SC)

Myotis volans - long-legged myotis bat (SC)

Myotis yumanensis - Yuma myotis bat (SC)

Vulpes vulpes necator - Sierra Nevada red fox (CA)

Plants

Carpenteria californica - carpenteria (CA)

Collomia rawsoniana - Rawson's flaming-trumpet (SC)

Lupinus citrinus var. citrinus - orange lupine (SC)

Species with Critical Habitat Proposed or Designated in this Quad
None

**Federal Endangered and Threatened Species that
may be Affected by Projects in the
DINKEY CREEK 7 1/2 Minute Quad**

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus (=Salmo) clarki henshawi - Lahontan cutthroat trout (T)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Species of Concern

Fish

Lampetra hubbsi - Kern brook lamprey (SC)

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Hydromantes platycephalus - Mount Lyell salamander (SC)

Rana boylei - foothill yellow-legged frog (SC)

Reptiles

Clemmys marmorata pallida - southwestern pond turtle (SC)

Birds

Accipiter gentilis - northern goshawk (SC)

Baeolophus inornatus - oak titmouse (SLC)

Calypte costae - Costa's hummingbird (SC)

Carduelis lawrencei - Lawrence's goldfinch (SC)
Chaetura vauxi - Vaux's swift (SC)
Cinclus mexicanus - American dipper (SLC)
Cypseloides niger - black swift (SC)
Empidonax traillii brewsteri - little willow flycatcher (CA)
Falco peregrinus anatum - American peregrine falcon (D)
Melanerpes lewis - Lewis' woodpecker (SC)
Numenius americanus - long-billed curlew (SC)
Otus flammeolus - flammulated owl (SC)
Picoides albolarvatus - white-headed woodpecker (SC)
Selasphorus rufus - rufous hummingbird (SC)
Strix occidentalis occidentalis - California spotted owl (SC)
Toxostoma redivivum - California thrasher (SC)

Mammals

Euderma maculatum - spotted bat (SC)
Eumops perotis californicus - greater western mastiff-bat (SC)
Martes americana - American (=pine) marten (SC)
Martes pennanti - fisher (SC)
Myotis ciliolabrum - small-footed myotis bat (SC)
Myotis evotis - long-eared myotis bat (SC)
Myotis thysanodes - fringed myotis bat (SC)
Myotis volans - long-legged myotis bat (SC)
Myotis yumanensis - Yuma myotis bat (SC)
Vulpes vulpes necator - Sierra Nevada red fox (CA)

Plants

Carpenteria californica - carpenteria (CA)

Lupinus citrinus var. *citrinus* - orange lupine (SC)

Species with Critical Habitat Proposed or Designated in this Quad
None

**Federal Endangered and Threatened Species that
may be Affected by Projects in the
DOGTOOTH PEAK 7 1/2 Minute Quad**

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus (=Salmo) clarki henshawi - Lahontan cutthroat trout (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Candidate Species

Amphibians

Bufo canorus - Yosemite toad (C)

Rana muscosa - mountain yellow-legged frog (C)

Species of Concern

Fish

Lampetra hubbsi - Kern brook lamprey (SC)

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Hydromantes platycephalus - Mount Lyell salamander (SC)

Reptiles

Clemmys marmorata marmorata - northwestern pond turtle (SC)

Birds

- Accipiter gentilis* - northern goshawk (SC)
- Baeolophus inornatus* - oak titmouse (SLC)
- Cinclus mexicanus* - American dipper (SLC)
- Cypseloides niger* - black swift (SC)
- Empidonax traillii brewsteri* - little willow flycatcher (CA)
- Falco peregrinus anatum* - American peregrine falcon (D)
- Melanerpes lewis* - Lewis' woodpecker (SC)
- Numenius americanus* - long-billed curlew (SC)
- Otus flammeolus* - flammulated owl (SC)
- Picoides albolarvatus* - white-headed woodpecker (SC)
- Selasphorus rufus* - rufous hummingbird (SC)
- Strix occidentalis occidentalis* - California spotted owl (SC)

Mammals

- Euderma maculatum* - spotted bat (SC)
- Eumops perotis californicus* - greater western mastiff-bat (SC)
- Martes pennanti* - fisher (SC)
- Myotis ciliolabrum* - small-footed myotis bat (SC)
- Myotis evotis* - long-eared myotis bat (SC)
- Myotis thysanodes* - fringed myotis bat (SC)
- Myotis volans* - long-legged myotis bat (SC)
- Myotis yumanensis* - Yuma myotis bat (SC)
- Vulpes vulpes necator* - Sierra Nevada red fox (CA)

Plants

- Hulsea brevifolia* - short-leaved hulsea (=shortleaf alpinegold) (SLC)

Species with Critical Habitat Proposed or Designated in this Quad
None

**Federal Endangered and Threatened Species that
may be Affected by Projects in the
FLORENCE LAKE 7 1/2 Minute Quad**

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Ovis canadensis californiana - Sierra Nevada (=California) bighorn sheep (E)

Candidate Species

Amphibians

Bufo canorus - Yosemite toad (C)

Rana muscosa - mountain yellow-legged frog (C)

Species of Concern

Fish

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Hydromantes platycephalus - Mount Lyell salamander (SC)

Birds

Accipiter gentilis - northern goshawk (SC)

Baeolophus inornatus - oak titmouse (SLC)
Cinclus mexicanus - American dipper (SLC)
Cypseloides niger - black swift (SC)
Empidonax traillii brewsteri - little willow flycatcher (CA)
Falco peregrinus anatum - American peregrine falcon (D)
Melanerpes lewis - Lewis' woodpecker (SC)
Numenius americanus - long-billed curlew (SC)
Otus flammeolus - flammulated owl (SC)
Picoides albolarvatus - white-headed woodpecker (SC)
Selasphorus rufus - rufous hummingbird (SC)
Strix occidentalis occidentalis - California spotted owl (SC)

Mammals

Euderma maculatum - spotted bat (SC)
Martes pennanti - fisher (SC)
Myotis ciliolabrum - small-footed myotis bat (SC)
Myotis evotis - long-eared myotis bat (SC)
Myotis thysanodes - fringed myotis bat (SC)
Myotis volans - long-legged myotis bat (SC)
Myotis yumanensis - Yuma myotis bat (SC)
Vulpes vulpes necator - Sierra Nevada red fox (CA)

Plants

Camissonia sierrae ssp. *alticola* - Mono Hot Springs evening-primrose (SC)

Species with Critical Habitat Proposed or Designated in this Quad
None

**Federal Endangered and Threatened Species that
may be Affected by Projects in the
GRAVEYARD PEAK 7 1/2 Minute Quad**

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus (=Salmo) clarki seleniris - Paiute cutthroat trout (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Ovis canadensis californiana - Sierra Nevada (=California) bighorn sheep (E)

Candidate Species

Amphibians

Bufo canorus - Yosemite toad (C)

Rana muscosa - mountain yellow-legged frog (C)

Species of Concern

Fish

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Hydromantes platycephalus - Mount Lyell salamander (SC)

Birds

Accipiter gentilis - northern goshawk (SC)
Baeolophus inornatus - oak titmouse (SLC)
Cinclus mexicanus - American dipper (SLC)
Cypseloides niger - black swift (SC)
Empidonax traillii brewsteri - little willow flycatcher (CA)
Falco peregrinus anatum - American peregrine falcon (D)
Melanerpes lewis - Lewis' woodpecker (SC)
Numenius americanus - long-billed curlew (SC)
Otus flammeolus - flammulated owl (SC)
Picoides albolarvatus - white-headed woodpecker (SC)
Selasphorus rufus - rufous hummingbird (SC)
Strix occidentalis occidentalis - California spotted owl (SC)

Mammals

Euderma maculatum - spotted bat (SC)
Martes pennanti - fisher (SC)
Myotis ciliolabrum - small-footed myotis bat (SC)
Myotis evotis - long-eared myotis bat (SC)
Myotis thysanodes - fringed myotis bat (SC)
Myotis volans - long-legged myotis bat (SC)
Myotis yumanensis - Yuma myotis bat (SC)
Sorex lyelli - Mt. Lyell shrew (SC)
Vulpes vulpes necator - Sierra Nevada red fox (CA)

Plants

Camissonia sierrae ssp. *alticola* - Mono Hot Springs evening-primrose (SC)

Species with Critical Habitat Proposed or Designated in this Quad
None

**Federal Endangered and Threatened Species that
may be Affected by Projects in the
HUNTINGTON LAKE 7 1/2 Minute Quad**

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus (=Salmo) clarki henshawi - Lahontan cutthroat trout (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Species of Concern

Fish

Lampetra hubbsi - Kern brook lamprey (SC)

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Hydromantes platycephalus - Mount Lyell salamander (SC)

Reptiles

Clemmys marmorata marmorata - northwestern pond turtle (SC)

Clemmys marmorata pallida - southwestern pond turtle (SC)

Birds

Accipiter gentilis - northern goshawk (SC)

Baeolophus inornatus - oak titmouse (SLC)

Carduelis lawrencei - Lawrence's goldfinch (SC)
Cinclus mexicanus - American dipper (SLC)
Cypseloides niger - black swift (SC)
Empidonax traillii brewsteri - little willow flycatcher (CA)
Falco peregrinus anatum - American peregrine falcon (D)
Melanerpes lewis - Lewis' woodpecker (SC)
Numenius americanus - long-billed curlew (SC)
Otus flammeolus - flammulated owl (SC)
Picoides albolarvatus - white-headed woodpecker (SC)
Selasphorus rufus - rufous hummingbird (SC)
Strix occidentalis occidentalis - California spotted owl (SC)

Mammals

Euderma maculatum - spotted bat (SC)
Eumops perotis californicus - greater western mastiff-bat (SC)
Martes americana - American (=pine) marten (SC)
Martes pennanti - fisher (SC)
Myotis ciliolabrum - small-footed myotis bat (SC)
Myotis evotis - long-eared myotis bat (SC)
Myotis thysanodes - fringed myotis bat (SC)
Myotis volans - long-legged myotis bat (SC)
Myotis yumanensis - Yuma myotis bat (SC)
Vulpes vulpes necator - Sierra Nevada red fox (CA)

Plants

Hulsea brevifolia - short-leaved hulsea (=shortleaf alpinegold) (SLC)
Linanthus serrulatus - Madera linanthus (SLC)

Species with Critical Habitat Proposed or Designated in this Quad
None

**Federal Endangered and Threatened Species that
may be Affected by Projects in the
KAISER PEAK 7 1/2 Minute Quad**

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Candidate Species

Amphibians

Bufo canorus - Yosemite toad (C)

Rana muscosa - mountain yellow-legged frog (C)

Species of Concern

Fish

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Hydromantes platycephalus - Mount Lyell salamander (SC)

Birds

Accipiter gentilis - northern goshawk (SC)

Baeolophus inornatus - oak titmouse (SLC)

Cinclus mexicanus - American dipper (SLC)

Cypseloides niger - black swift (SC)

Empidonax traillii brewsteri - little willow flycatcher (CA)

Falco peregrinus anatum - American peregrine falcon (D)

Melanerpes lewis - Lewis' woodpecker (SC)

Numenius americanus - long-billed curlew (SC)

Otus flammeolus - flammulated owl (SC)

Picoides albolarvatus - white-headed woodpecker (SC)

Selasphorus rufus - rufous hummingbird (SC)

Strix occidentalis occidentalis - California spotted owl (SC)

Mammals

Euderma maculatum - spotted bat (SC)

Eumops perotis californicus - greater western mastiff-bat (SC)

Martes americana - American (=pine) marten (SC)

Martes pennanti - fisher (SC)

Myotis ciliolabrum - small-footed myotis bat (SC)

Myotis evotis - long-eared myotis bat (SC)

Myotis thysanodes - fringed myotis bat (SC)

Myotis volans - long-legged myotis bat (SC)

Myotis yumanensis - Yuma myotis bat (SC)

Vulpes vulpes necator - Sierra Nevada red fox (CA)

Plants

Hulsea brevifolia - short-leaved hulsea (=shortleaf alpinegold) (SLC)

Species with Critical Habitat Proposed or Designated in this Quad
None

**Federal Endangered and Threatened Species that
may be Affected by Projects in the
MT. GIVENS 7 1/2 Minute Quad**

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Candidate Species

Amphibians

Bufo canorus - Yosemite toad (C)

Rana muscosa - mountain yellow-legged frog (C)

Species of Concern

Fish

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Hydromantes platycephalus - Mount Lyell salamander (SC)

Birds

Accipiter gentilis - northern goshawk (SC)

Baeolophus inornatus - oak titmouse (SLC)

Cinclus mexicanus - American dipper (SLC)

Cypseloides niger - black swift (SC)

Empidonax traillii brewsteri - little willow flycatcher (CA)

Falco peregrinus anatum - American peregrine falcon (D)

Melanerpes lewis - Lewis' woodpecker (SC)

Numenius americanus - long-billed curlew (SC)

Otus flammeolus - flammulated owl (SC)

Picoides albolarvatus - white-headed woodpecker (SC)

Selasphorus rufus - rufous hummingbird (SC)

Strix occidentalis occidentalis - California spotted owl (SC)

Mammals

Euderma maculatum - spotted bat (SC)

Martes pennanti - fisher (SC)

Myotis ciliolabrum - small-footed myotis bat (SC)

Myotis evotis - long-eared myotis bat (SC)

Myotis thysanodes - fringed myotis bat (SC)

Myotis volans - long-legged myotis bat (SC)

Myotis yumanensis - Yuma myotis bat (SC)

Vulpes vulpes necator - Sierra Nevada red fox (CA)

Plants

Camissonia sierrae ssp. *alticola* - Mono Hot Springs evening-primrose (SC)

Species with Critical Habitat Proposed or Designated in this Quad
None

**Federal Endangered and Threatened Species that
may be Affected by Projects in the
MILLERTON LAKE EAST 7 1/2 Minute Quad**

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Invertebrates

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Amphibians

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

Reptiles

Gambelia (=Crotaphytus) sila - blunt-nosed leopard lizard (E)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Dipodomys nitratoides exilis - Fresno kangaroo rat (E)

Plants

Castilleja campestris ssp. *succulenta* - succulent (=fleshy) owl's-clover (T)

Orcuttia inaequalis - San Joaquin Valley Orcutt grass (T)

Proposed Species

Amphibians

Ambystoma californiense - California tiger salamander (PT)

Candidate Species

Fish

Acipenser medirostris - green sturgeon (C)

Species of Concern

Invertebrates

Branchinecta mesovallensis - Midvalley fairy shrimp (SC)

Cicindela tranquebarica ssp. - San Joaquin tiger beetle (SC)

Linderiella occidentalis - California linderiella fairy shrimp (SC)

Lytta molesta - molestan blister beetle (SC)

Philotiella speciosa bohartorum - Bohart's blue butterfly (SC)

Tetrix sierrana - Sierra pygmy grasshopper (SC)

Fish

Lampetra hubbsi - Kern brook lamprey (SC)

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Rana boylei - foothill yellow-legged frog (SC)

Reptiles

Clemmys marmorata marmorata - northwestern pond turtle (SC)

Clemmys marmorata pallida - southwestern pond turtle (SC)

Phrynosoma coronatum frontale - California horned lizard (SC)

Birds

Accipiter gentilis - northern goshawk (SC)

Agelaius tricolor - tricolored blackbird (SC)
Athene cunicularia hypugaea - western burrowing owl (SC)
Baeolophus inornatus - oak titmouse (SLC)
Calypte costae - Costa's hummingbird (SC)
Carduelis lawrencei - Lawrence's goldfinch (SC)
Chaetura vauxi - Vaux's swift (SC)
Cypseloides niger - black swift (SC)
Empidonax traillii brewsteri - little willow flycatcher (CA)
Falco peregrinus anatum - American peregrine falcon (D)
Lanius ludovicianus - loggerhead shrike (SC)
Melanerpes lewis - Lewis' woodpecker (SC)
Numenius americanus - long-billed curlew (SC)
Picoides nuttallii - Nuttall's woodpecker (SLC)
Selasphorus rufus - rufous hummingbird (SC)
Toxostoma redivivum - California thrasher (SC)

Mammals

Corynorhinus (=Plecotus) townsendii townsendii - Pacific western big-eared bat (SC)
Euderma maculatum - spotted bat (SC)
Eumops perotis californicus - greater western mastiff-bat (SC)
Myotis ciliolabrum - small-footed myotis bat (SC)
Myotis evotis - long-eared myotis bat (SC)
Myotis thysanodes - fringed myotis bat (SC)
Myotis volans - long-legged myotis bat (SC)
Myotis yumanensis - Yuma myotis bat (SC)
Onychomys torridus ramona - Southern grasshopper mouse (SC)

Perognathus inornatus - San Joaquin pocket mouse (SC)

Plants

Gratiola heterosepala - Boggs Lake hedge-hyssop (CA)

Species with Critical Habitat Proposed or Designated in this Quad

vernal pool invertebrates (PX)

vernal pool plants (PX)

**Federal Endangered and Threatened Species that
may be Affected by Projects in the
MUSICK MTN. 7 1/2 Minute Quad**

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Amphibians

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

Birds

Haliaeetus leucocephalus - bald eagle (T)

Species of Concern

Invertebrates

Philotiella speciosa bohartorum - Bohart's blue butterfly (SC)

Tetrix sierrana - Sierra pygmy grasshopper (SC)

Fish

Lampetra hubbsi - Kern brook lamprey (SC)

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Hydromantes platycephalus - Mount Lyell salamander (SC)

Reptiles

Clemmys marmorata marmorata - northwestern pond turtle (SC)

Clemmys marmorata pallida - southwestern pond turtle (SC)

Birds

Accipiter gentilis - northern goshawk (SC)

Baeolophus inornatus - oak titmouse (SLC)

Calypte costae - Costa's hummingbird (SC)

Carduelis lawrencei - Lawrence's goldfinch (SC)

Chaetura vauxi - Vaux's swift (SC)

Cinclus mexicanus - American dipper (SLC)

Cypseloides niger - black swift (SC)

Empidonax traillii brewsteri - little willow flycatcher (CA)

Falco peregrinus anatum - American peregrine falcon (D)

Melanerpes lewis - Lewis' woodpecker (SC)

Numenius americanus - long-billed curlew (SC)

Otus flammeolus - flammulated owl (SC)

Picoides albolarvatus - white-headed woodpecker (SC)

Selasphorus rufus - rufous hummingbird (SC)

Strix occidentalis occidentalis - California spotted owl (SC)

Toxostoma redivivum - California thrasher (SC)

Mammals

Euderma maculatum - spotted bat (SC)

Eumops perotis californicus - greater western mastiff-bat (SC)

Martes americana - American (=pine) marten (SC)

Martes pennanti - fisher (SC)

Myotis ciliolabrum - small-footed myotis bat (SC)

Myotis evotis - long-eared myotis bat (SC)

Myotis thysanodes - fringed myotis bat (SC)

Myotis volans - long-legged myotis bat (SC)

Myotis yumanensis - Yuma myotis bat (SC)

Vulpes vulpes necator - Sierra Nevada red fox (CA)

Plants

Collomia rawsoniana - Rawson's flaming-trumpet (SC)

Lathyrus jepsonii var. *jepsonii* - delta tule-pea (SC)

Lupinus citrinus var. *citrinus* - orange lupine (SC)

Species with Critical Habitat Proposed or Designated in this Quad
None

**Federal Endangered and Threatened Species that
may be Affected by Projects in the
MAMMOTH POOL DAM 7 1/2 Minute Quad**

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Candidate Species

Amphibians

Rana muscosa - mountain yellow-legged frog (C)

Species of Concern

Invertebrates

Hydroporus leechi - Leech's skyline diving beetle (SC)

Philotiella speciosa bohartorum - Bohart's blue butterfly (SC)

Tetrix sierrana - Sierra pygmy grasshopper (SC)

Fish

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Hydromantes platycephalus - Mount Lyell salamander (SC)

Birds

Accipiter gentilis - northern goshawk (SC)
Baeolophus inornatus - oak titmouse (SLC)
Carduelis lawrencei - Lawrence's goldfinch (SC)
Cinclus mexicanus - American dipper (SLC)
Cypseloides niger - black swift (SC)
Empidonax traillii brewsteri - little willow flycatcher (CA)
Falco peregrinus anatum - American peregrine falcon (D)
Melanerpes lewis - Lewis' woodpecker (SC)
Numenius americanus - long-billed curlew (SC)
Otus flammeolus - flammulated owl (SC)
Picoides albolarvatus - white-headed woodpecker (SC)
Selasphorus rufus - rufous hummingbird (SC)
Strix occidentalis occidentalis - California spotted owl (SC)

Mammals

Euderma maculatum - spotted bat (SC)
Eumops perotis californicus - greater western mastiff-bat (SC)
Gulo gulo luteus - California wolverine (CA)
Martes americana - American (=pine) marten (SC)
Martes pennanti - fisher (SC)
Myotis ciliolabrum - small-footed myotis bat (SC)
Myotis evotis - long-eared myotis bat (SC)
Myotis thysanodes - fringed myotis bat (SC)
Myotis volans - long-legged myotis bat (SC)
Myotis yumanensis - Yuma myotis bat (SC)
Vulpes vulpes necator - Sierra Nevada red fox (CA)

Plants

Camissonia sierrae ssp. *alticola* - Mono Hot Springs evening-primrose (SC)

Collomia rawsoniana - Rawson's flaming-trumpet (SC)

Lewisia disepala - Yosemite lewisia (SC)

Species with Critical Habitat Proposed or Designated in this Quad
None

**Federal Endangered and Threatened Species that
may be Affected by Projects in the
NORTH FORK 7 1/2 Minute Quad**

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Invertebrates

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Amphibians

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

Birds

Haliaeetus leucocephalus - bald eagle (T)

Proposed Species

Amphibians

Ambystoma californiense - California tiger salamander (PT)

Species of Concern

Invertebrates

Lytta molesta - molestan blister beetle (SC)

Philotiella speciosa bohartorum - Bohart's blue butterfly (SC)

Tetrix sierrana - Sierra pygmy grasshopper (SC)

Fish

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Rana boylei - foothill yellow-legged frog (SC)

Reptiles

Clemmys marmorata marmorata - northwestern pond turtle (SC)

Clemmys marmorata pallida - southwestern pond turtle (SC)

Phrynosoma coronatum frontale - California horned lizard (SC)

Birds

Accipiter gentilis - northern goshawk (SC)

Agelaius tricolor - tricolored blackbird (SC)

Athene cunicularia hypugaea - western burrowing owl (SC)

Baeolophus inornatus - oak titmouse (SLC)

Calypte costae - Costa's hummingbird (SC)

Carduelis lawrencei - Lawrence's goldfinch (SC)

Chaetura vauxi - Vaux's swift (SC)

Cypseloides niger - black swift (SC)

Empidonax traillii brewsteri - little willow flycatcher (CA)

Falco peregrinus anatum - American peregrine falcon (D)

Lanius ludovicianus - loggerhead shrike (SC)

Melanerpes lewis - Lewis' woodpecker (SC)

Numenius americanus - long-billed curlew (SC)

Picoides nuttallii - Nuttall's woodpecker (SLC)

Selasphorus rufus - rufous hummingbird (SC)

Toxostoma redivivum - California thrasher (SC)

Mammals

Corynorhinus (=Plecotus) townsendii townsendii - Pacific western big-eared bat (SC)

Euderma maculatum - spotted bat (SC)

Eumops perotis californicus - greater western mastiff-bat (SC)

Martes americana - American (=pine) marten (SC)

Myotis ciliolabrum - small-footed myotis bat (SC)

Myotis evotis - long-eared myotis bat (SC)

Myotis thysanodes - fringed myotis bat (SC)

Myotis volans - long-legged myotis bat (SC)

Myotis yumanensis - Yuma myotis bat (SC)

Onychomys torridus ramona - Southern grasshopper mouse (SC)

Perognathus inornatus - San Joaquin pocket mouse (SC)

Plants

Carpenteria californica - carpenteria (CA)

Gratiola heterosepala - Boggs Lake hedge-hyssop (CA)

Species with Critical Habitat Proposed or Designated in this Quad

vernal pool invertebrates (PX)

vernal pool plants (PX)

**Federal Endangered and Threatened Species that
may be Affected by Projects in the
SQUAW DOME 7 1/2 Minute Quad**

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus (=Salmo) clarki henshawi - Lahontan cutthroat trout (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Candidate Species

Amphibians

Bufo canorus - Yosemite toad (C)

Rana muscosa - mountain yellow-legged frog (C)

Species of Concern

Invertebrates

Hydroporus leechi - Leech's skyline diving beetle (SC)

Philotiella speciosa bohartorum - Bohart's blue butterfly (SC)

Tetrix sierrana - Sierra pygmy grasshopper (SC)

Fish

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Hydromantes platycephalus - Mount Lyell salamander (SC)

Birds

Accipiter gentilis - northern goshawk (SC)

Baeolophus inornatus - oak titmouse (SLC)

Cinclus mexicanus - American dipper (SLC)

Cypseloides niger - black swift (SC)

Empidonax traillii brewsteri - little willow flycatcher (CA)

Falco peregrinus anatum - American peregrine falcon (D)

Melanerpes lewis - Lewis' woodpecker (SC)

Numenius americanus - long-billed curlew (SC)

Otus flammeolus - flammulated owl (SC)

Picoides albolarvatus - white-headed woodpecker (SC)

Selasphorus rufus - rufous hummingbird (SC)

Strix occidentalis occidentalis - California spotted owl (SC)

Mammals

Euderma maculatum - spotted bat (SC)

Eumops perotis californicus - greater western mastiff-bat (SC)

Gulo gulo luteus - California wolverine (CA)

Martes americana - American (=pine) marten (SC)

Martes pennanti - fisher (SC)

Myotis ciliolabrum - small-footed myotis bat (SC)

Myotis evotis - long-eared myotis bat (SC)

Myotis thysanodes - fringed myotis bat (SC)

Myotis volans - long-legged myotis bat (SC)

Myotis yumanensis - Yuma myotis bat (SC)

Vulpes vulpes necator - Sierra Nevada red fox (CA)

Plants

Camissonia sierrae ssp. *alticola* - Mono Hot Springs evening-primrose (SC)

Lewisia disepala - Yosemite lewisia (SC)

Trifolium bolanderi - parasol (=Bolander's) clover (SC)

Species with Critical Habitat Proposed or Designated in this Quad
None

**Federal Endangered and Threatened Species that
may be Affected by Projects in the
SHAVER LAKE 7 1/2 Minute Quad**

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Fish

Hypomesus transpacificus - delta smelt (T)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Amphibians

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

Birds

Haliaeetus leucocephalus - bald eagle (T)

Species of Concern

Invertebrates

Oravelia pege - Dry Creek cliff strider bug (SC)

Fish

Lampetra hubbsi - Kern brook lamprey (SC)

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Rana boylei - foothill yellow-legged frog (SC)

Reptiles

Clemmys marmorata marmorata - northwestern pond turtle (SC)

Clemmys marmorata pallida - southwestern pond turtle (SC)

Birds

Accipiter gentilis - northern goshawk (SC)
Agelaius tricolor - tricolored blackbird (SC)
Athene cunicularia hypugaea - western burrowing owl (SC)
Baeolophus inornatus - oak titmouse (SLC)
Calypte costae - Costa's hummingbird (SC)
Carduelis lawrencei - Lawrence's goldfinch (SC)
Chaetura vauxi - Vaux's swift (SC)
Cinclus mexicanus - American dipper (SLC)
Cypseloides niger - black swift (SC)
Empidonax traillii brewsteri - little willow flycatcher (CA)
Falco peregrinus anatum - American peregrine falcon (D)
Melanerpes lewis - Lewis' woodpecker (SC)
Numenius americanus - long-billed curlew (SC)
Otus flammeolus - flammulated owl (SC)
Picoides nuttallii - Nuttall's woodpecker (SLC)
Selasphorus rufus - rufous hummingbird (SC)
Strix occidentalis occidentalis - California spotted owl (SC)
Toxostoma redivivum - California thrasher (SC)

Mammals

Euderma maculatum - spotted bat (SC)
Eumops perotis californicus - greater western mastiff-bat (SC)
Martes americana - American (=pine) marten (SC)
Martes pennanti - fisher (SC)
Myotis ciliolabrum - small-footed myotis bat (SC)
Myotis evotis - long-eared myotis bat (SC)

Myotis thysanodes - fringed myotis bat (SC)

Myotis volans - long-legged myotis bat (SC)

Myotis yumanensis - Yuma myotis bat (SC)

Vulpes vulpes necator - Sierra Nevada red fox (CA)

Plants

Carpenteria californica - carpenteria (CA)

Lewisia disepala - Yosemite lewisia (SC)

Lupinus citrinus var. *citrinus* - orange lupine (SC)

Species with Critical Habitat Proposed or Designated in this Quad
None

**Federal Endangered and Threatened Species that
may be Affected by Projects in the
SHARKTOOTH PEAK 7 1/2 Minute Quad**

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus (=Salmo) clarki seleniris - Paiute cutthroat trout (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Ovis canadensis californiana - Sierra Nevada (=California) bighorn sheep (E)

Candidate Species

Amphibians

Bufo canorus - Yosemite toad (C)

Rana muscosa - mountain yellow-legged frog (C)

Species of Concern

Fish

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Hydromantes platycephalus - Mount Lyell salamander (SC)

Birds

Accipiter gentilis - northern goshawk (SC)
Baeolophus inornatus - oak titmouse (SLC)
Cinclus mexicanus - American dipper (SLC)
Cypseloides niger - black swift (SC)
Empidonax traillii brewsteri - little willow flycatcher (CA)
Falco peregrinus anatum - American peregrine falcon (D)
Melanerpes lewis - Lewis' woodpecker (SC)
Numenius americanus - long-billed curlew (SC)
Otus flammeolus - flammulated owl (SC)
Picoides albolarvatus - white-headed woodpecker (SC)
Selasphorus rufus - rufous hummingbird (SC)
Strix occidentalis occidentalis - California spotted owl (SC)

Mammals

Euderma maculatum - spotted bat (SC)
Martes pennanti - fisher (SC)
Myotis ciliolabrum - small-footed myotis bat (SC)
Myotis evotis - long-eared myotis bat (SC)
Myotis thysanodes - fringed myotis bat (SC)
Myotis volans - long-legged myotis bat (SC)
Myotis yumanensis - Yuma myotis bat (SC)
Sorex lyelli - Mt. Lyell shrew (SC)
Vulpes vulpes necator - Sierra Nevada red fox (CA)

Species with Critical Habitat Proposed or Designated in this Quad
None

**Federal Endangered and Threatened Species that
may be Affected by Projects in the
WARD MOUNTAIN 7 1/2 Minute Quad**

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Fish

Hypomesus transpacificus - delta smelt (T)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Candidate Species

Amphibians

Bufo canorus - Yosemite toad (C)

Rana muscosa - mountain yellow-legged frog (C)

Species of Concern

Invertebrates

Hydroporus hirsutus - Woolly hydroporus diving beetle (SC)

Fish

Lampetra hubbsi - Kern brook lamprey (SC)

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Hydromantes platycephalus - Mount Lyell salamander (SC)

Birds

Accipiter gentilis - northern goshawk (SC)

Baeolophus inornatus - oak titmouse (SLC)
Cinclus mexicanus - American dipper (SLC)
Cypseloides niger - black swift (SC)
Empidonax traillii brewsteri - little willow flycatcher (CA)
Falco peregrinus anatum - American peregrine falcon (D)
Melanerpes lewis - Lewis' woodpecker (SC)
Numenius americanus - long-billed curlew (SC)
Otus flammeolus - flammulated owl (SC)
Picoides albolarvatus - white-headed woodpecker (SC)
Selasphorus rufus - rufous hummingbird (SC)
Strix occidentalis occidentalis - California spotted owl (SC)

Mammals

Euderma maculatum - spotted bat (SC)
Eumops perotis californicus - greater western mastiff-bat (SC)
Martes pennanti - fisher (SC)
Myotis ciliolabrum - small-footed myotis bat (SC)
Myotis evotis - long-eared myotis bat (SC)
Myotis thysanodes - fringed myotis bat (SC)
Myotis volans - long-legged myotis bat (SC)
Myotis yumanensis - Yuma myotis bat (SC)
Vulpes vulpes necator - Sierra Nevada red fox (CA)

Plants

Camissonia sierrae ssp. *alticola* - Mono Hot Springs evening-primrose (SC)
Trifolium bolanderi - parasol (=Bolander's) clover (SC)

Species with Critical Habitat Proposed or Designated in this Quad
None

Federal Endangered and Threatened Species that may be affected by projects in Fresno County

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Invertebrates

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packardii - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus (=Salmo) *clarki henshawi* - Lahontan cutthroat trout (T)

Oncorhynchus (=Salmo) *clarki seleniris* - Paiute cutthroat trout (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Amphibians

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

Reptiles

Gambelia (=Crotaphytus) *sila* - blunt-nosed leopard lizard (E)

Thamnophis gigas - giant garter snake (T)

Birds

Gymnogyps californianus - California condor (E)

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Dipodomys ingens - giant kangaroo rat (E)

Dipodomys nitratoides exilis - Fresno kangaroo rat (E)

Dipodomys nitratoides nitratoides - Tipton kangaroo rat (E)

Neotoma fuscipes riparia - riparian (San Joaquin Valley) woodrat (E)

Ovis canadensis californiana - Sierra Nevada (=California) bighorn sheep (E)

Vulpes macrotis mutica - San Joaquin kit fox (E)

Plants

Calyptridium pulchellum - Mariposa pussy-paws (T)

Camissonia benitensis - San Benito evening-primrose (T)

Castilleja campestris ssp. *succulenta* - succulent (=fleshy) owl's-clover (T)

Caulanthus californicus - California jewelflower (E)

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

Eriastrum hooveri - Hoover's eriastrum (=woolly-star) (T)

Monolopia congdonii (= *Lembertia congdonii*) - San Joaquin woolly-threads (E)

Orcuttia inaequalis - San Joaquin Valley Orcutt grass (T)

Pseudobahia bahiifolia - Hartweg's golden sunburst (E)

Pseudobahia peirsonii - San Joaquin adobe sunburst (T)

Sidalcea keckii - Keck's checker-mallow (=checkerbloom) (E)

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

Proposed Species

Amphibians

Ambystoma californiense - California tiger salamander (PT)

Birds

Charadrius montanus - mountain plover (PT)

Candidate Species

Fish

Acipenser medirostris - green sturgeon (C)

Amphibians

Bufo canorus - Yosemite toad (C)

Rana muscosa - mountain yellow-legged frog (C)

Birds

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

Plants

Botrychium lineare - slender Moonwort (= narrowleaf grapefern) (C)

Species of Concern

Invertebrates

Aegialia concinna - Ciervo aegialian scarab beetle (SC)

Branchinecta mesovallensis - Midvalley fairy shrimp (SC)

Cicindela tranquebarica ssp. - San Joaquin tiger beetle (SC)

Coelus gracilis - San Joaquin dune beetle (SC)

Cryptochia excella - Kings Canyon cryptochian caddisfly (SC)

Hydroporus hirsutus - Woolly hydroporus diving beetle (SC)

Linderiella occidentalis - California linderiella fairy shrimp (SC)

Lytta hoppingi - Hopping's blister beetle (SC)

Lytta moesta - moestan blister beetle (SC)

Lytta molesta - molestan blister beetle (SC)

Lytta morrisoni - Morrison's blister beetle (SC)

Oravelia pege - Dry Creek cliff strider bug (SC)

Philotiella speciosa bohartorum - Bohart's blue butterfly (SC)

Tetrix sierrana - Sierra pygmy grasshopper (SC)

Fish

Lampetra ayresi - river lamprey (SC)

Lampetra hubbsi - Kern brook lamprey (SC)

Lampetra tridentata - Pacific lamprey (SC)

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Hydromantes platycephalus - Mount Lyell salamander (SC)

Rana boylei - foothill yellow-legged frog (SC)

Spea hammondi - western spadefoot toad (SC)

Reptiles

Anniella pulchra pulchra - silvery legless lizard (SC)

Clemmys marmorata marmorata - northwestern pond turtle (SC)

Clemmys marmorata pallida - southwestern pond turtle (SC)

Masticophis flagellum ruddocki - San Joaquin coachwhip (=whipsnake) (SC)

Phrynosoma coronatum frontale - California horned lizard (SC)

Birds

Accipiter gentilis - northern goshawk (SC)

Agelaius tricolor - tricolored blackbird (SC)

Athene cunicularia hypugaea - western burrowing owl (SC)

Baeolophus inornatus - oak titmouse (SLC)

Botaurus lentiginosus - American bittern (SC)

Branta canadensis leucopareia - Aleutian Canada goose (D)

Buteo regalis - ferruginous hawk (SC)

Buteo Swainsoni - Swainson's hawk (CA)

Calypte costae - Costa's hummingbird (SC)

Carduelis lawrencei - Lawrence's goldfinch (SC)
Chaetura vauxi - Vaux's swift (SC)
Cinclus mexicanus - American dipper (SLC)
Contopus cooperi - olive-sided flycatcher (SC)
Cypseloides niger - black swift (SC)
Elanus leucurus - white-tailed (=black shouldered) kite (SC)
Empidonax traillii brewsteri - little willow flycatcher (CA)
Falco peregrinus anatum - American peregrine falcon (D)
Grus canadensis tabida - greater sandhill crane (CA)
Lanius ludovicianus - loggerhead shrike (SC)
Melanerpes lewis - Lewis' woodpecker (SC)
Numenius americanus - long-billed curlew (SC)
Otus flammeolus - flammulated owl (SC)
Picoides albolarvatus - white-headed woodpecker (SC)
Picoides nuttallii - Nuttall's woodpecker (SLC)
Plegadis chihi - white-faced ibis (SC)
Riparia riparia - bank swallow (CA)
Selasphorus rufus - rufous hummingbird (SC)
Sphyrapicus ruber - red-breasted sapsucker (SC)
Strix occidentalis occidentalis - California spotted owl (SC)
Toxostoma lecontei macmillanorum - San Joaquin LeConte's thrasher (SC)
Toxostoma redivivum - California thrasher (SC)

Mammals

Ammospermophilus nelsoni - San Joaquin (=Nelson's) antelope squirrel (CA)
Corynorhinus (=Plecotus) townsendii pallescens - pale Townsend's big-eared bat (SC)

Corynorhinus (=Plecotus) townsendii townsendii - Pacific western big-eared bat (SC)

Dipodomys nitratoides brevinasus - short-nosed kangaroo rat (SC)

Euderma maculatum - spotted bat (SC)

Eumops perotis californicus - greater western mastiff-bat (SC)

Gulo gulo luteus - California wolverine (CA)

Martes americana - American (=pine) marten (SC)

Martes pennanti - fisher (SC)

Myotis ciliolabrum - small-footed myotis bat (SC)

Myotis evotis - long-eared myotis bat (SC)

Myotis thysanodes - fringed myotis bat (SC)

Myotis volans - long-legged myotis bat (SC)

Myotis yumanensis - Yuma myotis bat (SC)

Onychomys torridus ramona - Southern grasshopper mouse (SC)

Onychomys torridus tularensis - Tulare grasshopper mouse (SC)

Perognathus inornatus - San Joaquin pocket mouse (SC)

Sorex lyelli - Mt. Lyell shrew (SC)

Vulpes vulpes necator - Sierra Nevada red fox (CA)

Plants

Acanthomintha obovata ssp. obovata - obovate-leaved thornmint (SC)

Amsinckia vernicosa var. furcata - forked fiddleneck (SLC)

Arabis bodiensis - Bodie Hills rock cress (SC)

Astragalus monoensis var. ravenii - Raven's milk-vetch (SC)

Atriplex cordulata - heartscale (SC)

Atriplex depressa - brittlescale (SC)

Atriplex minuscula - lesser saltscale (SC)

Atriplex subtilis - subtle orache (SLC)

Atriplex vallicola - Lost Hills saltbush (=crownscale) (SC)

Calystegia collina ssp. *venusta* - South Coast Range morning-glory (SLC)

Camissonia sierrae ssp. *alticola* - Mono Hot Springs evening-primrose (SC)

Carpenteria californica - carpenteria (CA)

Caulanthus coulteri var. *lemmonii* - Lemmon's jewelflower (SLC)

Chorizanthe biloba var. *immemora* - San Benito spineflower (SC)

Cordylanthus tenuis ssp. *barbatus* - Fresno County bird's-beak (SC)

Deinandra halliana - Hall's tarplant (SC)

Delphinium recurvatum - recurved larkspur (SC)

Erigeron multiceps - Kern River daisy (SC)

Eriogonum gossypinum - cottony buckwheat (SLC)

Eriogonum nudum var. *murinum* - mouse buckwheat (SC)

Eriogonum nudum var. *regirivum* - Kings River buckwheat (SLC)

Eryngium spinosepalum - spiny-sepaled coyote-thistle (=button-celery) (SC)

Fritillaria agrestis - stinkbells (SLC)

Galium andrewsii ssp. *gatense* - serpentine bedstraw (SLC)

Gilia yorkii - Monarch gilia (SLC)

Gratiola heterosepala - Boggs Lake hedge-hyssop (CA)

Hulsea brevifolia - short-leaved hulsea (=shortleaf alpinegold) (SLC)

Ivesia campestris - field ivesia (=field mousetail) (SLC)

Lathyrus jepsonii var. *jepsonii* - delta tule-pea (SC)

Layia discoidea - rayless layia (SC)

Layia heterotricha - pale-yellow layia (SC)

Layia munzii - Munz's tidy-tips (SC)

Atriplex subtilis - subtle orache (SLC)

Atriplex vallicola - Lost Hills saltbush (=crownscale) (SC)

Calystegia collina ssp. *venusta* - South Coast Range morning-glory (SLC)

Camissonia sierrae ssp. *alticola* - Mono Hot Springs evening-primrose (SC)

Carpenteria californica - carpenteria (CA)

Caulanthus coulteri var. *lemmonii* - Lemmon's jewelflower (SLC)

Chorizanthe biloba var. *immemora* - San Benito spineflower (SC)

Cordylanthus tenuis ssp. *barbatus* - Fresno County bird's-beak (SC)

Deinandra halliana - Hall's tarplant (SC)

Delphinium recurvatum - recurved larkspur (SC)

Erigeron multiceps - Kern River daisy (SC)

Eriogonum gossypinum - cottony buckwheat (SLC)

Eriogonum nudum var. *murinum* - mouse buckwheat (SC)

Eriogonum nudum var. *regirivum* - Kings River buckwheat (SLC)

Eryngium spinosepalum - spiny-sepaled coyote-thistle (=button-celery) (SC)

Fritillaria agrestis - stinkbells (SLC)

Galium andrewsii ssp. *gatense* - serpentine bedstraw (SLC)

Gilia yorkii - Monarch gilia (SLC)

Gratiola heterosepala - Boggs Lake hedge-hyssop (CA)

Hulsea brevifolia - short-leaved hulsea (=shortleaf alpinegold) (SLC)

Ivesia campestris - field ivesia (=field mousetail) (SLC)

Lathyrus jepsonii var. *jepsonii* - delta tule-pea (SC)

Layia discoidea - rayless layia (SC)

Layia heterotricha - pale-yellow layia (SC)

Layia munzii - Munz's tidy-tips (SC)

Lepidium jaredii var. *album* - Panoche peppergrass (SC)
Lewisia disepala - Yosemite lewisia (SC)
Lewisia longipetala - long-petaled lewisia (SC)
Linanthus serrulatus - Madera linanthus (SLC)
Lupinus citrinus var. *citrinus* - orange lupine (SC)
Madia radiata - showy (=golden) madia (SC)
Malacothamnus aboriginum - Indian Valley (=gray) bush mallow (SLC)
Mimulus gracilipes - slender-stalked monkeyflower (SLC)
Ribes menziesii var. *ixoderme* - aromatic canyon gooseberry (SLC)
Sagittaria sanfordii - valley sagittaria (=Sanford's arrowhead) (SC)
Schizymenium shevockii - No common name (SLC)
Streptanthus fenestratus - Tehipite Valley jewelflower (SC)
Streptanthus gracilis - alpine streptanthus (=jewel-flower) (SC)
Trifolium bolanderi - parasol (=Bolander's) clover (SC)

Species with Critical Habitat Proposed or Designated in this County

Fresno kangaroo rat (E)
Keck's checker-mallow (PX)
vernal pool invertebrates (PX)
vernal pool plants (PX)

Federal Endangered and Threatened Species that may be affected by projects in Madera County

Database Last Updated: June 5, 2003

Today's Date is: July 15, 2003

Listed Species

Invertebrates

Branchinecta longiantenna - longhorn fairy shrimp (E)

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packardii - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus (=Salmo) *clarki henshawi* - Lahontan cutthroat trout (T)

Oncorhynchus (=Salmo) *clarki seleniris* - Paiute cutthroat trout (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Pogonichthys macrolepidotus - Sacramento splittail (T)

Amphibians

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

Reptiles

Gambelia (=Crotaphytus) *sila* - blunt-nosed leopard lizard (E)

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Dipodomys nitratoides exilis - Fresno kangaroo rat (E)

Vulpes macrotis mutica - San Joaquin kit fox (E)

Plants

Calyptridium pulchellum - Mariposa pussy-paws (T)

Castilleja campestris ssp. *succulenta* - succulent (=fleshy) owl's-clover (T)

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

Orcuttia inaequalis - San Joaquin Valley Orcutt grass (T)

Orcuttia pilosa - hairy Orcutt grass (E)

Pseudobahia bahiifolia - Hartweg's golden sunburst (E)

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

Proposed Species

Amphibians

Ambystoma californiense - California tiger salamander (PT)

Birds

Charadrius montanus - mountain plover (PT)

Candidate Species

Fish

Acipenser medirostris - green sturgeon (C)

Amphibians

Bufo canorus - Yosemite toad (C)

Rana muscosa - mountain yellow-legged frog (C)

Birds

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

Plants

Botrychium lineare - slender Moonwort (= narrowleaf grapefern) (C)

Species of Concern

Invertebrates

Atractelmis wawona - Wawona riffle beetle (SC)

Branchinecta mesovallensis - Midvalley fairy shrimp (SC)

Cicindela tranquebarica ssp. - San Joaquin tiger beetle (SC)

Hydroporus leechi - Leech's skyline diving beetle (SC)

Linderiella occidentalis - California linderiella fairy shrimp (SC)

Lytta molesta - molestan blister beetle (SC)

Monadenia hillebrandi yosemitensis - Yosemite mariposa sideband snail (SC)

Philotiella speciosa bohartorum - Bohart's blue butterfly (SC)

Tetrix sierrana - Sierra pygmy grasshopper (SC)

Fish

Lampetra ayresi - river lamprey (SC)

Lampetra hubbsi - Kern brook lamprey (SC)

Spirinchus thaleichthys - longfin smelt (SC)

Amphibians

Hydromantes platycephalus - Mount Lyell salamander (SC)

Rana boylei - foothill yellow-legged frog (SC)

Spea hammondi - western spadefoot toad (SC)

Reptiles

Anniella pulchra pulchra - silvery legless lizard (SC)

Clemmys marmorata marmorata - northwestern pond turtle (SC)

Clemmys marmorata pallida - southwestern pond turtle (SC)

Phrynosoma coronatum frontale - California horned lizard (SC)

Sceloporus graciosus graciosus - northern sagebrush lizard (SC)

Birds

Accipiter gentilis - northern goshawk (SC)

Agelaius tricolor - tricolored blackbird (SC)

Amphispiza belli belli - Bell's sage sparrow (SC)

Athene cunicularia hypugaea - western burrowing owl (SC)

Baeolophus inornatus - oak titmouse (SLC)

Botaurus lentiginosus - American bittern (SC)

Branta canadensis leucopareia - Aleutian Canada goose (D)

Buteo regalis - ferruginous hawk (SC)

Buteo Swainsoni - Swainson's hawk (CA)

Calypte costae - Costa's hummingbird (SC)

Carduelis lawrencei - Lawrence's goldfinch (SC)

Chaetura vauxi - Vaux's swift (SC)

Cinclus mexicanus - American dipper (SLC)

Contopus cooperi - olive-sided flycatcher (SC)

Cypseloides niger - black swift (SC)

Elanus leucurus - white-tailed (=black shouldered) kite (SC)

Empidonax traillii brewsteri - little willow flycatcher (CA)

Falco peregrinus anatum - American peregrine falcon (D)

Grus canadensis tabida - greater sandhill crane (CA)

Histrionicus histrionicus - Harlequin duck (SC)

Lanius ludovicianus - loggerhead shrike (SC)

Melanerpes lewis - Lewis' woodpecker (SC)

Numenius americanus - long-billed curlew (SC)

Otus flammeolus - flammulated owl (SC)
Picoides albolarvatus - white-headed woodpecker (SC)
Picoides nuttallii - Nuttall's woodpecker (SLC)
Plegadis chihi - white-faced ibis (SC)
Riparia riparia - bank swallow (CA)
Selasphorus rufus - rufous hummingbird (SC)
Sphyrapicus ruber - red-breasted sapsucker (SC)
Strix occidentalis occidentalis - California spotted owl (SC)
Toxostoma redivivum - California thrasher (SC)

Mammals

Ammospermophilus nelsoni - San Joaquin (=Nelson's) antelope squirrel (CA)
Corynorhinus (=Plecotus) townsendii pallescens - pale Townsend's big-eared bat (SC)
Corynorhinus (=Plecotus) townsendii townsendii - Pacific western big-eared bat (SC)
Dipodomys heermanni dixonii - Merced kangaroo rat (SC)
Dipodomys nitratoides brevinasus - short-nosed kangaroo rat (SC)
Euderma maculatum - spotted bat (SC)
Eumops perotis californicus - greater western mastiff-bat (SC)
Gulo gulo luteus - California wolverine (CA)
Lepus americanus tahoensis - Sierra Nevada snowshoe hare (SC)
Martes americana - American (=pine) marten (SC)
Martes pennanti - fisher (SC)
Myotis ciliolabrum - small-footed myotis bat (SC)
Myotis evotis - long-eared myotis bat (SC)
Myotis thysanodes - fringed myotis bat (SC)
Myotis volans - long-legged myotis bat (SC)

Myotis yumanensis - Yuma myotis bat (SC)

Onychomys torridus ramona - Southern grasshopper mouse (SC)

Perognathus inornatus - San Joaquin pocket mouse (SC)

Sorex lyelli - Mt. Lyell shrew (SC)

Vulpes vulpes necator - Sierra Nevada red fox (CA)

Plants

Atriplex cordulata - heartscale (SC)

Atriplex depressa - brittlescale (SC)

Atriplex minuscula - lesser saltscale (SC)

Atriplex subtilis - subtle orache (SLC)

Botrychium lunaria - common moonwort (SC)

Calycadenia hooveri - Hoover's caycadenia (SLC)

Camissonia sierrae ssp. *alticola* - Mono Hot Springs evening-primrose (SC)

Carpenteria californica - carpenteria (CA)

Clarkia australis - Small's southern clarkia (SC)

Collomia rawsoniana - Rawson's flaming-trumpet (SC)

Cryptantha hooveri - Hoover's cryptantha (SLC)

Delphinium hansenii ssp. *ewanianum* - Ewan's larkspur (SC)

Eriophyllum nubigenum - Yosemite woolly-sunflower (SC)

Eryngium spinosepalum - spiny-sepaled coyote-thistle (=button-celery) (SC)

Gratiola heterosepala - Boggs Lake hedge-hyssop (CA)

Hulsea brevifolia - short-leaved hulsea (=shortleaf alpinegold) (SLC)

Lewisia disepala - Yosemite lewisia (SC)

Linanthus grandiflorus - large-flowered (=flower) linanthus (SC)

Linanthus serrulatus - Madera linanthus (SLC)

Lupinus citrinus var. *citrinus* - orange lupine (SC)

Trifolium bolanderi - parasol (=Bolander's) clover (SC)

Species with Critical Habitat Proposed or Designated in this County

vernal pool invertebrates (PX)

vernal pool plants (PX)

Key:

(E) Endangered - Listed (in the Federal Register) 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 Marine 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.

(CA) Listed by the State of California but not by the Fish & Wildlife Service.

(D) Delisted - Species will be monitored for 5 years.

(SC) Species of Concern/(SLC) Species of Local Concern - Other species of concern to the Sacramento Fish Wildlife Office.

APPENDIX E

Sierra National Forest Sensitive Plant List

SIERRA NATIONAL FOREST SENSITIVE PLANT LIST

APRIL 2002

FEDERALLY LISTED PLANT TAXA

Calyptridium pulchellum (T)
Sidalcea keckii (E)

FOREST SERVICE SENSITIVE

Lichens

Hydrothyria venosa (AQUATIC)

Mosses

Bruchia bolanderi
Meesia triquetra
Meesia uliginosa

Vascular Plants

Allium yosemitense
Botrychium crenulatum
Botrychium lineare
Camissonia sierrae ssp. *alticola*
Carpenteria californica
Clarkia biloba ssp. *australis*
Clarkia lingulata
Collomia rawsoniana
Cypripedium montanum
Delphinium inopinum
Dicentra nevadensis
Draba sharsmithii
Epilobium howellii
Erigeron aequifolius
Eriogonum nudum var. *regirvum*
Eriogonum prattenianum var. *avium*
Eriophyllum congdonii
Erythronium pluriflorum
Heterotheca monarchensis
Hulsea brevifolia
Lewisia congdonii
Lewisia disepala
Lupinus citrinus var. *citrinus*
Mimulus filicaulis
Mimulus gracilipes
Mimulus pulchellus
Raillardiopsis muirii
Streptanthus fenestratus
Trifolium bolanderi
Viola pinetorum ssp. *griseum*

WATCH LIST

Angelica callii
Antennaria pulchella
Balsamorhiza macrolepis var. *m.*
Bolandra californica
Botrychium minganense
Botrychium simplex
Calystegia malacophylla var. *berryi*
Camissonia sierrae ssp. *sierrae*
Carex congdonii
Carex tompkinsii
Ceanothus fresnensis
Claytonia megarhiza
Claytonia palustris
Cordylanthus tenuis ssp. *barbatus*
Delphinium hansenii ssp. *ewanianum*
Draba sierrae
Drosera rotundifolia
Erigeron inornatus var. *keilii*
Erigeron mariposanus
(presumed extinct)
Eriophyllum lanatum var. *obovatum*
Hackelia sharsmithii
Horkelia parryi
Ivesia campestris
Ivesia unguiculata
Jamesia americana var. *rosea*
Jepsonia heterandra
Lilium humboldtii ssp. *humboldtii*
Linanthus serrulatus
Lupinus citrinus var. *deflexus*
Lupinus gracilentus
Madia yosemitana
Mimulus grayii
Mimulus inconspicuus
Mimulus laciniatus
Mimulus acutidens
Monardella candicans
Nemophila parviflora var. *quercifolia*
Perideridia bacigalupi
Phacelia orogenes
Plagiobothrys myosotoides
Polystichum lonchitis
Potamogeton epihydrus ssp. *nuttalii*
Rhyncospora californica
Ribes menziesii var. *ixoderme*
Sphenopholis obtusata
Streptanthus farnsworthianus
Veronica cusickii
Wyethia elata

APPENDIX F

Special-status Plants Potentially Occurring within the Study Area

Appendix TERR-3-F. Special-Status Plants Potentially Occurring within the Project Area

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Big Creek No. 1&2	Big Creek No. 2A, 8 & Eastwood	Big Creek No. 3	Big Creek No. 4	Portal	Vermilion Valley	Mammoth Pool	Reference Source	Potential for Occurrence
Federally Listed or Candidate and Other Status												
¹ <i>Botrychium lineare</i> slender moonwort	FC, FSS, CNPS 1B	Unknown when fertile	Lower montane coniferous forests, oak woodlands, and chaparral, open rocky slopes. 8,530 ft.	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	6	Unlikely to occur. Known in California from only one small occurrence near Piute Pass.
¹ <i>Calyptridium pulchellum</i> Mariposa pussypaws	FT, FSS, CNPS 1B	April-August	Cismontane woodland in shallow granite soils on granitic domes, restricted to exposed sites. 1,300-3,600 ft.	Unlikely	Potential	Potential	Potential	Unlikely	Unlikely	Unlikely	1,2,3,4,6	May occur.
<i>Castilleja campestris</i> ssp. <i>succulenta</i> succulent owl's-clover	FT, CE, CNPS 1B	April-May	Vernal pools. 164 – 2,460 ft.	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	1,2,3	Unlikely to occur due to lack of suitable habitat in the Project area.
<i>Orcuttia inaequalis</i> San Joaquin Valley Orcutt grass	FT, CE, CNPS 1B	April-September	Vernal pools. 98 – 2,477 ft.	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	1,2,3	Unlikely to occur due to lack of suitable habitat in the Project area.
<i>Sidalcea keckii</i> Keck's checkerbloom	FE, CNPS 1B	April-May	Cismontane woodland, valley and foothill grassland; serpentine and clay substrate. 393-1,394 ft.	Unlikely	Unlikely	Potential	Potential	Unlikely	Unlikely	Unlikely	6	May occur.
State Listed or Candidate and Other Status												
<i>Allium yosemitense</i> Yosemite onion	CR, FSS, CNPS 1B	April-July	Broadleaved upland forest, chaparral, cismontane woodland, lower montane coniferous forest; rocky, metamorphic substrate. 1,755-7,200 ft.	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	4,6,7	Unlikely to occur. Project area is outside of the known geographic range of the species.
<i>Carex tompkinsii</i> <i>Tompkin's sedge</i>	CR, FSW, CNPS 4	May-July	Chaparral, cismontane woodland, lower montane coniferous forest, upper montane coniferous forest; sometimes granitic substrate. 1,375-6,005 ft.	Potential	Potential	Potential	Potential	Unlikely	Potential	Potential	6	May occur.
¹ <i>Carpenteria californica</i> tree-anemone	CT, FSS, CNPS 1B	May-July	Cismontane woodland, chaparral. Endemic to Fresno County. Very localized on well-drained granitic soils, mostly on north-facing ravines and drainages. 1,500-4,000 ft.	Potential	Potential	Known	Known	Unlikely	Unlikely	Potential	1,2,3,4,5,6	May occur. There are known populations, outside the Project area in the vicinity of Powerhouse 3.
<i>Clarkia lingulata</i> Merced clarkia	CE, FSS, CNPS 1B	May-June	Chaparral, cismontane woodland. 1312-1492 ft.	Unlikely	Potential	Potential	Potential	Unlikely	Unlikely	Unlikely	4,6	May occur.
<i>Eriophyllum congdonii</i> Congdon's woolly sunflower	CR, FSS, FSC, CNPS 1B	May-June	Chaparral, cismontane woodland, lower montane coniferous forest: on metamorphic soils. 1,600-6,200 ft.	Potential	Potential	Potential	Unlikely	Unlikely	Unlikely	Potential	4,6	May occur.

Appendix TERR-3-F. Special-Status Plants Potentially Occurring within the Project Area

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Big Creek No. 1&2	Big Creek No. 2A, 8 & Eastwood	Big Creek No. 3	Big Creek No. 4	Portal	Vermilion Valley	Mammoth Pool	Reference Source	Potential for Occurrence
Federally Listed or Candidate and Other Status												
<i>Gratiola heterosepala</i> Boggs Lake hedge-hyssop	CE, CNPS 1B	April-August	Marshes and swamps (lake margins), vernal pools. 32-7,791 ft.	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	1,2,3, 7	Unlikely to occur. Project area is outside of the known geographic range of the species.
¹ <i>Lewisia congdonii</i> Congdon's lewisia	CR, FSS, CNPS 1B	April-June	Chaparral, cismontane woodland, lower montane coniferous forest, upper montane coniferous forest, granitic, moist places on metamorphic soils. 1,600-9,200 ft.	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	4,6	Unlikely to occur. Known from approximately six occurrences in the canyons of the Kings and Merced rivers.
<i>Lupinus citrinus</i> var. <i>deflexus</i> Mariposa lupine	CT, FSC, FSW, CNPS 1B	April-May	Chaparral, cismontane woodland; granitic, sandy substrate. 1,315-2,005 ft.	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	1,2,4,6	Unlikely to occur. This species is known from only six occurrences near Mariposa Creek.
Forest Service Sensitive and Other Status												
¹ <i>Botrychium crenulatum</i> scalloped moonwort	FSC, FSS, CNPS 2	Fertile June to July	Lower montane coniferous forests, oak woodlands, and chaparral, open rocky slopes. 4,900-10,765 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	6	May occur.
<i>Bruchia bolanderi</i> moss	FSS, CNPS 2	N/A	Lower montane coniferous forest, meadows and seeps, upper montane coniferous forest: damp soil. 5,575-9,190 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	2,4,6	May occur.
¹ <i>Camissonia sierrae</i> ssp. <i>Alticola</i> Mono Hot Springs evening primrose	FSC, FSS, CNPS 1B	May-August	Lower montane coniferous forest, upper montane coniferous forest: granitic, gravel and sand pans. 4,500-8,500 ft.	Potential	Known	Unlikely	Unlikely	Potential	Potential	Known	1,2,3,4,5,6	May occur. The following are known populations in the Project vicinity, but outside the Project area: 1.5 miles west of Mammoth Pool Reservoir; near Mono Hot Springs campground; near Bear Creek Diversion and Forebay; Mono Creek Diversion and Forebay; and in the vicinity of Florence Lake and Jackass Meadow.
<i>Clarkia biloba</i> ssp. <i>australis</i> Mariposa clarkia	FSC, FSS, CNPS 1B	May-July	Chaparral, cismontane woodland. 980-3,100 ft.	Potential	Potential	Potential	Unlikely	Unlikely	Unlikely	Potential	4,6	May occur.
¹ <i>Cypripedium montanum</i> mountain lady's slipper	FSS, CNPS 4	March-August	Broad-leaved upland and lower montane coniferous forests, moist or dry shaded slopes. 700-7,200 ft.	Potential	Potential	Potential	Potential	Potential	Potential	Potential	6	May occur.
¹ <i>Delphinium inopinum</i> unexpected larkspur	FSS, CNPS 4	May-July	Alpine boulder and rock fields at high elevations in rocky soil at the extreme southern boundary of the Sierra National Forest. 7,200-9,200 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	4,6	May occur.

Appendix TERR-3-F. Special-Status Plants Potentially Occurring within the Project Area

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Big Creek No. 1&2	Big Creek No. 2A, 8 & Eastwood	Big Creek No. 3	Big Creek No. 4	Portal	Vermilion Valley	Mammoth Pool	Reference Source	Potential for Occurrence
Federally Listed or Candidate and Other Status												
¹ <i>Dicentra nevadensis</i> Tulare County bleeding heart	FSS, CNPS 4	June-October	Subalpine coniferous forest in gravelly openings. 7,200-10,000 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	4,6	May occur.
¹ <i>Epilobium howellii</i> subalpine fireweed	FSS, CNPS 1B	July-August	Meadows, subalpine coniferous forest, wet meadows, mossy seeps. 6,500-9,000 ft.	Known	Potential	Unlikely	Unlikely	Known	Potential	Unlikely	1,2,4,5,6	May occur. There are known populations in the Project vicinity, but outside of the Project area, north of Huntington Lake just east of Line Creek and east of the Portal Forebay Distribution Line.
¹ <i>Erigeron aequifolius</i> Hall's daisy	FSS, CNPS 1B	July-August	Broad-leaved upland forest, lower and upper montane coniferous forest, pinyon-juniper woodland, rocky soils. 4,900-8,000 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	4,6	May occur.
<i>Eriogonum nudum</i> var. <i>regirivum</i> King's River buckwheat	FSS, FSC, CNPS 1B	August- November	Cismontane woodland; carbonate, rocky substrate. 490-985 ft.	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	4,6	Unlikely to occur. This species is known only from one occurrence in the Kings River Canyon.
¹ <i>Eriogonum prattenianum</i> var. <i>avium</i> Kettle Dome buckwheat	FSS, CNPS 4	June-August	Upper montane coniferous forest on granitic soils. 3,900-8,500 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	4,5,6	May occur. There is a known population in the Project vicinity, but outside the Project area, 1.5 miles west of Mammoth Pool Reservoir.
¹ <i>Erythronium pluriflorum</i> Shuteye Peak fawn lily	FSS, CNPS 1B	May-July	Upper montane coniferous forest, meadows, subalpine coniferous forest, rocky granitic outcrops and slopes. 6,758-8,366 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	2,4,6	May occur.
<i>Heterotheca monarchensis</i> monarch golden-aster	FSS, CNPS 1B	May-October	Cismontane woodland; carbonate substrate. 3,590-6,070 ft.	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	4,6	Unlikely to occur. This species is known from only two occurrences in the Kings River Canyon.

Appendix TERR-3-F. Special-Status Plants Potentially Occurring within the Project Area

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Big Creek No. 1&2	Big Creek No. 2A, 8 & Eastwood	Big Creek No. 3	Big Creek No. 4	Portal	Vermilion Valley	Mammoth Pool	Reference Source	Potential for Occurrence
Federally Listed or Candidate and Other Status												
¹ <i>Hulsea brevifolia</i> short-leaved hulsea	FSS, CNPS 1B	May-August	Granitic or volcanic soils in openings and under canopy in mixed conifer and red fir forest. 4,900-8,900 ft.	Known	Known	Unlikely	Unlikely	Potential	Potential	Unlikely	2,3,4,5,6	May occur. Known populations within the Project area include in Dowville Picnic Area and just east of Camp Olijato at Huntington Lake. There are known populations in the Project vicinity, but outside of the Project area, near: Pitman Diversion; Portal Powerhouse Energy Dissipater near Rancheria Creek; southwest of Huntington Lake on the road leading down to Big Creek Community; and within about a mile from the Big Creek Community.
¹ <i>Lewisia disepala</i> Yosemite lewisia	FSS, FSC, CNPS 1B	April-June	Lower montane coniferous forest, pinyon juniper woodland, upper montane coniferous forest, fine gravel on rock outcrops or domes. 4,250-11,000 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Known	1,2,3,4,5,6	May occur. The following are known populations in the Project vicinity, but outside the Project area; 1.5 miles west of Mammoth Pool Reservoir; and 0.75 miles southwest of the confluence of the South Fork of the San Joaquin and the San Joaquin River.
¹ <i>Lupinus citrinus</i> var. <i>citrinus</i> orange lupine	FSS, FSC, CNPS 1B	April-July	Chaparral, cismontane woodland, lower montane coniferous forest, rocky granitic outcrops, usually in open areas (forest openings), on flat to rolling terrain. 2,000-5,000 ft.	Unlikely	Potential	Potential	Potential	Unlikely	Unlikely	Potential	1,2,4,5,6	May occur. The following are known populations in the Project vicinity, but outside the Project area; 1-2 miles south of Shaver Lake; and within a mile of Million Dollar Mile Road on the east side of Railroad Grade Road.
¹ <i>Meesia triquetra</i> moss	FSS, CNPS 2	N/A	In bogs and wet woods. 6,000-8,000 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	2,4,6	May occur.
¹ <i>Meesia uliginosa</i> moss	FSS, CNPS 2	N/A	In bogs and rock fissures, usually in alpine or arctic regions, sometimes in the lowlands. 7,500-9,000 ft.	Unlikely	Potential	Unlikely	Unlikely	Unlikely	Potential	Unlikely	4,6	May occur.
<i>Mimulus filicaulis</i> slender-stemmed monkeyflower	FSS, FSC, CNPS 1B	April-August	Cismontane woodland, lower montane coniferous forest, meadows and seeps, upper montane coniferous forest; vernal mesic environments. 2,950-5,745 ft.	Potential	Potential	Unlikely	Unlikely	Unlikely	Unlikely	Potential	4,6	May occur.
¹ <i>Mimulus gracilipes</i> Slender-stalked monkeyflower	FSS, CNPS 1B	April-June	Lower and upper montane coniferous forest, pinyon-juniper woodlands; granitic sand substrate. 1,600-4,300 ft.	Potential	Potential	Potential	Potential	Unlikely	Unlikely	Potential	2,3,4,5,6	May occur.
<i>Mimulus pulchellus</i> pansy monkeyflower	FSS, CNPS 1B	May-July	Lower montane coniferous forest, meadows and seeps; vernal mesic environments. 1,965-6,565 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Potential	4,6	May occur.

Appendix TERR-3-F. Special-Status Plants Potentially Occurring within the Project Area

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Big Creek No. 1&2	Big Creek No. 2A, 8 & Eastwood	Big Creek No. 3	Big Creek No. 4	Portal	Vermilion Valley	Mammoth Pool	Reference Source	Potential for Occurrence
Federally Listed or Candidate and Other Status												
<i>Raillardiopsis muirii</i> Muir's tarplant	FSS, CNPS 1B	July-August	Chaparral (montane), lower montane coniferous forest, upper montane coniferous forest. 3,605-8,205 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	4,6	May occur.
<i>Streptanthus fenestratus</i> Tehipite Valley jewel-flower	FSS, FSC, CNPS 1B	April-July	Lower montane coniferous forest, upper montane coniferous forest. 3,490-5,745 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	4,6	May occur.
<i>Trifolium bolanderi</i> Bolander's clover	FSS, FSC, CNPS 1B	June-August	Lower montane coniferous forest, meadows and seeps, upper montane coniferous forest; mesic environments. 7,900-8,530 ft.	Unlikely	Potential	Unlikely	Unlikely	Unlikely	Potential	Unlikely	2,3,4,6	May occur.
¹ <i>Viola pinetorum</i> ssp. <i>Grisea</i> grey-leaved violet	FSS, CNPS 1B	April-July	Dry peaks and slopes in subalpine conifer forest and upper montane conifer forest. 4,875-11,050 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	2,4,6	May occur.
Other Status												
<i>Angelica callii</i> Call's angelica	FSW, CNPS 4	June-July	Cismontane woodland, lower montane coniferous forest; mesic environments. 3,600-6,565 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Potential	6	May occur.
<i>Antennaria pulchella</i> beautiful pussy-toes	FSW, CNPS 4	June-September	Alpine boulder and rock field (stream margins), meadows and seeps. 9,186-12,139 ft.	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	6	Unlikely to occur. The Project area is lower in elevation than the species' known range.
<i>Balsamorhiza macrolepis</i> var. <i>macrolepis</i> big-scale balsamroot	FSW, FSC, CNPS 1B	March-June	Chaparral, cismontane woodland, valley and foothill grassland; sometimes serpentinite substrate. 295-5,000 ft.	Potential	Potential	Potential	Potential	Unlikely	Unlikely	Potential	6	May occur.
<i>Bolandra californica</i> Sierra bolandra	FSW, CNPS 4	June-July	Lower montane coniferous forest, upper montane coniferous forest; mesic, rocky substrate. 3,200-8,040 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Potential	6	May occur.
¹ <i>Botrychium ascendens</i> unswept moonwort	FSC, CNPS 2	Fertile July to August	Lower montane coniferous forests, oak woodlands, and chaparral, open rocky slopes. 4,900-6,005 ft.	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely		Unlikely to occur. This species is known from only two occurrences in California: near Jonesville on the Butte and Tehama County border and south of Fallen Leaf Lake, El Dorado County.
¹ <i>Botrychium lunaria</i> common moonwort	FSC, CNPS 2	Fertile August	Lower montane coniferous forests, oak woodlands, and chaparral, open rocky slopes. 7,480-11,155 ft.	Unlikely	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely		May occur.

Appendix TERR-3-F. Special-Status Plants Potentially Occurring within the Project Area

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Big Creek No. 1&2	Big Creek No. 2A, 8 & Eastwood	Big Creek No. 3	Big Creek No. 4	Portal	Vermilion Valley	Mammoth Pool	Reference Source	Potential for Occurrence
Federally Listed or Candidate and Other Status												
<i>Botrychium minganense</i> Mingan moonwort	FSW, CNPS 2	Fertile July to August	Lower montane coniferous forests, oak woodlands, and chaparral, open rocky slopes. 4,900-6,005 ft.	Potential	Potential	Unlikely	Unlikely	Unlikely	Potential	Unlikely	6	May occur.
¹ <i>Botrychium montanum</i> western goblin	CNPS 2	Fertile July to August	Lower montane coniferous forests, oak woodlands, and chaparral, open rocky slopes. 4,900-6,005 ft.	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely		Unlikely to occur. This species is known in California only from four occurrences near Jonesville.
<i>Botrychium simplex</i> Yosemite moonwort	FSW	N/A	Lower montane coniferous forests, oak woodlands, and chaparral, open rocky slopes. 7,215-10,830 ft.	Unlikely	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	6	May occur.
<i>Calystegia malacophylla</i> var. <i>berryi</i> Berry's morning-glory	FSW, CNPS 3	July-August	Chaparral, lower montane coniferous forest. 2,000-8,010 ft.	Potential	Potential	Potential	Unlikely	Potential	Potential	Potential	6	May occur.
<i>Camissonia sierrae</i> ssp. <i>sierrae</i> Sierra's sun-cup	FSW, CNPS 4	April-June	Cismontane woodland, lower montane coniferous forest. 1,640-4,265 ft.	Potential	Potential	Potential	Potential	Unlikely	Unlikely	Potential	6	May occur.
<i>Carex congdonii</i> Congdon's sedge	FSW, CNPS 4	July-August	Alpine boulder and rock field, subalpine coniferous forest; rocky substrate. 8,530-12,795 ft.	Unlikely	Potential	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	6	May occur.
<i>Carex limosa</i> shore sedge	CNPS 2	June-August	Bogs and fens, lower montane coniferous forest, meadows and seeps, marshes and swamps, upper montane coniferous forest. 3,937-8,858 ft.	Potential	Potential	Potential	Unlikely	Potential	Potential	Potential	1,2	May occur.
<i>Carex praticola</i> meadow sedge	CNPS 2	May-July	Meadows and seeps; mesic environments. 0-10,498 ft.	Potential	Potential	Potential	Potential	Potential	Potential	Potential	1,2	May occur.
<i>Ceanothus fresnensis</i> Fresno ceanothus	FSW, CNPS 4	May-June	Cismontane woodland, lower montane coniferous forest. 2,950-6,565 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Potential	6	May occur.
<i>Claytonia megarhiza</i> fell-fields claytonia	FSW, CNPS 2	July-August	Alpine boulder and rock field, subalpine coniferous forest; rocky or gravelly substrate. 8,530-10,826 ft.	Unlikely	Potential	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	6	May occur.
<i>Claytonia palustris</i> marsh claytonia	FSW, CNPS 4	May-August	Meadows and seeps, mesic environments, marshes and swamps. 3,280-8,200 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Potential	6	May occur.

Appendix TERR-3-F. Special-Status Plants Potentially Occurring within the Project Area

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Big Creek No. 1&2	Big Creek No. 2A, 8 & Eastwood	Big Creek No. 3	Big Creek No. 4	Portal	Vermilion Valley	Mammoth Pool	Reference Source	Potential for Occurrence
Federally Listed or Candidate and Other Status												
¹ <i>Collomia rawsoniana</i> flaming trumpet	FSS, FSC, CNPS 1B	July-August	Riparian forest, lower montane coniferous forest on stabilized alluvium in riparian zones, at mid elevations along perennial streams north of the San Joaquin River. 2,500-7,200 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Potential	1,2,3,4,5,6	May occur. Known occurrences within the Project area include: west side of Mammoth Pool Reservoir, south of Chiquito Creek. There are known occurrences within the Project vicinity, but outside the Project area near: Rock Creek Diversion, Fish Creek, and Ross Creek Diversion.
<i>Cordylanthus tenuis</i> ssp. <i>barbatus</i> Fresno county bird's-beak	FSW, FSC, CNPS 4	July-August	Lower montane coniferous forest. 4,265-6,561 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Unlikely	Potential	6	May occur.
<i>Delphinium hansenii</i> ssp. <i>ewanianum</i> Ewan's larkspur	FSW, FSC, CNPS 4	March-May	Cismontane woodland, valley and foothill grassland; rocky substrate. 195-1,965 ft.	Unlikely	Potential	Potential	Potential	Unlikely	Unlikely	Unlikely	6	May occur.
<i>Didymodon norrisii</i> moss	CNPS 2	N/A	Cismontane woodland. Lower montane coniferous forest; intermittently mesic environments, rock substrate. 1,968-5,577 ft.	Potential	Potential	Potential	Unlikely	Unlikely	Unlikely	Potential	2	May occur.
<i>Draba sharsmithii</i> Mt. Whitney draba	CNPS 1B	July-August	Alpine boulder and rock field, subalpine coniferous forest. 11,007-12,992 ft.	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	2,6	Unlikely to occur. The Project area is lower in elevation than the species' known range.
<i>Draba sierrae</i> Sierra draba	FSW, CNPS 1B	June-August	Alpine boulder and rock field; granitic or carbonate substrate. 11,482-13,992 ft.	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	6	Unlikely to occur. The Project area is lower in elevation than the species' known range.
<i>Drosera rotundifolia</i> roundleaf sundew	FSW	June-September	Sphagnum bogs. 0-6,565 ft.	Potential	Potential	Potential	Potential	Potential	Potential	Potential	6	May occur.
<i>Erigeron inornatus</i> var. <i>keilii</i> Keil's daisy	FSW, CNPS 1B	June-September	Lower montane coniferous forest, meadows and seeps. 5,905-7,215 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	6	May occur.
<i>Erigeron mariposanus</i> Mariposa daisy	FSW, FSC, CNPS 1A	June-August	Cismontane woodland. 1,965-2,625 ft.	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	6	Unlikely to occur. This species is presumed extinct. Last seen in 1900.

Appendix TERR-3-F. Special-Status Plants Potentially Occurring within the Project Area

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Big Creek No. 1&2	Big Creek No. 2A, 8 & Eastwood	Big Creek No. 3	Big Creek No. 4	Portal	Vermilion Valley	Mammoth Pool	Reference Source	Potential for Occurrence
Federally Listed or Candidate and Other Status												
<i>Eriophyllum lanatum</i> var. <i>obovatum</i> Southern Sierra woolly sunflower	FSW, CNPS 4	June-July	Lower montane coniferous forest, upper montane coniferous forest. 4,265-8,205 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	6	May occur.
<i>Eryngium spinosepalum</i> Spiny-sepaled button celery	FSC, CNPS 1B	April-May	Valley and foothill grassland, vernal pools. 328-836 ft.	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	1	Unlikely to occur. The Project area is higher in elevation than the species' known range.
<i>Hackelia sharsmithii</i> Sharsmith's stickseed	FSW, CNPS 2	July-September	Alpine boulder and rock field, subalpine coniferous forest; granitic, rocky substrate. 9,842-12,139 ft.	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	6	Unlikely to occur. The Project area is lower in elevation than the species' known range.
<i>Horkelia parryi</i> Parry's horkelia	FSW, FSC, CNPS 1B	April-June	Chaparral, cismontane woodland. 260-3,395 ft.	Potential	Potential	Potential	Potential	Unlikely	Unlikely	Potential	6	May occur.
<i>Hydrothyria venosa</i> veined water lichen	FSS	N/A	Cold, clear, unpolluted streams in mixed conifer forests. 4,000-8,000 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	4,6	May occur.
<i>Ivesia campestris</i> field ivesia	FSW, CNPS 1B	June-August	Meadows and seeps (edges), subalpine coniferous forest, upper montane coniferous forest. 6,480-10,995 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	6	May occur.
<i>Ivesia unguiculata</i> Yosemite ivesia	FSW, CNPS 4	June-September	Meadows, subalpine coniferous forest, upper montane coniferous forest. Moist, open slopes and meadows. 4,900-9,600 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	6	May occur.
<i>Jamesia americana</i> var. <i>rosea</i> rosy-petaled cliffbush	FSW, CNPS 4	May-September	Alpine boulder and rock field, Great Basin scrub, pinyon and juniper woodland, subalpine coniferous forest; granitic or carbonate, rocky substrate. 7,380-12,140 ft.	Unlikely	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	6	May occur.
<i>Jepsonia heteranda</i> foothill jepsonia	FSW, CNPS 4	August-December	Cismontane woodland, lower montane coniferous forest; rocky, metamorphic substrate. 160-1,640 ft.	Unlikely	Potential	Potential	Potential	Unlikely	Unlikely	Unlikely	6	May occur.
<i>Lathyrus jepsonii</i> var. <i>jepsonii</i> Delta tule pea	FSC, CNPS 1B	May-September	Marshes and swamps; freshwater and brackish environments. 0-13 ft.	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	3	Unlikely to occur. The Project area is higher in elevation than the species' known range.

Appendix TERR-3-F. Special-Status Plants Potentially Occurring within the Project Area

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Big Creek No. 1&2	Big Creek No. 2A, 8 & Eastwood	Big Creek No. 3	Big Creek No. 4	Portal	Vermilion Valley	Mammoth Pool	Reference Source	Potential for Occurrence
Federally Listed or Candidate and Other Status												
<i>Lilium humboldtii</i> ssp. <i>humboldtii</i> Humboldt lily	FSW, CNPS 4	May-July	Chaparral, cismontane woodland, lower montane coniferous forest; openings. 295-3,610 ft.	Potential	Potential	Potential	Potential	Unlikely	Unlikely	Potential	6	May occur.
<i>Linanthus serrulatus</i> Madera linanthus	FSW, FSC, CNPS 1B	April-May	Cismontane woodland, lower montane coniferous forest. Dry slopes. 1,000-4,000 ft.	Potential	Potential	Potential	Potential	Unlikely	Unlikely	Potential	1,2,3,6	May occur.
<i>Lupinus gracilentus</i> slender lupine	FSW, CNPS 1B	July-August	Subalpine coniferous forest. 8,202-11,482 ft.	Unlikely	Potential	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	6	May occur.
<i>Madia yosemitana</i> Yosemite tarplant	FSW, CNPS 3	April-July	Lower montane coniferous forest, meadows and seeps. 3,940-7,550 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	2,6	May occur.
<i>Mimulus acutidens</i> King's River monkeyflower	FSW, CNPS 3	April-July	Cismontane woodland, lower montane coniferous forest. 1,000-4,005 ft.	Potential	Potential	Potential	Potential	Unlikely	Unlikely	Potential	2,6	May occur.
<i>Mimulus grayi</i> Gray's monkeyflower	FSW, CNPS 4	May-July	Lower montane coniferous forest, upper montane coniferous forest; mesic environments. 1800-9515 ft.	Potential	Potential	Potential	Potential	Potential	Potential	Potential	6	May occur.
<i>Mimulus inconspicuus</i> small-flowered monkeyflower	FSW, CNPS 4	May-June	Chaparral, cismontane woodland, lower montane coniferous forest; mesic environments. 528-6,600 ft.	Potential	Potential	Potential	Potential	Potential	Potential	Potential	6	May occur.
<i>Mimulus laciniatus</i> cut-leaved monkeyflower	FSW, CNPS 4	April-July	Chaparral, lower montane coniferous forest, upper montane coniferous forest; mesic environments, granitic substrate. 1,605-8,695 ft.	Potential	Potential	Potential	Potential	Potential	Potential	Potential	6	May occur.
<i>Monardella candicans</i> Sierra monardella	FSW, CNPS 4	April-July	Chaparral, cismontane woodland, lower montane coniferous forest; sandy or gravelly substrate. 490-2,625 ft.	Potential	Potential	Potential	Potential	Unlikely	Unlikely	Potential	6	May occur.
<i>Monardella linoides</i> ssp. <i>oblonga</i> flax-like monardella	FSC, CNPS 1B	June-August	Lower montane coniferous forest, pinyon and juniper woodland, upper montane coniferous forest. 2,952-8,103 ft.	Unlikely	Potential	Unlikely	Unlikely	Potential	Potential	Potential	4	May occur.
<i>Nemophila parviflora</i> var. <i>quercifolia</i> oak-leaved nemophila	FSW, CNPS 4	May-June	Cismontane woodland, lower montane coniferous forest. 2,295-7,220 ft.	Potential	Potential	Potential	Unlikely	Potential	Potential	Potential	6	May occur.
<i>Perideridia bacigalupii</i> Bacigalupi's yampah	FSW, CNPS 4	June-August	Chaparral, lower montane coniferous forest; serpentinite substrate. 1,475-3,285 ft.	Potential	Potential	Potential	Potential	Unlikely	Unlikely	Potential	6	May occur.

Appendix TERR-3-F. Special-Status Plants Potentially Occurring within the Project Area

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Big Creek No. 1&2	Big Creek No. 2A, 8 & Eastwood	Big Creek No. 3	Big Creek No. 4	Portal	Vermilion Valley	Mammoth Pool	Reference Source	Potential for Occurrence
Federally Listed or Candidate and Other Status												
<i>Phacelia oregana</i> mountain phacelia	FSW, CNPS 4	July-August	Meadows and seeps, pinyon and juniper woodland, subalpine coniferous forest; mesic environments. 7,870-11,155 ft.	Unlikely	Potential	Unlikely	Unlikely	Unlikely	Potential	Unlikely	6	May occur.
<i>Plagiobothrys myosotoides</i> forget-me-not popcorn-flower	FSW, CNPS 4	April-May	Chapparal. 1,640-6,565 ft.	Potential	Potential	Potential	Potential	Potential	Potential	Potential	6	May occur.
<i>Polystichum lonchitis</i> holly fern	FSW, CNPS 3	Fertile June to September	Subalpine coniferous forest, upper montane coniferous forest granitic or carbonate substrate. 5,905-8,530 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	6	May occur.
<i>Potamogeton epihydrus</i> ssp. <i>nuttallii</i> Nuttall's pondweed	FSW, CNPS 2	July-August	Marshes and swamps (assorted shallow freshwater). 1,310-6,235 ft.	Potential	Potential	Potential	Potential	Potential	Potential	Potential	6	May occur.
<i>Rhynchospora californica</i> California beaked-rush	FSW, FSC, CNPS 1B	May-July	Bogs and fens, lower montane coniferous forest, meadows and seeps (seeps), marshes and swamps (freshwater). 145-3,315 ft.	Potential	Potential	Potential	Potential	Unlikely	Unlikely	Potential	6	May occur.
<i>Ribes menziesii</i> var. <i>ixoderme</i> aromatic canyon gooseberry	FSW, CNPS 1B	April	Chaparral, cismontane woodland. 2,000-3,805 ft.	Potential	Potential	Potential	Unlikely	Unlikely	Unlikely	Potential	6	May occur.
<i>Sphagnum strictum</i> moss	CNPS 2	N/A	Subalpine coniferous forest (soil, lake margins). 8,530-9,186 ft.	Unlikely	Potential	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	1,2	Unlikely to occur. Known in California from only one occurrence at Dinkey Lakes, Sierra National Forest.
<i>Sphenopholis obtusata</i> prairie wedge grass	FSW, CNPS 2	April-July	Cismontane woodland, meadows and seeps; mesic environments. 980-6,565 ft.	Potential	Potential	Potential	Potential	Potential	Potential	Potential	1,2,6	May occur. There is a known population in the Project vicinity, but outside of the Project area, in the vicinity of Mono Hot Springs.
<i>Streptanthus farnsworthianus</i> Farnsworth's jewel-flower	FSW, CNPS 4	May-June	Cismontane woodland. 1,520-4,595 ft.	Potential	Potential	Potential	Potential	Unlikely	Unlikely	Potential	6	May occur.
<i>Tayloria lingulata</i> moss	CNPS 2	N/A	Lower montane coniferous forest; soil substrate. 4,921 ft.	Potential	Potential	Unlikely	Unlikely	Unlikely	Unlikely	Unlikely	1,2	May occur.
<i>Utricularia intermedia</i> flat-leaved bladderwort	CNPS 2	July-August	Bogs and fens, meadows and seeps (mesic), marshes and swamps (lake margins). 3,937-8,858 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	2	May occur.

Appendix TERR-3-F. Special-Status Plants Potentially Occurring within the Project Area

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Big Creek No. 1&2	Big Creek No. 2A, 8 & Eastwood	Big Creek No. 3	Big Creek No. 4	Portal	Vermilion Valley	Mammoth Pool	Reference Source	Potential for Occurrence
Federally Listed or Candidate and Other Status												
<i>Veronica cusickii</i> Cusick's speedwell	FSW, CNPS 4	July-August	Alpine boulder and rock field, meadows and seeps, subalpine coniferous forest, upper montane coniferous forest. 7,000-9,845 ft.	Potential	Potential	Unlikely	Unlikely	Potential	Potential	Unlikely	6	May occur.
<i>Viburnum ellipticum</i> oval-leaved viburnum	CNPS 2	May-June	Chaparral, cismontane woodland, lower montane coniferous forest. 705-4,593 ft.	Potential	Potential	Potential	Potential	Unlikely	Unlikely	Potential	2	May occur.
<i>Wyethia elata</i> Hall's wyethia	FSW, CNPS 4	May-August	Cismontane woodland, lower montane coniferous forest. 3,000-4,500 ft.	Potential	Potential	Unlikely	Unlikely	Unlikely	Unlikely	Potential	6	May occur.

Codes:

FE = federally listed as endangered

FT = federally listed as threatened

FC = federal candidate species

FSC = federal species of concern

CE = California state listed as endangered

CT = California state listed as threatened

CR = California stated listed as rare

CNPS = California Native Plant Society

1B = rare, threatened or endangered in California and elsewhere.

2 = rare in California but more common elsewhere.

3 = need more information

4 = plants of limited distribution; a watch list.

FSS = U.S. Forest Service sensitive species in the Sierra National Forest

FSW = U.S. Forest Service watch list species in the Sierra National Forest

Status codes derived from CNDDDB (CDFG 2003), CNPS (2002), USFS (2002), USFWS (2002)

Sources:

1 California Department of Fish and Game (CDFG). 2003. California Natural Diversity Database. RareFind 2. California Department of Fish and Game, Rancho Cordova, California.

2 California Native Plant Society (CNPS). 2001. Electronic Inventory of Rare and Endangered Vascular Plants of California. Electronic Database.

3 U.S. Fish and Wildlife Service. 2002. Species List. Dated January 23, 2002 and October 29, 2003.

4 U.S. Forest Service. 1998. Regional Forester's List of Sensitive Plant and Animal Species for Region 5.

5 U.S. Forest Service. 2001. Threatened, Endangered, and Forest Service Sensitive Species Database for the Terrestrial Species of the Sierra National Forest. Electronic Database.

6 Clines, Joanna. 2002. Sierra National Forest Sensitive Plant List. Dated April, 2002.

7 Clines, Joanna. 2003. Sierra National Forest, U.S. Forest Service. June 2003.

¹ List of species that were used to determine timing of surveys; formed through agency consultation with Joanna Clines (USFS)²This population was identified as part of the Portal Project, FERC Project No. 2174

APPENDIX G

Special-status Plant Species Blooming Periods by Elevation Range

Appendix TERR-3-G. Blooming Periods for the Special-Status Species Used to Determine the Timing of Surveys.

Low Elevation (Lower than 4500 ft.)	March	April	May	June	July	August
<i>Botrychium ascendens</i>						
<i>Botrychium crenulatum</i>						
<i>Botrychium montanum</i>						
<i>Calyptridium pulchellum</i>						
<i>Camissonia sierrae</i> ssp. <i>alticola</i>						
<i>Carpenteria californica</i>						
<i>Collomia rawsoniana</i>						
<i>Cypripedium montanum</i>						
<i>Eriogonum prattenianum</i> var. <i>avium</i>						
<i>Lewisia congdonii</i>						
<i>Lewisia disepala</i>						
<i>Lupinus citrinus</i> var. <i>citrinus</i>						
<i>Mimulus gracilipes</i>						
<i>Hydrothyria venosa</i>						
<i>Viola pinetorum</i> ssp. <i>grisea</i>						

Middle Elevation (4500-6600 ft.)	March	April	May	June	July	August
<i>Botrychium ascendens</i>						
<i>Botrychium crenulatum</i>						
<i>Botrychium montanum</i>						
<i>Camissonia sierrae</i> ssp. <i>alticola</i>						
<i>Collomia rawsoniana</i>						
<i>Cypripedium montanum</i>						
<i>Epilobium howellii</i>						
<i>Erigeron aequifolius</i>						
<i>Eriogonum prattenianum</i> var. <i>avium</i>						
<i>Erythronium pluriflorum</i>						
<i>Hulsea brevifolia</i>						
<i>Lewisia congdonii</i>						
<i>Lewisia disepala</i>						
<i>Lupinus citrinus</i> var. <i>citrinus</i>						
<i>Viola pinetorum</i> ssp. <i>grisea</i>						
<i>Hydrothyria venosa</i>						
<i>Meesia triquetra</i>						

**Appendix TERR-3-G. Blooming Periods for the Special-Status Species
Used to Determine the Timing of Surveys.(continued)**

High Elevation (Higher than 6600 ft.)	March	April	May	June	July	August
<i>Botrychium crenulatum</i>						
<i>Botrychium lineare</i>						
<i>Botrychium lunaria</i>						
<i>Camissonia sierrae</i> ssp. <i>alticola</i>						
<i>Collomia rawsoniana</i>						
<i>Cypripedium montanum</i>						
<i>Delphinium inopinum</i>						
<i>Dicentra nevadensis</i>						
<i>Epilobium howellii</i>						
<i>Erigeron aequifolius</i>						
<i>Eriogonum prattenianum</i> var. <i>avium</i>						
<i>Erythronium pluriflorum</i>						
<i>Hulsea brevifolia</i>						
<i>Lewisia congdonii</i>						
<i>Lewisia disepala</i>						
<i>Viola pinetorum</i> ssp. <i>grisea</i>						
<i>Hydrothyria venosa</i>						
<i>Meesia triquetra</i>						
<i>Meesia uliginosa</i>						

APPENDIX H

**List of Project Facilities, Project-Related Recreational Facilities,
Project Roads, and Project Trails Surveyed for Special-status
Plant Populations, Invasive/Exotic Plants, Native American Plants,
and Valley Elderberry Longhorn Beetle**

Appendix-H. List of Project Facilities, Project-Related Recreational Facilities, Project Roads, and Project Trails Surveyed for Special-Status Plant Populations, Invasive/Exotic Plant Species, Native American Plants, and Valley Elderberry Longhorn Beetle.¹

Lower Elevations (< 4500 feet)
Mammoth Pool Dam
Mammoth Pool Reservoir
Mammoth Pool Boat Launch
China Bar Boat Camp
Mammoth Pool Campground
Windy Point Picnic Area
Dam 5
Dam 5 Forebay
Dam 6
Dam 6 Forebay
Rock Creek Diversion
Ross Creek Diversion
SCE Powerhouse 3 Community
Mammoth Pool Powerhouse Transmission Lines
Powerhouse 3
Powerhouse 3 Penstock
Powerhouse 3 Surge Chamber
Pipe Above Ground near Powerhouse 3
Powerhouse 8
Powerhouse 8 Penstock
Powerhouse 8 Surge Tank
Powerhouse 2
Powerhouse 2 Penstock
Powerhouse 2 Valve House
Powerhouse 2 Surge Chamber
Powerhouse 2A
Powerhouse 2A Penstock
Valve House - Powerhouse 2A
Surge Chamber - Powerhouse 2A
Mammoth Pool Powerhouse
Mammoth Pool Powerhouse Penstock
Mammoth Pool Powerhouse Surge Chamber and Access Road
Mammoth Pool Gate House
Mammoth Pool Intake Portal and Access Road
Gaging Station near Windy Point Picnic Area
Gaging Station at the bottom of Mammoth Pool Dam
Gaging Station on the San Joaquin River above Shakeflat Creek
Two Gaging Stations near Powerhouse 8
Gaging Station near Powerhouse 3
Gaging Station on Big Creek below Dam 5
Roads and Trails:
6S25, Mammoth Pool Road, from 7S20 (Shake Flat Creek access) to end of road at east abutment
8S03, Canyon Rd to Powerhouse 8 to MPPH
8S05, Canyon Rd. from Huntington Lake Rd. to Powerhouse 3 gate
8S44 and 8S44Y, MPPH transmission line access road from gate near 8S03 to 9S42
9S42, MPPH transmission line access road from gate near Hwy 225, Italian Bar Rd., to 8S44

Appendix-H. List of Project Facilities, Project-Related Recreational Facilities, Project Roads, and Project Trails Surveyed for Special-Status Plant Populations, Invasive/Exotic Plant Species, Native American Plants, and Valley Elderberry Longhorn Beetle.¹

Lower Elevations (< 4500 feet) (continued)
Powerhouse 2 access road from Canyon Rd.
Two old housing roads adjacent to Powerhouse 2
Two access roads off 8S05, Canyon Rd., that access Powerhouse 8 penstocks
Access road from 8S03 to Mammoth Pool transmission line
Access road south from Railroad Grade Rd., to West Portal, Tunnels 2 and 5 surge chambers and gates
8S13 from the locked gate to 8S05, the Canyon Rd.
8S13 from the Railroad Grade to the locked gate before junction with 8S05, Canyon Rd.
Miscellaneous Powerhouse 3 roads i.e. water tank access road, shop access road, housing road, road to
Trail from 7S20 to San Joaquin River gage near Shakeflat Creek
Mammoth Pool Fishwater Generator access road from 6S25 (Mammoth Pool Road) to Base of Mammoth Pool
BC 3 roads from controlled access gate to powerhouse and miscellaneous branches
Middle Elevation (4500-6600 feet)
Dam 4
Dam 4 Forebay
Balsam Creek Diversion
Ely Creek Diversion
Adit 8 Diversion
Powerhouse 1
Powerhouse 1 Penstock
Powerhouse 1 Valve House
Powerhouse 1 Flowlines
Powerhouse 1 Stand Pipes
Fish Hatchery in Big Creek
Big Creek Community
Shaver Lake Dam
Shaver Lake Reservoir
Sierra Marina Concessionaire Facility
Sierra Marina Boat Ramp
Sierra Marina Parking Area
Camp Edison Boat Launch
Shaver Point Boat Launch
Camp Edison (SCE)
Dorabelle Campground
Dorabelle Picnic Area
Day Use Area on North Shore of Shaver Lake
Day Use Area Off Hwy 168
Rest Area off Dinkey Creek Road
Cross Country Ski Trails
Eastwood Powerhouse
Eastwood Powerhouse Surge Chamber
Eastwood Powerhouse Transmission Lines
Balsam Dam
Balsam Forebay
Balsam Forebay Surge Chamber
Balsam Forebay Picnic Area
Balsam Meadow Trailhead

Appendix-H. List of Project Facilities, Project-Related Recreational Facilities, Project Roads, and Project Trails Surveyed for Special-Status Plant Populations, Invasive/Exotic Plant Species, Native American Plants, and Valley Elderberry Longhorn Beetle.¹

Middle Elevation (4500-6600 feet) (continued)
Balsam Snow Park
Gaging Station near Shaver Lake Dam
Gaging Station on Stevenson Creek below Shaver Lake
Gaging Station on North Fork Stevenson Creek
Gaging Station near Eastwood Powerhouse Surge Chamber
Gaging Station near Balsam Meadow Forebay
Gaging Station on Ely Creek at the diversion
Roads and Trails:
9S24 from Hwy 168 to NF Stevenson Creek gage and gate 2
9S32 from gate near Hwy 168 to west side of Balsam Forebay
9S32A segments from 9S32 to east side of Balsam Forebay. (road weaves in and out of project boundaries)
9S312 access to the Eastwood Substation from Hwy 168
Big Creek Work Camp Roads
Trail to Big Creek gaging station below Dam 5
Two trails to Stevenson Creek gage below Shaver Dam (west of 168)
9S58 from gate to Eastwood Powerstation
9S58, access road to Eastwood Powerstation, from Hwy 168 to gate
Two access roads to Shaver Dam from Hwy 168
Access road from 8S03 to MPPH surge chamber
Camp Edison roads
Higher Elevation (> 6600 feet)
Florence Lake Dam
Florence Lake Reservoir
Florence Lake Boat Ramp
Jackass Meadow Campground
Dutch/Crater Trail Trailhead
Florence Lake Picnic Area
SCE Florence Work Camp
Huntington Lake Dams - 1,2,3,3A
Huntington-Pitman-Shaver Siphon - Elevated Portion
Huntington Lake Reservoir
Huntington, East (USFS Public) Boat Ramp
Huntington, West (HL Resort) Boat Ramp
Billy Creek Cabin
Billy Creek Campground
Lower Billy Creek Campground
Catavee Campground
College Campground
Deer Creek Campground
Kinnikinnick Campground
Rancheria Campground
Bear Cove Picnic Area
Billy Creek Picnic Area
Deer Creek Picnic Area
Dowville Picnic Area
Dam 3 Parking Area

Appendix-H. List of Project Facilities, Project-Related Recreational Facilities, Project Roads, and Project Trails Surveyed for Special-Status Plant Populations, Invasive/Exotic Plant Species, Native American Plants, and Valley Elderberry Longhorn Beetle.¹

Higher Elevation (> 6600 feet) (continued)
Billy Creek Trailhead
Eastwood Visitor Center
Eastwood Snow Park
Huntington Lake Boat Launch Snow Park
Inspiration Point Trailhead
Bear Creek Diversion Dam
Bear Creek Forebay
Mono/Bear Siphon - Above Ground Portion
Mono Creek Diversion Dam
Mono Creek Forebay
Mono Creek Picnic Area
Mono Crossing Trailhead
Tombstone Creek Diversion
North Slide Creek Diversion
South Slide Creek Diversion
Hooper Creek Diversion
Crater Creek Diversion
Chinquapin Creek Diversion
Camp 62 Creek Diversion
Bolsillo Creek Diversion
Pitman Creek Diversion
Portal Powerhouse Energy Dissipater
Portal Dam
Portal Forebay
Portal Powerhouse Surge Chamber
Portal Forebay Distribution Line
Portal Transmission Line
Adit 2 Leakage Weir
Eastwood Overflow Campground
Portal Forebay Campground
Rattlesnake - Mono Crossing Trailhead
Gaging Station on Big Creek below Huntington Lake
Gaging Station on Big Creek near Dam 1
Gaging Station on Pitman Creek above the diversion
Gaging Station on Pitman Creek below the diversion
Two Gaging Stations on Bolsillo Creek
Gaging Stations on Camp 62 Creek below the diversion
Gaging Station on Chinquapin Creek
Gaging Station on Crater Creek
Gaging Station at Florence Dam
Gaging Stations at SCE Florence Workcamp Diversion House
Two Gaging Stations on Hooper Creek
Gaging Station on the South Fork of the San Joaquin below Florence Dam
Gaging Station on the South Fork of the San Joaquin below Hooper Creek
Three Gaging Stations on Bear Creek near the diversion
Two Gaging Stations on Mono Creek

Appendix-H. List of Project Facilities, Project-Related Recreational Facilities, Project Roads, and Project Trails Surveyed for Special-Status Plant Populations, Invasive/Exotic Plant Species, Native American Plants, and Valley Elderberry Longhorn Beetle.¹

Higher Elevation (> 6600 feet) (continued)
Roads and Trails:
8S302 Dam 2 to BC 1 42" gatehouse
8S66 from west end to east end of Dam 2
8S66 from gate to west end of Dam 2
8S66B from Dam 2 to Dam 1
8S83 segment from 8S302 to Huntington-Shaver Siphon
8S83 segment from connector road between 8S302 to 8S83 to Huntington-Shaver Siphon
Connector road between 8S302 and 8S83
Trails to North-South Slide Creek Diversions
Tombstone diversion channel access road, from Jackass Meadow campground loop to diversion channel access
Trail to Tombstone Creek Diversion
Dutch Lake Trail, from trailhead to trail to Crater Creek Diversion
Trail to Crater Creek Diversion from Dutch Lake Trail
Trail from Jackass Meadow campground to Florence Dam outlet and gage
Florence work camp access road from gate near 7S01, Florence Lake Rd, to work camp
Access road to Florence Camp and water storage tank from 7S370
7S65, access road to Hooper Diversion from 7S370 and Jackass Meadow campground
Access road to Mono Diversion from 5S80, Kaiser Pass Rd.
Mono Campground loop
Trail to Camp 62 Creek Diversion
Trail to Chinquapin Creek Diversion
Access road to Bolsillo Diversion from 5S80, Kaiser Pass Rd
8S301, south of Dam 2, south of intersection with 8S66 to penstock surge tubes
8S301, south of Dam 2, from the intersection with 8S66 to short distance to the penstock surge tubes
Connector road between 8S301 and 8S302
Portal Penstock bypass energy dissipater access road from near Kaiser Pass Rd. pass SCE gate to energy
Access road to Portal Powerhouse from 5S80, Kaiser Pass Rd.
Access road to Pitman Diversion from Hwy 168
Jackass Meadow Campground loops

¹Only Project Facilities, Project-Related Recreational Facilities, Project Roads, and Project Trails located lower than 3,000 feet in elevation were surveyed for TERR - 6, Valley Elderberry Longhorn Beetle

APPENDIX I

Plant Species Observed During Field Surveys

Appendix I. Plant Species Observed During Field Surveys

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>
<u>BRYOPHYTES</u>	
Marchantiaceae	
<i>Marchantia polymorpha</i>	liverwort
Polytrichaceae	
<i>Polytrichum juniperinum</i>	Juniper hair cap
<u>VASCULAR SPECIES</u>	
Aceraceae	
<i>Acer macrophyllum</i>	bigleaf maple
Amaranthaceae	
<i>Amaranthus albus</i>	tumbleweed
<i>Amaranthus blitoides</i>	prostrate pigweed
Anacardiaceae	
<i>Rhus trilobata</i>	skunkbush
<i>Toxicodendron diversilobum</i>	poison oak
Apiaceae	
<i>Anthriscus caucalis</i>	bur-chervil
<i>Berula erecta</i>	cut-leaved water parsnip
<i>Cicuta douglasii</i>	western water hemlock
<i>Cymopterus terebinthinus</i> var. <i>californicus</i>	turpentine cymopterus
<i>Daucus pusillus</i>	American wild carrot
<i>Heracleum lanatum</i>	cow parsnip
<i>Ligusticum grayi</i>	Gray's lovage
<i>Lomatium dissectum</i> var. <i>multifidum</i>	fern-leaved lomatium
<i>Lomatium torreyi</i>	Sierra biscuitroot
<i>Osmorhiza brachypoda</i>	California sweet-cicely
<i>Osmorhiza chilensis</i>	mountain sweet-cicely
<i>Perideridia lemmonii</i>	Lemmon's yampah
<i>Perideridia parishii</i> ssp. <i>latifolia</i>	wide-leaved Parish's yampah
<i>Sanicula crassicaulis</i>	gamble weed
<i>Sanicula graveolens</i>	Sierra sanicle
<i>Sphenosciadium capitellatum</i>	ranger's buttons
<i>Torilis arvensis</i>	field hedge-parsley
Apocynaceae	
<i>Apocynum androsaemifolium</i>	bitter dogbane
<i>Apocynum cannabinum</i>	Indian hemp
<i>Vinca major</i>	Periwinkle
Aristolochiaceae	
<i>Asarum hartwegii</i>	Hartweg's wild-ginger
Asclepiadaceae	
<i>Asclepias californica</i>	California milkweed
<i>Asclepias cordifolia</i>	heartleaf milkweed
<i>Asclepias eriocarpa</i>	Indian milkweed
<i>Asclepias fascicularis</i>	narrowleaf milkweed
<i>Asclepias speciosa</i>	showy milkweed

Appendix I. Plant Species Observed During Field Surveys

SCIENTIFIC NAME**COMMON NAME****VASCULAR SPECIES (continued)****Asteraceae**

<i>Achillea millefolium</i>	common yarrow
<i>Adenocaulon bicolor</i>	trail plant
<i>Agoseris heterophylla</i>	mountain-dandelion
<i>Agoseris retrorsa</i>	spear-leaved agoseris
<i>Antennaria argentea</i>	silvery everlasting
<i>Antennaria media</i>	alpine pussytoes
<i>Anaphalis margaritacea</i>	pearly everlasting
<i>Antennaria rosea</i> ssp. <i>rosea</i>	rosy pussytoes
<i>Arnica amplexicaulis</i>	clasping arnica, streambank arnica
<i>Arnica mollis</i>	hairy arnica
<i>Artemisia douglasiana</i>	California mugwort
<i>Artemisia dracunculus</i>	pinon wormwood
<i>Artemisia ludoviciana</i> ssp. <i>incompta</i>	mugwort, silver wormwood
<i>Artemisia tridentata</i> ssp. <i>tridentata</i>	common sagebrush
<i>Artemisia tridentata</i> ssp. <i>vaseyana</i>	mountain big sagebrush
<i>Aster breweri</i>	Brewer's aster
<i>Aster integrifolius</i>	entire-leaved aster
<i>Aster occidentalis</i> var. <i>occidentalis</i>	western mountain aster
<i>Aster oregonensis</i>	Oregon aster
<i>Baccharis pilularis</i>	coyote brush
<i>Balsamorhiza deltoidea</i>	arrow-leaved balsamroot
<i>Brickellia californica</i>	California brickellbush
<i>Centaurea cyanus</i>	bachelor's button
<i>Centaurea melitensis</i>	tochalote
<i>Chaenactis douglasii</i> var. <i>douglasii</i>	Douglas' dusytmaidens
<i>Chaenactis glabriuscula</i> var. <i>glabriuscula</i>	yellow pincushion
<i>Chamomilla suaveolens</i>	pineapple weed
<i>Chrysothamnus nauseosus</i> ssp. <i>albicaulis</i>	rubber rabbitbrush
<i>Chrysothamnus parryi</i>	Parry's rabbitbrush
<i>Cirsium andersonii</i>	Anderson's thistle
<i>Cirsium occidentale</i> var. <i>californicum</i>	California thistle
<i>Cirsium vulgare</i>	bull thistle
<i>Conyza canadensis</i>	Canada horseweed
<i>Crepis acuminata</i>	long-leaved hawkbeard
<i>Dugaldia hoopesii</i>	Hoope's sneezeweed
<i>Ericameria arborescens</i>	golden fleece
<i>Ericameria bloomeri</i>	Bloomer's goldenbush
<i>Erigeron argentatus</i>	silver fleabane
<i>Erigeron breweri</i> var. <i>breweri</i>	Brewer's fleabane
<i>Erigeron coulteri</i>	Coulter's daisy
<i>Erigeron foliosus</i> var. <i>foliosus</i>	thread-stemmed fleabane
<i>Erigeron inornatus</i> var. <i>inornatus</i>	California rayless fleabane
<i>Erigeron peregrinus</i> var. <i>hirsutus</i>	wandering fleabane
<i>Eriophyllum confertiflorum</i> var. <i>confertiflorum</i>	golden yarrow
<i>Eriophyllum lanatum</i> var. <i>achillaeoides</i>	common woolly sunflower
<i>Eriophyllum lanatum</i> var. <i>croceum</i>	Sierra woolly sunflower

Appendix I. Plant Species Observed During Field Surveys

SCIENTIFIC NAME**COMMON NAME****VASCULAR SPECIES (continued)****Asteraceae (continued)**

<i>Eriophyllum lanatum</i> var. <i>integrifolium</i>	common woolly sunflower
<i>Gnaphalium luteo-album</i>	everlasting cudweed
<i>Gnaphalium palustre</i>	western marsh cudweed
<i>Hazardia whitneyi</i> var. <i>whitneyi</i>	Whitney's bristleweed
<i>Helenium bigelovii</i>	Bigelow's sneezeweed
<i>Heterotheca grandiflora</i>	telegraph weed
<i>Hieracium albiflorum</i>	white-flowered hawkweed
<i>Hieracium horridum</i>	shaggy hawkweed
<i>Holocarpha virgata</i> ssp. <i>virgata</i>	narrow tarplant
<i>Hulsea brevifolia</i>	short-leaved hulsea
<i>Hypochaeris glabra</i>	smooth cat's ear
<i>Lactuca serriola</i>	prickly lettuce
<i>Lessingia filaginifolia</i> var. <i>filaginifolia</i>	common California-aster
<i>Lessingia nemaclada</i>	Slender-stemmed lessingia
<i>Leucanthemum vulgare</i>	oxe-eye daisy
<i>Machaeranthera canescens</i> var. <i>canescens</i>	hoary-aster
<i>Madia elegans</i> ssp. <i>elegans</i>	common madia
<i>Madia elegans</i> ssp. <i>vernalis</i>	spring common madia
<i>Madia exigua</i>	small tarweed
<i>Madia gracilis</i>	gumweed madia
<i>Madia minima</i>	dwarf madia
<i>Micropus californicus</i> var. <i>californicus</i>	slender cottonweed
<i>Microseris douglasii</i> ssp. <i>douglasii</i>	Douglas' microseris
<i>Phalacroseris bolanderi</i>	Bolander's mock dandelion
<i>Pseudobahia heermannii</i>	Heermann's golden sunburst
<i>Rafinesquia californica</i>	California chicory
<i>Rigiopappus leptocladus</i>	Rigiopappus
<i>Senecio aronicoides</i>	rayless ragwort
<i>Senecio canus</i>	woolly butterweed
<i>Senecio clarkianus</i>	Clark's ragwort
<i>Senecio hydrophilus</i>	alkali-marsh ragwort, water ragwort
<i>Senecio integerrimus</i> var. <i>major</i>	tower butterweed
<i>Senecio triangularis</i>	arrow butterweed
<i>Senecio vulgaris</i>	old man of spring
<i>Solidago californica</i>	California goldenrod
<i>Solidago canadensis</i> ssp. <i>elongata</i>	Canada goldenrod
<i>Solidago multiradiata</i>	Rocky mountain goldenrod
<i>Sonchus asper</i>	prickly sow thistle
<i>Stephanomeria tenuifolia</i>	narrow-leaved stephanomeria
<i>Stephanomeria virgata</i> ssp. <i>pleurocarpa</i>	wand stephanomeria
<i>Tanacetum vulgare</i>	common tansy
<i>Taraxacum officinale</i>	common dandelion
<i>Tragopogon dubius</i>	yellow salsify
<i>Wyethia angustifolia</i>	narrow-leaved mule ears
<i>Wyethia helenioides</i>	gray mule ears
<i>Wyethia mollis</i>	mountain mule ears
<i>Xanthium strumarium</i>	cocklebur

Appendix I. Plant Species Observed During Field Surveys

SCIENTIFIC NAME**COMMON NAME****VASCULAR SPECIES (continued)****Berberidaceae***Berberis aquifolium* var. *dictyota*

Jepson's Oregon grape

Betulaceae*Alnus incana* ssp. *tenuifolia*

mountain alder

Alnus rhombifolia

white alder

Corylus cornuta var. *californica*

California hazlenut

Blechnaceae*Woodwardia fimbriata*

giant chain fern

Boraginaceae*Amsinckia menziesii* var. *intermedia*

common fiddleneck

Cryptantha intermedia

Clearwater cryptantha

Cryptantha muricata

prickly popcornflower

Cryptantha sp.*Cynoglossum occidentale*

western houndstongue

Hackelia micrantha

stickseed

Hackelia mundula

pink stickseed

Hackelia velutina

velvety stickseed

Mertensia ciliata

bluebells

Myosotis discolor

changing forget-me-not

Plagiobothrys canescens

valley popcornflower

Plagiobothrys nothofulvus

rusty popcornflower

Plagiobothrys sp.*Plagiobothrys torreyi* var. *diffusus*

Torrey's popcornflower

Brassicaceae*Arabidopsis thaliana*

mouse-ear cress

Arabis hirsuta var. *pycnocarpa*

hairy rock-cress

Arabis holboellii var. *retrofracta*

backward-splitting Holboell's rock-cress

Arabis platysperma var. *platysperma*

broad-seeded rock-cress

Arabis rectissima

bristly-leaved rock-cress

Arabis sparsiflora var. *arcuata*

arched elegant rock-cress

Athysanus pusillus

common sandweed

Barbarea orthoceras

winter-cress

Brassica nigra

black mustard

Cardamine breweri var. *breweri*

Brewer's bittercress

Caulanthus coulteri var. *coulteri*

Coulter's jewel-flower

Descurainia pinnata ssp. *menziesii*

Menzies' tansymustard

Draba verna

spring draba

Erysimum capitatum ssp. *capitatum*

Douglas' wallflower

Erysimum capitatum ssp. *perenne*

Sierra wallflower

Guillenia lemmonii

Lemmon's mustard

Lepidium densiflorum var. *macrocarpum*

bigseed peppergrass

Lepidium latifolium

perennial pepperweed

Lepidium nitidum var. *nitidum*

shining peppergrass

Lepidium virginicum var. *pubescens*

hairy pepperweed

Raphanus sativus

wild radish

Rorippa curvisiliqua

western yellow cress

Appendix I. Plant Species Observed During Field Surveys

SCIENTIFIC NAME**COMMON NAME****VASCULAR SPECIES (continued)****Brassicaceae (continued)**

<i>Rorippa nasturtium-aquaticum</i>	watercress
<i>Sisymbrium altissimum</i>	tumble-mustard
<i>Sisymbrium officinale</i>	hedge mustard
<i>Streptanthus breweri</i> var. <i>breweri</i>	Brewer's jewelflower
<i>Streptanthus diversifolius</i>	varied-leaved jewelflower
<i>Streptanthus tortuosus</i> var. <i>orbiculatus</i>	mountain jewel flower
<i>Streptanthus tortuosus</i> var. <i>tortuosus</i>	mountain jewel flower
<i>Thysanocarpus curvipes</i>	fringe pod

Calycanthaceae

<i>Calycanthus occidentalis</i>	spicebush
---------------------------------	-----------

Caprifoliaceae

<i>Lonicera conjugialis</i>	double honeysuckle
<i>Lonicera interrupta</i>	chaparral honeysuckle
<i>Lonicera involucrata</i> var. <i>involucrata</i>	twinberry
<i>Sambucus mexicana</i>	blue elderberry
<i>Sambucus racemosa</i> var. <i>microbotrys</i>	red elderberry
<i>Symphoricarpos mollis</i>	creeping snowberry
<i>Symphoricarpos rotundifolius</i>	snowberry

Caryophyllaceae

<i>Cerastium arvense</i>	meadow chickweed
<i>Cerastium glomeratum</i>	mouse-ear chickweed
<i>Herniaria hirsuta</i> ssp. <i>hirsuta</i>	hairy herniaria
<i>Minuartia douglasii</i>	Douglas' sandwort
<i>Petrorhagia dubia</i>	Wilding pink
<i>Pseudostellaria jamesiana</i>	sticky starwort
<i>Sagina saginoides</i>	alpine pearlwort
<i>Silene antirrhina</i>	sleepy catchfly
<i>Silene gallica</i>	common catchfly, windmill pink
<i>Silene latifolia</i> ssp. <i>alba</i>	bladder campion
<i>Silene lemmonii</i>	Lemmon's campion
<i>Spergularia rubra</i>	purple sand spurrey
<i>Stellaria longipes</i>	meadow starwort
<i>Stellaria media</i>	common chickweed
<i>Stellaria umbellata</i>	umbellate chickweed

Cistaceae

<i>Cistus creticus</i>	pink rockrose
------------------------	---------------

Convolvulaceae

<i>Calystegia occidentalis</i> ssp. <i>fulcrata</i>	Sonora morning-glory
<i>Calystegia malacophylla</i> ssp. <i>malacophylla</i>	Sierra morning-glory

Cornaceae

<i>Cornus nuttallii</i>	mountain dogwood
<i>Cornus sericea</i>	red osier dogwood

Appendix I. Plant Species Observed During Field Surveys

SCIENTIFIC NAME**COMMON NAME****VASCULAR SPECIES (continued)****Crassulaceae**

<i>Dudleya cymosa</i>	canyon dudleya
<i>Parvisedum congdonii</i>	Congdon's stonecrop
<i>Sedum lanceolatum</i>	narrow-petaled stonecrop
<i>Sedum obtusatum</i> ssp. <i>obtusatum</i>	Sierra stonecrop
<i>Sedum spathulifolium</i>	Pacific stonecrop

Cucurbitaceae

<i>Marah horridus</i>	Sierra manroot
<i>Marah fabaceus</i>	California manroot

Cupressaceae

<i>Calocedrus decurrens</i>	incense cedar
<i>Juniperus communis</i>	dwarf juniper
<i>Juniperus occidentalis</i> var. <i>australis</i>	Sierra juniper

Cuscutaceae

<i>Cuscuta californica</i>	California dodder
<i>Cuscuta indecora</i>	bigseed alfalfa dodder

Cyperaceae

<i>Carex amplexans</i>	clasping-bract sedge
<i>Carex amplifolia</i>	bigleaf sedge
<i>Carex aquatilis</i>	water sedge
<i>Carex athrostachya</i>	slenderbeak sedge
<i>Carex densa</i>	dense sedge
<i>Carex fracta</i>	fragile sheath sedge
<i>Carex heteroneura</i>	variable-nerved sedge
<i>Carex lanuginosa</i>	woolly sedge
<i>Carex lenticularis</i> var. <i>lipocarpa</i>	fat-fruited sedge
<i>Carex nebrascensis</i>	Nebraska sedge
<i>Carex nervina</i>	Sierra nerved sedge
<i>Carex nudata</i>	naked sedge
<i>Carex preslii</i>	Presl's sedge
<i>Carex rossii</i>	Ross sedge
<i>Carex sartwelliana</i>	Yosemite sedge
<i>Carex specifica</i>	narrow-fruit sedge
<i>Carex vesicaria</i> var. <i>vesicaria</i>	blister sedge
<i>Carex whitneyi</i>	Whitney's sedge
<i>Cyperus eragrostis</i>	tall flatsedge
<i>Cyperus esculentus</i>	Yellow nutgrass
<i>Dulichium arundinaceum</i>	three-way sedge
<i>Eleocharis acicularis</i> var. <i>acicularis</i>	needle spikerush
<i>Eleocharis macrostachya</i>	creeping spikerush
<i>Eleocharis parrishii</i>	Parish's spikerush
<i>Scirpus microcarpus</i>	small-fruited bulrush

Datisceae

<i>Datisca glomerata</i>	Durango root
--------------------------	--------------

Appendix I. Plant Species Observed During Field Surveys

SCIENTIFIC NAME	COMMON NAME
<u>VASCULAR SPECIES (continued)</u>	
Dennstaedtiaceae	
<i>Pteridium aquilinum</i> var. <i>pubescens</i>	western bracken fern
Dryopteridaceae	
<i>Athyrium filix-femina</i> var. <i>cyclosorum</i>	common lady fern
<i>Cystopteris fragilis</i>	fragile fern
<i>Dryopteris arguta</i>	California wood fern
<i>Polystichum munitum</i>	sword fern
Equisetaceae	
<i>Equisetum arvense</i>	common horsetail
<i>Equisetum laevigatum</i>	smooth horsetail
Ericaceae	
<i>Arctostaphylos nevadensis</i>	pinemat manzanita
<i>Arctostaphylos patula</i>	greenleaf manzanita
<i>Arctostaphylos viscida</i> ssp. <i>mariposa</i>	Mariposa manzanita
<i>Ledum glandulosum</i>	western Labrador tea
<i>Orthilia secunda</i>	one-sided wintergreen
<i>Phyllodoce empetriformis</i>	Klamath mountain-heather
<i>Pterospora andromedea</i>	pinedrops
<i>Pyrola asarifolia</i> ssp. <i>asarifolia</i>	liverleaf wintergreen
<i>Pyrola minor</i>	lesser wintergreen
<i>Pyrola picta</i>	white-veined wintergreen
<i>Rhododendron occidentale</i>	western azalea
<i>Sarcodes sanguinea</i>	snow plant
Euphorbiaceae	
<i>Eremocarpus setigerus</i>	turkey mullein
Fabaceae	
<i>Astragalus bolanderi</i>	Bolander's locoweed
<i>Cercis occidentalis</i>	western redbud
<i>Genista monspessulana</i>	French broom
<i>Hoita macrostachya</i>	leather root
<i>Lathyrus latifolius</i>	everlasting pea
<i>Lathyrus nevadensis</i> var. <i>nevadensis</i>	Sierra Nevada pea
<i>Lathyrus sulphureus</i>	sulpher pea
<i>Lathyrus tingitanus</i>	Tangier pea
<i>Lotus argophyllus</i> var. <i>argophyllus</i>	silver bird's-foot trefoil
<i>Lotus crassifolius</i> var. <i>crassifolius</i>	broad-leaved lotus
<i>Lotus humistratus</i>	short-podded lotus
<i>Lotus micranthus</i>	hill Lotus
<i>Lotus nevadensis</i> var. <i>nevadensis</i>	Sierra Nevada lotus
<i>Lotus oblongifolius</i> var. <i>oblongifolius</i>	streambank lotus
<i>Lotus pinnatus</i>	pinnate-leaved lotus
<i>Lotus purshianus</i>	Spanish lotus
<i>Lotus scoparius</i>	common deerweed
<i>Lotus uliginosus</i>	marsh lotus
<i>Lotus wrangelianus</i>	calf lotus
<i>Lupinus adsurgens</i>	Drew's silky lupine

Appendix I. Plant Species Observed During Field Surveys

SCIENTIFIC NAME**COMMON NAME****VASCULAR SPECIES (continued)****Fabaceae (continued)**

<i>Lupinus albicaulis</i>	sickle-keeled lupine
<i>Lupinus albifrons</i>	silver lupine
<i>Lupinus albifrons</i> var. <i>collinus</i>	silver bush lupine
<i>Lupinus andersonii</i>	Anderson's lupine
<i>Lupinus apertus</i>	naked lupine
<i>Lupinus argenteus</i> var. <i>argenteus</i>	silvery lupine
<i>Lupinus argenteus</i> var. <i>montigenus</i>	silvery lupine
<i>Lupinus bicolor</i>	bicolored lupine
<i>Lupinus grayii</i>	gray lupine
<i>Lupinus latifolius</i> var. <i>columbianus</i>	broad-leaved lupine
<i>Lupinus lepidus</i> var. <i>lobbii</i>	Lobb's lupine
<i>Lupinus microcarpus</i> var. <i>densiflorus</i>	chick lupine
<i>Lupinus microcarpus</i> var. <i>microcarpus</i>	valley lupine
<i>Lupinus nanus</i>	sky lupine
<i>Lupinus polyphyllus</i> var. <i>burkei</i>	Burke's lupine
<i>Lupinus polyphyllus</i> var. <i>polyphyllus</i>	meadow lupine
<i>Lupinus stiversii</i>	harlequin lupine
<i>Medicago polymorpha</i>	bur clover
<i>Medicago sativa</i>	alfalfa
<i>Melilotus officinalis</i>	yellow sweetclover
<i>Robinia pseudoacacia</i>	black locust
<i>Spartium junceum</i>	Spanish broom
<i>Trifolium albopurpureum</i>	Indian clover
<i>Trifolium breweri</i>	Brewer's clover
<i>Trifolium campestre</i>	low hop clover
<i>Trifolium hirtum</i>	rose clover
<i>Trifolium monanthum</i> var. <i>monanthum</i>	mountain carpet clover
<i>Trifolium repens</i>	white clover
<i>Trifolium variegatum</i>	variegated clover, white-tipped clover
<i>Trifolium willdenovii</i>	tomcat clover
<i>Trifolium wormskioldii</i>	coast clover
<i>Vicia villosa</i> ssp. <i>varia</i>	thick-fruited vetch
Fagaceae	
<i>Chrysolepis sempervirens</i>	bush chinquapin
<i>Quercus berberidifolia</i>	inland scrub oak
<i>Quercus chrysolepis</i>	canyon live oak
<i>Quercus douglasii</i>	blue oak
<i>Quercus garryana</i> var. <i>breweri</i>	Oregon white oak
<i>Quercus kelloggii</i>	black oak
<i>Quercus lobata</i>	valley oak
<i>Quercus vaccinifolia</i>	huckleberry oak
<i>Quercus wislizeni</i>	interior live oak
Gentianaceae	
<i>Centaurium venustum</i>	beautiful centaury
<i>Gentianopsis simplex</i>	hiker's gentian

Appendix I. Plant Species Observed During Field Surveys

SCIENTIFIC NAME**COMMON NAME****VASCULAR SPECIES (continued)****Geraniaceae**

<i>Erodium botrys</i>	longbeak stork's bill
<i>Erodium cicutarium</i>	redstem storksbill
<i>Erodium moschatum</i>	whitestem filaree
<i>Geranium californicum</i>	California Geranium
<i>Geranium carolinianum</i>	Carolina geranium
<i>Geranium dissectum</i>	cutleaf geranium
<i>Geranium molle</i>	Dove's foot Geranium
<i>Geranium richardsonii</i>	Richardson's Geranium

Grossulariaceae

<i>Ribes cereum</i>	wax currant
<i>Ribes inerme</i> var. <i>inerme</i>	white-stemmed gooseberry
<i>Ribes montigenum</i>	alpine prickly currant
<i>Ribes nevadense</i>	Sierra currant
<i>Ribes roezlii</i>	Sierra gooseberry
<i>Ribes viscosissimum</i>	sticky currant

Hippocastanaceae

<i>Aesculus californica</i>	California buckeye
-----------------------------	--------------------

Hydrophyllaceae

<i>Draperia systyla</i>	draperia
<i>Eriodictyon californicum</i>	California yerba santa
<i>Hydrophyllum occidentale</i>	California waterleaf
<i>Nemophila heterophylla</i>	variable-leaved Nemophila
<i>Nemophila menziesii</i>	baby blue eyes
<i>Nemophila pedunculata</i>	littlefoot nemophila
<i>Nemophila pulchella</i>	pretty Nemophila
<i>Nemophila spatulata</i>	Sierra Nemophila
<i>Phacelia egena</i>	rock phacelia
<i>Phacelia hastata</i> ssp. <i>compacta</i>	timberline phacelia
<i>Phacelia hydrophylloides</i>	waterleaf phacelia
<i>Phacelia marcescens</i>	marcescent phacelia
<i>Phacelia mutabilis</i>	changeable phacelia
<i>Phacelia quickii</i>	Quick's phacelia
<i>Phacelia tanacetifolia</i>	lacy phacelia
<i>Pholistoma auritum</i>	blue fiesta flower
<i>Pholistoma membranaceum</i>	white fiesta flower

Hypericaceae

<i>Hypericum anagalloides</i>	tinker's penny
<i>Hypericum formosum</i> var. <i>scouleri</i>	Scouler's St. Johnswort
<i>Hypericum perforatum</i>	Klamath weed, St. Johnswort

Iridaceae

<i>Iris hartwegii</i>	Hartweg's Iris
-----------------------	----------------

Appendix I. Plant Species Observed During Field Surveys

SCIENTIFIC NAME**COMMON NAME****VASCULAR SPECIES (continued)****Juncaceae**

<i>Juncus balticus</i>	Baltic rush
<i>Juncus bufonius</i>	toad rush
<i>Juncus effusus</i>	common bog rush
<i>Juncus ensifolius</i>	sword-leaved rush
<i>Juncus nevadensis</i>	Sierra rush
<i>Juncus orthophyllus</i>	straight-leaved rush
<i>Juncus oxymeris</i>	pointed rush
<i>Juncus parryi</i>	Parry's rush
<i>Juncus xiphioides</i>	iris-leaved rush
<i>Luzula comosa</i>	hairy wood rush
<i>Luzula parviflora</i>	small-flowered wood rush
<i>Luzula subcongesta</i>	Donner woodrush

Juncaginaceae

<i>Triglochin maritima</i>	arrowgrass
----------------------------	------------

Lamiaceae

<i>Agastache urticifolia</i>	horsemint
<i>Marrubium vulgare</i>	common horehound
<i>Mentha arvensis</i>	American wild mint
<i>Monardella lanceolata</i>	mustang mint
<i>Monardella odoratissima</i> ssp. <i>pallida</i>	pallid mountain monardella
<i>Prunella vulgaris</i> ssp. <i>lanceolata</i>	selfheal
<i>Pycnanthemum californicum</i>	Sierra mint
<i>Salvia columbariae</i>	chia sage
<i>Scutellaria siphocampyloides</i>	gray-leaved skullcap
<i>Stachys ajugoides</i> var. <i>ajugoides</i>	Ajuga hedge nettle
<i>Stachys ajugoides</i> var. <i>rigida</i>	rigid hedge nettle
<i>Stachys albens</i>	white hedgenettle

Lauraceae

<i>Umbellularia californica</i>	California bay
---------------------------------	----------------

Liliaceae

<i>Allium campanulatum</i>	Sierra onion
<i>Allium fimbriatum</i>	fringed onion
<i>Allium hyalinum</i>	glassy onion
<i>Allium obtusum</i>	red Sierra onion
<i>Allium validum</i>	Pacific mountain onion
<i>Brodiaea elegans</i>	harvest brodiaea
<i>Calochortus amoenus</i>	purple fairy lantern
<i>Calochortus leichtlinii</i>	Leichtlin's Mariposa lily
<i>Calochortus minimus</i>	lesser star-tulip
<i>Calochortus venustus</i>	butterfly mariposa lily
<i>Camassia quamash</i>	common camas
<i>Chlorogalum pomeridianum</i>	wavyleaf soap plant
<i>Clintonia uniflora</i>	bride's bonnet queen cup
<i>Dichelostemma capitatum</i>	wild hyacinth
<i>Dichelostemma volubile</i>	twining brodiaea
<i>Fritillaria atropurpurea</i>	mountain fritillary

Appendix I. Plant Species Observed During Field Surveys

SCIENTIFIC NAME	COMMON NAME
<u>VASCULAR SPECIES (continued)</u>	
Liliaceae (continued)	
<i>Lilium kelleyanum</i>	Kelley's lily
<i>Lilium pardalinum</i> ssp. <i>Pardalinum</i>	leopard lily
<i>Lilium parvum</i>	Sierra tiger lily
<i>Lilium washingtonianum</i>	Washinton lily
<i>Sisyrinchium idahoense</i>	Idaho blue-eyed grass
<i>Smilacena racemosa</i>	racemose false Solomon's-seal
<i>Smilacena stellata</i>	panicled false Solomon's-seal
<i>Tofieldia occidentalis</i> ssp. <i>occidentalis</i>	western tofieldia
<i>Triteleia hyacinthina</i>	wild hyacinth
<i>Triteleia ixioides</i> ssp. <i>scabra</i>	golden brodiaea, mountain prettyface
<i>Triteleia laxa</i>	Ithuriel's spear
<i>Veratrum californicum</i> var. <i>californicum</i>	corn-lily
<i>Zigadenus venenosus</i> var. <i>venenosus</i>	meadow deathcamas
Linaceae	
<i>Hesperolinon californicum</i>	California dwarf-flax
Losaceae	
<i>Mentzelia dispersa</i>	Nevada stickleaf
Malvaceae	
<i>Sidalcea glaucescens</i>	glaucus checker mallow
<i>Sidalcea oregana</i> ssp. <i>spicata</i>	Spicate Checker-Mallow
Oleaceae	
<i>Fraxinus dipetala</i>	California ash
<i>Fraxinus latifolia</i>	Oregon ash
Onagraceae	
<i>Camissonia sierrae</i> ssp. <i>alticola</i>	Mono Hot Springs evening-primrose
<i>Camissonia sierrae</i> ssp. <i>sierrae</i>	Yosemite evening-primrose
<i>Circaea alpina</i> ssp. <i>pacifica</i>	enchanter's nightshade
<i>Clarkia cylindrica</i> ssp. <i>clavicaarpa</i>	speckled clarkia
<i>Clarkia dudleyana</i>	Dudley's clarkia
<i>Clarkia heterandra</i>	California gaura
<i>Clarkia purpurea</i> ssp. <i>quadrivulnera</i>	purple clarkia, winecup clarkia
<i>Clarkia purpurea</i> ssp. <i>viminea</i>	winecup clarkia
<i>Clarkia rhomboidea</i>	rhomboid-leaf clarkia
<i>Clarkia unguiculata</i>	elegant clarkia
<i>Clarkia williamsonii</i>	Fort Miller clarkia
<i>Epilobium angustifolium</i> ssp. <i>circumvagum</i>	fireweed
<i>Epilobium brachycarpum</i>	annual fireweed
<i>Epilobium canum</i> ssp. <i>canum</i>	California fuchsia
<i>Epilobium canum</i> ssp. <i>latifolium</i>	California fuchsia
<i>Epilobium ciliatum</i> ssp. <i>ciliatum</i>	fringed willowherb
<i>Epilobium ciliatum</i> ssp. <i>glandulosum</i>	glandular willowherb
<i>Epilobium densiflorum</i>	dense-flowered willowherb
<i>Epilobium glaberrimum</i> ssp. <i>fastigiatum</i>	smooth willowherb
<i>Epilobium halleianum</i>	Hall's willow-herb
<i>Epilobium howellii</i>	subalpine fireweed

Appendix I. Plant Species Observed During Field Surveys

SCIENTIFIC NAME**COMMON NAME****VASCULAR SPECIES (continued)****Onagraceae (continued)**

<i>Epilobium torreyi</i>	Torrey's willowherb
<i>Gayophytum diffusum</i> ssp. <i>diffusum</i>	diffuse gayophytum
<i>Gayophytum diffusum</i> ssp. <i>parviflorum</i>	small-flowered gayophytum
<i>Gayophytum eriospermum</i>	Coville's groundsmoke
<i>Gayophytum humile</i>	low gayophytum
<i>Ludwigia palustris</i>	marsh purslane
<i>Oenothera elata</i> ssp. <i>hirsutissima</i>	Hooker's evening primrose

Orchidaceae

<i>Corallorrhiza maculata</i>	spotted coralroot
<i>Corallorrhiza striata</i>	striped coralroot
<i>Epipactis gigantea</i>	giant helleborine, stream orchid
<i>Piperia transversa</i>	royal rein orchid
<i>Piperia unalascensis</i>	Alaska rein orchid
<i>Platanthera leucostachys</i>	white rein orchid
<i>Platanthera sparsiflora</i>	green rein orchid
<i>Spiranthes porrifolia</i>	creamy ladies'-tresses
<i>Spiranthes romanzoffiana</i>	hooded ladies'-tresses

Orobanchaceae

<i>Orobanche fasciculata</i>	clustered broomrape
------------------------------	---------------------

Papaveraceae

<i>Dendromecon rigida</i>	bush poppy
---------------------------	------------

Pinaceae

<i>Abies concolor</i>	white fir
<i>Abies magnifica</i>	red fir
<i>Pinus contorta</i> ssp. <i>murrayana</i>	lodgepole pine
<i>Pinus jeffreyi</i>	Jeffrey pine
<i>Pinus lambertiana</i>	sugar pine
<i>Pinus monophylla</i>	single-leaf pinyon pine
<i>Pinus ponderosa</i>	ponderosa pine
<i>Pinus sabiniana</i>	California foothill pine

Plantaginaceae

<i>Plantago erecta</i>	California plantain
<i>Plantago lanceolata</i>	narrowleaf plantain

Poaceae

<i>Achnatherum occidentale</i> ssp. <i>pubescens</i>	pubescent western needlegrass
<i>Agrostis exarata</i>	spike bentgrass
<i>Agrostis gigantea</i>	giant bentgrass
<i>Agrostis oregonensis</i>	Oregon bentgrass, Oregon redtop
<i>Agrostis scabra</i>	ticklegass
<i>Agrostis thurberiana</i>	Thurber's bentgrass
<i>Agrostis viridis</i>	green bentgrass
<i>Aira caryophyllea</i>	silver hairgrass
<i>Alopecurus aequalis</i>	short-awn foxtail
<i>Andropogon virginicus</i> var. <i>virginicus</i>	broomsedge bluestem

Appendix I. Plant Species Observed During Field Surveys

SCIENTIFIC NAME**COMMON NAME****VASCULAR SPECIES (continued)****Poaceae (continued)**

<i>Avena barbata</i>	slender wild oats
<i>Avena fatua</i>	common wild oats
<i>Bromus carinatus</i> var. <i>carinatus</i>	California brome
<i>Bromus diandrus</i>	ripgut brome
<i>Bromus hordeaceus</i>	soft brome
<i>Bromus madritensis</i> ssp. <i>rubens</i>	foxtail brome
<i>Bromus tectorum</i>	cheatgrass, downy brome
<i>Cinna latifolia</i>	drooping woodreed
<i>Cynosurus echinatus</i>	annual dogtail
<i>Dactylis glomerata</i>	orchardgrass
<i>Danthonia californica</i> var. <i>americana</i>	American oatgrass
<i>Deschampsia cespitosa</i>	California hairgrass
<i>Deschampsia cespitosa</i> ssp. <i>cespitosa</i>	tufted hairgrass
<i>Elymus elymoides</i> ssp. <i>californicus</i>	California squirreltail
<i>Elymus glaucus</i> ssp. <i>glaucus</i>	blue wildrye
<i>Elymus glaucus</i> ssp. <i>jepsonii</i>	Jepson's blue wildrye
<i>Elymus multisetus</i>	big squirreltail
<i>Elytrigia intermedia</i> ssp. <i>intermedia</i>	intermediate wheatgrass
<i>Eragrostis mexicana</i> ssp. <i>virescens</i>	Mexican lovegrass
<i>Festuca occidentalis</i>	western fescue
<i>Glyceria elata</i>	tall mannagrass
<i>Hordeum brachyantherum</i> ssp. <i>brachyantherum</i>	meadow barley
<i>Hordeum murinum</i> ssp. <i>leporinum</i>	hare barley
<i>Leymus cinereus</i>	giant wild-rye
<i>Leymus triticoides</i>	valley wild-rye
<i>Lolium multiflorum</i>	Italian rye-grass
<i>Lolium perenne</i>	perennial ryegrass
<i>Melica bulbosa</i>	big oniongrass
<i>Melica californica</i>	California melicgrass
<i>Melica imperfecta</i>	small-flowered melica
<i>Muhlenbergia asperifolia</i>	scratchgrass
<i>Muhlenbergia richardsonis</i>	mat muhly
<i>Muhlenbergia rigens</i>	deer grass
<i>Panicum acuminatum</i>	western panicgrass
<i>Panicum capillare</i>	old witchgrass
<i>Phalaris aquatica</i>	Harding grass
<i>Phalaris arundinacea</i>	reed canarygrass
<i>Phalaris minor</i>	little canarygrass
<i>Phleum pratense</i>	timothy
<i>Piptatherum miliaceum</i>	smilo grass
<i>Poa annua</i>	annual bluegrass
<i>Poa bulbosa</i>	bulbous bluegrass
<i>Poa cusickii</i> ssp. <i>epilis</i>	Cusick's bluegrass
<i>Poa leptocoma</i>	bog blue grass
<i>Poa nemoralis</i>	wood bluegrass
<i>Poa pratensis</i>	Kentucky bluegrass
<i>Poa secunda</i> ssp. <i>juncifolia</i>	rush blue grass

Appendix I. Plant Species Observed During Field Surveys

SCIENTIFIC NAME**COMMON NAME****VASCULAR SPECIES (continued)****Poaceae (continued)**

<i>Poa secunda</i> ssp. <i>secunda</i>	pine bluegrass
<i>Poa wheeleri</i>	Wheeler's bluegrass
<i>Polypogon monspeliensis</i>	rabbit's foot
<i>Scribneria bolanderi</i>	Scribner's grass
<i>Setaria pumila</i>	yellow bristlegrass
<i>Torreyochloa pallida</i> var. <i>pauciflora</i>	pale false mannagrass
<i>Vulpia bromoides</i>	European foxtail fescue
<i>Vulpia microstachys</i> var. <i>pauciflora</i>	few-flowered fescue
<i>Vulpia myuros</i> var. <i>hirsuta</i>	foxtail fescue

Polemoniaceae

<i>Allophyllum gilioides</i> ssp. <i>gilioides</i>	dense false gilia
<i>Allophyllum gilioides</i> ssp. <i>violaceum</i>	false gilia
<i>Collomia grandiflora</i>	grand collomia
<i>Eriastrum sapphirinum</i>	sapphire woollystar
<i>Gilia capillaris</i>	miniature gilia
<i>Gilia capitata</i>	blue field gilia
<i>Gilia capitata</i> ssp. <i>abrotanifolia</i>	ball gilia
<i>Gilia leptalea</i>	Bridge's gilia
<i>Gilia leptomeria</i>	Great Basin gilia
<i>Gilia tricolor</i> ssp. <i>tricolor</i>	bird's-eye gilia
<i>Ipomopsis aggregata</i>	scarlet gilia, desert trumpet
<i>Leptodactylon pungens</i>	granite prickly phlox
<i>Linanthus ciliatus</i>	whisker-brush
<i>Linanthus dichotomus</i>	evening-snow
<i>Linanthus montanus</i>	mustang clover
<i>Linanthus pachyphyllus</i>	bush gilia
<i>Navarretia divaricata</i> ssp. <i>divaricata</i>	divaricate navarretia
<i>Phlox diffusa</i>	spreading phlox
<i>Phlox gracilis</i>	slender phlox

Polygonaceae

<i>Chorizanthe membranacea</i>	pink spineflower
<i>Eriogonum nudum</i> var. <i>deductum</i>	naked buckwheat
<i>Eriogonum nudum</i> var. <i>oblongifolium</i>	oblong-leaved buckwheat
<i>Eriogonum nudum</i> var. <i>pubiflorum</i>	hairy-flowered buckwheat
<i>Eriogonum spergulinum</i> var. <i>reddingianum</i>	Redding buckwheat
<i>Eriogonum umbellatum</i> var. <i>furcosum</i>	desert sulphur buckwheat
<i>Eriogonum vimineum</i>	wicker buckwheat
<i>Eriogonum wrightii</i>	Wright's buckwheat
<i>Eriogonum wrightii</i> var. <i>subscaposum</i>	Wright's buckwheat
<i>Polygonum arenastrum</i>	common knotweed
<i>Polygonum bistortoides</i>	American bistort
<i>Pterostegia drymarioides</i>	fairy mist
<i>Rumex acetosella</i>	common sheep sorrel
<i>Rumex crispus</i>	curly dock
<i>Rumex salicifolius</i>	willow dock

Appendix I. Plant Species Observed During Field Surveys

SCIENTIFIC NAME**COMMON NAME****VASCULAR SPECIES (continued)****Portulacaceae**

<i>Calyptridium monospermum</i>	single-seeded pussypaws
<i>Calyptridium umbellatum</i>	pussypaws
<i>Claytonia exigua</i> ssp. <i>exigua</i>	little spring beauty
<i>Claytonia perfoliata</i>	miner's lettuce
<i>Claytonia rubra</i>	red-stemmed spring beauty
<i>Lewisia disepala</i>	Yosemite lewisia
<i>Lewisia nevadensis</i>	Nevada lewisia
<i>Lewisia triphylla</i>	three-leaved lewisia
<i>Montia chamissoi</i>	toad lily

Potamogetonaceae

<i>Potamogeton natans</i>	pondweed
<i>Potamogeton nodosus</i>	long-leaved pondweed

Primulaceae

<i>Dodecatheon alpinum</i>	alpine shooting star
<i>Dodecatheon hendersonii</i>	Henderson's shooting star
<i>Dodecatheon jeffreyi</i>	Jeffrey's shooting star

Pteridaceae

<i>Aspidotis densa</i>	Indian's dream
<i>Cheilanthes gracillima</i>	lace lip fern
<i>Cryptogramma acrostichoides</i>	American parsley fern
<i>Pellaea andromedifolia</i>	coffee fern
<i>Pellaea mucronata</i> var. <i>mucronata</i>	bird's-foot fern
<i>Pentagramma triangularis</i>	goldenback fern

Ranunculaceae

<i>Aconitum columbianum</i>	Columbian monkshood
<i>Aquilegia formosa</i>	crimson columbine
<i>Clematis lasiantha</i>	chaparral clematis
<i>Clematis ligusticifolia</i>	western white clematis
<i>Delphinium gracilentum</i>	meadow larkspur
<i>Delphinium hansenii</i> ssp. <i>kernense</i>	Kern larkspur
<i>Delphinium hansenii</i> ssp. <i>hansenii</i>	Eldorado larkspur
<i>Delphinium nuttallianum</i>	Nuttall's larkspur
<i>Delphinium variegatum</i> ssp. <i>variegatum</i>	royal larkspur
<i>Isopyrum occidentale</i>	western false rue anemone
<i>Kumlienya hystricula</i>	waterfall false buttercup
<i>Ranunculus alismifolius</i> var. <i>alismifolius</i>	water plantain buttercup
<i>Ranunculus alismaefolius</i>	alisa-leaved buttercup
<i>Ranunculus flammula</i>	creeping buttercup
<i>Ranunculus muricatus</i>	pricklefruit buttercup
<i>Ranunculus occidentalis</i>	western buttercup
<i>Ranunculus orthorhynchus</i> var. <i>orthorhynchus</i>	straight-beaked buttercup
<i>Ranunculus uncinatus</i>	hook-seeded buttercup
<i>Thalictrum fendleri</i>	Fendler's meadow rue
<i>Thalictrum sparsiflorum</i>	few-flowered meadow rue

Appendix I. Plant Species Observed During Field Surveys

SCIENTIFIC NAME**COMMON NAME****VASCULAR SPECIES (continued)****Rhamnaceae**

<i>Ceanothus cordulatus</i>	mountain whitethorn
<i>Ceanothus cuneatus</i>	buck brush
<i>Ceanothus diversifolius</i>	pinemat
<i>Ceanothus integerrimus</i>	deer brush
<i>Ceanothus leucodermis</i>	chaparral whitethorn
<i>Ceanothus parvifolius</i>	little-leaf ceanothus
<i>Rhamnus ilicifolia</i>	evergreen buckthorn
<i>Rhamnus rubra</i>	Sierra coffeeberry

Rosaceae

<i>Amalanchier utahensis</i>	Utah service-berry
<i>Cercocarpus betuloides</i> var. <i>betuloides</i>	birch leaf mountain mahogany
<i>Chamaebatia foliosa</i>	mountain misery
<i>Fragaria virginiana</i>	broad-petaled strawberry
<i>Geum macrophyllum</i>	large-leaved avens
<i>Heteromeles arbutifolia</i>	christmas berry, toyon
<i>Holodiscus discolor</i>	ocean spray
<i>Horkelia fusca</i> ssp. <i>parviflora</i>	small-flowered horkelia
<i>Horkelia tridentata</i> ssp. <i>tridentata</i>	three-toothed horkelia
<i>Ivesia santolinoides</i>	mouse-tail ivesia
<i>Potentilla glandulosa</i>	sticky-leaved cinquefoil
<i>Potentilla gracilis</i>	slender cinquefoil
<i>Potentilla gracilis</i> var. <i>fastigiata</i>	slender cinquefoil
<i>Prunus emarginata</i>	bitter cherry
<i>Purshia tridentata</i>	antelope bush
<i>Rosa woodsii</i> var. <i>ultramontana</i>	mountain rose
<i>Rubus discolor</i>	Himalayan blackberry
<i>Rubus leucodermis</i>	western raspberry
<i>Rubus parviflorus</i>	thimbleberry
<i>Rubus ursinus</i>	California blackberry
<i>Sorbus californica</i>	California mountain ash
<i>Sorbus scopulina</i> var. <i>scopulina</i>	Greene's mountain ash
<i>Spiraea densiflora</i>	dense-flowered spiraea

Rubiaceae

<i>Galium angustifolium</i> ssp. <i>angustifolium</i>	narrow-leaved bedstraw
<i>Galium aparine</i>	common bedstraw
<i>Galium bolanderi</i>	Bolander's bedstraw
<i>Galium parisiense</i>	wall bedstraw
<i>Galium porrigens</i> var. <i>tenuis</i>	graceful bedstraw
<i>Galium sparsiflorum</i>	Sequoia bedstraw
<i>Galium trifidum</i>	three-petaled bedstraw
<i>Galium trifidum</i> var. <i>pacificum</i>	Pacific bedstraw
<i>Kelloggia galioides</i>	milk kelloggia

Salicaceae

<i>Populus balsamifera</i> ssp. <i>trichocarpa</i>	black cottonwood
<i>Populus fremontii</i> ssp. <i>fremontii</i>	Fremont cottonwood
<i>Populus tremuloides</i>	quaking aspen

Appendix I. Plant Species Observed During Field Surveys

SCIENTIFIC NAME	COMMON NAME
<u>VASCULAR SPECIES (continued)</u>	
Salicaceae (continued)	
<i>Salix eastwoodiae</i>	Sierra willow
<i>Salix exigua</i>	narrowleaf willow
<i>Salix jepsonii</i>	Jepson's willow
<i>Salix lasiolepis</i>	arroyo willow
<i>Salix lemmonii</i>	Lemmon's willow
<i>Salix ligulifolia</i>	tongueleaf willow
<i>Salix lucida</i>	shining willow
<i>Salix lutea</i>	yellow willow
<i>Salix orestera</i>	gray-leaf Sierra willow
<i>Salix scouleriana</i>	Scouler willow
Santalaceae	
<i>Comandra umbellata</i> ssp. <i>californica</i>	California bastard toadflax
Saxifragaceae	
<i>Darmera peltata</i>	Indian rhubarb, umbrella plant
<i>Heuchera micrantha</i>	small-flowered heuchera
<i>Heuchera rubescens</i>	pink alumroot
<i>Lithophragma affine</i>	woodland star
<i>Lithophragma bolanderi</i>	Bolander's woodland star
<i>Lithophragma glabra</i>	bulbous woodland star
<i>Lithophragma glabrum</i>	rock star
<i>Lithophragma parviflorum</i> var. <i>parviflorum</i>	small flower woodland star
<i>Mitella breweri</i>	Brewer's mitrewort
<i>Parnassia californica</i>	California grass of Parnassus
<i>Saxifraga californica</i>	California saxifrage
<i>Saxifraga nidifica</i> var. <i>nidifica</i>	peak saxifrage
<i>Saxifraga odontoloma</i>	streambank saxifrage
<i>Saxifraga oregana</i>	bog saxifrage
Scrophulariaceae	
<i>Castilleja applegatei</i> ssp. <i>disticha</i>	forked wavy-leaf paintbrush
<i>Castilleja applegatei</i> ssp. <i>martinii</i>	Martin's paintbrush
<i>Castilleja applegatei</i> ssp. <i>pinetorum</i>	pine wavy-leaf paintbrush
<i>Castilleja attenuata</i>	narrow-leaved owl's clover
<i>Castilleja exserta</i>	purple owl's clover
<i>Castilleja lacera</i>	cut-leaved owl's clover
<i>Castilleja miniata</i> ssp. <i>miniata</i>	scarlet paintbrush
<i>Castilleja tenuis</i>	hairy owl's clover
<i>Collinsia bartsiiifolia</i> var. <i>bartsiiifolia</i>	white blue-eyed Mary
<i>Collinsia heterophylla</i>	purple Chinese houses
<i>Collinsia parviflora</i>	small flowered blue-eyed Mary
<i>Collinsia sparsiflora</i>	few flowered blue-eyed Mary
<i>Collinsia torreyi</i> var. <i>torreyi</i>	Torrey's blue eyed Mary
<i>Collinsia torreyi</i> var. <i>wrightii</i>	Wright's blue-eyed Mary
<i>Cordylanthus rigidus</i>	rigid bird's beak
<i>Cordylanthus tenuis</i> ssp. <i>tenuis</i>	slender bird's beak
<i>Keckiella breviflora</i> var. <i>breviflora</i>	gaping keckiella
<i>Keckiella breviflora</i> var. <i>glabrisepala</i>	hairless gaping keckiella

Appendix I. Plant Species Observed During Field Surveys

SCIENTIFIC NAME	COMMON NAME
<u>VASCULAR SPECIES (continued)</u>	
Scrophulariaceae (continued)	
<i>Mimulus bicolor</i>	yellow and white monkeyflower
<i>Mimulus bolanderi</i>	Bolander's monkeyflower
<i>Mimulus breweri</i>	Brewer's monkeyflower
<i>Mimulus cardinalis</i>	cardinal monkey flower
<i>Mimulus guttatus</i>	common yellow monkeyflower
<i>Mimulus inconspicuus</i>	small-flowered monkeyflower
<i>Mimulus laciniatus</i>	cut-leaved monkeyflower
<i>Mimulus laynea</i>	Layne's monkeyflower
<i>Mimulus lewisii</i>	Lewis' monkey-flower
<i>Mimulus mephiticus</i>	skunky monkeyflower
<i>Mimulus moschatus</i>	musk monkeyflower
<i>Mimulus primuloides</i> ssp. <i>primuloides</i>	primrose monkeyflower
<i>Mimulus whitneyi</i>	Whitney's monkeyflower
<i>Pedicularis atollens</i>	little elephant heads
<i>Pedicularis densiflora</i>	Indian warrior
<i>Pedicularis semibarbata</i>	pine-woods lousewort
<i>Penstemon azureus</i> var. <i>azureus</i>	azure penstemon
<i>Penstemon grinnellii</i> var. <i>scrophularioides</i>	Grinnell's beardtongue
<i>Penstemon newberryi</i> var. <i>newberryi</i>	Newberry's penstemon
<i>Penstemon procerus</i>	Small-flowered Penstemon
<i>Penstemon rostriflorus</i>	Bridge's penstemon
<i>Penstemon rydbergii</i> var. <i>oreocharis</i>	mountain meadow beardtongue
<i>Verbascum thapsus</i>	common mullein
<i>Veronica anagallis-aquatica</i>	water speedwell
<i>Veronica arvensis</i>	corn speedwell
<i>Veronica peregrina</i> ssp. <i>xalapensis</i>	neckweed
<i>Veronica serpyllifolia</i>	thyme-leaved speedwell
Selaginellaceae	
<i>Selaginella hansenii</i>	selaginella
Simaroubaceae	
<i>Ailanthus altissima</i>	tree of heaven
Solanaceae	
<i>Datura wrightii</i>	jimsonweed
<i>Nicotiana acuminata</i> var. <i>multiflora</i>	many-flowered tobacco
<i>Nicotiana attenuata</i>	coyote tobacco
<i>Solanum xantii</i>	nightshade
Sterculiaceae	
<i>Fremontodendron californicum</i> ssp. <i>californicum</i>	California flannelbush
Taxodiaceae	
<i>Sequoiadendron giganteum</i>	giant redwood

Appendix I. Plant Species Observed During Field Surveys

SCIENTIFIC NAME	COMMON NAME
<u>VASCULAR SPECIES (continued)</u>	
Typhaceae	
<i>Sparganium angustifolium</i>	narrowleaf bur-reed
<i>Typha angustifolia</i>	narrowleaf cattail
<i>Typha latifolia</i>	broadleaf cattail
Valerianaceae	
<i>Plectritis ciliosa</i> ssp. <i>ciliosa</i>	long-spurred plectritis
<i>Valeriana californica</i>	California valerian
Verbenaceae	
<i>Verbena lasiostachys</i>	common verbena
Violaceae	
<i>Viola adunca</i>	western dog violet
<i>Viola bakeri</i>	Baker's violet
<i>Viola glabella</i>	stream violet
<i>Viola lobata</i>	pine violet
<i>Viola macloskeyi</i>	Macloskey's violet
<i>Viola pinetorum</i> ssp. <i>pinetorum</i>	pine violet
<i>Viola purpurea</i> ssp. <i>integrifolia</i>	mountain violet
<i>Viola purpurea</i> ssp. <i>quercetorum</i>	goosefoot yellow violet
Viscaceae	
<i>Arceuthobium</i> sp.	dwarf mistletoe
<i>Phoradendron juniperinum</i>	juniper mistletoe
<i>Phoradendron villosum</i>	oak mistletoe
Vitaceae	
<i>Parthenocissus quinquefolia</i>	Virginia creeper
<i>Vitus californica</i>	California wild grape
Various Ornamentals	

APPENDIX J

California Native Species Field Survey Forms and Maps

Placeholder for Appendix J

Non-Internet Public Information

This Appendix has been removed in accordance with the Commission regulations at 18 CFR Section 388.112.

This Appendix is considered Non-Internet Public information and should not be posted on the Internet. This information is provided in Volume 4 of the Application for New License and is identified as “Non-Internet Public” information. This information may be accessed from the FERC’s Public Reference Room, but is not expected to be posted on the Commission’s electronic library, except as an indexed item.

APPENDIX K

Photographs of Special-status Plant Species Observed in the Big Creek ALP Study Area



Mono Hot Springs evening-primrose (*Cammissonia sierrae* ssp. *alticola*)



Yosemite evening-primrose (*Cammissonia sierrae* ssp. *alticola*)



Yosemite lewisia (*Lewisia disepala*)



Yosemite lewisia (*Lewisia disepala*)



subalpine fireweed (*Epilobium howellii*)



short-leaved hulsea (*Hulsea brevifolia*)



short-leaved hulsea (*Hulsea brevifolia*)



short-leaved hulsea (*Hulsea brevifolia*)



Yosemite evening-primrose (*Cammissonia sierrae* ssp. *sierrae*)



Small-flowered monkeyflower (*Mimulus inconspicuus*)



cut-leaved monkey flower (*Mimulus laciniatus*)



cut-leaved monkey flower (*Mimulus laciniatus*)

APPENDIX L

Summary Results of Special-status Plant Surveys by Plant Species

Appendix L. Results of Special-Status Plant Species Surveys

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Detection During ALP Special-Status Plant Surveys
Special-Status Plant Species (Non Riparian/Aquatic Species)				
Federally Listed or Candidate and Other Status				
¹ <i>Calyptidium pulchellum</i> Mariposa pussypaws	FT, FSS, CNPS 1B	April-August	Cismontane woodland in shallow granite soils on granitic domes, restricted to exposed sites. 1,300-3,600 ft.	Not detected
<i>Sidalcea keckii</i> Keck's checkerbloom	FE, CNPS 1B	April-May	Cismontane woodland, valley and foothill grassland; serpentine and clay substrate. 393-1,394 ft.	Not detected.
State Listed or Candidate and Other Status				
<i>Allium yosemitense</i> Yosemite onion	CR, FSS, CNPS 1B	April-July	Broadleafed upland forest, chaparral, cismontane woodland, lower montane coniferous forest; rocky, metamorphic substrate. 1,755-7,200 ft.	Not detected.
<i>Carex tompkinsii</i> Tompkin's sedge	CR, FSW, CNPS 4	May-July	Chaparral, cismontane woodland, lower montane coniferous forest, upper montane coniferous forest; sometimes granitic substrate. 1,375-6,005 ft.	Not detected.
¹ <i>Carpenteria californica</i> tree-anemone	CT, FSS, CNPS 1B	May-July	Cismontane woodland, chaparral. Endemic to Fresno County. Very localized on well-drained granitic soils, mostly on north-facing ravines and drainages. 1,500-4,000 ft.	Not detected in the Project area. This species was identified in the vicinity of the Project, but outside of the Project area, in the vicinity of Powerhouse 3.
<i>Clarkia lingulata</i> Merced clarkia	CE, FSS, CNPS 1B	May-June	Chaparral, cismontane woodland. 1312-1492 ft.	Not detected.
<i>Eriophyllum congdonii</i> Congdon's woolly sunflower	CR, FSS, FSC, CNPS 1B	May-June	Chaparral, cismontane woodland, lower montane coniferous forest: on metamorphic soils. 1,600-6,200 ft.	Not detected.

Appendix L. Results of Special-Status Plant Species Surveys

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Detection During ALP Special-Status Plant Surveys
Special-Status Plant Species (Non Riparian/Aquatic Species) (continued)				
State Listed or Candidate and Other Status (continued)				
<i>Gratiola heterosepala</i> Boggs Lake hedge-hyssop	CE, CNPS 1B	April-August	Marshes and swamps (lake margins), vernal pools. 32-7,791 ft.	Not detected.
Forest Service Sensitive and Other Status				
¹ <i>Botrychium crenulatum</i> scalloped moonwort	FSS, FSC, CNPS 2	Fertile June to July	Lower montane coniferous forests, oak woodlands, and chaparral, open rocky slopes. 4,900-10,765 ft.	Not detected.
<i>Bruchia bolanderi</i> moss	FSS, CNPS 2	N/A	Lower montane coniferous forest, meadows and seeps, upper montane coniferous forest: damp soil. 5,575- 9,190 ft.	This species has the potential to occur in meadows or on vertical banks of streams in mixed coniferous forests along bypass and flow-augmented streams within the Project area. Focused surveys were not conducted in these areas, but rather, a habitat-based approach was used. Where focused surveys were conducted, the species was not identified.
¹ <i>Camissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening primrose	FSS, FSC, CNPS 1B	May-August	Lower montane coniferous forest, upper montane coniferous forest; granitic, gravel and sand pans. 4,500-8,500 ft.	Twenty-two populations were identified within the Project area in decomposed granite and cracks in granite bedrock. Two populations are located near Mammoth Pool, one at Bear Forebay, and the rest are in the Florence Lake area. One of these populations located near SCE Florence Lake Workcamp is a known occurrence.
<i>Clarkia biloba</i> ssp. <i>australis</i> Mariposa clarkia	FSS, FSC, CNPS 1B	May-July	Chaparral, cismontane woodland. 980- 3,100 ft.	Not detected.
¹ <i>Cypripedium montanum</i> mountain lady's slipper	FSS, CNPS 4	March-August	Broad-leaved upland and lower montane coniferous forests, moist or dry shaded slopes. 700-7,200 ft.	Not detected.
¹ <i>Delphinium inopinum</i> unexpected larkspur	FSS, CNPS 4	May-July	Alpine boulder and rock fields at high elevations in rocky soil at the extreme southern boundary of the Sierra National Forest. 7,200-9,200 ft.	Not detected.

Appendix L. Results of Special-Status Plant Species Surveys

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Detection During ALP Special-Status Plant Surveys
Special-Status Plant Species (Non Riparian/Aquatic Species) (continued)				
Forest Service Sensitive and Other Status (continued)				
¹ <i>Dicentra nevadensis</i> Tulare County bleeding heart	FSS, CNPS 4	June-October	Subalpine coniferous forest in gravelly openings. 7,200-10,000 ft.	Not detected.
¹ <i>Epilobium howellii</i> subalpine fireweed	FSS, CNPS 1B	July-August	Meadows, subalpine coniferous forest, wet meadows, mossy seeps. 6,500-9,000 ft.	Three populations were identified in wet meadows within the Project area. One population is located on the shore of Huntington Lake, one near the Kokanee Work Camp, and the third population ² was found near the Portal Forebay Distribution Line. Subalpine fireweed has the potential to occur in meadows and seeps along bypass and flow-augmented reaches within the Project area. Focused surveys were not conducted in these areas, but rather, a habitat-based approach was used.
¹ <i>Erigeron aequifolius</i> Hall's daisy	FSS, CNPS 1B	July-August	Broad-leaved upland forest, lower and upper montane coniferous forest, pinyon-juniper woodland, rocky soils. 4,900-8,000 ft.	Not detected.
¹ <i>Eriogonum prattenianum</i> var. <i>avium</i> Kettle Dome buckwheat	FSS, CNPS 4	June-August	Upper montane coniferous forest on granitic soils. 3,900-8,500 ft.	Not detected.
¹ <i>Erythronium pluriflorum</i> Shuteye Peak fawn lily	FSS, CNPS 1B	May-July	Upper montane coniferous forest, meadows, subalpine coniferous forest, rocky granitic outcrops and slopes. 6,758-8,366 ft.	Not detected.
¹ <i>Hulsea brevifolia</i> short-leaved hulsea	FSS, CNPS 1B	May-August	Granitic or volcanic soils in openings and under canopy in mixed conifer and red fir forest. 4,900-8,900 ft.	Seven populations were identified in Sierran mixed conifer forest openings within the Project area. These populations are located in the Balsam Meadow Forebay area.
¹ <i>Lewisia disepala</i> Yosemite lewisia	FSS, FSC, CNPS 1B	April-June	Lower montane coniferous forest, pinyon juniper woodland, upper montane coniferous forest, fine gravel on rock outcrops or domes. 4,250-11,000 ft.	One population was identified within the Project area. The site is located on a granitic dome along the road to Mammoth Pool Dam.

Appendix L. Results of Special-Status Plant Species Surveys

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Detection During ALP Special-Status Plant Surveys
Special-Status Plant Species (Non Riparian/Aquatic Species) (continued)				
Forest Service Sensitive and Other Status (continued)				
¹ <i>Lupinus citrinus</i> var. <i>citrinus</i> orange lupine	FSS, FSC, CNPS 1B	April-July	Chaparral, cismontane woodland, lower montane coniferous forest, rocky granitic outcrops, usually in open areas (forest openings), on flat to rolling terrain. 2,000-5,000 ft.	Not detected.
¹ <i>Meesia triquetra</i> moss	FSS, CNPS 2	N/A	In bogs and wet woods. 6,000-8,000 ft.	This species has the potential to occur in acidic montane meadows in coniferous forests along bypass and flow-augmented streams within the Project area. Focused surveys were not conducted in these areas, but rather, a habitat-based approach was used. Where focused surveys were conducted, the species was not identified.
¹ <i>Meesia uliginosa</i> moss	FSS, CNPS 2	N/A	In bogs and rock fissures, usually in alpine or arctic regions, sometimes in the lowlands. 7,500-9,000 ft.	This species has the potential to occur in saturated meadows in mixed coniferous forests and red fir/lodgepole pine forests along bypass and flow-augmented streams within the Project area. Focused surveys were not conducted in these areas, but rather, a habitat-based approach was used. Where focused surveys were conducted, the species was not identified.
<i>Mimulus filicaulis</i> slender-stemmed monkeyflower	FSS, FSC, CNPS 1B	April-August	Cismontane woodland, lower montane coniferous forest, meadows and seeps, upper montane coniferous forest; vernal mesic environment. 2,950-5,745 ft.	Not detected.
¹ <i>Mimulus gracilipes</i> Slender-stalked monkeyflower	FSS, CNPS 1B	April-June	Lower and upper montane coniferous forest, pinyon-juniper woodlands; granitic sand substrate. 1,600-4,300 ft.	Not detected. There is a known occurrence about three miles southwest of Shaver Lake.
<i>Mimulus pulchellus</i> pansy monkeyflower	FSS, CNPS 1B	May-July	Lower montane coniferous forest, meadows and seeps; vernal mesic environment. 1,965-6,565 ft.	Not detected.
<i>Raillardiopsis muirii</i> Muir's tarplant	FSS, CNPS 1B	July-August	Chaparral (montane), lower montane coniferous forest, upper montane coniferous forest. 3,605-8,205 ft.	Not detected.

Appendix L. Results of Special-Status Plant Species Surveys

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Detection During ALP Special-Status Plant Surveys
Special-Status Plant Species (Non Riparian/Aquatic Species) (continued)				
Forest Service Sensitive and Other Status (continued)				
<i>Streptanthus fenestratus</i> Tehipite Valley jewel-flower	FSS, FSC, CNPS 1B	April-July	Lower montane coniferous forest, upper montane coniferous forest. 3,490-5,745 ft.	Not detected.
<i>Trifolium bolanderi</i> Bolander's clover	FSS, FSC, CNPS 1B	June-August	Lower montane coniferous forest, meadows and seeps, upper montane coniferous forest mesic environment. 7,900-8,530 ft.	This species has the potential to occur in meadows or seeps along bypass and flow-augmented streams within the Project area. Focused surveys were not conducted in these areas, but rather, a habitat-based approach was used. Where focused surveys were conducted, the species was not identified.
¹ <i>Viola pinetorum</i> ssp. <i>grisea</i> grey-leaved violet	FSS, CNPS 1B	April-July	Dry peaks and slopes in subalpine conifer forest and upper montane conifer forest. 4,875-11,050 ft.	Not detected.
Federal or State Species of Concern or CNPS 1B and 2 and Other Status				
<i>Angelica callii</i> Call's angelica	FSW, CNPS 4	June-July	Cismontane woodland, lower montane coniferous forest; mesic environment. 3,600-6,565 ft.	Not detected.
<i>Balsamorhiza macrolepis</i> var. <i>macrolepis</i> big-scale balsamroot	FSW, FSC, CNPS 1B	March-June	Chaparral, cismontane woodland, valley and foothill grassland; sometimes serpentinite substrate. 295-5,000 ft.	Not detected.
<i>Bolandra californica</i> Sierra bolandra	FSW, CNPS 4	June-July	Lower montane coniferous forest, upper montane coniferous forest: mesic environment, rocky substrate. 3,200-8,040 ft.	Not detected.
¹ <i>Botrychium lunaria</i> common moonwort	FSC, CNPS 2	Fertile August	Lower montane coniferous forests, oak woodlands, and chaparral, open rocky slopes. 7,480-11,155 ft.	Not detected.
<i>Botrychium minganense</i> Mingan moonwort	FSW, CNPS 2	Fertile July to August	Lower montane coniferous forests, oak woodlands, and chaparral, open rocky slopes. 4,900-6,005 ft.	Not detected.

Appendix L. Results of Special-Status Plant Species Surveys

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Detection During ALP Special-Status Plant Surveys
Special-Status Plant Species (Non Riparian/Aquatic Species) (continued)				
Federal or State Species of Concern or CNPS 1B and 2 and Other Status (continued)				
<i>Botrychium simplex</i> Yosemite moonwort	FSW	N/A	Lower montane coniferous forests, oak woodlands, and chaparral, open rocky slopes. 7,215-10,830 ft.	Not detected.
<i>Calystegia malacophylla</i> var. <i>berryi</i> Berry's morning-glory	FSW, CNPS 3	July-August	Chaparral, lower montane coniferous forest. 2,000-8,010 ft.	Not detected.
<i>Camissonia sierrae</i> ssp. <i>sierrae</i> Sierra's sun-cup	FSW, CNPS 4	April-June	Cismontane woodland, lower montane coniferous forest. 1,640-4,265 ft.	Six populations were identified within the Project area in granitic gravel/sand. Four populations are located in the Mammoth Pool area, one near Shaver Lake Dam, and one near Shakeflat Creek trail.
<i>Carex congdonii</i> Congdon's sedge	FSW, CNPS 4	July-August	Alpine boulder and rock field, subalpine coniferous forest; rocky substrate. 8,530-12,795 ft.	Not detected.
<i>Carex limosa</i> shore sedge	CNPS 2	June-August	Bogs and fens, lower montane coniferous forest, meadows and seeps, marshes and swamps, upper montane coniferous forest. 3,937-8,858 ft.	Not detected.
<i>Carex praticola</i> meadow sedge	CNPS 2	May-July	Meadows and seeps; mesic environment. 0-10,498 ft.	This species has the potential to occur in meadows or seeps along bypass and flow-augmented streams within the Project area. Focused surveys were not conducted in these areas, but rather, a habitat-based approach was used. Where focused surveys were conducted, the species was not identified.
<i>Ceanothus fresnensis</i> Fresno ceanothus	FSW, CNPS 4	May-June	Cismontane woodland, lower montane coniferous forest. 2,950-6,565 ft.	Not detected.
<i>Claytonia megarhiza</i> fell-fields claytonia	FSW, CNPS 2	July-August	Alpine boulder and rock field, subalpine coniferous forest; rocky or gravelly substrate. 8,530-10,826 ft.	Not detected.
<i>Claytonia palustris</i> marsh claytonia	FSW, CNPS 4	May-August	Meadows and seeps, mesic environment, marshes and swamps. 3,280-8,200 ft.	Not detected.

Appendix L. Results of Special-Status Plant Species Surveys

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Detection During ALP Special-Status Plant Surveys
Special-Status Plant Species (Non Riparian/Aquatic Species) (continued)				
Federal or State Species of Concern or CNPS 1B and 2 and Other Status (continued)				
<i>Cordylanthus tenuis</i> ssp. <i>barbatus</i> Fresno county bird's-beak	FSW, FSC, CNPS 4	July-August	Lower montane coniferous forest. 4,265-6,561 ft.	Not detected.
<i>Delphinium hansenii</i> ssp. <i>ewanianum</i> Ewan's larkspur	FSW, FSC, CNPS 4	March-May	Cismontane woodland, valley and foothill grassland; rocky substrate. 195-1,965 ft.	Not detected.
<i>Didymodon norrisii</i> moss	CNPS 2	N/A	Cismontane woodland. Lower montane coniferous forest, intermittently mesic environment, rock substrate. 1,968-5,577 ft.	Not detected.
<i>Drosera rotundifolia</i> roundleaf sundew	FSW	June-September	Sphagnum bogs. 0-6,565 ft.	Not detected.
<i>Erigeron inornatus</i> var. <i>keilii</i> Keil's daisy	FSW, CNPS 1B	June-September	Lower montane coniferous forest, meadows and seeps. 5,905-7,215 ft.	Not detected.
<i>Eriophyllum lanatum</i> var. <i>obovatum</i> Southern Sierra woolly sunflower	FSW, CNPS 4	June-July	Lower montane coniferous forest, upper montane coniferous forest. 4,265-8,205 ft.	Not detected.
<i>Horkelia parryi</i> Parry's horkelia	FSW, FSC, CNPS 1B	April-June	Chaparral, cismontane woodland. 260-3,395 ft.	Not detected.
<i>Ivesia campestris</i> field ivesia	FSW, CNPS 1B	June-August	Meadows and seeps (edges), subalpine coniferous forest, upper montane coniferous forest. 6,480-10,995 ft.	Not detected.
<i>Ivesia unguiculata</i> Yosemite ivesia	FSW, CNPS 4	June-September	Meadows, subalpine coniferous forest, upper montane coniferous forest. Moist, open slopes and meadows. 4,900-9,600 ft.	This species has the potential to occur in meadows or seeps along bypass and flow-augmented streams within the Project area. Focused surveys were not conducted in these areas, but rather, a habitat-based approach was used. Where focused surveys were conducted, the species was not identified.

Appendix L. Results of Special-Status Plant Species Surveys

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Detection During ALP Special-Status Plant Surveys
Special-Status Plant Species (Non Riparian/Aquatic Species) (continued)				
Federal or State Species of Concern or CNPS 1B and 2 and Other Status (continued)				
<i>Jamesia americana</i> var. <i>rosea</i> rosy-petaled cliffbush	FSW, CNPS 4	May-September	Alpine boulder and rock field, Great Basin scrub, pinyon and juniper woodland, subalpine coniferous forest; granitic or carbonate, rocky substrate. 7,380-12,140 ft.	Not detected.
<i>Jepsonia heteranda</i> foothill jepsonia	FSW, CNPS 4	August-December	Cismontane woodland, lower montane coniferous forest; rocky, metamorphic substrate. 160-1,640 ft.	Not detected.
<i>Lilium humboldtii</i> ssp. <i>humboldtii</i> Humboldt lily	CNPS 4, FSW	May-July	Chaparral, cismontane woodland, lower montane coniferous forest: openings. 295-3,610 ft.	Not detected.
<i>Linanthus serrulatus</i> Madera linanthus	FSW, FSC, CNPS 1B	April-May	Cismontane woodland, lower montane coniferous forest. Dry slopes. 1,000-4,000 ft.	Not detected.
<i>Lupinus gracilentus</i> slender lupine	FSW, CNPS 1B	July-August	Subalpine coniferous forest. 8,202-11,482 ft.	Not detected.
<i>Madia yosemitana</i> Yosemite tarplant	FSW, CNPS 3	April-July	Lower montane coniferous forest, meadows and seeps. 3,940-7,550 ft.	Not detected.
<i>Mimulus acutidens</i> King's River monkeyflower	FSW, CNPS 3	April-July	Cismontane woodland, lower montane coniferous forest. 1,000-4,005 ft.	Not detected.
<i>Mimulus grayi</i> Gray's monkeyflower	FSW, CNPS 4	May-July	Lower montane coniferous forest, upper montane coniferous forest; mesic environment. 1800-9515 ft.	Not detected.
<i>Mimulus inconspicuus</i> small-flowered monkeyflower	FSW, CNPS 4	May-June	Chaparral, cismontane woodland, lower montane coniferous forest; mesic environment. 528-6,600 ft.	One population was identified within the Project area. This site is located near Shaver Lake Dam along a dirt road, in a Sierran mixed coniferous forest.
<i>Mimulus laciniatus</i> cut-leaved monkeyflower	FSW, CNPS 4	April-July	Chaparral, lower montane coniferous forest, upper montane coniferous forest; mesic environment, granitic substrate. 1,605-8,695 ft.	Twenty populations were identified in granitic seeps within the Project area. Ten sites are located in the Shaver Lake area and ten are located in the Florence Lake area.

Appendix L. Results of Special-Status Plant Species Surveys

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Detection During ALP Special-Status Plant Surveys
Special-Status Plant Species (Non Riparian/Aquatic Species) (continued)				
Federal or State Species of Concern or CNPS 1B and 2 and Other Status (continued)				
<i>Monardella candicans</i> Sierra monardella	FSW, CNPS 4	April-July	Chaparral, cismontane woodland, lower montane coniferous forest; sandy or gravelly substrate. 490-2,625 ft.	Not detected.
<i>Monardella linooides</i> ssp. <i>oblonga</i> flax-like monardella	FSC, CNPS 1B	June-August	Lower montane coniferous forest, pinyon and juniper woodland, upper montane coniferous forest. 2,952-8,103 ft.	Not detected.
<i>Nemophila parviflora</i> var. <i>quercifolia</i> oak-leaved nemophila	FSW, CNPS 4	May-June	Cismontane woodland, lower montane coniferous forest. 2,295-7,220 ft.	Not detected.
<i>Perideridia bacigalupii</i> Bacigalupi's yampah	FSW, CNPS 4	June-August	Chaparral, lower montane coniferous forest; serpentinite substrate. 1,475-3,285 ft.	Not detected.
<i>Phacelia orogenes</i> mountain phacelia	FSW, CNPS 4	July-August	Meadows and seeps, pinyon and juniper woodland, subalpine coniferous forest; mesic environment. 7,870-11,155 ft.	This species has the potential to occur in meadows or seeps along bypass and flow-augmented streams within the Project area. Focused surveys were not conducted in these areas, but rather, a habitat-based approach was used. Where focused surveys were conducted, the species was not identified.
<i>Plagiobothrys myosotoides</i> forget-me-not popcorn-flower	FSW, CNPS 4	April-May	Chaparral. 1,640-6,565 ft.	Not detected.
<i>Polystichum lonchitis</i> holly fern	FSW, CNPS 3	Fertile June to September	Subalpine coniferous forest, upper montane coniferous forest; granitic or carbonate substrate. 5,905-8,530 ft.	Not detected.
<i>Potamogeton epihydrus</i> ssp. <i>nuttallii</i> Nuttall's pondweed	FSW, CNPS 2	July-August	Marshes and swamps (assorted shallow freshwater). 1,310-6,235 ft.	Not detected.
<i>Rhyncospora californica</i> California beaked-rush	FSW, FSC, CNPS 1B	May-July	Bogs and fens, lower montane coniferous forest, meadows and seeps (seeps), marshes and swamps (freshwater). 145-3,315 ft.	Not detected.

Appendix L. Results of Special-Status Plant Species Surveys

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Detection During ALP Special-Status Plant Surveys
Special-Status Plant Species (Non Riparian/Aquatic Species) (continued)				
Federal or State Species of Concern or CNPS 1B and 2 and Other Status (continued)				
<i>Ribes menziesii</i> var. <i>ixoderme</i> aromatic canyon gooseberry	FSW, CNPS 1B	April	Chaparral, cismontane woodland. 2,000-3,805 ft.	Not detected.
<i>Sphenopholis obtusata</i> prairie wedge grass	FSW, CNPS 2	April-July	Cismontane woodland, meadows and seeps; mesic environment. 980-6,565 ft.	This species has the potential to occur in meadows or seeps along bypass and flow-augmented streams within the Project area. Focused surveys were not conducted in these areas, but rather, a habitat-based approach was used. Where focused surveys were conducted, the species was not identified. There is a known population, outside of the Project area, in the vicinity of Mono Hot Springs.
<i>Streptanthus farnsworthianus</i> Farnsworth's jewel-flower	FSW, CNPS 4	May-June	Cismontane woodland. 1,520-4,595 ft.	Not detected.
<i>Tayloria lingulata</i> moss	CNPS 2	N/A	Lower montane coniferous forest; soil substrate. 4,921 ft.	Not present. This species was not identified during special-status plant surveys conducted in 2002. Known in California from only one occurrence on the Sierra National Forest.
<i>Utricularia intermedia</i> flat-leaved bladderwort	CNPS 2	July-August	Bogs and fens, meadows and seeps (mesic), marshes and swamps (lake margins). 3,937-8,858 ft.	This species has the potential to occur in bogs, fens, meadows, or seeps along bypass and flow-augmented streams within the Project area. Focused surveys were not conducted in these areas, but rather, a habitat-based approach was used. Where focused surveys were conducted, the species was not identified.
<i>Veronica cusickii</i> Cusick's speedwell	FSW, CNPS 4	July-August	Alpine boulder and rock field, meadows and seeps, subalpine coniferous forest, upper montane coniferous forest. 7,000-9,845 ft.	Not detected.
<i>Viburnum ellipticum</i> oval-leaved viburnum	CNPS 2	May-June	Chaparral, cismontane woodland, lower montane coniferous forest. 705-4,593 ft.	Not detected.
<i>Wyethia elata</i> Hall's wyethia	FSW, CNPS 4	May-August	Cismontane woodland, lower montane coniferous forest. 3,000-4,500 ft.	Not detected.

Appendix L. Results of Special-Status Plant Species Surveys

Scientific/Common Name	Status	Blooming Period/Fertile	Habitat	Detection During ALP Special-Status Plant Surveys
Special-Status Plant Species (Non Riparian/Aquatic Species) (continued)				
Federal or State Species of Concern or CNPS 1B and 2 and Other Status (continued)				
¹ <i>Collomia rawsoniana</i> flaming trumpet	FSS, FSC, CNPS 1B	July-August	Riparian forest, lower montane coniferous forest on stabilized alluvium in riparian zones, at mid elevations along perennial streams north of the San Joaquin River. 2,500-7,200 ft.	This species has the potential to occur in riparian corridors within the Project area. Focused surveys were not conducted along entire lengths of riparian corridors, but rather, a habitat-based approach was used. Where focused surveys were conducted, the species was not identified. There are known populations within the Project area, along Rock Creek, Ross Creek, and near Mammoth Pool Reservoir. The known site near Mammoth Pool Reservoir is on an unnamed tributary coming off the west side of Mammoth Pool, below Chiquito Creek.
Aquatic Special-Status Plant Species				
¹ <i>Hydrothyria venosa</i> veined water lichen	FSS	N/A	Cold, clear, unpolluted streams in mixed conifer forests. 4,000-8,000 ft.	This species has the potential to occur in cold, clear, unpolluted streams within the Project area. Focused surveys were not conducted along entire streams within the Project area, but rather, a habitat-based approach was used. Where focused surveys were conducted, the species was not identified.

Codes:

FE = federally listed as endangered

FT = federally listed as threatened

FC = federal candidate species

FSC = federal species of concern

CE = California state listed as endangered

CT = California state listed as threatened

CR = California state listed as rare

CNPS = California Native Plant Society

1B = rare, threatened or endangered in California and elsewhere.

2 = rare in California but more common elsewhere.

3 = need more information

4 = plants of limited distribution; a watch list.

FSS = U.S. Forest Service sensitive species in the Sierra National Forest

FSW = U.S. Forest Service watch list species in the Sierra National Forest

Status codes derived from CNDDB (CDFG 2002), CNPS (2002), USFS (2002), USFWS (2002)

¹List of species that were used to determine timing of surveys; formed through agency consultation with Joanna Clines (USFS)

²This population was identified as part of the Portal Project, FERC Project No. 2174

APPENDIX M

Locations of Special-status Plant Populations Occurring within the Study Area

Appendix M. Locations of Special-Status Plant Populations Detected in the Project Area

Figure I.D. Number	Scientific/ Common Name	Status	Location
1-1	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	North and south sides of road 6S25, on the corner just before you get to Mammoth Pool Dam.
1-2	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	Granitic outcrop on the south side of road 6S25, the road that leads to Mammoth Pool Dam.
1-4	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	North bank of Bear Forebay near the diversion dam; seep in granite bedrock.
1-5	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	SCE Florence work camp, west bank of intermittent stream on granitic outcrop.
1-6	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	West shore of Florence Lake, south of the work camp and north of the San Joaquin River.
1-7	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	West shore of Florence Lake.
1-8	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	West shore of Florence Lake.
1-9	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	Granitic outcrop on the west shore of Florence Lake, 50 ft. from the lakeshore, near the South Fork of the San Joaquin River.
1-10	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	Florence Lake on a sandy beach within a granitic outcrop.
1-11	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	Florence Lake in decomposed granite on a granitic outcrop.
1-12	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	East shore of Florence Lake in decomposed granite in depressions on sheet bedrock.
1-13	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	East shore of Florence Lake.
1-14	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	East shore of Florence Lake.
1-15	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	East shore of Florence Lake.
1-16	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	South portion of Florence Lake, east of Florence Rock.
1-17	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	Northeast shore of Florence Lake.
1-18	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	East shore of Florence Lake.
1-19	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	Left bank adjacent to Hooper Creek Diversion Dam.
1-20	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	Dutch Creek/Crater trailhead.
1-21	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	Tombstone Creek pipe trail.
1-22	<i>Cammissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	CNPS 1B, FSC, FSS	North and South Slide Diversion Trail.
2-1	<i>Cammissonia sierrae</i> ssp. <i>sierrae</i> Yosemite evening-primrose	CNPS 4, FSW	West end of Mammoth Pool Campground; southwest slope.
2-4	<i>Cammissonia sierrae</i> ssp. <i>sierrae</i> Yosemite evening-primrose	CNPS 4, FSW	On the west side of road 6S25, the road that leads to Mammoth Pool Dam, at the end of the road past Mammoth Pool Dam.
2-5	<i>Cammissonia sierrae</i> ssp. <i>sierrae</i> Yosemite evening-primrose	CNPS 4, FSW	North side of Hwy 168 at the hairpin turn north of Stevenson Creek bridge.
2-6	<i>Cammissonia sierrae</i> ssp. <i>sierrae</i> Yosemite evening-primrose	CNPS 4, FSW	East of Shakeflat Creek, 5 feet north of the trail.
3-1	<i>Epilobium howellii</i> subalpine fireweed	CNPS 1B, FSS	Huntington lakeshore, south side of hiking trail between Camp Olijato and Gold Arrow Camp, 6 feet from the water's edge in a wet meadow.

Appendix M. Locations of Special-Status Plant Populations Detected in the Project Area

Figure I.D. Number	Scientific/ Common Name	Status	Location
3-2	<i>Epilobium howellii</i> ² subalpine fireweed	CNPS 1B, FSS	East side of Portal Powerhouse Distribution Line in a wet meadow.
3-3	<i>Epilobium howellii</i> subalpine fireweed	CNPS 1B, FSS	Kokanee work camp, on the right side after entering the gate, east side of a wet meadow.
4-1	<i>Hulsea brevifolia</i> short-leaved hulsea	CNPS 1B, FSS	Both sides of the road leading into Balsam Sno-park, northwest of the locked gate.
4-2	<i>Hulsea brevifolia</i> short-leaved hulsea	CNPS 1B, FSS	Both sides of the road into Balsam Sno-park, 60 feet east of the fork in road.
4-3	<i>Hulsea brevifolia</i> short-leaved hulsea	CNPS 1B, FSS	North/northwest of Balsam Forebay Dam in the middle of the dirt road parallel to the Eastwood transmission lines.
4-4	<i>Hulsea brevifolia</i> short-leaved hulsea	CNPS 1B, FSS	75 feet west of the Eastwood transmission lines.
4-5	<i>Hulsea brevifolia</i> short-leaved hulsea	CNPS 1B, FSS	East edge of the dirt road that goes from Balsam Forebay to the Big Creek overlook, along transmission lines.
4-6	<i>Hulsea brevifolia</i> short-leaved hulsea		Middle and west side of a dirt road near the Eastwood Transmission Lines.
4-7	<i>Hulsea brevifolia</i> short-leaved hulsea	CNPS 1B, FSS	Both sides of the Balsam Meadow hiking trail approximately 800 feet northwest of the parking lot.
5-1	<i>Lewisia disepala</i> Yosemite lewisia	CNPS 1B, FSS	Road 6S25, the road that leads to Mammoth Pool Dam, on a granitic dome overlooking Windy Point boat launch, 60 feet east of a fenced compound.
6-1	<i>Mimulus inconspicuus</i> small-flowered monkeyflower	CNPS 4, FSW	50 feet up an old logging skid road off of the dirt access road to Shaver Lake Dam.
7-1	<i>Mimulus laciniatus</i> cut-leaved monkeyflower	CNPS 4, FSW	North bank of Stevenson Creek behind the gaging station; seep in a granitic outcrop.
7-2	<i>Mimulus laciniatus</i> cut-leaved monkeyflower	CNPS 4, FSW	1,000 feet east of the Sierra Marina on the south side of the road to Eastwood Powerhouse; seep in a granitic outcrop.
7-5	<i>Mimulus laciniatus</i> cut-leaved monkeyflower	CNPS 4, FSW	Bottom of boulders adjacent to a metal railing leading to the gaging station on North Fork Stevenson Creek.
7-6	<i>Mimulus laciniatus</i> cut-leaved monkeyflower	CNPS 4, FSW	200 feet south of the road to the Eastwood Powerhouse, 750 feet west of a wooden bridge; south facing granitic seep.
7-7	<i>Mimulus laciniatus</i> cut-leaved monkeyflower	CNPS 4, FSW	50 feet north of the road to Eastwood Powerhouse, 1000 feet west of the wooden bridge; granitic outcrop.
7-8	<i>Mimulus laciniatus</i> cut-leaved monkeyflower	CNPS 4, FSW	West side of Dorabelle campground, 75 feet from the campground road; granitic outcrop seep.
7-9	<i>Mimulus laciniatus</i> cut-leaved monkeyflower	CNPS 4, FSW	West side of Dorabelle campground; east-facing slope in a granitic outcrop seep.
7-10	<i>Mimulus laciniatus</i> cut-leaved monkeyflower	CNPS 4, FSW	75 feet southwest of the Eastwood Transmission Lines, 100 feet downslope from the access road; granitic outcrop.
7-11	<i>Mimulus laciniatus</i> cut-leaved monkeyflower	CNPS 4, FSW	Dutch Lake trailhead at Florence Lake.
7-14	<i>Mimulus laciniatus</i> cut-leaved monkeyflower	CNPS 4, FSW	East shore of Florence Lake in granitic seeps.
7-17	<i>Mimulus laciniatus</i> cut-leaved monkeyflower	CNPS 4, FSW	Hooper Creek Diversion Dam, left bank in seeps in granite bedrock.
7-18	<i>Mimulus laciniatus</i> cut-leaved monkeyflower	CNPS 4, FSW	South Slide Creek in decomposed granite in cracks and crevices.
7-19	<i>Mimulus laciniatus</i> cut-leaved monkeyflower	CNPS 4, FSW	North and South Slide Creeks in cracks in granite.
7-20	<i>Mimulus laciniatus</i> cut-leaved monkeyflower	CNPS 4, FSW	Hooper Gaging Station; cracks and crevices in granite bedrock.

¹This table goes directly from *Camissonia sierrae* ssp. *alticola* (1-2) to *Camissonia sierrae* ssp. *alticola* (1-4) because there was another site