

Initial Study/Mitigated Negative Declaration

El Dorado Irrigation District Vegetation Management Project

Prepared for:



El Dorado Irrigation District

June 2019

Prepared by:

AECOM

Initial Study/Mitigated Negative Declaration

**El Dorado Irrigation District
Vegetation Management Project**

Prepared for:

El Dorado Irrigation District
2890 Mosquito Road
Placerville, CA 95667

Contact:

Doug Venable
Environmental Review Analyst
530/ 642-4187

Prepared by:

AECOM
2020 L Street, Suite 400
Sacramento, CA 95811

Contact:

Ken Koch
Project Manager
916/ 414-5853

June 2019

Table of Contents

1	INTRODUCTION	1-1
1.1	Background	1-1
1.2	Purpose of the Initial Study	1-1
1.3	Summary of Findings	1-2
1.4	Document Organization	1-3
2	PROJECT DESCRIPTION.....	2-1
2.1	Background	2-1
2.2	Project Location and Setting	2-2
2.3	Weber Reservoir.....	2-5
2.4	Sly Park Recreation Area (SPRA).....	2-5
2.5	Camp 5 Maintenance Yard/Flume 46.....	2-5
2.6	Proposed Vegetation Management Strategy	2-6
2.7	Project Schedule	2-11
3	INITIAL STUDY CHECKLIST	3-1
3.1	Aesthetics	3-5
3.2	Agriculture and Forestry Resources	3-8
3.3	Air Quality.....	3-11
3.4	Biological Resources	3-16
3.5	Cultural Resources	3-50
3.6	Energy	3-60
3.7	Geology and Soils	3-61
3.8	Greenhouse Gas Emissions	3-64
3.9	Hazards and Hazardous Materials	3-68
3.10	Hydrology and Water Quality	3-71
3.11	Land Use and Planning.....	3-74
3.12	Mineral Resources.....	3-76
3.13	Noise.....	3-77
3.14	Population and Housing	3-79
3.15	Public Services	3-80
3.16	Recreation.....	3-82
3.17	Transportation	3-83
3.18	Tribal Cultural Resources.....	3-85
3.19	Utilities and Service Systems	3-87
3.20	Wildfire	3-89
3.21	Mandatory Findings of Significance	3-91
4	REFERENCES	4-1

List of Tables

Table 3.4-1	Special-status Plant Species Identified as Occurring in the Project Region and Discussion of their Potential to Occur in the Biological Study Area - El Dorado Irrigation District CalFire Vegetation Treatment at Camp 5, Flume 46, Sly Park Recreation Area (SPRA), and Weber Reservoir - El Dorado County, California.....	3-27
Table 3.4-2	Special-Status Animal Species Known or with Potential to Occur in the Project Region and their Potential for Occurrence on the Project Site	3-39
Table 3.5-1	Previous Cultural Resources Inventories (Flume 46).....	3-53
Table 3.5-2	Previously Recorded Cultural Resources (Ditch Camp 5).....	3-54
Table 3.5-3	Previously Recorded Cultural Resources (Sly Park Recreation Area).....	3-55
Table 3.5-4	Previously Recorded Cultural Resources Weber Reservoir	3-57
Table 3.8-1	Net GHG Benefit of Proposed Project	3-66

List of Figures

Figure 2-1	Regional Location	2-3
Figure 2-2	Example of Hand Thinning	2-7
Figure 2-3	Examples of Pre and Post Mastication Treatment.....	2-8
Figure 2-4	Weber Reservoir.....	2-13
Figure 2-5	Sly Park Recreation Area	2-15
Figure 2-6	Camp 5 Maintenance Yard/Flume 46	2-17
Figure 3.4-1	Weber Reservoir Habitat Map.....	3-21
Figure 3.4-2	Sly Park Habitat Map	3-22
Figure 3.4-3	Camp 5 Habitat Map	3-23
Figure 3.4-4	Flume 46 Habitat Map.....	3-24
Figure 3.4-5	Special Status Plant and Wildlife Species Records within 5 Miles of Project Sites	3-35

List of Appendices

Appendix A. Air Emissions-CalEEMod Output Models
Appendix B. Federal Biological Resources Assessment
Appendix C. Cultural Records Memo
Appendix D. Mitigation Monitoring and Reporting Program

Acronyms and Other Abbreviations

°C	degrees Celsius
°F	degrees Fahrenheit
μ	micron(s)
μg	microgram(s)
μg/L	micrograms per liter
AB	Assembly Bill
AQCR	air quality control region
ARB	California Air Resources Board
B.P.	Before Present
ca.	circa
CAA	Clean Air Act
CAAQS	California ambient air quality standards
CAL FIRE	California Department of Forestry and Fire Protection
Caltrans	California Department of Transportation
CDFW	California Department of Fish and Wildlife
CENSARE	Central Sierra Research
CEQA	California Environmental Quality Act
CNPS	California Native Plant Society
CO	carbon monoxide
dB	decibel(s)
dBA	A-weighted decibel(s)
DNL	day-night noise level
DWR	California Department of Water Resources
EDCAPCD	El Dorado County Air Pollution Control District
EIR	environmental impact report
EIS	environmental impact statement
ENF	Eldorado National Forest
EPA	U.S. Environmental Protection Agency
FERC	Federal Energy Regulatory Commission
FR	Federal Register
GHG	greenhouse gas
GPS	global positioning system
IPCC	Intergovernmental Panel on Climate Change
IS	initial study
kW	kilowatt(s)
L _{dn}	day-night average noise level
L _{eq}	energy-equivalent noise level
LTAB	Lake Tahoe Air Basin
MND	mitigated negative declaration

msl	mean sea level
MTCO _{2e}	metric tons of carbon dioxide equivalent
NAAQS	national ambient air quality standards
NAHC	Native American Heritage Commission
NOAA	National Oceanic and Atmospheric Administration
NO _x	oxides of nitrogen
NWS	National Weather Service
PAC	Protected Activity Center
PG&E	Pacific Gas and Electric Company
PM ₁₀	particulate matter with aerodynamic diameter less than 10 micrometers
PM _{2.5}	particulate matter with aerodynamic diameter less than 2.5 micrometers
PRC	California Public Resources Code
Project	EID Vegetation Management Project
ROG	Reactive Organic Gases
RWQCB	regional water quality control board
SEL	sound exposure level
SR	State Route
SR 50	State Route 50
SWRCB	State Water Resources Control Board
TAF	thousand acre-feet
TNF	Tahoe National Forest
U.S. 50	U.S. Highway 50
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
VOC	volatile organic compound
WDR	waste discharge requirement



El Dorado Irrigation District

NOTICE OF INTENT and NOTICE OF PUBLIC HEARING TO ADOPT A MITIGATED NEGATIVE DECLARATION

(Pursuant to CEQA Section 21092 and CEQA Guidelines Section 15072) **EL DORADO IRRIGATION DISTRICT VEGETATION MANAGEMENT PROJECT**

The El Dorado Irrigation District (EID) proposes to adopt a Mitigated Negative Declaration (MND) pursuant to the California Environmental Quality Act (Section 15000 et seq., Title 14, California Code of Regulations) for the El Dorado Irrigation District Vegetation Management Project (proposed project). The proposed project involves implementing vegetation management activities on EID lands to return the areas to a more managed, fire resistant condition and to protect local communities, EID's critical infrastructure, and water quality from the effects of catastrophic wildfire.

EID proposes to implement vegetation management projects at four facilities to reduce the risk of wildfire: Weber Reservoir, Sly Park Recreation Area, Camp 5 Maintenance Yard, and Flume 46 on the El Dorado Canal. Vegetation management would be accomplished through a variety of treatments and prescriptions such as mechanical and hand treatments, removal of fuel ladders, and tree removal and pruning to inhibit vertical fire spread and the potential for crown fire. The work is being completed with funding provided by California Department of Forestry and Fire Protection (CAL FIRE) under the California Climate Investments Fire Prevention Grant Program. The project sites are not identified on the lists specified in Government Code section 65962.5. EID is the lead agency under the California Environmental Quality Act (CEQA) for the proposed project and has directed the preparation of an Initial Study (IS) on the proposed project in accordance with the requirements of CEQA, the State CEQA Guidelines, and EID's guidelines. The IS describes the proposed project and assesses the proposed project's potentially significant adverse impacts on the physical environment. It concludes that the proposed project's potentially significant or significant adverse effects on the environment could be mitigated to less-than-significant levels; therefore, a proposed Mitigated Negative Declaration (MND) has been prepared.

Agencies and members of the public are invited to comment on the proposed IS/MND. The comment period is from June 10, 2019 to July 10, 2019. The proposed IS/MND can be reviewed at EID's Customer Service Building, 2890 Mosquito Road, Placerville, CA 95667 or on the EID web site at www.eid.org/ceqa. Comments must be received by 5:00 p.m. on July 10, 2019. Comments can be sent to Doug Venable, Environmental Review Analyst, El Dorado Irrigation District, at the address above or by email at dvenable@eid.org. EID will hold a public hearing to consider the IS/MND on July 22, 2019 at 9:00 a.m. during a regularly scheduled meeting of the EID Board of Directors. The hearing will be in the EID Customer Service Building.

In accordance with the Americans with Disabilities Act (ADA) and California law, it is the policy of the El Dorado Irrigation District to offer its public programs, services and meetings in a manner that is readily accessible to everyone, including individuals with disabilities. If you are a person with a disability and require information or materials in an appropriate alternative format; or if you require any other accommodation for this meeting, please contact the EID ADA coordinator at 530.642.4045 or email at adacoordinator@eid.org at least 72 hours prior to the meeting. Advance notification within this guideline will enable the District to make reasonable accommodations to ensure accessibility.

This page intentionally left blank

1 INTRODUCTION

1.1 BACKGROUND

The El Dorado Irrigation District (EID) proposes to implement vegetation management projects at four of its facilities to reduce the risk of wildfire:

1. Weber Reservoir
2. Sly Park Recreation Area (SPRA)
3. Camp 5 Maintenance Yard (Camp 5)
4. Flume 46 on the El Dorado Canal (Flume 46)

Objectives of the proposed project include:

- ▶ Prevent wildfires and protect disadvantaged communities, infrastructure, and forest resources within the Wildland-Urban Interface (WUI);
- ▶ Implement vegetation prescriptions to reduce fire hazard, improve tree growth, and increase forest resiliency;
- ▶ Implement vegetation prescriptions to reduce the rate of spread, duration and intensity, and fuel ignition into the crowns of conifer forests;
- ▶ Retain and enhance ecosystem processes to create a fire resilient landscape that promotes long-term storage of carbon in forest trees and soils, which is compatible with the fuel hazard reduction prescriptions; and
- ▶ Support a collaborative approach to create fire resilient and fire-adapted communities in the region

Vegetation management would be accomplished through a variety of vegetation management prescriptions such as mechanical and hand treatments, removal of fuel ladders, and tree removal and pruning to inhibit vertical fire spread and the potential for crown fire. The work is being completed with funding provided by California Department of Forestry and Fire Protection (CAL FIRE) under the California Climate Investments (CCI) Fire Prevention Grant Program. The proposed project is described in detail in Chapter 2.0 of this IS/MND.

1.2 PURPOSE OF THE INITIAL STUDY

This document is an initial study (IS), prepared in accordance with CEQA (Public Resources Code [PRC], Section 21000 et seq.) and the CEQA Guidelines (Title 14, Section 15000 et seq. of the California Code of Regulations). The purpose of this IS is to (1) determine whether project implementation would result in potentially significant or significant effects on the environment; and (2) incorporate environmental commitments into the project design, and propose feasible mitigation measures, as necessary, to eliminate the project's potentially significant or significant project effects, or reduce them to a less than significant level.

An IS presents environmental analysis and substantial evidence in support of its conclusions regarding the significance of environmental impacts. Substantial evidence may include expert opinion based on facts, technical studies, or reasonable assumptions based on facts. An IS is neither intended nor required to include the level of detail provided in an Environmental Impact Report (EIR).

CEQA requires that State and local government agencies consider the environmental consequences of projects that they propose to carry out or over which they have discretionary authority, before implementing or approving those projects. The public agency that has the principal responsibility for carrying out or approving a project is the lead agency for CEQA compliance (CEQA Guidelines Section 15367). EID has principal responsibility for carrying out the proposed project, and EID is the CEQA lead agency for this IS.

EID has prepared this IS to evaluate the potential environmental effects of the proposed project, and has incorporated mitigation measures to reduce or eliminate potentially significant project-related impacts. Therefore, an MND has been prepared for this project.

1.3 SUMMARY OF FINDINGS

Chapter 3 of this document contains the analysis and discussion of potential environmental impacts of the proposed project. The analysis determined that the proposed project would result in no impacts related to:

- ▶ Land Use and Planning
- ▶ Mineral Resources
- ▶ Population and Housing
- ▶ Public Services
- ▶ Recreation
- ▶ Utilities and Services

Impacts of the proposed project were determined to be less than significant for the following topics:

- ▶ Air Quality
- ▶ Aesthetics
- ▶ Agriculture and Forestry
- ▶ Energy
- ▶ Geology and Soils
- ▶ Greenhouse Gas Emissions
- ▶ Hazards
- ▶ Hydrology and Water Quality
- ▶ Noise
- ▶ Transportation
- ▶ Wildfire

The proposed project would result in less than significant impacts *with* mitigation on the following issue areas:

- ▶ Biology
- ▶ Cultural Resources
- ▶ Tribal Cultural Resources

1.4 DOCUMENT ORGANIZATION

The purpose of this IS/MND is to evaluate the potential environmental impacts of the proposed project. This document is divided into the following chapters:

- ▶ **Notice of Intent to Consider Adoption of a Proposed MND and Notice of Public Hearing.** The notice of intent to consider adoption of a proposed MND provides notice to responsible and trustee agencies, interested parties, and organizations of the availability of this IS and notice of the public hearing.
- ▶ **Mitigated Negative Declaration.** The MND, which precedes the IS analysis, summarizes the environmental conclusions and identifies mitigation measures that would be implemented in conjunction with the proposed project.
- ▶ **Chapter 1, “Introduction.”** This chapter briefly summarizes the proposed project and describes the purpose of the IS/MND, summarizes findings, and describes the organization of this IS/MND.
- ▶ **Chapter 2.0, “Project Description,”** describes the proposed project in detail.
- ▶ **Chapter 3.0, “Environmental Checklist,”** describes the environmental setting for each environmental subject area; evaluates a range of impacts classified as “no impact,” “less than significant,” “less than significant with mitigation incorporated,” or “potentially significant” in response to the environmental checklist; and provides an environmental determination for the proposed project.
- ▶ **Chapter 4.0, “References,”** provides a bibliography of sources cited in the IS/MND.
- ▶ **Chapter 5.0, “List of Preparers,”** identifies staff members and consultants responsible for preparation of this document.

This page intentionally left blank

2 PROJECT DESCRIPTION

2.1 BACKGROUND

Fire is a natural part of the ecosystem. California's combination of climate, terrain, and vegetation results in a combustible natural fire environment. Over time as population grew in the state, exposure of structures along the urban-wildland interface (WUI)¹ increased and modern fire suppression practices were expanded to address this risk permanently altering the fire regime producing a forest of younger, denser stands of trees with a greater flammability than old growth; increasing the risk of catastrophic wildfire.

Recently, the California Legislature passed Assembly Bill (AB) 109 (the budget act of 2017), which created a climate change research program within the Strategic Growth Council (SGC). The legislation allocated \$11 million in greenhouse gas reduction fund revenues from the Cap and Trade program to the SGC to develop a program to support "research on reducing carbon emissions, including clean energy, adaptation, and resiliency, with an emphasis on California." California Climate Investments (CCI) projects include affordable housing, renewable energy, public transportation, zero-emission vehicles, environmental restoration, sustainable agriculture, recycling, and fuel reduction. Hazardous fuels reduction projects funded under CCI must fall into one of the following treatment objectives:

- ▶ Vegetation clearance in critical locations to reduce wildfire intensity and rate of spread.
- ▶ Creation or maintenance of fuel breaks in strategic locations, as identified in CAL FIRE Unit Fire Plans, a Community Wildfire Protection Plan, or similar strategic planning document.
- ▶ Removal of ladder fuels to reduce the risk of crown fires.
- ▶ Creation of community-level fire prevention programs, such as community chipping days, roadside chipping, and green waste bin programs.
- ▶ Selective tree removal (thinning) to improve forest health to withstand wildfire.
- ▶ Modification of vegetation adjacent to roads to provide for safer ingress and egress of evacuating residents and responding emergency personnel.
- ▶ Reduction of fuel loading around critical firefighting infrastructure, including, but not limited to, fire hydrants, water drafting locations, and staging areas.
- ▶ Purchase of fuel modification equipment not to exceed \$100,000.
- ▶ Removal of dead and dying trees that pose a threat to public health and safety and meet the following characteristics:
 - Dead and dying trees must be greater than 10" in diameter and 20 feet in height;
 - Dead and dying trees reasonably accessible by equipment/machinery;

¹ WUI is a term used to describe the interface of the urban and natural fuel environments in which fire can cross readily between structural ("urban") fuels and vegetation ("wildland") fuels.

- Dead and dying trees within 300 feet of permanent structures that pose a structural threat to the residence. (this does not include movable or temporary sheds, outbuildings, or carports).
- Dead and dying trees within 300 feet of serviceable roadways that pose a structural threat to roadways; or public or private infrastructure.
- Removal of dead or dying trees from existing fuel breaks; or from Tier 2 high hazard zones.

Vegetation management proposed by the El Dorado Irrigation District (District or EID) is designed to protect critical facilities located in a very high fire hazard severity zone² while serving to reduce fuel loads and create defensible space for neighboring communities located in the WUI.

The District is a public water agency located on the western slope of the Sierra Nevada mountain range in El Dorado County and serves a population of more than 100,000 people through more than 38,000 active water meter connections. The District's water system contains more than 1,250 miles of pipe, 27 miles of ditches, five water treatment plants (WTPs), and 37 storage tanks and/or reservoirs.

2.2 PROJECT LOCATION AND SETTING

Figure 2-1 depicts the location of District facilities that are subject to project related actions. The project area covers 570 acres of District-owned property spanning four District facilities located in El Dorado County, California:

1. Weber Reservoir
2. Sly Park Recreation Area (SPRA)
3. Camp 5 Maintenance Yard (Camp 5)
4. Flume 46 on the El Dorado Canal (Flume 46)

El Dorado County contains a patchwork of public and private forest lands dispersed on the western slope of the Sierra Nevada. More than 50 percent of the county is located within the Eldorado National Forest or the Tahoe National Forest. Population centers nearest the project areas include the unincorporated community of Pollock Pines and the City of Placerville. U.S. Highway 50 provides regional access to these communities and the project areas.

The District lies within two major watersheds: the South Fork American River in the north and the North Fork Consumes River in the south. The District is hydrologically split between these two drainage systems by the Placerville Ridge and Highway 50.

Climate in the District's service area is characterized by sunshine in the summer, moderate to heavy precipitation in the winter, and wide temperature ranges. Strong flows of marine air from the Pacific Ocean result in heavy precipitation in the winter. Precipitation in the summer is generally limited to a few scattered thunderstorms over the summer months. The historical annual average precipitation is approximately 38 inches. Temperatures throughout the service area range from warm in the summer to cold in the winter, with average monthly temperatures of 75 degrees Fahrenheit (°F) in July and 42°F in January (Western Regional Climate Center 2019).

² Fire Hazard Severity is based on two criteria: probability of burning and expected fire behavior. The factors considered in determining hazard are: 1) how often an area will burn; and 2) when it does burn, what characteristics might lead to buildings being ignited?

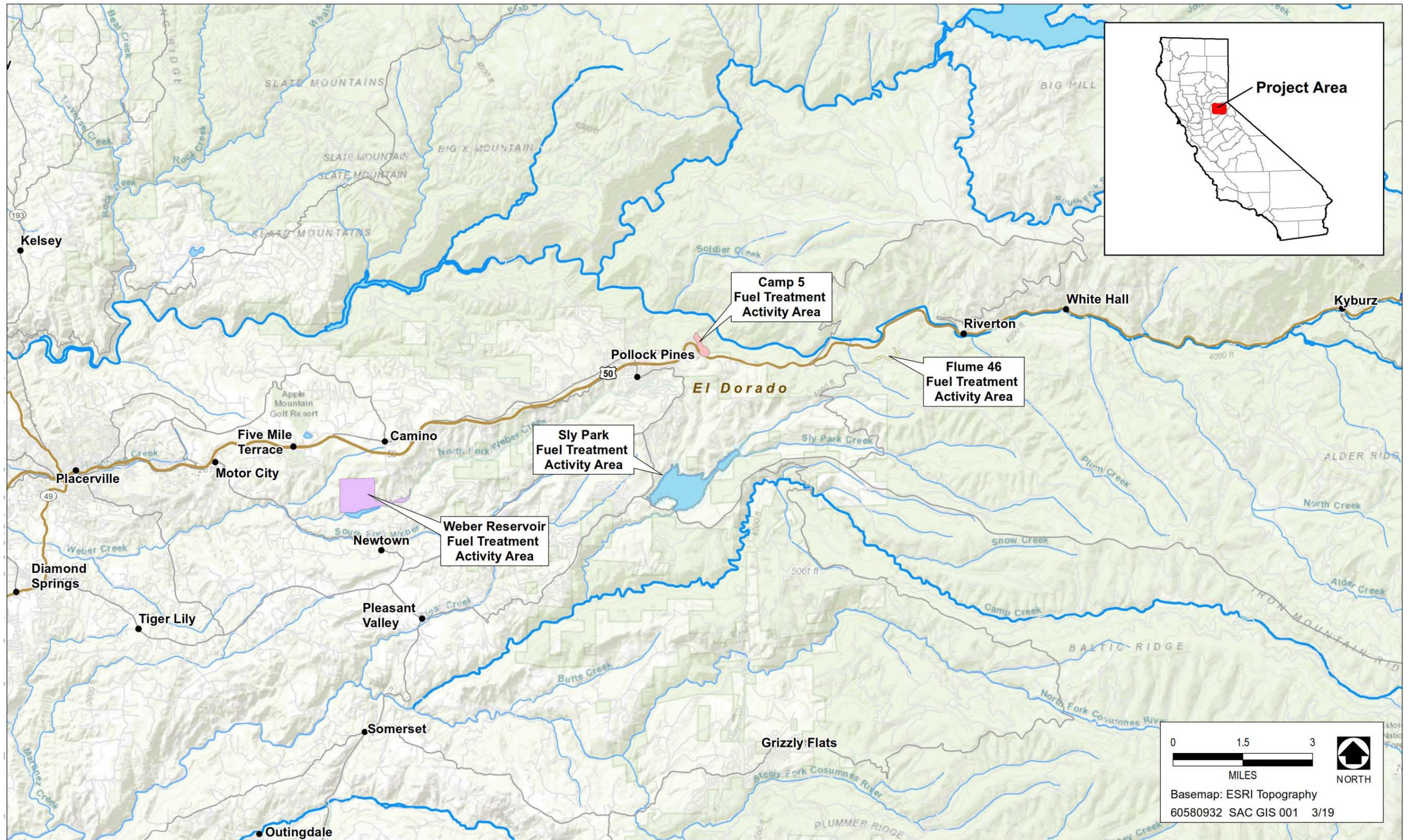


Figure 2-1. Regional Location

This page intentionally left blank

2.3 WEBER RESERVOIR

As shown in Figure 2-1, Weber Dam and Reservoir is sited along Weber Creek in the Camino community region of El Dorado County. It is located within Township 10 North, Range 12 East, Sections 17, 18, Mount Diablo Base & Meridian within the U.S. Geological Survey (USGS) 7.5-minute Camino Quadrangle. The population centers nearest Weber Reservoir are the rural communities of Camino and Pollock Pines.

Vegetation in Weber Canyon is characterized by the transition from oak grass woodland into the lower montane conifer forest types. The river drainage, ridgelines, and canyon terrain are oriented in an east-west alignment that combined with prevailing wind direction creates a likely fire path extending directly into the neighborhoods of Camino and Pollock Pines.

The Weber Reservoir is a critical piece of EID infrastructure. Water released from Weber Reservoir contributes to EID's overall water supply, and provides habitat for fish and wildlife and other natural resources downstream of the dam.

2.4 SLY PARK RECREATION AREA (SPRA)

The Sly Park Recreation Area (SPRA) site is located in the central part of El Dorado County 17 miles east of Placerville and 4 miles south of Pollock Pines. It is located within Township 10 North, Range 13 East, Sections 3, 8, 9, 10, 16-18, Mount Diablo Base & Meridian within the USGS 7.5-minute Sly Park Quadrangle (Figure 2-1).

Sly Park Recreation Area is popular and heavily used for recreation from May through early September by local residents and visitors from outside of the area. Recreational use is more limited at other times of the year, and visitors during these periods consist primarily of local residents. The population center nearest to the park is the unincorporated community of Pollock Pines. Pollock Pines is rural community of approximately 5,000 residents dispersed throughout 5.8 square miles of forestland. Surrounding properties consist of moderately dense residential development along the northwest and west boundaries; Sierra Pacific Industries and U.S. Forest Service manage timberlands on the remainder of the surrounding properties.

SPRA lies within the approximately 13,000 acre Sly Park Creek watershed. Sly Park Creek and Hazel Creek are the two primary watercourses that are tributaries to Jenkinson Lake. Jenkinson Lake serves as the primary reservoir for drinking and irrigation water to thousands of residents in El Dorado County and provides recreational opportunities to visitors. Other assets in the SPRA include twelve campgrounds, trails, office buildings, parking areas, roadways and restrooms.

2.5 CAMP 5 MAINTENANCE YARD/FLUME 46

The Camp 5 Maintenance Yard/Flume 46 sites are located in the central part of El Dorado County 17 miles east of Placerville and 5 miles east of Pollock Pines. Camp 5 is located within Township 11 North, Range 13 East, Section 29 of the Mount Diablo Base & Meridian within the USGS 7.5-minute Pollock Pines Quadrangle (Figure 2-1). Flume 46 is located within Township 11 North, Range 13 East, Section 36 of the Mount Diablo Base & Meridian within the USGS 7.5-minute Riverton Quadrangle (Figure 2-1).

Camp 5 is the site of a Federal Energy Regulatory Commission (FERC) El Dorado Hydroelectric Project No. 184 (Project No. 184) maintenance facility consisting of 22 buildings and structures on the north side of Highway 50

between Pollock Pines and Fresh Pond. The site also contains the headquarters for Project No. 184 which is located on a hillside above the El Dorado Canal. Flume 46 is a ¾ mile long wooden flume representing a key segment of the open water El Dorado Canal system. Camp 5 is surrounded by residential neighborhoods with 3,000 habitable structures dispersed throughout the population center of Pollock Pines and Fresh Pond.

Critical infrastructure includes water conveyance facilities crucial to the operation of Project No. 184 while Flume 46 contains a spillway (Spillway 27), which is used to release water in the event of an emergency or breach in the canal and to dewater the canal for annual maintenance. The Camp 5 site also contains power lines that transect the project area that supply electricity to operate drinking water booster pumps. A multi-agency radio facility (Union Hill) also near to the Camp 5 project site provides emergency communications for Cal Fire, El Dorado County Fire Department, El Dorado Co. Sherriff Dept., CHP, Cal Trans, County DOT, and several cellular carriers.

The Camp 5 complex and Flume 46 are key components of the El Dorado Canal, the primary water conveyance system used to transport water for consumption, storage, and hydroelectric power to El Dorado County.

2.6 PROPOSED VEGETATION MANAGEMENT STRATEGY

2.6.1 OBJECTIVES

The overall goals of this project are to return the project areas to a more managed, fire resistant condition and to protect local communities and EID's critical infrastructure and water quality from the effects of catastrophic wildfire.

Project objectives vary depending on the circumstances at each site but include:

- ▶ Prevent wildfires and protect disadvantaged communities, infrastructure, and forest resources within the WUI;
- ▶ Implement vegetation prescriptions to reduce fire hazard, improve tree growth, and increase forest resiliency;
- ▶ Implement vegetation prescriptions to reduce the rate of spread, duration and intensity, and fuel ignition into the crowns of conifer forests;
- ▶ Retain and enhance ecosystem processes to create a fire resilient landscape that promotes long-term storage of carbon in forest trees and soils, which is compatible with the fuel hazard reduction prescriptions; and
- ▶ Support a collaborative approach to create fire resilient and fire-adapted communities in the region

2.6.2 PROPOSED ACTIVITIES

The vegetation management strategy to be implemented requires a combination of fuel reduction methods depending on the location, facility access, slope, and reservoir/riparian zone proximity. Based on these considerations, EID in consultation with a Registered Professional Forester visited each site and developed the approach to reducing fuel loads. Strategies to be implemented include: hand-cutting and piling, hand-thinning and chipping, lop and scatter, and mechanical mastication. All project activities will occur in a manner consistent with the California Forest Practice Rules. Each proposed activity is described below:

- ▶ **Thinning** means reducing the number of stems of small tree species to a predetermined spacing to improve growth and/or to reduce fuel loads. Mechanical release involves removal of non-commercial tree species, shrubs/brush or grasses that are competing with previously planted or existing commercial tree species (Figure 2-2).
- ▶ **Pruning/Removal of Ladder Fuel** is the cutting of lower branches of trees to reduce vertical continuity of fuels. Pruning may be conducted in conjunction with thinning or release. Pruning all branches within ten feet of the ground, combined with thinning and the removal of flammable shrubs and ladder fuels, is recommended to reduce the likelihood that a ground fire burning through the stand would move up into the tree crown.
- ▶ **Mastication** is a fuel reduction treatment method used in forestry management to reduce fuel loadings by returning the forest to natural conditions. In terms of vegetation management, masticating refers to mechanical grinding or mulching of undergrowth in the forest to smaller chunks (Figure 2-3).
- ▶ **Slash disposal.** Slash is the vegetation removed by the fuel reduction process which must be handled either through direct removal or chipped and broadcast to stabilize soils or slopes. Slash disposal can be achieved by mastication, chipping, or piling and burning. All biomass will be chipped and distributed on the individual sites to stabilize soils. No off-site disposal of woody biomass will be conducted.



Source: Stock Photo 2019

Figure 2-2. Example of Hand Thinning

Implementation of EID's vegetation management program will reduce future fire intensity and severity by reducing surface fuels, increasing the height to tree canopy, decreasing crown density, and retaining large fire-resistant trees. Specific actions proposed for each project area are described below:



Source: Stock Photo 2019

Figure 2-3. Examples of Pre and Post Mastication Treatment

2.6.3 WEBER RESERVOIR VEGETATION MANAGEMENT PROJECT

The vegetation management project for Weber Reservoir identifies treatment on 370 acres along the north side of the reservoir to be conducted starting in the fall of 2019 and continuing through the fall of 2021 (Figure 2-4). The vegetation management project proposes to rely on a combination of the following actions:

- ▶ **Hand-cutting and piling** along the north side of Weber Creek and reservoir will be accomplished by a hand crew with chainsaws. The contractor will be required to cut all live and dead vegetation less than 10- inches diameter at breast height (dbh) a minimum 90% of the shrubs will be treated. All dead or dying trees greater than 10-inches diameter and greater than 60’ tall will be felled and either hand piled, masticated, or left in place for slope stabilization. Chipping will be implemented where feasible, otherwise materials will be dispersed by lopping and scattering or small hand piles will be disposed of through burning.
- ▶ **Mechanical mastication** will be designated in areas less than 45% slope where accessibility from existing roads is possible. Brush and trees less than 10-inches dbh will be mechanically masticated. Steep inclinations over 45% will not be treated by mastication. A combination of hand cutting, piling, or lopping and scattering small trees less than 10-inches dbh will be required work crews can adequately and safely navigate the terrain.

EQUIPMENT

Equipment used at this site will include excavator fitted with a mechanical masticator, chipper, transport van, two service trucks, chainsaws, pole saws, and various hand tools.

ACCESS AND STAGING

The work crew of approximately 12 persons would arrive by van with equipment and supplies delivered by heavy truck. The crew would camp at a designated location using tents to bunk at night with sanitization facilities provided by portable toilets, and mobile wash stations/showers that would be trucked to each location. Alternatively, crews would lodge at a local motel in Pollock Pines or Placerville and commute to the project site daily. Work activities would take place Monday through Friday during the hours of 7:00 am to 7:00 pm, or between 8 a.m. and 5 p.m. on weekends. Activities will occur as weather and site conditions permit over the grant timeline ending in the fall of 2021.

The crews would access the work area at two points. The south access point: is taken from an existing unpaved road that runs parallel to Weber Reservoir. Work crews will also take access from private property to the north where the landowner has granted access and staging of equipment on an existing unpaved road way and turnout area.

2.6.4 SLY PARK RECREATION AREA VEGETATION MANAGEMENT PROJECT

Recreational uses in the Sly Park Recreation Area are operated and managed under a Master Plan that incorporates a maintenance program to manage vegetation throughout the park. The Management Plan contains the strategy for ongoing fuel and controlled burns in the areas of the SPRA that do not contain physical structures. Managing vegetation in areas with improved facilities involves use of hand held equipment to eliminate vegetation reduce ladder fuels, remove dead vegetation and debris, providing adequate clearance around fire rings, and similar activities intended to reduce the risk of wildfire.

The park contains approximately 914 acres of timberland and is subject to commercial harvesting operations consistent with the objectives of the master plan along with a firewood harvest program to salvage timber that otherwise is not suitable for commercial sale. All activities are conducted under the implementation program of the SPRA Master Plan that outlines the policies for long term operation and maintenance of the property including vegetation management programs discussed later in this section.

Consistent with ongoing efforts, EID's vegetation management project for Sly Park Recreation Area identifies treatment of approximately 118.5 acres that will take place starting in the fall of 2019 and continuing through the fall of 2021 (Figure 2-5). The vegetation management project proposes to rely on hand tools to minimize the potential for soil compaction, erosion, and dust that could reduce water quality of the lake. Activities proposed at SPRA include:

- ▶ **Hand-thinning** or chipping will be accomplished by a hand crew with chainsaws. The contractor will be required to cut material up to 12-inches diameter at breast height (dbh) with 20'x20' spacing between the boles of the remaining trees. A minimum 90% of the shrubs will be treated. Chipping will be implemented where feasible, otherwise materials will be dispersed by lopping and scattering or small hand piles will be disposed of through burning.

- ▶ **Pruning:** The hand crew will cut ingrowth around trees and prune residual trees up to 12' while retaining 33% minimum crown as well as pruning to 10' off the high side. Limbed material will be treated by chipping wherever possible.

Hand- crews will conduct thinning and pruning around the entire shoreline of Jenkinson Lake and along three tributaries to create a 100 -foot buffer from the high water mark around the lake and 75-foot buffer along the banks of the three tributaries to Jenkinson Lake. Work must be done by hand crews due to the slope and inaccessibility of the terrain.

EQUIPMENT

Equipment used at this site will include personnel van, two service trucks, chainsaws, pole saws, hand tools and clippers for hand cutting and piling around Jenkins Lake and its tributaries.

ACCESS AND STAGING

The work crew of approximately 12 persons would arrive by bus with equipment and supplies delivered by heavy truck. The crew would camp at a designated location for approximately one week using tents to bunk at night with sanitization facilities provided by existing park toilets and mobile wash stations/showers that would be trucked to each location. Alternatively, crews would lodge at a local motel in Pollock Pines or Placerville and commute to the project site daily. Work activities would take place Monday through Friday during the hours of 7:00 am to 7:00 pm, or between 8 a.m. and 5 p.m. on weekends. Activities will occur as weather and site conditions permit over the grant timeline ending in the fall of 2021.

Access to the work site is provided by paved and unpaved roads that occur throughout the park. Crews will camp at the existing parking lot within the park boundary.

2.6.5 CAMP 5 MAINTENANCE YARD/ FLUME 46 – VEGETATION MANAGEMENT PROJECT

Land inside and adjacent to Camp 5 was burned in the King Fire (2014). The vegetation management project for Camp 5 Maintenance Yard/Flume 46 identifies a treatment area that covers 75 acres; 50 acres adjacent to Camp 5 and 25 acres surrounding Flume 46 (Figure 2-6). The vegetation management project proposes to rely on a combination of the following actions:

- ▶ **Hand thinning** – Cut all live and dead less than 10 inches in diameter and 60 feet in height. In addition, all dead or dying trees greater than 10 inches diameter and greater than 60 feet tall will be felled and either hand piled, masticated, chipped, or left in place for slope stabilization. Chipping will be implemented where feasible, otherwise materials will be dispersed by lopping and scattering or small hand piles will be disposed of through burning.
- ▶ **Mechanical Mastication** – Mechanical treatments will be limited to slopes less the 45 percent and areas identified as riparian zones for aquatics. All down existing woody fuel would be masticated concurrently with treatment of standing fuel ladder vegetation.

EQUIPMENT

Equipment used at this site will include an excavator fitted with a mechanical masticator, personnel van, two service trucks, chainsaws, pole saws, and hand tools.

ACCESS AND STAGING

Access to the work site is provided by paved and unpaved roads. Crews will camp at the existing staging area within the site boundary. Alternatively, crews would lodge at a local motel in Pollock Pines or Placerville and commute to the project site daily. Work activities would take place Monday through Friday during the hours of 7:00 am to 7:00 pm, or between 8 a.m. and 5 p.m. on weekends. Activities will occur as weather and site conditions permit over the grant timeline ending in the fall of 2021.

2.7 PROJECT SCHEDULE

Implementation of the actions outlined in the vegetation management projects will occur starting in the fall of 2019 and continuing through the fall of 2021. Approximately 12 workers will be on a specific site on any one time working for an average of 8 hours daily. The phasing of actions will be based on weather conditions and contractor commitments to be determined as part of the contracting process. For purposes of evaluation it is assumed that vegetation clearing will occur sequentially on a single site over a period of four months each year of 2019–2021.

This page intentionally left blank



Figure 2-4. Weber Reservoir

This page intentionally left blank



Figure 2-5. Sly Park Recreation Area

This page intentionally left blank



Figure 2-6. Camp 5 Maintenance Yard/Flume 26

This page intentionally left blank

3 INITIAL STUDY CHECKLIST

PROJECT INFORMATION		
1.	Project Title: El Dorado Irrigation District Vegetation Management Project	
2.	Lead Agency Name and Address: El Dorado Irrigation District 2890 Mosquito Road Placerville, CA 95667	
3.	Contact Person and Phone Number: Doug Venable (530) 642-4187	
4.	Project Location: El Dorado County	
5.	Project Sponsor's Name and Address: El Dorado Irrigation District 2890 Mosquito Road Placerville, CA 95667	
6.	General Plan Designation: Natural Resources/Rural Residential/Low Density Residential	
7.	Zoning: Residential Estate/Recreational Facility	
8.	Description of Project: The El Dorado Irrigation District proposes to conduct vegetation clearance activities covering 570 acres of District-owned property spanning four District facilities located in El Dorado County. The project area encompasses Weber Reservoir, Sly Park Recreation Area, Camp 5 Maintenance Yard (Camp 5), and Flume 46 on the El Dorado Canal (Flume 46). Project activities vary based on the specific site and factors such as grade of slope, but generally include hand thinning, pruning/removal of ladder fuel, mechanical mastication, and slash disposal.	
9.	Surrounding Land Uses and Setting: The project area is located within El Dorado County. The project area is adjacent to residential uses, agricultural uses, forest uses, and recreational uses.	
10.	Other public agencies whose approval is required: (e.g., permits, financing approval, or participation agreement). None	
ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:		
The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.		
<input type="checkbox"/> Aesthetics	<input type="checkbox"/> Agriculture & Forestry Resources	<input type="checkbox"/> Air Quality
<input checked="" type="checkbox"/> Biological Resources	<input checked="" type="checkbox"/> Cultural Resources	<input type="checkbox"/> Energy
<input type="checkbox"/> Geology/Soils	<input type="checkbox"/> Greenhouse Gas Emissions	<input type="checkbox"/> Hazards and Hazardous Materials
<input type="checkbox"/> Hydrology/Water Quality	<input type="checkbox"/> Land Use/Planning	<input type="checkbox"/> Mineral Resources
<input type="checkbox"/> Noise	<input type="checkbox"/> Population/Housing	<input type="checkbox"/> Public Services
<input type="checkbox"/> Recreation	<input type="checkbox"/> Transportation	<input checked="" type="checkbox"/> Tribal Cultural Resources
<input type="checkbox"/> Utilities/Service Systems	<input type="checkbox"/> Wildfire	<input type="checkbox"/> Mandatory Findings of Significance

DETERMINATION (To be completed by the Lead Agency)

- On the basis of this initial evaluation:
- I find that the proposed project **COULD NOT** have a significant effect on the environment, and a **NEGATIVE DECLARATION** will be prepared.
- I find that although the proposed project **COULD** have a significant effect on the environment, there **WILL NOT** be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A **MITIGATED NEGATIVE DECLARATION** will be prepared.
- I find that the proposed project **MAY** have a significant effect on the environment, and an **ENVIRONMENTAL IMPACT REPORT** is required.
- I find that the proposed project **MAY** have a “potentially significant impact” or “potentially significant unless mitigated” impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An **ENVIRONMENTAL IMPACT REPORT** is required, but it must analyze only the effects that remain to be addressed.
- I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier **EIR** or **NEGATIVE DECLARATION** pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier **EIR** or **NEGATIVE DECLARATION**, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

June 07, 2019

Signature

Date

Doug Venable

Environmental Review Analyst

Printed Name

Title

El Dorado Irrigation District

Agency

EVALUATION OF ENVIRONMENTAL IMPACTS

1. A brief explanation is required for all answers except “No Impact” answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A “No Impact” answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. “Potentially Significant Impact” is appropriate if there is substantial evidence that an effect may be significant. If there are one or more “Potentially Significant Impact” entries when the determination is made, an EIR is required.
4. “Negative Declaration: Less Than Significant With Mitigation Incorporated” applies where the incorporation of mitigation measures has reduced an effect from “Potentially Significant Impact” to a “Less Than Significant Impact.” The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from “Earlier Analyses,” as described in (5) below, may be cross-referenced).
5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
 - a) Earlier Analysis Used. Identify and state where they are available for review.
 - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c) Mitigation Measures. For effects that are “Less than Significant with Mitigation Measures Incorporated,” describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
7. Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
8. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project’s environmental effects in whatever format is selected.
9. The explanation of each issue should identify:
 - a) the significance criteria or threshold, if any, used to evaluate each question; and
 - b) the mitigation measure identified, if any, to reduce the impact to less than significance.

Section 3 is the analysis portion of this Initial Study. The section evaluates the potential environmental impacts of the project. Section 3 includes 21 environmental subsections, identified below.

- | | |
|---------------------------------------|--|
| 1. Aesthetics | 12. Mineral Resources |
| 2. Agriculture and Forestry Resources | 13. Noise |
| 3. Air Quality | 14. Population and Housing |
| 4. Biological Resources | 15. Public Services |
| 5. Cultural Resources | 16. Recreation |
| 6. Energy | 17. Transportation |
| 7. Geology and Soils | 18. Tribal Cultural Resources |
| 8. Greenhouse Gas Emissions | 19. Utilities and Service Systems |
| 9. Hazards and Hazardous Materials | 20. Wildfire |
| 10. Hydrology and Water Quality | 21. Mandatory Findings of Significance |
| 11. Land Use and Planning | |

Each environmental issue subsection is organized in the following manner:

The **Environmental Setting** summarizes the existing conditions at the regional, subregional, and local levels, as appropriate; and identifies applicable plans and technical information for the particular issue area.

The **Discussion** section provides a detailed discussion of each environmental issue checklist question. The level of significance for each topic is determined by considering the predicted magnitude of the impact. Four levels of impact significance are evaluated in this Initial Study:

- ▶ **Potentially Significant Impact.** This response is appropriate when there is substantial evidence that an effect is significant even with implementation of recommended mitigation measures.
- ▶ **Less than Significant with Mitigation Incorporated.** This response applies when the incorporation of mitigation measures would reduce an effect from “Potentially Significant Impact” to a “Less-than-Significant Impact.” The Lead Agency must describe the mitigation measures when significant impacts are identified by the analysis, and briefly explain how they reduce the effect to a less-than-significant level.
- ▶ **Less-than-Significant Impact.** A less-than-significant impact is used when the project would have little or no adverse effect on the environment. Mitigation measures are, therefore, not necessary, although they may be recommended to further reduce a minor impact.
- ▶ **No Impact.** This impact significance applies when the project would have no impact on the environment for the particular issue, or they are not relevant to the project.

3.1 AESTHETICS

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<i>I. Aesthetics. Except as provided in Public Resources Code Section 21099, would the project:</i>				
a) Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) In non-urbanized area, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3.1.1 ENVIRONMENTAL SETTING

This project area is located entirely within El Dorado County on the western slope of the north central region of the Sierra Nevada range in California. The District facilities are located within the mid-elevational range of the Sierra Nevada ecoregion, from 2,280 feet above mean sea level (AMSL) at the Weber Reservoir facility to 4,040 feet AMSL at the Flume 46 facility. Surrounding land uses include timber harvest and recreation in Eldorado National Forest, residential home sites, and agricultural production (i.e., vineyards and cattle grazing).

Weber Dam and Reservoir is sited along the North Fork Weber Creek and consists of vegetation characterized by the transition from foothill annual grassland and mixed chaparral to mixed conifer forest. Several creeks and drainages traverse the site from north to south. The Sly Park Recreation Area (SPRA) encompasses most of Jenkinson Lake and the approximately 1,010 acres of steep, heavily forested land surrounding it. A west-east trending ridgeline dominates the north side of the site. Jenkinson Lake can be viewed from trails on the upper reaches of the slopes and from the residential area to the northwest. Dense trees on the west side of the park provide screening of the development to the west of Sly Park Road, however, views from the west to the east provide spectacular views of the snow covered peaks of the Sierra Nevada. Views of the lake from the ridge to the south of the lake, along which the Mormon Emigrant Trail runs, are blocked by dense forest. Views of the lake from the equestrian trail in this area are also very limited. (El Dorado Irrigation District, 2007).

The Camp 5 project site is composed primarily of developed areas, including the El Dorado Canal (Canal), a Federal Energy Regulatory Commission (FERC) Hydroelectric Project (Project No.184) maintenance facility, the EID headquarters for Project No. 184, and several access roads/parking areas. Outside of developed areas, the vegetation community consists entirely of mixed conifer forest. Flume 46 is a 0.75-mile long wooden flume that represents a key segment of the Canal. It is built into the side of a steep, north-facing slope vegetated by mixed conifer and montane hardwood forest plant communities.

A list of the county's significant scenic views and resources is located in Table 5.3-1 of the El Dorado County General Plan EIR (El Dorado County, 2003). Many of these viewpoints are areas along highways where viewers can see large water bodies (e.g., Lake Tahoe and Folsom Reservoir), river canyons, rolling hills, or forests. Other viewpoints are the locations of historic structures or districts that are reminiscent of El Dorado County's heritage (El Dorado County, 2003). Highway 50 is designated a state scenic highway and is located adjacent to and within a portion of the project area (Caltrans, 2019).

3.1.2 DISCUSSION

a) **Have a substantial adverse effect on a scenic vista?**

Some areas adjacent to Highway 50 are considered a scenic resource. However, the treatment areas subject to proposed vegetation management would not be visible from Highway 50. While vegetation clearance may be visible to the public, the project would retain the forested characteristics of the site. Project implementation would reduce the potential for a wildfire to burn with such intensity and severity that the landscape is denuded. The project would reduce surface fuels, reduce ladder fuels, decrease crown density, and retain large, fire-resistant trees which results in maintaining the scenic resources of the property. Therefore, the project would have a **less than significant** impact.

b) **Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?**

Vegetation treatment areas would not be visible from Highway 50 which is considered a scenic highway. There are no historic buildings within the treatment areas and the project would not damage rock outcroppings. Project implementation would primarily involve hand thinning and mechanical mastication of vegetation in select areas of the forest. Large trees would be preserved in the treatment areas. Work exclusion areas will be identified around riparian zones in accordance with the Forest Practice Rules which would also help preserve the visual character of the treatment areas. Project activities would improve the long-term viability of the scenic landscape by creating conditions to promote a more fire resilient forest. Vegetation treatment activities would reduce the risk of catastrophic wildfire, which could denude the landscape and destroy the scenic resources in the area. Therefore, the project would have a **less than a significant** impact.

c) **In non-urbanized area, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?**

The vegetation treatment areas are generally in non-urbanized locations and are largely characterized by conifer forests. The project proposes the use of thinning and pruning, along with mechanical mastication where feasible, to restore the forest to a more fire resilient landscape. Project implementation could result in short-term effects to the existing visual character or quality of the public views in the project area where burning or mechanical mastication is anticipated to occur. Sly Park is the most publicly visible site because treatments would occur in publically accessible recreation areas. However, treatments in the Sly Park Recreation Area would be limited to treatments with chainsaws and hand tools. Chipping would be the preferred treatment for slash and vegetation removed at Sly Park. If burning is required, it would generally occur outside of the peak recreation season, which

would further minimize impacts to public views. The other project sites (i.e., Weber, Camp 5, and Flume 46) do not have established public access or recreation facilities and are generally only visible from a distance.

The project related vegetation treatments are not anticipated to substantially degrade the visual character or quality of public views of the project areas. Therefore, the project would have a **less than significant** impact.

d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Project implementation would not introduce new sources of substantial light or light that would adversely affect day or nighttime views in the area. Prescribed burning could result in temporary sources of light during burning operations. However, these actions would be short-term and are not anticipated to create substantial light or glare that would affect day or nighttime views. This impact would be **less than significant**.

3.2 AGRICULTURE AND FORESTRY RESOURCES

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
II. Agriculture and Forestry Resources.				
<p>In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997, as updated) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board.</p>				
Would the project:				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with existing zoning for agricultural use or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Result in the loss of forest land or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3.2.1 ENVIRONMENTAL SETTING

According to the California Department of Conservation's Farmland Mapping and Monitoring Program map for El Dorado County, the project area is not designated prime farmland, farmland of statewide importance, unique farmland, or farmland of local importance (Department of Conservation (DOC) 2016a). No properties used for

agricultural purposes are in to the project area, and the project site is neither on nor adjacent to any land designated as a Williamson Act parcel (DOC 2016b). The northern boundary of Weber Reservoir project area is adjacent to areas designated as agricultural land use.

3.2.2 DISCUSSION

a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

The project area is not on any Prime Farmland, Unique Farmland, or Farmland of Statewide importance, as shown on the maps prepared pursuant to the Farmland Mapping Monitoring Program of the California Resources Agency. **No impact** would occur.

b) Conflict with existing zoning for agricultural use or a Williamson Act contract?

The project area is not on lands zoned for agricultural use or under a Williamson Act contract. **No impact** would occur.

c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

Vegetation treatment activities would not alter the land use, conflict with existing zoning or cause rezoning of forest land or timberland. **No impact** would occur.

d) Result in the loss of forest land or conversion of forest land to non-forest use?

The project proposes the use of thinning and pruning, along with mechanical mastication where feasible, to restore the forest to a more fire resilient landscape. Treatment areas would remain forested following project implementation and no loss or conversion of forest land would occur. Additionally, vegetation clearing under the project would be conducted in a manner consistent with the prescribed management actions outlined in Section 1051.3 of the California Forest Practice Rules. The purpose of the Forest Practice Rules is to implement the provisions of the Z'berg-Nejedly Forest Practice Act of 1973 in a manner consistent with other laws, including but not limited to, the Timberland Productivity Act of 1982, CEQA, the Porter Cologne Water Quality Act, and the California Endangered Species Act. The Forest Practice Act requires activities such as logging and vegetation clearing for fuel reduction to avoid or substantially lessen significant adverse effects on the environment (CAL FIRE 2017). Since the project would not result in the loss of forest land or conversion of forest land to non-forest use and would follow the provisions set forth by the California Forest Practice Rules, the project would have a **less than significant** impact.

e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?

As described above, the project would not occur on lands zoned for agriculture uses or conflict with existing zoning for agricultural use or a Williamson Act contract. The project would not result in residential uses adjacent to farmland, nor would it result in or encourage the extension of roadways or public service/utility infrastructure into an undeveloped area. This project would not conflict with existing zoning for forestland, timberland or Timberland Production Zone, nor would it result in the conversion of forestland to non-forest use. The project would have a **less than significant** impact.

3.3 AIR QUALITY

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
III. Air Quality.				
Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied on to make the following determinations.				
Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3.3.1 ENVIRONMENTAL SETTING

The project area is in the Mountain Counties Air Basin (MCAB). The MCAB lies along the northern Sierra Nevada, close to or contiguous with the Nevada border, and covers an area of roughly 11,000 square miles. El Dorado County consists of hilly and mountainous terrain that affects airflow patterns throughout the county. These mountain and hill formations direct surface air flows, cause shallow vertical mixing, and create areas of high pollutant concentrations by hindering dispersion. Because of their proximity to the Sacramento Valley, the MCAB and El Dorado County are prone to receiving pollutant transport from the more populated and traffic-heavy areas.

Various air pollutants may adversely affect human or animal health, reduce visibility, damage property, and reduce the productivity or vigor of crops and natural vegetation. Criteria air pollutants have been identified by the United States Environmental Protection Agency (EPA) and the California Air Resources Board (ARB) as being of concern both on a nationwide and statewide level: ozone; carbon monoxide (CO); nitrogen dioxide (NO₂); sulfur dioxide (SO₂); lead; and particulate matter (PM), which is subdivided into two classes based on particle size: PM equal to or less than 10 micrometers in diameter (PM₁₀) and PM equal to or less than 2.5 micrometers in diameter (PM_{2.5}).

In addition to criteria air pollutants, EPA and ARB regulate toxic air contaminants (TACs), also known as hazardous air pollutants. A TAC is defined as an air pollutant that may cause or contribute to an increase in mortality or in serious illness, or that may pose a hazard to human health.

Federal, state, and local plans, policies, laws, and regulations provide a framework for addressing aspects of air quality that would be affected by the project. Health-based air quality standards have been established for the criteria air pollutants by EPA at the national level, and by ARB at the state level; these are referred to as the National Ambient Air Quality Standards (NAAQS) and the California Ambient Air Quality Standards (CAAQS), respectively.

The MCAB is designated as a nonattainment area for ozone, and as an attainment or unclassified area for all other pollutants. With respect to the CAAQS, the MCAB is currently designated as a nonattainment area for ozone and PM₁₀, and as an attainment or unclassified area for all other pollutants.

EPA requires each state with regions that have not attained the NAAQS to prepare a state implementation plan (SIP) detailing how each local area will meet these standards. ARB is the lead agency for developing California's SIP, and oversees the activities of local air quality management agencies. Emission reduction programs and measures are described in air quality attainment plans (AQAPs) or air quality management plans (AQMPs) that the air districts submit to ARB for review and approval. ARB incorporates the AQAPs and AQMPs from local air districts into the SIP for EPA approval.

The El Dorado County Air Quality Management District (EDCAQMD) attains and maintains air quality conditions in El Dorado County. EDCAQMD was formerly known as the El Dorado County Air Pollution Control District (EDCAPCD). After the El Dorado County Air Pollution Control District Guide to Air Quality Assessment (Guide) was published, the name of the air district was changed to EDCAQMD. Therefore, all references to the air district in this analysis, with the exception of the Guide, are EDCAQMD.

EDCAQMD requires all projects to implement Rule 202 (Visible Emissions), Rule 205 (Nuisance), Rule 223 (Fugitive Dust—General Requirements), Rule 223-1 (Fugitive Dust—Construction, Bulk Material Handling, Blasting, Other Earthmoving Activities and Carryout and Trackout Prevention), Rule 223-2 (Fugitive Dust—Asbestos Hazard Mitigation), and Rule 300 (Open Burning).

Serpentine is a mineral commonly found in seismically active regions of California, usually in association with ultramafic rocks and along associated faults. Certain types of serpentine occur naturally in a fibrous form known generically as asbestos. According to the Asbestos Review Area map for El Dorado County, naturally occurring asbestos-bearing serpentine is not typically found in the geological formations present in the project area (EDCAQMD 2018).

The California Forest Practice Rules prescribe rules and actions for burning slash after vegetation clearing operations associated with fuel management. The following rules specific to prescribed burns would be implemented:

- ▶ 937.3 Prescribed Broadcast Burning of Slash [Northern]. Broadcast burning may be prescribed for slash treatment subject to the following conditions: (a) Such burning shall be done only after the first heavy fall rains and shall be completed before April 1; (b) It may occur within cleared firebreaks of not less than 10 ft. (3.05 m) in width; (c) Use of the broadcast burning prescription in the Watercourse and Lake Protection Zone for Class I, and Class II, is prohibited. Where necessary to protect downstream beneficial uses, the Director may prohibit burning prescriptions in Class III watercourses; (d) Exceptions to requirements (a), (b) and (c) above may be granted provided a project-type burning permit is obtained prior to burning and the terms of the permit are adhered to while burning

- ▶ 917.5, 937.5, 957.5 Burning of Piles and Concentrations of Slash [All Districts with minor variances]. When the option of burning piles or concentrations of slash is chosen to meet the slash treatment requirements as specified in these rules, such burning shall be done as follows: (a) Piles and concentrations shall be sufficiently free of soil and other noncombustible material for effective burning. (b) The piles and concentrations shall be burned at a safe time during the first wet fall or winter weather or other safe period following piling and according to laws and regulations. Piles and concentrations that fail to burn sufficiently to remove the fire hazard shall be further treated to eliminate that hazard. All necessary precautions shall be taken to confine such burning to the piled slash.
- ▶ 917.6, 937.6, 957.6 Notification of Burning [All Districts] The local representative of the Director shall be notified in advance of the time and place of any burning of logging slash. Any burning shall be done in the manner provided by Law.
- ▶ 917.7, 937.7, 957.7 Protection of Residual Trees [All Districts] Slash burning operations and fire hazard abatement operations shall be conducted in a manner which will not damage residual trees and reproduction to the extent that they will not qualify to meet the silvicultural and stocking requirements of the rules

3.3.2 DISCUSSION

a) Conflict with or obstruct implementation of the applicable air quality plan?

Project consistency is based on whether the project would conflict with or obstruct implementation of the air quality plan and/or applicable portions of the SIP, which would lead to increases in the frequency or severity of existing air quality violations. The region’s AQAP was developed pursuant to California Clean Air Act requirements, and identifies feasible emissions control measures to provide expeditious progress in attaining the ozone standard. Assumptions about land use development used in the AQAP are taken from local and regional planning documents, including general plan land use designations and zoning.

Consistency with the AQAP is determined by analyzing a project with the assumptions in the AQAP. The project would involve the use of excavators, trucks, mechanical equipment, and worker commute trips. Emissions from these activities would be short-term and intermittent, and vary in duration at each project site. The project would not substantially increase mobile-source emissions that were previously included in the AQAP. Therefore, the emissions associated with implementation of the project have been accounted for in the emissions modeling for the current AQAP, and will be accounted for in future AQAPs. Accordingly, implementation of the project would not exceed the assumptions used to develop the current plan, and would not obstruct or conflict with the AQAP.

EID contract specifications include requirements that contractors maintain construction equipment in good operating condition to minimize air pollution. Because the project would not result in a significant increase in emissions, the project would not conflict with or obstruct implementation of the AQAP and SIP. This would be **less than significant**.

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

The cumulative analysis focuses on whether a specific project would result in a cumulatively considerable increase in emissions. By its very nature, air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development in the MCAB, and this regional impact is cumulative rather than being attributable to any one source. A project's emissions may be individually limited, but cumulatively considerable when taken in combination with past, present, and future development projects.

The EDCAQMD approach for determining whether a proposed project has a significant cumulative impact is by determining whether the project is consistent with an approved plan or mitigation program of regional application in place for the pollutants emitted by the proposed project. This applies to both the construction and operation phases of a project. With regard to reactive organic gases (ROG) and nitrogen oxide (NO_x) emissions, the project would be considered consistent with the AQAP and not have a significant cumulative impact if the project:

- ▶ Does not require a change in the existing land use designation (e.g., a general plan amendment or rezone), and projected emissions of ROG and NO_x from the project are equal to or less than the emissions anticipated for the site if developed under the existing land use designation.
- ▶ Does not exceed the “project alone” significance criteria.
- ▶ Includes any applicable emission reduction measures contained in and/or derived from the AQAP.
- ▶ Complies with all applicable air district rules and regulations.

With regard to PM₁₀ emissions, the project would not be considered significant for cumulative impacts of PM₁₀ if the project:

- ▶ Is not significant for “project alone” emissions of these pollutants (i.e., does not exceed CAAQS or NAAQS).
- ▶ Complies with all applicable rules and regulations of the EDCAQMD.
- ▶ Is not cumulatively significant for ROG, NO_x, and CO based on the criteria set forth above.

The project would result in short-term and intermittent emissions from vegetation clearance activities and commuter work trips. Prescribed burns would also occur intermittently as needed at the project sites. By reducing heavily overgrown vegetation, the project would reduce the incidence of catastrophic wildfires, thereby reducing emissions of GHGs and increasing the carbon sequestration of forest areas. Prescribed burns would be managed by the El Dorado County Air Pollution Control District (EDCAPCD) smoke management program and would follow rules set forth in the California Forest Practice Rules (EDCAPCD 2002). In addition, the project would not require a change to the existing land use designation. The project would not result in long-term, cumulatively considerable net increases of any criteria pollutant.

As described above, the project would meet all EDCAQMD air quality requirements and follow the rules set forth in the California Forest Practice Rules, therefore the project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard. The impact would be **less than significant**.

c) Expose sensitive receptors to substantial pollutant concentrations?

Some members of the population—children, older adults, and persons with pre-existing respiratory or cardiovascular illness—are especially sensitive to air pollutant emissions. Such people are given additional consideration when the impacts of projects on air quality are evaluated. Therefore, at-risk land uses sensitive to poor air quality would include residences, schools, daycare centers, playgrounds, medical facilities, and nursing homes. Recreational land uses, such as parks, also are considered moderately sensitive to air pollution. Moderately-dense residential uses are adjacent to and at varying distances from the project area. Recreational land uses within the project include visitors at the SPRA project site. These are considered the closest sensitive receptors that would be affected by the project.

As described above, the project would not conflict with an applicable air plan and would not result in the cumulative increase in criteria pollutants. Emissions generated from the project would be short-term and intermittent from 2019 to 2021, and would vary depending on the project site. Project activities at Sly Park involve the use of chainsaws and hand tools for thinning and pruning. Chipping would be the preferred treatment for slash and vegetation removed at Sly Park. If burning is required, it would generally occur outside of the peak recreation season.

The project would not result in long-term exposure of substantial pollutant concentrations to sensitive receptors. In addition, the project would follow the rules set forth for prescribed burning in the California Forest Rules and in accordance with the EDCAPCD smoke management plan. Therefore, the project would not expose sensitive receptors to substantial pollutant concentrations. The impact is **less than significant**.

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

The occurrence and severity of odor impacts depend on numerous factors: the nature, frequency, and intensity of the source; wind speed and direction; and the presence of sensitive receptors. Although offensive odors rarely cause physical harm, they still can be very unpleasant, and can generate citizen complaints to local governments and regulatory agencies.

Exhaust from diesel equipment and prescribed burns may emit odors during project implementation. However, because of the temporary nature of these emissions and the diffusive from diesel exhaust and prescribed burns, nearby receptors would not likely be adversely affected by project-related diesel exhaust odors. Odors from these sources would be localized, and generally confined to the immediate area surrounding the project site; and the odors would be typical of most construction sites, and temporary in nature. The District includes requirements in the contractor plans and specifications requiring compliance with the EDCAQMD Rule 205 for reducing potential for nuisance resulting from objectionable odors. The project would not result in long-term emissions of odors affecting a substantial number of people. As a result, the project would not create objectionable odors affecting a substantial number of people. This impact would be **less than significant**.

3.4 BIOLOGICAL RESOURCES

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
IV. Biological Resources. Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or the U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Game or the U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3.4.1 ENVIRONMENTAL SETTING

The project area covers 570 acres of District-owned property spanning four District facilities located in El Dorado County, California (refer to Figure 2-1, Regional Location):

1. Weber Reservoir
2. Sly Park Recreation Area (SPRA)
3. Camp 5 Maintenance Yard (Camp 5)
4. Flume 46 on the El Dorado Canal (Flume 46)

The District facilities are situated on the western slope of the Sierra Nevada Mountains, within the Sierra Nevada ecoregion. Habitats in the Sierra Nevada region vary from foothill oak savanna and chaparral, to mixed coniferous forest and riparian canyons at mid-elevations, to alpine and wet meadow habitats at the highest elevations. The

eastern slope of the Sierra Nevada is drier and characterized by juniper woodlands, sagebrush, and desert scrub. The majority of the region is publicly owned, including eleven national forests and four national parks as well as lands owned by Bureau of Land Management, Bureau of Reclamation, California State Parks, and California Department of Forestry and Fire Protection.

The District facilities are located within the mid-elevational range of the Sierra Nevada ecoregion, from 2,280 feet above mean sea level (AMSL) at the Weber Reservoir facility to 4,040 feet AMSL at the Flume 46 facility. Surrounding land uses include timber harvest and recreation in Eldorado National Forest, residential home sites, and agricultural production (i.e., vineyards and cattle grazing).

The biological study area encompasses the locations of the District facilities subject to project-related actions (project sites), as well as adjacent lands (i.e., up to a 500-foot buffer from project boundaries, where accessible) that were surveyed by biologists as part of this evaluation. Biological surveys were conducted within and adjacent to each project site for vegetation type, wetlands and other waters, riparian habitat, wildlife habitats, and general observations of wildlife usage. The combined project sites total approximately 570 acres of temporary disturbance associated with project staging, access, vegetation treatment, and monitoring.

3.4.2 SITE DESCRIPTIONS

The specific locations and topography of each project site, representing the biological study areas, are depicted in the Project Description (refer to Figures 2-2, 2-3 and 2-4). Each project site location is also briefly described below.

WEBER RESERVOIR

As shown in Figure 2-2, Weber Dam and Reservoir is sited along the North Fork Weber Creek. The project site encompasses approximately 370 acres on the north side of Weber Reservoir, sloping generally from north to south at elevations ranging from 2,200 to 2,760 feet AMSL. Soils are rocky and cobbly loam derived from volcanic and slate/sandstone parent material (NRCS 2017). Vegetation in the Weber Reservoir project site is characterized by the transition from foothill annual grassland and mixed chaparral to mixed conifer forest. Several creeks/streams and small, seasonal drainages traverse the site from north to south.

SLY PARK RECREATION AREA

The Sly Park Recreation Area (SPRA) project site encompasses approximately 118 acres that surround Jenkinson Lake, an EID-managed reservoir, and overlap with portions of Hazel Creek and Sly Park Creek (Figure 2-3). The project site gains elevation from west to east from approximately 3,200 to 3,560 feet AMSL. Soils consist of rocky and cobbly loam, sandy loam, and alluvium derived from volcanic and slate/sandstone parent material (USGS 2013). Surrounding properties consist of moderately dense residential development to the west and Sierra Pacific Industries and U.S. Forest Service-managed timberlands to the north, east, and south. The SPRA project site is used heavily for recreation, and is crisscrossed by numerous access roads, trails, and campgrounds. Vegetation communities consist primarily of forest types (i.e., montane hardwood, ponderosa pine, Douglas fir, and mixed conifer), with patches of riparian, grassland, and chaparral.

CAMP 5 MAINTENANCE YARD/FLUME 46

The Camp 5 Maintenance Yard/Flume 46 sites are located along the Highway 50 corridor (Figure 2-4). Camp 5 encompasses approximately 50 acres situated immediately north of Highway 50 on a flattened terrace between steep, north-facing slopes, on both sides of the El Dorado Canal (Canal) and maintenance facilities. The elevation of Camp 5 ranges from 3,720 to 4,000 feet AMSL. The 25-acre Flume 46 project site is located approximately 3.5 miles to the east of Camp 5 on a steep north-facing slope at about 4,040 feet AMSL.

The Camp 5 project site is highly disturbed and composed primarily of developed areas, including the Canal, a Federal Energy Regulatory Commission (FERC) Hydroelectric Project No.184 (Project No.184), and several access roads/parking areas. Outside of developed areas, the vegetation community consists entirely of mixed conifer forest. Several small drainages traverse forested areas generally from south to north, following the slope gradient, and intersect the Canal at several locations. Soils are rocky loam and rocky coarse sandy loam of slate/sandstone and granitic parent material (USGS 2013).

Flume 46 is a 0.75-mile long wooden flume that represents a key segment of the Canal. It is built into the side of a steep, north-facing slope vegetated by mixed conifer and montane hardwood forest plant communities. Rock outcrops of granitic origin are common (i.e., Metamorphic rock land soil series); and soils consist of rocky loam and rocky coarse sandy loam of slate/sandstone and granitic parent material (USGS 2013). A rocky, high-gradient stream (Ogilby Creek) flows under Flume 46 and follows the steep slope gradient from southeast to northwest toward the South Fork American River.

VEGETATION COMMUNITIES AND HABITATS

Vegetation communities are described below and depicted in Figures 3.4-1 through 3.4-4. Vegetation community types are based on dominant plant species' presence as defined by the *Manual of California Vegetation* (Sawyer, et al. 2009) cross-referenced to CDFW Wildlife Habitat Relationships system habitat types (CDFW 2019a).

During reconnaissance surveys, dominant plant species were identified to the greatest extent feasible in all project sites; however, given the timing of surveys in early spring, many herbaceous and some shrub species were not yet identifiable due to lack of flowers and fruits.

A total of six habitat types were mapped in the biological study areas. These include annual grassland, mixed chaparral, montane riparian, montane hardwood forest, mixed conifer forest, Douglas fir forest, and ponderosa pine forest. Data sources include results of the reconnaissance-level survey and the Sly Park Management Plan vegetation map (Foothill Associates 2007).

ANNUAL GRASSLAND

Annual grassland is common throughout the study area as small patches along developed and disturbed areas, including trails, parking areas, picnic sites, buildings, power line corridors, canals, ditches, and roadsides. In addition, approximately 10 acres of continuous annual grassland habitat exists in the northeast portion of the Weber Reservoir project site. Introduced annual grasses are the dominant plant species in this habitat (CDFW 2019a). The annual grassland vegetation in the study area is composed primarily of nonnative annual grasses and forbs, including soft chess brome (*Bromus hordeaceus*), Italian ryegrass (*Festuca perennis*), and filaree (*Erodium* sp.). In the Weber Reservoir project site, the 10-acre patch of grassland in the northeast corner also contains several native annual forbs, such as field cluster lily (*Dichelostemma* sp.) and lupine (*Lupinus* sp.).

Many wildlife species use annual grassland for foraging and breeding. Characteristic reptiles include the western fence lizard, common garter snake, and western rattlesnake. Mammals typically found in this habitat include the black-tailed jackrabbit, California ground squirrel, Botta's pocket gopher, western harvest mouse, California vole, and coyote. Common birds known to breed in annual grassland include the short-eared owl and western meadowlark. This habitat also provides important foraging habitat for the turkey vulture, northern harrier, American kestrel, white-tailed kite, and prairie falcon.

MIXED CHAPARRAL

Approximately 160 acres of mixed chaparral habitat are mapped in the study area, located in the Weber Reservoir (145 acres) and SPRA (14 acres) project sites. Mixed chaparral habitat is dominated by evergreen shrubs that, at maturity, form a dense, nearly impenetrable thicket of brush (CDFW 2019a). Stands that have not burned for several decades often contain considerable accumulated leaf litter and standing dead material. Dominant species in cismontane mixed chaparral include several species of ceanothus (*Ceanothus* sp.) and manzanita (*Arctostaphylos* sp.). In the study area, mixed chaparral habitat is characterized by dense shrub thickets co-dominated by manzanita and buckbrush ceanothus (*Ceanothus cuneatus*), intermixed with toyon (*Heteromeles arbutifolia*) and hoary coffeeberry (*Frangula californica* ssp. *tomentella*). In open areas, typically along trails and road cuts, understory herbaceous species include nonnative annual grasses, common soaproot (*Chologalum pomeridianum* var. *pomeridianum*) and yerba santa (*Eriodictyon californicum*). Associated trees, occurring as scattered individuals, include black oak (*Quercus kelloggii*), canyon live oak (*Quercus chrysolepis*), gray pine (*Pinus sabiniana*), and ponderosa pine (*Pinus ponderosa*).

Chaparral provides foraging, roosting, resting and nesting sites, as well protection from predators and shelter from climate extremes, for rodents, deer, rabbits, and numerous species of birds.

MONTANE RIPARIAN

Approximately 14 acres of riparian habitat is present in the study area, concentrated along creeks and perennial drainages that traverse the Sly Park Recreation Area (13 acres) and Flume 46 (0.8 acre) project sites. Small patches (i.e., less than 0.1 acre) of riparian vegetation are also be present along small, seasonal drainages mapped in the Weber Reservoir project site where there are openings in the mixed conifer forest canopy. In the central and northern Sierra Nevada, characteristic riparian species include white alder (*Alnus rhombifolia*), aspen (*Populus tremuloides*), black cottonwood (*Populus trichocarpa*), dogwood (*Cornus* sp.), western azalea (*Rhododendron occidentale*), and willow (*Salix* sp.). The transition from riparian to non-riparian vegetation is often abrupt, especially in areas of steep topography.

In the study area, riparian habitat intergrades with montane hardwood and mixed conifer forest habitats. In the Weber Reservoir project site, dominant riparian species in drainages include white alder, Himalayan blackberry (*Rubus armeniacus*), and California wild rose (*Rosa californica*). Riparian habitats along creeks (i.e., Hazel Creek and Sly Park Creek) and streams in the project site are dominated by bigleaf maple (*Acer macrophyllum*), mountain dogwood (*Cornus nuttallii*), and black willow (*Salix gooddingii*) with a mixed conifer overstory. Herbaceous species along creek banks include seep monkeyflower (*Erythranthe guttata*), wild strawberry (*Fragaria vesca*), and Himalayan blackberry.

Riparian areas provide water, thermal cover, migration corridors, and diverse nesting and feeding opportunities for a wide range of wildlife, including amphibians, reptiles, birds and mammals.

AQUATIC FEATURES

Prior to site reconnaissance surveys, AECOM biologists reviewed USGS quadrangle maps and USFWS National Wetland Inventory data and current and historic Google Earth satellite images of the project site for the presence of potential aquatic features. Natural aquatic features include creeks/streams and seasonal drainages. Drainages mapped throughout the study area during reconnaissance surveys (see Figures 3.4-1 – 3.4-4) represent the approximate locations of small, linear aquatic features observed at the time of the biological reconnaissance surveys; these features do not appear in NWI data and are not visible on Google Earth satellite images. Drainages are small and seasonal in nature and are differentiated from the larger creeks/streams in the area by the absence or patchy distribution of riparian vegetation, and lack of a permanent source of hydrology. In addition to the natural aquatic features described above, several manmade aquatic features, such as canals, flumes, and reservoirs are present throughout the study area.

MONTANE HARDWOOD FOREST

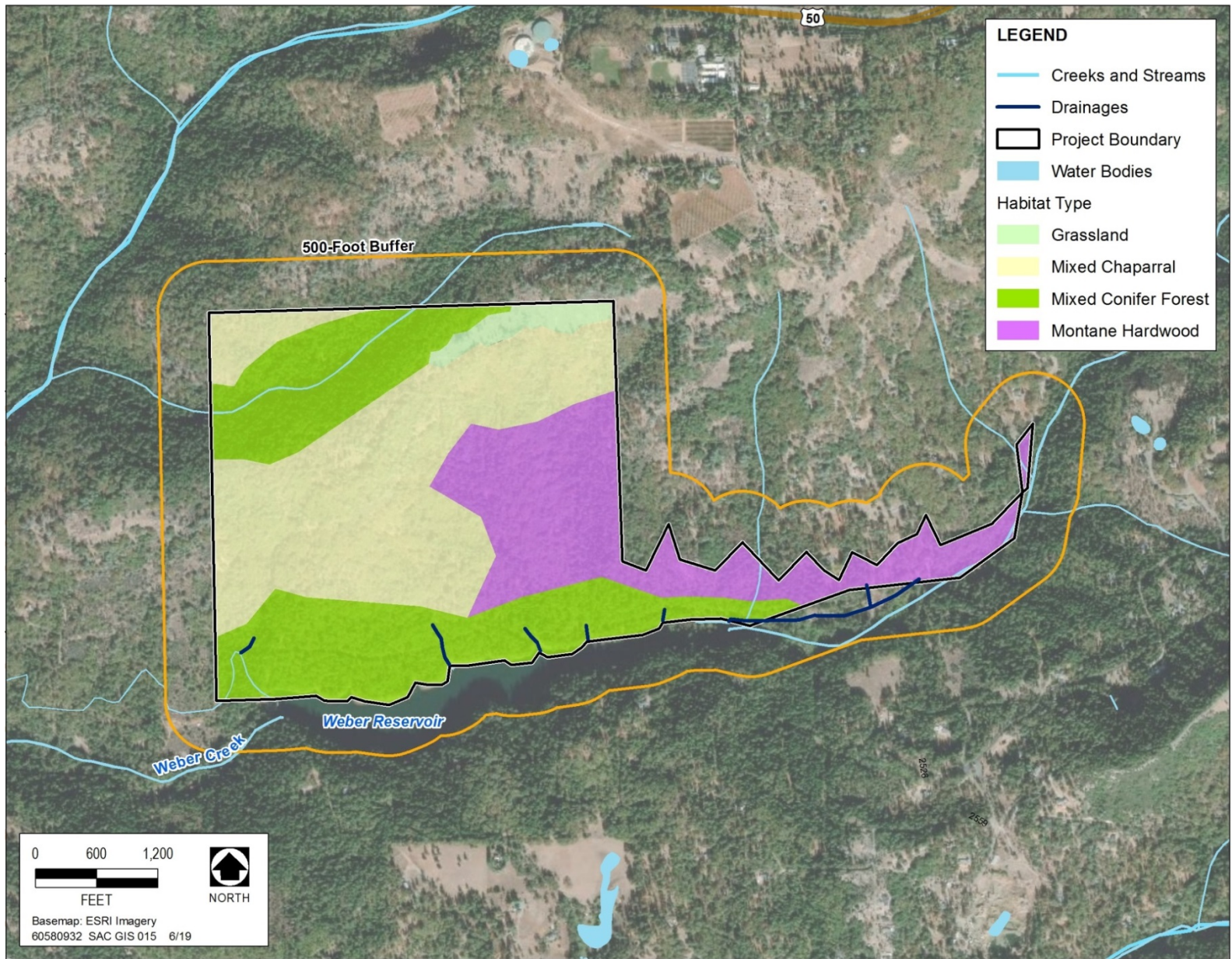
Approximately 107 acres of montane hardwood forest occurs in the study area, located at Weber Reservoir (93.5 acres), Sly Park Recreation Area (5.6 acres), and Flume 46 (8.6 acres) project sites, usually on moderate to steep slopes. Montane hardwood forest is composed of a pronounced hardwood tree layer (CDFW 2019a). In the study area, this habitat often interfaces with mixed chaparral and mixed conifer forest habitats. The vegetation community is dominated by canyon live oak (*Quercus chrysolepis*) intermixed with ponderosa pine, black oak, and gray pine. Associated understory vegetation includes manzanita, poison oak (*Toxicodendron diversilobum*), and annual grassland species.

Characteristic bird and animal species include those that utilize acorns as a major food source, such as scrub and Steller's jays, acorn woodpecker, western gray squirrel, wild turkey, mountain quail, band-tailed pigeon, California ground squirrel, dusky-footed woodrat, black bear, and mule deer. Many amphibians and reptiles are also found on the forest floor.

MONTANE HARDWOOD/CONIFER (MIXED CONIFER) FOREST

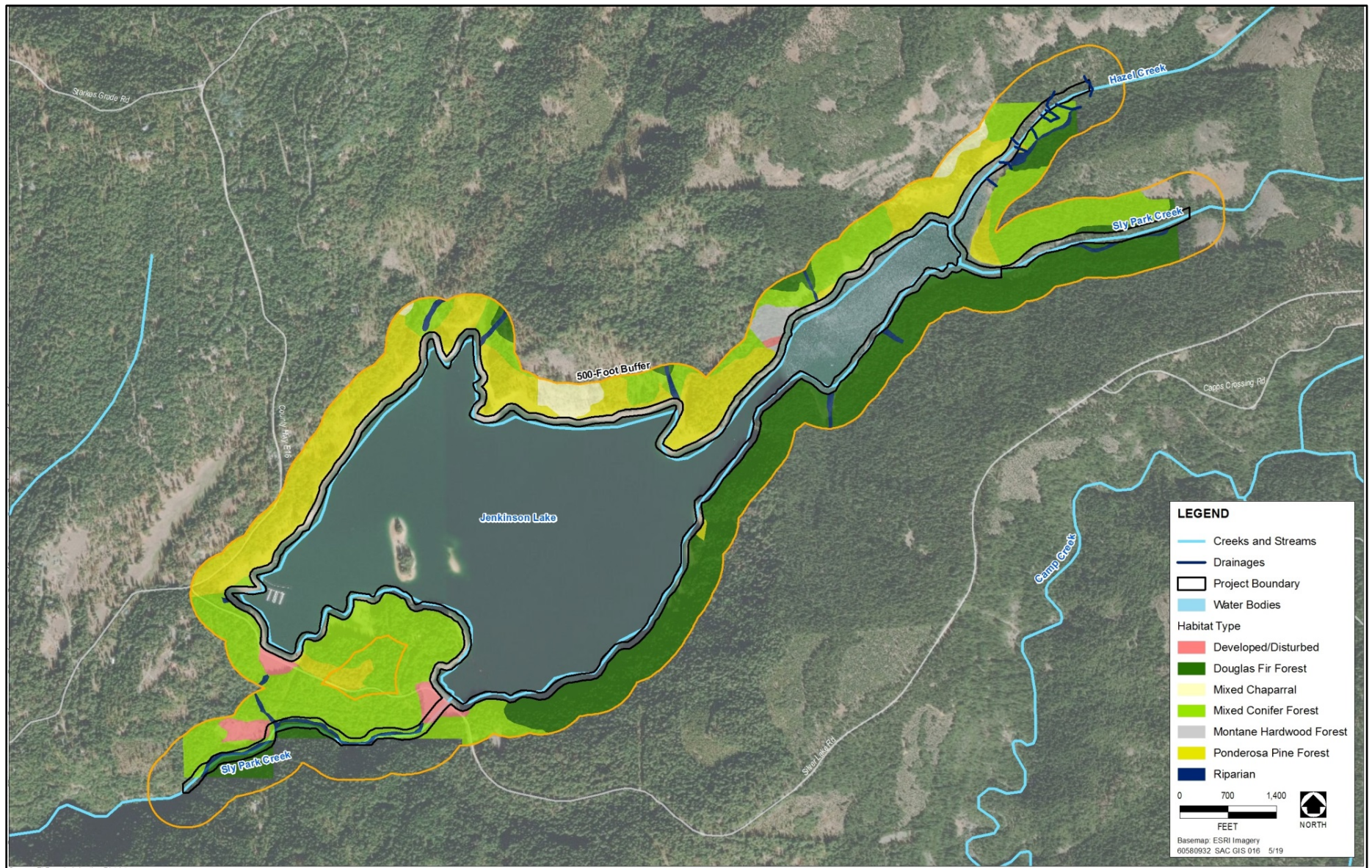
Montane hardwood/conifer (mixed conifer) forest is present in all project sites and is the most prevalent habitat type mapped in the study area, encompassing 398 acres (80 acres in Weber Reservoir; 211 acres in SPRA; 40.5 acres in Camp 5; and 16.6 acres in Flume 46). This habitat is a transitional vegetation community between dense coniferous forest and montane hardwood or mixed chaparral and includes both hardwood and conifer trees in approximately equal proportions (CDFW 2019a). In the study area, the mixed conifer forest is co-dominated by ponderosa pine (*Pinus ponderosa*), Douglas fir (*Pseudotsuga menziesii*), incense cedar (*Calocedrus decurrens*), black oak (*Quercus kelloggii*), and canyon live oak. Associate species include bigleaf maple (*Acer macrophyllum*), dogwood (*Cornus* sp.), Pacific madrone (*Arbutus menziesii*), and toyon (*Heteromeles arbutifolia*). Understory vegetation is typically sparse, consisting primarily of California pipevine (*Aristolochia californica*).

The mixed conifer forest stands to the south of the El Dorado Canal in the Camp 5 project site were extensively burned in 2014 during the King Fire (Cal Fire 2014) and are currently in a successional stage of vegetation recovery. Most of the large trees are burned and exist as standing dead snags, although a few oaks are sprouting from trunk bases, while the understory vegetation is thick with small hoary coffeeberry (*Frangula californica* ssp. *tomentella*) shrubs and young incense cedar seedlings. The hoary coffeeberry shrubs in this area appear to be heavily browsed by deer.



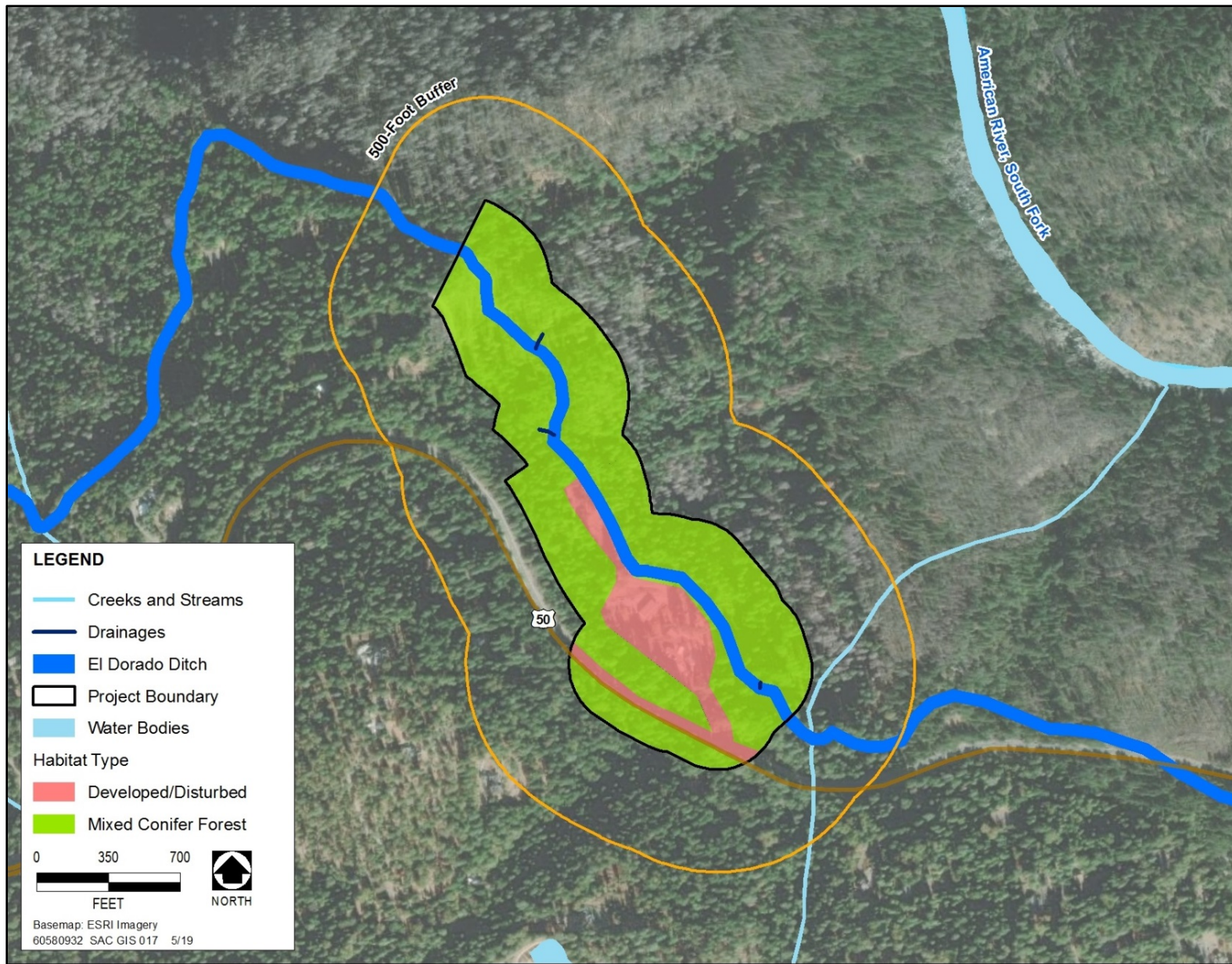
Source: AECOM 2019

Figure 3.4-1. Weber Reservoir Habitat Map



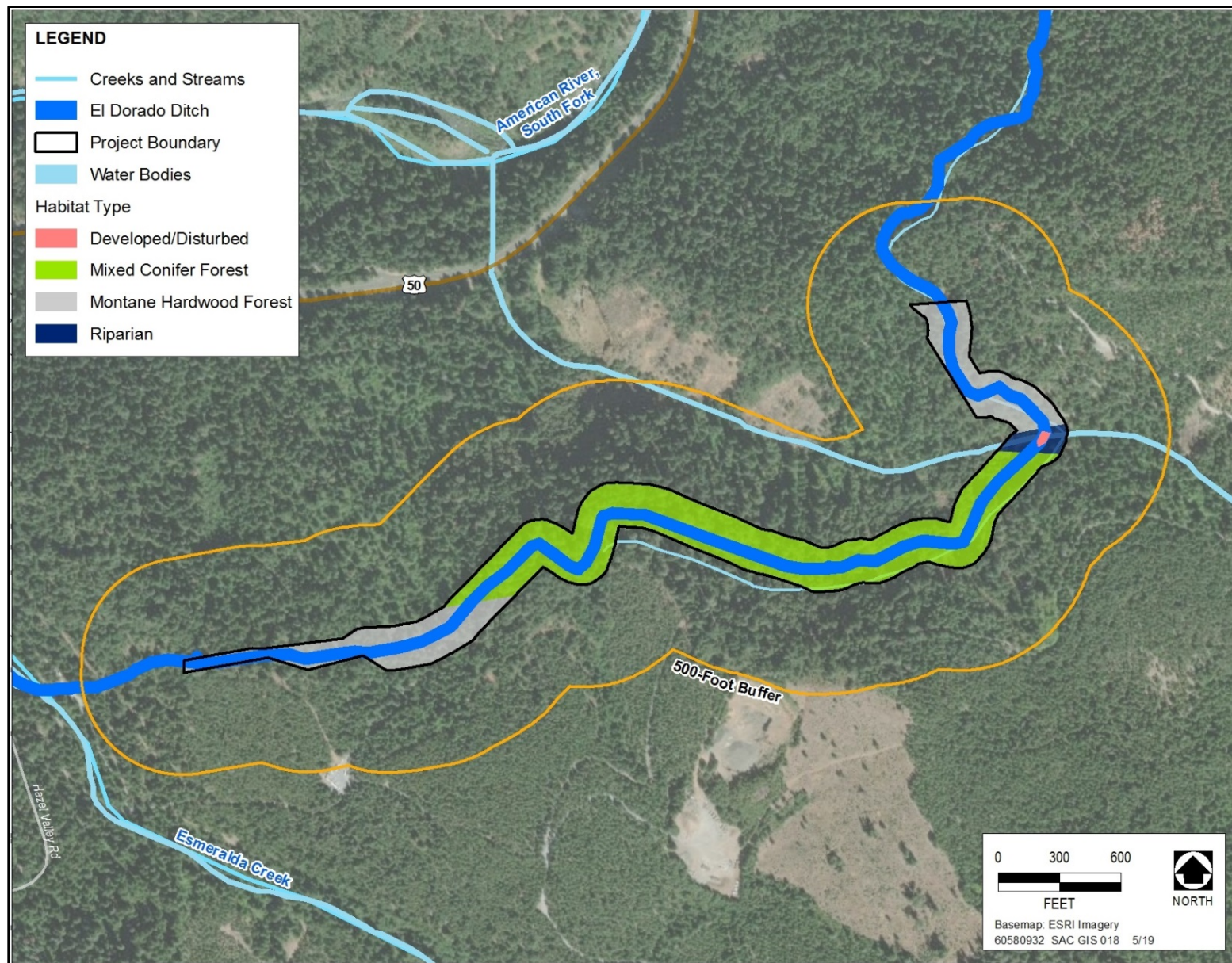
Source: Source: AECOM 2019

Figure 3.4-2. Sly Park Habitat Map



Source: AECOM 2019

Figure 3.4-3. Camp 5 Habitat Map



Source: AECOM 2019

Figure 3.4-4. Flume 46 Habitat Map

High variability in canopy height, cover, and density makes the mixed conifer forest habitat suitable for numerous species of birds and mammals. Notably, mature forests often host valuable habitat for cavity-nesting birds. In addition, many amphibians may be found in the detrital layer.

DOUGLAS FIR FOREST

Approximately 174 acres of Douglas fir forest are located within and adjacent to the Sly Park Recreation Area project site. This habitat is dominated by Douglas fir trees, with common associate species incense cedar, ponderosa pine, and scattered black oak. The understory layer is sparse, composed primarily of mountain misery (*Chamaebatia foliosa*) and sapling trees. Downed woody debris of various sizes and states of decay is common throughout this habitat type. Wildlife species in this habitat are very similar to those found in mixed conifer forest.

PONDEROSA PINE FOREST

The ponderosa pine forest habitat in the study area encompasses 139 acres on the north side of Jenkinson Lake in the Sly Park Recreation Area. The ponderosa pine habitat consists of pure stands of similarly-aged ponderosa pine trees. This area is highly managed with well-spaced trees and no shrub layer. The understory vegetation is composed entirely of a dense carpet of mountain misery. Disturbed areas are common throughout this habitat type, including picnic and campground areas, access roads, trails, turnouts, parking, and staging sites. Wildlife species in ponderosa pine forest are similar to those found in mixed conifer forest habitat; however, due to a lack of understory shrubs, downed woody debris, and older, decayed trees where this habitat occurs in the study area, suitable substrates for nesting, roosting, and protective cover are limited and wildlife use is expected to be lower than in other areas. Ponderosa pine forest can provide transitional or migratory habitat for deer.

3.4.3 METHODS

Before the site visit, AECOM biologists searched the following sources for records of special-status plants and wildlife occurring within the Camino (Weber Reservoir), Sly Park (SPRA), Pollock Pines (Camp 5), Riverton (Flume 46), and fourteen surrounding USGS 7.5 minute quadrangles: California Native Plant Society (CNPS 2019), California Natural Diversity Database (CDFW 2019b), the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Conservation project planning tool (USFWS 2019), and the eBird database, managed by Cornell Lab of Ornithology (eBird 2019). In addition to the database searches and federal species lists, information was obtained by reviewing previously prepared environmental documents that address biological resources in the area, including timber harvest plans, and rare plant reports and biological resources analysis prepared for EID flume replacement projects (EID 2009, EID 2011, AECOM 2015, and AECOM 2016).

AECOM biologists Jasmine Greer (botanist) and Vanessa Tucker (wildlife biologist) conducted three field visits on March 14, 2019, March 21, 2019, and April 2, 2019. On March 14, 2019, the biologists surveyed the northern and southern sections of Weber Reservoir. On March 21, 2019, the northern and northeastern sections of the SPRA were surveyed. On April 2, 2019, the biologists conducted their final surveys on Camp 5 and Flume 46. Weather conditions ranged from sunny and overcast to rainy with temperatures ranging from the mid-50s- to high 70° Fahrenheit and winds of 3–5 miles per hour (NOAA 2019).

3.4.4 RESULTS

For the purpose of this analysis, special-status species are plants and animals that fall within any of the following categories:

- ▶ Species that are listed under the federal ESA and/or CESA are rare, threatened, or endangered;
- ▶ Species considered as candidates and proposed for federal or state listing as threatened or endangered;
- ▶ Wildlife designated by CDFW as fully protected and/or species of special concern;
- ▶ Birds protected under the MBTA;
- ▶ Bats designated by the Western Bat Working Group (WBWG) as high (red) or medium (yellow) priority; or
- ▶ Plants ranked by CNPS to be rare, threatened, or endangered in California. CDFW recommends, and local governments may require, that CEQA reviews of proposed projects address plants on Lists 1A, 1B, and 2 of the CNPS California Rare Plant Ranks (CRPRs), defined as follows:
 - List 1A—Plants presumed to be extinct in California
 - List 1B—Plant species considered rare, threatened, or endangered in California and elsewhere
 - List 2—Plant species considered rare, threatened, or endangered in California but more common elsewhere
- ▶ Each CRPR category may include an extension indicating the level of endangerment in California:
 - 1—Seriously endangered in California (more than 80 percent of occurrences are threatened and/or high degree and immediacy of threat)
 - 2—Fairly endangered in California (20–80 percent of occurrences are threatened)
 - 3—Not very endangered in California

Tables 3.4-1 and 3.4-2 provide a list of special-status plant and wildlife species, respectively, with potential to occur on the project site based on the pre-field investigation (database and literature review). The following criteria were applied to assess the potential for species occurrence at the project site:

- ▶ **Known to Occur:** The project site is within the species' range, suitable habitat for the species is present, and the species has been recorded from within the project site.
- ▶ **Could Occur:** The project site is within the species' range, and no occurrences of the species have been recorded within the project site; however, suitable habitat for the species is present and recorded occurrences of the species are generally present in the vicinity.
- ▶ **Low Potential to Occur:** The species was identified during literature review as potentially occurring near the project site and habitat for the species is marginal or potentially suitable habitat may occur, but there are no records of species occurrence within the project site or its vicinity.
- ▶ **Not Likely to Occur:** No occurrences of the species have been recorded within or immediately adjacent to the project site, and either habitat for the species is marginal or potentially suitable habitat may occur, but the species' current known range is restricted to areas far from the project site.
- ▶ **No Potential to Occur:** The project site is outside the species' range or suitable habitat for the species is absent from the project site and adjacent areas.

Table 3.4-1. Special-status Plant Species Identified as Occurring in the Project Region and Discussion of their Potential to Occur in the Biological Study Area - El Dorado Irrigation District CalFire Vegetation Treatment at Camp 5, Flume 46, Sly Park Recreation Area (SPRA), and Weber Reservoir - El Dorado County, California

Scientific Name	Common Name	Regulatory Status ¹			Habitat Requirements and Distribution	Elevation Range (feet above MSL) ²	Blooming Period	Potential for Occurrence ³
		Federal	State	CRPR				
<i>Allium jepsonii</i>	Jepson's onion	-	-	1B.2	On volcanic soil on Table Mountain, and on serpentine soils in Sierra foothills. On slopes and flats; usually in an open area in chaparral, cismontane woodland, lower montane coniferous forest. Endemic to California; known from Butte, El Dorado, Placer, and Tuolumne counties.	1,160 to 4,331	Apr – Aug	No potential; no suitable habitat (serpentine soils) present.
<i>Allium tribracteatum</i>	three-bracted onion	-	-	1B.2	Volcanic slopes and ridges in chaparral, lower and upper montane coniferous forest. Endemic to California; known from Alpine, Amador, Calaveras, El Dorado, and Tuolumne counties.	3,608 to 9,843	Apr – Aug	Could occur; suitable habitat (volcanic soils) occur at Weber Reservoir and SPRA sites.
<i>Arctostaphylos nissenana</i>	Nissenan manzanita	-	-	1B.2	Open, rocky shale ridges in closed-cone coniferous forest and chaparral. Endemic to California; known from El Dorado and Tuolumne counties.	1,476 to 3,608	Feb – Mar (Jun)	No potential; no suitable habitat (shale ridges) present.
<i>Botrychium ascendens</i>	Upswept moonwort	-	-	2B.3	Lower montane coniferous forest, meadows and seeps; grassy fields, coniferous woods near springs and creeks. Known from high elevation sites throughout Cascade and Sierra Nevada mountain ranges, and also occurs outside of California.	7,000 to 11,000	July – Aug	No potential; elevation range is outside of the project site.
<i>Botrychium crenulatum</i>	Scalloped Moonwort	-	-	2B.2	Moist meadows, freshwater marsh, and near creeks in lower montane coniferous forest to upper montane coniferous forest. Distribution is scattered in California and also occurs outside of California.	4,950 to 10,800	June – Sept	No potential; elevation range is outside of the project site.

Table 3.4-1. Special-status Plant Species Identified as Occurring in the Project Region and Discussion of their Potential to Occur in the Biological Study Area - El Dorado Irrigation District CalFire Vegetation Treatment at Camp 5, Flume 46, Sly Park Recreation Area (SPRA), and Weber Reservoir - El Dorado County, California

Scientific Name	Common Name	Regulatory Status ¹			Habitat Requirements and Distribution	Elevation Range (feet above MSL) ²	Blooming Period	Potential for Occurrence ³
		Federal	State	CRPR				
<i>Botrychium lunaria</i>	common moonwort	-	-	2B.3	Meadows and seeps, subalpine coniferous forest, upper montane coniferous forest. In California, known from Mono, Modoc, Nevada, Tulare, and Tuolumne Counties.	6,495 to 11,155	Aug	No potential; elevation range is outside of the project site.
<i>Botrychium minganense</i>	Mingan moonwort	-	-	2B.2	Creek banks in mixed conifer forest. Distribution in California is in the high Cascade and Sierra Nevada and Warner Mountains; also found outside of California.	4,700 to 7,000	July – Sept	No potential; elevation range is outside of the project site.
<i>Botrychium montanum</i>	Western goblin	-	-	2B.1	Creek banks in old growth forest in lower and upper montane coniferous forest. Distribution in California is in the high Cascade and Sierra Nevada and Warner Mountains; also found outside of California.	4,806 to 7,152	July – Sept	No potential; elevation range is outside of the project site.
<i>Botrychium paradoxum</i>	Paradox moonwort	-	-	2B.1	Alpine boulder and rock field (limestone and marble), moist sites in upper montane coniferous forest. Known from El Dorado, Madera, and Tuolumne counties. Also occurs outside of California.	5,700 to 13,779	Aug	No potential; elevation range is outside of the project site.
<i>Botrychium pedunculatum</i>	stalked moonwort	-	-	2B.1	Granitic, volcanic, and andesitic sites in meadows and seeps, upper montane coniferous forest throughout the northwestern U.S., including Alaska. In California, only known from Tuolumne County.	Unknown	Aug	Could occur; suitable habitat (volcanic soils) are present in the Weber Reservoir and SPRA project sites.

Table 3.4-1. Special-status Plant Species Identified as Occurring in the Project Region and Discussion of their Potential to Occur in the Biological Study Area - El Dorado Irrigation District CalFire Vegetation Treatment at Camp 5, Flume 46, Sly Park Recreation Area (SPRA), and Weber Reservoir - El Dorado County, California

Scientific Name	Common Name	Regulatory Status ¹			Habitat Requirements and Distribution	Elevation Range (feet above MSL) ²	Blooming Period	Potential for Occurrence ³
		Federal	State	CRPR				
<i>Calochortus clavatus</i> var. <i>avius</i>	Pleasant Valley mariposa lily	-	-	1B.2	Open oak and pine forest habitats on Josephine silt loam and volcanic soils; often in rocky areas. Endemic to California, where it is only known from Amador, El Dorado and possibly Mariposa counties.	915 to 5,400	May – July	Likely to occur; suitable habitat (volcanic soils in oak & pine forest) present in Weber Reservoir and SPRA project sites. Several records within 5 miles of the study area, in open areas amongst mixed conifer and montane hardwood forest habitats (CDFW 2019).
<i>Calystegia stebbinsii</i>	Stebbin’s morning-glory	FE	CE	1B.1	Open areas in chaparral, cismontane woodland. Usually on ultramafic/red clay soils of the Pine Hill formation; gabbro or serpentine. Endemic to California, where it is only known from El Dorado and Nevada Counties.	984 to 2,313	Apr – Jul	No potential; no suitable habitat (serpentine or gabbro soils) present.
<i>Calystegia vanzuukiae</i>	Van Zuuk’s morning-glory	-	-	1B.3	Ultramafic sites in chaparral, cismontane woodland. Gabbro, serpentine soils. Endemic to California, where it is only known from El Dorado and Placer Counties.	2,296 to 3,806	May – Aug	No potential; no suitable habitat (serpentine or gabbro soils) present.
<i>Carex cyrtostachya</i>	Sierra arching sedge	-	-	1B.2	Mesic sites in lower montane coniferous forest, riparian forest, marshes and swamps, meadows and seeps. Endemic to California, where it is only known from Butte, El Dorado, and Yuba Counties.	1,984 to 4,561	May – Aug	Could occur; suitable habitat (mesic sites, riparian forest) present along creeks, drainages, and lake edges in Weber Reservoir and SPRA project sites; suitable habitat also present in north-facing upper slopes that border the canal and flume in the Camp 5 and Flume 46 project sites, respectively.

Table 3.4-1. Special-status Plant Species Identified as Occurring in the Project Region and Discussion of their Potential to Occur in the Biological Study Area - El Dorado Irrigation District CalFire Vegetation Treatment at Camp 5, Flume 46, Sly Park Recreation Area (SPRA), and Weber Reservoir - El Dorado County, California

Scientific Name	Common Name	Regulatory Status ¹			Habitat Requirements and Distribution	Elevation Range (feet above MSL) ²	Blooming Period	Potential for Occurrence ³
		Federal	State	CRPR				
<i>Carex davyi</i>	Davy's sedge	-	-	1B.3	Dry, rocky sites or sparse meadows within subalpine or upper montane coniferous forest. Occurs in high northern and central Sierra Nevada mountains, and also occurs outside of California.	4,920 to 10,500	May – Aug	No potential; the project area is below the lower elevation limit of this species.
<i>Carex limosa</i>	mud sedge	-	-	2B.2	Floating bogs, soggy meadows, lake edges, marshes and swamps, in lower and upper montane coniferous forest. In California, known from Klamath Range, high Cascade Range, high Sierra Nevada, and Warner Mountains.	3,935 to 8,860	June – Aug	No potential; suitable habitats in project area (lake edges in lower montane coniferous forest) are below elevational range of species.
<i>Carex xerophila</i>	chaparral sedge	-	-	1B.2	Serpentine, gabbroic soils in chaparral, cismontane woodland, lower montane coniferous forest. Endemic to California, where it is found in Butte, El Dorado, Nevada, and Yuba Counties.	902 to 2,527	Mar – Jun	No potential; no suitable habitat (serpentine or gabbro soils) present.
<i>Ceanothus roderickii</i>	Pine Hill ceanothus	FE	CR	1B.1	Ultramafic soils in chaparral, cismontane woodland. Gabbroic or serpentine soils, often in historically disturbed areas. Endemic to California, where it is only found in El Dorado County.	853 to 2,067	Apr – Jun	No potential; project area is at upper elevation limit for this species, and no suitable habitat (serpentine or gabbro soils) present.
<i>Chlorogalum grandiflorum</i>	Red Hills soaproot	-	-	1B.2	Occurs frequently on serpentine or gabbro, but also on non-ultramafic substrates in cismontane woodland, chaparral, lower montane coniferous forest; often on "historically disturbed" sites. Endemic to California, where it is found in Amador, Butte, Calaveras, El Dorado, Placer, and Tuolumne Counties.	869 to 5,562	May – Jun	Likely to occur; suitable habitat, including previously disturbed sites, present in all project sites. There is one record of this species 2.5 miles northwest of the Camp 5 project site, in mixed chaparral and conifer forest burned by the King Fire (CDFW 2019). Over 16,000 plants were found at this location in 2016.

Table 3.4-1. Special-status Plant Species Identified as Occurring in the Project Region and Discussion of their Potential to Occur in the Biological Study Area - El Dorado Irrigation District CalFire Vegetation Treatment at Camp 5, Flume 46, Sly Park Recreation Area (SPRA), and Weber Reservoir - El Dorado County, California

Scientific Name	Common Name	Regulatory Status ¹			Habitat Requirements and Distribution	Elevation Range (feet above MSL) ²	Blooming Period	Potential for Occurrence ³
		Federal	State	CRPR				
<i>Fremontodendron decumbens</i>	Pine Hill flannelbush	FE	CR	1B.2	Rocky ridges in chaparral, cismontane woodland; gabbro or serpentine soils, often among rocks and boulders. Endemic to California, where it is found in El Dorado, Nevada, and Yuba Counties.	1,394 to 2,527	Apr – Jul	No potential; no suitable habitat (serpentine or gabbro soils) present.
<i>Galium californicum</i> ssp. <i>sierrae</i>	El Dorado bedstraw	FE	CR	1B.2	Pine-oak woodland or chaparral. Restricted to gabbroic or serpentine soils. Endemic to California, where it is only found in El Dorado County.	426 to 1,920	May – Jun	No potential; no suitable habitat (serpentine or gabbro soils) present.
<i>Helodium blandowii</i>	Blandow’s bog moss	-	-	2B.3	Damp soil in meadows and seeps, subalpine coniferous forest. In California, found in the Sierra Nevada mountain range. Also occurs outside of California.	6,108 to 8,860	N/A	No potential; project area is outside the elevation range of this species.
<i>Horkelia parryi</i>	Parry’s horkelia	-	-	1B.2	Openings on clay soils of the Ione Formation and other clay soils in chaparral or foothill woodland communities. Known from Amador, Calaveras, El Dorado, and Mariposa counties. Especially known from the Ione formation in Amador County.	262 to 3,510	Apr – Sep	No potential; no suitable habitat (clay soils) present.
<i>Juncus digitatus</i>	Finger rush	-	-	1B.1	Vernal pools, swales, and volcanic seeps (wetlands) in cismontane woodland and lower montane coniferous forest. Endemic to California, with records from Nevada and Shasta Counties.	2,130 to 2,625	(Apr) May – June	Could occur; there are currently no records of this species in El Dorado County; however, species was recently tentatively identified as occurring on lands adjacent to the SPRA project site (EID, pers. comm. June 2019). Suitable wetland habitat (volcanic seeps) may be present in project sites but will be avoided by project activities.

Table 3.4-1. Special-status Plant Species Identified as Occurring in the Project Region and Discussion of their Potential to Occur in the Biological Study Area - El Dorado Irrigation District CalFire Vegetation Treatment at Camp 5, Flume 46, Sly Park Recreation Area (SPRA), and Weber Reservoir - El Dorado County, California

Scientific Name	Common Name	Regulatory Status ¹			Habitat Requirements and Distribution	Elevation Range (feet above MSL) ²	Blooming Period	Potential for Occurrence ³
		Federal	State	CRPR				
<i>Lewisia longipetala</i>	long-petaled lewisia	-	-	1B.3	Granitic sites in alpine boulder and rock fields, and mesic, rocky sites in subalpine coniferous forest. Endemic to California, where it is found in El Dorado, Nevada, and Placer Counties.	8,202 to 9,597	Jul – Aug (Sep)	No potential; project area is outside the elevation range of this species.
<i>Lewisia serrata</i>	Saw-toothed lewisia	-	-	1B.1	North-facing, mostly shaded, moss-covered and metamorphic rock cliffs and ledges in steep gorges along relatively permanent streams in broadleaved upland forest, lower montane coniferous forest, riparian forest. Known from El Dorado and Placer counties.	2,526 to 4,708	May – June	No potential; no suitable habitat (steep gorges) present.
<i>Meesia uliginosa</i>	broad-nerved hump-moss	-	-	2B.2	Damp soil in bogs and fens, meadows and seeps, in subalpine coniferous forest and upper montane coniferous forest. Scattered in California, primarily in Sierra Nevada and southern Cascade Range.	3,969 to 9,200	Jul, Oct	No potential; no suitable habitat (bogs/fens, meadows, seeps) present.
<i>Monardella linoides</i> ssp. <i>oblonga</i>	Tehachapi monardella	-	-	1B.3	Lower montane coniferous forest, pinyon and juniper woodland, and upper montane coniferous forest. Endemic to California where it is found in the southern Sierra Nevada and Tehachapi Mountains.	2,952 to 8,104	(May) Jun – Aug	Not likely to occur; no records in northern Sierra Nevada region, but suitable habitat is present (lower montane coniferous forest).
<i>Ophioglossum pusillum</i>	Northern adder's-tongue	-	-	2B.2	Marshes and swamps; marsh edges, low pastures, and grassy roadside ditches. Known from only four occurrences in Siskyou, Mendocino, Lake, and El Dorado counties in California.	3,280 to 6,561	July	Could occur; suitable habitat (grassy roadside ditches) present in the Weber Reservoir and SPRA project sites.
<i>Packera layneae</i>	Layne's ragwort	FT	CR	1B.2	Ultramafic soil (serpentine or gabbro), occasionally along streams, in chaparral and cismontane woodland. Endemic to California, where it occurs in foothills of central Sierra Nevada.	672 to 3,478	Apr – Aug	No potential; no suitable habitat (serpentine or gabbro soils) present.

Table 3.4-1. Special-status Plant Species Identified as Occurring in the Project Region and Discussion of their Potential to Occur in the Biological Study Area - El Dorado Irrigation District CalFire Vegetation Treatment at Camp 5, Flume 46, Sly Park Recreation Area (SPRA), and Weber Reservoir - El Dorado County, California

Scientific Name	Common Name	Regulatory Status ¹			Habitat Requirements and Distribution	Elevation Range (feet above MSL) ²	Blooming Period	Potential for Occurrence ³
		Federal	State	CRPR				
<i>Phacelia stebbinsii</i>	Stebbins' phacelia	-	-	1B.2	Shady, moss-covered metamorphic rock outcrops or meadows with rocky or gravelly soil in lower montane coniferous forest, cismontane woodland, meadows and seeps. Known from El Dorado, Placer, and Nevada counties.	1,800 to 6,000	May – July	Likely to occur; suitable habitat (moss-covered granite outcrops) present along north-facing slopes in Camp 5 and Flume 46 project sites. There is one record of this species within 5 miles to the north, located on metamorphic rock outcrops in montane hardwood forest habitat (CDFW 2019).
<i>Poa sierrae</i>	Sierra blue grass	-	-	1B.3	Shady north-facing, often moist, rocky slopes in lower montane coniferous forest; often in canyons. Endemic to California where it is found in the northern and central high Sierra Nevada and Sierra Nevada foothills.	1,197 to 6,283	May – Aug	Could occur; suitable habitat (shady north-facing slopes) present in all project sites.
<i>Rhynchospora capitellata</i>	brownish-beaked rush	-	-	2B.2	Marshes and swamps, meadows and seeps, in lower and upper montane coniferous forest; mesic sites. Widely distributed; in California, occurs in the northern Sierra Nevada and southern Cascade Ranges.	147 to 5,611	May – Jun	Could occur; suitable habitat (mesic sites) present in areas associated with perennial drainages, creeks, and lake edges in the Weber Reservoir, SPRA, and Flume 46 project sites.
<i>Viburnum ellipticum</i>	oval-leaved viburnum	-	-	2B.3	Generally north-facing slopes in chaparral, cismontane woodland, and lower montane coniferous forest. In California, widely distributed in northern and central Sierra Nevada foothills, San Francisco Bay area, North Coast region, and Klamath Ranges.	705 to 4,594	May – Jun	Likely to occur; suitable habitat (north-facing slopes in chaparral, woodland, and coniferous forest) present at all project sites. There is one record of this species 5 miles to the west of Weber Reservoir (CDFW 2019).

Table 3.4-1. Special-status Plant Species Identified as Occurring in the Project Region and Discussion of their Potential to Occur in the Biological Study Area - El Dorado Irrigation District CalFire Vegetation Treatment at Camp 5, Flume 46, Sly Park Recreation Area (SPRA), and Weber Reservoir - El Dorado County, California

Scientific Name	Common Name	Regulatory Status ¹			Habitat Requirements and Distribution	Elevation Range (feet above MSL) ²	Blooming Period	Potential for Occurrence ³
		Federal	State	CRPR				
<i>Wyethia reticulata</i>	El Dorado County mule's ears	-	-	1B.2	Chaparral, cismontane woodland, lower montane coniferous forest; stony red clay and gabbroic soils; often in openings in gabbro chaparral. Endemic to California, where it is only found in El Dorado County.	393 to 2,067	Apr – Aug	No potential; no suitable habitat (gabbro or stony red clay soils) present.

¹ **Regulatory Status:**

Federal Status Categories:
 FE = Listed as endangered under Federal Endangered Species Act
 FT = Listed as threatened under Federal Endangered Species Act

California State Status Categories:
 CE = Listed as endangered under California Endangered Species Act
 CR = Listed as rare under California Endangered Species Act

California Rare Plant Rank (CRPR) Categories:
^{1B} Plant species considered rare or endangered in California and elsewhere (protected under CEQA, but not legally protected under ESA or CESA)
^{2B} Plant species considered rare or endangered in California but more common elsewhere (protected under CEQA, but not legally protected under ESA or CESA)

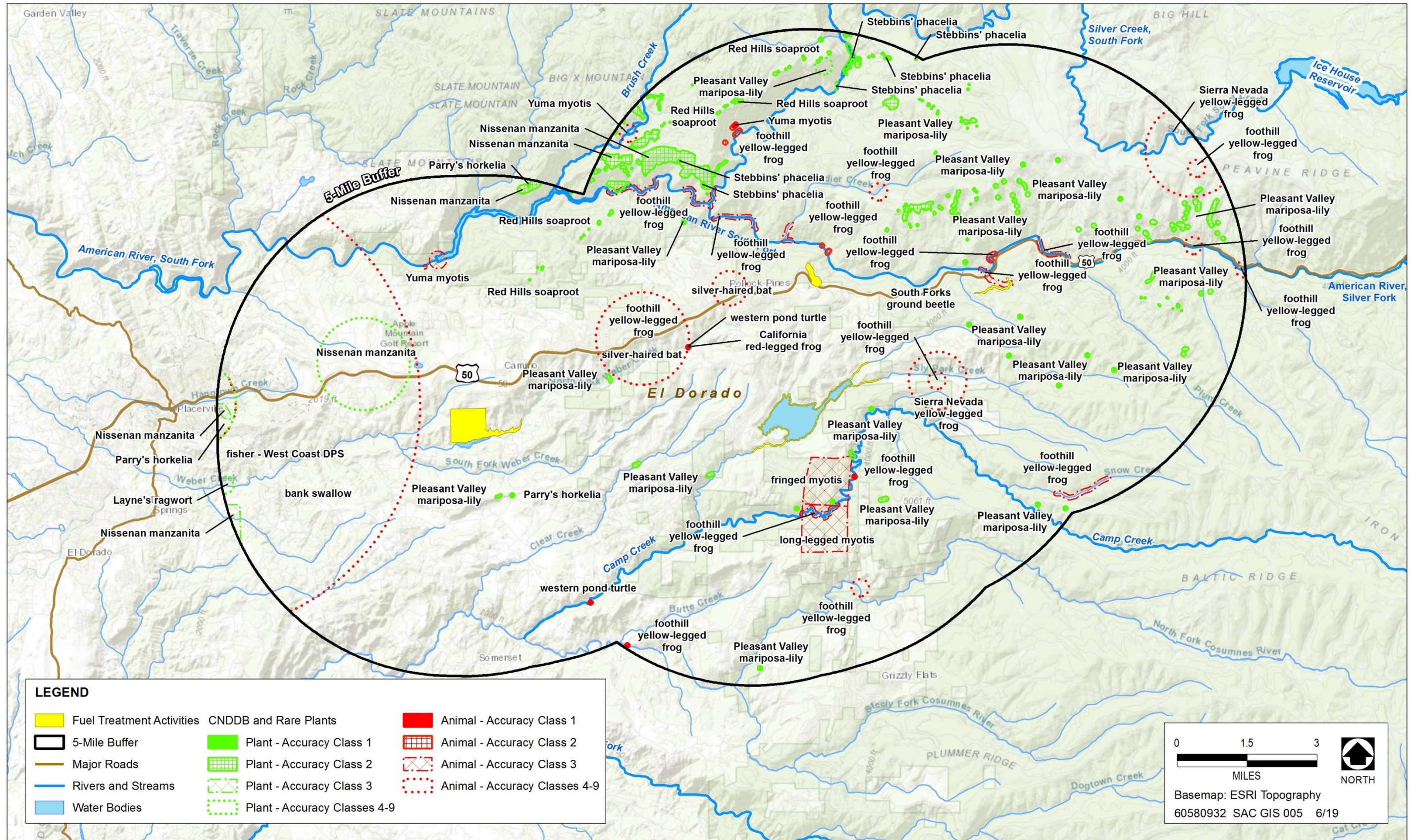
CRPR Threat Rank Extensions:
^{.1} Seriously endangered in California (>80% of occurrences are threatened and/or high degree and immediacy of threat)
^{.2} Fairly endangered in California (20 to 80% of occurrences are threatened)
^{.3} Not very threatened in California (less than 20% of occurrences threatened/low degree and immediacy of threat or no current threats known)

² **MSL** = mean sea level

³ **Potential for Occurrence:**

Known to Occur: The project site is within the species' range, suitable habitat for the species is present, and the species has been recorded from within the project site.
Could Occur: The project site is within the species' range, and no occurrences of the species have been recorded within the project site; however, suitable habitat for the species is present and recorded occurrences of the species are generally present in the vicinity.
Not Likely to Occur: No occurrences of the species have been recorded within or immediately adjacent to the project site, and either habitat for the species is marginal or potentially suitable habitat may occur, but the species' current known range is restricted to areas far from the project site.
No Potential to Occur: The project site is outside the species' elevational range or suitable habitat for the species is absent from the project site and adjacent areas.

Sources: CDFW 2019, CNPS 2019, USFS 2013, Baldwin et al. 2012



Source: CDFW 2019

Figure 3.4-5. Special Status Plant and Wildlife Species Records within 5 Miles of Project Sites

This page intentionally left blank

SPECIAL-STATUS PLANT SPECIES

No special-status plant species were found on the project site during the reconnaissance surveys. The database searches identified above resulted in 35 special-status plant species being evaluated for their potential to occur in the proposed project sites or vicinity (Table 3.4-1). Of these, 23 species have no potential to occur because of a lack of suitable habitat or the project sites are outside the known elevation range of the species. The remaining 12 species have some potential to occur at the project sites. Of these, Tehachapi monardella (*Monardella linoides* ssp. *oblonga*) is considered not likely to occur; no occurrences of Tehachapi monardella have been recorded near the project site, and even though potentially suitable habitat may occur, the species' current known range is restricted to areas far from the project site.

There are occurrence records of 6 special-status plant species within 5 miles of the project sites (CDFW 2019) (Exhibit 3.4-5). Of these, 4 species are considered likely occur: Pleasant Valley mariposa lily (*Calochortus clavatus* var. *avius*), oval-leaved viburnum (*Viburnum ellipticum*), Red Hills soaproot (*Chlorogalum grandiflorum*), and Stebbins phacelia (*Phacelia stebbinsii*) (Exhibit 3.4-5). The other special-status plants depicted on Exhibit 3.4-5 have no potential to occur due to lack of habitat (e.g., clay soils, shale ridges, serpentine soils, decomposed granite soils).

SPECIAL-STATUS WILDLIFE SPECIES

Wildlife surveys were conducted to evaluate the potential for occurrence of special-status wildlife species at or near the study area, with additional survey areas for particular species within appropriate buffer distances. An evaluation of habitat for tree-roosting bat species (e.g., snags, large trees, trees with cavities or flaking bark, leafy trees) was conducted where trees would need to be removed, approximately 10 feet uphill and 40 feet downhill of the flumes and staging, and access areas. The biologist also surveyed the forest canopy and trees at and within 200 feet of the project site boundaries to search for suitable raptor and passerine nesting sites and for evidence of recent nesting activity. Habitat for special-status amphibians and reptiles was surveyed by visually scanning the water features that cross the study area for appropriate water depth and flow rate, substrate along the bottom of the water features, bank structure, and vegetation in the water features and along the banks. Habitat for meso-carnivores was focused on an assessment of potential burrow or denning habitat at and within 200 feet of the project site.

Twelve special-status wildlife species have a *low potential to occur* within or near the project site; Southern long-toed salamander (*Ambystoma macrodactylum sigillatum*), California red-legged frog (*Rana draytonii*), foothill yellow-legged frog (*Rana boylei*), Western pond turtle (*Emys marmorata*), Northern goshawk (*Accipiter gentilis*), California spotted owl (*Strix occidentalis, occidentalis*), sharp-shinned hawk (*Accipiter striatus*), Sierra Nevada mountain beaver (*Aplodontia rufa californica*), hoary bat (*Lasiurus cinereus*), silver-haired bat (*Lasionycteris noctivagans*), fringed myotis (*Myotis thysanodes*), and long-legged myotis (*Myotis Volans*). One special-status species is *known to occur* at the Sly Park Recreation Area project site; bald eagle (*Haliaeetus leucocephalus*).

SPECIAL-STATUS MAMMALS

No special-status mammals were observed during the field visits. The Sierra mountain beaver is patchily distributed throughout the Sierra Nevada mountain range; no observations of the species have been recorded within the project sites. However, suitable habitat such as a moist dense riparian understory with deep friable soils for extensive burrowing is found throughout the project site (Camp 1918).

SPECIAL-STATUS RAPTORS

No special-status raptors were observed during the field visits. Only four raptor species, Northern goshawk, sharp-shinned hawk, California spotted owl, and bald eagle have the potential to occur within the project sites. Of the special-status species that may nest in the project area and could be affected by the project, the bald eagle is the one that is known to occur and nest within the project boundaries. This species is most often found nesting in tall conifers or cliff faces near water bodies, where they will hunt for prey, but will readily fly through and forage within more open or shrub/scrub-dominated areas between patches of woodland. A pair of bald eagles has been documented to be nesting in the Sly Park Recreation Area, Jenkinson Lake portion of the project (eBIRD 2019).

Northern goshawk, sharp-shinned hawk, and California spotted owl also have the potential to occur within the project boundaries. Although these species were not observed during the three field visits; recent observations of these species within project boundaries make it likely that these raptors actively use the project sites as foraging, roosting, and nesting habitat (eBIRD 2019). Owl species were not expected to be observed during the field visits due to their nocturnal nature. All four project site; SPRA, Weber Reservoir, Flume 46, and Camp 5 provide adequate canopy cover, abundant rodent prey, and habitat diversity for California spotted owls to be potentially within the project boundaries.

SPECIAL-STATUS AMPHIBIANS AND REPTILES

No special status reptiles or amphibians were observed during the three site visits. The western pond turtle, California red-legged frog, Southern long-toed salamander, foothill yellow-legged frog have low potential to occur in Jenkinson Lake or Weber Reservoir, and in Ogilby Creek that flows under Flume 46, although the presence of bullfrogs and/or predatory fish typically excludes the presence of special-status frogs in Jenkinson Lake or Weber Reservoir (CDFW 2019).

SPECIAL-STATUS BATS

The project site overlaps with the ranges of four bat species of conservation concern: silver-haired bat (*Lasionycteris noctivagans*), hoary bat (*Lasionycteris cinereus*), long-legged myotis (*Myotis volans*), and fringed myotis (*Myotis thysanodes*). The hoary bat, fringed myotis, and long-legged myotis have been ranked as highest priority (H) for funding, planning, and conservation actions by the Western Bat Working Group. The silver-haired bat has been designated as medium priority (M); lack of information is a major obstacle in adequately assessing the status of the species by the Western Bat Working Group. A fifth bat species, Mexican free-tailed bat (*Tadarida brasiliensis*), is a common and abundant species that also roosts and moves through the region in large numbers.

All of these species roost in trees, structures, caves, and rock features. No roosting bats were observed during the site visits; however suitable roosting and foraging habitat exists surrounding Weber Reservoir, SPRA, Flume 46. And Camp 5. Potential exists for any of these bat species to move through the project site and use the large pines, rock formations, etc. as roosting habitat. The larger lakes and reservoirs; Jenkinson Lake and Weber Reservoir also provide adequate space for foraging.

Table 3.4-2. Special-Status Animal Species Known or with Potential to Occur in the Project Region and their Potential for Occurrence on the Project Site

Species	Regulatory Status ¹		Habitat	Potential for Occurrence
	Federal	State		
<i>Fish</i>				
Delta smelt <i>Hypomesus transpacificus</i>	FT	–	Inhabits open waters of bays, tidal rivers, channels, and sloughs; rarely occurs in water with salinity of more than 10–12 ppt; when not spawning, found where salt water and freshwater mix; typically spawns upstream, but some spawning events have been documented in estuaries.	No potential to occur. This species range is outside of the project area and has not been documented within the project.
<i>Amphibians and Reptiles</i>				
Southern long-toed salamander <i>Ambystoma macrodactylum sigillatum</i>	–	SSC	Occurs from 0 to 9,200 feet amsl, from Tuolumne County in the Sierra Nevada north to Modoc and Lassen counties in the Cascade Range. Breeds in temporary ponds (approximately 12 inches deep or less) formed from rain and snowmelt associated with ponderosa pine, montane-conifer, mixed conifer, montane riparian, red fir, and wet meadows. Populations at higher elevations may require year-round water and develop more slowly. Adult life is mostly subterranean in burrows, rock cracks, and other structures. Seasonal movements associated with breeding are usually up to 3,300 feet.	Low potential to occur. Potential breeding and upland habitat for the species was observed at SPRA, Camp 5, and Flume 46. This species was not observed within the project sites.
Western pond turtle <i>Emys marmorata</i>	–	SSC	Forages in ponds, marshes, slow-moving streams, sloughs, and irrigation/drainage ditches; nests in nearby uplands with low, sparse vegetation.	Low potential to occur. CNDDDB 1993 occurrence in Camp Creek which is a tributary to Sly Park Creek (within project). CNDDDB 2007 sighting in Spivey Pond, North fork of Weber Creek which drains into Weber Reservoir (within project)
California red-legged frog <i>Rana draytonii</i>	FT	SSC	Occurs throughout California and northern Baja California. Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation. Requires 11 to 20 weeks of permanent water for larval development and must have access to aestivation habitat. Endemic to California and Baja California, at elevations ranging from sea level to 1,524 meters (5,000 feet). Has a distinct aquatic and upland habitat requirement which includes; pools of slow moving streams, perennial or ephemeral ponds and upland sheltering habitats.	Low potential to occur. Potential habitat for CRLF was observed in Weber Reservoir. CNDDDB 2008 occurrence in the North Fork of Weber Creek, upstream of Weber Reservoir, adults and two juveniles were recorded. There is potential for this species to occur at the lower elevation site, Weber Reservoir.

Table 3.4-2. Special-Status Animal Species Known or with Potential to Occur in the Project Region and their Potential for Occurrence on the Project Site

Species	Regulatory Status ¹		Habitat	Potential for Occurrence
	Federal	State		
Foothill yellow-legged frog <i>Rana boylei</i>	–	ST, SSC	Found in most major Pacific-slope Sierra watersheds between upper Sacramento River and the Tehachapi mountains. Streams and rivers with rocky substrate and open, sunny banks, in forests, chaparral, and woodlands from sea level to 6,700 feet. Sometimes found in isolated pools, vegetated backwaters, and deep, shaded, spring-fed pools	Low potential to occur. Suitable habitat for the species is found throughout the project area. CNDDDB occurrences ranging from 1916 to 2017 show 23 entries of foothill yellow-legged frog occurring at the Project site and surrounding areas. Drainages and aquatic habitat occurs at Jenkinson Lake, Weber Reservoir, and Flume 46 but do not provide appropriate cobble substrate or stream gradient. The presence of predatory fish and amphibians such as the American bullfrog (<i>Lithobates catesbeianus</i>) in Weber Reservoir and Jenkinson Lake also likely excludes this species. EID monitoring report from 2016 only detected 1 adult (mortality), 1 juvenile, and 1 egg mass during their surveys (EID 2017a).
Sierra Nevada yellow-legged frog <i>Rana sierra</i>	FE	ST	Prefers sunny riverbanks, meadow streams, isolated pools, and lake borders in high Sierra Nevada. Prefers sloping banks with rocks or vegetation to water's edge. Seldom found more than few feet from water. Also occurs in ponds and low gradient streams with deep pools and undercut banks, generally above 4,500 to 12,000 feet in elevation.	No potential to occur. The project sites do not fall within the species' elevation range. A 2004 CNDDDB occurrence was recorded in Sly Park Creek Dam downstream of Jenkinson Lake. Suitable habitat does occur in the project area; however the nearest recorded occurrence of this species is approximately 20 miles to the east of Flume 46 in Lake Aloha, Camp Harvey tributaries, and the Upper Echo Lake (EID 2017b).
Birds				
Northern goshawk <i>Accipiter gentilis</i>	–	SSC	Permanent resident in the Klamath and Cascade ranges, in the North Coast Ranges from Del Norte County to Mendocino County, and in the Sierra Nevada south to Kern County; winters in Lassen, Modoc, Mono, and northern Inyo counties; rare in Southern California. Nests and roosts in older stands of red fir, Jeffrey pine, and lodgepole pine forests; hunts in forests and in forest clearings and meadows.	Low potential to occur. Two CNDDDB occurrences recorded in 1980 and 1984; One active nest was recorded approximately 7 miles north of the Weber Reservoir and the second occurrence was of an active nest was in 1984, 9 miles southeast of the Jenkinson Lake. Suitable habitat does occur in all project areas. eBIRD has citizen observations recorded as recent as 2016, East of the town of Riverton.

Table 3.4-2. Special-Status Animal Species Known or with Potential to Occur in the Project Region and their Potential for Occurrence on the Project Site

Species	Regulatory Status ¹		Habitat	Potential for Occurrence
	Federal	State		
Sharp-shinned hawk <i>Accipiter striatus</i>	–	WL	Found throughout most of United States, breeds from southern Alaska to central California, Arizona, New Mexico and northern Texas. Individuals’ nests in forest and woodland habitats, and hunts along forest edges.	Low potential to occur. eBIRD 2016 near Weber reservoir, direct sightings in SPRA/Jenkinson Lake.
Tricolored blackbird <i>Agelaius tricolor</i> (nesting colony)	–	ST, SSC	Forages in agricultural lands and grasslands; nests in marshes, riparian scrub, and other areas that support cattails or dense thickets of shrubs or herbs. Requires open water and protected nesting substrate, such as flooded, spiny, or thorny vegetation.	No potential to occur. Suitable habitat for this species was observed within the project area. Last positive observation in the area was in 1976.
Bald eagle <i>Haliaeetus leucocephalus</i> (nesting and wintering)	D	SE, FP	In western North America, nests and roosts in coniferous forests within 1 mile of a lake, reservoir, river, or the ocean.	Known to occur. Known to occur and in SPRA and there are suitable conifers adjacent to project site for an eagle to nest in. This species is known to occur from October until April in the project vicinity.
Bank swallow <i>Riparia riparia</i>	–	ST	The state’s largest remaining breeding populations are along the Sacramento River from Tehama County to Sacramento County, along the Feather and lower American rivers, and in the Owens Valley. Nesting areas also include the plains east of the Cascade Range south through Lassen County, northern Siskiyou County, and small populations near the coast from San Francisco County to Monterey County. Nests in bluffs or banks, usually adjacent to water, where the soil consists of sand or sandy loam to allow digging.	No potential to occur. CNDDB occurrence in 1873. Colony nested in Rough face of a high gravelly hill. No suitable habitat is present within the project sites.
Great gray owl <i>Strix nebulosi</i>	USFS-S	SE	Found throughout Canada, Washington, Oregon, and upper elevation sierras in California. Typically found in pine and fir forests adjacent to montane meadows between 2,500 and 7,500 feet asml. Will often move downslope into oak woodlands and lower elevation mixed forests in California and Oregon.	No potential to occur. Suitable habitat is present within the project sites however; the occurrence of this species is rare within the project sites.
California spotted owl <i>Strix occidentalis occidentalis</i>	-	SCC	Occurs in the southern Cascade Range in northern California, through the Sierra Nevada, across the Transverse and Peninsular Ranges in southern California, and up the Coast Range through Monterey County.	Low potential to occur. Suitable foraging and roosting habitat is present within SPRA, Weber Reservoir, Flume 46, and Camp 5; however no recent observations near the project sites have been recorded.

Table 3.4-2. Special-Status Animal Species Known or with Potential to Occur in the Project Region and their Potential for Occurrence on the Project Site

Species	Regulatory Status ¹		Habitat	Potential for Occurrence
	Federal	State		
<i>Mammals</i>				
Sierra Nevada mountain beaver <i>Aplodontia rufa californica</i>	–	SSC	Occurs in the Sierra Nevada in scattered populations. Locally uncommon. Typically occurs in montane riparian habitat. Requires friable soil for burrowing and a cool and moist microclimate near water. Prefers areas with a dense understory of vegetation for cover.	Low potential to occur. Suitable riparian habitat with permanent water is present at SPRA, Weber Reservoir, Flume 46, and Camp 5. Recent CNDDDB observations in 2011 within 5 miles of the project.
Townsend’s big-eared bat <i>Corynorhinus townsendii</i>	USFS-S	SSC, WBWG-H	Uncommon colonial bat associated with coniferous forests, mixed meso-phytic forests, deserts, agricultural areas, native prairies, riparian communities, and coastal habitat types; individuals typically roost in caves and mines, but also in basal hollows of trees, including redwoods, and human structures (e.g., bridges, buildings).	No potential to occur. Basal hollows of trees are found throughout the project site however no suitable winter roosting or maternity roosting sites were observed.
Hoary bat <i>Lasiurus cinereus</i>	–	WBWG-M	Uncommon, solitary foliage-roosting bat. Most widespread North American bat. Individuals prefer to bear young in woodlands and forests with medium to large-size trees with dense foliage.	Low potential to occur. CNDDDB latest occurrence in 1979, near Grizzly flats. Suitable habitat for the species is present within SPRA, Weber Reservoir, Flume 46, and Camp 5; however not much information is known on the species.
Silver-haired bat <i>Lasionycteris noctivagans</i>	–	WBWG-M	Occurs from southern Alaska to throughout much of the United States. Common colonial bat distributed in coastal and montane forests. Individuals roost in hollow trees, snags, buildings, rock crevices, caves, and under bark. Females congregate in small maternity colonies inside trees.	Low potential to occur. Suitable habitat for the species is found throughout SPRA, Weber Reservoir, Flume 46, and Camp 5; however the nearest occurrence as near Pollock Pines and was recorded in 1990 (CNDDDB 2019).
Fringed myotis <i>Myotis thysanodes</i>	USFS-S	WBWG-H	Uncommon colonial forest/woodland bat that roosts in crevices in buildings, underground mines, rocks, cliff faces, bridges, and large decadent trees and snags. Prefer Oak and pinyon woodlands.	Low potential to occur. CNDDDB 2001 occurrences within a mile Southeast of Jenkinson Lake. Suitable habitat also occurs within SPRA, Weber Reservoir, Flume 46, and Camp 5.
Long-legged myotis <i>Myotis volans</i>	–	WBWG-H	Colonial bat found in coniferous forests at 4,000–9,000 feet in elevation.	Low potential to occur. CNDDDB occurrence from 2001 within a mile of Jenkinson Lake. Suitable habitat for this species occurs within all project sites.
Fisher-West Coast DPS <i>Pekania pennant</i>	USFS-S	ST	The west coast Distinct Population Segment is limited to Washington, Oregon, and California. Require mature strands of coniferous or mixed forest that contain key elements and structural components that provide abundant den sites, rest sites, and preferred prey. Key structural components include; large diameter trees, high canopy closure, large hardwood or conifer trees with cavities, and large down wood.	No potential to occur. CNDDDB occurrence from 1916 where five fishers were killed for their pelts. Species prefers more north coast coniferous forest.

Table 3.4-2. Special-Status Animal Species Known or with Potential to Occur in the Project Region and their Potential for Occurrence on the Project Site

Species	Regulatory Status ¹		Habitat	Potential for Occurrence
	Federal	State		
Sierra Nevada red fox <i>Vulpes vulpes necator</i>	FC	ST	Found in a variety of habitats from wet meadows to forested areas. Use dense vegetation and rocky areas for cover and den sites. Prefer forests interspersed with meadows or alpine fell-fields.	No potential to occur. Rare, only two populations remain; one near Lassen Peak and the second one near Sonora Pass in the Humboldt and Stanislaus national forests.
<p>Notes: CNDDDB = California Natural Diversity Database; amsl = above mean sea level; BSA = Biological Study Area; CNDDDB = California Natural Diversity Database; DPS = Distinct Population Segment; FR = <i>Federal Register</i></p> <p>¹ Legal Status Definitions</p> <p>– = no listing. Delisted = removed from federal or California Endangered Species Act list.</p> <p>Federal</p> <p>FC = federal candidate for listing under the federal Endangered Species Act. FE = listed as endangered under the federal Endangered Species Act. FPT = proposed for listing as threatened under the federal Endangered Species Act. FT = listed as threatened under the federal Endangered Species Act.</p> <p>State</p> <p>SCT = state candidate for listing as threatened under the California Endangered Species Act. SE = listed as endangered under the California Endangered Species Act. SSC = state species of special concern ST = listed as threatened under the California Endangered Species Act.</p> <p>Other</p> <p>USFS-S = Sensitive species identified by the regional forester for which population viability is a concern on National Forest Service (NFS) lands within the region.</p> <p>Western Bat Working Group Priority</p> <p>WBWG (H): Species designated as the highest priority (H) for funding, planning, and conservation actions, by the Western Bat Working Group. WBWG (M): Species designated as medium priority (M); lack of information is a major obstacle in adequately assessing the status of the species. Sources: CDFW 2019; USFWS 2019; eBird 2019; iNaturalist 2019; WBWG 2019; EID 2016a, and EID 2016b.</p>				

SENSITIVE HABITATS

Sensitive habitats are those that are of special concern to resource agencies or are afforded specific consideration through the State CEQA Guidelines, Section 1602 of the California Fish and Game Code, Section 404 of the Clean Water Act, and the state's Porter-Cologne Act. Sensitive habitats may be of special concern to these agencies and conservation organizations for a variety of reasons, including their locally or regionally declining status, or because they provide important habitat to common and special-status species.

Waters of the United States and Other Waters

Natural aquatic features present within the project site include creeks and drainages traversing the study area. Additional manmade aquatic features, such as canals, flumes, and reservoirs are also present. Because the exact location and timing of all project activities is not known at this time, a formal delineation of wetlands and other aquatic features within the study area is not practical and has not been completed. However, to assess the potential regulatory status of the above-mentioned aquatic features USGS quadrangle maps and USFWS National Wetland Inventory data and current and historic Google Earth satellite images of the project site were reviewed in support of the site reconnaissance surveys. Based on this data review and site reconnaissance, several features, including natural and manmade features described above, are potential federal or state jurisdictional waters (including wetlands).

From a regulatory perspective, surface water and its drainage or groundwater, including saline waters, within the boundaries of the state are considered "waters of the state" and are regulated under the Porter Cologne Act and Section 401 of the CWA. Therefore, creeks and seasonal drainages within the study area that have a defined bed and bank are waters of the state. In addition, any manmade aquatic features that retain surface water at any time would also be considered waters of the state (e.g., canals and reservoirs). On the federal side, aquatic areas that also meet the regulatory definition of "waters of the United States" are further regulated under Section 404 of the CWA. While no wetland delineation has been conducted to date within the project site, creeks and reservoirs, at minimum, are assumed to be subject to USACE jurisdiction because of their apparent hydrologic connection to navigable waters downstream. No project activities are proposed within a water body/water course. To avoid potential indirect impacts on aquatic habitat, the project will be conducted in accordance with California Forest Practice Rules (Title 14, California Code of Regulations, Chapters 4, 4.5, and 10) and Watercourse and Lake Protection Zones will be enforced around all watercourses, lakes, channels, flood-prone areas, and riparian zones prior to and continuously during project activity (CAL FIRE 2017) (see Mitigation Measure BIO-5).

Riparian Habitat

During site reconnaissance surveys, riparian habitats were mapped in the study area. Riparian habitats are defined as tree or shrub vegetation that overlap waterways and may be subject to regulation by CDFW under Section 1602 of the California Fish and Game Code. A total of 14 acres of riparian habitat were mapped in the study area along creeks and drainages in the SPRA and Flume 46 project sites. Small patches (i.e., less than 0.1 acre) of riparian habitat were also observed along seasonal drainages in the Weber Reservoir project site.

Sensitive Natural Communities

California natural communities are organized by CDFW and partner organizations, such as CNPS, based on vegetation type classification, and are ranked using the same system to assign global and state rarity ranks for plant and animal species in the CNDDb (CDFW 2018b). CDFW considers natural communities ranked S1–S3 to

be sensitive natural communities, to be addressed in the environmental review processes (CDFW 2019c). Sensitive natural communities are defined as being of limited distribution statewide or within a county or region and often vulnerable to the environmental effects of projects (CDFW 2019c).

A total of seven vegetation communities were mapped on the project site. None of these vegetation communities are considered sensitive natural communities (CDFW 2018b). Therefore, sensitive natural communities are considered absent from the project site.

3.4.5 DISCUSSION

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

No special-status plant or wildlife species were observed on the project site during reconnaissance-level surveys. However, suitable habitat is present on or adjacent to the project site for several special-status plant and wildlife species that occur within the Sierra Nevada foothills.

There are 12 species of special-status plants with potential to occur in the project site. Of these, *Tehachapi monardella* is considered not likely to occur due to range restriction, and 4 species are associated with wetland and riparian habitats that will be avoided by project activities: Sierra arching sedge (*Carex cyrtostachya*), finger rush (*Juncus digitatus*), brownish beaked rush (*Rhynchospora capitellata*), and northern adder's tongue (*Ophioglossum pusillum*). Suitable micro-habitats for the remaining 7 species of special-status plants potentially occurring within the project site include volcanic soils, historically disturbed and previously-burned areas, north-facing slopes, and metamorphic rock outcrops. The volcanic soils of the Weber Reservoir and Sly Park Recreation Area project sites provide suitable substrate for the Pleasant Valley mariposa lily (*Calochortus clavatus* var. *avius*), three-bracted onion (*Allium tribracteatum*), and stalked moonwort (*Botrychium pendunculosum*). A large population of Red Hills soaproot (*Chlorogalum grandiflorum*) was discovered in 2016 approximately 3 miles to the north of the Camp 5 project site, in an area burned by the King Fire, and similar habitat exists within the northern portion of the Camp 5 project site. Red Hills soaproot could also be found in woodland, chaparral, and mixed conifer forest habitats in other project sites, particularly in areas that were historically disturbed. Granitic rock outcrops in the Camp 5 and Flume 46 project sites could provide habitat for Stebbin's phacelia (*Phacelia stebbinsii*). North-facing slopes in chaparral, woodland, and mixed conifer forest, which are common features at all project sites, provide suitable habitat for oval-leaved viburnum (*Viburnum ellipticum*) and Sierra blue grass (*Poa sierrae*). Project activities could result in impacts on populations of special status plants; this impact would be **potentially significant**.

Mitigation Measure BIO-1: Conduct Pre-Construction Surveys for Special-status Plants

Before project implementation, EID will conduct appropriately-timed botanical surveys for all areas of project-related ground disturbance. Floristic surveys will be conducted by a qualified botanist during the species' blooming period in accordance with methods described in CDFW's 2018 *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities* (CDFW 2018).

If no special-status plants are found during surveys, the findings will be documented in a letter report, and no further mitigation would be required.

If special-status plants are found during surveys, locations of special-status plant populations would be completely avoided by clearly identifying avoidance areas in the field by staking or flagging before vegetation removal activities. No project activity would occur in the marked areas.

Implementation of Mitigation Measure BIO-1 would avoid impacts on special-status plant populations and reduce the potentially significant impact to **less than significant** with mitigation.

There are 12 special-status wildlife species with low potential to occur within the project sites. 4 of the 13 species with low potential to occur are associated with riparian habitats or waterbodies and will be avoided: western pond turtle, California red-legged frog, foothill yellow-legged frog, and Sierra Nevada mountain beaver. In accordance with California Forest Practice Rules (Title 14, California Code of Regulations, Chapters 4, 4.5, and 10) (CAL FIRE 2017); buffers for watercourse and lake protection zones will be implemented to avoid potential impacts to these species. For project activities occurring in Sly Park Recreation Area; activities within the California Forest Practice Rules buffers will be limited to hand tools and will not involve the use of heavy equipment. Due to the nature of these project activities the potential impact to these mobile amphibian and reptile species would be **less than significant**.

For the remaining 8 low potential to occur species (five bat species and three bird species) and the one known to occur species, the bald eagle, suitable potential habitat is found in throughout the project sites. This habitat is useful for foraging, dispersal and; nesting habitat for raptors and other migratory birds. Suitable roosting habitat is also present for bat species in the mixed conifer, and hardwood forests found throughout the project sites. Disruption or destruction of migratory bird nests is a violation of the Migratory Bird Treaty Act. Disruption or destruction of active raptor nests is a violation of Section 3503.5 of the California Fish and Game Code. These impacts would be **potentially significant**.

Mitigation Measure BIO-2: Conduct Pre-Construction Surveys for Raptors and Migratory Birds

Trees and vegetation are planned to be removed outside the nesting season, August 16 through February 14. If construction occurs between February 15 and August 15, EID will conduct preconstruction surveys for active nests of special-status and MBTA protected birds before the start of any project activities. Surveys for nesting raptors will be conducted in accordance with established CDFW raptor survey protocols. If active nests are found, EID will establish avoidance buffers around nests that are sufficient so that breeding is not likely to be disrupted or adversely affected by project activities. An avoidance buffer will constitute an area where project-related activities (i.e., vegetation removal, earth moving, and construction) will not occur. Typical avoidance buffers during the nesting season will be 100 feet for nesting passerine birds and 500 feet for nesting raptors unless a qualified biologist determines that smaller buffers will be sufficient to avoid impacts on nesting raptors and/or other birds. Factors to be considered for determining buffer size will include: the presence of natural buffers provided by vegetation or topography; nest height; locations of foraging territory; and baseline levels of noise and human activity. A qualified biologist will monitor any active nests during construction, to ensure that the species is not being harmed or harassed by the noise or activity resulting from project-related activities. Buffers will be maintained until a qualified biologist has determined that young have fledged and are no longer reliant on the nest or parental care for survival.

Implementation of Mitigation Measure BIO-2 would minimize disturbance or disruption of any active nesting sites of migratory birds and/or raptors and reduce the potentially significant impact to **less than significant** with mitigation.

Mitigation Measure BIO-3: Avoid Disturbance to Roosting Bat Species

Bats species known to occur in the proposed Project region may roost in trees within the proposed Project area. If Project activities are planned to occur during the bat maternity season (May through mid-August), the District shall conduct a habitat assessment of the Project site to identify potential habitat for bat maternity roosts (e.g., large-diameter trees, snags). Potential roost habitat identified during the assessment shall be marked and avoided, if possible. If the potential roost habitat cannot be avoided and removal of potential roost habitat must be conducted during the maternity season, preconstruction inspections for potential roost habitat shall be conducted using appropriate methods (e.g., camera inspection, exit survey with night optics, acoustic survey) within the 14-day period prior to vegetation removal. If bats are found during inspections, removal of that roost feature shall be delayed until the end of the maternity season or until a qualified bat biologist has determined that the young are capable of flight. If Project activities occur outside of the maternity season, no mitigation shall be required. Mitigation Measure BIO-4: Develop and Implement Worker Environmental Awareness Training

Before the start of vegetation removal activity, EID will develop a worker environmental awareness program. Before the start of project activities, the environmental training will be provided to all personnel working on the project site during vegetation removal. EID, consultant, and construction personnel entering the project site will be trained before being allowed on-site.

Implementation of Mitigation Measures BIO-3 and BIO-4 would avoid or minimize potential impacts on special-status bats, and reduce the potentially significant impact to **less than significant** with mitigation.

b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

No sensitive natural vegetation communities are present in the study area. Approximately 14 acres of riparian habitat exist along creeks in the Sly Park Recreation Area and Flume 46 project sites. The edges of Weber Reservoir and Jenkinson Lake may also provide riparian habitat functions. Several linear drainages, most of which appear to be seasonal in nature, were mapped in the study area and may also contain riparian habitat. Riparian habitat is under the jurisdiction of CDFW under Section 1600 of the California Fish and Game Code, and includes vegetation growing in association with waterways (e.g., creeks and drainages).

Project-related activities would result in no direct or indirect temporary or permanent loss of riparian habitat or removal of riparian vegetation no project activities are proposed within a water body/water course, and a Registered Professional Forester will establish Watercourse and Lake Protection Zones around all watercourses, lakes, channels, flood-prone areas, and riparian zones prior to project activity, in accordance with California Forest Practice Rules (Title 14, California Code of Regulations, Chapters 4, 4.5, and 10) (CAL FIRE 2017). Vegetation clearing to reduce hazardous fuel loads would take place using hand treatments inside the area from the ordinary high water mark out to 100 feet around Jenkinson Lake. Additionally, hand clearing will occur inside the area from the ordinary high water mark out to 75 feet along the three tributaries that connect to Jenkinson Lake. Therefore, this impact would be **less than significant**.

However, project activities could indirectly affect riparian habitat by altering existing topography and hydrology, causing fugitive dust to accumulate on vegetation, and potentially contributing to the introduction and spread of nonnative invasive plant species. This impact would be **potentially significant**

Mitigation Measure BIO-4: Develop and Implement Worker Environmental Awareness Training

Before the start of vegetation removal activity, EID will develop a worker environmental awareness program. Before the start of project activities, the environmental training will be provided to all personnel working on the project site during vegetation removal. EID, consultant, and construction personnel entering the project site will be trained before being allowed on-site.

Mitigation Measure BIO-5: Protect Riparian Habitat

EID shall avoid and minimize indirect impacts on riparian habitat by implementing watercourse and lake protection zones, and measures to minimize erosion and runoff in all drainage plans, in accordance with California Forest Practice Rules (Title 14, California Code of Regulations, Chapters 4, 4.5, and 10) (CAL FIRE 2017). Prior to project activity, EID will assign a qualified Registered Professional Forester to identify the locations of riparian habitat and water bodies, and corresponding setbacks (Watercourse and Lake Protection Zones) for avoidance. Identification of riparian habitat/water bodies for avoidance will be in addition to and distinguished from any required construction boundary fencing or flagging.

Watercourse and Lake Protection Zones will be identified as appropriate on project maps. Appropriate runoff controls, such as berms, straw wattles, silt fencing, filtration systems, and sediment traps, will be implemented to control siltation and the potential discharge of pollutants. Watercourse and Lake Protection Zones and appropriate runoff controls, such as berms, straw wattles, silt fencing, filtration systems, and sediment traps, will be implemented to protect riparian habitat and control siltation and the potential discharge of pollutants.

Implementation of Mitigation Measures BIO-4 and BIO-5 would avoid or minimize potential effects on riparian habitat, thereby reducing the impact to a **less than significant** level.

c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

No project activities are proposed within a water body/water course; therefore, project-related activities would result in no direct fill or indirect temporary or permanent loss of state or federally protected wetlands. Equipment mobilization and staging areas for the proposed vegetation removal activities would be located in existing access roads and uplands (i.e., annual grassland and ruderal areas) such that these activities would not directly affect any state or federally protected wetlands. However, project activities (i.e., vegetation clearing and mastication) encroaching on aquatic features could result in indirect impacts on vegetation, degradation of water quality, and/or changes in hydrology. Project-related spills, worker errors, and soil erosion in or near aquatic features are other potential sources of indirect impacts on state or federally protected wetlands. Introduction of dust and settling of contaminants associated with vehicular emissions during project activities may also indirectly affect aquatic resources.

Implementation of Mitigation Measure BIO-5 would avoid effects of project activities on state or federally protected wetlands through pre-project establishment of Watercourse and Lake Protection Zones and appropriate

runoff controls to control erosion, siltation, and potential discharge of pollutants; therefore this impact would be **less than significant** and no further mitigation is required.

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Wildlife movement corridors typically are associated with ridgelines and valleys, rivers, and creeks supporting riparian vegetation. The proposed project site does provide good cover for movement and foraging for many species; however, more typical movement corridors are available adjacent to the site. Proposed project development would temporarily impede wildlife use of the site; however, these project effects would be localized and would not substantially affect wildlife movements. No wildlife nursery sites are in the proposed project site. The impact would be **less than significant**. No mitigation is required.

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Proposed project site development would not conflict with any known local policies or ordinances and would be consistent with provisions of the El Dorado County General Plan Conservation and Open Space Element. The proposed project is not within an important biological corridor or priority conservation area as identified in the general plan. **No impact** would occur.

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

No draft or adopted habitat conservation plans, natural community conservation plans, or other approved local, regional, or state habitat conservation plans exist. **No impact** would occur.

3.5 CULTURAL RESOURCES

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
V. Cultural Resources. Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource pursuant to in Section 15064.5?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3.5.1 ENVIRONMENTAL SETTING

The following information is based on a preliminary investigation of the project location which included a records search at the North Central Information Center of the California Historical Resources Information System (CHRIS), FERC Project No. 184 Historic Properties Management Plan, Sly Park Historic Properties Management Plan, and research in AECOM’s cultural library, and a field survey of the project site.

PREHISTORIC SETTING

In an attempt to unify the various hypothesized cultural periods in California, Fredrickson (1973) proposed an all-encompassing scheme for cultural development. The following discussion of the temporal periods for the Sierra Nevada region, including the project area, is based on the synthesis provided by Jackson and Ballard (1999).

There is an absence of well-defined components or single component sites that date prior to 7,000 years before present (BP). Few sites date to the Archaic Pattern and Period (c 7000–3200 BP). Sites assigned to the Archaic Period appear as low-density distributions of artifacts that are intermixed with archaeological assemblages from later occupations, such as that indicated from the CA-ELD-263 investigation by Boyd (1998).

The Early and Middle Sierran Patterns (c 3200–600 BP) are interpreted with reservation to indicate an increase in regional land use and the regular use of certain locales. An increase in the exploitation of resources during the latter portion (c post-1400 BP) of this period is marked by the adoption of mortar technology.

The Early Sierran Period (c 3200–1400 BP) is marked by the abundant presence of milling slabs and handstones, a substantial increase in the use of obsidian tool production, and a shift to cool/wet climatic regimes.

The Middle Sierran Period (c 1400–600 BP) exhibits major technological improvements, associated with the introduction of bow and arrow technology. Social disruption is inferred from changes in artifact assemblages, land use patterns, and high incidence of violent death. This pattern is followed by relatively intensive land use, active trade, and the establishment of permanent settlements in some regions, inferred as reflecting increased populations. (Jackson and Ballard 1999:250)

The Late Sierran Period (c 600–150 BP) is characterized by continued intensive use of the western slope of the Sierra Nevada, including significant use of acorns, but with less of a focus on seeds; exploitation of fauna, including deer and rabbits; year-round occupation of sites below 3,000–3,500 feet; and short-term seasonal occupation of mid- to high-elevation Sierran sites.

ETHNOGRAPHIC SETTING

Ethnographically, the project area is situated near the boundaries of Nisenan (sometimes referred to as the Southern Maidu) and Washoe territory (d’Azevedo 1986; Waechter et al. 2003; Wilson and Towne 1978). As boundaries in the past were fluid, a brief overview of the ethnographic literature for both groups is described below.

NISENAN

In the Nisenan territory, several political divisions (or tribelets) each had their own respective headmen who lived in the larger villages. As with most valley and foothill groups, the Nisenan used a wide variety of floral and faunal food sources. The acquisition of faunal species was accomplished through any number of techniques and implements, including the bow and arrow, game drives, and decoys. Nets, traps, rodent hooks, and fire were all put to use in hunting small game. Fish could be caught with nets, gorges, hooks, and harpoons. (Wilson and Towne 1978)

WASHOE

Culturally, the Washoe people are linked to both California and the Great Basin. Their language is the only non-Numic language group in the Great Basin. Washoe core territory extended from Honey Lake on the north to the West Walker River on the south, and from the Pine Nut Range on the east, west to the Sierra Nevada crest. Washoe subsistence exhibited a pattern of seasonal resource exploitation, relying on extensive knowledge of the environment. (d’Azevedo 1986)

HISTORIC SETTING

The project area is located in El Dorado County, one of the original 27 counties created when California became a state in 1850. Originally, the county’s boundaries included parts of present-day Amador, Alpine, and Placer counties. By 1919, California adopted the current boundary lines that are marked to the east by the state of Nevada and to the west by Sacramento and Placer counties. The American and Cosumnes rivers form the County’s northern and southern boundaries. The original county seat was the town of Coloma, but in 1857 it was moved to Placerville (Baxter and Allen 2006; Waechter et al. 2003).

The Lincoln Highway, which was one of America’s first transcontinental automobile routes, was established in 1913, and several sections are currently overlain by US Highway 50. The Lincoln Highway was designated U.S. Highway 50 for most of its route, and it continues to be a popular route for tourists traveling to the Lake Tahoe area and Eldorado National Forest (ENF) (NPS 2004:5).

Gold mining was the predominant industry in western El Dorado County for many years. Other mineral products in the region include large deposits of slate, granite, lime, and asbestos, as well as building stones. By the turn of the 20th century, lumbering, raising livestock, and farming had joined mining as the principal industries at the lower elevations of the county. Crops included pears, plums, apples, peaches, cherries, oranges, olives, walnuts, wheat, rye, corn, and acres of vineyards. (Waechter et al. 2003; Baxter and Allen 2006)

Water was needed for mining activities. After the ditch systems had been established, temporary dams were constructed by miners, while more permanent dams for hydroelectric power were built starting in the 1870s. This dam construction progressed, with larger dams and more modern construction methods to keep up with population growth. Hydroelectric development has intensified considerably since then, resulting in a broad network of facilities.

A segment of the El Dorado Canal (Flume 46), which was completed by the El Dorado Water & Deep Gravel Mining Company (EDW & DGMCo.) in 1876 is located within the current project area (Starns 2004). Civil engineer Francis A. Bishop designed the canal, which proved to be a great deal more challenging than anticipated because of the rugged terrain characterized by granite domes and steep mountain slopes. To meet the challenges posed by the landscape, Bishop planned to lay flume segments on foundations of dry-laid granite and rubble bench walls wherever possible instead of building costly, high-maintenance timber trestles. The rock walls would maintain the hydraulic gradient necessary to convey water along the steep mountain slopes of the canyon. The canal conveyed water to the mines in Placerville and Coon Hollow. In 1919, El Dorado Water Company, the predecessor of EID, purchased the lower sections of the system, and EID made arrangements to purchase the remainder of the system in 1997 (Starns 2004:190).

Lumbering operations in the Sierra Nevada foothills began in 1849 at Sutter's Mill in Coloma, which ironically led to the Gold Rush and the intensification of lumbering operations to support mining and associated developments, and resulted in substantial changes to the forest. A sawmill, which began operation in 1911 by the J. and J. Blair Land and Lumber Company, was located at Fresh Pond, directly east of the current project. In 1937, the Placerville Lumber Company leased a portion of the property. Reportedly, the Sly Park School, which was built between 1910 and 1925, was located on a bench overlooking Fresh Pond (Supernowicz 1994).

PREVIOUS CULTURAL STUDIES

The cultural resources records search conducted at the North Central Information Center, indicated that three previously conducted cultural resources inventories (NCIC report numbers 464, 8752, and 9003) occurred within portions of the project site, and seven studies (NCIC report numbers 8668, 8774, 8775, 8786, 9338, 9947, and 10076) have occurred within 0.25 mile of the study area (NCIC File No 18-66). No cultural resources have been previously recorded within the project site (i.e. treatment area); however, seven historic-era resources have been documented within 0.25 mile of the project site.

FIELD INVESTIGATION

Reconnaissance-level cultural resources survey was conducted in March, April, and May of 2019 during which two previously unrecorded resources were documented. The first is an historic rock wall of stacked unmodified stone running roughly east to west located in a meadow at the northern portion of the project site bordering Weber Reservoir. The rock wall is constructed of native volcanic rock which is abundant in the meadow and is approximately 75 meters long. The second previously unrecorded resource is an abandoned 1940s Plymouth automobile near the shore of the reservoir. The auto is nearly complete though rusted, dented, and vandalized with both graffiti and bullet holes.

3.5.2 DISCUSSION

- a) Cause a substantial adverse change in the significance of a historical resource pursuant to in Section 15064.5?
- b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?

The following discussion addresses items a) and b) for Cultural Resources.

Three previously conducted cultural resources inventories (NCIC report numbers 464, 8752, and 9003) occurred within portions of the project site, and seven studies (NCIC report numbers 8668, 8774, 8775, 8786, 9338, 9947, and 10076) have occurred within 0.25 mile of the study area. Table 3.5-1 through 3.5-4 lists each report and the findings. The records search conducted for the project found that no cultural resources have been previously recorded within the project site (treatment area); however, seven historic-era resources have been documented within 0.25 mile of the project site.

Table 3.5-1. Previous Cultural Resources Inventories (Flume 46)

NCIC Report Number	Year	Author(s)	Report Title
Previous Studies Conducted within Portions of the Project Site			
000464	1969	Olsen, William H. (uncertain)	Survey of the El Dorado Canal, Powerhouse, Forebay, and Intake Dam, El Dorado County, California.
008865	2006	R. Scott Baxter, Rebecca Allen, and Trish Fernandez	Resource Evaluation of CA-ELD-2230H (Ditch Camp 3) and CA-ALP-532/H (Caples Lake Tender's Site), FERC Project 184 APE
009003	2003	Sharon Waechter, Stephen Wee, Meredith Rucks, Mary Maniery, Darren Andolina, and Eric Wohlgemuth	Proposed Relicensing of the El Dorado Hydroelectric Project (FERC Project 184)
009223	2006	Kim Thibeault	An Archaeological Survey Report for the Groovy Timber Harvesting Plan, El Dorado County, California
009339	1971	James M. Snoke	Pacific Timber Sale Archaeological Reconnaissance Report
Previous Studies Conducted within 0.25 Mile of the Project Site			
008667	1991	Stephen Wee	Historic Research Report on Rock Retaining Wall Locate above Flume 45 EL Dorado Canal
008668	1991	Leslie Glover, Stephen Wee, and Rebecca Bunse	Archaeological Survey and Historic Research Report on Access Roads Associated with the El Dorado Canal
008669	1991	Leslie Glover, Stephen Wee, and Rand Herbert	Archaeological Survey and Historical Research Report on the El Dorado Canal
008814	1996	Lisa A. Shapiro and Robert J. Jackson	Evaluation of Heritage Resources for the Pacific House-Echo Summit Power Line Safety Project, Eldorado National Forest
Note: NCIC = North Central Information Center			
Source: North Central Information Center 2019 compiled by AECOM in 2019			

Table 3.5-2. Previously Recorded Cultural Resources (Ditch Camp 5)

Primary Number	Trinomial Number	Type	Age	Description	NRHP Eligibility/CRHR Significance
Resources within Project Site					
P-09-000599	CA-ELD-000511H	Structure, Site	Historic	Water conveyance system; Ancillary building; Engineering structure	Not Eligible/Significant
P-09-003451	CA-ELD-002226H	Building	Historic	Ditch Camp 5	Contributing element of FERC 184 district
Resources within 0.25 Mile of Project Site					
P-09-000809	CA-ELD-000721H	Structure, Site	Historic	Roads/trails/railroad grades; Engineering Structure; Bridge; Highway/trail	
Resources within Project Site					
P-09-000599	CA-ELD-000511H	Structure, Site	Historic – El Dorado Canal	Water conveyance system; Ancillary building; Engineering structure	Determined not eligible/significant
P-09-003456	CA-ELD-002230H	Western States Gas and Electric Company's Ditch Camp 3	Historic	Foundations/structure pads; Privies/dumps/trash scatters; Water conveyance system; Roads/trails/railroad grades; Walls/fences	Determined not eligible
Resources within 0.25 Mile of Project Site					
P-09-003309	CA-ELD-002177H	Site	Historic, Ogilby Grade	Roads/trails/railroad grades	
P-09-004264		Site	Historic	Roads/trails/railroad grades	
P-09-004339		Site	Historic, Esmeralda Sawmill	AH02 (Foundations/structure pads); AH04 (Privies/dumps/trash scatters)	
Notes: NRHP = National Register of Historic Places; CRHR = California Register of Historic Resources					
Source: North Central Information Center 2019, Data compiled by AECOM in 2019					

Table 3.5-3. Previously Recorded Cultural Resources (Sly Park Recreation Area)

Primary Number	Trinomial Number	Type	Age	Description	NRHP Eligibility
Resources within Project Site					
P-09-000351	CA-ELD-000263		Prehistoric	AP04 (Bedrock milling feature); AP05 (Petroglyphs); AP15 (Habitation debris)	Eligible/Significant
P-09-000816	CA-ELD-000728		Prehistoric	AP04 (Bedrock milling feature); AP15 (Habitation debris)	Eligible/Significant
P-09-001810	CA-ELD-002097H		Historic	AH07 (Roads/trails/railroad grades); AH09 (Mines/quarries/tailings)	Significant – Criteria A
P-09-001811	CA-ELD-002098H		Historic	AH07 (Roads/trails/railroad grades)	Significant – Criteria A
P-09-001815	CA-ELD-001334H		Historic	AH02 (Foundations/structure pads)	Not eligible/significant
P-09-001896			Historic	HP22 (Lake/river/reservoir)	Significant – Criteria A
P-09-003181	CA-ELD-002091H		Sly Park Historic District	HP02 (Single family property); HP04 (Ancillary building); HP20 (Canal/aqueduct); HP21 (Dam); HP22 (Lake/river/reservoir); HP70 (Tunnel or Underpass)	Significant – Criteria A
Resources within 0.25 Mile of Project Site					
P-09-001792		Site	Prehistoric	AP04 (Bedrock milling feature)	Does not appear eligible/significant
P-09-001793	CA-ELD-002092	Site	Prehistoric	AP04 (Bedrock milling feature)	Does not appear eligible/significant
P-09-001794		Other	Prehistoric	AP04 (Bedrock milling feature)	Does not appear eligible/significant
P-09-001796		Site	Historic, Sly Park Dam	HP21 (Dam)	Significant – Criteria A
P-09-001797		Other	Historic	AH05 (Wells/cisterns)	Not eligible/significant
P-09-001798	CA-ELD-001331		Prehistoric	AP04 (Bedrock milling feature)	Does not appear eligible/significant
P-09-001799		Structure	Historic, Camp Creek Diversion Tunnel and North Portal	AH06 (Water conveyance system); HP20 (Canal/aqueduct)	Significant – Criteria A
P-09-001800	CA-ELD-002093H	Site	Historic	AH07 (Roads/trails/railroad grades)	Significant – Criteria A
P-09-001801		Other	Historic	AH16 (Other) - fence posts	Not eligible/significant
P-09-001802	CA-ELD-002094H	Site	Historic	AH04 (Privies/dumps/trash scatters)	Does not appear eligible/significant
P-09-001803		Other	Historic	AH16 (Other)	Not eligible/significant
P-09-001804		Object	Historic	AH16 (Other) – iron plate	Not eligible/significant

Table 3.5-3. Previously Recorded Cultural Resources (Sly Park Recreation Area)

Primary Number	Trinomial Number	Type	Age	Description	NRHP Eligibility
P-09-001805		Object	Historic	AH04 (Privies/dumps/trash scatters)	Not eligible/significant
P-09-001806		Site	Historic	AH09 (Mines/quarries/tailings)	Not eligible/significant
P-09-001809	CA-ELD-002096H	Site	Historic	AH09 (Mines/quarries/tailings)	Does not appear eligible/significant
P-09-001812	CA-ELD-001332	Site	Prehistoric	AP04 (Bedrock milling feature)	Not eligible/significant
P-09-001813	CA-ELD-001333H	Other	Historic, Bishop Goodman House	AH02 (Foundations/structure pads)	Eligible/significant
P-09-001814		Site	Prehistoric	AP04 (Bedrock milling feature)	Does not appear eligible/significant
P-09-001816	CA-ELD-001335	Site	Prehistoric	AP04 (Bedrock milling feature)	Does not appear eligible/significant
P-09-001817		Other	Prehistoric	AP04 (Bedrock milling feature); AP16 (Other) - isolate	Not evaluated
P-09-001897		Structure	Historic, Sly Park Storage Shed	HP04 (Ancillary building)	Significant – Criteria A
P-09-001898		Structure	Historic, Sly Park Dam Tender’s House	HP02 (Single family property)	Significant – Criteria A
P-09-002019	CA-ELD-001419	Site	Prehistoric	AP02 (Lithic scatter)	Not evaluated
P-09-002034		Site	Historic, Dry Gulch Ditch	AH06 (Water conveyance system)	Not evaluated
P-09-002079	CA-ELD-001449	Site	Prehistoric	AP04 (Bedrock milling feature)	Not evaluated
P-09-002080	CA-ELD-001450	Site	Prehistoric	AP04 (Bedrock milling feature)	Not evaluated
P-09-002081	CA-ELD-001451	Site	Prehistoric	AP04 (Bedrock milling feature)	Not evaluated
P-09-002082		Site	Historic, mining ditch	AH06 (Water conveyance system)	Not evaluated
P-09-004282		Site	Prehistoric	AP04 (Bedrock milling feature)	Not evaluated
P-09-004416	CA-ELD-002764H	Site	Historic, Jenkinson Road	AH07 (Roads/trails/railroad grades)	Not evaluated
P-09-004418	CA-ELD-002766H	Site	Historic, Louis LePettit’s Grade/Stonebreaker Grade	AH07 (Roads/trails/railroad grades)	Not evaluated
P-09-004420	CA-ELD-002767H	Site	Historic, Road to Cutler’s Mill	AH07 (Roads/trails/railroad grades)	Not evaluated
P-09-005391		Site	Prehistoric	AP04 (Bedrock milling feature)	Not evaluated
P-09-005395		Site	Historic, Diamond Springs to Carson Valley	AH07 (Roads/trails/railroad grades)	Not evaluated
P-09-005861	CA-ELD-003074	Site	Prehistoric	AP02 (Lithic scatter)	Not evaluated

Source: North Central Information Center 2019, Data compiled by AECOM in 2019

Table 3.5-4. Previously Recorded Cultural Resources Weber Reservoir

Primary Number	Trinomial Number	Type	Age	Description	NRHP Eligibility
Resources within Project Site					
P-09-001159		Site	Historic	AH06 (Water conveyance system)	Not evaluated
P-09-001466	CA-ELD-001081H	Structure	Historic	AH06 (Water conveyance system)	Not evaluated
P-09-001510	CA-ELD-001123H	Structure	Historic	AH08 (Dams)	Not evaluated
Resources within 0.25 Mile of Project Site					
P-09-000512	CA-ELD-000424	Site	Prehistoric	AP02 (Lithic scatter)	Not evaluated
P-09-001458		Object	Prehistoric	AH16 (Other) – basalt flake	Not eligible
P-09-001459		Object	Historic	AH16 (Other) – tin coffee pot	Not eligible
P-09-001464	CA-ELD-001079H	Site	Historic	AH11 (Walls/fences)	Not evaluated
P-09-001465	CA-ELD-001080H	Site	Historic	AH07 (Roads/trails/railroad grades)	Not evaluated
P-09-001467	CA-ELD-001082H	Site	Historic	AH09 (Mines/quarries/tailings)	Not evaluated
Source: North Central Information Center 2019, Data compiled by AECOM in 2019					

However, a review of additional documentation not contained in the results provided by NCIC and summarized in Norby and Wee (2018) indicate that two major 1990 inventory and evaluation studies of the El Dorado Canal were undertaken for PG&E. In his evaluation of the historic significance of the Canal, (*Historical Overview and Significance Evaluation of the El Dorado Canal*, Volume 1) Shoup argued that the El Dorado hydroelectric power system “as a whole” no longer retained sufficient integrity to its potential period of significance (1922–1940) for it to be considered eligible for listing in the National Register of Historic Places (NRHP). Shoup concluded that major modifications to the siphons, recent tunnel construction projects, abandonment of old canal segments, and enlargement of the 1870s hydraulic mining canal and subsequent modifications to the enlarged 1922–24 hydroelectric power canal undertaken over the years of operation by Western States Gas & Electric and its successor-in-interest PG&E had rendered the overall system insignificant as a historic resource in the context of California hydroelectric power systems. The State Historic Preservation Officer (SHPO) concurred with this finding.

However, Shoup argued that the dry-laid granite rock walls that dated to the 1870s and were related to the early hydraulic mining history of the state possessed integrity. He recommended that they be considered as significant at the local and statewide level of significance and that they qualified for listing in the NRHP as a “discontiguous district” associated with the Chinese (Criteria A and C, Ethnic Heritage) and as an important example of late 19th century engineering (Criterion C, Engineering/Technology). The California SHPO disagreed with Shoup that the rock walls were eligible under Criterion A, but allowed that they may be eligible under Criterion C, if it could be proven that there was something distinctively “Chinese” about the construction methods used in building the rock walls, or under engineering/technology if the walls embodied “certain distinguishing attributes that define the property type and meet an appropriate level of integrity as well.

After comparing the existing resources on the canal to the extant rock walls on 13 other major hydraulic mining systems in the Sierra Nevada as documented by Caruso in the *Historical Overview and Significance Evaluation of the El Dorado Canal*, Volume 2, Wee and Herbert concluded that certain segments of the canal’s extensive system of flume bench foundation walls and abutments possessed distinguishing attributes and sufficient integrity to warrant listing in the NRHP under Criterion C (Engineering/Technology). These segments are the following: the rock bench walls located at Flume Nos. 8, 24–25, 41, 45, and 48, plus the rock retaining walls running up and

down Alder Creek and Plum Creek canyons that were abandoned with the construction of siphons across the mouths of these canyons in 1924. They found that the rock walls that “follow along the natural slope of the drainage represent distinctive engineering features that enhance our understanding of this type of resource” and that “those segments of dry-laid rock walls that are the highest, tallest, and display the best workmanship in fitting the granite blocks together, or where walls are found in combination with other distinctive engineering features such as openings through the walls, stepped or tiered walls, stone culverts, rocks containing drill holes, or tall abutment walls at the crossing over major drainages, they convey a greater sense of their historic function and method of construction. The SHPO concurred with these recommendations in 1993 (Norby and Wee 2018:8)

The eligibility status of the El Dorado Rock Wall Discontiguous District was reaffirmed in 2008. That year, PAR Environmental Services, Inc. prepared an NRHP evaluation report for EID’s Federal Energy Regulatory Commission (FERC) Project No. 184 hydroelectric system, which included the long abandoned Alder Creek and Plum Creek Canyon Flume Bench Walls among the eight segments that contributed to the discontiguous historic district. Their study concluded that little had changed that would alter their status as part of a discontiguous historic district since they were found eligible in 1993. In August 2008, SHPO concurred that the El Dorado Rock Wall Discontiguous District remained eligible for inclusion in the NRHP. None of these rock walls are located within the current project (Norby and Wee 2018).

The project does not involve disturbance to any of the known resources. However, the project site (treatment area) is situated in an area known to contain prehistoric and historic resources. Though unlikely, soil disturbance during project activities could damage previously unrecorded cultural resources. If buried historical or archaeological resources were inadvertently discovered and impacted during project implementation, this would be a potentially significant impact. Mitigation Measure CUL-1 would be implemented to reduce this potentially significant impact to a **less than significant** level.

Mitigation Measure CUL-1: Address Previously Undiscovered Historic Properties and Archaeological Resources.

EID shall implement the following measure to reduce or avoid impacts on undiscovered historic properties and archaeological resources. If interested Native American Tribes provide information demonstrating the significance of the project location and tangible evidence supporting the determination the site is highly sensitive for prehistoric archaeological resources, EID will retain a qualified archaeologist 1) monitor for potential prehistoric archaeological resources during initial ground disturbing activities, 2) prepare a worker awareness brochure, and 3) invite tribal representatives to review the worker awareness brochure.

If buried or previously unidentified historic properties or archaeological resources are discovered during project activities, all work within a 100-foot radius of the find shall cease. EID shall retain a professional archaeologist meeting the Secretary of the Interior’s Professional Standards for Archaeologists to assess the discovery and recommend what, if any, further treatment or investigation is necessary for the find. Interested Native American Tribes will also be contacted. Any necessary treatment/investigation shall be developed with interested Native American Tribes providing recommendations and shall be coordinated with the State Historic Preservation Officer and Reclamation, if necessary, and shall be completed before project activities continue in the vicinity of the find.

c) Disturb any human remains, including those interred outside of formal cemeteries?

There has been no indication or evidence that the area has been used for human burials in the recent or distant past; therefore, human remains are unlikely to be encountered. If human remains are encountered, the mitigation measure below would reduce potential impacts to a less than significant level.

Mitigation Measure CUL-2: Avoid Potential Effects on Undiscovered Burials.

EID shall implement the following measures to reduce or avoid impacts related to undiscovered burials. In accordance with the California Health and Safety Code, if human remains are uncovered during ground-disturbing activities, all potentially damaging ground-disturbance in the area of the burial and a 100-foot radius shall halt and the El Dorado County Coroner shall be notified immediately. The coroner is required to examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or state lands (Health and Safety Code Section 7050.5[b]). If the coroner determines that the remains are those of a Native American, then Federal laws governing the disposition of those remain would come into effect. Specifically, the Native American Graves Protection and Repatriation Act (NAGPRA), Pub L. 101-601, 25 U.S.C. 3001 et seq., 104 Stat. 3048 requires federal agencies and institutions that receive federal funding to return Native American cultural items to lineal descendants and culturally affiliated Indian Tribes and Native Hawaiian organizations. Cultural items include human remains, funerary objects, sacred objects, and objects of cultural patrimony. NAGPRA also has established procedures for the inadvertent discovery of Native American cultural items on Federal or Tribal lands, which includes consultation with potential lineal descendants or Tribal officials as part of their compliance responsibilities.

California law recognizes the need to protect Native American human burials, skeletal remains, and items associated with Native American burials from vandalism and inadvertent destruction. EID shall ensure that the procedures for the treatment of Native American human remains contained in California Health and Safety Code Sections 7050.5 and 7052 and Public Resources Code Section 5097 are followed.

3.6 ENERGY

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VI. Energy. Would the project:				
a) Result in potentially significant environmental impact due to wasteful, inefficient, unnecessary consumption of energy resources, during project construction or operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3.6.1 ENVIRONMENTAL SETTING

The project would not include the construction or operation of facilities that would require electricity from a regional or local utility provider. Proposed activities would include fuel usage for vehicles, trucks, hand-held machinery, and heavy-duty equipment. Energy usage activities associated with the project would be limited to vehicle usage and short-term equipment and machinery usage.

3.6.2 DISCUSSION

a) Result in potentially significant environmental impact due to wasteful, inefficient, unnecessary consumption of energy resources, during project construction or operation?

The project would not result in a potentially significant environmental impact due to wasteful, inefficient, unnecessary consumption of energy resources during vegetation management activities. The project would not increase consumption or inefficient energy use and would not include the construction of new facilities that would require energy. During operations, the project would only require fuel for vehicles and equipment used by working crews. The impact would be **less than significant**.

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

The project would not conflict with a state or local plan for renewable energy. Currently, no state or local plans restrict vegetation management activities, and equipment and machinery used would comply with all state and local energy efficiency standards. The impact would be **less than significant**.

3.7 GEOLOGY AND SOILS

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VII. Geology and Soils. Would the project:				
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ii) Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iii) Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iv) Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Directly or indirectly destroy a unique paleontological resource or site or unique geological feature?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3.7.1 ENVIRONMENTAL SETTING

There are no known active faults in the project area. The closest active faults are the Foothills Fault system (Melones and Bear Mountains Fault Zones) located approximately 15 miles west of the project area (USGS 2019)

Rock outcrops of granitic origin are common (i.e., Metamorphic rock land soil series); and soils in the project area consist of rocky and cobbly loam, sandy loam, and alluvium derived from volcanic, slate/sandstone parent material, and granitic parent material (USGS 2013).

- a) **Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:**
 - i) **Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42**
 - ii) **Strong seismic ground shaking?**
 - iii) **Seismic-related ground failure, including liquefaction?**
 - iv) **Landslides?**

The California Geological Survey does not list the County of El Dorado as a county affected by the Alquist-Priolo Earthquake Fault Zone (DOC 2010). The faults that exist in the vicinity of the project area are not listed as surface fault ruptures. No portion of El Dorado County is located in a Seismic Hazard Zone (California Geological Survey identified areas prone to liquefaction and earthquake induced landslides).

The project is limited to vegetation clearance activity and would not include the construction of any structures that would be subject to rupture of a known earthquake fault, strong seismic ground shaking, seismic related ground failure, or landslides. Therefore, there would be **no impact**.

b) Result in substantial soil erosion or the loss of topsoil?

Project implementation would include vegetation activities that could result in soil erosion. Vegetation clearance conducted along steep slopes would take place by crews using hand held equipment rather than powered machinery. Some vegetation cleared would also be left in place for further slope stabilization. This approach will reduce potential for erosion because machinery tends to disturb soil and steep gradients can accumulate sediment and debris that mobilizes suddenly creating debris flows and severe scouring downslope. EID would follow all measures set forth in the California Forest Practice Rules to minimize soil erosion which would avoid potential for soil erosion. Impacts are **less than significant**.

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?

Project implementation is anticipated to result in minimal ground disturbance. In sloped areas where the greatest potential for landslide would occur, vegetation management activities would be limited to crews conducting thinning and pruning with chainsaws and hand tools. In addition, there are no structures proposed, so the project would not expose soils to subsidence, liquefaction, or collapse, and would not pose a hazard to people or structures. Vegetation clearance would not pose a significant risk from landslides, lateral spreading, subsidence, liquefaction, or collapse. There would be **no impact**.

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

The project would not include construction of habitable structures, and therefore is not expected to create substantial risks to life or property. Impacts would be **less than significant**.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

The project would not include the use of septic tanks or alternative wastewater disposal systems. **No impact** would occur.

f) Directly or indirectly destroy a unique paleontological resource or site or unique geological feature?

Paleontological resources are typically present in sedimentary rock formations. The likelihood of paleontological resources being present in the project area is considered very low as El Dorado County's geology is primarily igneous (volcanic) where paleontological resources are not known to exist (El Dorado County 2003). The project area does not contain any known fossil locations or known paleontological sites. Impacts would be **less than significant**.

3.8 GREENHOUSE GAS EMISSIONS

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VIII. Greenhouse Gas Emissions. Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3.8.1 ENVIRONMENTAL SETTING

Certain gases in Earth’s atmosphere, classified as greenhouse gases (GHGs), play a critical role in determining Earth’s surface temperature. A portion of the solar radiation that enters the atmosphere is absorbed by Earth’s surface, and a smaller portion of this radiation is reflected toward space. This infrared radiation (i.e., thermal heat) is absorbed by GHGs within the atmosphere; therefore, infrared radiation released from Earth that otherwise would have escaped back into space is instead “trapped,” resulting in a warming of the atmosphere. This phenomenon, known as the “greenhouse effect,” is responsible for maintaining a habitable climate on Earth. Without the naturally occurring greenhouse effect, Earth would not be able to support life as we know it. However, GHG emissions associated with human activities are likely responsible for intensifying the greenhouse effect and have led to a trend of unnatural warming of Earth’s atmosphere and oceans, with corresponding effects on global circulation patterns and climate (IPCC 2014).

GHGs are present in the atmosphere naturally; are released by natural and anthropogenic (human-caused) sources; and are formed from secondary reactions taking place in the atmosphere. The following are GHGs that are widely accepted as the principal contributors to human-induced global climate change:

- ▶ carbon dioxide (CO₂)
- ▶ methane (CH₄)
- ▶ nitrous oxide (N₂O)
- ▶ hydrofluorocarbons
- ▶ perfluorocarbons
- ▶ sulfur hexafluoride

Global warming potential (GWP) is a concept developed to compare the ability of each GHG to trap heat in the atmosphere relative to CO₂. The concept of CO₂ equivalents (CO₂e) is used to account the different GWP potentials of GHGs to absorb infrared radiation. The GWP of a GHG is based on several factors, including the relative effectiveness of a gas in absorbing infrared radiation, and the length of time (i.e., lifetime) that the gas remains in the atmosphere (“atmospheric lifetime”). The reference gas for GWP is CO₂; therefore, CO₂ has a GWP of 1. The other main GHGs that have been attributed to human activity are CH₄, which has a GWP of 21, and N₂O, which has a GWP of 310 (UNFCCC 2013). For example, 1 ton of CH₄ has the same contribution to the greenhouse effect as approximately 21 tons of CO₂. GHGs with lower emissions rates than CO₂ still may

contribute to climate change because they are more effective at absorbing outgoing infrared radiation than CO₂ (i.e., high GWP).

Impacts of GHGs are borne globally, as opposed to localized air quality effects of criteria air pollutants and TACs. The quantity of GHGs that it takes ultimately to result in climate change is not known precisely; the quantity is enormous, and no single project alone would measurably contribute to a noticeable incremental change in the global average temperature, or to a global, local, or micro-climate. From the standpoint of CEQA, GHG-related effects to global climate change are inherently cumulative.

MANDATORY GREENHOUSE GAS REPORTING RULE

On October 30, 2009, the EPA published the final version of the Mandatory Greenhouse Gas Reporting Rule in the Federal Register. In general, compliance with this national reporting requirement provides EPA with accurate and timely GHG emissions data from facilities that emit 25,000 metric tons (MT) or more of CO₂ annually. An estimated 85 percent of the total U.S. GHG emissions, from approximately 10,000 facilities, are covered by this final rule. Subsequent rulings have expanded the emissions sources required to report emissions data, and now include oil and natural gas industries, industrial wastewater treatment plants, and industrial landfills.

EXECUTIVE ORDER S-3-05

The goal of this Executive Order, enacted on June 1, 2005, is to reduce California's GHG emissions to year 2000 levels by 2010, 1990 levels by 2020, and 80 percent below the 1990 levels by the year 2050. In 2006, this goal was reinforced with the passage of Assembly Bill (AB) 32.

GLOBAL WARMING SOLUTIONS ACT OF 2006 AND EXECUTIVE ORDER S-20-06

The Global Warming Solutions Act of 2006 set the same overall GHG emissions reduction goals as outlined in Executive Order S-3-05. The act further requires that ARB create a plan including market mechanisms and implement rules to achieve "real, quantifiable, cost-effective reductions of greenhouse gases." Executive Order S-20-06, enacted on October 18, 2006, further directed state agencies to begin implementing the act, including the recommendations made by the State of California's Climate Action Team.

The EDCAQMD has no regulations addressing GHG emissions. The EDCAQMD has not established quantitative significance thresholds for evaluating GHG emissions in CEQA analyses. Each project is evaluated on a case-by-case basis, using the most up-to-date calculation and analysis methods. Therefore, to establish additional context in which to consider the order of magnitude of the project's construction-related GHG emissions, this analysis considers the following guidelines on the levels of GHG emissions that would constitute a cumulatively considerable incremental contribution to climate change:

- ▶ The San Luis Obispo Air Pollution Control District has adopted 1,150 MT CO₂e as a project-level GHG significance threshold that would apply to annual operational and amortized construction emissions from land use development projects (SLOAPCD 2012).
- ▶ The SCAQMD GHG Working Group has proposed a significance screening level of 3,000 MT CO₂ per year for residential and commercial projects (SCAQMD 2008).

- ▶ The Sacramento Metropolitan Air Quality Management District (SMAQMD) has a construction phase GHG emissions thresholds of 1,100 MT CO₂e per year (SMAQMD 2015).


Many California air districts, such as the SMAQMD and the SCAQMD, recommend that construction emissions associated with a project be amortized over the life of the project (typically 30 years) and added to the operational emissions. The EDCAQMD’s CEQA Guide to Air Quality Assessment includes numerous references to methodologies developed by the SMAQMD and the SCAQMD for criteria pollutant emissions. Therefore, because of lack of a specific GHG threshold or guidance from the EDCAQMD, referencing methodologies and guidance from those agencies is considered to be appropriate when discussing GHG emissions. The information regarding other jurisdictions’ thresholds are provided for comparative purposes only. These thresholds are not applicable to the project and are not intended to be used for assessing the environmental impact of associated GHG emissions.

3.8.2 DISCUSSION

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

The project objective is to promote a healthy forest, promote carbon sequestration, and provide long term benefit. In the short term, activities associated with implementation of the proposed project could produce GHGs when conducting prescribed burns or burning slash piles. Work permitted under the VMP would be ongoing. However, as shown in Table 3.8-1, prescribed burns contribute far less CO₂ or ozone than what wildland fires generate. As such, while individual prescribed burn projects implemented under the project would introduce some emissions of CO₂ or ozone overall the project would reduce the potential release of greenhouse gas emissions in the long term. Therefore, the Plan would not significantly increase greenhouse emissions. Fuel reduction calculations were conducted using Calfire Calculator and Forest Vegetation Services (FVS) model. Output files for the calculations are provided in Appendix A and summarized below in Table 3.8-1

Table 3.8-1. Net GHG Benefit of Proposed Project

	Project Name:	El Dorado Irrigation District Veg Management Project
	Grant ID, if applicable:	5GG17112
GHG Summary Worksheet		
GHG benefit from fuels reduction activities (MT CO ₂ e)		12,088
Net GHG Benefit (MT CO ₂ e)		12,088

Source Cal Fire and AECOM 2019

Project implementation would generate short-term GHG emissions related to the use of vehicles, mechanical equipment, and prescribed burning. Smaller equipment such as chainsaws and chippers would be used. These activities would be short-term at each project location and would cease following completion of the project. Emissions at each of the project sites would vary depending on duration and equipment used.

GHG emissions generated by the project would consist primarily of CO₂. Emissions of other GHGs, such as CH₄ and N₂O, are important with respect to global climate change; however, even when considering the higher GWPs

of these other GHGs, their contribution to total GHG emissions is small compared with CO₂ emissions from the project's emission sources (i.e., mechanical equipment and on-road vehicles).

In summary, the project would conduct vegetation clearance as a way to remove fuel load and decrease the potential for large wildland fires that release greenhouse gases. Project implementation would also promote the carbon sequestration capacity of the forest. It is anticipated that short-term equipment and vehicle usage in the project area would not generate emissions that would have a significant impact on the environment. Therefore, there would be a **less than significant** impact.

b) Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

The project would not generate GHG emissions that would have a significant impact on the environment. Neither EID nor any other agency with jurisdiction over the project has adopted climate change or GHG reduction measures with which the project would conflict. The project would not conflict with any applicable plan, policy, or regulation for the purpose of reducing GHG emissions. Therefore, there would be a **less than significant** impact.

3.9 HAZARDS AND HAZARDOUS MATERIALS

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
IX. Hazards and Hazardous Materials. Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3.9.1 ENVIRONMENTAL SETTING

The SWRCB GeoTracker and the California Department of Toxic Substances Control (DTSC) EnviroStor database were searched to identify toxic releases, hazardous waste, or other violations that could affect the project site (SWRCB 2019; DTSC 2019). There is one leaking underground storage tank (LUST) cleanup site in or near the project area: Pacific Gas and Electric Company (PG&E) CAMP #5 located at 7225 HYW 50 in Pollock Pines.

WILDFIRE RISK AND RESPONSE

PRC 4201-4204 and Government Code 51175-51189 require identification of fire hazard severity zones in California. CAL FIRE has established a fire hazard severity classification system. Fire hazard severity zones are

measured qualitatively, based on vegetation, topography, weather, crown fire potential (a fire's tendency to burn upwards into trees and tall brush), ember production, and movement within the area being consumed.

Fire prevention areas considered to be under State jurisdiction are referred to as State Responsibility Areas (SRA). In such areas, CAL FIRE is required to delineate three hazard ranges: moderate, high, and very high. All project sites are within an SRA and has been identified by CAL FIRE as being in a Very High, High, and Moderate Fire Hazard Severity Zone (CAL FIRE 2007).

Battalion 1 of CAL FIRE's Amador-El Dorado Unit has primarily responsibility for response to wildland fires in the project area (CAL FIRE 2018). Battalion 1 encompasses approximately 590,000 acres in El Dorado and Sacramento counties. El Dorado County communities within the Battalion include Camino, Diamond Springs, El Dorado, El Dorado Hills, Pioneer, Logtown, Latrobe, Nashville, Cameron Park, Placerville, Pleasant Valley, Pollock Pines, Rescue, Shingle Springs, and Grizzly Flats. Within Battalion 1, El Dorado Station 43 would provide first response to the project site. El Dorado Station 43 houses two Type III fire engines and one Type II fire dozer (CAL FIRE 2018). It also houses one dozer tender unit and is the Battalion Chief Headquarters. El Dorado Station 43 is approximately 10 miles west of the project area, at 5660 Mother Load in Placerville.

3.9.2 DISCUSSION

- a) **Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?**
- b) **Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?**

Project implementation is not anticipated to create a hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. Burning of slash would occur intermittently and would follow rules set forth in the California Forest Practice Rules. Vegetation clearance activities could result in minor use, storage, and disposal of hazardous materials such as equipment fuel, however hazardous wastes would be disposed of in accordance with applicable federal, State and local requirements. Project impacts would be **less than significant**.

- c) **Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?**

The project area is not located within 0.25 mile of any school. **No impact** would occur.

- d) **Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code §65962.5 and, as a result, would it create a significant hazard to the public or the environment?**

There is one cleanup site located in the Camp 5 project area. There is one leaking underground storage tank (LUST) cleanup site, PG&E CAMP #5 located at 7225 HYW 50 in Pollock Pines (State Water Resources Control Board 2019). This site was closed in 1996 and would therefore not create a significant hazard to the public or environment. In addition, the project would not require soil excavation and no structures would be developed. Project impacts would be **less than significant**.

- e) **For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?**

The project area is not located within an airport land use plan area or within 2 miles of a public or public use airport (El Dorado County Transportation Commission 2018). There would be **no impact**.

- f) **Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?**

The project would not include road closures or generate substantial traffic volumes that could create a hazard or slow the movement of vehicles. Therefore, project implementation would not interfere with any adopted emergency response plan or emergency evacuation plan, including any EID emergency response plan or the El Dorado County Operational Area Multi-Hazard Functional Emergency Operations Plan, as implemented by the County Office of Emergency Services (OES) of the County Sheriff's Department. **No impact** would occur.

- g) **Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?**

Project implementation is not anticipated to result in significant fire hazard. The Project involves vegetation management with the intent to reduce the risk of wildfire exposure to people or structures and directly or indirectly reduce the risk of loss, injury, or death involving wildfire. The project sites are located in areas considered a WUI. WUI's are transition zones between human development and wildland areas that could be affected by wildland fire. Weber Reservoir is within the WUI in the communities of Camino and Pollock Pines more than 3,000 habitable structures that could be affected by wildland fire. Sly Park Recreation Area is within the WUI in the community of Pollock Pines with more than 5,000 habitable structures that could be affected by wildland fire. Camp 5 is within the WUI in the communities of Pollock Pines and Fresh Pond with more than 3,000 habitable structures that could be affected by wildland fire.

Implementation of EID's vegetation management project would reduce future fire intensity and severity to the project areas by reducing surface fuels, increasing the height to tree canopy, decreasing crown density, and retaining large fire-resistant trees. Project related activity would return the project area to a managed, fire resistant condition that would benefit local communities and EID's critical infrastructure by create a fire resilient landscape which reduces the rate of spread, duration and intensity of future wildfires. Small-scale burning operations associated with vegetation clearance would follow the procedures set forth in the California Forest Practice Rules to minimize fire risk. Impacts would be **less than significant**.

3.10 HYDROLOGY AND WATER QUALITY

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
X. Hydrology and Water Quality. Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(i) result in substantial erosion or siltation on- or off-site;	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(iv) impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3.10.1 ENVIRONMENTAL SETTING

Climate in the District service area is characterized by sunshine in the summer, moderate to heavy precipitation in the winter, and wide temperature ranges. Strong flows of marine air from the Pacific Ocean result in heavy precipitation in the winter. Precipitation in the summer is generally limited to a few scattered thunderstorms during the summer months. The historical annual average precipitation is approximately 38 inches. Temperatures throughout the service area range from warm in the summer to cold in the winter, with average monthly temperatures of 75°F in July and 42°F in January (Western Regional Climate Center 2019). The District facilities are located within the mid-elevational range of the Sierra Nevada ecoregion, from 2,280 feet above mean sea level (AMSL) at the Weber Reservoir facility to 4,040 feet AMSL at the Flume 46 facility.

The project area lies within two major watersheds: the South Fork American River in the north and the North Fork Consumes River in the south.

The project area is not located within a 100-year floodplain (FEMA 2019).

3.10.2 DISCUSSION

a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

There is the potential for erosion to occur with project implementation that could result in the violation of water quality standards or water discharge requirements. Movement of surface soils will likely occur during the process of clearing the treatment area of vegetation and before new plant cover is established. The amount of soil erosion is influenced by clearance method, soil type, intensity of precipitation, slope angle, and the density of plants debris and litter remaining after treatment.

The project would not require grading of soil to create access roads as work crews can utilize existing roads to access treatment areas. Vegetation clearance would occur by use of powered tools, machinery, and hand tools. No herbicides or other chemical treatments will be applied during the vegetation clearance. Vegetation clearance conducted along steep slopes would take place by crews using hand held equipment rather than motorized machinery. This approach will reduce potential for erosion because steep gradients can accumulate sediment and debris that can mobilize suddenly creating debris flows and severe scouring. Work exclusion areas will be identified around riparian zones in accordance with the Forest Practice Rules. This approach will provide a buffer of land that separates soil disturbed by vegetation clearing and minimize the potential for surface runoff to transport sediment to the drainage and create a potential for increased turbidity.

By following these techniques and complying with the best management practices outlined in the California Forest Practice Rules to minimize erosion and other BMPs, the potential impacts would be reduced to a **less than significant** level.

b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

Project implementation would not involve extraction of groundwater or involve placement of impervious surfaces in an area designated for groundwater recharge. The project would not deplete groundwater supplies and would not interfere substantially with groundwater recharge. **No impact** would occur.

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

(i) Result in substantial erosion or siltation on- or off-site?

Vegetation clearance activities would not alter the course of a stream or river. Project implementation would not increase impervious surfaces. The project would follow California Forest Practice Rules found in Title 14, California Code of Regulations, Chapters 4, 4.5, and 10 that require prescribed activities to reduce soil erosion and siltation of waterways. Therefore, project impacts would be **less than significant**.

(ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite?

Project implementation would not introduce pavement or other impervious surfaces that would increase the rate of flow from surface runoff beyond existing conditions. Project related activity would follow measures set forth in the California Forest Practice Rules to minimize surface runoff. Therefore, the project would not substantially increase the potential for on-site and off-site flooding by increasing the amount of surface runoff through the addition of impervious surfaces. Therefore, the project would have a **less than significant** impact.

(iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

The project does not drain to an existing stormwater drainage system. There would be **no impact**.

(iv) Impede or redirect flood flows?

The project area is not located within a 100-year floodplain (FEMA 2019). Therefore, runoff flows from the project area would not impede or redirect flood flows. There would be **no impact**.

d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

The project area is not located within a 100-year floodplain (FEMA 2019). There are no surface water bodies in the vicinity of the project site that could generate damaging seiches (i.e., sloshing of water in an enclosed or restricted water body). The project would have **no impact**.

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Project operation would not result in conflicts with implementation of a water quality control plan or sustainable groundwater management plan. Vegetation clearance activities would not result in conditions that would alter or contribute to conflicts with an applicable water quality control plan or sustainable groundwater management plan. Vegetation management can enhance ecosystem services, such as improve soil and water quality. In addition, vegetation management can lower the effects of a catastrophic wildfire on water quality, including degradation of water quality as shade is removed, increasing the water temperature and creating the potential for subsequent rain to carry sediment from newly exposed soil into waterways. There would be a **less than significant** impact.

3.11 LAND USE AND PLANNING

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<i>XI. Land Use and Planning. Would the project:</i>				
a) Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3.11.1 ENVIRONMENTAL SETTING

The project area includes 570 acres of District-owned property spanning four District facilities: Weber Reservoir; Sly Park Recreation Area; Camp 5 Maintenance Yard (Camp 5); and Flume 46 on the El Dorado Canal (Flume 46). Weber Dam and Reservoir is sited along the North Fork Weber Creek. The Sly Park Recreation Area project area is within the Pollock Pines community region. Surrounding properties consist of moderately dense residential development to the west and Sierra Pacific Industries and U.S. Forest Service-managed timberlands to the north, east, and south. Camp 5 is surrounded by residential neighborhoods with numerous private homes immediately adjacent to the facilities. Flume 46 is a 0.75-mile long wooden flume that represents a key segment of the El Dorado Canal. It is built into the side of a steep, north-facing slope vegetated by mixed conifer and montane hardwood forest plant communities.

A Forest Management Plan was developed as part of the SPRA Master Plan. The SPRA Master Plan contains design standards and guidelines, including for fuel load management, shore and creek protection, and vegetation management and restoration. SPRA has an ongoing and effective fuels management program that utilizes under-story burning during the fall. Controlling vegetation and maintaining fuel breaks help control canopy openings, minimize vertical and horizontal fuels, and reduce ongoing maintenance needs over time (El Dorado Irrigation District 2007).

3.11.2 DISCUSSION

- a) **Physically divide an established community?**
- b) **Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?**

The following discussion addresses items a) and b) for Land Use and Planning. There would be no new development as part of the project and there would be no change in land use associated with project implementation. The project supports the El Dorado County General Plan Public Health, Safety and Noise Element, Fire Safety Goal 6.2 Fire Hazards to “Minimize fire hazards and risks in both wildland and developed areas”. In addition, all proposed activities must be consistent with the prescribed forest practices for the management area as described in the US Forest Service Land and Resources Management Plan. Vegetation clearance to promote healthy forests and preserve water quality is consistent with this management objective.

All project activities would occur in a manner consistent with the SPRA Master Plan and the California Forest Practice Rules. The project would not conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect and would not physically divide an established community. There would be **no impact**.

3.12 MINERAL RESOURCES

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<i>XII. Mineral Resources. Would the project:</i>				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3.12.1 ENVIRONMENTAL SETTING

According to the California Geological Survey’s Mineral Land Classification of El Dorado County, California (Department of Conservation 2001), the project area is not located in an area designated as a Mineral Resource Zone. There are no mineral extraction sites on or in the vicinity of the project area. The project area is also not included in any Mineral Resources designation of the El Dorado General Plan.

3.12.2 DISCUSSION

- a) **Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?**
- b) **Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?**

The following discussion addresses items a) and b) for Mineral Resources. The project would not result in the loss of availability of a known mineral resource or locally important mineral resources recovery site. The project would have **no impact**.

3.13 NOISE

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<i>XIII. Noise. Would the project result in:</i>				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Generation of excessive vibration or groundborne noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3.13.1 ENVIRONMENTAL SETTING

The project area consists primarily of vegetation areas adjacent to EID facilities with scattered rural residential development adjacent to the project area. The most significant source of noise generated in the project area is associated with vehicular traffic on Highway 50. Other noise sources in the project vicinity include stationary noise sources such as recreational activity in the project area, and intermittent noises from activities at the surrounding EID facilities.

3.13.2 DISCUSSION

a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Proposed project activities would include the use of mechanical mastication equipment, chainsaws, chippers, pole saws, and hand tools. Vegetation clearance would cause short-term and temporary increases in noise levels that could exceed County noise compatibility standards on short term basis. However, the work would only occur during daytime when people are less susceptible to noise and would be temporary in nature. Policy 6.5.1.11 in the El Dorado County General Plan, Health, Safety, and Noise Element states applicable noise standards “shall not apply to those activities associated with actual construction of a project as long as such construction occurs between the hours of 7 a.m. and 7 p.m., Monday through Friday, and 8 a.m. and 5 p.m. on weekends, and on federally-recognized holidays”. In addition, the standards “shall not apply to public projects to alleviate traffic congestion and safety hazards” (El Dorado County 2004). Noise levels are not anticipated to be significant as it would be intermittent throughout the day during the hours of 7:00 am to 7:00 pm, or between 8 a.m. and 5 p.m. on weekends and would only occur for a short period of time.

In addition, noise levels would vary depending on the project area location and equipment being used. Typically, noise may be heard in one area on average for one week until vegetation clearance activities move to different areas. The nearest sensitive receptors would be visitors at the Sly Park Recreational Area and landowners adjacent to an active treatment area. As stated above, activities would be limited to daytime hours when people are less sensitive to noise (7:00 am to 7:00 pm weekday, and 8 a.m. and 5 p.m. on weekends). In addition the activity would generate noise on an intermittently within these time period and would occur at varying locations around the treatment area so no one use is subject to continuous noise generated by project activity. Finally, noise generated by the project would move as specific treatment areas are targeted at each of the sites represent the project area and cease upon completion of the vegetation clearance. The project would not substantially increase noise levels on or near the project site. This impact would be **less than significant**.

b) Generation of excessive vibration or groundborne noise levels?

The project may generate perceptible vibration and groundbourne noise levels in the immediate vicinity. However, proposed activities would be short-term, intermittent, and occur during the hours of 7:00 am to 7:00 pm, or between 8 a.m. and 5 p.m. on weekends. Therefore, the impact would be **less than significant**.

c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

There are no public or private airports within 2 miles of the project area, and the project area is not within an airport land use plan. Therefore, the project would not expose people residing or working in the project area to excessive noise levels. There would be **no impact**.

3.14 POPULATION AND HOUSING

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<i>XIV. Population and Housing. Would the project:</i>				
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3.14.1 ENVIRONMENTAL SETTING

The project area is on District owned property in El Dorado County. Portions of the project area are adjacent to residential areas, however no homes are located in fuel treatment activity areas or within the boundaries of any EID facility.

3.14.2 DISCUSSION

- a) **Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?**
- b) **Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?**

The following discussion addresses items a) and b) for Population and Housing.

Proposed project activities would not include construction of new homes or businesses and would therefore not directly or indirectly induce substantial unplanned population growth, nor would it displace housing or people. There would be **no impact**.

3.15 PUBLIC SERVICES

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XV. Public Services. Would the project:				
a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:				
Fire protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Police protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3.15.1 ENVIRONMENTAL SETTING

The El Dorado County Fire District provides fire protection services to El Dorado County. The Fire District has six staffed and seven unstaffed volunteer fire stations, and 72 uniformed personnel and three support personnel (El Dorado County Fire District 2019). The Fire District responds to structural fires, vehicle accidents, medical aid requests, or any other emergencies. The nearest fire station to the Weber Reservoir and Sly Park Recreation Area project area is El Dorado County Fire Station 18 located at 5785 Sly Park Rd in Pollock Pines. The nearest fire station to Camp 5/ Flume 46 is El Dorado County Fire Station 17 located at 6430 Pony Express Trail in Pollock Pines.

Law enforcement in El Dorado County is provided by the El Dorado County Sheriff’s Department. The Sheriff’s Department operates from its headquarters in Placerville and from substations in South Lake Tahoe, El Dorado Hills, and Georgetown (El Dorado County Sheriff’s Department 2017). The Sheriff’s Department is responsible for managing the OES in El Dorado County. The OES is responsible for planning, response, recovery and mitigation of large-scale emergencies, and it provides a link between local emergency services and the State (El Dorado County Sheriff’s Department 2017). The nearest Sheriff’s substation to the project area is located at 6430 Pony Express Trail in Pollock Pines.

- a) **Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:**

FIRE PROTECTION

The project would not include new housing or businesses that would increase population levels and result in an increase demand for fire protection services and facilities. Implementation of EID's vegetation management project will reduce future fire intensity and severity by reducing surface fuels, increasing the height to tree canopy, decreasing crown density, and retaining large fire-resistant trees. Therefore, the project would not affect the El Dorado County Fire District's response times or other performance objectives, and would not result in construction of new or expansion of existing fire protection facilities. **No impact** would occur.

POLICE PROTECTION

The project would not increase the population in the project area because no housing is proposed. Project related activity would not increase demand for police protection services or require additional Sheriff's Department staffing to maintain its officer-to-population service ratio. Therefore, the project would not generate the need for construction of new or expansion of existing police protection facilities. **No impact** would occur.

SCHOOLS

Project implementation would not create any new housing that would generate new students or increase the demand for school services and facilities. **No impact** would occur.

PARKS

The project would not increase the population in the project area because of new housing or employment opportunities. Therefore, the proposed project would not increase the use of existing neighborhood or community parks or require construction of new parks to meet the County's parkland standard. **No impact** would occur.

OTHER PUBLIC FACILITIES

The project would not increase the population in the project area as a result of new housing or employment opportunities. Therefore, project operation would not increase demand for other public facilities. The project would have **no impact**.

3.16 RECREATION

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<i>XVI. Recreation. Would the project:</i>				
a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3.16.1 ENVIRONMENTAL SETTING

Sly Park Recreation Area (SPRA) is popular and heavily used for recreation from May through early September by local residents and visitors from outside of the area. Recreational use is more limited at other times of the year, and visitors during these periods consist primarily of local residents. SPRA includes Jenkinson Lake, which provides recreational opportunities to visitors. Other assets in the SPRA include twelve campgrounds, trails, office buildings, parking areas, roadways, and restrooms.

3.16.2 DISCUSSION

- a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?**

Project implementation would not increase the population in the project area because of new housing or employment opportunities. The project would not create additional recreational demand that would increase the use of existing neighborhood and regional parks or other recreational facilities. **No impact** would occur.

- b) Include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?**

The project would not include recreational facilities or create additional recreational demand that would require the construction or expansion of recreational facilities. **No impact** would occur.

3.17 TRANSPORTATION

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<i>XVI. Transportation. Would the project:</i>				
a) Conflict with a program plan, ordinance, or policy the circulation system, including transit, roadway, bicycle and pedestrian facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially increase hazards due to geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3.17.1 ENVIRONMENTAL SETTING

The project area covers 570 acres of District-owned property spanning four District facilities located in El Dorado County. U.S. Highway 50 provides regional access to these communities and the project areas. Access would be provided to Weber Reservoir at two points. The south access point: would be taken from an existing unpaved road that runs parallel to Weber Reservoir. Access would also be provided from private property to the north where the landowner has granted access and staging of equipment on an existing unpaved road way and turnout area. Access to Sly Park Recreation Area would be provided by paved and unpaved roads that occur throughout the park. Access to Camp5/Flume 46 would be provided by existing service roads.

3.17.2 DISCUSSION

a) Conflict with a program plan, ordinance, or policy the circulation system, including transit, roadway, bicycle and pedestrian facilities?

Project implementation would not introduce any new land uses or activities in the project area that would generate long-term increases in traffic volume. Potential traffic increases would be limited to intermittent travel to and from project sites over a limited period of the years 2019–2021. There would be no street or lane closures and no new roads would be constructed as part of the project.

Vehicle trips associated with transportation of crews and equipment to the treatment area would be generated for a short-term and would cease at project completion. The project would not generate a volume of trips that is considered substantial in relation to the existing traffic load and capacity of the street system. Therefore, the project would not interfere with a plan program or policy directed at the circulation system. The project would not conflict with adopted applicable policies or plans related to the performance of the circulation system. The impact would be **less than significant**.

b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?

CEQA Guidelines Section 15064.3, subdivision (b) Criteria for Analyzing Transportation Impacts includes provisions for evaluation a project's transportation impacts. by using the vehicles miles traveled (VMT) metric. According to the guidelines, a lead agency may elect to be governed by the provisions of Section 15064.3 immediately; or beginning July 1, 2020, when the provisions apply statewide. CEQA Guidelines Section 15064.3, subdivision (b)(3) allows for a qualitative analysis of potential impacts related to VMT. The project would not require a change to the existing land use designation. Operations following project completion would change compared to existing conditions. Project implementation would not result in long-term increases in vehicle miles traveled. Therefore, **no impact** would occur.

c) Substantially increase hazards due to geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

The project would not change the existing design features of roads and highways in the project vicinity. Slow-moving trucks entering and exiting at this location could pose a hazard to other vehicles traveling on the area roadways. However, proposed activities would be temporary and access to the sites is from existing roadways with adequate line of site, so project implementation would not substantially increase hazards due to a design feature or incompatible use. The project would have a **less than significant** impact.

d) Result in inadequate emergency access?

The project would not result in inadequate emergency access. Slow-moving trucks entering and exiting the project area could slightly delay the movement of emergency vehicles. However, the trucks would typically pull to the side of the road when emergency vehicles use their sirens. Additionally, vehicle traffic would be short-term and intermittent and would only contribute a small percentage of the overall traffic. Street closures would not be required during construction. Therefore, the project would not result in inadequate emergency access during project construction. The project would have a **less than significant** impact.

3.18 TRIBAL CULTURAL RESOURCES

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<i>XVIII. Tribal Cultural Resources. Would the project:</i>				
a) Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geologically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
i) Listed or eligible for listed in the California Register of Historical Resources, or in local register of historical resources as defined in Public Resources Code section 5020.1(k)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3.18.1 ENVIRONMENTAL SETTING

Tribal cultural resources are defined in CEQA as a site, feature, place, cultural landscape, sacred place, or object with cultural value to a California Native American tribe, which may include non-unique archaeological resources previously subject to limited review under CEQA.

ASSEMBLY BILL 52 NATIVE AMERICAN CONSULTATION

AB 52 requires the lead agency to begin consultation with any California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project if (1) the California Native American tribe requested to the lead agency, in writing, to be informed by the lead agency through formal notification of proposed projects in the geographic area that is traditionally and culturally affiliated with the tribe; and (2) the California Native American tribe responds, in writing, within 30 days of receipt of the formal notification and requests the consultation (Public Resources Code Section 21080.3.1[d]).

3.18.2 DISCUSSION

- a) **Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geologically defined in terms of the size and scope of the landscape,**

sacred place, or object with cultural value to a California Native American tribe, and that is:

- i) Listed or eligible for listed in the California Register of Historical Resources, or in local register of historical resources as defined in Public Resources Code section 5020.1(k)?**
- ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?**

Tribal consultation was conducted by EID. On October 10, 2019, tribes requesting consultation pursuant to AB 52 were notified of the project. Tribes notified include United Auburn Indian Community of the Auburn Rancheria, Wopumnes Nisenan-Mewuk Nation of El Dorado County, Torres Martinez Desert Cahuilla Indians, and Wilton Rancheria. United Auburn Indian Community of the Auburn Rancheria (UAIC) responded and requested consultation. On March 20, 2019, EID met with the United Auburn Indian Community of the Auburn Rancheria and toured the Sly Park and Weber Reservoir sites. No tribal cultural resources within the project area have been identified as a result of this consultation.

As noted in checklist response 3.5 “Cultural Resources” three previously conducted cultural resources inventories (NCIC report numbers 464, 8752, and 9003) conducted within the Sly Park Recreation Area identified prehistoric artifacts that are NRHP Eligible. While located in Sly Park, these artifacts are outside the proposed treatment area. Though unlikely, soil disturbance during project activities could damage previously unrecorded cultural resources. If buried historical or archaeological resources were inadvertently discovered and impacted during project implementation, this would be a potentially significant impact. Mitigation Measure CUL-1 found in Section 3.5 would be implemented to reduce this potentially significant impact to a **less than significant** level.

3.19 UTILITIES AND SERVICE SYSTEMS

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<i>XIX. Utilities and Service Systems. Would the project:</i>				
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

3.19.1 ENVIRONMENTAL SETTING

The project would not be served by any water, wastewater, storm water, electric power, natural gas, or telecommunication facilities.

- a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?**

The project would not include any new development that would require relocation or construction of new or expanded municipal wastewater treatment, stormwater drainage, natural gas, or telecommunications facilities. **No impact** would occur.

- b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?**

The project would not include new development that would require water supplies. **No impact** would occur.

- c) **Result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?**

The project would not generate new wastewater flows. Therefore, the project would not exceed a wastewater treatment provider's capacity. **No impact** would occur.

- d) **Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?**
- e) **Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?**

No solid waste would be generated by the project. **No impact** would occur.

3.20 WILDFIRE

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<i>XX. Wildfire – If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:</i>				
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

3.20.1 ENVIRONMENTAL SETTING

The long, hot, dry summers in El Dorado County, combined with poor road access, inadequate clearance between structures and vegetation, flammable vegetation, and steep topography result in severe seasonal wildfire conditions every year. The California Public Resources Code requires the designation of State Responsible Areas (SRAs), which are identified based on cover, beneficial water uses, probable erosion damage and fire risks, and hazards. In such areas, CAL FIRE is required to delineate three hazard ranges: moderate, high, and very high. CAL FIRE designates the Weber Reservoir, Sly Park Recreation Area, and Camp 5/Flume 46 project areas primarily in a Very High, High, or Moderate Fire Hazard Severity Zone in a State Responsibility Area.

The project sites are located in areas considered a WUI. WUI’s are transition zones between human development and wildland areas that could be affected by wildland fire. Vegetation management activities can prevent wildfires and protect disadvantaged communities, infrastructure, and forest resources within the WUI. The project sites are considered WUI defense zones where the focus is to protect life and property.

3.20.2 DISCUSSION

a) Substantially impair an adopted emergency response plan or emergency evacuation plan?

Project implementation would not impair an adopted emergency response plan or emergency evacuation plan. See Section 9, Hazards and Hazardous Materials, item f. There would be **no impact**.

b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

The project would support the goals and objectives of numerous strategic plans in the area including: California Strategic Fire Plan; 2012 Strategic Fire Plan for Amador-El Dorado- Sacramento Alpine Unit; 2015 CAL FIRE Amador- El Dorado Ranger Unit Strategic Fire Plan; National Cohesive Wildland Fire Management Strategy; and El Dorado County Community Wildfire Protection Plan (CWPP).

The goal of the project is to return the project areas to a more managed, fire resistant condition and to protect local communities, EID's critical infrastructure, and water quality from the effects of catastrophic wildfire. Vegetation management activities help contain potential wildfires and facilitate long-term, collaborative ecosystems stewardships to protect critical and domestic water supplies and nearby homes and commercial structures. Therefore, the project would not exacerbate wildfire risk, or expose project occupants to pollutant concentrations from a wildfire or uncontrolled spread of a wildfire. The impact would be **less than significant**.

c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

The project would not require the installation or maintenance of additional associated infrastructure. Therefore, the project would not exacerbate fire risk. The impact would be **less than significant**.

d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

The project would not include development that would expose people or structures to significant risks associated with wildfires, including downslope or downstream flooding or landslides, as a result of runoff, post-fire instability, or drainage changes. Vegetation management decreases the potential for damage from flooding and siltation (CAL FIRE 2019). The impact would be **less than significant**.

3.21 MANDATORY FINDINGS OF SIGNIFICANCE

ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XXI. Mandatory Findings of Significance.				
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Does the project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Authority: Public Resources Code Sections 21083 and 21083.05.

Reference: Government Code Section 65088.4; Public Resources Code Sections 21080(c), 21080.1, 21080.3, 21083, 21083.05, 21083.3, 21093, 21094, 21095 and 21151; *Sundstrom v. County of Mendocino* (1988) 202 Cal.App.3d 296; *Leonoff v. Monterey Board of Supervisors* (1990) 222 Cal.App.3d 1337; *Eureka Citizens for Responsible Govt. v. City of Eureka* (2007) 147 Cal.App.4th 357; *Protect the Historic Amador Waterways v. Amador Water Agency* (2004) 116 Cal.App.4th at 1109; *San Franciscans Upholding the Downtown Plan v. City and County of San Francisco* (2002) 102 Cal.App.4th 656.

3.21.1 DISCUSSION

- a) **Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?**

The project would not substantially, reduce the habitat of fish or wildlife species, or cause a fish or wildlife population to drop below self-sustaining levels. Implementation of the mitigation measures presented in Sections 3.5 and 3.6 would mitigate potential significant impacts that would substantially degrade the quality of the environment, or impact biological or cultural resources. The potential impacts identified in this document would be **less than significant** with mitigation incorporated.

- b) Does the project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)**

The project would not have impacts that would be cumulatively considerable. The temporary and intermittent nature of the project’s impacts and negligible long-term effects would result in **no impacts, less than significant impacts, or less than significant impact with mitigation**. No known past, present, or future projects in the project area would contribute in a cumulative manner to effects on the environment.

- c) Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?**

The project outcome would promote a healthy forest that is less prone to catastrophic wildfires and would support the objectives of state and local fire plans intended to protect the nearby communities of Pollock Pines and Camino. This impact would be **less than significant**.

4 REFERENCES

- AECOM. 2015 (December). Results of Special-Status Plant Surveys for the Flume Improvement Project. Letter report to Brian Deason, hydroelectric compliance analyst, El Dorado Irrigation District. Placerville, CA.
- AECOM. 2016 (September). Habitat Assessment for Special-status Wildlife for the El Dorado Irrigation District Flume Improvement Project (Flumes 38, 39/40, 44 ad 47c), El Dorado County, Placerville, CA.
- Air Resources Board. 2002. El Dorado County Air Pollution Control District Smoke Management Program. Available: <https://www.arb.ca.gov/smp/district/EIDC.pdf>. Accessed May 2019.
- Baldwin, B. G., D. H. Goldman, D. J. Kiel, R. Patterson, T. J. Rosatti, and D. H. Wilken. 2012. *The Jepson Manual: Vascular Plants of California. Second edition, revised and expanded*. Berkeley: University of California Press.
- CAL FIRE. *See* California Department of Forestry and Fire Protection.
- California Department of Fish and Wildlife. 2018. Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities. State of California, Natural Resources Agency. March 20, 2018.
- CDFW. 2018b. California Natural Community List—California Sensitive Natural Communities. October 15, 2018
- California Department of Fish and Wildlife. 2019a. Wildlife Habitats – California Wildlife Habitat Relationships System. Biogeographic Data Branch. Available at <https://www.wildlife.ca.gov/Data/CWHR/Wildlife-Habitats>. Accessed: May 2019.
- California Department of Fish and Wildlife. 2019b. RareFind 5 (Commercial Version): An Internet Application ‘for the Use of the California Department of Fish and Wildlife’s Natural Diversity Database. Biogeographic Data Branch, Sacramento, CA. Available: <http://www.dfg.ca.gov/biogeodata/cnddb/mapsanddata.asp>. Accessed: March 2019.
- California Department of Toxic Substances Control. 2019.
- California Native Plant Society, Rare Plant Program. 2019. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Website <http://www.rareplants.cnps.org> Accessed February 06, 2019.
- Caltrans. *See* California Department of Transportation.
- California Department of Forestry and Fire Protection. 2007. El Dorado County Very High Fire Hazard Severity Zones in Locally Responsible Areas.
- _____. 2007. El Dorado County Very High Fire Hazard Severity Zones in State Responsible Areas.

- _____. 2017. California Forest Practice Rules. Prepared for Licensed Timber Operator and California Registered Professional Foresters.
- _____. 2018. CAL FIRE Amador-El Dorado Unit Strategic Fire Plan. Available: <http://cdfdata.fire.ca.gov/pub/fireplan/fpupload/fpppdf1620.pdf>. Accessed May 2019.
- CAL FIRE. 2014. *King Fire Incident Information*. Available at cdfdata.fire.ca.gov/incidents. Last modified on October 09, 2014. Accessed 31 May 2019.
- California Department of Transportation. 2019. *California Scenic Highway Mapping System Scenic Route 2019*. Available: http://www.dot.ca.gov/hq/LandArch/16_livability/scenic_highways/index.htm. Accessed May 2019.
- Camp, C. L. 1918. Excavations of Burrows of the Rodent Aplodontia, with Observations on the Habits of the Animal. University of California Publication, Berkeley, California.
- CDFW. See California Department of Fish and Wildlife
- CNPS. See California Native Plant Society.
- Department of Conservation. 2016a. El Dorado County Important Farmland 2016 Map. Accessed May 2019.
- _____. 2016b. El Dorado County Williamson Act FY 2015/2016. Accessed May 2019.
- _____. 2010. Table 4. Cities and Counties Affected by Alquist-Priolo Earthquake Fault Zones as of January 2010. Available: <https://www.conservation.ca.gov/cgs/Pages/Earthquakes/affected.aspx>. Accessed May 2019.
- _____. 2001. Mineral Land Classification of El Dorado County, California. CGS Open File Report 2000-03.
- DOC. See Department of Conservation.
- DTSC See California Department of Toxic Substances Control.
- eBird. 2012. eBird: An online database of bird distribution and abundance. <https://ebird.org/barchart?r=L295050&yr=last10&m=> eBird, Ithaca, New York. Available: <http://www.ebird.org>. Accessed April 1, 2019.
- El Dorado County. 2002. Fire Districts in El Dorado County Map.
- _____. 2003. El Dorado County General Plan, Visual Resources. Available: https://www.edcgov.us/government/planning/drafteir/volume1/documents/V1_53.pdf . Accessed May 2019.
- _____. 2003. El Dorado County General Plan EIR. Available: [https://www.edcgov.us/Government/planning/pages/draft_environmental_impact_report_\(deir\).aspx](https://www.edcgov.us/Government/planning/pages/draft_environmental_impact_report_(deir).aspx) . Accessed May 2019.

- _____. 2004. Amended 2015. El Dorado County General Plan Public Health and Safety Element. Available: https://www.edcgov.us/Government/planning/adoptedgeneralplan/Documents/6_health-safety.pdf . Accessed May 2019.
- El Dorado County Air Quality Management District. 2015 (January). Asbestos Review Areas, Western Slope, County of El Dorado, California. Available: <https://www.edcgov.us/Government/AirQualityManagement/documents/asbestos%20review%20map%201-22-15.pdf>. Accessed May 2019.
- El Dorado Irrigation District. 2007. Sly Park Recreation Area Master Plan. Accessed May 2019.
- _____. 2009. (February 25). Biological Resources Analysis – Flume Replacement Program, El Dorado County, California. Prepared by Foothill Associates, Rocklin, CA.
- _____. 2011. (June 1). Biological Resources Analysis– El Dorado Canal 2011– 2012 Flume Replacement Program Project, El Dorado County, California. Prepared by Foothill Associates, Rocklin, CA.
- EID *See* El Dorado Irrigation District.
- El Dorado County Transportation Commission. 2012. El Dorado County airport land use compatibility plan. Available: <https://www.edctc.org/aviation> . Accessed May 2019.
- El Dorado County Sheriff’s Department. 2017. *El Dorado County Sheriff’s Office Annual Report*. Available: [https://edcgov.us/Government/BOS/Documents/District%201/2017%20Annual%20Report%20\(3\).pdf](https://edcgov.us/Government/BOS/Documents/District%201/2017%20Annual%20Report%20(3).pdf). Accessed May 2019.
- Federal Emergency Management Agency. 2019. FEMA Flood Map. Available: <https://msc.fema.gov/portal/search?AddressQuery=pollock%20pines#searchresultsanchor> . Accessed May 2019.
- Foothill Associates. 2007. Sly Park Recreation Area Master Plan. Prepared for Eldorado Irrigation District, January 2007.
- iNaturalist 2019
- Intergovernmental Panel on Climate Change (IPCC) 2014. Climate Change 2014: Synthesis Report. Contribution of Working Groups I, II, and III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change.
- Natural Resources Conservation Service. 2017. SoilWeb Earth. USDA-NCSS SSURGO Soil Survey Data. streaming interface provided by California Soil Resource Lab, UC Davis. Available: <https://casoilresource.lawr.ucdavis.edu/soilweb-apps/>. Last Modified: August 21, 2017. Accessed April, 2019.
- NRCS. *See* U.S. Natural Resources Conservation Service.
- National Oceanic and Atmospheric Administration. 2019. National Centers for Environmental Information, Climate Data Online Search. Available: www.ncdc.noaa.gov. Accessed: May 2019.

NOAA. *See* National Oceanic and Atmospheric Administration.

Sawyer, J. O., T. Keeler-Wolf, J. M. Evens. 2009. A Manual of California Vegetation (Second Edition).
California Native Plant Society and California Department of Fish and Game.

State Water Resources Control Board. 2019. Geotracker. Available:
https://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0601700008 . Accessed May 2019.

SWRCB. *See* State Water Resources Control Board.

U.S. Geologic Survey. 2019. Interactive Fault Map. Available:
<https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=5a6038b3a1684561a9b0aadf88412fcf> .
Accessed May 2019.

U.S. Fish and Wildlife Service. 2018. Threatened and Endangered Species with Critical Habitat. Online mapper.

_____. 2019a. Information for Planning and Conservation. Available: <http://ecos.fws.gov/ipac/>. Accessed
November 1, 2017.

_____. 2019b. National Wetlands Inventory Wetlands Mapper. Last updated October 15, 2018. Available:
<http://www.fws.gov/wetlands/Data/Mapper.html>. Accessed April 10, 2019.

U.S. Geological Survey. 2013. Camino, Sly Park, Pollock Pines, Riverton, Garden Valley, Placerville,
Fiddletown, Aukum, Omo Ranch, Caldor, Old Iron Mountain, Leek Spring Hill, Kyburz, Loon Lake,
Robbs Peak, Devil Peak, Tunnel Hill, and Slate Mountain quadrangle maps.

United Nations Climate Change Annual Report 2013

USFS 1989

APPENDIX A

Air Emissions-CalEEMod Output Models



**California Air Resources Board
 Calculator for the
 California Department of Forestry & Fire Protection
 Forest Health Grant Program
 Quantification Methodology
 Fiscal Year 2017-2018**

Definitions Worksheet

Reforestation	Carbon within the treatment boundary at the end of the project with reforestation (MT C)	Enter the carbon stored in existing and planted standing live and dead trees within the treatment boundary at the end of the project in reforestation project scenario (from COLE or FVS). If cell is not applicable, leave blank.
	Carbon within the treatment boundary at the end of the project without reforestation (MT C)	Enter the carbon stored in existing standing live and dead trees within the treatment boundary at the end of the project in reforestation baseline scenario (from Table 10 in quantification methodology or FVS). If cell is not applicable, leave blank.
	Quantity of trees to be planted in reforestation activity (number of trees)	Enter the number of trees to be planted as part of the reforestation project activity. If cell is not applicable, leave blank.
	Area subject to reforestation (acres)	Enter the number of acres within the treatment boundary to be planted with trees as part of the reforestation activity. If cell is not applicable, leave blank.
	Area subject to site preparation (acres)	Enter the acres within the treatment boundary subject to site preparation. If cell is not applicable, leave blank.
	Level of brush cover (select from options)	If site preparation is planned, select from the drop down menu the level of brush cover (light: 0-25% brush cover, medium: >25%-50% dense brush cover, or heavy: >50% brush cover and/or stump removal) that best describes land cover of area subject to site preparation prior to project implementation (used to account for mobile source combustion emissions). If cell is not applicable, leave blank.
	Land cover type (select from options)	If site preparation is planned, select from the drop down menu the land cover type (grass, light to medium shrubs, or heavy shrubs) that best describes land cover prior to project implementation. If cell is not applicable, leave blank.
Pest Management	Area within the pest management treatment boundary (acres)	Enter the number of acres within the treatment boundary of the pest management activity. If cell is not applicable, leave blank.
	Area within the pest management impact boundary (acres)	Enter the number of acres within the impact boundary of the pest management activity. If cell is not applicable, leave blank.
	Carbon within the treatment boundary at the end of the project without disturbance or pest management treatment (MT C)	Enter the carbon stored in standing live trees within the treatment boundary at the end of the project assuming no pest management treatment and no threat from pests or disease (from COLE or FVS). If cell is not applicable, leave blank.
	Carbon within the impact boundary at the end of the project without disturbance or pest management treatment (MT C)	Enter the carbon stored in standing live trees within the impact boundary at the end of the project assuming no pest management treatment and no threat from pests or disease (from COLE or FVS). If cell is not applicable, leave blank.
	Percentage of treatment and impact boundaries at risk with pest management treatment (%)	Enter the percentage of treed area or basal area within the treatment and impact boundaries that remains at risk from pests and disease within a 10-year time frame with pest management treatment. Applicants may provide site- and treatment-specific estimates sourced from published, peer-reviewed literature directly applicable to the project site or from a Registered Professional Forester familiar with the threat facing the project site and proposed treatments. At a minimum, projects must consider the following when determining the baseline and project mortality rates within the project site: the local extent and scale of the epidemic, the type of treatment to be implemented, the species threatened by the pest or disease, the species composition and density within the project site, whether the pest is native or exotic, and the climate of the project site. If cell is not applicable, leave blank.
	Percentage of treatment and impact boundaries at risk without pest management treatment (%)	Enter the percentage of treed area or basal area within the treatment and impact boundaries at risk from pests and disease within a 10-year time frame without pest management treatment. Applicants may provide 1) site-specific estimates sourced from the USFS National Insect and Disease Risk Map (NIDRM), 2) site-specific estimates sourced from published, peer-reviewed literature directly applicable to the project site, or 3) site-specific estimates from a Registered Professional Forester familiar with the threat facing the project site. At a minimum, projects must consider the following when determining the baseline and project mortality rates within the project site: the local extent and scale of the epidemic, the type of treatment to be implemented, the species threatened by the pest or disease, the species composition and density within the project site, whether the pest is native or exotic, and the climate of the project site. If cell is not applicable, leave blank.
	Carbon removed as part of pest management treatment (MT C)	Enter the amount of standing live tree carbon to be removed from within the treatment boundary as part of pest management treatment. Applicants estimate the quantity of standing live tree carbon to be removed by analyzing current stand conditions and proposed treatments to be implemented. If cell is not applicable, leave blank.
Fuels Reduction	Biomass removed via mechanical treatments (BDT)	Enter the amount of biomass to be removed from within the treatment boundary via mechanical treatments (used to account for mobile source combustion emissions). For the purposes of this quantification methodology, "biomass" refers to both merchantable timber and woody waste material. If cell is not applicable, leave blank.
	Area within the treatment boundary (acres)	Enter the number of acres within the treatment boundary of the fuels reduction activity. If cell is not applicable, leave blank.
	Annual probability of fire occurrence (%)	Enter the annual probability that area within the treatment and impact boundaries will be subject to wildfire disturbance (mean probability from the FRAP Fire Probability for Carbon Accounting map tool; see Step 3.C in Forest Health Program Quantification Methodology for further information). If cell is not applicable, leave blank.
	Effective period for fuels reduction treatment (Years)	Enter the length of time fuel reduction treatment is expected to be effective at modifying fire behavior (maximum of 25 years). Applicants can determine the effective period based on modeled or observed change in fire behavior as a result of the treatment and/or the professional judgement of the Registered Professional Forester or Certified Silviculturist designing the treatment. If cell is not applicable, leave blank.
	Carbon within the treatment boundary at the end of the project with fuels reduction treatment but without fire disturbance (MT C)	Enter the carbon stored in standing live trees within the treatment boundary at the end of the project assuming no disturbance from wildfire and fuels reduction treatment was implemented (from FVS). If cell is not applicable, leave blank.
	Carbon within the treatment boundary at the end of the project with fuels reduction treatment and with fire disturbance (MT C)	Enter the carbon stored in standing live trees within the treatment boundary at the end of the project assuming a disturbance from wildfire and fuels reduction treatment was implemented (from FVS and FEE-FVS). Inclusion of carbon stock estimates within impact boundary is optional. If cell is not applicable, leave blank.
	Carbon within the treatment boundary at the end of the project without fuels reduction treatment and without fire disturbance (MT C)	Enter the carbon stored in standing live trees within the treatment boundary at the end of the project assuming no disturbance from wildfire and no fuels reduction treatment (from FVS). If cell is not applicable, leave blank.
	Carbon within the treatment boundary at the end of the project without fuels reduction treatment but with fire disturbance (MT C)	Enter the carbon stored in standing live trees within the treatment boundary at the end of the project assuming a disturbance from wildfire and no fuels reduction treatment (from FVS and FFE-FVS). If cell is not applicable, leave blank.
	Biomass removed via mechanical treatments (BDT)	Enter the amount of biomass removed from within the treatment boundary via mechanical treatment (used to account for mobile source combustion emissions). Applicants estimate the quantity of biomass to be removed via mechanical treatment by analyzing current stand conditions and proposed treatments to be implemented. For the purposes of this quantification methodology, "biomass" refers to both merchantable timber and woody waste material. If cell is not applicable, leave blank.
	For applicants who choose to include the impact boundary for fuels reduction activities	
	Area within the impact boundary (acres)	Enter the number of acres within the impact boundary of the fuels reduction activity. If cell is not applicable, leave blank.
	Carbon within the impact boundary at the end of the project without fire disturbance (optional) (MT C)	Enter the carbon stored in standing live trees within the impact boundary at the end of the project assuming no disturbance from wildfire (from FVS). Inclusion of carbon stock estimates within impact boundary is optional. If cell is not applicable, leave blank.
	Carbon within the impact boundary at the end of the project without fuels reduction treatment but with fire disturbance (optional) (MT C)	Enter the carbon stored in standing live trees within the impact boundary at the end of the project assuming a disturbance from wildfire and no fuels reduction treatment (from FVS and FlamMap). Inclusion of carbon stock estimates within impact boundary is optional. If cell is not applicable, leave blank.
	Proportion of impact boundary likely to burn at high severity without fuels reduction treatment (optional) (%)	Enter the proportion of area within the impact boundary (%) with >50% probability of experiencing high flame lengths (>8 ft), based on Monte Carlo simulations of wildfire across the landscape without fuels reduction treatment (from FlamMap). Inclusion of carbon stock estimates within impact boundary is optional. If cell is not applicable, leave blank.
	Proportion of impact boundary likely to burn at high severity with fuels reduction treatment (optional) (%)	Enter the proportion of area within the impact boundary (%) with >50% probability of experiencing high flame lengths (>8 ft), based on Monte Carlo simulations of wildfire across the landscape with fuels reduction treatment (from FlamMap). Inclusion of carbon stock estimates within impact boundary is optional. If cell is not applicable, leave blank.



California Air Resources Board
Calculator for the
California Department of Forestry & Fire Protection
Forest Health Grant Program
Quantification Methodology
Fiscal Year 2017-2018

Definitions Worksheet

Forest Conservation: Avoided Conversion Easement	Area of the treatment boundary (acres)	Enter the acres within the easement. If cell is not applicable, leave blank.
	Area of the treatment boundary at risk of conversion (acres)	Enter the acres within the easement that are at risk of conversion to non-forest use. If cell is not applicable, leave blank.
	Carbon within the treatment boundary at the end of the project with the conservation easement (MT C)	Enter the carbon stored in standing live and dead trees within the treatment boundary at the end of the project with the conservation easement (from COLE or FVS). If cell is not applicable, leave blank.
	Type of conversion threat	Select from the drop down menu the type of conversion threat facing the land. If cell is not applicable, leave blank.
	If conversion threat type is residential, number of unique parcels that would be formed in the at-risk area (parcels)	If conversion threat type is residential, enter the number of parcels, or home lots, that the land would be divided into within the area at-risk of conversion. If cell is not applicable, leave blank.
	Biomass that would be removed from within the conservation treatment boundary and utilized without the conservation easement (BDT)	Enter the amount of biomass that would be removed from within the treatment boundary and utilized for wood products, electricity generation via combustion, and electricity generation via gasification. Estimate biomass to be utilized if land were converted without the conservation easement. Provide separate estimates for each method of utilization. Applicants estimate the quantity of biomass to be utilized if the area were converted by analyzing the amount of biomass to be removed, based on current stand conditions, and percentage of removed biomass expected to be sent to mill or biomass facility. For the purposes of this quantification methodology, "biomass" refers to both merchantable timber and woody waste material. If cell is not applicable, leave blank.
	Biomass that is expected to be removed from within the conservation treatment boundary and utilized with the conservation easement (BDT)	Enter the amount of biomass that is expected to be removed from within the treatment boundary and utilized for wood products, electricity generation via combustion, and electricity generation via gasification. Estimate biomass to be utilized with the conservation easement during the 50-80 year project but after project closeout (i.e., biomass removal not funded with GGRF but as a result of the area continuing to operate as a working forest). Provide separate estimates for each method of utilization. Applicants estimate the quantity of biomass to be utilized during the 50-80 year project (after project closeout) if the area were protected by analyzing recent harvesting trends on the land and taking into account any new practices being introduced by the terms of the easement. For the purposes of this quantification methodology, "biomass" refers to both merchantable timber and woody waste material. If cell is not applicable, leave blank.
Forest Conservation: Forest Management Easement	Area of the treatment boundary (acres)	Enter the acres within the easement. If cell is not applicable, leave blank.
	Area of treatment boundary subject to active forest management prescriptions (acres)	Enter the acres within the treatment boundary that are subject to active forest management prescriptions through the conservation easement. If cell is not applicable, leave blank.
	Carbon within the active forest management area at the end of the project without the conservation easement (MT C)	Enter the carbon stored in standing live and dead trees within the active forest management portion of the easement at the end of the project without the conservation easement (from FVS). If cell is not applicable, leave blank.
	Carbon within the active forest management area at the end of the project with the conservation easement (MT C)	Enter the carbon stored in standing live and dead trees within the active forest management portion of the easement at the end of the project with the conservation easement (from FVS). If cell is not applicable, leave blank.
	Biomass that would be removed from within the active forest management area and utilized for wood products without the easement (BDT)	Enter the amount of biomass that would be removed from within the active forest management portion of the easement and utilized for wood products, electricity generation via combustion, and electricity generation via gasification. Estimate biomass that would be utilized if land were converted without the conservation easement. Provide separate estimates for each method of utilization. Applicants estimate the quantity of biomass to be utilized if the area were converted by analyzing the amount of biomass to be removed, based on current stand conditions, and percentage of removed biomass expected to be sent to mill or biomass facility. For the purposes of this quantification methodology, "biomass" refers to both merchantable timber and woody waste material. If cell is not applicable, leave blank.
	Biomass that would be removed from within the active forest management area and utilized for wood products without the easement (BDT)	Enter the amount of biomass that is expected to be removed from within the active forest management portion of the easement and utilized for wood products, electricity generation via combustion, and electricity generation via gasification. Estimate biomass to be utilized with the conservation easement during the 50-80 year project but after project closeout (i.e., biomass removal not funded with GGRF but as a result of the area continuing to operate as a working forest). Provide separate estimates for each method of utilization. Applicants estimate the quantity of biomass to be utilized during the 50-80 year project (after project closeout) if the area were protected by analyzing recent harvesting trends on the land and taking into account any new practices being introduced by the terms of the easement. For the purposes of this quantification methodology, "biomass" refers to both merchantable timber and woody waste material. If cell is not applicable, leave blank.
Biomass Utilization	For biomass utilization activities that send biomass to a mill:	
	Biomass to be removed from the project area as part of implementing reforestation, pest management, or fuels reduction activities and delivered to a mill (BDT)	Enter the total amount of biomass to be removed from the project area as a result of implementing forest health project activities (i.e., biomass removed as part of site preparation, brush removal, manual or mechanical thinning, etc.) and delivered to a mill. For the purposes of this quantification methodology, "biomass" refers to both merchantable timber and woody waste material. If cell is not applicable, leave blank.
	Mill efficiency (%)	Applicants can enter either the actual mill efficiency from the mill where trees will be delivered, supported with documentation, or the appropriate default mill efficiency based on the type of wood provided in Table 13 of the quantification methodology. If trees will be delivered to more than one mill with different efficiencies, applicants may provide a weighted mill efficiency. If cell is not applicable, leave blank.
	Wood product class (%)	Enter the percent of removed biomass that will go into each wood product class category (i.e., softwood lumber, hardwood lumber, softwood plywood, oriented strandboard, nonstructural panels, paper, and miscellaneous products. If not available from the mill that wood will be delivered to, assume that 100% of the biomass goes into "miscellaneous products." If cell is not applicable, leave blank.
	For biomass utilization activities that send biomass to a biomass energy facility:	
	Biomass to be removed from the project area as a result of implementing forest health project activities and delivered to a biomass facility generating electricity via combustion (BDT)	Enter the total amount of biomass to be removed from the project area as a result of implementing forest health project activities (i.e., biomass removed as part of site preparation, brush removal, manual or mechanical thinning, etc.) and delivered to a biomass facility generating electricity via combustion. For the purposes of this quantification methodology, "biomass" refers to both merchantable timber and woody waste material. If cell is not applicable, leave blank.
	Biomass to be removed from the project area as a result of implementing forest health project activities and delivered to a biomass facility generating electricity via gasification (BDT)	Enter the total amount of biomass to be removed from the project area as a result of implementing forest health project activities (i.e., biomass removed as part of site preparation, brush removal, manual or mechanical thinning, etc.) and delivered to a biomass facility generating electricity via gasification. For the purposes of this quantification methodology, "biomass" refers to both merchantable timber and woody waste material. If cell is not applicable, leave blank.
	For projects that facilitate the utilization of biomass that would otherwise be removed from outside the project area without GGRF funding NOTE: This section only applies to activities that utilize biomass removed as part of management practices not associated with the project (i.e., the forest treatment was not funded by the GGRF grant but complementary services such as transportation to a biomass facility or mill is funded with GGRF grant money). Only these projects may include the GHG benefit of avoided emissions from an open pile burn, landfilling, or leaving biomass to decay on-site.	
	Biomass that would be removed and open pile burned without project (BDT)	Enter the amount of removed biomass that would be open pile burned in the baseline scenario (separate estimates for each method of disposal). For the purposes of this quantification methodology, "biomass" refers to both merchantable timber and woody waste material. If cell is not applicable, leave blank.
	Biomass that would be removed and landfilled without project (BDT)	Enter the amount of removed biomass that would be landfilled in the baseline scenario (separate estimates for each method of disposal). For the purposes of this quantification methodology, "biomass" refers to both merchantable timber and woody waste material. If cell is not applicable, leave blank.
Biomass that would be removed and left to decay on-site without project (BDT)	Enter the amount of removed biomass that would be left to decay on-site in the baseline scenario (separate estimates for each method of disposal). For the purposes of this quantification methodology, "biomass" refers to both merchantable timber and woody waste material. If cell is not applicable, leave blank.	
GHG Summary	Forest Health GGRF Funds Requested (\$)	Enter the Forest Health GGRF funds requested for all project features. This amount is equal to the amount of GGRF dollars the applicant is requesting from CAL FIRE's Forest Health program.
	Total GGRF Funds Requested (\$)	Enter the total GGRF funds requested for all project features. This amount is equal to the amount of GGRF dollars the applicant is requesting from CAL FIRE's Forest Health program, plus all GGRF dollars from CAL FIRE or other agencies that have previously been awarded to the same project and any GGRF dollars from agencies other than CAL FIRE that project has or plans to apply for. For a list of GGRF funded programs, go to: https://www.arb.ca.gov/cc/capandtrade/auctionproceeds/ggrfprogrampage.htm . If no other GGRF funds are requested, this will be the same amount as the Forest Health GGRF Funds Requested.



California Air Resources Board
Calculator for the
California Department of Forestry & Fire Protection
Forest Health Grant Program
Quantification Methodology
Fiscal Year 2017-2018

Project Name:	El Dorado Irrigation District Veg Management Project
Grant ID, if applicable:	SGG17112

Fuels Reduction Worksheet

Enter data below using the appropriate on-site carbon stock accounting tools identified in Table 2 of the quantification methodology. If the fuels reduction treatment or impact boundary overlaps with another activity's treatment or impact boundary, apportion the acreage as instructed in Table 3 of the quantification methodology.

Fuels Reduction Activity 1	
Area within the treatment boundary (acres)	118
Annual probability of fire occurrence (%)	0.40%
Effective period for fuels reduction treatment (Years)	25
Carbon within the treatment boundary at the end of the project with fuels reduction treatment but without fire disturbance (MT C)	10,082
Carbon within the treatment boundary at the end of the project with fuels reduction treatment and with fire disturbance (MT C)	0
Carbon within the treatment boundary at the end of the project without fuels reduction treatment and without fire disturbance (MT C)	8,213
Carbon within the treatment boundary at the end of the project without fuels reduction treatment but with fire disturbance (MT C)	0
Biomass removed via mechanical treatments (BDT)	0
For applicants who choose to include the impact boundary for fuels reduction activities:	
Area within the impact boundary (acres)	
Carbon within the impact boundary at the end of the project without fire disturbance (optional) (MT C)	
Carbon within the impact boundary at the end of the project without fuels reduction treatment but with fire disturbance (optional) (MT C)	
Proportion of impact boundary likely to burn at high severity without fuels reduction treatment (optional) (%)	
Proportion of impact boundary likely to burn at high severity with fuels reduction treatment (optional) (%)	

GHG benefit from fuels reduction activity 1 (MT CO ₂ e)	6,208
On-site carbon storage and project emissions in fuels reduction project scenario (MT CO ₂ e)	33,473
On-site carbon storage in baseline scenario (MT CO ₂ e)	27,268

Fuels Reduction Activity 2	
Area within the treatment boundary (acres)	370
Annual probability of fire occurrence (%)	0.40%
Effective period for fuels reduction treatment (Years)	25
Carbon within the treatment boundary at the end of the project with fuels reduction treatment but without fire disturbance (MT C)	1,280
Carbon within the treatment boundary at the end of the project with fuels reduction treatment and with fire disturbance (MT C)	0
Carbon within the treatment boundary at the end of the project without fuels reduction treatment and without fire disturbance (MT C)	609
Carbon within the treatment boundary at the end of the project without fuels reduction treatment but with fire disturbance (MT C)	0
Biomass removed via mechanical treatments (BDT)	0
For applicants who choose to include the impact boundary for fuels reduction activities:	
Area within the impact boundary (acres)	
Carbon within the impact boundary at the end of the project without fire disturbance (optional) (MT C)	
Carbon within the impact boundary at the end of the project without fuels reduction treatment but with fire disturbance (optional) (MT C)	
Proportion of impact boundary likely to burn at high severity without fuels reduction treatment (optional) (%)	
Proportion of impact boundary likely to burn at high severity with fuels reduction treatment (optional) (%)	

GHG benefit from fuels reduction activity 2 (MT CO ₂ e)	2,262
On-site carbon storage and project emissions in fuels reduction project scenario (MT CO ₂ e)	4,283
On-site carbon storage in baseline scenario (MT CO ₂ e)	2,021

Fuels Reduction Activity 3	
Area within the treatment boundary (acres)	75
Annual probability of fire occurrence (%)	0.40%
Effective period for fuels reduction treatment (Years)	25
Carbon within the treatment boundary at the end of the project with fuels reduction treatment but without fire disturbance (MT C)	1,114
Carbon within the treatment boundary at the end of the project with fuels reduction treatment and with fire disturbance (MT C)	0
Carbon within the treatment boundary at the end of the project without fuels reduction treatment and without fire disturbance (MT C)	24
Carbon within the treatment boundary at the end of the project without fuels reduction treatment but with fire disturbance (MT C)	0
Biomass removed via mechanical treatments (BDT)	0
For applicants who choose to include the impact boundary for fuels reduction activities:	
Area within the impact boundary (acres)	
Carbon within the impact boundary at the end of the project without fire disturbance (optional) (MT C)	
Carbon within the impact boundary at the end of the project without fuels reduction treatment but with fire disturbance (optional) (MT C)	
Proportion of impact boundary likely to burn at high severity without fuels reduction treatment (optional) (%)	
Proportion of impact boundary likely to burn at high severity with fuels reduction treatment (optional) (%)	

GHG benefit from fuels reduction activity 3 (MT CO ₂ e)	3,620
On-site carbon storage and project emissions in fuels reduction project scenario (MT CO ₂ e)	3,699
On-site carbon storage in baseline scenario (MT CO ₂ e)	79

Fuels Reduction Activity 4	
Area within the treatment boundary (acres)	
Annual probability of fire occurrence (%)	
Effective period for fuels reduction treatment (Years)	
Carbon within the treatment boundary at the end of the project with fuels reduction treatment but without fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project with fuels reduction treatment and with fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project without fuels reduction treatment and without fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project without fuels reduction treatment but with fire disturbance (MT C)	
Biomass removed via mechanical treatments (BDT)	
For applicants who choose to include the impact boundary for fuels reduction activities:	
Area within the impact boundary (acres)	
Carbon within the impact boundary at the end of the project without fire disturbance (optional) (MT C)	
Carbon within the impact boundary at the end of the project without fuels reduction treatment but with fire disturbance (optional) (MT C)	
Proportion of impact boundary likely to burn at high severity without fuels reduction treatment (optional) (%)	
Proportion of impact boundary likely to burn at high severity with fuels reduction treatment (optional) (%)	

GHG benefit from fuels reduction activity 4 (MT CO ₂ e)	0
On-site carbon storage and project emissions in fuels reduction project scenario (MT CO ₂ e)	0
On-site carbon storage in baseline scenario (MT CO ₂ e)	0

Fuels Reduction Activity 5	
Area within the treatment boundary (acres)	
Annual probability of fire occurrence (%)	
Effective period for fuels reduction treatment (Years)	
Carbon within the treatment boundary at the end of the project with fuels reduction treatment but without fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project with fuels reduction treatment and with fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project without fuels reduction treatment and without fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project without fuels reduction treatment but with fire disturbance (MT C)	
Biomass removed via mechanical treatments (BDT)	
For applicants who choose to include the impact boundary for fuels reduction activities:	
Area within the impact boundary (acres)	
Carbon within the impact boundary at the end of the project without fire disturbance (optional) (MT C)	
Carbon within the impact boundary at the end of the project without fuels reduction treatment but with fire disturbance (optional) (MT C)	
Proportion of impact boundary likely to burn at high severity without fuels reduction treatment (optional) (%)	
Proportion of impact boundary likely to burn at high severity with fuels reduction treatment (optional) (%)	

GHG benefit from fuels reduction activity 5 (MT CO ₂ e)	0
On-site carbon storage and project emissions in fuels reduction project scenario (MT CO ₂ e)	0
On-site carbon storage in baseline scenario (MT CO ₂ e)	0



California Air Resources Board
Calculator for the
California Department of Forestry & Fire Protection
Forest Health Grant Program
Quantification Methodology
Fiscal Year 2017-2018

Project Name:	El Dorado Irrigation District Veg Management Project
Grant ID, if applicable:	SGG17112

Fuels Reduction Worksheet

Enter data below using the appropriate on-site carbon stock accounting tools identified in Table 2 of the quantification methodology. If the fuels reduction treatment or impact boundary overlaps with another activity's treatment or impact boundary, apportion the acreage as instructed in Table 3 of the quantification methodology.

Fuels Reduction Activity 6	
Area within the treatment boundary (acres)	
Annual probability of fire occurrence (%)	
Effective period for fuels reduction treatment (Years)	
Carbon within the treatment boundary at the end of the project with fuels reduction treatment but without fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project with fuels reduction treatment and with fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project without fuels reduction treatment and without fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project without fuels reduction treatment but with fire disturbance (MT C)	
Biomass removed via mechanical treatments (BDT)	
For applicants who choose to include the impact boundary for fuels reduction activities:	
Area within the impact boundary (acres)	
Carbon within the impact boundary at the end of the project without fire disturbance (optional) (MT C)	
Carbon within the impact boundary at the end of the project without fuels reduction treatment but with fire disturbance (optional) (MT C)	
Proportion of impact boundary likely to burn at high severity without fuels reduction treatment (optional) (%)	
Proportion of impact boundary likely to burn at high severity with fuels reduction treatment (optional) (%)	

GHG benefit from fuels reduction activity 6 (MT CO ₂ e)	0
On-site carbon storage and project emissions in fuels reduction project scenario (MT CO ₂ e)	0
On-site carbon storage in baseline scenario (MT CO ₂ e)	0

Fuels Reduction Activity 7	
Area within the treatment boundary (acres)	
Annual probability of fire occurrence (%)	
Effective period for fuels reduction treatment (Years)	
Carbon within the treatment boundary at the end of the project with fuels reduction treatment but without fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project with fuels reduction treatment and with fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project without fuels reduction treatment and without fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project without fuels reduction treatment but with fire disturbance (MT C)	
Biomass removed via mechanical treatments (BDT)	
For applicants who choose to include the impact boundary for fuels reduction activities:	
Area within the impact boundary (acres)	
Carbon within the impact boundary at the end of the project without fire disturbance (optional) (MT C)	
Carbon within the impact boundary at the end of the project without fuels reduction treatment but with fire disturbance (optional) (MT C)	
Proportion of impact boundary likely to burn at high severity without fuels reduction treatment (optional) (%)	
Proportion of impact boundary likely to burn at high severity with fuels reduction treatment (optional) (%)	

GHG benefit from fuels reduction activity 7 (MT CO ₂ e)	0
On-site carbon storage and project emissions in fuels reduction project scenario (MT CO ₂ e)	0
On-site carbon storage in baseline scenario (MT CO ₂ e)	0

Fuels Reduction Activity 8	
Area within the treatment boundary (acres)	
Annual probability of fire occurrence (%)	
Effective period for fuels reduction treatment (Years)	
Carbon within the treatment boundary at the end of the project with fuels reduction treatment but without fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project with fuels reduction treatment and with fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project without fuels reduction treatment and without fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project without fuels reduction treatment but with fire disturbance (MT C)	
Biomass removed via mechanical treatments (BDT)	
For applicants who choose to include the impact boundary for fuels reduction activities:	
Area within the impact boundary (acres)	
Carbon within the impact boundary at the end of the project without fire disturbance (optional) (MT C)	
Carbon within the impact boundary at the end of the project without fuels reduction treatment but with fire disturbance (optional) (MT C)	
Proportion of impact boundary likely to burn at high severity without fuels reduction treatment (optional) (%)	
Proportion of impact boundary likely to burn at high severity with fuels reduction treatment (optional) (%)	

GHG benefit from fuels reduction activity 8 (MT CO ₂ e)	0
On-site carbon storage and project emissions in fuels reduction project scenario (MT CO ₂ e)	0
On-site carbon storage in baseline scenario (MT CO ₂ e)	0

Fuels Reduction Activity 9	
Area within the treatment boundary (acres)	
Annual probability of fire occurrence (%)	
Effective period for fuels reduction treatment (Years)	
Carbon within the treatment boundary at the end of the project with fuels reduction treatment but without fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project with fuels reduction treatment and with fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project without fuels reduction treatment and without fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project without fuels reduction treatment but with fire disturbance (MT C)	
Biomass removed via mechanical treatments (BDT)	
For applicants who choose to include the impact boundary for fuels reduction activities:	
Area within the impact boundary (acres)	
Carbon within the impact boundary at the end of the project without fire disturbance (optional) (MT C)	
Carbon within the impact boundary at the end of the project without fuels reduction treatment but with fire disturbance (optional) (MT C)	
Proportion of impact boundary likely to burn at high severity without fuels reduction treatment (optional) (%)	
Proportion of impact boundary likely to burn at high severity with fuels reduction treatment (optional) (%)	

GHG benefit from fuels reduction activity 9 (MT CO ₂ e)	0
On-site carbon storage and project emissions in fuels reduction project scenario (MT CO ₂ e)	0
On-site carbon storage in baseline scenario (MT CO ₂ e)	0

Fuels Reduction Activity 10	
Area within the treatment boundary (acres)	
Annual probability of fire occurrence (%)	
Effective period for fuels reduction treatment (Years)	
Carbon within the treatment boundary at the end of the project with fuels reduction treatment but without fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project with fuels reduction treatment and with fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project without fuels reduction treatment and without fire disturbance (MT C)	
Carbon within the treatment boundary at the end of the project without fuels reduction treatment but with fire disturbance (MT C)	
Biomass removed via mechanical treatments (BDT)	
For applicants who choose to include the impact boundary for fuels reduction activities:	
Area within the impact boundary (acres)	
Carbon within the impact boundary at the end of the project without fire disturbance (optional) (MT C)	
Carbon within the impact boundary at the end of the project without fuels reduction treatment but with fire disturbance (optional) (MT C)	
Proportion of impact boundary likely to burn at high severity without fuels reduction treatment (optional) (%)	
Proportion of impact boundary likely to burn at high severity with fuels reduction treatment (optional) (%)	

GHG benefit from fuels reduction activity 10 (MT CO ₂ e)	0
On-site carbon storage and project emissions in fuels reduction project scenario (MT CO ₂ e)	0
On-site carbon storage in baseline scenario (MT CO ₂ e)	0



California Air Resources Board
Calculator for the
California Department of Forestry & Fire Protection
Forest Health Grant Program
Quantification Methodology
Fiscal Year 2017-2018

Project Name:	EI Dorado Irrigation District Veg Management Project
Grant ID, if applicable:	5GG17112

GHG Summary Worksheet

GHG benefit from reforestation activities (MT CO ₂ e)	0
GHG benefit from pest management activities (MT CO ₂ e)	0
GHG benefit from fuels reduction activities (MT CO ₂ e)	12,088
GHG benefit from avoided conversion easement activities (MT CO ₂ e)	0
GHG benefit from forest management easement activities (MT CO ₂ e)	0
GHG benefit from biomass utilization activities (MT CO ₂ e)	0

Net GHG Benefit (MT CO ₂ e)	12,088
Forest Health GGRF \$ Requested (\$)	\$1,963,005
Total GGRF \$ Requested (\$)	\$1,963,005
Net GHG Benefit/Forest Health GGRF Funds Requested (MT CO ₂ e/\$)	0.01
Net GHG Benefit/GGRF \$ Requested	0.01



California Air Resources Board
Calculator for the
California Department of Forestry & Fire Protection
Forest Health Grant Program
Quantification Methodology
Fiscal Year 2017-2018

Project Name:	El Dorado Irrigation District Veg Management Project
Grant ID, if applicable:	5GG17112

Co-benefit Summary Worksheet

Key Variables Summary

Acres planted in reforestation activities (acres)	0
Acres treated in pest management activities (acres)	0
Acres impacted in pest management activities (acres)	0
Acres treated in fuels reduction activities (acres)	563
Acres impacted by fuels reduction activities (acres; if calculated)	0
Acres conserved via avoided conversion easement activities (acres)	0
Acres conserved via forest management easement activities (acres)	0
Total acreage treated (acres)	563
Total easement acreage conserved (acres)	0
Trees planted in reforestation activities (number of trees)	0
Renewable energy generated via biomass utilization activities (kWh)	0

FOREST VEGETATION SIMULATOR VERSION 2614 -- INLAND CALIFORNIA /
SOUTHERN CASCADES RV: 20190307 06-06-2019 16: 57: 08

OPTIONS SELECTED BY INPUT

KEYWORD FILE NAME: EIDVegMP3.key

KEYWORD PARAMETERS:

COMMENT

Starting year for simulation is 2014
Ending year for simulation is 2039
Min and Max inventory years are 2014 2014
Common cycle length is 5

END

STIDENT

STAND ID= 050853grnd3016

Stand 050853grnd3016 at EID

VegMP

SCREEN PROGRESSES.

SUMMARY TABLE WILL BE PRINTED TO DATA SET REFERENCE NUMBER 6 AS RUN

STANDCN

DATA BASE CONTROL NUMBER=186010466

INVYEAR

INVENTORY YEAR= 2014

TIMEINT

ALL CYCLES; PERIOD LENGTH= 5

NUMCYCLE

NUMBER OF CYCLES= 5

DATABASE

DATABASE KEYWORDS:

DSNIN

DSN FOR INPUT CONNECTION IS FVS_Data.accdb
ODBC CONNECT STRING: DRIVER={Microsoft Access Driver (*.mdb,
*.accdb)}; DBQ=C:\FVSData\EID VegMP\FVS_Data.accdb; UID=; PWD=
CONNECTION DATA BASE TYPE: ACCESS

STANDSQL

STANDSQL COMMAND FOR INPUT CONNECTION: FVS_Data.accdb
SELECT *
FROM FVS_StandInit
WHERE Stand_CN= '%Stand_CN%'

STAND-LEVEL DATA BASE READ:

INV_YEAR: 2014
LONGITUDE: 13.0164
REGION: 5
FOREST: 8
DISTRICT: 53
COMPOSITE LOC: 508
LATITUDE: 11.9047
ASPECT: 180.0
SLOPE: 0.00

```

Camp5Flume46.out.txt
ELEVFT: 4050.0 CONVERTED TO: 40.5
BASAL_AREA_FACTOR: 73.0
INV_PLOT_SIZE: 75.
BRK_DBH: 21.0
NUM_PLOTS: 1
STK_PCNT: 1.000
DG_TRANS: 0
DG_MEASURE: 10
HTG_TRANS: 0
HTG_MEASURE: 5
MORT_MEASURE: 5
SITE_SPECIES: PSME MAPPED TO INTERNAL CODE: DF
SITE_INDEX: 80.0 FOR SPECIES: DF
FUEL_1_3_H: 1.936
FUEL_3_6_H: 1.223
FUEL_6_12_H: 3.644
FUEL_12_20_H: 35.136
FUEL_LITTER: 0.000
FUEL_DUFF: 3.333
FUEL_0_25_H: 0.386
FUEL_25_1_H: 0.580
FUEL_20_35_H: 7.757
END OF DATA BASE READ.

```

```

TREETSQL TREETSQL COMMAND FOR INPUT CONNECTION: FVS_Data.accdb
SELECT *
FROM FVS_TreeInit
WHERE Stand_CN= '%Stand_CN%'

```

```

COLUMN PROCESSING RESULTS:
STAND_CN WAS IGNORED
STAND_ID WAS IGNORED
STANDPLOT_CN WAS IGNORED
STANDPLOT_ID WAS IGNORED
PLOT_ID WAS BOUND
TREE_ID WAS BOUND
TREE_COUNT WAS BOUND
HI STORY WAS BOUND
SPECIES WAS BOUND
DBH WAS BOUND
DG WAS BOUND
HT WAS BOUND
HTG WAS BOUND
HTTOPK WAS BOUND
CRRATIO WAS BOUND
DAMAGE1 WAS BOUND
SEVERITY1 WAS BOUND
DAMAGE2 WAS BOUND
SEVERITY2 WAS BOUND
DAMAGE3 WAS BOUND
SEVERITY3 WAS BOUND
TREEVALUE WAS BOUND
PRESCRIPTION WAS BOUND
AGE WAS BOUND
SLOPE WAS BOUND
ASPECT WAS BOUND
PV_CODE WAS BOUND
TOPOCODE WAS BOUND
SITEPREP WAS BOUND
NUMBER ROWS PROCESSED: 35

```

```

END END OF DATA BASE OPTIONS.

```


THINHT DATE/CYCLE= 2014; MINIMUM HEIGHT= 0.0; MAXIMUM HEIGHT= 60.0;
PROPORTION OF SELECTED TREES REMOVED= 1.000
ALL SPECIES (CODE= 0) ARE TARGETED FOR THIS CUT.

FMIN FIRE MODEL KEYWORDS:

CARBREPT THE MAIN CARBON REPORT WILL BE PRINTED.

CARBCUT THE HARVESTED PRODUCTS REPORT WILL BE PRINTED.

CARBCALC CARBON REPORTS WILL BE BASED ON METHOD 0 (0=FFE, 1=JENKINS)
REPORT UNITS WILL BE 1 (0=US(TONS/ACRE), 1=METRIC(METRIC TONS/HA)
2=COMBINED(METRIC TONS/ACRE))

PROPORTION OF DEAD ROOTS DECAYING ANNUALLY WILL BE: 0.0425 (<0 = NO DEAD
ROOTS)

SOFTWOOD DIAMETER BREAKPOINT: 9.0
HARDWOOD DIAMETER BREAKPOINT: 11.0

END END OF FIRE MODEL OPTIONS.

SPLABEL STAND POLICY LABEL SET:
All, All_Stands, forest_type=371, Variant=CA_R5

PROCESS PROCESS THE STAND.

***** FVS09 WARNING: PLOT COUNTS DO NOT MATCH DATA ON THE DESIGN RECORD;
DESIGN RECORD DATA USED.

PLOT COUNT= 3; NONSTOCKABLE COUNT= 0

OPTIONS SELECTED BY DEFAULT

TREEFMT
(I4, T1, I7, F6.0, I1, A3, F4.1, F3.1, 2F3.0, F4.1, I1, 3(I2, I2), 2I1, I2, 2I3, 2I1, F3.0)

DESIGN BASAL AREA FACTOR= 73.0; INVERSE OF FIXED PLOT AREA= 75.0; BREAK DBH=
21.0
WEIGHT= NUMBER OF PLOTS= 1; NON-STOCKABLE PLOTS= 0; STAND SAMPLING
1.0000
PROPORTION OF STAND CONSIDERED STOCKABLE= 1.000

***** FVS14 WARNING: HABITAT/PLANT ASSOCIATION/ECOREGION CODE WAS NOT
RECOGNIZED; HABITAT/PLANT ASSOCIATION/ECOREGION SET TO DEFAULT CODE.

PLANT COMMUNITY CODE USED IN THIS PROJECTION IS UNKNOWN

STDI NFO FOREST-LOCATION CODE= 508; HABITAT TYPE= 0; AGE= 0; ASPECT
AZI MUTH I N DEGREES= 180.; SLOPE= 0.%
ELEVATION(100' S FEET)= 40.5; REFERENCE CODE=

SPECIES PC IC RC WF RF SH DF WH MH
WB

Camp5FI ume46. out. txt

SDI MAX 621.	592.	576.	762.	800.	1000.	1000.	570.	682.	687.
SPECI ES GP	KP	LP	CP	LM	JP	SP	WP	PP	MP
SDI MAX 214.	679.	679.	365.	409.	365.	561.	272.	365.	365.
SPECI ES WO	WJ	BR	GS	PY	OS	LO	CY	BL	EO
SDI MAX 440.	272.	412.	576.	576.	365.	667.	667.	214.	214.
SPECI ES FL	B0	VO	IO	BM	BU	RA	MA	GC	DG
SDI MAX 441.	406.	440.	667.	629.	440.	441.	515.	785.	406.
SPECI ES SDI MAX	WN	TO	SY	AS	CW	WI	CN	CL	OH
	283.	785.	499.	562.	452.	447.	576.	406.	452.

ALPHA SPECIES - FIA CODE CROSS REFERENCE:

DF= 202 ;	PC= 041 ;	IC= 081 ;	RC= 242 ;	WF= 015 ;	RF= 020 ;	SH= 021 ;
	WH= 263 ;	MH= 264				
SP= 117 ;	WB= 101 ;	KP= 103 ;	LP= 108 ;	CP= 109 ;	LM= 113 ;	JP= 116 ;
	WP= 119 ;	PP= 122				
OS= 298 ;	MP= 124 ;	GP= 127 ;	WJ= 064 ;	BR= 092 ;	GS= 212 ;	PY= 231 ;
	LO= 801 ;	CY= 805				
BM= 312 ;	BL= 807 ;	EO= 811 ;	WO= 815 ;	B0= 818 ;	VO= 821 ;	IO= 839 ;
	BU= 333 ;	RA= 351				
SY= 730 ;	MA= 361 ;	GC= 431 ;	DG= 492 ;	FL= 542 ;	WN= 600 ;	TO= 631 ;
	AS= 746 ;	CW= 747				
	WI = 920 ;	CN= 251 ;	CL= 981 ;	OH= 998		

NATIONAL VOLUME ESTIMATOR LIBRARY EQUATION NUMBERS

SPECIES CUBIC FOOT	BOARD FOOT	SPECIES CUBIC FOOT	BOARD FOOT	SPECIES CUBIC FOOT	BOARD FOOT
FOOT SPECIES CUBIC	FOOT BOARD	FOOT		FOOT	BOARD
PC 500W02W081	500W02W081	IC 532W02W081	532W02W081	RC 500W02W081	
500W02W081	WF 532W02W015	532W02W015			
RF 532W02W020	532W02W020	SH 500W02W020	500W02W020	DF 532W02W202	
532W02W202	WH 500W02W015	500W02W015			
MH 500W02W015	500W02W015	WB 500W02W108	500W02W108	KP 500W02W108	
500W02W108	LP 532W02W108	532W02W108			
CP 500W02W108	500W02W108	LM 500W02W108	500W02W108	JP 500W02W116	
500W02W116	SP 532W02W117	532W02W117			
WP 500W02W117	500W02W117	PP 532W02W122	532W02W122	MP 500W02W108	
500W02W108	GP 500W02W108	500W02W108			
WJ 500DVEW060	500DVEW060	BR 500W02W015	500W02W015	GS 500DVEW212	
500DVEW212	PY 500W02W108	500W02W108			
OS 500W02W108	500W02W108	LO 500DVEW801	500DVEW801	CY 500DVEW805	
500DVEW805	BL 500DVEW807	500DVEW807			
EO 500DVEW811	500DVEW811	WO 500DVEW815	500DVEW815	B0 500DVEW818	
500DVEW818	VO 500DVEW821	500DVEW821			
IO 500DVEW839	500DVEW839	BM 500DVEW312	500DVEW312	BU 500DVEW807	
500DVEW807	RA 500DVEW351	500DVEW351			
MA 500DVEW361	500DVEW361	GC 500DVEW431	500DVEW431	DG 500DVEW807	
500DVEW807	FL 500DVEW807	500DVEW807			
WN 500DVEW818	500DVEW818	TO 500DVEW631	500DVEW631	SY 500DVEW818	
500DVEW818	AS 500DVEW818	500DVEW818			
CW 500DVEW818	500DVEW818	WI 500DVEW807	500DVEW807	CN 500DVEW807	
500DVEW807	CL 500DVEW981	500DVEW981			

OH 500DVEW801 500DVEW801

SITE CODE SITE INDEX INFORMATION:

DF= 80.; PC= 72.; IC= 61.; RC= 72.; WF= 80.; RF= 80.; SH= 80.;
 WH= 72.; MH= 72.;
 SP= 80.; WB= 72.; KP= 72.; LP= 72.; CP= 72.; LM= 72.; JP= 80.;
 WP= 72.; PP= 80.;
 OS= 72.; MP= 72.; GP= 72.; WJ= 61.; BR= 61.; GS= 80.; PY= 61.;
 LO= 46.; CY= 46.;
 BM= 46.; BL= 46.; EO= 46.; WO= 46.; BO= 46.; VO= 46.; IO= 46.;
 BU= 46.; RA= 46.;
 SY= 46.; MA= 46.; GC= 46.; DG= 46.; FL= 46.; WN= 46.; TO= 46.;
 AS= 46.; CW= 46.;
 WI= 46.; CN= 46.; CL= 46.; OH= 46.
 SITE SPECIES=DF CODE= 7

INVENTORY POINT CROSS REFERENCE (FVS SEQUENTIAL POINT NUMBER = POINT NUMBER AS ENTERED IN THE INPUT DATA):

1= 130

ACTIVITY SCHEDULE

STAND ID= 050853grnd3016
 VegMP

MGMT ID= NONE Stand 050853grnd3016 at EID

CYCLE DATE EXTENSION KEYWORD DATE PARAMETERS:

CYCLE	DATE	EXTENSION	KEYWORD	DATE	PARAMETERS:
1	2014				
		FIRE	FUELINIT	2014	-1.0000 1.9360 1.2230 3.6440
	35.1360	0.0000	3.3330	0.3864	0.5796 7.7568 -1.0000 -1.0000
		BASE	THINHT	2014	0.0000 60.0000 1.0000 0.0000
	0.0000	0.0000			
2	2019				
3	2024				
4	2029				
5	2034				

CALIBRATION STATISTICS:

	WF	DF	BO	PP	IC
NUMBER OF RECORDS PER SPECIES	7	15	1	5	7
NUMBER OF RECORDS CODED AS RECENT MORTALITY	1	0	0	0	0
NUMBER OF RECORDS WITH MISSING HEIGHTS	6	11	1	2	6

NUMBER OF RECORDS WITH BROKEN OR DEAD TOPS	0	0	0	0	0
NUMBER OF RECORDS WITH MISSING CROWN RATIOS	0	0	0	0	0
NUMBER OF RECORDS AVAILBLE FOR SCALING THE DIAMETER INCREMENT MODEL	0	2	0	3	0
RATIO OF STANDARD ERRORS (INPUT DBH GROWTH DATA : MODEL)	1.00	1.00	1.00	1.00	1.00
WEIGHT GIVEN TO THE INPUT GROWTH DATA WHEN DBH GROWTH MODEL SCALE FACTORS WERE COMPUTED	0.00	0.00	0.00	0.00	0.00
INITIAL SCALE FACTORS FOR THE DBH INCREMENT MODEL	1.00	1.00	1.00	1.00	1.00
NUMBER OF RECORDS AVAILBLE FOR SCALING THE SMALL TREE HEIGHT INCREMENT MODEL	0	1	0	0	0
INITIAL SCALE FACTORS FOR THE SMALL TREE HEIGHT INCREMENT MODEL	1.00	1.00	1.00	1.00	1.00
NUMBER OF RECORDS WITH MISTLETOE	0	0	0	0	0

WARNING: INITIAL STAND STOCKING OF 159613.8 TREES/ACRE IS MORE THAN 5% ABOVE THE UPPER LIMIT OF 2125.1 TREES/ACRE.
UPPER LIMIT IS BASED ON A SDI MAXIMUM OF 560.3 AND AN UPPER BOUND OF 85.0 PERCENT OF MAXIMUM.
MAXIMUM SDI BEING RESET TO 42083.3 FOR FURTHER PROCESSING.

FOREST VEGETATION SIMULATOR VERSION 2614 -- INLAND CALIFORNIA / SOUTHERN CASCADES RV: 20190307 06-06-2019 16:57:09

STAND ID: 050853grnd3016 MGMT ID: NONE Stand 050853grnd3016 at EID VegMP

STAND COMPOSITION (BASED ON STOCKABLE AREA)

STAND DISTRIBUTION OF STAND ATTRIBUTES BY YEAR ATTRIBUTES SPECIES AND 3 USER-DEFINED	PERCENTILE POINTS IN THE DISTRIBUTION OF STAND ATTRIBUTES BY DBH						TOTAL/ACRE OF STAND ATTRIBUTES
	10	30	50	70	90	100	
2014 TREES	1.9	2.4	2.9	3.3	5.7	50.2	159614. TREES
18. % DF3, 15. % PP1,	14. % IC3,	14. % WF1					
VOLUME: TOTAL	3.3	7.0	14.0	21.6	42.5	50.2	303921. CUFT

(DBH IN INCHES)

Camp5Flume46.out.txt

25. %	PP2, 16. %	DF3, 13. %	WF3, 11. %	PP1						
	MERCH				14.0	20.9	20.9	30.0	43.3	50.2 177232. CUFT
39. %	PP2, 20. %	WF3, 11. %	DF2, 11. %	DF3						
	MERCH				14.0	20.9	21.6	34.7	44.4	50.2 815475. BDFT
35. %	PP2, 15. %	WF3, 15. %	DF2, 13. %	DF1						
	REMOVAL				1.7	2.2	3.0	3.7	5.7	7.0 99999. TREES
23. %	IC3, 17. %	PP1, 16. %	DF3, 15. %	IC2						
	VOLUME:									
	TOTAL				3.0	5.7	5.7	6.3	6.3	7.0 80948. CUFT
42. %	PP1, 25. %	WF2, 15. %	DF3, 5. %	IC3						
	MERCH				7.0	7.0	7.0	7.0	7.0	7.0 1482. CUFT
100. %	DF3, 0. %	---, 0. %	---, 0. %	---						
	MERCH				7.0	7.0	7.0	7.0	7.0	7.0 11396. BDFT
100. %	DF3, 0. %	---, 0. %	---, 0. %	---						
	RESI DUAL				1.9	2.4	2.5	2.8	7.0	50.2 59615. TREES
25. %	WF1, 20. %	DF3, 15. %	WF3, 13. %	DF2						
	ACCRETI ON				2.5	7.0	7.0	14.0	22.2	50.2 1396. CUFT/YR
30. %	DF3, 17. %	WF3, 14. %	PP2, 12. %	DF1						
	MORTALI TY				2.7	7.0	14.0	20.9	21.6	50.2 1165. CUFT/YR
32. %	PP2, 27. %	DF3, 25. %	WF3, 6. %	WF1						
	2019 TREES				2.2	2.6	2.8	2.9	7.0	50.4 54365. TREES
26. %	WF1, 21. %	DF3, 15. %	WF3, 13. %	DF1						
	VOLUME:									
	TOTAL				7.0	14.0	20.9	22.2	43.5	50.4 224130. CUFT
33. %	PP2, 18. %	WF3, 17. %	DF3, 10. %	DF2						
	MERCH				14.0	20.9	20.9	30.1	43.6	50.4 177139. CUFT
38. %	PP2, 20. %	WF3, 12. %	DF2, 11. %	DF3						
	MERCH				14.0	20.9	21.6	34.7	44.5	50.4 797299. BDFT
35. %	PP2, 15. %	WF3, 15. %	DF2, 13. %	DF1						
	ACCRETI ON				2.5	2.9	14.0	20.9	30.1	50.4 1197. CUFT/YR
36. %	DF3, 30. %	WF3, 14. %	PP2, 9. %	PP1						
	MORTALI TY				2.8	7.0	14.0	20.9	21.6	50.4 1478. CUFT/YR
34. %	PP2, 26. %	DF3, 24. %	WF3, 5. %	WF1						
	2024 TREES				2.4	2.7	2.8	2.9	7.0	50.6 49115. TREES
26. %	WF1, 21. %	DF3, 15. %	WF3, 13. %	DF1						
	VOLUME:									
	TOTAL				7.0	14.0	20.9	22.2	43.7	50.6 222726. CUFT
33. %	PP2, 18. %	WF3, 17. %	DF3, 10. %	DF2						
	MERCH				14.0	20.9	20.9	30.3	43.8	50.6 175444. CUFT
38. %	PP2, 19. %	WF3, 12. %	DF2, 12. %	DF3						
	MERCH				14.0	20.9	21.6	34.8	44.6	50.6 796313. BDFT
35. %	PP2, 15. %	DF2, 15. %	WF3, 13. %	DF1						
	ACCRETI ON				2.8	3.1	7.0	14.0	22.2	50.6 1396. CUFT/YR
32. %	DF3, 17. %	WF1, 16. %	WF3, 12. %	PP2						
	MORTALI TY				2.8	7.0	14.0	20.9	21.6	50.6 1769. CUFT/YR
35. %	PP2, 25. %	DF3, 25. %	WF3, 5. %	WF1						

Camp5FI ume46. out. txt

2029 TREES	2.5	2.8	2.9	2.9	7.0	50.8	43865.	TREES
26. % WF1, 21. % DF3,	15. % WF3,	13. % DF1						
VOLUME:								
TOTAL	7.0	14.0	20.9	22.3	43.8	50.8	220859.	CUFT
32. % PP2, 18. % WF3,	17. % DF3,	11. % DF2						
MERCH	14.0	20.9	21.6	30.5	44.2	50.8	171291.	CUFT
38. % PP2, 19. % WF3,	12. % DF2,	12. % DF3						
MERCH	14.0	20.9	21.6	34.8	44.7	50.8	842191.	BDFT
36. % PP2, 16. % WF3,	15. % DF2,	13. % DF1						
ACCRETION	2.8	3.1	14.0	20.9	30.5	50.8	1021.	CUFT/YR
28. % WF3, 27. % DF3,	15. % PP2,	12. % DF2						
MORTALITY	2.9	7.0	14.0	20.9	21.6	50.8	2035.	CUFT/YR
35. % PP2, 25. % DF3,	24. % WF3,	5. % WF1						

2034 TREES	2.7	2.8	2.9	2.9	7.0	50.9	38615.	TREES
27. % WF1, 21. % DF3,	16. % WF3,	12. % DF1						
VOLUME:								
TOTAL	7.0	14.0	20.9	22.3	43.9	50.9	215789.	CUFT
32. % PP2, 18. % WF3,	17. % DF3,	11. % DF2						
MERCH	14.0	20.9	21.6	30.6	44.7	50.9	168274.	CUFT
37. % PP2, 18. % WF3,	12. % DF2,	12. % DF3						
MERCH	14.0	20.9	21.6	34.8	44.8	50.9	815587.	BDFT
35. % PP2, 16. % WF3,	15. % DF2,	13. % DF1						
ACCRETION	2.9	7.0	14.0	20.9	30.6	50.9	938.	CUFT/YR
34. % DF3, 21. % WF3,	14. % PP2,	12. % DF1						
MORTALITY	2.9	7.0	14.0	20.9	21.6	50.9	2344.	CUFT/YR
35. % PP2, 24. % WF3,	24. % DF3,	5. % WF1						

2039 TREES	2.7	2.9	2.9	3.0	7.0	51.2	33365.	TREES
27. % WF1, 22. % DF3,	16. % WF3,	12. % DF1						
VOLUME:								
TOTAL	7.0	14.0	20.9	22.3	44.2	51.2	208763.	CUFT
31. % PP2, 17. % WF3,	17. % DF3,	11. % DF2						
MERCH	14.0	20.9	21.6	31.0	44.9	51.2	162892.	CUFT
36. % PP2, 18. % WF3,	13. % DF2,	12. % DF3						
MERCH	14.0	20.9	21.6	34.9	45.0	51.2	814551.	BDFT
35. % PP2, 16. % WF3,	15. % DF2,	13. % DF1						

FOREST VEGETATION SIMULATOR VERSION 2614 -- INLAND CALIFORNIA /
SOUTHERN CASCADES RV: 20190307 06-06-2019 16: 57: 10

STAND ID: 050853grnd3016 MGMT ID: NONE Stand 050853grnd3016 at EID VegMP

ATTRIBUTES OF SELECTED SAMPLE TREES ADDITIONAL
STAND ATTRIBUTES (BASED ON STOCKABLE AREA)

INITIAL LIVE PAST DBH BASAL TREES

QUADRATIC TREES	TREES	BASAL	TOP	HEIGHT	CROWN	GROWTH	AREA	PER	STAND
MEAN DBH	PER	AREA	DBH	HEIGHT	CROWN	(INCHES)	%TILE	ACRE	AGE
YEAR	%TILE	SPECIES	(INCHES)	(FEET)	COMP				
(INCHES)	ACRE	(SQFT/A)	40/A	(FT)	RATIO				
					FACTOR				

2014 (10 YRS)

10	DF2	1.90	13.23	80	0.00	1.9	7500.00		
30	PP1	2.40	9.07	40	0.00	6.9	7500.00		
50	WF1	2.90	14.52	40	0.00	14.3	7500.00		
70	DF3	3.30	31.00	70	1.40	23.9	7500.00		
90	PP1	5.70	37.00	50	1.00	48.3	8464.99		
100	DF1	50.20	161.79	40	0.84	100.0	7.73		

4.3 ***** 155.4 *****

5.1 59615. 8556. 155.4 7121.4

RESI DUAL:

2019 ** (5 YRS)

10	DF2	2.20	15.50	76	0.27	2.1	6694.11		
30	PP1	2.44	9.42	38	0.03	3.6	6524.30		
50	WF1	2.68	15.20	67	0.14	9.9	6887.09		
70	DF3	2.86	18.52	76	0.05	17.3	6851.87		
90	DF3	7.00	49.94	53	0.00	32.3	4196.68		
100	DF1	50.33	161.84	40	0.11	99.7	7.72		

5.3 54365. 8375. 155.8 6821.7

2024 (5 YRS)

10	DF2	2.43	17.91	72	0.21	2.3	5914.46		
30	PP1	2.49	9.94	36	0.04	3.8	5557.82		
50	WF1	2.76	17.49	64	0.07	8.8	6273.73		
70	DF3	2.89	21.19	72	0.03	17.7	6207.61		
90	DF3	7.00	53.94	56	0.00	29.2	3893.14		
100	DF1	50.44	161.89	40	0.10	99.5	7.71		

5.5 49115. 8072. 156.2 6415.9

2029 (5 YRS)

10	DF2	2.57	20.34	68	0.13	4.2	5157.31		
30	PP1	2.53	10.34	34	0.03	0.8	4658.98		
50	WF1	2.82	19.91	61	0.05	8.7	5644.27		
70	DF3	2.92	23.94	68	0.02	16.9	5564.53		
90	DF3	7.00	57.81	58	0.00	28.2	3560.77		
100	DF1	50.59	161.94	40	0.13	99.4	7.69		

5.7 43865. 7692. 156.6 5946.5

2034 (5 YRS)

10	DF2	2.67	23.00	65	0.09	3.9	4433.38		
30	PP1	2.57	10.84	32	0.03	0.7	3781.94		
50	WF1	2.87	22.53	58	0.04	8.3	5007.59		
70	DF3	2.94	26.74	65	0.02	15.7	4910.19		
90	DF3	7.00	61.46	59	0.00	25.9	3213.78		
100	DF1	50.76	161.99	40	0.15	99.6	7.68		

20

5.9 38615. 7259. 157.0 5435.5 Camp5Fl ume46. out. txt

2039 (5 YRS)

10	DF2	2.76	25.79	62	0.07	3.9	3725.26
30	PP1	2.61	11.39	31	0.03	0.6	2981.37
50	WF1	2.91	25.23	55	0.03	7.8	4360.43
70	DF3	2.96	29.74	62	0.01	15.2	4240.57
90	DF3	7.00	64.35	60	0.00	23.5	2841.10
100	DF1	51.00	162.04	40	0.20	99.7	7.66

25

6.1 33365. 6774. 157.3 4890.9

** NOTE: DUE TO HARVEST, COMPRESSION, OR REGENERATION ESTABLISHMENT, NEW SAMPLE TREES WERE SELECTED.

FOREST VEGETATION SIMULATOR VERSION 2614 -- INLAND CALIFORNIA / SOUTHERN CASCADES RV: 20190307 06-06-2019 16:57:10

STAND POLICIES: All, All_Stands, forest_type=371, Variant=CA_R5

STAND ID: 050853grnd3016 MGMT ID: NONE Stand 050853grnd3016 at EID VegMP

SUMMARY STATISTICS (PER ACRE OR STAND BASED ON TOTAL

STAND AREA)

START OF SIMULATION PERIOD										REMOVALS											
AFTER TREATMENT					GROWTH THIS PERIOD																
										MAI											
NO OF		TOP		TOTAL		MERCH		MERCH		NO OF		TOTAL		MERCH		MERCH					
YEAR	AGE	TREES	BA	SDI	CCF	HT	QMD	CU	FT	CU	FT	BD	FT	TREES	CU	FT	CU	FT	BD	FT	BA
SDI	CCF	HT	QMD	YEARS	PER	YEAR	CU	FT	TYP	ZT											
2014	0159614****35771****	155	4.3303921177232815475	99999	80948	1482															
113968556158117121	155	5.1	5	1396	1165	0.0	371	21													
2019	5 543658375153886822	156	5.3224130177139797299	0	0	0															
08375153886822	156	5.3	5	1197	1478	0.0	371	11													
2024	10 491158072146906416	156	5.5222726175444796313	0	0	0															
08072146906416	156	5.5	5	1396	1769	0.0	371	11													
2029	15 438657692138275946	157	5.7220859171291842191	0	0	0															
07692138275946	157	5.7	5	1021	2035	0.0	371	11													
2034	20 386157259128535436	157	5.9215789168274815587	0	0	0															
07259128535436	157	5.9	5	938	2344	0.0	371	11													
2039	25 333656774117844891	157	6.1208763162892814551	0	0	0															
06774117844891	157	6.1	0	0	0	0.0	371	11													

ACTIVITY SUMMARY

STAND ID= 050853grnd3016 MGMT ID= NONE Stand 050853grnd3016 at EID VegMP

CYCLE	DATE	EXTENSION	KEYWORD	DATE	ACTIVITY DISPOSITION	PARAMETERS:
1	2014					
1.0000		BASE	THI NHT	2014	DONE IN 2014	0.0000 60.0000
		0.0000	0.0000		0.0000	
1.2230		FIRE	FUELI NIT	2014	DONE IN 2014	-1.0000 1.9360
		3.6440	35.1360		0.0000	
0.5796		7.7568	-1.0000		-1.0000	3.3330 0.3864
2	2019					
3	2024					
4	2029					
5	2034					

***** CARBON REPORT VERSION 1.0 *****
 STAND CARBON REPORT (BASED ON STOCKABLE

AREA)

ALL VARIABLES ARE REPORTED IN METRIC TONS/HECTARE

STAND ID: 050853grnd3016

MGMT ID: NONE

Total	Aboveground		Live		Bel owground		Forest		
	Total	Li ve	Carbon	Li ve	Dead	Stand	DDW	Fl oor	Shb/Hrb
Stand	Removed	Rel eased							
YEAR	Total	Merch							
Carbon	Carbon	from Fi re							
2014	4708.8	2537.0	1213.3	753.5	218.1	724.7	427.9	0.4	
8046.7	1114.1	0.0							
2019	4685.8	2562.0	1192.8	643.7	329.2	705.7	142.7	0.4	
7700.2	0.0	0.0							
2024	4604.2	2541.2	1159.9	562.1	408.3	756.9	144.5	0.4	
7636.2	0.0	0.0							
2029	4515.2	2485.9	1118.3	502.1	468.0	835.4	147.1	0.4	
7586.4	0.0	0.0							
2034	4368.8	2447.0	1070.4	458.1	517.2	933.0	149.1	0.4	
7497.1	0.0	0.0							

***** CARBON REPORT VERSION 1.0 *****
 HARVESTED PRODUCTS REPORT (BASED ON STOCKABLE

AREA)

ALL VARIABLES ARE REPORTED IN METRIC TONS/HECTARE

STAND ID: 050853grnd3016

MGMT ID: NONE

Camp5FI ume46. out. txt

YEAR	Prducts	Lndfi II	Energy	Emi ssns	Stored	Removed
2014	16.1	0.0	4.0	3.7	16.1	23.8
2019	12.4	1.7	5.0	4.7	14.1	23.8
2024	10.1	2.8	5.6	5.4	12.9	23.8
2029	8.7	3.4	6.0	5.8	12.1	23.8
2034	7.7	3.8	6.2	6.1	11.5	23.8

OPTIONS SELECTED BY INPUT

KEYWORD FILE NAME: EIDVegMP.key

KEYWORD PARAMETERS:

COMMENT

Starting year for simulation is 2019
Ending year for simulation is 2039
Min and Max inventory years are 2014 2014
Common cycle length is 5

END

STIDENT

STAND ID= 050853grnd3005

Stand 050853grnd3005 at EID

VegMP

SCREEN PROGRESSES.

SUMMARY TABLE WILL BE PRINTED TO DATA SET REFERENCE NUMBER 6 AS RUN

STANDCN

DATA BASE CONTROL NUMBER=119010466

INVYEAR

INVENTORY YEAR= 2014

TIMEINT

ALL CYCLES; PERIOD LENGTH= 5

NUMCYCLE

NUMBER OF CYCLES= 5

DATABASE

DATABASE KEYWORDS:

DSNIN

DSN FOR INPUT CONNECTION IS FVS_Data.accdb
ODBC CONNECT STRING: DRIVER={Microsoft Access Driver (*.mdb,
*.accdb)}; DBQ=C:\FVSData\EID VegMP\FVS_Data.accdb; UID=; PWD=
CONNECTION DATA BASE TYPE: ACCESS

STANDSQL

STANDSQL COMMAND FOR INPUT CONNECTION: FVS_Data.accdb
SELECT *
FROM FVS_StandInit
WHERE Stand_CN= '%Stand_CN%'

STAND-LEVEL DATA BASE READ:
INV_YEAR: 2014
LONGITUDE: 13.0164
REGION: 5
FOREST: 8
DISTRICT: 53
COMPOSITE LOC: 508
LATITUDE: 10.9047
ASPECT: 270.0
SLOPE: 0.00

SlyPark.out.txt
 ELEVFT: 3500.0 CONVERTED TO: 35.0
 BASAL_AREA_FACTOR: 177.0
 INV_PLOT_SIZE: 118.
 BRK_DBH: 21.0
 NUM_PLOTS: 1
 STK_PCNT: 1.000
 DG_TRANS: 0
 DG_MEASURE: 10
 HTG_TRANS: 0
 HTG_MEASURE: 5
 MORT_MEASURE: 5
 SITE_SPECIES: PSME MAPPED TO INTERNAL CODE: DF
 SITE_INDEX: 80.0 FOR SPECIES: DF
 FUEL_1_3_H: 2.299
 FUEL_3_6_H: 0.724
 FUEL_6_12_H: 1.522
 FUEL_12_20_H: 33.528
 FUEL_LITTER: 0.000
 FUEL_DUFF: 5.500
 FUEL_0_25_H: 0.266
 FUEL_25_1_H: 0.400
 FUEL_20_35_H: 1.676
 END OF DATA BASE READ.

TREESQL TREESQL COMMAND FOR INPUT CONNECTION: FVS_Data.accdb
 SELECT *
 FROM FVS_TreeInit
 WHERE Stand_CN= '%Stand_CN%'

COLUMN PROCESSING RESULTS:
 STAND_CN WAS IGNORED
 STAND_ID WAS IGNORED
 STANDPLOT_CN WAS IGNORED
 STANDPLOT_ID WAS IGNORED
 PLOT_ID WAS BOUND
 TREE_ID WAS BOUND
 TREE_COUNT WAS BOUND
 HI STORY WAS BOUND
 SPECIES WAS BOUND
 DBH WAS BOUND
 DG WAS BOUND
 HT WAS BOUND
 HTG WAS BOUND
 HTTPK WAS BOUND
 CRRATIO WAS BOUND
 DAMAGE1 WAS BOUND
 SEVERITY1 WAS BOUND
 DAMAGE2 WAS BOUND
 SEVERITY2 WAS BOUND
 DAMAGE3 WAS BOUND
 SEVERITY3 WAS BOUND
 TREEVALUE WAS BOUND
 PRESCRIPTION WAS BOUND
 AGE WAS BOUND
 SLOPE WAS BOUND
 ASPECT WAS BOUND
 PV_CODE WAS BOUND
 TOPOCODE WAS BOUND
 SITEPREP WAS BOUND
 NUMBER ROWS PROCESSED: 84

END END OF DATA BASE OPTIONS.

THINHT DATE/CYCLE= 2014; MINIMUM HEIGHT= 0.0; MAXIMUM HEIGHT= 999.0;
 PROPORTION OF SELECTED TREES REMOVED= 1.000
 ALL SPECIES (CODE= 0) ARE TARGETED FOR THIS CUT.

FMIN FIRE MODEL KEYWORDS:

CARBREPT THE MAIN CARBON REPORT WILL BE PRINTED.

CARBCUT THE HARVESTED PRODUCTS REPORT WILL BE PRINTED.

CARBCALC CARBON REPORTS WILL BE BASED ON METHOD 0 (0=FFE, 1=JENKINS)
 REPORT UNITS WILL BE 1 (0=US(TONS/ACRE), 1=METRIC(METRIC TONS/HA)
 2=COMBINED(METRIC TONS/ACRE))

PROPORTION OF DEAD ROOTS DECAYING ANNUALLY WILL BE: 0.0425 (<0 = NO DEAD
 ROOTS)

SOFTWOOD DIAMETER BREAKPOINT: 9.0
 HARDWOOD DIAMETER BREAKPOINT: 11.0

END END OF FIRE MODEL OPTIONS.

SPLABEL STAND POLICY LABEL SET:
 All, All_Stands, forest_type=371, Variant=CA_R5

PROCESS PROCESS THE STAND.

***** FVS09 WARNING: PLOT COUNTS DO NOT MATCH DATA ON THE DESIGN RECORD;
 DESIGN RECORD DATA USED.

PLOT COUNT= 8; NONSTOCKABLE COUNT= 0

 OPTIONS SELECTED BY DEFAULT

TREEFMT
 (I4, T1, I7, F6.0, I1, A3, F4.1, F3.1, 2F3.0, F4.1, I1, 3(I2, I2), 2I1, I2, 2I3, 2I1, F3.0)

DESIGN BASAL AREA FACTOR= 177.0; INVERSE OF FIXED PLOT AREA= 118.0; BREAK DBH=
 21.0
 NUMBER OF PLOTS= 1; NON-STOCKABLE PLOTS= 0; STAND SAMPLING
 WEIGHT= 1.0000
 PROPORTION OF STAND CONSIDERED STOCKABLE= 1.000

***** FVS14 WARNING: HABITAT/PLANT ASSOCIATION/ECOREGION CODE WAS NOT
 RECOGNIZED; HABITAT/PLANT ASSOCIATION/ECOREGION SET TO DEFAULT CODE.

PLANT COMMUNITY CODE USED IN THIS PROJECTION IS UNKNOWN

STDINFO FOREST-LOCATION CODE= 508; HABITAT TYPE= 0; AGE= 0; ASPECT
 AZIMUTH IN DEGREES= 270.; SLOPE= 0.0%
 ELEVATION(100' S FEET)= 35.0; REFERENCE CODE=

SPECIES	PC	IC	RC	WF	RF	SH	DF	WH	MH
WB									
SDI MAX	592.	576.	762.	800.	1000.	1000.	570.	682.	687.

SlyPark.out.txt

621.

SPECIES GP SDI MAX 214.	KP	LP	CP	LM	JP	SP	WP	PP	MP
	679.	679.	365.	409.	365.	561.	272.	365.	365.
SPECIES WO SDI MAX 440.	WJ	BR	GS	PY	OS	LO	CY	BL	E0
	272.	412.	576.	576.	365.	667.	667.	214.	214.
SPECIES FL SDI MAX 441.	B0	VO	I0	BM	BU	RA	MA	GC	DG
	406.	440.	667.	629.	440.	441.	515.	785.	406.
SPECIES SDI MAX	WN	TO	SY	AS	CW	WI	CN	CL	OH
	283.	785.	499.	562.	452.	447.	576.	406.	452.

ALPHA SPECIES - FIA CODE CROSS REFERENCE:

DF= 202 ;	PC= 041 ;	IC= 081 ;	RC= 242 ;	WF= 015 ;	RF= 020 ;	SH= 021 ;
SP= 117 ;	WH= 263 ;	MH= 264	WB= 101 ;	KP= 103 ;	LP= 108 ;	CP= 109 ;
OS= 298 ;	MP= 124 ;	GP= 127 ;	WJ= 064 ;	BR= 092 ;	GS= 212 ;	PY= 231 ;
BM= 312 ;	LO= 801 ;	CY= 805	BL= 807 ;	E0= 811 ;	WO= 815 ;	B0= 818 ;
SY= 730 ;	BU= 333 ;	RA= 351	MA= 361 ;	GC= 431 ;	DG= 492 ;	FL= 542 ;
	AS= 746 ;	CW= 747	WI= 920 ;	CN= 251 ;	CL= 981 ;	OH= 998

NATIONAL VOLUME ESTIMATOR LIBRARY EQUATION NUMBERS

SPECIES CUBIC FOOT FOOT SPECIES CUBIC	BOARD FOOT FOOT BOARD	SPECIES CUBIC FOOT FOOT	BOARD FOOT FOOT	SPECIES CUBIC FOOT FOOT	BOARD FOOT FOOT	SPECIES CUBIC FOOT FOOT	BOARD FOOT FOOT
PC 500W02W081	500W02W081	IC 532W02W081	532W02W081	RC 500W02W081			
500W02W081	WF 532W02W015	532W02W015					
RF 532W02W020	532W02W020	SH 500W02W020	500W02W020	DF 532W02W202			
532W02W202	WH 500W02W015	500W02W015					
MH 500W02W015	500W02W015	WB 500W02W108	500W02W108	KP 500W02W108			
500W02W108	LP 532W02W108	532W02W108					
CP 500W02W108	500W02W108	LM 500W02W108	500W02W108	JP 500W02W116			
500W02W116	SP 532W02W117	532W02W117					
WP 500W02W117	500W02W117	PP 532W02W122	532W02W122	MP 500W02W108			
500W02W108	GP 500W02W108	500W02W108					
WJ 500DVEW060	500DVEW060	BR 500W02W015	500W02W015	GS 500DVEW212			
500DVEW212	PY 500W02W108	500W02W108					
OS 500W02W108	500W02W108	LO 500DVEW801	500DVEW801	CY 500DVEW805			
500DVEW805	BL 500DVEW807	500DVEW807					
E0 500DVEW811	500DVEW811	WO 500DVEW815	500DVEW815	B0 500DVEW818			
500DVEW818	VO 500DVEW821	500DVEW821					
I0 500DVEW839	500DVEW839	BM 500DVEW312	500DVEW312	BU 500DVEW807			
500DVEW807	RA 500DVEW351	500DVEW351					
MA 500DVEW361	500DVEW361	GC 500DVEW431	500DVEW431	DG 500DVEW807			
500DVEW807	FL 500DVEW807	500DVEW807					
WN 500DVEW818	500DVEW818	TO 500DVEW631	500DVEW631	SY 500DVEW818			
500DVEW818	AS 500DVEW818	500DVEW818					
CW 500DVEW818	500DVEW818	WI 500DVEW807	500DVEW807	CN 500DVEW807			
500DVEW807	CL 500DVEW981	500DVEW981					
OH 500DVEW801	500DVEW801						

SlyPark.out.txt

SITE CODE SITE INDEX INFORMATION:
 DF= 80.; PC= 72.; IC= 61.; RC= 72.; WF= 80.; RF= 80.; SH= 80.;
 WH= 72.; MH= 72.;
 SP= 80.; WB= 72.; KP= 72.; LP= 72.; CP= 72.; LM= 72.; JP= 80.;
 WP= 72.; PP= 80.;
 OS= 72.; MP= 72.; GP= 72.; WJ= 61.; BR= 61.; GS= 80.; PY= 61.;
 LO= 46.; CY= 46.;
 BM= 46.; BL= 46.; EO= 46.; WO= 46.; BO= 46.; VO= 46.; IO= 46.;
 BU= 46.; RA= 46.;
 SY= 46.; MA= 46.; GC= 46.; DG= 46.; FL= 46.; WN= 46.; TO= 46.;
 AS= 46.; CW= 46.;
 WI= 46.; CN= 46.; CL= 46.; OH= 46.
 SITE SPECIES=DF CODE= 7

INVENTORY POINT CROSS REFERENCE (FVS SEQUENTIAL POINT NUMBER = POINT NUMBER AS ENTERED IN THE INPUT DATA):

1= 121

ACTIVITY SCHEDULE

STAND ID= 050853grnd3005 MGMT ID= NONE Stand 050853grnd3005 at EID VegMP

CYCLE	DATE	EXTENSION	KEYWORD	DATE	PARAMETERS:
1	2014	FIRE	FUELINIT	2014	-1.0000 2.2990 0.7240 1.5220
	33.5280	0.0000	5.5000	0.2664	
		BASE	THINHT	2014	0.3996 1.6764 -1.0000 -1.0000
	0.0000	0.0000			0.0000 999.0000 1.0000 0.0000
2	2019				
3	2024				
4	2029				
5	2034				

CALIBRATION STATISTICS:

	DF	IC	PP	CY	SP	WF
NUMBER OF RECORDS PER SPECIES	52	9	12	3	7	1
NUMBER OF RECORDS CODED AS RECENT MORTALITY	2	0	0	0	0	0
NUMBER OF RECORDS WITH MISSING HEIGHTS	39	6	7	3	7	1
NUMBER OF RECORDS WITH BROKEN OR DEAD TOPS	1	0	0	0	0	0

SlyPark.out.txt

NUMBER OF RECORDS WITH MISSING CROWN RATIOS	0	0	0	0	0	0
NUMBER OF RECORDS AVAILABLE FOR SCALING THE DIAMETER INCREMENT MODEL	4	0	4	0	0	0
RATIO OF STANDARD ERRORS (INPUT DBH GROWTH DATA : MODEL)	1.00	1.00	1.00	1.00	1.00	1.00
WEIGHT GIVEN TO THE INPUT GROWTH DATA WHEN DBH GROWTH MODEL SCALE FACTORS WERE COMPUTED	0.00	0.00	0.00	0.00	0.00	0.00
INITIAL SCALE FACTORS FOR THE DBH INCREMENT MODEL	1.00	1.00	1.00	1.00	1.00	1.00
NUMBER OF RECORDS AVAILABLE FOR SCALING THE SMALL TREE HEIGHT INCREMENT MODEL	4	0	0	0	0	0
INITIAL SCALE FACTORS FOR THE SMALL TREE HEIGHT INCREMENT MODEL	1.00	1.00	1.00	1.00	1.00	1.00
NUMBER OF RECORDS WITH MISTLETOE	0	0	0	0	0	0

WARNING: INITIAL STAND STOCKING OF 413273.3 TREES/ACRE IS MORE THAN 5% ABOVE THE
UPPER LIMIT OF 1390.3 TREES/ACRE.
UPPER LIMIT IS BASED ON A SDI MAXIMUM OF 544.4 AND AN UPPER BOUND OF
85.0 PERCENT OF MAXIMUM.
MAXIMUM SDI BEING RESET TO 161822.2 FOR FURTHER PROCESSING.

FOREST VEGETATION SIMULATOR VERSION 2614 -- INLAND CALIFORNIA /
SOUTHERN CASCADES RV: 20190307 06-06-2019 16:55:35

STAND ID: 050853grnd3005 MGMT ID: NONE Stand 050853grnd3005 at EID
VegMP

STAND COMPOSITION (BASED ON STOCKABLE AREA)

STAND DISTRIBUTION OF STAND ATTRIBUTES BY YEAR ATTRIBUTES SPECIES AND 3 USER-DEFINED SUBCLASSES	PERCENTILE POINTS IN THE DISTRIBUTION OF STAND ATTRIBUTES BY DBH						TOTAL/ACRE OF STAND ATTRIBUTES
	10	30	50	70	90	100	

(DBH IN INCHES)

2014 TREES 33. % DF2, 29. % DF3, VOLUME: TOTAL 26. % DF2, 18. % DF1,	1.2	1.8	2.5	3.4	8.3	47.3	413273. TREES
	19. % DF1,	6. % PP2					
	6.8	13.3	17.9	25.9	37.8	47.3	2015026. CUFT
	17. % DF3,	7. % PP2					

SlyPark.out.txt									
25. %	MERCH	10.3	14.7	20.3	28.2	39.5	47.3	1532253.	CUFT
DF2,	21. % DF1,	14. % DF3,	6. % PP3						
24. %	MERCH	10.3	17.9	23.7	31.7	40.4	47.3	6918057.	BDFT
DF2,	21. % DF1,	14. % DF3,	8. % PP3						
37. %	REMOVAL	1.4	1.9	2.8	3.4	12.2	47.3	99999.	TREES
DF1,	30. % DF2,	12. % IC2,	11. % PP2						
28. %	VOLUME:								
DF2,	TOTAL	9.6	14.7	17.9	23.7	39.5	47.3	663240.	CUFT
25. % DF1,	20. % DF3,	11. % PP1							
30. %	MERCH	12.2	16.2	20.5	23.7	40.3	47.3	537833.	CUFT
DF2,	27. % DF1,	20. % DF3,	12. % PP1						
28. %	MERCH	12.2	16.2	20.5	25.9	41.1	47.3	2426066.	BDFT
DF1,	28. % DF2,	19. % DF3,	12. % PP1						
36. %	RESI DUAL	1.2	1.8	2.1	3.3	7.7	46.5	313274.	TREES
DF3,	34. % DF2,	13. % DF1,	5. % PP2						
33. %	ACCRETI ON	1.6	6.4	7.7	10.9	20.3	46.5	10563.	CUFT/YR
DF2,	29. % DF3,	13. % DF1,	9. % SP3						
38. %	MORTALI TY	4.1	6.8	9.7	13.3	19.8	46.5	1508.	CUFT/YR
DF2,	20. % DF3,	11. % DF1,	10. % CY3						
2019	TREES	1.6	1.8	2.4	3.3	8.3	46.7	308024.	TREES
36. %	DF3,	34. % DF2,	13. % DF1,	4. % PP2					
25. %	VOLUME:								
DF2,	TOTAL	6.8	10.9	17.9	26.8	37.0	46.7	1397058.	CUFT
16. % DF3,	15. % DF1,	8. % SP3							
23. %	MERCH	10.3	14.5	20.3	31.1	39.0	46.7	1012343.	CUFT
DF2,	17. % DF1,	11. % DF3,	9. % PP2						
23. %	MERCH	9.7	14.5	23.8	31.7	39.0	46.7	4685932.	BDFT
DF2,	18. % DF1,	10. % DF3,	9. % PP2						
44. %	ACCRETI ON	2.6	6.4	7.7	10.9	20.3	46.7	9104.	CUFT/YR
DF2,	23. % DF3,	11. % DF1,	8. % SP3						
37. %	MORTALI TY	4.1	6.8	9.7	13.3	19.8	46.7	1671.	CUFT/YR
DF2,	22. % DF3,	11. % DF1,	9. % CY3						
2024	TREES	1.8	2.1	2.6	3.3	8.3	47.0	302774.	TREES
36. %	DF3,	34. % DF2,	13. % DF1,	4. % PP2					
26. %	VOLUME:								
DF2,	TOTAL	6.4	10.9	17.9	26.8	36.9	47.0	1434223.	CUFT
16. % DF3,	15. % DF1,	8. % SP3							
23. %	MERCH	10.3	14.5	20.3	31.1	37.8	47.0	1031968.	CUFT
DF2,	17. % DF1,	11. % DF3,	9. % PP2						
23. %	MERCH	9.7	14.5	23.8	31.7	39.0	47.0	4741343.	BDFT
DF2,	17. % DF1,	11. % DF3,	9. % PP2						
32. %	ACCRETI ON	2.0	4.3	7.7	10.9	20.3	47.0	9360.	CUFT/YR
DF2,	30. % DF3,	13. % DF1,	9. % SP3						
38. %	MORTALI TY	3.3	6.8	9.7	13.3	19.8	47.0	1796.	CUFT/YR
DF2,	22. % DF3,	11. % DF1,	9. % CY3						

SlyPark.out.txt

2029 TREES 2.1 2.3 2.7 4.1 8.3 47.1 297524. TREES
 36.% DF3, 34.% DF2, 13.% DF1, 4.% PP2
 VOLUME:
 TOTAL 6.4 10.3 17.9 26.8 36.9 47.1 1472042. CUFT
 26.% DF2, 17.% DF3, 15.% DF1, 8.% SP3
 MERCH 10.3 14.5 20.3 31.1 37.8 47.1 1052734. CUFT
 24.% DF2, 17.% DF1, 11.% DF3, 9.% PP2
 MERCH 9.7 14.5 23.8 31.7 39.0 47.1 4820226. BDFT
 23.% DF2, 17.% DF1, 11.% DF3, 9.% PP2
 ACCRETION 2.6 6.4 7.7 10.9 20.3 47.1 8503. CUFT/YR
 37.% DF2, 25.% DF3, 11.% DF1, 10.% SP3
 MORTALITY 3.0 6.8 9.7 13.3 19.8 47.1 1921. CUFT/YR
 37.% DF2, 23.% DF3, 11.% DF1, 9.% SP3

2034 TREES 2.3 2.5 2.7 4.1 8.3 47.3 292275. TREES
 36.% DF3, 34.% DF2, 13.% DF1, 4.% PP2
 VOLUME:
 TOTAL 6.4 10.3 17.9 26.8 36.9 47.3 1504950. CUFT
 26.% DF2, 17.% DF3, 15.% DF1, 8.% SP3
 MERCH 10.3 14.5 20.3 31.1 37.8 47.3 1068947. CUFT
 24.% DF2, 17.% DF1, 11.% DF3, 9.% PP2
 MERCH 9.7 14.5 23.8 31.7 39.0 47.3 4950812. BDFT
 24.% DF2, 17.% DF1, 10.% DF3, 9.% PP2
 ACCRETION 2.4 4.3 7.7 10.9 20.3 47.3 8420. CUFT/YR
 35.% DF2, 28.% DF3, 13.% DF1, 10.% SP3
 MORTALITY 2.9 6.4 8.3 13.3 19.8 47.3 2038. CUFT/YR
 37.% DF2, 23.% DF3, 11.% DF1, 9.% SP3

2039 TREES 2.5 2.6 2.8 4.1 8.3 47.5 287024. TREES
 36.% DF3, 34.% DF2, 13.% DF1, 4.% PP2
 VOLUME:
 TOTAL 6.4 10.3 17.9 23.8 36.9 47.5 1536862. CUFT
 27.% DF2, 17.% DF3, 15.% DF1, 8.% SP3
 MERCH 10.3 14.5 20.3 31.1 37.8 47.5 1075336. CUFT
 24.% DF2, 17.% DF1, 11.% DF3, 9.% PP2
 MERCH 10.3 14.5 23.8 31.7 39.0 47.5 5025130. BDFT
 24.% DF2, 17.% DF1, 10.% DF3, 9.% PP2

FOREST VEGETATION SIMULATOR VERSION 2614 -- INLAND CALIFORNIA /
 SOUTHERN CASCADES RV: 20190307 06-06-2019 16:55:37

STAND ID: 050853grnd3005 MGMT ID: NONE Stand 050853grnd3005 at EID
 VegMP

 ATTRIBUTES OF SELECTED SAMPLE TREES ADDITIONAL
 STAND ATTRIBUTES (BASED ON STOCKABLE AREA)

INITIAL LIVE PAST DBH BASAL TREES
 QUADRATIC TREES BASAL TOP HEIGHT CROWN
 Page 8

MEAN YEAR (INCHES)	DBH (INCHES)	TREES/A PER ACRE	AREA (SQFT/A)	DBH (INCHES)	HEIGHT LARGEST (FEET)	CROWN COMP RATIO	GROWTH (INCHES)	AREA %TILE	PER ACRE	STAND AGE
--------------------	--------------	------------------	---------------	--------------	-----------------------	------------------	-----------------	------------	----------	-----------

2014

(10 YRS)

10	DF1		1.20	9.42	55	0.00	0.4	*****	
30	DF1		1.80	12.69	20	0.00	1.7	*****	
50	DF2		2.50	16.50	40	0.00	4.0	*****	
70	DF1		3.40	22.12	65	0.00	9.2	*****	
90	DF2		8.30	53.65	65	0.00	30.3	6281.17	
100	PP1		47.30	157.91	35	0.00	100.0	23.77	

0

5.9 ***** ***** 142.1 *****

RESI DUAL:

5.6 ***** ***** 131.6 *****

2019 **

(5 YRS)

10	DF3		1.58	11.49	62	0.34	1.0	*****	
30	DF3		2.12	14.88	52	0.29	4.2	*****	
50	DF3		2.36	16.75	67	0.23	5.3	*****	
70	DF2		3.30	24.52	86	0.00	10.0	*****	
90	DF2		7.70	54.24	42	0.00	30.6	7216.13	
100	DF1		46.64	120.13	60	0.12	99.9	25.45	

5

5.7 ***** ***** 132.5 *****

2024

(5 YRS)

10	DF3		1.96	13.69	59	0.34	2.1	*****	
30	DF3		2.35	17.09	49	0.21	4.9	*****	
50	DF3		2.55	19.30	64	0.17	6.5	*****	
70	DF2		3.30	27.76	82	0.00	11.1	*****	
90	DF2		7.70	58.11	44	0.00	30.7	7132.66	
100	DF1		46.76	121.23	60	0.10	99.8	25.44	

10

5.7 ***** ***** 133.4 *****

2029

(5 YRS)

10	DF3		2.24	15.91	56	0.25	2.8	*****	
30	DF3		2.52	19.35	47	0.15	5.6	*****	
50	DF3		2.66	21.98	61	0.10	7.6	*****	
70	DF2		3.30	31.16	78	0.00	12.3	*****	
90	DF2		7.70	61.36	45	0.00	31.4	7047.97	
100	DF1		46.94	122.30	60	0.16	99.8	25.44	

15

5.8 ***** ***** 134.2 *****

2034

(5 YRS)

10	DF3		2.44	18.21	53	0.19	4.0	*****	
30	DF3		2.63	21.80	45	0.09	6.2	*****	
50	DF3		2.74	24.80	58	0.08	8.4	*****	
70	DF2		3.30	34.71	74	0.00	13.1	*****	
90	DF2		7.70	64.72	45	0.00	31.9	6963.02	
100	DF1		47.09	123.35	60	0.13	99.8	25.43	

20

5.9 ***** ***** 135.1 *****

SlyPark.out.txt

2039 (5 YRS)

10	DF3	2.59	20.76	50	0.13	5.2	*****
30	DF3	2.71	24.31	43	0.07	6.4	*****
50	DF3	2.81	27.77	55	0.06	9.1	*****
70	DF2	3.30	38.39	70	0.00	13.7	*****
90	DF2	7.70	67.22	45	0.00	32.4	6877.66
100	DF1	47.19	124.36	60	0.09	99.8	25.42

25

5.9 ***** 135.9 *****

** NOTE: DUE TO HARVEST, COMPRESSION, OR REGENERATION ESTABLISHMENT, NEW SAMPLE TREES WERE SELECTED.

FOREST VEGETATION SIMULATOR VERSION 2614 -- INLAND CALIFORNIA / SOUTHERN CASCADES RV: 20190307 06-06-2019 16:55:37

STAND POLICIES: All, All_Stands, forest_type=371, Variant=CA_R5

STAND ID: 050853grnd3005 MGMT ID: NONE Stand 050853grnd3005 at EID VegMP

SUMMARY STATISTICS (PER ACRE OR STAND BASED ON TOTAL

STAND AREA)

START OF SIMULATION PERIOD										REMOVALS											
AFTER TREATMENT					GROWTH THIS PERIOD																
										MAI											
NO OF		TOP		TOTAL MERCH		MERCH		NO OF		TOTAL MERCH		MERCH									
YEAR	AGE	TREES	BA	SDI	CCF	HT	QMD	CU	FT	CU	FT	BD	FT	TREES	CU	FT	CU	FT	BD	FT	BA
SDI	CCF	HT	QMD	YEARS	PER	YEAR	CU	FT	TYP	ZT											
2014	0413273	*****	*****	*****	142	5.9	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
99999663240537833	*****	*****	*****	*****	96487	5.6	*****	*****	*****	*****	*****	*****	*****	510563	1508	0.0	371	11			
2019	5308024	*****	*****	*****	133	5.7	*****	*****	*****	*****	*****	*****	*****	0	0	0					
0*****	98183	*****	*****	*****	133	5.7	*****	*****	*****	*****	*****	*****	*****	0	0	0					
2024	10302774	*****	*****	*****	133	5.7	*****	*****	*****	*****	*****	*****	*****	0	0	0					
0*****	99615	*****	*****	*****	133	5.7	*****	*****	*****	*****	*****	*****	*****	0	0	0					
2029	15297524	*****	*****	*****	134	5.8	*****	*****	*****	*****	*****	*****	*****	0	0	0					
0*****	*****	*****	*****	*****	134	5.8	*****	*****	*****	*****	*****	*****	*****	0	0	0					
2034	20292275	*****	*****	*****	135	5.9	*****	*****	*****	*****	*****	*****	*****	0	0	0					
0*****	*****	*****	*****	*****	135	5.9	*****	*****	*****	*****	*****	*****	*****	0	0	0					
2039	25287025	*****	*****	*****	136	5.9	*****	*****	*****	*****	*****	*****	*****	0	0	0					
0*****	*****	*****	*****	*****	136	5.9	*****	*****	*****	*****	*****	*****	*****	0	0	0					

ACTIVITY SUMMARY

STAND ID= 050853grnd3005 MGMT ID= NONE Stand 050853grnd3005 at EID VegMP

CYCLE	DATE	EXTENSION	KEYWORD	DATE	ACTIVITY DISPOSITION	PARAMETERS:
1	2014					
		BASE	THINHT	2014	DONE IN 2014	0.0000 999.0000
1.0000		0.0000	0.0000		0.0000	
		FIRE	FUELNIT	2014	DONE IN 2014	-1.0000 2.2990
0.7240		1.5220	33.5280		0.0000	
						5.5000 0.2664
0.3996		1.6764	-1.0000		-1.0000	
2	2019					
3	2024					
4	2029					
5	2034					

***** CARBON REPORT VERSION 1.0 *****
 STAND CARBON REPORT (BASED ON STOCKABLE

AREA)

ALL VARIABLES ARE REPORTED IN METRIC TONS/HECTARE

STAND ID: 050853grnd3005

MGMT ID: NONE

Total	Aboveground Live		Belowground		Stand	Forest		
	Total	Carbon	Live	Dead		Dead	DDW	Floor
Stand	Removed	Released						
YEAR	Total	Merch	Live	Dead	Dead			
Carbon	Carbon	from Fire						
2014	27887.4	14963.9	7668.5	3832.7	144.7	2204.1	661.9	0.5
42399.8	10082.1		0.0					
2019	28590.2	15240.5	7696.1	3135.5	304.3	2160.9	713.4	0.5
42600.8	0.0		0.0					
2024	29137.0	15542.6	7721.6	2577.0	405.1	2468.6	753.8	0.5
43063.6	0.0		0.0					
2029	29722.1	15867.4	7735.6	2129.6	465.6	2780.8	792.0	0.5
43626.2	0.0		0.0					
2034	30226.0	16106.7	7736.3	1771.1	497.4	3082.7	832.5	0.5
44146.5	0.0		0.0					

***** CARBON REPORT VERSION 1.0 *****
 HARVESTED PRODUCTS REPORT (BASED ON STOCKABLE

AREA)

ALL VARIABLES ARE REPORTED IN METRIC TONS/HECTARE

STAND ID: 050853grnd3005

MGMT ID: NONE

Merch Carbon

YEAR	Prducts	Lndfi II	Energy	Sl yPark. out. txt Emi ssns	Stored	Removed
2014	5540.3	0.0	1394.7	1278.9	5540.3	8213.9
2019	4275.3	591.4	1725.7	1621.4	4866.7	8213.9
2024	3481.1	952.8	1931.9	1848.1	4433.9	8213.9
2029	2984.1	1174.6	2057.6	1997.6	4158.7	8213.9
2034	2649.8	1318.3	2138.1	2107.7	3968.1	8213.9

FOREST VEGETATION SIMULATOR VERSION 2614 -- INLAND CALIFORNIA /
SOUTHERN CASCADES RV: 20190307 06-06-2019 16:56:26

OPTIONS SELECTED BY INPUT

KEYWORD FILE NAME: EIDVegMP2.key

KEYWORD PARAMETERS:

COMMENT

Starting year for simulation is 2014
Ending year for simulation is 2039
Min and Max inventory years are 2014 2014
Common cycle length is 5

END

STIDENT

STAND ID= 050853grnd3010

Stand 050853grnd3010 at EID

VegMP

SCREEN PROGRESSES.

SUMMARY TABLE WILL BE PRINTED TO DATA SET REFERENCE NUMBER 6 AS RUN

STANDCN

DATA BASE CONTROL NUMBER=250010466

INVYEAR

INVENTORY YEAR= 2014

TIMEINT

ALL CYCLES; PERIOD LENGTH= 5

NUMCYCLE

NUMBER OF CYCLES= 5

DATABASE

DATABASE KEYWORDS:

DSNIN

DSN FOR INPUT CONNECTION IS FVS_Data.accdb
ODBC CONNECT STRING: DRIVER={Microsoft Access Driver (*.mdb,
*.accdb)}; DBQ=C:\FVSData\EID VegMP\FVS_Data.accdb; UID=; PWD=
CONNECTION DATA BASE TYPE: ACCESS

STANDSQL

STANDSQL COMMAND FOR INPUT CONNECTION: FVS_Data.accdb
SELECT *
FROM FVS_StandInit
WHERE Stand_CN= '%Stand_CN%'

STAND-LEVEL DATA BASE READ:

INV_YEAR: 2014
LONGITUDE: 12.0164
REGION: 5
FOREST: 8
DISTRICT: 53
COMPOSITE LOC: 508
LATITUDE: 10.9047
ASPECT: 90.0
SLOPE: 0.17

```

Webber.out.txt
ELEVFT:                2600.0 CONVERTED TO:    26.0
BASAL_AREA_FACTOR:    235.0
INV_PLOT_SIZE:        370.
BRK_DBH:              21.0
NUM_PLOTS:            1
STK_PCNT:             1.000
DG_TRANS:             0
DG_MEASURE:           10
HTG_TRANS:            0
HTG_MEASURE:          5
MORT_MEASURE:         5
SITE_SPECIES:         PSME MAPPED TO INTERNAL CODE: DF
SITE_INDEX:           80.0 FOR SPECIES: DF
FUEL_1_3_H:           1.936
FUEL_3_6_H:           2.519
FUEL_6_12_H:          0.000
FUEL_12_20_H:         0.000
FUEL_LITTER:          0.000
FUEL_DUFF:            4.000
FUEL_0_25_H:          0.146
FUEL_25_1_H:          0.218
FUEL_20_35_H:         0.000
END OF DATA BASE READ.

```

```

TREETSQL TREETSQL COMMAND FOR INPUT CONNECTION: FVS_Data.accdb
SELECT *
FROM FVS_TreeInit
WHERE Stand_CN= '%Stand_CN%'

```

```

COLUMN PROCESSING RESULTS:
STAND_CN          WAS IGNORED
STAND_ID          WAS IGNORED
STANDPLOT_CN     WAS IGNORED
STANDPLOT_ID     WAS IGNORED
PLOT_ID          WAS BOUND
TREE_ID          WAS BOUND
TREE_COUNT       WAS BOUND
HI STORY         WAS BOUND
SPECIES          WAS BOUND
DBH              WAS BOUND
DG               WAS BOUND
HT               WAS BOUND
HTG              WAS BOUND
HTTOPK          WAS BOUND
CRRATIO         WAS BOUND
DAMAGE1          WAS BOUND
SEVERITY1       WAS BOUND
DAMAGE2          WAS BOUND
SEVERITY2       WAS BOUND
DAMAGE3          WAS BOUND
SEVERITY3       WAS BOUND
TREEVALUE       WAS BOUND
PRESCRIPTION    WAS BOUND
AGE              WAS BOUND
SLOPE            WAS BOUND
ASPECT           WAS BOUND
PV_CODE         WAS BOUND
TOPOCODE        WAS BOUND
SITEPREP        WAS BOUND
NUMBER ROWS PROCESSED: 35

```

```

END END OF DATA BASE OPTIONS.

```


THINNT DATE/CYCLE= 2014; MINIMUM HEIGHT= 0.0; MAXIMUM HEIGHT= 60.0;
PROPORTION OF SELECTED TREES REMOVED= 1.000
ALL SPECIES (CODE= 0) ARE TARGETED FOR THIS CUT.

FMIN FIRE MODEL KEYWORDS:

CARBREPT THE MAIN CARBON REPORT WILL BE PRINTED.

CARBCUT THE HARVESTED PRODUCTS REPORT WILL BE PRINTED.

CARBCALC CARBON REPORTS WILL BE BASED ON METHOD 0 (0=FFE, 1=JENKINS)
REPORT UNITS WILL BE 1 (0=US(TONS/ACRE), 1=METRIC(METRIC TONS/HA)
2=COMBINED(METRIC TONS/ACRE))

PROPORTION OF DEAD ROOTS DECAYING ANNUALLY WILL BE: 0.0425 (<0 = NO DEAD
ROOTS)

SOFTWOOD DIAMETER BREAKPOINT: 9.0
HARDWOOD DIAMETER BREAKPOINT: 11.0

END END OF FIRE MODEL OPTIONS.

SPLABEL STAND POLICY LABEL SET:
All, All_Stands, forest_type=371, Variant=CA_R5

PROCESS PROCESS THE STAND.

***** FVS09 WARNING: PLOT COUNTS DO NOT MATCH DATA ON THE DESIGN RECORD;
DESIGN RECORD DATA USED.

PLOT COUNT= 5; NONSTOCKABLE COUNT= 0

OPTI ONS SELECTED BY DEFAULT

TREEFMT
(I4, T1, I7, F6.0, I1, A3, F4.1, F3.1, 2F3.0, F4.1, I1, 3(I2, I2), 2I1, I2, 2I3, 2I1, F3.0)

DESIGN BASAL AREA FACTOR= 235.0; INVERSE OF FIXED PLOT AREA= 370.0; BREAK DBH=
21.0
WEIGHT= NUMBER OF PLOTS= 1; NON-STOCKABLE PLOTS= 0; STAND SAMPLING
1.0000
PROPORTION OF STAND CONSIDERED STOCKABLE= 1.000

***** FVS14 WARNING: HABITAT/PLANT ASSOCIATION/ECOREGION CODE WAS NOT
RECOGNIZED; HABITAT/PLANT ASSOCIATION/ECOREGION SET TO DEFAULT CODE.

PLANT COMMUNITY CODE USED IN THIS PROJECTION IS UNKNOWN

STDI NFO FOREST-LOCATI ON CODE= 508; HABITAT TYPE= 0; AGE= 0; ASPECT
AZI MUTH I N DEGREES= 90.; SLOPE= 0.%
ELEVATI ON(100' S FEET)= 26.0; REFERENCE CODE=

SPECIES	PC	IC	RC	WF	RF	SH	DF	WH	MH
WB									
SDI MAX	592.	576.	762.	800.	1000.	1000.	570.	682.	687.

Webber.out.txt

621.

SPECIES GP SDI MAX 214.	KP	LP	CP	LM	JP	SP	WP	PP	MP
	679.	679.	365.	409.	365.	561.	272.	365.	365.
SPECIES WO SDI MAX 440.	WJ	BR	GS	PY	OS	LO	CY	BL	EO
	272.	412.	576.	576.	365.	667.	667.	214.	214.
SPECIES FL SDI MAX 441.	B0	VO	I0	BM	BU	RA	MA	GC	DG
	406.	440.	667.	629.	440.	441.	515.	785.	406.
SPECIES SDI MAX	WN	TO	SY	AS	CW	WI	CN	CL	OH
	283.	785.	499.	562.	452.	447.	576.	406.	452.

ALPHA SPECIES - FIA CODE CROSS REFERENCE:

DF= 202 ;	PC= 041 ;	IC= 081 ;	RC= 242 ;	WF= 015 ;	RF= 020 ;	SH= 021 ;
SP= 117 ;	WH= 263 ;	MH= 264	WB= 101 ;	KP= 103 ;	LP= 108 ;	CP= 109 ;
OS= 298 ;	MP= 124 ;	GP= 127 ;	WJ= 064 ;	BR= 092 ;	GS= 212 ;	PY= 231 ;
BM= 312 ;	LO= 801 ;	CY= 805	BL= 807 ;	EO= 811 ;	WO= 815 ;	B0= 818 ;
SY= 730 ;	BU= 333 ;	RA= 351	MA= 361 ;	GC= 431 ;	DG= 492 ;	FL= 542 ;
	AS= 746 ;	CW= 747	WI= 920 ;	CN= 251 ;	CL= 981 ;	OH= 998

NATIONAL VOLUME ESTIMATOR LIBRARY EQUATION NUMBERS

SPECIES CUBIC FOOT FOOT SPECIES CUBIC	BOARD FOOT FOOT BOARD	SPECIES CUBIC FOOT FOOT	BOARD FOOT FOOT	SPECIES CUBIC FOOT FOOT	BOARD FOOT FOOT	SPECIES CUBIC FOOT FOOT	BOARD FOOT FOOT
PC 500W02W081	500W02W081	IC 532W02W081	532W02W081	RC	500W02W081		
500W02W081	WF 532W02W015	532W02W015					
RF 532W02W020	532W02W020	SH 500W02W020	500W02W020	DF	532W02W202		
532W02W202	WH 500W02W015	500W02W015					
MH 500W02W015	500W02W015	WB 500W02W108	500W02W108	KP	500W02W108		
500W02W108	LP 532W02W108	532W02W108					
CP 500W02W108	500W02W108	LM 500W02W108	500W02W108	JP	500W02W116		
500W02W116	SP 532W02W117	532W02W117					
WP 500W02W117	500W02W117	PP 532W02W122	532W02W122	MP	500W02W108		
500W02W108	GP 500W02W108	500W02W108					
WJ 500DVEW060	500DVEW060	BR 500W02W015	500W02W015	GS	500DVEW212		
500DVEW212	PY 500W02W108	500W02W108					
OS 500W02W108	500W02W108	LO 500DVEW801	500DVEW801	CY	500DVEW805		
500DVEW805	BL 500DVEW807	500DVEW807					
EO 500DVEW811	500DVEW811	WO 500DVEW815	500DVEW815	B0	500DVEW818		
500DVEW818	VO 500DVEW821	500DVEW821					
I0 500DVEW839	500DVEW839	BM 500DVEW312	500DVEW312	BU	500DVEW807		
500DVEW807	RA 500DVEW351	500DVEW351					
MA 500DVEW361	500DVEW361	GC 500DVEW431	500DVEW431	DG	500DVEW807		
500DVEW807	FL 500DVEW807	500DVEW807					
WN 500DVEW818	500DVEW818	TO 500DVEW631	500DVEW631	SY	500DVEW818		
500DVEW818	AS 500DVEW818	500DVEW818					
CW 500DVEW818	500DVEW818	WI 500DVEW807	500DVEW807	CN	500DVEW807		
500DVEW807	CL 500DVEW981	500DVEW981					
OH 500DVEW801	500DVEW801						

Webber.out.txt

SITE CODE SITE INDEX INFORMATION:

DF= 80.; PC= 72.; IC= 61.; RC= 72.; WF= 80.; RF= 80.; SH= 80.;
 WH= 72.; MH= 72.;
 SP= 80.; WB= 72.; KP= 72.; LP= 72.; CP= 72.; LM= 72.; JP= 80.;
 WP= 72.; PP= 80.;
 OS= 72.; MP= 72.; GP= 72.; WJ= 61.; BR= 61.; GS= 80.; PY= 61.;
 LO= 46.; CY= 46.;
 BM= 46.; BL= 46.; EO= 46.; WO= 46.; BO= 46.; VO= 46.; IO= 46.;
 BU= 46.; RA= 46.;
 SY= 46.; MA= 46.; GC= 46.; DG= 46.; FL= 46.; WN= 46.; TO= 46.;
 AS= 46.; CW= 46.;
 WI= 46.; CN= 46.; CL= 46.; OH= 46.
 SITE SPECIES=DF CODE= 7

INVENTORY POINT CROSS REFERENCE (FVS SEQUENTIAL POINT NUMBER = POINT NUMBER AS ENTERED IN THE INPUT DATA):

1= 12

ACTIVITY SCHEDULE

STAND ID= 050853grnd3010
 VegMP

MGMT ID= NONE Stand 050853grnd3010 at EID

CYCLE DATE EXTENSION KEYWORD DATE PARAMETERS:

CYCLE	DATE	EXTENSION	KEYWORD	DATE	PARAMETERS:
1	2014				
	0.0000	FIRE 0.0000	FUELINIT 4.0000	2014 0.1456	-1.0000 1.9360 2.5190 0.0000
	0.0000	BASE 0.0000	THINHT	2014	0.2184 0.0000 60.0000 -1.0000 1.0000 -1.0000 0.0000
2	2019				
3	2024				
4	2029				
5	2034				

CALIBRATION STATISTICS:

	SP	PP	DF	BO
NUMBER OF RECORDS PER SPECIES	3	8	22	2
NUMBER OF RECORDS CODED AS RECENT MORTALITY	0	0	0	0
NUMBER OF RECORDS WITH MISSING HEIGHTS	2	2	13	2
NUMBER OF RECORDS WITH BROKEN OR DEAD TOPS	0	0	2	0

Webber.out.txt

NUMBER OF RECORDS WITH MISSING CROWN RATIOS 0 0 0 0

***** FVS27 WARNING: CALCULATED CALIBRATION VALUE OUTSIDE REASONABLE RANGE. CALIBRATION OF THIS SPECIES BEING TURNED OFF. LARGE TREE DG: SPECIES = 18 (PP) CALCULATED CALIBRATION VALUE = *****

NUMBER OF RECORDS AVAILABLE FOR SCALING THE DIAMETER INCREMENT MODEL 1 5 3 0

RATIO OF STANDARD ERRORS (INPUT DBH GROWTH DATA : MODEL) 1.00 1.45 1.00 1.00

WEIGHT GIVEN TO THE INPUT GROWTH DATA WHEN DBH GROWTH MODEL SCALE FACTORS WERE COMPUTED 0.00 1.00 0.00 0.00

INITIAL SCALE FACTORS FOR THE DBH INCREMENT MODEL 1.00 1.00 1.00 1.00

NUMBER OF RECORDS AVAILABLE FOR SCALING THE SMALL TREE HEIGHT INCREMENT MODEL 0 0 3 0

INITIAL SCALE FACTORS FOR THE SMALL TREE HEIGHT INCREMENT MODEL 1.00 1.00 1.00 1.00

NUMBER OF RECORDS WITH MISTLETOE 0 0 0 0

WARNING: INITIAL STAND STOCKING OF 390112.6 TREES/ACRE IS MORE THAN 5% ABOVE THE UPPER LIMIT OF 941.1 TREES/ACRE. UPPER LIMIT IS BASED ON A SDI MAXIMUM OF 469.9 AND AN UPPER BOUND OF 85.0 PERCENT OF MAXIMUM. MAXIMUM SDI BEING RESET TO 194790.6 FOR FURTHER PROCESSING.

FOREST VEGETATION SIMULATOR VERSION 2614 -- INLAND CALIFORNIA / SOUTHERN CASCADES RV: 20190307 06-06-2019 16:56:26

STAND ID: 050853grnd3010 MGMT ID: NONE Stand 050853grnd3010 at EID VegMP

STAND COMPOSITION (BASED ON STOCKABLE AREA)

Table with columns: STAND DISTRIBUTION OF STAND ATTRIBUTES BY YEAR, PERCENTILE POINTS IN THE DISTRIBUTION OF STAND ATTRIBUTES BY DBH (10, 30, 50, 70, 90, 100), and TOTAL/ACRE OF STAND ATTRIBUTES. Includes a note '(DBH IN INCHES)' at the bottom.

		Webber.out.txt						
2014	TREES	1.2	2.2	2.5	7.3	10.5	45.3	390113. TREES
41. %	DF3, 24. % DF1,	15. % PP1,		9. % DF2				
	VOLUME:							
	TOTAL	7.6	10.5	16.7	19.2	32.3	45.3	2228031. CUFT
25. %	PP1, 20. % DF1,	18. % DF3,		11. % B02				
	MERCH	8.7	11.0	17.0	19.2	37.2	45.3	1702757. CUFT
24. %	PP1, 23. % DF1,	20. % DF3,		9. % SP1				
	MERCH	8.7	11.0	17.0	22.0	38.6	45.3	7127764. BDFT
26. %	DF1, 22. % PP1,	22. % DF3,		8. % B02				
	REMOVAL	1.2	1.2	2.2	2.2	7.3	9.5	99999. TREES
38. %	DF1, 37. % DF3,	25. % PP1,		0. % ---				
	VOLUME:							
	TOTAL	7.3	7.3	7.3	7.3	7.3	9.5	94303. CUFT
92. %	PP1, 4. % DF1,	4. % DF3,		0. % ---				
	MERCH	7.3	7.3	7.3	7.3	7.3	9.5	46866. CUFT
92. %	PP1, 8. % DF1,	0. % ---,		0. % ---				
	MERCH	7.3	7.3	7.3	7.3	7.3	9.5	267878. BDFT
95. %	PP1, 5. % DF1,	0. % ---,		0. % ---				
	RESI DUAL	1.0	2.2	2.5	7.6	11.0	45.3	290114. TREES
43. %	DF3, 19. % DF1,	13. % DF2,		11. % PP1				
	ACCRETI ON	2.5	8.7	10.5	16.7	19.2	45.3	11037. CUFT/YR
32. %	PP1, 27. % DF3,	12. % B01,		10. % SP1				
	MORTALI TY	7.6	7.6	9.5	11.0	16.7	45.3	3505. CUFT/YR
32. %	B01, 19. % B02,	19. % PP1,		13. % DF1				
2019	TREES	1.3	2.4	2.6	7.6	11.0	45.3	284864. TREES
43. %	DF3, 20. % DF1,	13. % DF2,		11. % PP1				
	VOLUME:							
	TOTAL	7.6	11.0	16.7	19.2	32.3	45.3	2171390. CUFT
22. %	PP1, 21. % DF1,	19. % DF3,		12. % B02				
	MERCH	9.5	11.0	17.0	19.2	37.2	45.3	1692033. CUFT
23. %	DF1, 23. % PP1,	21. % DF3,		10. % SP1				
	MERCH	8.7	11.0	17.0	22.0	38.6	45.3	7194186. BDFT
25. %	DF1, 22. % DF3,	21. % PP1,		9. % SP1				
	ACCRETI ON	2.3	7.6	10.5	12.0	19.2	45.3	11603. CUFT/YR
26. %	PP1, 25. % DF3,	14. % DF1,		9. % SP1				
	MORTALI TY	7.6	7.6	9.5	11.0	16.7	45.3	3821. CUFT/YR
30. %	B01, 19. % PP1,	18. % B02,		13. % DF3				
2024	TREES	1.7	2.5	2.7	7.6	11.0	45.3	279614. TREES
43. %	DF3, 20. % DF1,	13. % DF2,		11. % PP1				
	VOLUME:							
	TOTAL	7.6	11.0	16.7	19.2	32.3	45.3	2210296. CUFT
22. %	PP1, 21. % DF1,	20. % DF3,		12. % B02				
	MERCH	9.5	11.0	17.0	19.2	37.2	45.3	1691965. CUFT
23. %	DF1, 23. % PP1,	21. % DF3,		10. % SP1				
	MERCH	8.7	12.0	17.0	22.0	38.6	45.3	7191550. BDFT
25. %	DF1, 22. % DF3,	21. % PP1,		9. % SP1				
	ACCRETI ON	7.6	8.7	11.0	16.7	19.2	45.3	9667. CUFT/YR

Webber.out.txt

37. % PP1, 22. % DF3, 11. % SP1, 11. % DF1
 MORTALITY 7.6 7.6 9.5 11.0 16.7 45.3 4069. CUFT/YR
 29. % B01, 20. % PP1, 18. % B02, 13. % DF3

2029 TREES 2.0 2.6 2.8 7.6 11.0 45.3 274363. TREES
 43. % DF3, 20. % DF1, 13. % DF2, 11. % PP1
 VOLUME:
 TOTAL 7.6 11.0 16.7 19.2 32.3 45.3 2238286. CUFT
 23. % PP1, 20. % DF1, 20. % DF3, 11. % B02
 MERCH 9.5 11.0 17.0 19.2 37.2 45.3 1728664. CUFT
 24. % PP1, 23. % DF1, 21. % DF3, 10. % SP1
 MERCH 8.7 11.0 17.0 22.0 38.6 45.3 7485158. BDFT
 25. % DF1, 23. % DF3, 21. % PP1, 9. % SP1

ACCRETION 2.6 7.6 10.5 12.0 19.2 45.3 11267. CUFT/YR
 29. % PP1, 25. % DF3, 13. % DF1, 9. % SP1
 MORTALITY 7.6 7.6 9.5 11.0 16.7 45.3 4213. CUFT/YR
 28. % B01, 20. % PP1, 18. % B02, 14. % DF3

2034 TREES 2.2 2.7 2.8 7.6 11.0 45.3 269114. TREES
 43. % DF3, 20. % DF1, 13. % DF2, 11. % PP1
 VOLUME:
 TOTAL 7.6 11.0 16.7 19.2 32.3 45.3 2273556. CUFT
 23. % PP1, 20. % DF1, 20. % DF3, 11. % B02
 MERCH 8.7 11.0 17.0 19.2 37.2 45.3 1770461. CUFT
 24. % PP1, 22. % DF1, 21. % DF3, 10. % SP1
 MERCH 8.7 11.0 17.0 22.0 38.6 45.3 7447303. BDFT
 25. % DF1, 23. % DF3, 21. % PP1, 9. % SP1

ACCRETION 7.6 8.7 11.0 16.7 19.2 45.3 9013. CUFT/YR
 37. % PP1, 21. % DF3, 11. % SP1, 10. % DF1
 MORTALITY 7.6 7.6 9.5 11.0 16.7 45.3 4406. CUFT/YR
 27. % B01, 21. % PP1, 18. % B02, 14. % DF3

2039 TREES 2.4 2.8 2.9 7.6 11.0 45.3 263863. TREES
 43. % DF3, 20. % DF1, 13. % DF2, 11. % PP1
 VOLUME:
 TOTAL 7.6 11.0 16.7 19.2 32.3 45.3 2296592. CUFT
 23. % PP1, 20. % DF1, 20. % DF3, 11. % B02
 MERCH 9.5 11.0 17.0 19.2 37.2 45.3 1794426. CUFT
 24. % PP1, 22. % DF1, 21. % DF3, 11. % SP1
 MERCH 9.5 11.0 17.0 22.0 38.6 45.3 7702338. BDFT
 24. % DF1, 23. % DF3, 22. % PP1, 8. % SP1

FOREST VEGETATION SIMULATOR VERSION 2614 -- INLAND CALIFORNIA /
 SOUTHERN CASCADES RV: 20190307 06-06-2019 16:56:28

STAND ID: 050853grnd3010 MGMT ID: NONE Stand 050853grnd3010 at EID
 VegMP

STAND ATTRIBUTES (BASED ON STOCKABLE AREA)

INITIAL QUADRATIC TREES/A	TREES PER ACRE	BASAL AREA (SQFT/A)	TOP HEIGHT LARGEST 40/A (FT)	HEIGHT (FEET)	LIVE CROWN COMP RATIO FACTOR	PAST DBH GROWTH (INCHES)	BASAL AREA %TILE	TREES PER ACRE	STAND AGE

2014 (10 YRS)									
10	DF1	1.20	9.42	50	0.00	0.5	*****		
30	DF2	2.20	14.87	40	0.00	2.4	*****		
50	DF3	2.50	14.00	70	0.00	4.8	*****		
70	PP1	7.30	31.00	80	1.80	14.1	*****		
90	DF3	10.50	65.10	65	0.00	45.9	*****		
100	DF1	45.30	154.96	55	0.00	100.0	37.52		0
6.6	*****	*****	154.0	*****					RESI DUAL:
7.3	*****	*****	154.0	*****					
2019 ** (5 YRS)									
10	DF3	1.32	10.07	48	0.29	0.4	*****		
30	DF2	2.39	16.82	38	0.17	2.9	*****		
50	DF3	2.64	16.32	67	0.12	6.0	*****		
70	B01	7.60	41.98	38	0.00	12.6	*****		
90	B02	11.00	51.57	48	0.00	47.0	*****		
100	DF1	45.30	155.44	53	0.00	99.9	37.51		5
7.4	*****	*****	154.5	*****					
2024 (5 YRS)									
10	DF3	1.66	11.93	46	0.31	0.6	*****		
30	DF2	2.54	18.88	36	0.13	3.1	*****		
50	DF3	2.74	18.81	64	0.09	6.8	*****		
70	B01	7.60	43.30	36	0.00	12.0	*****		
90	B02	11.00	52.66	46	0.00	45.8	*****		
100	DF1	45.30	155.91	53	0.00	99.8	37.50		10
7.4	*****	*****	155.0	*****					
2029 (5 YRS)									
10	DF3	1.98	13.90	44	0.29	0.9	*****		
30	DF2	2.63	20.95	34	0.08	3.6	*****		
50	DF3	2.80	21.36	61	0.05	5.9	*****		
70	B01	7.60	44.40	34	0.00	12.4	*****		
90	B02	11.00	53.71	44	0.00	45.5	*****		
100	DF1	45.30	156.38	53	0.00	99.8	37.49		15
7.5	*****	*****	155.4	*****					
2034 (5 YRS)									
10	DF3	2.23	15.90	42	0.22	1.1	*****		
30	DF2	2.70	23.10	32	0.06	4.0	*****		
50	DF3	2.85	24.03	58	0.04	6.5	*****		

Webber. out. txt							
70	B01	7.60	45.49	32	0.00	11.7	*****
90	B02	11.00	54.72	42	0.00	45.5	*****
100	DF1	45.30	156.84	53	0.00	99.8	37.48

20

7.5 ***** 155.9 *****

2039 (5 YRS)

10	DF3	2.42	17.98	40	0.17	1.3	*****
30	DF2	2.76	25.28	30	0.05	2.3	*****
50	DF3	2.89	26.80	55	0.03	8.2	*****
70	B01	7.60	46.59	30	0.00	11.1	*****
90	B02	11.00	55.69	40	0.00	46.9	*****
100	DF1	45.30	157.29	53	0.00	99.8	37.47

25

7.6 ***** 156.3 *****

** NOTE: DUE TO HARVEST, COMPRESSION, OR REGENERATION ESTABLISHMENT, NEW SAMPLE TREES WERE SELECTED.

FOREST VEGETATION SIMULATOR VERSION 2614 -- INLAND CALIFORNIA / SOUTHERN CASCADES RV: 20190307 06-06-2019 16:56:28

STAND POLICIES: All, All_Stands, forest_type=371, Variant=CA_R5

STAND ID: 050853grnd3010 MGMT ID: NONE Stand 050853grnd3010 at EID VegMP

SUMMARY STATISTICS (PER ACRE OR STAND BASED ON TOTAL STAND AREA)

START OF SIMULATION PERIOD										REMOVALS					
AFTER TREATMENT															
GROWTH THIS PERIOD															
										MAI					
NO OF TOP RES PERIOD ACCRE MORT										TOTAL MERCH MERCH					
YEAR AGE TREES BA SDI CCF HT QMD										CU FT CU FT BD FT					
SDI CCF HT QMD YEARS PER YEAR										TRES CU FT CU FT BD FT BA					
										CU FT TYP ZT					
2014	0390113	*****	*****	*****	154	6.6	*****	*****	*****	99999	94303				
46866267878	*****	*****	*****	*****	154	7.3	*****	*****	*****	0.0	996	11			
2019	5284864	*****	*****	*****	154	7.4	*****	*****	*****	0	0	0			
0	*****	*****	*****	*****	154	7.4	*****	*****	*****	511603	3821	0.0	371	11	
2024	10279614	*****	*****	*****	155	7.4	*****	*****	*****	0	0	0			
0	*****	*****	*****	*****	155	7.4	*****	*****	*****	5	9667	4069	0.0	371	11
2029	15274363	*****	*****	*****	155	7.5	*****	*****	*****	0	0	0			
0	*****	*****	*****	*****	155	7.5	*****	*****	*****	511267	4213	0.0	371	11	
2034	20269114	*****	*****	*****	156	7.5	*****	*****	*****	0	0	0			
0	*****	*****	*****	*****	156	7.5	*****	*****	*****	5	9013	4406	0.0	371	11
2039	25263863	*****	*****	*****	156	7.6	*****	*****	*****	0	0	0			
0	*****	*****	*****	*****	156	7.6	*****	*****	*****	0	0	0	0.0	371	11

ACTIVITY SUMMARY

STAND ID= 050853grnd3010
VegMP

Webber.out.txt
MGMT ID= NONE

Stand 050853grnd3010 at EID

CYCLE	DATE	EXTENSION	KEYWORD	DATE	ACTIVITY DISPOSITION	PARAMETERS:	
1	2014						
	1.0000	BASE 0.0000	THINHT 0.0000	2014	DONE IN 2014 0.0000	0.0000	60.0000
	2.5190	FIRE 0.0000	FUELINIT 0.0000	2014	DONE IN 2014 0.0000	-1.0000	1.9360
	0.2184	0.0000	-1.0000	-1.0000		4.0000	0.1456
2	2019						
3	2024						
4	2029						
5	2034						

***** CARBON REPORT VERSION 1.0 *****

STAND CARBON REPORT (BASED ON STOCKABLE

AREA)

ALL VARIABLES ARE REPORTED IN METRIC TONS/HECTARE

STAND ID: 050853grnd3010

MGMT ID: NONE

Total	Aboveground		Bel owground	Forest				
	Total	Live Carbon		Stand	DDW	Floor	Shb/Hrb	
Stand	Removed	Released	Live	Dead	Dead			
YEAR	Total	Merch						
Carbon	Carbon	from Fire						
2014	42639.3	24683.6	12096.3	1082.8	246.1	1080.5	482.2	0.5
57627.8	1290.0		0.0					
2019	43304.1	25237.6	12065.9	976.1	589.5	1322.0	1232.0	0.5
59490.1	0.0		0.0					
2024	43818.4	25456.6	12024.3	896.4	792.5	2198.1	1293.4	0.5
61023.6	0.0		0.0					
2029	44223.7	25922.7	11964.2	836.0	886.6	3066.1	1342.4	0.5
62319.4	0.0		0.0					
2034	44711.4	26645.7	11891.8	789.2	909.7	3886.0	1397.5	0.5
63586.0	0.0		0.0					

***** CARBON REPORT VERSION 1.0 *****

HARVESTED PRODUCTS REPORT (BASED ON STOCKABLE

AREA)

ALL VARIABLES ARE REPORTED IN METRIC TONS/HECTARE

STAND ID: 050853grnd3010

Webber.out.txt
MGMT ID: NONE

YEAR	Prducts	Lndfi ll	Energy	Emi ssns	Merch Carbon	
					Stored	Removed
2014	410.5	0.0	103.3	94.8	410.5	608.6
2019	316.8	43.8	127.9	120.1	360.6	608.6
2024	257.9	70.6	143.2	136.9	328.5	608.6
2029	221.1	87.0	152.5	148.0	308.2	608.6
2034	196.3	97.7	158.4	156.2	294.0	608.6

APPENDIX B

Federal Biological Resources Assessment



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Query Criteria: Quad IS (Camino (3812066) OR Sly Park (3812065) OR Pollock Pines (3812075) OR Riverton (3812074) OR Garden Valley (3812077) OR Placerville (3812067) OR Fiddletown (3812057) OR Aukum (3812056) OR Omo Ranch (3812055) OR Caldor (3812054) OR Old Iron Mountain (3812064) OR Leek Spring Hill (3812063) OR Kyburz (3812073) OR Loon Lake (3812083) OR Robbs Peak (3812084) OR Devil Peak (3812085) OR Tunnel Hill (3812086) OR Slate Mtn. (3812076))
 AND (Federal Listing Status IS (Endangered OR Threatened OR Proposed Endangered OR Proposed Threatened OR Candidate OR All CNDDDB element occurrences OR Delisted) OR State Listing Status IS (Endangered OR Threatened OR Rare OR All CNDDDB element occurrences OR Delisted OR Candidate Endangered OR Candidate Threatened))

Ambystoma macrodactylum sigillatum		Element Code: AAAAA01085	
southern long-toed salamander			
Listing Status:	Federal: None	CNDDB Element Ranks:	Global: G5T4
	State: None		State: S3
	Other: CDFW_SSC-Species of Special Concern		
Habitat:	General: HIGH ELEVATION MEADOWS AND LAKES IN THE SIERRA NEVADA, CASCADE, AND KLAMATH MOUNTAINS.		
	Micro: AQUATIC LARVAE OCCUR IN PONDS AND LAKES. OUTSIDE OF BREEDING SEASON ADULTS ARE TERRESTRIAL AND ASSOCIATED WITH UNDERGROUND BURROWS OF MAMMALS AND MOIST AREAS UNDER LOGS AND ROCKS.		

Occurrence No.	383	Map Index:	A0966	EO Index:	102525	Element Last Seen:	2004-08-16
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:			2004-08-16
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:			2016-07-06

Quad Summary: Loon Lake (3812083)
County Summary: El Dorado

Lat/Long:	38.98591 / -120.27345	Accuracy:	80 meters
UTM:	Zone-10 N4318750 E736162	Elevation (ft):	7100
PLSS:	T13N, R15E, Sec. 11, SW (M)	Acres:	5.0

Location: UNNAMED POND 0.8 MILE ESE OF BROWN MOUNTAIN, DESOLATION WILDERNESS, EAST OF LOON LAKE, ELDORADO NATIONAL FOREST.

Detailed Location:
Ecological:
General: 7 LARVAE FOUND ON 16 AUG 2004.
Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	384	Map Index:	A0967	EO Index:	102526	Element Last Seen:	1996-08-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:	1996-08-XX		
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2016-07-06		

Quad Summary: Loon Lake (3812083)

County Summary: El Dorado

Lat/Long:	38.98565 / -120.26302	Accuracy:	80 meters
UTM:	Zone-10 N4318748 E737067	Elevation (ft):	7300
PLSS:	T13N, R15E, Sec. 11, SE (M)	Acres:	5.0

Location: UNNAMED POND 1.4 MILES EAST OF THE SUMMIT OF BROWN MOUNTAIN, DESOLATION WILDERNESS, ELDORADO NATIONAL FOREST.

Detailed Location:

Ecological:

General: LARVAE DETECTED IN AUGUST 1996.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	385	Map Index:	A0969	EO Index:	102528	Element Last Seen:	2004-08-16
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:	2004-08-16		
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2016-07-06		

Quad Summary: Loon Lake (3812083)

County Summary: El Dorado

Lat/Long:	38.98587 / -120.2545	Accuracy:	80 meters
UTM:	Zone-10 N4318795 E737804	Elevation (ft):	7200
PLSS:	T13N, R16E, Sec. 7, SW (M)	Acres:	5.0

Location: UNNAMED POND 1.8 MILES NORTH OF TELLS PEAK, SW OF ROCKBOUND LAKE, DESOLATION WILDERNESS, ELDORADO NATIONAL FOREST.

Detailed Location:

Ecological:

General: 2 LARVAE FOUND ON 16 AUGUST 2004.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	386	Map Index:	A0971	EO Index:	102530	Element Last Seen:	2004-08-16
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:	2004-08-16		
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2016-07-06		

Quad Summary: Loon Lake (3812083)

County Summary: El Dorado

Lat/Long:	38.9804 / -120.26545	Accuracy:	80 meters
UTM:	Zone-10 N4318159 E736874	Elevation (ft):	7500
PLSS:	T13N, R15E, Sec. 14, NE (M)	Acres:	5.0

Location: UNNAMED POND 0.8 MILE NNE OF SHADOW LAKE, DESOLATION WILDERNESS, SE OF LOON LAKE, ELDORADO NATIONAL FOREST.

Detailed Location:

Ecological:

General: 28 LARVAE FOUND ON 16 AUGUST 2004.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	388	Map Index: A0973	EO Index: 102532	Element Last Seen:	2003-06-24
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2003-06-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-06

Quad Summary: Robbs Peak (3812084)
County Summary: El Dorado

Lat/Long:	38.96641 / -120.38703	Accuracy:	80 meters
UTM:	Zone-10 N4316296 E726385	Elevation (ft):	5400
PLSS:	T13N, R14E, Sec. 15, SE (M)	Acres:	5.0

Location: POND 0.4 MILE EAST OF GERLE CREEK DIVIDE RESERVOIR DAM, ELDORADO NATIONAL FOREST.
Detailed Location: SOUTH OF USFS ROAD 13N23, 0.2 MILE WEST OF ITS INTERSECTION WITH WENTWORTH SPRINGS RD.
Ecological:
General: 8 LARVAE FOUND ON 24 JUNE 2003.
Owner/Manager: USFS-ELDORADO NF

Occurrence No.	389	Map Index: A0975	EO Index: 102534	Element Last Seen:	2005-07-10
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2005-07-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-07

Quad Summary: Loon Lake (3812083)
County Summary: El Dorado

Lat/Long:	38.9695 / -120.35354	Accuracy:	80 meters
UTM:	Zone-10 N4316723 E729277	Elevation (ft):	6000
PLSS:	T13N, R14E, Sec. 13, SE (M)	Acres:	5.0

Location: POND 0.8 MILE WEST OF CHIPMUNK BLUFF, SW OF LOON LAKE, ELDORADO NATIONAL FOREST.
Detailed Location: NORTH OF ICE HOUSE ROAD (ROAD 3), 1.0 ROAD MILE EAST OF ITS INTERSECTION WITH USFS ROAD 13N20.
Ecological:
General: DETECTED ON 11 JUN 2001, 11 MAY 2002, AND 10 JUL 2005.
Owner/Manager: USFS-ELDORADO NF

Occurrence No.	394	Map Index: A0980	EO Index: 102540	Element Last Seen:	1998-09-06
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1998-09-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-06

Quad Summary: Loon Lake (3812083)
County Summary: El Dorado

Lat/Long:	38.95469 / -120.26296	Accuracy:	1/10 mile
UTM:	Zone-10 N4315311 E737175	Elevation (ft):	8000
PLSS:	T13N, R15E, Sec. 23, SE (M)	Acres:	18.0

Location: FORNI LAKE, 0.6 MILE SW OF TELLS PEAK, DESOLATION WILDERNESS, ELDORADO NATIONAL FOREST.
Detailed Location:
Ecological:
General: DETECTED ON 6 SEPT 1998.
Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	395	Map Index:	A0981	EO Index:	102542	Element Last Seen:	2005-07-10
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2005-07-10	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-07-06	
Quad Summary:	Loon Lake (3812083)						
County Summary:	El Dorado						
Lat/Long:	38.96448 / -120.36677	Accuracy:	80 meters				
UTM:	Zone-10 N4316133 E728147	Elevation (ft):	5800				
PLSS:	T13N, R14E, Sec. 23, NE (M)	Acres:	5.0				
Location:	UNNAMED POND ABOUT 1.6 MILES WEST OF CHIPMUNK BLUFF, SW OF LOON LAKE, ELDORADO NATIONAL FOREST.						
Detailed Location:	0.1 MILE NW OF THE INTERSECTION OF ICE HOUSE ROAD (ROAD 3) AND USFS ROAD 13N20.						
Ecological:							
General:	DETECTED ON 11 JUNE 2001, 3 JULY 2001, 11 MAY 2002, AND 10 JULY 2005.						
Owner/Manager:	USFS-ELDORADO NF						

Occurrence No.	430	Map Index:	A1045	EO Index:	102607	Element Last Seen:	2008-08-13
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2008-08-13	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-07-11	
Quad Summary:	Kyburz (3812073)						
County Summary:	El Dorado						
Lat/Long:	38.8353 / -120.26259	Accuracy:	1/10 mile				
UTM:	Zone-10 N4302061 E737605	Elevation (ft):	6800				
PLSS:	T11N, R16E, Sec. 6, NW (M)	Acres:	18.0				
Location:	POND ABOUT 1.7 MILES SW OF WRIGHTS LAKE, WEST OF DESOLATION WILDERNESS, ELDORADO NATIONAL FOREST.						
Detailed Location:	0.4 MILE NW OF THE INTERSECTION OF ROAD 32 (USFS ROAD 11N37) AND ROAD 11N37F.						
Ecological:							
General:	LARVAE DETECTED ON 13 AUG 2008.						
Owner/Manager:	USFS-ELDORADO NF						

Occurrence No.	467	Map Index:	A1101	EO Index:	102669	Element Last Seen:	2007-06-28
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2007-06-28	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-07-13	
Quad Summary:	Leek Spring Hill (3812063)						
County Summary:	El Dorado						
Lat/Long:	38.68732 / -120.29859	Accuracy:	nonspecific area				
UTM:	Zone-10 N4285543 E734965	Elevation (ft):	5600				
PLSS:	T10N, R15E, Sec. 27, S (M)	Acres:	43.0				
Location:	ALONG ALDER CREEK FROM 3.0 TO 3.6 AIR MILES ESE OF THE SUMMIT OF IRON MOUNTAIN, ELDORADO NATIONAL FOREST.						
Detailed Location:							
Ecological:							
General:	LARVAE WERE FOUND IN THIS VICINITY ON 28 JUNE 2007.						
Owner/Manager:	USFS-ELDORADO NF, PVT						

<i>Rana draytonii</i>	Element Code: AAABH01022
------------------------------	---------------------------------



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



California red-legged frog			
Listing Status:	Federal: Threatened	CNDDDB Element Ranks:	Global: G2G3
	State: None		State: S2S3
	Other: CDFW_SSC-Species of Special Concern, IUCN_VU-Vulnerable		
Habitat:	General: LOWLANDS AND FOOTHILLS IN OR NEAR PERMANENT SOURCES OF DEEP WATER WITH DENSE, SHRUBBY OR EMERGENT RIPARIAN VEGETATION.		
	Micro: REQUIRES 11-20 WEEKS OF PERMANENT WATER FOR LARVAL DEVELOPMENT. MUST HAVE ACCESS TO ESTIVATION HABITAT.		

Occurrence No.	586	Map Index:	49277	EO Index:	49277	Element Last Seen:	2008-04-17
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2008-04-17	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2009-04-23	

Quad Summary: Sly Park (3812065)
County Summary: El Dorado

Lat/Long:	38.74489 / -120.59958	Accuracy:	80 meters
UTM:	Zone-10 N4291203 E708614	Elevation (ft):	3200
PLSS:	T10N, R12E, Sec. 01, SE (M)	Acres:	0.0

Location: SPIVEY POND, ON THE NORTH FORK OF WEBER CREEK, EL DORADO COUNTY.

Detailed Location: WEBER CREEK, FROM WEBER RESERVOIR UPSTREAM TO SNOWS ROAD AND 100 YARDS UPSTREAM OF SNOWS ROAD. WAS ALSO SURVEYED IN 1997; NO CRLF'S WERE FOUND, BUT 1 BULLFROG AND 1 YOY WESTERN POND TURTLE WERE FOUND.

Ecological: ONE OF TWO REMAINING POPULATIONS KNOWN FROM THE SIERRA NEVADAS. WEBER CREEK CONTAINS THE FOLLOWING FISH SPECIES: ONCORHYNCHUS MYKISS, LAVINIA SYMMETRICUS, CATOSTOMUS OCCIDENTALIS, & CENTRARCHIDS (IN WEBER RESERVOIR).

General: 6 ADULTS OBS (10-15 ESTIMATED) ON 2 JUL DURING SPOTLIGHT SURVEYS; 1 CRLF TADPOLE & NUMEROUS HYLA REGILLA TADPOLES OBS ON 3 JUL 1997. 6 ADS & 2 OF UNK AGE OBS ON 12 SEP 2002. 3 ADS & 5 JUVS OBS 26 SEP 2007. 5 ADS & 2 JUVS ON 17 APR 2008.

Owner/Manager: PVT

Occurrence No.	609	Map Index:	50057	EO Index:	50057	Element Last Seen:	2002-11-18
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2002-11-18	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2003-01-30	

Quad Summary: Caldor (3812054)
County Summary: El Dorado

Lat/Long:	38.53713 / -120.43970	Accuracy:	80 meters
UTM:	Zone-10 N4268521 E723155	Elevation (ft):	4200
PLSS:	T08N, R14E, Sec. 21, NW (M)	Acres:	0.0

Location: SOPIAGO CREEK, 0.8 MILE NNW OF COOKS STATION, NORTH OF HIGHWAY 88.

Detailed Location: FROGS WERE LOCATED AT THE SITE OF AN OLD DAM THAT HAD BURST.

Ecological: HABITAT CONSISTS OF WILLOW / ALDER RIPARIAN.

General: 3 ADULTS OBSERVED ON 18 NOV 2002.

Owner/Manager: PVT



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	1377	Map Index:	94865	EO Index:	95987	Element Last Seen:	1942-04-11
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:	1942-04-11	Record Last Updated:	2015-01-14
Occ. Type:	Natural/Native occurrence		Trend:	Unknown			
Quad Summary:	Fiddletown (3812057)						
County Summary:	Amador, El Dorado						
Lat/Long:	38.56409 / -120.84609		Accuracy:	1 mile			
UTM:	Zone-10 N4270604 E687659		Elevation (ft):	820			
PLSS:	T08N, R10E, Sec. 11 (M)		Acres:	0.0			
Location:	AREA NEAR MOUTH OF N FORK COSUMNES RIVER, JUST N OF CONFLUENCE W/ MIDDLE FORK COSUMNES RIV, BTWN ENTERPRISE & NASHVILLE.						
Detailed Location:	MAPPED AS BEST GUESS TO PROVIDED LOCATION DESCRIPTION OF "N OF PLYMOUTH, TRIB. N FORK OF CONSUMES RIVER." COULD NOT DETERMINE SPECIFIC TRIBUTARY BEING REFERENCED AND THEREFORE FEATURE WAS MAPPED TO THE AREA WHERE N FORK BEGINS.						
Ecological:							
General:	3 COLLECTED (CUMV #4220) ON 11 APR 1942 BY WRIGHT AND STORER.						
Owner/Manager:	UNKNOWN						

<i>Rana boylei</i>	Element Code: AAABH01050
foothill yellow-legged frog	
Listing Status:	Federal: None
	State: Candidate Threatened
	Other: BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_NT-Near Threatened, USFS_S-Sensitive
Habitat:	General: PARTLY-SHADED, SHALLOW STREAMS AND RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS.
	Micro: NEEDS AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING. NEEDS AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.
	CNDDDB Element Ranks: Global: G3
	State: S3

Occurrence No.	57	Map Index:	22203	EO Index:	19493	Element Last Seen:	2007-07-05
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:	2007-07-05	Record Last Updated:	2018-05-15
Occ. Type:	Natural/Native occurrence		Trend:	Unknown			
Quad Summary:	Sly Park (3812065)						
County Summary:	El Dorado						
Lat/Long:	38.69292 / -120.54849		Accuracy:	nonspecific area			
UTM:	Zone-10 N4285552 E713210		Elevation (ft):	3100			
PLSS:	T10N, R13E, Sec. 28, N (M)		Acres:	78.0			
Location:	CAMP CREEK, SOUTH OF FLEMING MEADOW, 2 MILES SOUTH OF JENKINSON LAKE, ELDORADO NATIONAL FOREST.						
Detailed Location:	INCLUDES FELLERS SITE ID #Y-853.						
Ecological:	SLOW-MOVING, CLEAR CREEK, ABOUT 8 INCHES IN DEPTH, WITH 2-4 INCH DIAMETER COBBLE/ROCK SUBSTRATE. SURROUNDED BY MONTANE RIPARIAN VEGETATION.						
General:	3 ADULTS ON 18 JUL 1992. 6 LARVAE ON 10 AUG 1994. 4 ADULTS & 2 SUBADULTS ON 21 JUL 1995. 4 ADULTS & 2 EGGMASSES ON 12 MAY 1997. 2 ADULTS & 8 LARVAE ON 25 AUG 1999. DETECTED IN 1998, 2000, 2001 & 2002. 2 ADULTS, 2 JUVENILES, 9 LARVAE IN 2007.						
Owner/Manager:	USFS-ELDORADO NF						



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	102	Map Index: 30217	EO Index: 18841	Element Last Seen:	1994-08-11
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1994-08-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-09-08
Quad Summary:	Sly Park (3812065), Camino (3812066)				
County Summary:	El Dorado				
Lat/Long:	38.65241 / -120.62567		Accuracy:	80 meters	
UTM:	Zone-10 N4280880 E706612		Elevation (ft):	2050	
PLSS:	T09N, R12E, Sec. 11, NW (M)		Acres:	0.0	
Location:	NORTH FORK OF COSUMNES RIVER, AT THE SWEENEY ROAD BRIDGE CROSSING, 2.5 MILES SE OF PLEASANT VALLEY.				
Detailed Location:	TADPOLES WERE FOUND UNDER THE BRIDGE.				
Ecological:	HABITAT CONSISTS OF SLOW-MOVING, SHALLOW WATER FLOWING OVER A SILTY SUBSTRATE; OVERSTORY CONSISTS OF RIPARIAN, DOMINATED BY ALDER AND MAPLE.				
General:	AN UNKNOWN NUMBER OF TADPOLES WERE OBSERVED ON 11 AUG 1994.				
Owner/Manager:	PVT				
Occurrence No.	103	Map Index: 30236	EO Index: 14412	Element Last Seen:	1994-08-23
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	1994-08-23
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-09-08
Quad Summary:	Aukum (3812056), Camino (3812066)				
County Summary:	El Dorado				
Lat/Long:	38.62524 / -120.70156		Accuracy:	80 meters	
UTM:	Zone-10 N4277696 E700083		Elevation (ft):	1690	
PLSS:	T09N, R12E, Sec. 19, NW (M)		Acres:	0.0	
Location:	MIDDLE FORK OF COSUMNES RIVER, AT THE MT AUKUM ROAD BRIDGE CROSSING, 1.5 MILES SSW OF SOMERSET.				
Detailed Location:					
Ecological:	STREAM CHANNEL IS DOMINATED BY SHEET BEDROCK, IN A SHALLOW CANYON WITH FAIRLY STEEP SLOPES. ALDER TREES ARE THE DOMINANT RIPARIAN VEGETATION.				
General:	10+ TADPOLES OBSERVED ON 23 AUG 1994.				
Owner/Manager:	UNKNOWN				
Occurrence No.	112	Map Index: 30394	EO Index: 4435	Element Last Seen:	1992-06-17
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1992-06-17
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-06-27
Quad Summary:	Leek Spring Hill (3812063)				
County Summary:	El Dorado				
Lat/Long:	38.68321 / -120.35502		Accuracy:	nonspecific area	
UTM:	Zone-10 N4284943 E730069		Elevation (ft):	5457	
PLSS:	T10N, R15E, Sec. 30, S (M)		Acres:	75.0	
Location:	ALONG CAMP CREEK NEAR CONFLUENCE WITH DARK CANYON, 7 AIR MILES SW OF KYBURZ, ELDORADO NATIONAL FOREST.				
Detailed Location:	1118 METERS OF CREEK SURVEYED. MAPPED ALONG CREEK WITHIN GIVEN T-R-S.				
Ecological:					
General:	1 ADULT OBSERVED ON 17 JUN 1992.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	253	Map Index: 43035	EO Index: 43035	Element Last Seen:	1993-06-22
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1993-06-22
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-08-13

Quad Summary: Old Iron Mountain (3812064)
County Summary: El Dorado

Lat/Long:	38.69811 / -120.44308	Accuracy:	nonspecific area
UTM:	Zone-10 N4286379 E722362	Elevation (ft):	4700
PLSS:	T10N, R14E, Sec. 29 (M)	Acres:	84.9

Location: SNOW CREEK, ABOUT AIR 6 MILES SE OF JENKINSON LAKE, ELDORADO NATIONAL FOREST.
Detailed Location: CANORUS LOCATION #4, DESCRIBED AS SNOW CREEK, IN T10N, R14E, SECTION 29, NEAR BIG PEBBLE CANYON RD, AT 4700 FOOT ELEVATION. SAMPLING DONE UPSTREAM AND DOWNSTREAM OF ORIGIN, BUT SPECIES ONLY FOUND UPSTREAM, 214 METERS FROM ORIGIN.
Ecological: NO INDICATION OF PAST LOGGING UPSTREAM. LOGGING OCCURRED DOWNSTREAM LESS THAN 5 YEARS AGO (AS OF 1993).
General: 1 ADULT OBSERVED ON 22 JUN 1993.
Owner/Manager: USFS-ELDORADO NF

Occurrence No.	390	Map Index: 53217	EO Index: 53217	Element Last Seen:	2013-07-09
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2013-07-09
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-20

Quad Summary: Riverton (3812074)
County Summary: El Dorado

Lat/Long:	38.77182 / -120.45516	Accuracy:	nonspecific area
UTM:	Zone-10 N4294531 E721084	Elevation (ft):	3191
PLSS:	T11N, R14E, Sec. 30, N (M)	Acres:	60.0

Location: SOUTH FORK AMERICAN RIVER, IN VICINITY OF BLACKBIRD AND MAPLE GROVE CAMPGROUNDS, NEAR RIVERTON, EAST OF POLLOCK PINES.
Detailed Location: AT GARCIA AND ASSOCIATES SITE 220.
Ecological: MAIN CHANNEL HABITAT CONSISTS OF A LOW-GRADIENT RIFFLE; SIDE POOL OF BOULDER / COBBLE BAR. EDGEWATER HABITAT FOUND ADJACENT TO THE MAIN CHANNEL RIFFLE.
General: DETECTED IN 1965. 2 FROGS OBSERVED IN 2002. 6 EGG MASSES, TADPOLES, 2 METAMORPHS, 1 JUVENILE IN 2004. 4 EGG MASSES IN 2005. 1 TADPOLE, 3 YOUNG-OF-YEAR & 1 ADULT IN 2007. NONE FOUND IN 2009, 2010 & 2011. 1 TADPOLE IN 2013.
Owner/Manager: USFS-ELDORADO NF, UNK



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	479	Map Index:	73910	EO Index:	74886	Element Last Seen:	2007-09-21
Occ. Rank:	Fair	Presence:	Presumed Extant	Site Last Seen:		2011-10-04	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-09-21	

Quad Summary: Pollock Pines (3812075), Slate Mtn. (3812076)

County Summary: El Dorado

Lat/Long:	38.79439 / -120.61967	Accuracy:	nonspecific area
UTM:	Zone-10 N4296652 E706725	Elevation (ft):	1860
PLSS:	T11N, R12E, Sec. 15, S (M)	Acres:	89.0

Location: SOUTH FORK AMERICAN RIVER NEAR EL DORADO POWER HOUSE, ELDORADO NATIONAL FOREST, NW OF POLLOCK PINES.

Detailed Location: MAPPED TO PROVIDED COORDINATES ALONG RIVER IN SECTIONS 15, 14, 22 AND 23. AT SITES 105R, 106R, SFA-3, AND SFA-5.

Ecological: HABITAT: BOULDER-DOMINATED, LOW GRADIENT RIVER SECTION WITH EXPOSED GRAVEL BANK, NUMEROUS CONNECTED & ISOLATED SIDE POOLS & SHALLOW EDGEWATER AREAS. EMERGENT VEG SEDGE-DOMINATED; SUBMERGED IS ALGAE; WILLOW, GRASS & SHRUB ALONG MARGINS.

General: SUBADULT DETECTED IN 1994. 100+ ADULTS, 30+ JUVENILES, ABOUT 100 LARVAE OBSERVED IN 2002. ADULTS, TADPOLES & EGGS IN 2003 & 2004. 5 ADULTS & 1 LARVAE IN 2005. 56 LARVAE & 8 YOUNG-OF-YEAR, 1 ADULT IN 2007. NONE FOUND IN 2011.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	480	Map Index:	73891	EO Index:	74887	Element Last Seen:	2011-09-14
Occ. Rank:	Excellent	Presence:	Presumed Extant	Site Last Seen:		2013-07-09	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-09-20	

Quad Summary: Pollock Pines (3812075)

County Summary: El Dorado

Lat/Long:	38.77942 / -120.55933	Accuracy:	nonspecific area
UTM:	Zone-10 N4295129 E712010	Elevation (ft):	2775
PLSS:	T11N, R13E, Sec. 19, E (M)	Acres:	41.0

Location: SOLDIER CREEK & SOUTH FORK AMERICAN RIVER AT CONFLUENCE, 2 MILES NE OF POLLOCK PINES, ELDORADO NATIONAL FOREST.

Detailed Location: MAPPED TO PROVIDED COORDINATES. SITES 124R & 125T.

Ecological: MODERATE GRADIENT CREEK WITH BRAIDED CHANNEL, BOULDERS, PLUNGE POOLS, AND RIVER WITH SIDE POOLS. LOW SHADING.

General: 4 ADULTS & 12 LARVAE FOUND IN 2002. 11 ADULTS, 5 JUVENILES, & 3 METAMORPHS IN 2004. 1 ADULT, 1 SUBADULT, 2 JUVENILES IN 2005. 2 ADULTS, 1 JUV, 19 YOY, 378 TADPOLES IN 2007. 1 JUVENILE IN 2009. NONE IN 2010. 2 ADULTS IN 2011. NONE IN 2013.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	481	Map Index: 73894	EO Index: 74892	Element Last Seen:	2011-10-04
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2013-07-09
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-25

Quad Summary: Pollock Pines (3812075)

County Summary: El Dorado

Lat/Long:	38.78451 / -120.57928	Accuracy:	nonspecific area
UTM:	Zone-10 N4295647 E710262	Elevation (ft):	2235
PLSS:	T11N, R13E, Sec. 19, W (M)	Acres:	74.0

Location: ABOUT 0.9 MI ESE OF SOUTH FORK AMERICAN RIVER & SILVER CREEK CROSSING, ABOUT 1.6 MI NORTH OF POLLOCK PINES.

Detailed Location: MAPPED TO PROVIDED COORDINATES. SITE 120R.

Ecological: STRETCH OF RIVER WITH BOULDER AND COBBLE. POINT BAR AND SEVERAL SIDEPOOLS CONTIGUOUS WITH MAIN CHANNEL.

General: ALL LIFE STAGES WERE FOUND HERE DURING VARIOUS SURVEYS CONDUCTED IN 2002, 2004, 2005, 2007, 2009, AND 2011. NONE WERE FOUND DURING 2010 AND 2013 SURVEYS.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	482	Map Index: 73898	EO Index: 74897	Element Last Seen:	2018-06-06
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2018-06-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2019-02-05

Quad Summary: Pollock Pines (3812075)

County Summary: El Dorado

Lat/Long:	38.78932 / -120.59081	Accuracy:	nonspecific area
UTM:	Zone-10 N4296155 E709247	Elevation (ft):	2057
PLSS:	T11N, R12E, Sec. 24, NW (M)	Acres:	85.0

Location: NEAR CONFLUENCE OF SILVER CREEK AND SOUTH FORK AMERICAN RIVER, ABOUT 2 MILES NORTH OF POLLOCK PINES.

Detailed Location: SITE 110R & 115T. MAPPED TO PROVIDED COORDINATES ALONG BOTH SILVER CREEK AND SOUTH FORK AMERICAN RIVER. FROGS FOUND BASKING ON EXPOSED BOULDER OR ON BANK, IN SIDEPOOLS, EDGEWATER AREAS OR BACKWATER POOLS.

Ecological: LOW-GRADIENT, WIDE RIVER (20-30 M) WITH BOULDER SUBSTRATE. ABUNDANT VEGETATION ON MARGIN AND IN SLOW WATER FLOW AREAS.

General: ALL LIFE STAGES WERE FOUND HERE DURING VARIOUS SURVEYS CONDUCTED IN 2002, 2003, 2004, 2005, AND 2007. NONE WERE FOUND DURING SURVEYS IN 2011. 1 JUVENILE OBSERVED ON 6 JUN 2018.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	484	Map Index:	73904	EO Index:	74902	Element Last Seen:	2002-08-30
Occ. Rank:	Excellent	Presence:	Presumed Extant	Site Last Seen:		2002-08-30	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-09-19	

Quad Summary: Pollock Pines (3812075)

County Summary: El Dorado

Lat/Long:	38.77466 / -120.54475	Accuracy:	specific area
UTM:	Zone-10 N4294634 E713290	Elevation (ft):	2680
PLSS:	T11N, R13E, Sec. 20, SE (M)	Acres:	13.0

Location: SOUTH FORK AMERICAN RIVER AT GRAYS CANYON, ABOUT 2.5 MILES NE OF POLLOCK PINES, ELDORADO NATIONAL FOREST.

Detailed Location: MAPPED TO PROVIDED COORDINATES. SITE 130R.

Ecological: SIDEPOOL AND SIDCHANNEL ALONG SOUTH FORK AMERICAN RIVER.

General: 2 ADULTS AND 2 LARVAE WERE FOUND ON 30 AUG 2002.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	485	Map Index:	73907	EO Index:	74904	Element Last Seen:	2007-06-15
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2011-10-04	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-09-20	

Quad Summary: Riverton (3812074)

County Summary: El Dorado

Lat/Long:	38.76395 / -120.47808	Accuracy:	nonspecific area
UTM:	Zone-10 N4293602 E719116	Elevation (ft):	3256
PLSS:	T11N, R13E, Sec. 36, N (M)	Acres:	58.0

Location: ALONG LOWER PORTION OF CREEK IN OGILBY CANYON, NEAR HWY 50, ABOUT 6 MILES E OF POLLOCK PINES, ELDORADO NATIONAL FOREST.

Detailed Location: MAPPED TO PROVIDED COORDINATES. SITES 207R & 210DT.

Ecological: HABITAT CONSISTED OF LOW-MED GRADIENT RIFFLE, RUNS & POOLS. SUBSTRATE PRIMARILY COBBLE WITH SOME BOULDER & SILT. VEGETATION ALONG CREEK MARGIN ABUNDANT, COMPOSED OF FORBS. EMERGENT VEG, UNDERCUT BANKS, AND ROOT WADS PROVIDED ABUNDANT COVER.

General: 3 ADULTS FOUND IN 2002, 3 ADULTS ON 15 JUN 2004, NONE FOUND IN 2005, 1 JUVENILE IN 2007, AND NONE FOUND IN 2011.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	486	Map Index: 73908	EO Index: 74906	Element Last Seen:	2013-07-09
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2013-07-09
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-21
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.77142 / -120.47876		Accuracy:	specific area	
UTM:	Zone-10 N4294430 E719035		Elevation (ft):	3100	
PLSS:	T11N, R13E, Sec. 25, SW (M)		Acres:	21.0	
Location:	SOUTH FORK AMERICAN RIVER, 0.3 TO 0.6 MILE UPSTREAM OF OGILBY CANYON, 6 MI E OF POLLOCK PINES, ELDORADO NATIONAL FOREST.				
Detailed Location:	MAPPED TO PROVIDED COORDINATES. SITE 213R.				
Ecological:	LOW GRADIENT RIVER WITH EMBEDDED ROCKY SUBSTRATE. MARGINS OF BOULDERS AND SEDGES WITH POOLS AND POINT BARS. HEAVY RECREATIONAL USE. WELL WORN TRAIL FROM HIGHWAY DOWN TO RIVER. LIGHT MINING.				
General:	ALL LIFE STAGES WERE FOUND HERE DURING VARIOUS SURVEYS CONDUCTED IN 2002, 2004, 2005, 2007, 2009, 2011, AND 2013, BUT NONE WERE FOUND IN 2010.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	493	Map Index: 73928	EO Index: 74922	Element Last Seen:	2017-08-31
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2017-08-31
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-24
Quad Summary:	Tunnel Hill (3812086), Michigan Bluff (3912016)				
County Summary:	El Dorado, Placer				
Lat/Long:	38.9931 / -120.72214		Accuracy:	nonspecific area	
UTM:	Zone-10 N4318479 E697274		Elevation (ft):	1187	
PLSS:	T13N, R11E, Sec. 11 (M)		Acres:	92.0	
Location:	RUBICON RIVER, 0.5 TO 1.9 MILES UPSTREAM OF ITS CONFLUENCE WITH MIDDLE FORK AMERICAN RIVER, ELDORADO NATIONAL FOREST.				
Detailed Location:					
Ecological:	MAINSTEM OF RUBICON RIVER. BOULDER, COBBLE AND BEDROCK DOMINANT SUBSTRATES. RIPARIAN VEGETATION PATCHY. CANOPY COVER TYPICALLY LESS THAN 25%. FLOWS REGULATED BY HELL HOLE RESERVOIR.				
General:	DETECTED IN 1997, 2001, 2002 & 2017. 24 OBSERVED IN 2005. 44 ADULTS, 21 JUVENILES, 101 YOUNG-OF-YEAR, 2,959 TADPOLES AND 25 EGG MASSES FOUND IN 2007. ADULTS, JUVENILES, EGG MASSES DETECTED IN 2009. 11 DETECTED IN 2016.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	494	Map Index:	73930	EO Index:	74930	Element Last Seen:	2015-08-10
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2015-08-10	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-09-21	
Quad Summary:	Tunnel Hill (3812086)						
County Summary:	El Dorado, Placer						
Lat/Long:	38.98333 / -120.68453	Accuracy:	nonspecific area				
UTM:	Zone-10 N4317477 E700559	Elevation (ft):	1607				
PLSS:	T13N, R12E, Sec. 18 (M)	Acres:	255.0				
Location:	NEAR THE CONFLUENCE OF LONG CANYON AND RUBICON RIVER, ELDORADO NATIONAL FOREST, 10 MILES NE OF GEORGETOWN.						
Detailed Location:	MAPPED ACCORDING TO SURVEY SITES ALONG RUBICON RIVER ABOVE AND BELOW LONG CANYON, AND ALSO ALONG THE LOWER SECTION OF LONG CANYON.						
Ecological:	BOULDER, COBBLE, AND BEDROCK ARE DOMINANT SUBSTRATES. PATCHY RIPARIAN VEGETATION WITH CANOPY COVER TYPICALLY LESS THAN 25%. LIGHT RECREATIONAL USE (FISHING).						
General:	DETECTIONS OF ALL LIFE STAGES, INCLUDING SEVERAL TO DOZENS OF ADULTS, AND UP TO THOUSANDS OF LARVAE, VARIOUSLY FOUND DURING SURVEYS IN 1993, 1996, 1998, 2005, 2007, 2009, 2013, 2014, AND 2015.						
Owner/Manager:	USFS-ELDORADO NF						
Occurrence No.	496	Map Index:	73933	EO Index:	74941	Element Last Seen:	2007-08-27
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2007-08-27	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-05-09	
Quad Summary:	Devil Peak (3812085)						
County Summary:	El Dorado, Placer						
Lat/Long:	38.91544 / -120.57261	Accuracy:	nonspecific area				
UTM:	Zone-10 N4310195 E710455	Elevation (ft):	2652				
PLSS:	T12N, R13E, Sec. 6, SW (M)	Acres:	59.0				
Location:	RUBICON RIVER, 1.1 TO 2.0 MILES UPSTREAM OF PIGEON ROOST CANYON, NE OF STUMPY MEADOWS LAKE, ELDORADO NATIONAL FOREST.						
Detailed Location:	MAPPED TO SURVEY REACH.						
Ecological:	MAINSTEM OF RUBICON RIVER. BOULDER, COBBLE AND BEDROCK DOMINANT SUBSTRATES. RIPARIAN VEGETATION PATCHY. CANOPY COVER TYPICALLY LESS THAN 25%. FLOWS REGULATED BY HELL HOLE RESERVOIR.						
General:	200 TADPOLES & 24 EGG MASSES OBSERVED ON 30 MAY 2007. 3 ADULTS, 1 SUBADULT & 4500 TADPOLES OBSERVED ON 14 JUN 2007. 3 ADULTS, 67 YOUNG-OF-YEAR & 25 TADPOLES ON 27 AUG 2007.						
Owner/Manager:	USFS-ELDORADO NF						



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	497	Map Index: 73934	EO Index: 74943	Element Last Seen:	2010-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-21
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado, Placer				
Lat/Long:	38.95512 / -120.48714		Accuracy:	nonspecific area	
UTM:	Zone-10 N4314800 E717745		Elevation (ft):	3330	
PLSS:	T13N, R13E, Sec. 23, SE (M)		Acres:	84.0	
Location:	RUBICON RIVER, NEAR CROSSING OF ELEVEN PINES ROAD, 6 AIR MILES NW OF UNION VALLEY RESERVOIR, ELDORADO NATIONAL FOREST.				
Detailed Location:	MAPPED FROM 0.5 MILE UPSTREAM TO 0.8 MILE DOWNSTREAM OF THE BRIDGE.				
Ecological:	BOULDER, COBBLE AND BEDROCK DOMINANT SUBSTRATES. RIPARIAN VEGETATION PATCHY. CANOPY COVER TYPICALLY LESS THAN 25%. FLOWS REGULATED BY HELL HOLE RESERVOIR.				
General:	3 ADULTS DETECTED IN AUG 1993. 2 ADULTS AND 4 EGG MASSES FOUND ON 29 MAY 2007. 400 LARVAE FOUND 13 JUN 2007. EGG MASSES DETECTED IN 2009-2010.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	1895	Map Index: A9260	EO Index: 111103	Element Last Seen:	2002-05-15
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2002-05-15
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-05-02
Quad Summary:	Tunnel Hill (3812086)				
County Summary:	Placer				
Lat/Long:	38.99844 / -120.68887		Accuracy:	80 meters	
UTM:	Zone-10 N4319145 E700140		Elevation (ft):	2774	
PLSS:	T13N, R12E, Sec. 7, NW (M)		Acres:	5.0	
Location:	DRAINAGE TO RUBICON RIVER, ABOUT 0.7 MILE EAST OF PENNSYLVANIA POINT, SOUTH OF RALSTON RIDGE, ELDORADO NATIONAL FOREST.				
Detailed Location:	MAPPED TO COORDINATES PROVIDED.				
Ecological:					
General:	1 CAUGHT AND RELEASED ON 15 MAY 2002.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	1897	Map Index: A9267	EO Index: 111110	Element Last Seen:	1996-10-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1996-10-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-05-03
Quad Summary:	Tunnel Hill (3812086)				
County Summary:	El Dorado, Placer				
Lat/Long:	38.95874 / -120.67301		Accuracy:	1/10 mile	
UTM:	Zone-10 N4314773 E701627		Elevation (ft):	1723	
PLSS:	T13N, R12E, Sec. 19, SE (M)		Acres:	18.0	
Location:	RUBICON RIVER, 1.0 MILE SE OF ITS CONFLUENCE WITH PILOT CREEK, 6 MILES EAST OF VOLCANOVILLE, ELDORADO NATIONAL FOREST.				
Detailed Location:					
Ecological:					
General:	1 ADULT DETECTED IN OCT 1996.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	1898	Map Index: A9269	EO Index: 111112	Element Last Seen:	2001-08-10
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2001-08-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-05-08
Quad Summary:	Tunnel Hill (3812086)				
County Summary:	El Dorado				
Lat/Long:	38.92204 / -120.72703		Accuracy:	1/10 mile	
UTM:	Zone-10 N4310581 E697047		Elevation (ft):	3036	
PLSS:	T12N, R11E, Sec. 3, NE (M)		Acres:	18.0	
Location:	0.6 MILE NE OF CONFLUENCE OF ROCK CREEK AND CANYON CREEK, 6 MILES EAST OF GEORGETOWN, ELDORADO NATIONAL FOREST.				
Detailed Location:	ALONG A TRIBUTARY TO CANYON CREEK.				
Ecological:					
General:	DETECTED ON 10 AUG 2001.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	1900	Map Index: A9276	EO Index: 111120	Element Last Seen:	2010-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-18
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado, Placer				
Lat/Long:	38.96996 / -120.4698		Accuracy:	80 meters	
UTM:	Zone-10 N4316488 E719202		Elevation (ft):	3553	
PLSS:	T13N, R13E, Sec. 13, SW (M)		Acres:	5.0	
Location:	CONFLUENCE OF MAINSTEM RUBICON RIVER WITH SOUTH FORK RUBICON RIVER, SW OF HELL HOLE RESERVOIR, ELDORADO NATIONAL FOREST.				
Detailed Location:					
Ecological:					
General:	EGG MASSES DETECTED IN 2009-2010.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	1903	Map Index: A9290	EO Index: 111134	Element Last Seen:	1958-07-18
Occ. Rank:	None		Presence: Extirpated	Site Last Seen:	2017-06-22
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-21
Quad Summary:	Placerville (3812067)				
County Summary:	El Dorado				
Lat/Long:	38.71676 / -120.83642		Accuracy:	2/5 mile	
UTM:	Zone-10 N4287568 E688103		Elevation (ft):	1530	
PLSS:	T10N, R10E, Sec. 14, SE (M)		Acres:	280.0	
Location:	WEBBER CREEK, IN VICINITY OF FORNI RD, SOUTHWEST PLACERVILLE.				
Detailed Location:	INCLUDES COLLECTIONS FROM "WEBBER CRK AT BRIDGE 0.6 MI S HWY 50, PLACERVILLE," AND "WEBBER CREEK, 2.2 MI WSW PLACERVILLE."				
Ecological:					
General:	4 COLLECTED ON 1 JUN 1952. COLLECTED ON 18 JUL 1958 (HOUSED AT CSU, SACRAMENTO). NONE DETECTED VIA EDNA ON 22 JUN 2017. ACCORDING TO JENNINGS AND LIND, RANA BOYLII IS EXTIRPATED AT THIS LOCATION.				
Owner/Manager:	PVT				
Occurrence No.	1904	Map Index: A9294	EO Index: 111139	Element Last Seen:	1961-03-31
Occ. Rank:	None		Presence: Extirpated	Site Last Seen:	2017-06-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-21
Quad Summary:	Placerville (3812067)				
County Summary:	El Dorado				
Lat/Long:	38.65573 / -120.85374		Accuracy:	1/5 mile	
UTM:	Zone-10 N4280759 E686756		Elevation (ft):	1640	
PLSS:	T09N, R10E, Sec. 11, NW (M)		Acres:	70.0	
Location:	HIGHWAY 49, 2 MILES SOUTH OF THE TOWN OF EL DORADO.				
Detailed Location:					
Ecological:					
General:	1 COLLECTED ON 31 MAR 1961. NONE DETECTED VIA EDNA ON 24 JUN 2017. ACCORDING TO JENNINGS, RANA BOYLII IS EXTIRPATED FROM THIS LOCATION.				
Owner/Manager:	UNKNOWN				
Occurrence No.	1905	Map Index: A9296	EO Index: 111141	Element Last Seen:	1942-10-19
Occ. Rank:	None		Presence: Extirpated	Site Last Seen:	1942-10-19
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-21
Quad Summary:	Placerville (3812067)				
County Summary:	El Dorado				
Lat/Long:	38.63492 / -120.81808		Accuracy:	2/5 mile	
UTM:	Zone-10 N4278523 E689914		Elevation (ft):	1000	
PLSS:	T09N, R10E, Sec. 13, E (M)		Acres:	280.0	
Location:	MARTINEZ CREEK AND SQUAW HOLLOW CREEK, ABOUT 4 MILES SOUTH OF THE TOWN OF EL DORADO.				
Detailed Location:					
Ecological:					
General:	COLLECTIONS WERE MADE IN THIS VICINITY ON 22 JUL 1942 AND 19 OCT 1942. ACCORDING TO JENNINGS, RANA BOYLII IS EXTIRPATED FROM VICINITY.				
Owner/Manager:	UNKNOWN				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	1907	Map Index: A9301	EO Index: 111145	Element Last Seen:	2003-08-20
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2017-09-22
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2019-02-13
Quad Summary:	Garden Valley (3812077)				
County Summary:	El Dorado				
Lat/Long:	38.78289 / -120.77901		Accuracy:	80 meters	
UTM:	Zone-10 N4295026 E692916		Elevation (ft):	1102	
PLSS:	T11N, R11E, Sec. 20, SW (M)		Acres:	5.0	
Location:	SOUTH FORK AMERICAN RIVER NEAR ROCK CREEK AND AMERICAN RIVER POWERHOUSE, NE OF CHILI BAR RESERVOIR.				
Detailed Location:	IN STREAM IN BURNED AREA BELOW SNAG AND DOWNSTREAM STRETCH FOR APPROXIMATELY 500 FEET. MAPPED ACCORDING TO COORDINATES PROVIDED.				
Ecological:	MAINLY LOW-GRADIENT RIFFLE WITH SOME POOL, RUN & POCKET-WATER. SUBSTRATE BOULDER BEDROCK, COBBLE & PEBBLE. AMPLE TERRESTRIAL COVER, MOSTLY DUFF AND LEAF LITTER AND MARGIN VEGETATION, MOSTLY GRASSES. BULLFROGS FOUND AT NEARBY SITES.				
General:	FROGS AND TADPOLES FOUND ON 20 AUG 2003. NONE DETECTED DURING RANA BOYLIИ VISUAL ENCOUNTER SURVEYS BETWEEN 12 JUL AND 22 SEP 2017.				
Owner/Manager:	BLM				
Occurrence No.	1909	Map Index: A9322	EO Index: 111166	Element Last Seen:	1996-06-13
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1996-06-13
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-05-10
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.79212 / -120.52317		Accuracy:	1/5 mile	
UTM:	Zone-10 N4296622 E715113		Elevation (ft):	4100	
PLSS:	T11N, R13E, Sec. 16, NE (M)		Acres:	70.0	
Location:	SOLDIER CREEK, 0.6 MILE EAST OF ITS CONFLUENCE WITH LITTLE SOLDIER CREEK, 4 MILES NE OF POLLOCK PINES.				
Detailed Location:					
Ecological:					
General:	ADULT AND POSSIBLE EGGMASS REMAINS DETECTED ON 13 JUN 1996.				
Owner/Manager:	UNKNOWN				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	1911	Map Index: A9332	EO Index: 111176	Element Last Seen:	1960-09-16
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2002-05-30
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-20
Quad Summary:	Kyburz (3812073), Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.76618 / -120.37846		Accuracy:	1/5 mile	
UTM:	Zone-10 N4294094 E727767		Elevation (ft):	3500	
PLSS:	T11N, R14E, Sec. 26, SE (M)		Acres:	70.0	
Location:	ALDER CREEK CAMPGROUND ALONG HIGHWAY 50, 5 MILES WEST OF KYBURZ, ELDORADO NATIONAL FOREST.				
Detailed Location:	SITE 250DT.				
Ecological:					
General:	6 COLLECTED ON 16 SEP 1960. NONE DETECTED IN THIS VICINITY ON 30 MAY 2002.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	1912	Map Index: A9338	EO Index: 111181	Element Last Seen:	1935-05-19
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2002-06-21
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-20
Quad Summary:	Kyburz (3812073)				
County Summary:	El Dorado				
Lat/Long:	38.76406 / -120.33819		Accuracy:	1/5 mile	
UTM:	Zone-10 N4293960 E731272		Elevation (ft):	3767	
PLSS:	T11N, R15E, Sec. 30, SE (M)		Acres:	70.0	
Location:	SOUTH FORK AMERICAN RIVER, ABOUT 2.5 MILES WEST OF KYBURZ, ELDORADO NATIONAL FOREST.				
Detailed Location:					
Ecological:					
General:	4 COLLECTED ON 19 MAY 1935. NONE DETECTED IN THIS VICINITY IN 2002.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	1915	Map Index: 68555	EO Index: 111189	Element Last Seen:	1916-07-31
Occ. Rank:	None		Presence: Extirpated	Site Last Seen:	2017-06-22
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-11-01
Quad Summary:	Sly Park (3812065), Camino (3812066), Pollock Pines (3812075), Slate Mtn. (3812076)				
County Summary:	El Dorado				
Lat/Long:	38.74770 / -120.61773		Accuracy:	1 mile	
UTM:	Zone-10 N4291474 E707028		Elevation (ft):		
PLSS:	T10N, R12E, Sec. 02 (M)		Acres:	0.0	
Location:	2 MILES WSW OF POLLOCK PINES.				
Detailed Location:	LOCATION DESCRIBED AS FYFFE. THE TOWN OF FYFFE WAS HISTORICALLY LOCATED ABOUT 2 MILES WSW OF THE CENTER OF TODAY'S POLLOCK PINES. 1997 THROUGH 2017 SAMPLING WAS PERFORMED ALONG NORTH FORK WEBER CREEK IN THIS VICINITY.				
Ecological:					
General:	2 ADULTS COLLECTED ON 31 JUL 1916. NONE DETECTED ALONG NORTH FORK WEBER CREEK DURING EITHER HERP SURVEYS IN 1997, 2000, 2001, 2002, 2003, OR VIA EDNA ON 22 JUN 2017. ACCORDING TO JENNINGS, RANA BOYLII IS EXTIRPATED FROM VICINITY.				
Owner/Manager:	UNKNOWN				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	1916	Map Index: A9345	EO Index: 111190	Element Last Seen:	2004-06-01
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2004-06-01
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-05-08

Quad Summary: Old Iron Mountain (3812064), Sly Park (3812065)
County Summary: El Dorado

Lat/Long:	38.73315 / -120.50112	Accuracy:	1/5 mile
UTM:	Zone-10 N4290130 E717208	Elevation (ft):	4000
PLSS:	T10N, R13E, Sec. 11, NE (M)	Acres:	70.0

Location: DRAINAGE TO SLY PARK CREEK, EAST OF JENKINSON LAKE, SE OF POLLOCK PINES, ELDORADO NATIONAL FOREST.
Detailed Location:
Ecological:
General: DETECTED ON 1 JUN 2004.
Owner/Manager: USFS-ELDORADO NF

Occurrence No.	1917	Map Index: A9366	EO Index: 111211	Element Last Seen:	2007-08-01
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2007-08-01
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-05-08

Quad Summary: Sly Park (3812065)
County Summary: El Dorado

Lat/Long:	38.70375 / -120.53457	Accuracy:	80 meters
UTM:	Zone-10 N4286787 E714388	Elevation (ft):	3330
PLSS:	T10N, R13E, Sec. 22, NW (M)	Acres:	5.0

Location: CAMP CREEK, 1.2 MILES WNW OF BALTIC PEAK, SW OF JENKINSON LAKE, ELDORADO NATIONAL FOREST.
Detailed Location:
Ecological:
General: 9 ADULTS, 2 JUVENILES, AND 7 LARVAE DETECTED ON 1 AUG 2007.
Owner/Manager: USFS-ELDORADO NF

Occurrence No.	1918	Map Index: A9370	EO Index: 111214	Element Last Seen:	1975-08-22
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1975-08-22
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-05-08

Quad Summary: Sly Park (3812065)
County Summary: El Dorado

Lat/Long:	38.66906 / -120.53308	Accuracy:	1/5 mile
UTM:	Zone-10 N4282941 E714621	Elevation (ft):	3215
PLSS:	T10N, R13E, Sec. 34, SW (M)	Acres:	70.0

Location: NORTH FORK COSUMNES RIVER AT CONSUMNES MINE ROAD, NEAR COSUMNES MINE, SOUTH OF JENKISON LAKE.
Detailed Location: LOCALITY DESCRIBED AS "COSUMNES RIV @ COSUMNES MINE RD, 10 MI SSW CAMINO." THIS SITE IS ACTUALLY SE OF CAMINO.
Ecological:
General: DETECTED ON 22 AUG 1975.
Owner/Manager: UNKNOWN



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	1919	Map Index: A9371	EO Index: 111216	Element Last Seen:	2001-05-23
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2001-05-23
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-05-08
Quad Summary:	Old Iron Mountain (3812064)				
County Summary:	El Dorado				
Lat/Long:	38.67963 / -120.42216		Accuracy:	80 meters	
UTM:	Zone-10 N4284380 E724240		Elevation (ft):	4600	
PLSS:	T10N, R14E, Sec. 33, NE (M)		Acres:	5.0	
Location:	CAMP CREEK, 2.0 MILES WEST OF BRANDON CANYON, 11 MILES SE OF POLLOCK PINES, ELDORADO NATIONAL FOREST.				
Detailed Location:					
Ecological:					
General:	4 DETECTED ON 23 MAY 2001.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	1920	Map Index: 95764	EO Index: 111217	Element Last Seen:	2003-05-29
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2003-05-29
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-05-08
Quad Summary:	Old Iron Mountain (3812064)				
County Summary:	El Dorado				
Lat/Long:	38.65138 / -120.40779		Accuracy:	2/5 mile	
UTM:	Zone-10 N4281280 E725577		Elevation (ft):	5000	
PLSS:	T09N, R14E, Sec. 10, NE (M)		Acres:	0.0	
Location:	ALONG NORTH FORK CONSUMNES RIVER NEAR CAPPS CROSSING CAMPGROUND, ELDORADO NATIONAL FOREST.				
Detailed Location:					
Ecological:					
General:	DETECTED ON 29 MAY 2003. DIFFERENT RECORDS INDICATE BOTH RANA SIERRAE AND R. BOYLII WERE FOUND HERE ON THIS DATE. WERE BOTH SPECIES FOUND, OR WAS THE IDENTIFICATION QUESTIONABLE? MORE INFORMATION IS NEEDED REGARDING THIS OCCURRENCE.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	1922	Map Index: 44948	EO Index: 111221	Element Last Seen:	1994-08-30
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1994-08-30
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-05-15
Quad Summary:	Omo Ranch (3812055)				
County Summary:	El Dorado				
Lat/Long:	38.58111 / -120.54868		Accuracy:	80 meters	
UTM:	Zone-10 N4273143 E713524		Elevation (ft):	3150	
PLSS:	T09N, R13E, Sec. 33, SW (M)		Acres:	0.0	
Location:	SOPIAGO CREEK NEAR APRIL FOOL MINE, ABOUT 1.2 MILES EAST OF OMO RANCH, ELDORADO NATIONAL FOREST.				
Detailed Location:					
Ecological:					
General:	1 ADULT DETECTED ON 30 AUG 1994.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	1923	Map Index: A9376	EO Index: 111222	Element Last Seen:	1941-03-28
Occ. Rank:	None		Presence: Extirpated	Site Last Seen:	1941-03-28
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-21
Quad Summary:	Fiddletown (3812057)				
County Summary:	El Dorado				
Lat/Long:	38.57866 / -120.84632		Accuracy:	1 mile	
UTM:	Zone-10 N4272221 E687602		Elevation (ft):	900	
PLSS:	T08N, R10E, Sec. 2 (M)		Acres:	1987.0	
Location:	VICINITY OF NASHVILLE.				
Detailed Location:					
Ecological:					
General:	2 COLLECTED ON 28 MAR 1941. ACCORDING TO JENNINGS, RANA BOYLII IS EXTIRPATED FROM THIS VICINITY.				
Owner/Manager:	UNKNOWN				
Occurrence No.	1924	Map Index: A9381	EO Index: 111227	Element Last Seen:	1973-05-12
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1973-05-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-05-08
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.79773 / -120.39676		Accuracy:	1/5 mile	
UTM:	Zone-10 N4297551 E726076		Elevation (ft):	5223	
PLSS:	T11N, R14E, Sec. 15, SW (M)		Acres:	70.0	
Location:	WINDMILLER RAVINE AT ICE HOUSE ROAD, SW OF ICE HOUSE RESERVOIR.				
Detailed Location:	LOCALITY DESCRIBED AS "WINDMILLER RAVINE CRK AT ICE HOUSE RD."				
Ecological:					
General:	COLLECTED ON 12 MAY 1973 (SPECIMEN HOUSED AT CSU, SACRAMENTO).				
Owner/Manager:	UNKNOWN				
Occurrence No.	1927	Map Index: A9424	EO Index: 111272	Element Last Seen:	1939-05-02
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1939-05-02
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-05-16
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.77373 / -120.39873		Accuracy:	1/5 mile	
UTM:	Zone-10 N4294881 E725981		Elevation (ft):	3426	
PLSS:	T11N, R14E, Sec. 27, N (M)		Acres:	70.0	
Location:	ALONG HIGHWAY 50 IN VICINITY OF WHITE HALL, 3 ROAD MILES EAST OF RIVERTON, NEAR SOUTH FORK AMERICAN RIVER.				
Detailed Location:	GIVEN LOCATION: "3 MI FROM RIVERTON ON RIVERTON-TAHOE RD," MOST LIKELY REFERS TO HWY 50 WHICH RUNS DIRECTLY FROM RIVERTON TO LAKE TAHOE AREA.				
Ecological:					
General:	ADULT COLLECTED ON 2 MAY 1939.				
Owner/Manager:	UNKNOWN				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	1952	Map Index: A9503	EO Index: 111353	Element Last Seen:	2018-10-02
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2018-10-02
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2019-02-12

Quad Summary: Pollock Pines (3812075)

County Summary: El Dorado

Lat/Long:	38.81097 / -120.58006	Accuracy:	specific area
UTM:	Zone-10 N4298582 E710116	Elevation (ft):	2361
PLSS:	T11N, R12E, Sec. 12, SE (M)	Acres:	29.0

Location: SILVER CREEK, 1.7 AIR MI N OF SOUTH FORK AMERICAN RIVER CONFLUENCE, 4 MI N OF POLLOCK PINES, ELDORADO NATIONAL FOREST.

Detailed Location: INCLUDES SITES C-3 & SFA-4.

Ecological: HABITAT DESCRIBED AS SEEP NEXT TO ACCESS ROAD, TRIBUTARY TO SILVER CREEK, STANDING WATER BEHIND AN ADIT & A CONNECTED SIDE POOL IN SLACKWATER/EDGEWATER HABITAT WITH NO RIPARIAN VEGETATION OVERHEAD.

General: ADULTS, SUBADULTS, LARVAE, AND EGG MASSES DETECTED IN 2003. TAPOLDS AND ADULTS FOUND IN 2004. 6 FROGS OBSERVED BETWEEN 8 JUN & 20 SEP 2016. 4 ADULTS FOUND IN 2017 & 1 ADULT, 1 JUVENILE, 3 LARVAE IN 2018.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	2257	Map Index: B0723	EO Index: 112591	Element Last Seen:	1850-XX-XX
Occ. Rank:	None		Presence: Extirpated	Site Last Seen:	2003-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-18

Quad Summary: Garden Valley (3812077), Coloma (3812078)

County Summary: El Dorado

Lat/Long:	38.8016 / -120.89057	Accuracy:	1 mile
UTM:	Zone-10 N4296873 E683177	Elevation (ft):	747
PLSS:	T11N, R10E, Sec. 17 (M)	Acres:	1987.0

Location: SOUTH FORK AMERICAN RIVER, IN VICINITY OF COLOMA, MARSHALL GOLD DISCOVERY STATE HISTORIC PARK.

Detailed Location: TYPE LOCALITY FOR RANA BOYLII. DEV05R0002 SITES CB-15, CB-16A, CB-16B.

Ecological: TADPOLE SPECIMENS NOW LOST BUT ACCORDING TO JEN87A0001, THEY WERE MOST LIKELY RANA BOYLII. SITE OF 1848 GOLD DISCOVERY, RIVER WAS IMPACTED BY PROSPECTING AND MINING ACITIVITES. MODERATE TO HIGH RECREATIONAL USE.

General: 1 JUVENILE AND TADPOLES COLLECTED IN 1850. NONE DETECTED DURING 1998 HERP AND 2003 FYLF SURVEYS. ACCORDING TO JENNINGS, RANA BOYLII IS EXTIRPATED AT THIS SITE.

Owner/Manager: DPR, UNKNOWN



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	2258	Map Index: B0774	EO Index: 112645	Element Last Seen: 2018-09-05
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 2018-09-05
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2018-09-24

Quad Summary: Caldor (3812054)

County Summary: Amador

Lat/Long:	38.5044 / -120.38533	Accuracy:	80 meters
UTM:	Zone-10 N4265022 E727998	Elevation (ft):	3900
PLSS:	T08N, R14E, Sec. 36, NW (M)	Acres:	5.0

Location: WEST PANTHER CREEK, 2.7 MILES NE OF NORTH FORK MOKELUMNE RIVER, ABOUT 10 MILES WEST OF SALT SPRINGS RESERVOIR.

Detailed Location: MAPPED TO COORDINATES PROVIDED.

Ecological: POOL-RIFLE STREAM WITH A VARIETY OF CANOPY CLOSURE. SURROUNDING LAND IS MANAGED TIMBERLAND.

General: 1 ADULT OBSERVED ON 5 SEP 2018.

Owner/Manager: PVT

Rana sierrae **Element Code:** AAABH01340

Sierra Nevada yellow-legged frog

Listing Status:	Federal: Endangered	CNDDB Element Ranks:	Global: G1
	State: Threatened		State: S1
	Other: CDFW_WL-Watch List, IUCN_EN-Endangered, USFS_S-Sensitive		

Habitat: **General:** ALWAYS ENCOUNTERED WITHIN A FEW FEET OF WATER. TADPOLES MAY REQUIRE 2 - 4 YRS TO COMPLETE THEIR AQUATIC DEVELOPMENT.

Micro:

Occurrence No.	1	Map Index: 33280	EO Index: 1766	Element Last Seen: 1995-09-14
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1995-09-14
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2014-08-26

Quad Summary: Leek Spring Hill (3812063)

County Summary: El Dorado

Lat/Long:	38.68272 / -120.34992	Accuracy:	nonspecific area
UTM:	Zone-10 N4284902 E730514	Elevation (ft):	5500
PLSS:	T10N, R15E, Sec. 30, S (M)	Acres:	64.0

Location: ALONG CAMP CREEK AND A TRIBUTARY NEAR PILLIKEN, E OF DARK CANYON, SW OF IRON MOUNTAIN RIDGE, ELDORADO NATIONAL FOREST.

Detailed Location:

Ecological: EPHEMERAL STREAM WITH SMALL POOLS WITHIN FOREST OF YELLOW PINE AND INCENSE CEDAR.

General: ONE OBSERVED 26 JUL 1994. ONE ADULT OBSERVED ON 6 JULY 1995 BELOW CULVERT IN S 1/2 SW 1/4 SECTION 29. ONE ADULT CAPTURED AND RELEASED 14 SEP 1995 ALONG CREEK 0.3 MI SW OF PILLIKEN.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	25	Map Index: 22215	EO Index: 7839	Element Last Seen:	1992-08-19
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1992-08-19
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1993-03-11

Quad Summary: Loon Lake (3812083)

County Summary: El Dorado

Lat/Long:	38.90349 / -120.31665	Accuracy:	specific area
UTM:	Zone-10 N4309490 E732689	Elevation (ft):	6000
PLSS:	T12N, R15E, Sec. 08, NE (M)	Acres:	6.5

Location: BASSI FORK, TRIBUTARY TO BIG SILVER CREEK, 1.5 MILES WEST OF TWO PEAKS, ELDORADO NATIONAL FOREST.

Detailed Location:

Ecological: HABITAT CONSISTS OF A MOUNTAIN STREAM.

General: ONE ADULT FROG OBSERVED ON 19 AUG 1992.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	26	Map Index: 22214	EO Index: 7840	Element Last Seen:	1992-08-31
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1992-08-31
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1993-03-11

Quad Summary: Loon Lake (3812083)

County Summary: El Dorado

Lat/Long:	38.92408 / -120.30418	Accuracy:	specific area
UTM:	Zone-10 N4311807 E733703	Elevation (ft):	6280
PLSS:	T13N, R15E, Sec. 33, SW (M)	Acres:	6.5

Location: TRIBUTARY TO BASSI FORK, TRIBUTARY TO BIG SILVER CREEK, 1.7 MILES NW OF TWO PEAKS, ELDORADO NATIONAL FOREST.

Detailed Location:

Ecological: HABITAT CONSISTS OF A MOUNTAIN STREAM, WHICH BECOMES INTERMITTENT IN LATE SUMMER.

General: ONE JUVENILE FROG OBSERVED ON 31 AUG 1992.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	52	Map Index: 43010	EO Index: 43010	Element Last Seen:	2009-09-03
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2009-09-03
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2014-09-19

Quad Summary: Leek Spring Hill (3812063)

County Summary: El Dorado

Lat/Long:	38.68895 / -120.30451	Accuracy:	nonspecific area
UTM:	Zone-10 N4285709 E734444	Elevation (ft):	5600
PLSS:	T10N, R15E, Sec. 27, W (M)	Acres:	34.0

Location: ALDER CREEK AT ALDER CREEK ROAD, 3 MILES ESE OF SUMMIT OF IRON MOUNTAIN, ELDORADO NATIONAL FOREST.

Detailed Location:

Ecological: SITE LOGGED <20 YEARS AGO (AS OF 1993).

General: 2 ADULTS OBSERVED 28 JUL 1993. 3 OBSERVED 24 JUN 2004. 1 ADULT OBSERVED 30 JUN 2006. 2 OBSERVED 10 JUL 2006. 3 OBSERVED 25 JUN 2007. UNKNOWN NUMBER FOUND ON 3 SEP 2009.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	211	Map Index: 56076	EO Index: 56092	Element Last Seen:	2013-08-26
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2013-08-26
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-03-24
Quad Summary:	Pyramid Peak (3812072), Kyburz (3812073)				
County Summary:	El Dorado				
Lat/Long:	38.76028 / -120.24759		Accuracy:	specific area	
UTM:	Zone-10 N4293774 E739157		Elevation (ft):	5300	
PLSS:	T10N, R16E, Sec. 06, W (M)		Acres:	85.0	
Location:	MIDDLE CREEK, FROM ABOUT 0.6 TO 1.5 MILE EAST OF JUNCTION WITH SILVER FORK AMERICAN RIVER, ELDORADO NATIONAL FOREST.				
Detailed Location:	MAPPED BY CNDDDB BASED ON GIS DATA PROVIDED BY CA DEPARTMENT OF FISH AND WILDLIFE, US FOREST SERVICE, AND G. FELLERS.				
Ecological:	HABITAT CONSISTED OF A LOW-GRADIENT SECTION OF CREEK CONTAINING RIFFLES AND SMALL BOULDER CASCADES/PLUNGE POOLS; AQUATIC SUBSTRATE PRIMARILY COBBLE/BOULDER. CREEK FULLY EXPOSED TO SUNLIGHT, WITH SHRUBS ALONG THE CREEK MARGIN.				
General:	DETECTED IN 1993, 1994, ANNUALLY 1998-2005, 2007, 2008, 2009, 2010, 2012 & 2013. POPULATIONS AS HIGH AS 17 ADULTS, 161 SUBADULTS, 5 METAMORPHS, 113 LARVAE & 26 EGG MASSES WERE OBSERVED IN CERTAIN YEARS. 1605 OBSERVED (UNKNOWN AGE) IN 2004.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	500	Map Index: 75507	EO Index: 76511	Element Last Seen:	1966-04-06
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1966-04-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-08
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.80338 / -120.39852		Accuracy:	1 mile	
UTM:	Zone-10 N4298173 E725905		Elevation (ft):		
PLSS:	T11N, R14E, Sec. 15 (M)		Acres:	0.0	
Location:	VICINITY OF ICEHOUSE ROAD ABOUT 5 ROAD MILES NE OF JUNCTION WITH HIGHWAY 50, ELDORADO NATIONAL FOREST.				
Detailed Location:	COLLECTION LOCALITY DESCRIBED AS "5 MI. NE RIVERTON ON ICEHOUSE RD." AT 6700 FT ELEV. ICEHOUSE ROAD DOESN'T REACH 6700'. HISTORIC MAPS SHOW ROAD WAS RE-ROUTED BETWEEN 1950 & 1973. MAPPED BY CNDDDB PRESUMING THE OLD, STEEPER ROUTE WAS TAKEN.				
Ecological:					
General:	COLLECTED BY P. FODOR ON 6 APR 1966.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	644	Map Index: 95698	EO Index: 96837	Element Last Seen: 1960-09-16
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 2004-08-31
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2015-03-24

Quad Summary: Pyramid Peak (3812072), Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.82016 / -120.23382	Accuracy:	1 mile
UTM:	Zone-10 N4300456 E740153	Elevation (ft):	
PLSS:	T11N, R16E, Sec. 08 (M)	Acres:	0.0

Location: 2 MILES SOUTH OF WRIGHTS LAKE, ELDORADO NATIONAL FOREST.

Detailed Location:

Ecological:

General: A SET OF COLLECTIONS WERE MADE IN THIS VICINITY ON 16 SEP 1960. NO R. SIERRAE WERE FOUND DURING A SURVEY OF DRY LAKE ON 31 AUG 2004.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	668	Map Index: 95760	EO Index: 96897	Element Last Seen: 2001-07-24
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 2001-07-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2015-03-27

Quad Summary: Tragedy Spring (3812062), Leek Spring Hill (3812063)

County Summary: El Dorado

Lat/Long:	38.63516 / -120.24693	Accuracy:	2/5 mile
UTM:	Zone-10 N4279888 E739632	Elevation (ft):	7200
PLSS:	T09N, R16E, Sec. 18, N (M)	Acres:	0.0

Location: LEEK SPRING VALLEY, NEAR HEAD OF NORTH FORK CONSUMNES RIVER, ELDORADO NATIONAL FOREST.

Detailed Location:

Ecological:

General: 40 TO 50 LARVAE WERE OBSERVED BY K. WHITENER ON 24 JUL 2001.

Owner/Manager: USFS-ELDORADO NF, DFG

Occurrence No.	669	Map Index: 95762	EO Index: 96899	Element Last Seen: 2004-06-01
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 2004-06-01
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2015-03-27

Quad Summary: Old Iron Mountain (3812064), Sly Park (3812065)

County Summary: El Dorado

Lat/Long:	38.73312 / -120.50094	Accuracy:	3/5 mile
UTM:	Zone-10 N4290126 E717223	Elevation (ft):	4000
PLSS:	T10N, R13E, Sec. 11 (M)	Acres:	0.0

Location: 3.5 MILES ENE OF SLY PARK DAM AT JENKINSON LAKE, EAST OF POLLOCK PINES.

Detailed Location: MAPPED BY CNDDDB CENTERED ON A POINT PROVIDED BY USFS NRIS DATABASE. THIS POINT FALLS NEAR THE CENTER OF THE EAST HALF OF SECTION 11 AND MAY BE BASED ON TRS INFO. THIS OCCURRENCE IS LOWER IN ELEVATION THAN MOST DETECTIONS AND MAY BE SUSPECT.

Ecological:

General: DETECTION WAS MADE IN THIS VICINITY BY FOOTHILL ASSOCIATES ON 1 JUN 2004.

Owner/Manager: USFS-ELDORADO NF, PVT



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	670	Map Index:	95764	EO Index:	96901	Element Last Seen:	2003-05-29
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2003-05-29	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2015-03-27	

Quad Summary: Old Iron Mountain (3812064)
County Summary: El Dorado

Lat/Long:	38.65138 / -120.40779	Accuracy:	2/5 mile
UTM:	Zone-10 N4281280 E725577	Elevation (ft):	5000
PLSS:	T09N, R14E, Sec. 10, NE (M)	Acres:	0.0

Location: ALONG NORTH FORK CONSUMNES RIVER NEAR CAPPS CROSSING CAMPGROUND, ELDORADO NATIONAL FOREST.

Detailed Location:

Ecological:

General: DETECTED ON 29 MAY 2003. DIFFERENT RECORDS INDICATE BOTH RANA SIERRAE AND R. BOYLII WERE FOUND HERE ON THIS DATE. WERE BOTH SPECIES FOUND, OR WAS THE IDENTIFICATION QUESTIONABLE? MORE INFORMATION IS NEEDED REGARDING THIS OCCURRENCE.

Owner/Manager: USFS-ELDORADO NF

Ardea alba		Element Code: ABNGA04040	
great egret			
Listing Status:	Federal: None	CNDDB Element Ranks:	Global: G5
	State: None		State: S4
	Other: CDF_S-Sensitive, IUCN_LC-Least Concern		
Habitat:	General: COLONIAL NESTER IN LARGE TREES.		
	Micro: ROOKERY SITES LOCATED NEAR MARSHES, TIDE-FLATS, IRRIGATED PASTURES, AND MARGINS OF RIVERS AND LAKES.		

Occurrence No.	34	Map Index:	68113	EO Index:	68254	Element Last Seen:	2006-06-06
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2006-06-06	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2007-02-13	

Quad Summary: Placerville (3812067)
County Summary: El Dorado

Lat/Long:	38.70655 / -120.86679	Accuracy:	80 meters
UTM:	Zone-10 N4286372 E685487	Elevation (ft):	1513
PLSS:	T10N, R10E, Sec. 22, SW (M)	Acres:	0.0

Location: INDIAN CREEK, 0.4 MILE NORTH OF HIGHWAY 50 AND 1.5 MILES WSW OF PERKS CORNER, 2 MILES NW OF EL DORADO.

Detailed Location: ALONG THE WEST SIDE OF A LAKE FORMED IN INDIAN CREEK.

Ecological: NESTING SUBSTRATE CONSISTS OF A PONDEROSA PINE GROWING NEAR A ~10-ACRE PRIVATE LAKE.

General: ~10 INDIVIDUALS OBSERVED NESTING ON 6 JUN 2006.

Owner/Manager: PVT



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



<i>Haliaeetus leucocephalus</i>		Element Code: ABNKC10010	
bald eagle			
Listing Status:	Federal: Delisted	CNDDDB Element Ranks:	Global: G5
	State: Endangered		State: S3
Other:	BLM_S-Sensitive, CDF_S-Sensitive, CDFW_FP-Fully Protected, IUCN_LC-Least Concern, USFS_S-Sensitive, USFWS_BCC-Birds of Conservation Concern		
Habitat:	General:	OCEAN SHORE, LAKE MARGINS, AND RIVERS FOR BOTH NESTING AND WINTERING. MOST NESTS WITHIN 1 MILE OF WATER.	
	Micro:	NESTS IN LARGE, OLD-GROWTH, OR DOMINANT LIVE TREE WITH OPEN BRANCHES, ESPECIALLY PONDEROSA PINE. ROOSTS COMMUNALLY IN WINTER.	

Occurrence No.	125	Map Index:	13640	EO Index:	11861	Element Last Seen:	1997-XX-XX
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:	1997-XX-XX	Record Last Updated:	1998-03-10
Occ. Type:	Natural/Native occurrence		Trend:	Stable			
Quad Summary:	Robbs Peak (3812084)						
County Summary:	El Dorado						
Lat/Long:	38.87691 / -120.38311			Accuracy:	1/10 mile		
UTM:	Zone-10 N4306372 E727010			Elevation (ft):	4960		
PLSS:	T12N, R14E, Sec. 23, NW (M)			Acres:	0.0		
Location:	UNION VALLEY RESERVOIR TERRITORY, ELDORADO NATIONAL FOREST.						
Detailed Location:	SOUTHERNMOST NESTING TERRITORY IN 1986. PREVIOUS NEST SITE LOCATED IN SECTION 14.						
Ecological:	NESTING TERRITORY; DISCOVERED IN 1986.						
General:	OCCUPIED AND SUCCESSFUL IN 1986 AND 1987. OCCUPIED (NOT SUCCESSFUL), 1988-91. 2 YOUNG FLEDGED IN 1992. 2 FLEDGED IN 1993. 2 YOUNG FLEDGED IN 1994. OCCUPIED (UNSUCCESSFUL), 1995-96. 2 FLEDGED IN 1997.						
Owner/Manager:	USFS-ELDORADO NF						



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



<i>Accipiter striatus</i>		Element Code: ABNKC12020	
sharp-shinned hawk			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G5
	State: None		State: S4
	Other: CDFW_WL-Watch List, IUCN_LC-Least Concern		
Habitat:	General: PONDEROSA PINE, BLACK OAK, RIPARIAN DECIDUOUS, MIXED CONIFER, AND JEFFREY PINE HABITATS. PREFERS RIPARIAN AREAS.		
	Micro: NORTH-FACING SLOPES WITH PLUCKING PERCHES ARE CRITICAL REQUIREMENTS. NESTS USUALLY WITHIN 275 FT OF WATER.		

Occurrence No.	10	Map Index:	56349	EO Index:	56365	Element Last Seen:	2004-08-04
Occ. Rank:	Fair	Presence:	Presumed Extant	Site Last Seen:		2004-08-04	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2004-08-10	

Quad Summary: Kyburz (3812073)
County Summary: El Dorado

Lat/Long:	38.84522 / -120.37355	Accuracy:	80 meters
UTM:	Zone-10 N4302879 E727940	Elevation (ft):	5000
PLSS:	T12N, R14E, Sec. 35, NE (M)	Acres:	0.0

Location: BETWEEN UNION VALLEY RESERVOIR & ICE HOUSE RESERVOIR.
Detailed Location: BORDERED ON ONE SIDE BY THE MAIN ROAD BETWEEN ICE HOUSE & UNION VALLEY RESERVOIRS & AN ABOVE GROUND PIPELINE 5-6 FT IN DIAMETER WITH THE ACCOMPANYING ROW.
Ecological: WHR TYPE = SMC4D. A NARROW BAND OF TREES ABOUT 100 YDS IN WIDTH. A PINE PLANTATION OF 12-15 FT HIGH TREES AND A MEADOW ARE TO THE NORTH.
General: NEST IS IN A FORK IN THE BRANCHES IN A 9 INCH DBH, DUAL-TOPPED LODGEPOLE PINE THAT IS 25 FT TALL. 1 ADULT & 2 JUVENILES OBSERVED 4 AUG 2004. OSPREY & COOPER'S HAWK OBSERVED IN THE AREA.
Owner/Manager: PVT

<i>Accipiter gentilis</i>		Element Code: ABNKC12060	
northern goshawk			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G5
	State: None		State: S3
	Other: BLM_S-Sensitive, CDF_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive		
Habitat:	General: 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.		



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	124	Map Index: 12797	EO Index: 26685	Element Last Seen:	1980-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1980-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1989-08-10
Quad Summary:	Slate Mtn. (3812076), Garden Valley (3812077)				
County Summary:	El Dorado				
Lat/Long:	38.81989 / -120.73799		Accuracy:	1 mile	
UTM:	Zone-10 N4299220 E696377		Elevation (ft):	2600	
PLSS:	T11N, R11E, Sec. 10, N (M)		Acres:	0.0	
Location:	ONE EYE CREEK.				
Detailed Location:					
Ecological:					
General:	EYRIE NUMBER ED004. ACTIVE IN SPRING 1980, BUT NO INFO ON ADULTS OR NUMBER OF YOUNG. (BROWN).				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	136	Map Index: 13243	EO Index: 26673	Element Last Seen:	1981-06-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1981-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1989-08-10
Quad Summary:	Devil Peak (3812085)				
County Summary:	Placer				
Lat/Long:	38.97489 / -120.58437		Accuracy:	1/5 mile	
UTM:	Zone-10 N4316766 E709260		Elevation (ft):	3800	
PLSS:	T13N, R12E, Sec. 13, SE (M)		Acres:	0.0	
Location:	WALLACE CANYON.				
Detailed Location:					
Ecological:					
General:	EYRIE NUMBER PC002. NEST ACTIVE IN 1981. (BROWN).				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	145	Map Index: 13244	EO Index: 26662	Element Last Seen:	1981-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1981-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1989-08-10
Quad Summary:	Devil Peak (3812085), Greek Store (3912015)				
County Summary:	Placer				
Lat/Long:	38.98878 / -120.58465		Accuracy:	1 mile	
UTM:	Zone-10 N4318307 E709195		Elevation (ft):	3800	
PLSS:	T13N, R12E, Sec. 12, SE (M)		Acres:	0.0	
Location:	WALLACE CANYON (TRS PUTS THIS IN VICINITY LONG CANYON. WALLACE CANYON IN SECTION 13).				
Detailed Location:					
Ecological:					
General:	EYRIE NUMBER ED005. ACTIVE NEST IN 1981. (BROWN).				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	270	Map Index:	13601	EO Index:	26527	Element Last Seen:	1984-08-31
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1984-08-31	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		1989-08-10	

Quad Summary: Leek Spring Hill (3812063), Old Iron Mountain (3812064)
County Summary: El Dorado

Lat/Long:	38.67628 / -120.39270	Accuracy:	1 mile
UTM:	Zone-10 N4284080 E726813	Elevation (ft):	5400
PLSS:	T10N, R14E, Sec. 35 (M)	Acres:	0.0

Location: BALTIC RIDGE.
Detailed Location:
Ecological:
General: EYRIE NUMBER ED006. ACTIVE NEST IN 1984. (HARTWELL).
Owner/Manager: USFS-ELDORADO NF

Occurrence No.	302	Map Index:	33576	EO Index:	30088	Element Last Seen:	1997-07-15
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		1999-06-28	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2000-02-16	

Quad Summary: Omo Ranch (3812055)
County Summary: El Dorado

Lat/Long:	38.53090 / -120.60475	Accuracy:	nonspecific area
UTM:	Zone-10 N4267441 E708785	Elevation (ft):	3000
PLSS:	T08N, R12E, Sec. 24 (M)	Acres:	627.7

Location: ALONG FARNHAM RIDGE, 1 MILE SE OF ROUND MOUNTAIN.
Detailed Location: 3 DIFFERENT NESTS OCCUPY THIS TERRITORY, ALL LOCATED IN DOUGLAS-FIRS (137- TO 164-FT TALL, 27- TO 38-INCH DBH), NESTS AGAINST THE BOLES.
Ecological: NEST STAND IS ADJACENT TO A DRAW & HAS OLD-GROWTH FEATURES (SMC 6). 95-100% CANOPY WITHIN 0.1 ACRE OF NEST TREE(S). 38-42% SLOPE; NNE ASPECT. 25-50% VISUAL BARRIER OF CLASS II DOGWOOD & ALDER. 25-50% GROUND COVER OF SHRUBS / FORBS.
General: TERRITORY #20 (94-ELD-3, 94-ELD-4, 96-ELD-5). 94-ELD-4: ACTIVE, 1993; INACTIVE, 1994-99. 94-ELD-3: 3 BRANCHING NEST/1 ADULT, 20 JUN 94; 1 FLEDGL, 26 JUN 95; 3 FLEDGED, 1997; INACTIVE, 1998-99. 96-ELD-5: 1 FLEDGED IN 1996; INACTIVE, 1999.
Owner/Manager: PVT



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	303	Map Index:	33577	EO Index:	30070	Element Last Seen:	1994-08-10
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:	1999-07-20	Record Last Updated:	2000-02-07
Occ. Type:	Natural/Native occurrence		Trend:	Unknown			
Quad Summary:	Devil Peak (3812085)						
County Summary:	El Dorado, Placer						
Lat/Long:	38.93407 / -120.60508		Accuracy:	nonspecific area			
UTM:	Zone-10 N4312187 E707585		Elevation (ft):	3900			
PLSS:	T13N, R12E, Sec. 35 (M)		Acres:	607.9			
Location:	NORTH OF STUMPY MEADOWS LAKE, IN THE VICINITY OF THE RUBICON RIVER.						
Detailed Location:	SITE CONSISTS OF TWO NEST SITES: #93-ELD-01 IS IN A CROOK WITH A NEW TOP OF A DOUGLAS-FIR (93-FT TALL, 14-INCH DBH), AND #93-ELD-02 IS OUT ON THE LIMB OF A DOUGLAS-FIR SNAG (107-FT TALL, 84-INCH DBH).						
Ecological:	NEST TREES ARE DOUGLAS-FIR. 97-99% CANOPY WITHIN 0.1 ACRE OF NEST TREES. 22-55% SLOPE; NORTH ASPECT. 1 NEST LOCATED IN NEARLY-PURE STAND OF DOUGLAS-FIR (WHR = SMC 4D); OTHER IN MIXED STAND OF DOUGLAS-FIR, INCENSE CEDAR, OAK (WHR = SMC 6).						
General:	TERRITORY #4 (93-ELD-1, 93-ELD-2). 93-ELD-2: ACTIVE IN 1992. 2 NESTLINGS OBS IN 1994. LIMB HOLDING NEST BROKE DURING WINTER 1994-95; INACTIVE 1995-99. 93-ELD-2: BIRD CALLING AT NEST ON 9 AUG 93; NESTLINGS OBS EARLIER. INACTIVE 1994-99.						
Owner/Manager:	PVT						

Occurrence No.	370	Map Index:	40176	EO Index:	35178	Element Last Seen:	1998-07-30
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:	1999-08-26	Record Last Updated:	2000-02-22
Occ. Type:	Natural/Native occurrence		Trend:	Unknown			
Quad Summary:	Kyburz (3812073)						
County Summary:	El Dorado						
Lat/Long:	38.75896 / -120.31068		Accuracy:	1/5 mile			
UTM:	Zone-10 N4293463 E733680		Elevation (ft):	4500			
PLSS:	T11N, R15E, Sec. 33, NW (M)		Acres:	0.0			
Location:	SOUTH SIDE OF THE AMERICAN RIVER, BETWEEN CARPENTER CREEK AND THE SILVER FORK, SW OF KYBURZ.						
Detailed Location:	NEST IS LOCATED IN A CROOK WITH A NEW TOP IN A WHITE FIR (125 FT TALL, 27 INCH DBH).						
Ecological:	NEST TREE IS DOUGLAS-FIR WITHIN MIXED CONIFER FOREST (WHR TYPE = SMC 6). 93% CANOPY WITHIN 0.1 ACRE OF NEST TREE. 34% SLOPE ON NORTH SLOPE ASPECT. FORBS IN NW COVERING 50% OF QUADRANT. NUMEROUS LARGE WOODY DEBRIS TO CLASS SIZE 4 TO NORTH.						
General:	TERRITORY #62 (98-ELD-6). ACTIVE NEST WITH 1 ADULT & 3 NESTLINGS DISCOVERED, 24 JUN 1998. 2 FLEDGLINGS CALLED IN, 30 JUL 1998. NEST PRESENT, BUT INACTIVE, 26 AUG 1999.						
Owner/Manager:	PVT						

<i>Strix nebulosa</i>	Element Code: ABNSB12040							
great gray owl								
Listing Status:	Federal:	None	CNDDB Element Ranks:	Global:	G5			
	State:	Endangered		State:	S1			
	Other:	CDF_S-Sensitive, IUCN_LC-Least Concern, USFS_S-Sensitive						
Habitat:	General:	RESIDENT OF MIXED CONIFER OR RED FIR FOREST HABITAT, IN OR ON EDGE OF MEADOWS.						
	Micro:	REQUIRES LARGE DIAMETER SNAGS IN A FOREST WITH HIGH CANOPY CLOSURE, WHICH PROVIDE A COOL SUB-CANOPY MICROCLIMATE.						



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	50	Map Index: 63534	EO Index: 63626	Element Last Seen:	2002-03-21
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2002-03-21
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2005-12-28

Quad Summary: Caldor (3812054)

County Summary: El Dorado

Lat/Long:	38.60353 / -120.49824	Accuracy:	1/10 mile
UTM:	Zone-10 N4275749 E717850	Elevation (ft):	4094
PLSS:	T09N, R13E, Sec. 25, SW (M)	Acres:	0.0

Location: SW EDGE OF LEONI MEADOW, ALONG CLEAR CREEK, ELDORADO NATIONAL FOREST.

Detailed Location: BIOS SITE ID = ELD0003.

Ecological:

General: NESTING KNOWN FROM THIS SITE WITH PAIR KNOWN TO BE ON AN ACTIVE NEST. BIRDS OBSERVED 21 MAR 2002.

Owner/Manager: USFS-ELDORADO NF

*** SENSITIVE ***

Occurrence No.	78	Map Index: 78260	EO Index: 79180	Element Last Seen:	2008-06-06
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	2008-06-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2014-02-07

Quad Summary: Aukum (3812056)

County Summary: El Dorado

Lat/Long:		Accuracy:	80 meters
UTM:		Elevation (ft):	2540
PLSS:		Acres:	0.0

Location: *SENSITIVE* LOCATION INFORMATION SUPPRESSED.

Detailed Location: PLEASE CONTACT THE CALIFORNIA NATURAL DIVERSITY DATABASE, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, FOR MORE INFORMATION: (916) 322-2493

Ecological: PINE & OAK SAVANNAH. RIPARIAN. PAST HISTORY OF FOREST MANAGEMENT. NEST TREE IS ON A BLACK OAK SNAG. OCCURRENCE SUPPRESSED DUE TO CONCERNS OF DISTURBANCE FROM AN INDIVIDUAL WHO BRINGS BIRDING GROUPS TO THE NEST SITES.

General:

Owner/Manager:



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



*** SENSITIVE ***

Occurrence No.	79	Map Index: 78261	EO Index: 79181	Element Last Seen:	2007-06-06
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	2007-06-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2014-02-07

Quad Summary: Aukum (3812056)

County Summary: El Dorado

Lat/Long:		Accuracy:	80 meters
UTM:		Elevation (ft):	2780
PLSS:		Acres:	0.0

Location: *SENSITIVE* LOCATION INFORMATION SUPPRESSED.

Detailed Location: PLEASE CONTACT THE CALIFORNIA NATURAL DIVERSITY DATABASE, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, FOR MORE INFORMATION: (916) 322-2493

Ecological: RIPARIAN OAK SAVANNAH. NEST WAS IN A BROKEN BRANCH ON A VALLEY OAK TREE. SITE IS PROTECTED. OCCURRENCE SUPPRESSED DUE TO CONCERNS OF DISTURBANCE FROM AN INDIVIDUAL WHO BRINGS BIRDING GROUPS TO THE NEST SITES.

General:

Owner/Manager:

*** SENSITIVE ***

Occurrence No.	80	Map Index: 78262	EO Index: 79182	Element Last Seen:	2006-06-06
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	2006-06-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2014-02-07

Quad Summary: Aukum (3812056)

County Summary: El Dorado

Lat/Long:		Accuracy:	80 meters
UTM:		Elevation (ft):	2800
PLSS:		Acres:	0.0

Location: *SENSITIVE* LOCATION INFORMATION SUPPRESSED.

Detailed Location: PLEASE CONTACT THE CALIFORNIA NATURAL DIVERSITY DATABASE, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, FOR MORE INFORMATION: (916) 322-2493

Ecological: SIERRA MIXED CONIFER WITH LAVACAP/MEADOW 0.3 MI SOUTH. NEST WAS IN A BLACK OAK SNAG. SITE IS PROTECTED. OCCURRENCE SUPPRESSED DUE TO CONCERNS OF DISTURBANCE FROM AN INDIVIDUAL WHO BRINGS BIRDING GROUPS TO THE NEST SITES.

General:

Owner/Manager:



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



*** SENSITIVE ***

Occurrence No.	81	Map Index:	78263	EO Index:	79183	Element Last Seen:	2008-06-01
Occ. Rank:	Excellent	Presence:	Presumed Extant	Site Last Seen:		2008-06-01	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2014-02-07	

Quad Summary: Omo Ranch (3812055)

County Summary: El Dorado

Lat/Long:		Accuracy:	80 meters
UTM:		Elevation (ft):	3190
PLSS:		Acres:	0.0

Location: *SENSITIVE* LOCATION INFORMATION SUPPRESSED.

Detailed Location: PLEASE CONTACT THE CALIFORNIA NATURAL DIVERSITY DATABASE, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, FOR MORE INFORMATION: (916) 322-2493

Ecological: SIERRA MIXED CONIFER & OAK SAVANNAH, WITH NO MEADOW OR MEADOW COMPLEX IN THE GENERAL AREA. AREA WAS MASTICATED IN 2006. OCCURRENCE SUPPRESSED DUE TO CONCERNS OF DISTURBANCE FROM AN INDIVIDUAL WHO BRINGS BIRDING GROUPS TO THE NEST SITES.

General:

Owner/Manager:

<i>Riparia riparia</i>	Element Code: ABPAU08010
bank swallow	
Listing Status:	Federal: None
	State: Threatened
	Other: BLM_S-Sensitive, IUCN_LC-Least Concern
Habitat:	General: COLONIAL NESTER; NESTS PRIMARILY IN RIPARIAN AND OTHER LOWLAND HABITATS WEST OF THE DESERT.
	Micro: REQUIRES VERTICAL BANKS/CLIFFS WITH FINE-TEXTURED/SANDY SOILS NEAR STREAMS, RIVERS, LAKES, OCEAN TO DIG NESTING HOLE.

Occurrence No.	295	Map Index:	78087	EO Index:	85439	Element Last Seen:	1873-XX-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1873-XX-XX	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2011-12-06	

Quad Summary: Camino (3812066), Placerville (3812067), Shingle Springs (3812068), Slate Mtn. (3812076), Garden Valley (3812077), Coloma (3812078)

County Summary: El Dorado

Lat/Long:	38.72948 / -120.79835	Accuracy:	5 miles
UTM:	Zone-10 N4289058 E691378	Elevation (ft):	2000
PLSS:	T10N, R11E, Sec. 07 (M)	Acres:	0.0

Location: NEAR PLACERVILLE.

Detailed Location: LOCATION STATED AS "NEAR PLACERVILLE."

Ecological: COLONY NESTED IN THE "ROUGH FACE OF A HIGH GRAVELLY HILL, THAT HAD BEEN WASHED DOWN FOR YEARS BY THE PROCESS OF HYDRAULICING FOR GOLD."

General: AN ALBINO BANK SWALLOW OBSERVED SOMETIME DURING 1873.

Owner/Manager: UNKNOWN



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



<i>Agelaius tricolor</i>		Element Code: ABPBXB0020	
tricolored blackbird			
Listing Status:	Federal: None	CNDDB Element Ranks:	Global: G2G3
	State: Threatened		State: S1S2
Other:	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_EN-Endangered, NABCI_RWL-Red Watch List, USFWS_BCC-Birds of Conservation Concern		
Habitat:	General: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.		
	Micro: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, AND FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.		

Occurrence No.	103	Map Index:	12562	EO Index:	24725	Element Last Seen:	19XX-XX-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:			2011-04-17
Occ. Type:	Natural/Native occurrence	Trend:	Decreasing	Record Last Updated:			2016-10-05

Quad Summary: Garden Valley (3812077), Coloma (3812078)
County Summary: El Dorado

Lat/Long:	38.7643 / -120.8695	Accuracy:	3/5 mile
UTM:	Zone-10 N4292777 E685104	Elevation (ft):	1664
PLSS:	T11N, R10E, Sec. 33 (M)	Acres:	776.0

Location: ONE MILE EAST ON GOLD HILL ROAD, NEAR THE INTERSECTION OF HIGHWAY 49, GOLDHILL.
Detailed Location: HISTORIC LOCATION DESCRIBED AS "1 MI ON GOLD HILL RD NEAR INTERSECTION W/ HWY 49." 2000 LOCATION DESCRIBED AS "GOLD HILL ROAD, APPROX. 0.25 MI WEST OF HWY 49." COLONY DATA STORED IN THE UCD TRBL PORTAL; SITE NAME WAS "GOLD HILL ROAD."
Ecological: NESTING SUBSTRATE WAS CATTAILS. HABITAT APPEARS TO BE SUITABLE BASED ON AERIAL IMAGERY. SEVERAL PONDS IN THE AREA.
General: COLONY OF APPROXIMATELY 75 OBSERVED AT AN UNKNOWN DATE (M. SIPPSMEYER); PRESUMED NESTING. SITE CHECKED ON 30 JUN 1992; HABITAT STILL PRESENT, BUT NO BIRDS OBSERVED. 0 BIRDS OBSERVED ON 23 APR 2000 AND 17 APR 2011.
Owner/Manager: UNKNOWN

<i>Myotis yumanensis</i>		Element Code: AMACC01020	
Yuma myotis			
Listing Status:	Federal: None	CNDDB Element Ranks:	Global: G5
	State: None		State: S4
Other:	BLM_S-Sensitive, IUCN_LC-Least Concern, WBWG_LM-Low-Medium Priority		
Habitat:	General: OPTIMAL HABITATS ARE OPEN FORESTS AND WOODLANDS WITH SOURCES OF WATER OVER WHICH TO FEED.		
	Micro: DISTRIBUTION IS CLOSELY TIED TO BODIES OF WATER. MATERNITY COLONIES IN CAVES, MINES, BUILDINGS OR CREVICES.		



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	13	Map Index: 52588	EO Index: 52588	Element Last Seen:	2002-07-18
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2002-07-18
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2007-03-14
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.85225 / -120.45716		Accuracy:	1/5 mile	
UTM:	Zone-10 N4303454 E720661		Elevation (ft):	4450	
PLSS:	T12N, R14E, Sec. 30, SW (M)		Acres:	0.0	
Location:	SILVER CREEK, VICINITY OF JUNCTION RESERVOIR INTAKE, 1.4 MILES SW OF UNION VALLEY RESERVOIR.				
Detailed Location:	THE AREA SURROUNDING THE TRAPPING LOCATION WAS FORAGED BY NUMEROUS OTHER BATS; INDIVIDUALS OBSERVED FEEDING OVER THE WATER SURFACE AND AROUND THE INTAKE STRUCTURE, BUT NO EVIDENCE OF ROOSTING IN THE INTAKE STRUCTURE.				
Ecological:	HABITAT CONSISTS OF A RIPARIAN-LINED RESERVOIR SHORE, WITH A ROAD CREATING A BREAK BETWEEN THE SHORELINE AND CLIFF. CLIFF CONTAINS SCATTERED SNAGS/SPARSE CONIFEROUS FOREST (NORTH FACING). 10% CANOPY COVER AT TRAPPING SITE; 3 CANOPY LAYERS.				
General:	1 ADULT & CAPTURED ON 18 JUL 2002.				
Owner/Manager:	SMUD				
Occurrence No.	14	Map Index: 52596	EO Index: 52596	Element Last Seen:	2002-07-19
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2002-07-19
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2007-03-14
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.81161 / -120.62202		Accuracy:	1/5 mile	
UTM:	Zone-10 N4298557 E706470		Elevation (ft):	2915	
PLSS:	T11N, R12E, Sec. 10, SE (M)		Acres:	0.0	
Location:	BRUSH CREEK DAM AND INTAKE STRUCTURE, NW END OF POHO RIDGE.				
Detailed Location:	THE AREA SURROUNDING THE TRAPPING LOCATION WAS FORAGED BY NUMEROUS OTHER BATS; INDIVIDUALS OBSERVED FEEDING OVER THE WATER SURFACE AND AROUND THE INTAKE STRUCTURE, BUT NO EVIDENCE OF ROOSTING IN THE INTAKE STRUCTURE.				
Ecological:	HABITAT CONSISTS OF MIXED CONIFEROUS FOREST (PINE, FIR) WITH A MANZANITA UNDERSTORY; DECIDUOUS TREES AND SHRUBS FOUND ALONG THE RESERVOIR SHORELINE. 10% CANOPY WITH TWO CANOPY LAYERS. CLIFFS PRESENT ALONG THE SOUTH SIDE OF THE ACCESS ROAD.				
General:	2 ADULTS CAPTURED ON 19 JUL 2002.				
Owner/Manager:	SMUD				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	15	Map Index: 52597	EO Index: 52597	Element Last Seen:	2002-07-20
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2002-07-20
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2007-03-15
Quad Summary:	Slate Mtn. (3812076)				
County Summary:	El Dorado				
Lat/Long:	38.77242 / -120.70089		Accuracy:	nonspecific area	
UTM:	Zone-10 N4294033 E699731		Elevation (ft):	1850	
PLSS:	T11N, R11E, Sec. 25, N (M)		Acres:	75.0	
Location:	SLAB CREEK DAM AND POWERHOUSE, BETWEEN WHITE OAK POINT AND IOWA HILL.				
Detailed Location:	NO EVIDENCE OF ROOSTING IN THE POWERHOUSE STRUCTURE.				
Ecological:	HABITAT CONSISTS OF OAK/BUCKEYE/MANZANITA ON THE POWERHOUSE SIDE, WHILE THE NORTH SIDE CONSISTS OF CONIFERS/MANZANITA, WITH ABUNDANT GRASSES. CLIFFS/SNAGS PRESENT ALONG WITH THE CONCRETE POWERHOUSE. 2% CANOPY COVER WITH TWO CANOPY LAYERS.				
General:	17 ADULTS AND 17 JUVENILES TRAPPED ON 20 JUL 2002 (KLA04U0001 REPORTS 14 MALES & 20 FEMALES TRAPPED). 1 MALE AND 1 FEMALE CAPTURED BY MIST NET AND RELEASED ON 14 AUG 2003.				
Owner/Manager:	SMUD				
Occurrence No.	16	Map Index: 52600	EO Index: 52600	Element Last Seen:	2004-07-25
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2004-07-25
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2007-07-02
Quad Summary:	Garden Valley (3812077)				
County Summary:	El Dorado				
Lat/Long:	38.76443 / -120.78804		Accuracy:	1/5 mile	
UTM:	Zone-10 N4292959 E692180		Elevation (ft):	993	
PLSS:	T11N, R11E, Sec. 31, NE (M)		Acres:	0.0	
Location:	AMERICAN RIVER SOUTHFORK, AT THE TOP END OF THE CHILI BAR RESERVOIR, IN THE VICINITY OF THE SMUD WHITE ROCK POWERHOUSE.				
Detailed Location:	NUMEROUS BRAZILIAN FREE-TAILED BATS & A FEW YUMA MYOTIS UTILIZED AREA BELOW POWERHOUSE DECK. CONCRETE POWERHOUSE & GENTRY CRANE PROVIDE ROOSTING AREA. LONG-TERM SITE USE INDICATED BY EXTENSIVE GUANO DEPOSITS & STAINING ON CONCRETE CEILING.				
Ecological:	HABITAT CONSISTS OF CANYON/CLIFF VEGETATION, DOMINATED BY OAKS AND BUCKEYES. ALONG THE RIVER, COTTONWOODS DOMINATE, WITH AN OCCASIONAL CONIFER. 12% CANOPY COVER NEAR TRAP SITE.				
General:	4 ADULTS, 6 JUVENILES, AND 2 OF UNKNOWN AGE TRAPPED ON 25 JUL 2002. 6 ADULTS AND 7 JUVENILES MIST-NETTED 21 JUL 2004. ALSO IN 2004, NIGHT ROOST LOCATED DOWNSTREAM OF MIST NETTING LOCATION.				
Owner/Manager:	SMUD				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	27	Map Index: 55193	EO Index: 55193	Element Last Seen:	2003-08-14
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2003-08-14
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2004-04-19

Quad Summary: Pollock Pines (3812075)

County Summary: El Dorado

Lat/Long:	38.81351 / -120.57988	Accuracy:	80 meters
UTM:	Zone-10 N4298865 E710124	Elevation (ft):	2760
PLSS:	T11N, R12E, Sec. 12, SE (M)	Acres:	0.0

Location: CAMINO TUNNEL ADIT, ALONG THE CAMINO DAM REACH OF SOUTH FORK SILVER CREEK, NW OF PLACERVILLE.

Detailed Location: ACCESS TO THE ADIT IS LOCATED AT THE END OF A ROAD, WHICH ALSO FORMS A LARGE BENCH (<50 YARDS WIDE X 100 YARDS LONG). PUBLIC ACCESS IS CONTROLLED VIA A LOCKED GATE AND FENCING THAT COVERS THE ADIT ENTRANCE.

Ecological: HABITAT CONSISTS OF OAK HARDWOOD FOREST INTERMIXED WITH A FEW CONIFERS, ON A SE-FACING SLOPE, WHICH GENERALLY EXCEEDS 45-DEGREES; A STEEP DRAINAGE IS LOCATED WEST OF THE ADIT.

General: 2 ADULTS CAPTURED ON 14 AUG 2003; BATS WERE FLYING INTO AND OUT OF THE ADIT, BUT DID NOT APPEAR TO BE ROOSTING.

Owner/Manager: SMUD

<i>Myotis thysanodes</i>		Element Code: AMACC01090
fringed myotis		
Listing Status:	Federal: None	CNDDDB Element Ranks: Global: G4
	State: None	State: S3
	Other: BLM_S-Sensitive, IUCN_LC-Least Concern, USFS_S-Sensitive, WBWG_H-High Priority	
Habitat:	General: IN A WIDE VARIETY OF HABITATS, OPTIMAL HABITATS ARE PINYON-JUNIPER, VALLEY FOOTHILL HARDWOOD & HARDWOOD-CONIFER.	
	Micro: USES CAVES, MINES, BUILDINGS OR CREVICES FOR MATERNITY COLONIES AND ROOSTS.	

Occurrence No.	17	Map Index: 52588	EO Index: 62697	Element Last Seen:	2002-07-18
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2002-07-18
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2007-03-14

Quad Summary: Riverton (3812074)

County Summary: El Dorado

Lat/Long:	38.85225 / -120.45716	Accuracy:	1/5 mile
UTM:	Zone-10 N4303454 E720661	Elevation (ft):	4450
PLSS:	T12N, R14E, Sec. 30, SW (M)	Acres:	0.0

Location: SILVER CREEK, VICINITY OF JUNCTION RESERVOIR INTAKE, 1.4 MILES SW OF UNION VALLEY RESERVOIR.

Detailed Location: THE AREA SURROUNDING THE TRAPPING LOCATION WAS FORAGED BY NUMEROUS OTHER BATS; INDIVIDUALS OBSERVED FEEDING OVER THE WATER SURFACE AND AROUND THE INTAKE STRUCTURE, BUT NO EVIDENCE OF ROOSTING IN THE INTAKE STRUCTURE.

Ecological: HABITAT CONSISTS OF A RIPARIAN-LINED RESERVOIR SHORE, WITH A ROAD CREATING A BREAK BETWEEN THE SHORELINE AND CLIFF. CLIFF CONTAINS SCATTERED SNAGS/SPARSE CONIFEROUS FOREST (NORTH FACING). 10% CANOPY COVER AT TRAPPING SITE; 3 CANOPY LAYERS.

General: 1 ADULT & CAPTURED 18 JUL 2002.

Owner/Manager: SMUD



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	58	Map Index: 68603	EO Index: 68987	Element Last Seen:	2001-06-23
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2001-06-23
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2007-03-20

Quad Summary: Sly Park (3812065)

County Summary: El Dorado

Lat/Long:	38.70267 / -120.54568	Accuracy:	nonspecific area
UTM:	Zone-10 N4286642 E713424	Elevation (ft):	3600
PLSS:	T10N, R13E, Sec. 21 (M)	Acres:	610.0

Location: EL DORADO NATIONAL FOREST, JUST EAST OF FLEMING MEADOW.
Detailed Location: SITE L2 C. MAPPED IN SECTION 21 ACCORDING TO T-R-S DATA PROVIDED BY SOURCE.
Ecological: OLD ROAD.
General: SITE SURVEYED 13 & 22 MAY AND 23 JUN 2001. 1 FEMALE CAPTURED ON 13 MAY AND 1 ON 23 JUN 2001.
Owner/Manager: USFS-ELDORADO NF

Occurrence No.	59	Map Index: 68605	EO Index: 68990	Element Last Seen:	2001-08-29
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2001-08-29
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2007-03-23

Quad Summary: Caldor (3812054)

County Summary: El Dorado

Lat/Long:	38.59808 / -120.49078	Accuracy:	nonspecific area
UTM:	Zone-10 N4275163 E718516	Elevation (ft):	4300
PLSS:	T09N, R13E, Sec. 25 (M)	Acres:	1355.0

Location: EL DORADO NATIONAL FOREST, SOUTH OF PLUMMER RIDGE, EAST & SOUTHEAST OF LEONI MEADOW.
Detailed Location: SITES L4 A AND L6 C.MAPPED IN SECTIONS 25 & 36 ACCORDING TO T-R-S AND UTM DATA PROVIDED BY SOURCE.
Ecological: OLD ROAD AND SMALL STREAM.
General: L4 A SURVEYED 24 MAY, 6 JUN, 11 JUL & 29 AUG 2001. 1 FEMALE OBSERVED ON 23 MAY IN SEC 36. L6 C SURVEYED 23 MAY, 5 JUN 12 JUL & 27 AUG. 1 FEMALE OBSERVED 29 AUG 2001 IN SEC 25. (CONFLICT BETWEEN DATES GIVEN FOR SURVEYS & OBSERVATIONS).
Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



<i>Myotis volans</i>		Element Code: AMACC01110	
long-legged myotis			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G5
	State: None		State: S3
	Other: IUCN_LC-Least Concern, WBWG_H-High Priority		
Habitat:	General: MOST COMMON IN WOODLAND AND FOREST HABITATS ABOVE 4000 FT. TREES ARE IMPORTANT DAY ROOSTS; CAVES AND MINES ARE NIGHT ROOSTS.		
	Micro: NURSERY COLONIES USUALLY UNDER BARK OR IN HOLLOW TREES, BUT OCCASIONALLY IN CREVICES OR BUILDINGS.		

Occurrence No.	93	Map Index: 68615	EO Index: 69001	Element Last Seen:	2001-09-01
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	2001-09-01
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2007-03-21
Quad Summary:	Sly Park (3812065)				
County Summary:	El Dorado				
Lat/Long:	38.68752 / -120.54668		Accuracy:	nonspecific area	
UTM:	Zone-10 N4284958 E713382		Elevation (ft):	3600	
PLSS:	T10N, R13E, Sec. 28 (M)		Acres:	625.0	
Location:	EL DORADO NATIONAL FOREST, EAST OF HAPPY VALLEY, WEST OF MARSHALL MINE.				
Detailed Location:	PLOT ID L2 B. MAPPED IN SECTION 28 ACCORDING TO T-R-S DATA PROVIDED BY SOURCE.				
Ecological:	MEDIUM STREAM.				
General:	SITE SURVEYED 12 & 23 MAY, 23 JUN, 23 AUG & 1 SEP 2001. 1 MALE OBSERVED ON 1 SEP 2001.				
Owner/Manager:	USFS-ELDORADO NF				

Occurrence No.	94	Map Index: 68616	EO Index: 69002	Element Last Seen:	2001-05-10
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2001-05-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2007-03-21
Quad Summary:	Omo Ranch (3812055), Sly Park (3812065)				
County Summary:	El Dorado				
Lat/Long:	38.62167 / -120.56472		Accuracy:	nonspecific area	
UTM:	Zone-10 N4277608 E712007		Elevation (ft):	3480	
PLSS:	T09N, R13E, Sec. 20 (M)		Acres:	625.0	
Location:	EL DORADO NATIONAL FOREST, NORTH OF HENRYS DIGGINGS, SOUTH OF STRING CANYON. VICINITY OF STEELY FORK COSUMNES RIVER.				
Detailed Location:	PLOT ID L5 C. MAPPED IN SECTION 20 ACCORDING TO T-R-S DATA PROVIDED BY SOURCE.				
Ecological:	MEDIUM STREAM.				
General:	SITE SURVEYED 10 & 26 MAY, 3 JUL, 21 AUG & 2 SEP 2001. 2 FEMALES OBSERVED ON 10 MAY 2001.				
Owner/Manager:	USFS-ELDORADO NF				

<i>Lasionycteris noctivagans</i>		Element Code: AMACC02010	
silver-haired bat			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G5
	State: None		State: S3S4
	Other: IUCN_LC-Least Concern, WBWG_M-Medium Priority		
Habitat:	General: PRIMARILY A COASTAL AND MONTANE FOREST DWELLER, FEEDING OVER STREAMS, PONDS & OPEN BRUSHY AREAS.		
	Micro:		



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



ROOSTS IN HOLLOW TREES, BENEATH EXFOLIATING BARK, ABANDONED WOODPECKER HOLES, AND RARELY UNDER ROCKS. NEEDS DRINKING WATER.

Occurrence No.	1	Map Index:	52600	EO Index:	60994	Element Last Seen:	2004-07-23
Occ. Rank:	Excellent	Presence:	Presumed Extant	Site Last Seen:		2004-07-23	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2005-04-14	
Quad Summary:	Garden Valley (3812077)						
County Summary:	El Dorado						
Lat/Long:	38.76443 / -120.78804		Accuracy:	1/5 mile			
UTM:	Zone-10 N4292959 E692180		Elevation (ft):	1000			
PLSS:	T11N, R11E, Sec. 31, NE (M)		Acres:	0.0			
Location:	SOUTH FORK OF THE AMERICAN RIVER, IN THE VICINITY OF THE WHITE ROCK POWERHOUSE.						
Detailed Location:							
Ecological:	SCRUBBY WILLOWS WITHIN BRAIDED A CHANNEL OF THE AMERICAN RIVER; SURROUNDED BY STEEP CANYONS WITH SCRUB AND MIXED OAK CONIFER.						
General:	ONE ADULT CAPTURED VIA MIST NETTING 21 JUL 2004, TWO JUVENILES CAPTURED VIA MIST NETTING 23 JUL 2004.						
Owner/Manager:	SMUD						

Occurrence No.	33	Map Index:	68555	EO Index:	68910	Element Last Seen:	1916-07-29
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1916-07-29	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2007-03-19	
Quad Summary:	Sly Park (3812065), Camino (3812066), Pollock Pines (3812075), Slate Mtn. (3812076)						
County Summary:	El Dorado						
Lat/Long:	38.74770 / -120.61773		Accuracy:	1 mile			
UTM:	Zone-10 N4291474 E707028		Elevation (ft):				
PLSS:	T10N, R12E, Sec. 02 (M)		Acres:	0.0			
Location:	2 MILES WSW OF POLLOCK PINES.						
Detailed Location:	LOCATION DESCRIBED AS FYFFE. THE TOWN OF FYFFE WAS HISTORICALLY LOCATED ABOUT 2 MILES WSW OF THE CENTER OF TODAY'S POLLOCK PINES.						
Ecological:							
General:	9 FEMALE & 2 MALE SPECIMENS (MVZ #24207-24215, 24303-24304) COLLECTED AT "FYFFE" BY JOSEPH S. DIXON ON 19-21, 23, 26 & 29 JUL 1916.						
Owner/Manager:	UNKNOWN						



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	34	Map Index: 68487	EO Index: 68911	Element Last Seen: 1979-06-10
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1979-06-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2007-03-19

Quad Summary: Caldor (3812054), Old Iron Mountain (3812064)
County Summary: El Dorado

Lat/Long:	38.63618 / -120.47187	Accuracy:	1 mile
UTM:	Zone-10 N4279437 E720047	Elevation (ft):	
PLSS:	T09N, R14E, Sec. 18 (M)	Acres:	0.0

Location: 3 MILES EAST OF GRIZZLY FLATS.
Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST ESTIMATE.
Ecological:
General: 1 MALE SPECIMEN (MSB #40651) COLLECTED ON 10 JUN 1979.
Owner/Manager: UNKNOWN

Occurrence No.	35	Map Index: 49957	EO Index: 68913	Element Last Seen: 1990-10-25
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1990-10-25
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2007-03-19

Quad Summary: Placerville (3812067)
County Summary: El Dorado

Lat/Long:	38.72955 / -120.79770	Accuracy:	1 mile
UTM:	Zone-10 N4289067 E691435	Elevation (ft):	
PLSS:	T10N, R11E, Sec. 07 (M)	Acres:	0.0

Location: PLACERVILLE.
Detailed Location: MAPPED TO INCLUDE LAT/LONG COORDINATES PROVIDED BY MANIS, WITH UNCERTAINTY OF 3229.9534 M.
Ecological:
General: CAS #16930 COLLECTED BY P.O. SIMONS ON 13 JUL 1896. 1 MALE SPECIMEN (MVZ #182378) COLLECTED BY WILLIAM E. RAINEY ON 25 OCT 1990.
Owner/Manager: UNKNOWN

Occurrence No.	36	Map Index: 68557	EO Index: 68914	Element Last Seen: 1990-10-30
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1990-10-30
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2007-03-19

Quad Summary: Pollock Pines (3812075)
County Summary: El Dorado

Lat/Long:	38.76291 / -120.58279	Accuracy:	2/5 mile
UTM:	Zone-10 N4293242 E710020	Elevation (ft):	4030
PLSS:	T11N, R12E, Sec. 36, NE (M)	Acres:	0.0

Location: POLLOCK PINES.
Detailed Location: MAPPED AT POLLOCK PINES ACCORDING TO LOCALITY DESCRIPTION PROVIDED BY MANIS. COORDINATES GIVEN POINT TO A LOCATION ABOUT 3 MILES NW OF POLLOCK PINES WITH AN UNCERTAINTY OF 15 MILES.
Ecological:
General: 1 MALE SPECIMEN (MVZ #182379) COLLECTED BY WILLIAM E. RAINEY ON 30 OCT 1990.
Owner/Manager: UNKNOWN



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



<i>Lasiurus cinereus</i>		Element Code: AMACC05030	
hoary bat			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G5
	State: None		State: S4
	Other: IUCN_LC-Least Concern, WBWG_M-Medium Priority		
Habitat:	General: PREFERS OPEN HABITATS OR HABITAT MOSAICS, WITH ACCESS TO TREES FOR COVER AND OPEN AREAS OR HABITAT EDGES FOR FEEDING.		
	Micro: ROOSTS IN DENSE FOLIAGE OF MEDIUM TO LARGE TREES. FEEDS PRIMARILY ON MOTHS. REQUIRES WATER.		

Occurrence No.	24	Map Index:	68487	EO Index:	68781	Element Last Seen:	1979-06-10
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1979-06-10	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2007-03-15		

Quad Summary: Caldor (3812054), Old Iron Mountain (3812064)
County Summary: El Dorado

Lat/Long:	38.63618 / -120.47187	Accuracy:	1 mile
UTM:	Zone-10 N4279437 E720047	Elevation (ft):	
PLSS:	T09N, R14E, Sec. 18 (M)	Acres:	0.0

Location: 3 MILES EAST OF GRIZZLY FLATS.
Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST ESTIMATE.
Ecological:
General: 3 MALE SPECIMENS (MSB #40648-40650) COLLECTED ON 10 JUN 1979.
Owner/Manager: UNKNOWN



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



<i>Corynorhinus townsendii</i>		Element Code: AMACC08010	
Townsend's big-eared bat			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G3G4
	State: None		State: S2
	Other: BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive, WBWG_H-High Priority		
Habitat:	General: THROUGHOUT CALIFORNIA IN A WIDE VARIETY OF HABITATS. MOST COMMON IN MESIC SITES.		
	Micro: ROOSTS IN THE OPEN, HANGING FROM WALLS AND CEILINGS. ROOSTING SITES LIMITING. EXTREMELY SENSITIVE TO HUMAN DISTURBANCE.		

Occurrence No.	440	Map Index:	92473	EO Index:	93610	Element Last Seen:	2010-09-29
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-09-29	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2014-05-20	
Quad Summary:	Tunnel Hill (3812086)						
County Summary:	El Dorado						
Lat/Long:	38.92779 / -120.74429		Accuracy:	1/10 mile			
UTM:	Zone-10 N4311183 E695534		Elevation (ft):	3195			
PLSS:	T13N, R11E, Sec. 34, SW (M)		Acres:	0.0			
Location:	W OF ROCK CREEK ROAD, ABOUT AND ABOUT 0.5 MI S OF WENTWORTH SPRINGS ROAD, 2.7 MI NW OF BALD MOUNTAIN (PEAK).						
Detailed Location:	MAPPED TO PROVIDED COORDINATES.						
Ecological:							
General:	1 BAT DETECTED ON 29 SEP 2010 BY S. TAYLOR WITH USE PETERSON D500X AND NOTED INDIVIDUAL WAS COMING IN FOR A DRINK OF WATER.						
Owner/Manager:	USFS-ELDORADO NF						

<i>Aplodontia rufa californica</i>		Element Code: AMAF01013	
Sierra Nevada mountain beaver			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G5T3T4
	State: None		State: S2S3
	Other: CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern		
Habitat:	General: DENSE GROWTH OF SMALL DECIDUOUS TREES & SHRUBS, WET SOIL, & ABUNDANCE OF FORBS IN THE SIERRA NEVADA & EAST SLOPE.		
	Micro: NEEDS DENSE UNDERSTORY FOR FOOD & COVER. BURROWS INTO SOFT SOIL. NEEDS ABUNDANT SUPPLY OF WATER.		



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	4	Map Index: 30646	EO Index: 4274	Element Last Seen: 1990-05-21
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1990-05-21
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1995-10-23

Quad Summary: Loon Lake (3812083)

County Summary: El Dorado

Lat/Long:	38.90676 / -120.29225	Accuracy:	1/5 mile
UTM:	Zone-10 N4309916 E734794	Elevation (ft):	6700
PLSS:	T12N, R15E, Sec. 10, NW (M)	Acres:	0.0

Location: 0.5 MILE NORTHWEST OF TWIN PEAKS, ABOUT 5 MILES ENE OF UNION VALLEY RESERVOIR.

Detailed Location:

Ecological: BURROWS FOUND IN ALDER THICKET.

General: SEVERAL BURROWS (BUT NO INDIVIDUALS) FOUND 21 MAY 1992.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	17	Map Index: 94827	EO Index: 95939	Element Last Seen: 2009-06-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 2009-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2015-01-09

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.80890 / -120.37251	Accuracy:	specific area
UTM:	Zone-10 N4298850 E728146	Elevation (ft):	5400
PLSS:	T11N, R14E, Sec. 11, SE (M)	Acres:	10.0

Location: ABOUT 1.2 MILES SW OF ICE HOUSE RESERVOIR DAM, NEAR ICE HOUSE RESORT, EAST OF POLLOCK PINES.

Detailed Location: MAPPED ACCORDING TO GPS POINTS PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITES SPI 035 AND SPI 036.

Ecological: RIPARIAN.

General: BURROWS WERE DETECTED AT THESE LOCATIONS AROUND JUNE 2009.

Owner/Manager: PVT-SIERRA PACIFIC

Occurrence No.	18	Map Index: 94828	EO Index: 95946	Element Last Seen: 2009-06-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 2009-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2015-01-09

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.81991 / -120.36141	Accuracy:	specific area
UTM:	Zone-10 N4300101 E729075	Elevation (ft):	5400
PLSS:	T11N, R14E, Sec. 12, NW (M)	Acres:	10.0

Location: ABOUT 0.25 MILE SOUTH OF ICE HOUSE RESERVOIR DAM, NEAR ICE HOUSE RESORT, EAST OF POLLOCK PINES.

Detailed Location: MAPPED ACCORDING TO GPS POINTS PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITES SPI 007 AND SPI 008.

Ecological: RIPARIAN.

General: BURROWS WERE DETECTED AT THESE LOCATIONS AROUND JUNE 2009.

Owner/Manager: PVT-SIERRA PACIFIC



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	19	Map Index: 94829	EO Index: 95947	Element Last Seen:	2009-06-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2009-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-09

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.82151 / -120.34905	Accuracy:	80 meters
UTM:	Zone-10 N4300309 E730143	Elevation (ft):	5500
PLSS:	T11N, R15E, Sec. 06, SW (M)	Acres:	0.0

Location: ABOUT 0.5 MILE EAST OF ICE HOUSE RESERVOIR DAM, SOUTH OF THE RESERVOIR, EAST OF POLLOCK PINES.

Detailed Location: MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 026.

Ecological: BRUSH FIELD.

General: BURROWS DETECTED HERE AROUND JUNE 2009.

Owner/Manager: PVT-SIERRA PACIFIC

Occurrence No.	20	Map Index: 94830	EO Index: 95948	Element Last Seen:	2009-06-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2009-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-09

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.80969 / -120.35472	Accuracy:	specific area
UTM:	Zone-10 N4298982 E729688	Elevation (ft):	5500
PLSS:	T11N, R14E, Sec. 12, SE (M)	Acres:	30.0

Location: TRIBUTARY DRAINAGES ON BOTH SIDES OF PEAVINE CREEK, 0.6 TO 1.3 MILES SOUTH OF ICE HOUSE RESERVOIR DAM.

Detailed Location: MAPPED ACCORDING TO GPS POINTS PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITES SPI 009, SPI 019, SPI 020, SPI 021, SPI 037, AND SPI 038.

Ecological: RIPARIAN, SPRING, AND SIERRAN MIXED CONIFER HABITATS.

General: BURROWS WERE DETECTED AT THESE LOCATIONS AROUND JUNE 2009.

Owner/Manager: PVT-SIERRA PACIFIC

Occurrence No.	21	Map Index: 94831	EO Index: 95949	Element Last Seen:	2009-06-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2009-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-09

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.81012 / -120.32018	Accuracy:	80 meters
UTM:	Zone-10 N4299118 E732687	Elevation (ft):	5700
PLSS:	T11N, R15E, Sec. 08, SE (M)	Acres:	0.0

Location: 0.6 MILE SOUTH OF THE EASTERN END OF ICE HOUSE RESERVOIR, SOUTH OF USFS ROAD 11N41, EAST OF POLLOCK PINES.

Detailed Location: MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 016.

Ecological: SPRING.

General: BURROWS DETECTED HERE AROUND JUNE 2009.

Owner/Manager: PVT-SIERRA PACIFIC



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	22	Map Index: 94832	EO Index: 95950	Element Last Seen:	2009-06-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2009-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-09
Quad Summary:	Kyburz (3812073)				
County Summary:	El Dorado				
Lat/Long:	38.80548 / -120.32435		Accuracy:	80 meters	
UTM:	Zone-10 N4298592 E732340		Elevation (ft):	5700	
PLSS:	T11N, R15E, Sec. 17, NW (M)		Acres:	0.0	
Location:	1.0 MILE SSW OF THE EASTERN END OF ICE HOUSE RESERVOIR, SOUTH OF USFS ROAD 11NY24, EAST OF POLLOCK PINES.				
Detailed Location:	MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 017.				
Ecological:	SPRING.				
General:	BURROWS DETECTED HERE AROUND JUNE 2009.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	23	Map Index: 94833	EO Index: 95951	Element Last Seen:	2009-06-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2009-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-09
Quad Summary:	Kyburz (3812073)				
County Summary:	El Dorado				
Lat/Long:	38.81497 / -120.27097		Accuracy:	80 meters	
UTM:	Zone-10 N4299783 E736944		Elevation (ft):	6500	
PLSS:	T11N, R15E, Sec. 11, NE (M)		Acres:	0.0	
Location:	0.5 MILE WEST OF THE CONFLUENCE OF LYONS CREEK AND SOUTH FORK SILVER CREEK, EAST OF ICE HOUSE RESERVOIR, NE OF KYBURZ.				
Detailed Location:	MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 022.				
Ecological:	WET MEADOW/SPRING.				
General:	BURROWS DETECTED HERE AROUND JUNE 2009.				
Owner/Manager:	PVT-SIERRA PACIFIC				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	24	Map Index: 94845	EO Index: 95962	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-13
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.87002 / -120.47430		Accuracy:	specific area	
UTM:	Zone-10 N4305385 E719119		Elevation (ft):	5000	
PLSS:	T12N, R13E, Sec. 24 (M)		Acres:	30.0	
Location:	1.7 TO 2.2 MILES WEST OF UNION VALLEY RESERVOIR DAM, ALONG DRAINAGES SOUTH OF HUNTERS VALLEY, NE OF POLLOCK PINES.				
Detailed Location:	MAPPED ACCORDING TO GPS POINTS PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITES SPI 029, SPI 030, SPI 045A, SPI 045B, SPI 046, AND SPI 047.				
Ecological:	RIPARIAN.				
General:	BURROWS WERE DETECTED AT THE TWO NORTHEASTERN LOCATIONS AROUND JUNE 2009 AND AT THE OTHER SITES ON 8 JUNE 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	25	Map Index: 94849	EO Index: 95963	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-13
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.86852 / -120.46502		Accuracy:	specific area	
UTM:	Zone-10 N4305240 E719929		Elevation (ft):	5000	
PLSS:	T12N, R13E, Sec. 24, SE (M)		Acres:	15.0	
Location:	1.1 TO 1.4 MILES WEST OF UNION VALLEY RESERVOIR DAM, ALONG DRAINAGES SOUTH OF HUNTERS VALLEY, NE OF POLLOCK PINES.				
Detailed Location:	MAPPED ACCORDING TO GPS POINTS PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITES SPI 032, SPI 033, AND SPI 033A.				
Ecological:	RIPARIAN AND SPRING HABITATS.				
General:	BURROWS WERE DETECTED AT THE TWO NORTHEASTERN LOCATIONS AROUND JUNE 2009 AND AT THE OTHER SITE ON 8 JUNE 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	26	Map Index: 94850	EO Index: 95970	Element Last Seen:	2009-06-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2009-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-13
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.81832 / -120.38926		Accuracy:	80 meters	
UTM:	Zone-10 N4299854 E726662		Elevation (ft):	5300	
PLSS:	T11N, R14E, Sec. 10, NE (M)		Acres:	0.0	
Location:	1.6 MILES WSW OF ICE HOUSE RESERVOIR DAM, NW OF SILVER CREEK CAMPGROUND, EAST OF POLLOCK PINES.				
Detailed Location:	MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 034.				
Ecological:	SPRING.				
General:	BURROWS DETECTED HERE AROUND JUNE 2009.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	27	Map Index: 94853	EO Index: 95972	Element Last Seen:	2009-06-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2009-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-13
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.87083 / -120.52007		Accuracy:	80 meters	
UTM:	Zone-10 N4305366 E715145		Elevation (ft):	4700	
PLSS:	T12N, R13E, Sec. 21, SE (M)		Acres:	0.0	
Location:	4.3 MILES WEST OF UNION VALLEY RESERVOIR DAM, ALONG A TRIBUTARY TO DAVIS CREEK, NE OF POLLOCK PINES.				
Detailed Location:	MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 027.				
Ecological:	RIPARIAN.				
General:	BURROWS DETECTED HERE AROUND JUNE 2009.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	28	Map Index: 94854	EO Index: 95973	Element Last Seen:	2010-01-22
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2010-01-22
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-16
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.95288 / -120.37705		Accuracy:	80 meters	
UTM:	Zone-10 N4314820 E727292		Elevation (ft):	5400	
PLSS:	T13N, R14E, Sec. 23, SW (M)		Acres:	0.0	
Location:	0.4 MILE EAST OF INTERSECTION OF WENTWORTH SPRINGS ROAD AND ICE HOUSE ROAD, NORTH OF SOUTH FORK RUBICON RIVER.				
Detailed Location:	MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 042.				
Ecological:	RIPARIAN.				
General:	BURROWS DETECTED HERE AROUND JUNE 2009 AND ALSO ON 22 JAN 2010.				
Owner/Manager:	PVT-SIERRA PACIFIC				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	29	Map Index: 94855	EO Index: 95974	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-13

Quad Summary: Robbs Peak (3812084)

County Summary: El Dorado

Lat/Long:	38.94463 / -120.45519	Accuracy:	80 meters
UTM:	Zone-10 N4313712 E720546	Elevation (ft):	5700
PLSS:	T13N, R14E, Sec. 30, W (M)	Acres:	0.0

Location: 0.2 MILE SOUTH OF WENTWORTH SPRINGS RD, 3.8 MI W OF INTERSECTION WITH ICE HOUSE RD, SOUTH OF SOUTH FORK RUBICON RIVER.

Detailed Location: MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 073.

Ecological: SPRING.

General: BURROWS DETECTED HERE ON 8 JUN 2011.

Owner/Manager: PVT-SIERRA PACIFIC

Occurrence No.	30	Map Index: 94856	EO Index: 95975	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-13

Quad Summary: Robbs Peak (3812084)

County Summary: El Dorado

Lat/Long:	38.93880 / -120.47179	Accuracy:	80 meters
UTM:	Zone-10 N4313025 E719125	Elevation (ft):	5250
PLSS:	T13N, R13E, Sec. 25, SW (M)	Acres:	0.0

Location: TRIBUTARY OF PILOT CREEK, 2.6 MILES NE OF INTERSECTION OF WENTWORTH SPRINGS RD AND USFS ROAD 14N08, E OF RUBICON RIVER.

Detailed Location: MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 072.

Ecological: RIPARIAN.

General: BURROWS DETECTED HERE ON 8 JUN 2011.

Owner/Manager: PVT-SIERRA PACIFIC



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	31	Map Index: 94857	EO Index: 95976	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-13
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.94085 / -120.44541		Accuracy:	specific area	
UTM:	Zone-10 N4313316 E721405		Elevation (ft):	5900	
PLSS:	T13N, R14E, Sec. 30, SE (M)		Acres:	15.0	
Location:	BOTH SIDES OF WENTWORTH SPRINGS RD, ABOUT 0.25 MILE NW OF USFS ROAD 13N34, W SIDE OF HARTLESS MOUNTAIN, SE OF LOON LAKE.				
Detailed Location:	MAPPED ACCORDING TO GPS POINTS PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITES SPI 013, SPI 075A, AND SPI 075B.				
Ecological:	RIPARIAN AND SPRING HABITATS.				
General:	BURROWS WERE DETECTED AT THE NORTHEASTERN LOCATION AROUND JUNE 2009 AND AT THE OTHER SITES ON 8 JUNE 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	32	Map Index: 94858	EO Index: 95977	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-13
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.93728 / -120.43404		Accuracy:	80 meters	
UTM:	Zone-10 N4312948 E722402		Elevation (ft):	5800	
PLSS:	T13N, R14E, Sec. 29, SW (M)		Acres:	0.0	
Location:	0.3 MILE SE OF INTERSECTION OF WENTWORTH SPRINGS ROAD & USFS ROAD 13N34, SE SIDE OF HARTLESS MOUNTAIN, SE OF LOON LAKE.				
Detailed Location:	MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 074.				
Ecological:	RIPARIAN.				
General:	BURROWS DETECTED HERE ON 8 JUN 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	33	Map Index: 94859	EO Index: 95978	Element Last Seen:	2009-06-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2009-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-13
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.94052 / -120.40929		Accuracy:	80 meters	
UTM:	Zone-10 N4313367 E724537		Elevation (ft):	5400	
PLSS:	T13N, R14E, Sec. 28, SE (M)		Acres:	0.0	
Location:	0.1 MILE NORTH OF WENTWORTH SPRINGS ROAD, 1 MILE WEST OF INTERSECTION WITH ICE HOUSE RD, NW OF ROBBS VALLEY.				
Detailed Location:	MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 043.				
Ecological:	RIPARIAN.				
General:	BURROWS DETECTED HERE AROUND JUNE 2009.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	34	Map Index: 94860	EO Index: 95979	Element Last Seen:	2009-06-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2009-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-13
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.93588 / -120.38057		Accuracy:	80 meters	
UTM:	Zone-10 N4312924 E727041		Elevation (ft):	5450	
PLSS:	T13N, R14E, Sec. 35, NW (M)		Acres:	0.0	
Location:	1.5 MILES NW OF THE SUMMIT OF ROBBS PEAK, SOUTH OF SOUTH FORK RUBICON RIVER, NORTH OF ROBBS VALLEY.				
Detailed Location:	MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 044.				
Ecological:	RIPARIAN.				
General:	BURROWS DETECTED HERE AROUND JUNE 2009.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	35	Map Index: 94861	EO Index: 95980	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-14
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.93050 / -120.47682		Accuracy:	specific area	
UTM:	Zone-10 N4312091 E718714		Elevation (ft):	5100	
PLSS:	T13N, R13E, Sec. 36, SW (M)		Acres:	10.0	
Location:	1.6-1.8 MI NE OF INTERSECTION OF WENTWORTH SPRINGS RD AND ROAD 14N08, ALONG PILOT CREEK TRIBUTARIES, W OF RUBICON RIVER.				
Detailed Location:	MAPPED ACCORDING TO GPS POINTS PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITES SPI 070, AND SPI 071.				
Ecological:	RIPARIAN AND SPRING HABITATS.				
General:	BURROWS WERE DETECTED HERE ON 8 JUNE 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	36	Map Index: 94862	EO Index: 95984	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-14
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.92978 / -120.43952		Accuracy:	specific area	
UTM:	Zone-10 N4312102 E721950		Elevation (ft):	5700	
PLSS:	T13N, R14E, Sec. 32, W (M)		Acres:	22.0	
Location:	1.9 MILES WNW OF THE SUMMIT OF ROBBS PEAK, ALONG A TRIBUTARY OF LITTLE SILVER CREEK, SOUTH OF SOUTH FORK RUBICON RIVER.				
Detailed Location:	MAPPED ACCORDING TO GPS POINTS PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITES SPI 076A, SPI 076B, SPI 076C, SPI 077A, AND SPI 077B.				
Ecological:	SPRING.				
General:	BURROWS WERE DETECTED HERE ON 8 JUNE 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	37	Map Index: 94863	EO Index: 95985	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-14
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.92573 / -120.41364		Accuracy:	specific area	
UTM:	Zone-10 N4311716 E724207		Elevation (ft):	6000	
PLSS:	T13N, R14E, Sec. 33, S (M)		Acres:	20.0	
Location:	FROM 0.4 MILE WSW TO 0.6 MILE NW OF THE SUMMIT OF ROBBS PEAK, ABOUT 2 MILES SOUTH OF SOUTH FORK RUBICON RIVER.				
Detailed Location:	MAPPED ACCORDING TO GPS POINTS PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITES SPI 078A, SPI 078B, SPI 079A, AND SPI 079B.				
Ecological:	SPRING AND RIPARIAN HABITATS.				
General:	BURROWS WERE DETECTED HERE ON 8 JUNE 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	38	Map Index: 94867	EO Index: 95989	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-14
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.91803 / -120.47444		Accuracy:	specific area	
UTM:	Zone-10 N4310713 E718959		Elevation (ft):	5200	
PLSS:	T12N, R13E, Sec. 01, NW (M)		Acres:	13.0	
Location:	1.7 MI W OF INTERSECTION OF WENTWORTH SPRINGS RD AND USFS RD 14N08, ALONG TRIBUTARY OF PILOT CREEK, W OF RUBICON RIVER.				
Detailed Location:	MAPPED ACCORDING TO GPS POINTS PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITES SPI 069A, SPI 069B, AND SPI 069C.				
Ecological:	RIPARIAN AND SPRING HABITATS.				
General:	BURROWS WERE DETECTED HERE ON 8 JUNE 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	39	Map Index: 94870	EO Index: 95990	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-14
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.91798 / -120.46166		Accuracy:	specific area	
UTM:	Zone-10 N4310738 E720067		Elevation (ft):	5500	
PLSS:	T12N, R13E, Sec. 01, NE (M)		Acres:	10.0	
Location:	2.3 MI W OF INTERSECTION OF WENTWORTH SPRINGS RD AND USFS RD 14N08, ALONG TRIBUTARY OF PILOT CREEK, W OF RUBICON RIVER.				
Detailed Location:	MAPPED ACCORDING TO GPS POINTS PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITES SPI 067 AND SPI 068.				
Ecological:	RIPARIAN.				
General:	BURROWS WERE DETECTED HERE ON 8 JUNE 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	40	Map Index: 94873	EO Index: 95993	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-14
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.91346 / -120.45097		Accuracy:	specific area	
UTM:	Zone-10 N4310263 E721008		Elevation (ft):	5500	
PLSS:	T12N, R14E, Sec. 06, SW (M)		Acres:	10.0	
Location:	3.3 MILES NNW OF UNION VALLEY RESERVOIR DAM, ALONG TRIBUTARY OF LITTLE SILVER CREEK, 0.2 MILE SOUTH OF USFS ROAD 13N34.				
Detailed Location:	MAPPED ACCORDING TO GPS POINTS PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITES SPI 062A AND SPI 062B.				
Ecological:	RIPARIAN.				
General:	BURROWS WERE DETECTED HERE ON 8 JUNE 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	41	Map Index: 94876	EO Index: 95995	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-14

Quad Summary: Robbs Peak (3812084)

County Summary: El Dorado

Lat/Long:	38.91114 / -120.47636	Accuracy:	specific area
UTM:	Zone-10 N4309944 E718813	Elevation (ft):	5200
PLSS:	T12N, R13E, Sec. 01, SE (M)	Acres:	11.0

Location: 1.6 MILES ESE OF INTERSECTION OF WENTWORTH SPRINGS ROAD AND USFS ROAD 14N08, NEAR PLUM CREEK, WEST OF RUBICON RIVER.

Detailed Location: MAPPED ACCORDING TO GPS POINTS PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITES SPI 066A AND SPI 066B.

Ecological: RIPARIAN.

General: BURROWS WERE DETECTED HERE ON 8 JUNE 2011.

Owner/Manager: PVT-SIERRA PACIFIC

Occurrence No.	42	Map Index: 94877	EO Index: 95996	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-14

Quad Summary: Robbs Peak (3812084)

County Summary: El Dorado

Lat/Long:	38.90747 / -120.46656	Accuracy:	specific area
UTM:	Zone-10 N4309560 E719675	Elevation (ft):	5600
PLSS:	T12N, R13E, Sec. 12, NE (M)	Acres:	15.0

Location: 2.2 MILES ESE OF INTERSECTION OF WENTWORTH SPRINGS ROAD AND USFS ROAD 14N08, HEAD OF PLUM CREEK, WEST OF RUBICON RIVER.

Detailed Location: MAPPED ACCORDING TO GPS POINTS PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITES SPI 065A, SPI 065B, AND SPI 065C.

Ecological: RIPARIAN.

General: BURROWS WERE DETECTED HERE ON 8 JUNE 2011.

Owner/Manager: PVT-SIERRA PACIFIC



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	43	Map Index: 94878	EO Index: 95998	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-14
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.90494 / -120.44290		Accuracy:	specific area	
UTM:	Zone-10 N4309337 E721734		Elevation (ft):	5200	
PLSS:	T12N, R14E, Sec. 07 (M)		Acres:	32.0	
Location:	1.1 TO 1.9 MILES ENE OF SILVER HILL, ALONG TRIBUTARIES OF LITTLE SILVER CREEK, 3 MILES N OF UNION VALLEY RESERVOIR DAM.				
Detailed Location:	MAPPED ACCORDING TO GPS POINTS PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITES SPI 054, SPI 055A, SPI 055B, SPI 059A, SPI 059B, SPI 060, AND SPI 061.				
Ecological:	RIPARIAN AND SPRING HABITATS.				
General:	BURROWS WERE DETECTED HERE ON 8 JUNE 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	44	Map Index: 94879	EO Index: 95999	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-14
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.90725 / -120.42411		Accuracy:	80 meters	
UTM:	Zone-10 N4309638 E723357		Elevation (ft):	5500	
PLSS:	T12N, R14E, Sec. 08, NE (M)		Acres:	0.0	
Location:	1.6 MILES SW OF THE SUMMIT OF ROBBS PEAK, EAST OF LITTLE SILVER CREEK, 3 MILES NNE OF UNION VALLEY RESERVOIR DAM.				
Detailed Location:	MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 058.				
Ecological:	RIPARIAN.				
General:	BURROWS WERE DETECTED HERE ON 8 JUNE 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	45	Map Index: 94881	EO Index: 96000	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-14
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.90535 / -120.41761		Accuracy:	80 meters	
UTM:	Zone-10 N4309444 E723926		Elevation (ft):	6000	
PLSS:	T12N, R14E, Sec. 09, NW (M)		Acres:	0.0	
Location:	1.5 MILES SW OF THE SUMMIT OF ROBBS PEAK, EAST OF LITTLE SILVER CREEK, 3 MILES NNE OF UNION VALLEY RESERVOIR DAM.				
Detailed Location:	MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 057.				
Ecological:	SPRING.				
General:	BURROWS WERE DETECTED HERE ON 8 JUNE 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	46	Map Index: 94882	EO Index: 96002	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-14

Quad Summary: Robbs Peak (3812084)
County Summary: El Dorado

Lat/Long:	38.90597 / -120.45821	Accuracy:	80 meters
UTM:	Zone-10 N4309414 E720403	Elevation (ft):	5490
PLSS:	T12N, R14E, Sec. 07, NW (M)	Acres:	0.0

Location: 0.8 MILE NE OF SILVER HILL, WEST OF LITTLE SILVER CREEK, 2.9 MILES NNW OF UNION VALLEY RESERVOIR DAM.
Detailed Location: MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 063.
Ecological: RIPARIAN.
General: BURROWS WERE DETECTED HERE ON 8 JUNE 2011.
Owner/Manager: PVT-SIERRA PACIFIC

Occurrence No.	47	Map Index: 94883	EO Index: 96003	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-14

Quad Summary: Robbs Peak (3812084)
County Summary: El Dorado

Lat/Long:	38.90407 / -120.47305	Accuracy:	80 meters
UTM:	Zone-10 N4309167 E719123	Elevation (ft):	5400
PLSS:	T12N, R13E, Sec. 12, NW (M)	Acres:	0.0

Location: 0.4 MILE NNW OF SILVER HILL, ALONG TRIBUTARY OF HONEY CREEK, 3.1 MILES NNW OF UNION VALLEY RESERVOIR DAM.
Detailed Location: MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 064.
Ecological: RIPARIAN.
General: BURROWS WERE DETECTED HERE ON 8 JUNE 2011.
Owner/Manager: PVT-SIERRA PACIFIC

Occurrence No.	48	Map Index: 94884	EO Index: 96004	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-14

Quad Summary: Robbs Peak (3812084)
County Summary: El Dorado

Lat/Long:	38.89744 / -120.47422	Accuracy:	80 meters
UTM:	Zone-10 N4308428 E719042	Elevation (ft):	5700
PLSS:	T12N, R13E, Sec. 12, SW (M)	Acres:	0.0

Location: 0.3 MILE WSW OF SILVER HILL, ALONG TRIBUTARY OF HONEY CREEK, 2.8 MILES NNW OF UNION VALLEY RESERVOIR DAM.
Detailed Location: MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 080.
Ecological: RIPARIAN.
General: BURROWS WERE DETECTED HERE ON 8 JUNE 2011.
Owner/Manager: PVT-SIERRA PACIFIC



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	49	Map Index: 94885	EO Index: 96005	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-14
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.89709 / -120.42949		Accuracy:	80 meters	
UTM:	Zone-10 N4308498 E722922		Elevation (ft):	5200	
PLSS:	T12N, R14E, Sec. 08, SE (M)		Acres:	0.0	
Location:	0.5 MILE NNE OF DEER KNOB, NEAR USFS ROAD 12N52, EAST OF LITTLE SILVER CREEK, 2.2 MI NNE OF UNION VALLEY RESERVOIR DAM.				
Detailed Location:	MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 053.				
Ecological:	RIPARIAN.				
General:	BURROWS WERE DETECTED HERE ON 8 JUNE 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	50	Map Index: 94886	EO Index: 96008	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-14
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.88694 / -120.48344		Accuracy:	80 meters	
UTM:	Zone-10 N4307240 E718274		Elevation (ft):	5350	
PLSS:	T12N, R13E, Sec. 14, NE (M)		Acres:	0.0	
Location:	1.1 MILE SW OF SILVER HILL, ALONG DRAINAGE NW OF HUNTERS VALLEY, 2.7 MILES WNW OF UNION VALLEY RESERVOIR DAM.				
Detailed Location:	MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 081.				
Ecological:	RIPARIAN.				
General:	BURROWS WERE DETECTED HERE ON 8 JUNE 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	51	Map Index: 94887	EO Index: 96009	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-14
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.88716 / -120.45124		Accuracy:	80 meters	
UTM:	Zone-10 N4307343 E721066		Elevation (ft):	4850	
PLSS:	T12N, R14E, Sec. 18, NW (M)		Acres:	0.0	
Location:	1.0 MILE WSW OF DEER KNOB, ALONG TRIBUTARY TO LITTLE SILVER CREEK, 1.5 MILES WNW OF UNION VALLEY RESERVOIR DAM.				
Detailed Location:	MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 050.				
Ecological:	RIPARIAN.				
General:	BURROWS WERE DETECTED HERE ON 8 JUNE 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	52	Map Index: 94888	EO Index: 96010	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-15
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.88682 / -120.44391		Accuracy:	specific area	
UTM:	Zone-10 N4307323 E721703		Elevation (ft):	5000	
PLSS:	T12N, R14E, Sec. 18, E (M)		Acres:	10.0	
Location:	0.6 MILE SW OF DEER KNOB, ALONG TRIBUTARY OF LITTLE SILVER CREEK, 1.4 MILES NORTH OF UNION VALLEY RESERVOIR DAM.				
Detailed Location:	MAPPED ACCORDING TO GPS POINTS PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITES SPI 012 AND SPI 012A.				
Ecological:	RIPARIAN.				
General:	BURROWS WERE DETECTED AT THE NW SITE AROUND JUNE 2009 AND AT THE SE SITE ON 8 JUNE 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	53	Map Index: 94891	EO Index: 96011	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-15
Quad Summary:	Riverton (3812074), Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.87843 / -120.48886		Accuracy:	specific area	
UTM:	Zone-10 N4306283 E717829		Elevation (ft):	5300	
PLSS:	T12N, R13E, Sec. 23 (M)		Acres:	32.0	
Location:	1.4 TO 2.3 MILES SW OF SILVER HILL, WEST OF HUNTERS VALLEY, 2.7 MILES WNW OF UNION VALLEY RESERVOIR DAM.				
Detailed Location:	MAPPED ACCORDING TO GPS POINTS PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITES SPI 025, SPI 051A, SPI 051B, SPI 051C, SPI 051D, SPI 052A, SPI 052B, SPI 052C, AND SPI 052D.				
Ecological:	RIPARIAN.				
General:	BURROWS WERE DETECTED AT THE FAR SW SITE AROUND JUNE 2009 AND AT THE OTHER SITES ON 8 JUNE 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	54	Map Index: 94892	EO Index: 96014	Element Last Seen:	2009-06-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2009-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-15
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.88035 / -120.47951		Accuracy:	80 meters	
UTM:	Zone-10 N4306518 E718635		Elevation (ft):	5000	
PLSS:	T12N, R13E, Sec. 14, SE (M)		Acres:	0.0	
Location:	1.4 MILES SSW OF SILVER HILL, AT WEST END OF HUNTERS VALLEY, 2.3 MILES WNW OF UNION VALLEY RESERVOIR DAM.				
Detailed Location:	MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 031.				
Ecological:	RIPARIAN.				
General:	BURROWS DETECTED HERE AROUND JUNE 2009.				
Owner/Manager:	PVT-SIERRA PACIFIC				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	55	Map Index: 94893	EO Index: 96017	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-15
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.87949 / -120.47204		Accuracy:	specific area	
UTM:	Zone-10 N4306441 E719285		Elevation (ft):	5000	
PLSS:	T12N, R13E, Sec. 13, SW (M)		Acres:	10.0	
Location:	1.3 TO 1.4 MILES SOUTH OF SILVER HILL, HUNTERS VALLEY, 2 MILES WNW OF UNION VALLEY RESERVOIR DAM.				
Detailed Location:	MAPPED ACCORDING TO GPS POINTS PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITES SPI 048A AND SPI 048B.				
Ecological:	RIPARIAN.				
General:	BURROWS WERE DETECTED HERE ON 8 JUNE 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				

Occurrence No.	56	Map Index: 94894	EO Index: 96018	Element Last Seen:	2011-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-15
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.88272 / -120.46519		Accuracy:	80 meters	
UTM:	Zone-10 N4306816 E719870		Elevation (ft):	5000	
PLSS:	T12N, R13E, Sec. 13, SE (M)		Acres:	0.0	
Location:	1.1 MILE SOUTH OF SILVER HILL, NORTH OF HUNTERS VALLEY, 1.7 MILES NW OF UNION VALLEY RESERVOIR DAM.				
Detailed Location:	MAPPED ACCORDING TO GPS POINT PROVIDED BY SIERRA PACIFIC INDUSTRIES FOR SITE SPI 049.				
Ecological:	RIPARIAN.				
General:	BURROWS WERE DETECTED HERE ON 8 JUNE 2011.				
Owner/Manager:	PVT-SIERRA PACIFIC				

<i>Erethizon dorsatum</i>		Element Code: AMAFJ01010
North American porcupine		
Listing Status:	Federal: None	CNDBB Element Ranks: Global: G5
	State: None	State: S3
	Other: IUCN_LC-Least Concern	
Habitat:	General: FORESTED HABITATS IN THE SIERRA NEVADA, CASCADE, AND COAST RANGES, WITH SCATTERED OBSERVATIONS FROM FORESTED AREAS IN THE TRANSVERSE RANGES.	
	Micro: WIDE VARIETY OF CONIFEROUS AND MIXED WOODLAND HABITAT.	



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	311	Map Index: A5489	EO Index: 107217	Element Last Seen:	2010-07-24
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-07-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-07-24
Quad Summary:	Loon Lake (3812083)				
County Summary:	El Dorado				
Lat/Long:	38.99284 / -120.28924		Accuracy:	1/10 mile	
UTM:	Zone-10 N4319478 E734772		Elevation (ft):	6709	
PLSS:	T13N, R15E, Sec. 10, NW (M)		Acres:	18.0	
Location:	ABOUT 0.3 MI NNW OF BROWN MOUNTAIN PEAK, 1.3 MI SE OF LOON LAKE DAM, 2.5 MI NE OF BERTS LAKE.				
Detailed Location:	MAPPED ACCORDING TO THE PROVIDED COORDINATES FOR THE CAMERA STATION. IT APPEARS THAT THE PORCUPINE WAS OBSERVED WHILE THE BIOLOGIST WAS MAINTAINING A CAMERA STATION.				
Ecological:	SIERRA MIXED CONIFER, JEFFREY PINE, WHITE FIR, AND LODGEPOLE PINE FOREST HABITAT.				
General:	AT LEAST 1 PORCUPINE DETECTED ON 24 JUL 2010 DURING A BAIT STATION MONITORING PROJECT. PORCUPINE WAS HEARD IN BRUSH AND LATER OBSERVED CLIMBING A FIR TREE UNTIL IT MANUEVERED INTO A HIDING SPOT.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	313	Map Index: A5491	EO Index: 107222	Element Last Seen:	2010-08-26
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-08-26
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-07-24
Quad Summary:	Loon Lake (3812083)				
County Summary:	El Dorado				
Lat/Long:	38.93719 / -120.31394		Accuracy:	1/5 mile	
UTM:	Zone-10 N4313237 E732814		Elevation (ft):	6565	
PLSS:	T13N, R15E, Sec. 32, NE (M)		Acres:	70.0	
Location:	ABOUT 0.8 MI SSE OF POISON HOLE, 1.3 MI NE OF SUN ROCK, 4 MI NNW OF SLICK ROCK, S OF LOON LAKE.				
Detailed Location:	MAPPED ACCORDING TO THE PROVIDED COORDINATES. BASSII TRAIL RUNS ADJACENT TO TELLS CREEK.				
Ecological:					
General:	1 PORCUPINE OBSERVED ON 26 AUG 2010.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	347	Map Index: A5758	EO Index: 107501	Element Last Seen:	1983-09-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1983-09-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-08-07
Quad Summary:	Placerville (3812067), Garden Valley (3812077)				
County Summary:	El Dorado				
Lat/Long:	38.75817 / -120.80023		Accuracy:	1 mile	
UTM:	Zone-10 N4292239 E691139		Elevation (ft):	1894	
PLSS:	T11N, R10E, Sec. 36 (M)		Acres:	1987.0	
Location:	ABOUT 2 MILES N OF PLACERVILLE, 3 MILES SSE OF KELSEY.				
Detailed Location:	MAPPED GENERALLY TO THE PROVIDED LOCATION DESCRIPTION OF "2 MILES NORTH OF PLACERVILLE." EXACT LOCATION UNKNOWN.				
Ecological:					
General:	1 MALE PORCUPINE COLLECTED (CAS# 22570) IN SEP 1983.				
Owner/Manager:	UNKNOWN				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Vulpes vulpes necator

Element Code: AMAJA03012

Sierra Nevada red fox

Listing Status: Federal: Candidate

CNDDB Element Ranks: Global: G5T1T2

State: Threatened

State: S1

Other: USFS_S-Sensitive

Habitat: General: HISTORICALLY 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 AND ROCKY AREAS FOR COVER AND DEN SITES. PREFER FORESTS INTERSPERSED WITH MEADOWS OR ALPINE FELL-FIELDS.

Occurrence No.	9	Map Index:	13642	EO Index:	23753	Element Last Seen:	19XX-XX-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		Record Last Updated:	2014-03-10
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				

Quad Summary: Kyburz (3812073), Riverton (3812074)

County Summary: El Dorado

Lat/Long:	38.81469 / -120.37414	Accuracy:	3/5 mile
UTM:	Zone-10 N4299489 E727986	Elevation (ft):	5300
PLSS:	T11N, R14E, Sec. 11 (M)	Acres:	0.0

Location: ICE HOUSE RESORT.

Detailed Location: MAPPED BY CNDDDB CENTERED ON ICE HOUSE RESORT, IN ELDORADO NATIONAL FOREST, SW OF ICE HOUSE RESERVOIR.

Ecological: CURRENTLY (2013) ONLY 2 POPULATIONS OF SIERRA NEVADA RED FOX ARE KNOWN TO EXIST: NEAR LASSEN PEAK & NEAR SONORA PASS. DNA ANALYSIS MUST BE DONE IN ORDER TO CONCLUSIVELY DETERMINE ID OF NATIVE SUBSPECIES. FURTHER RESEARCH NEEDED.

General: CLYDE CARTER WAS INTERVIEWED IN 1973 AND DESCRIBED SEVERAL OBSERVATIONS OF RED FOXES IN THIS VICINITY. SYSTEMATIC MESOCARNIVORE SURVEYS WITH BAITED TRACK PLATES & CAMERAS FROM 1996-1999 (ZIELINSKI; CAMPBELL) W/IN 3 MI DID NOT DETECT FOXES.

Owner/Manager: UNKNOWN

Occurrence No.	87	Map Index:	56373	EO Index:	56389	Element Last Seen:	1991-02-14
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		Record Last Updated:	2004-08-16
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				

Quad Summary: Loon Lake (3812083)

County Summary: El Dorado

Lat/Long:	38.96687 / -120.34821	Accuracy:	1/10 mile
UTM:	Zone-10 N4316445 E729746	Elevation (ft):	6200
PLSS:	T13N, R14E, Sec. 13, SE (M)	Acres:	0.0

Location: ALONG THE ROAD TO LOON LAKE, ABOUT 1.7 MILES SOUTHWEST OF THE LOON LAKE DAM, JUST EAST OF SCHLEIN RANGER STATION.

Detailed Location:

Ecological: CURRENTLY (2013) ONLY 2 POPULATIONS OF SIERRA NEVADA RED FOX ARE KNOWN TO EXIST: NEAR LASSEN PEAK & NEAR SONORA PASS. DNA ANALYSIS MUST BE DONE IN ORDER TO CONCLUSIVELY DETERMINE ID OF NATIVE SUBSPECIES.

General: ONE FOX OBSERVED AT 1215 HOURS. IT RAN TO THE DOWNHILL SIDE OF THE ROAD. SYSTEMATIC MESOCARNIVORE SURVEYS WITH BAITED TRACK PLATES & CAMERAS FROM 1996-1999 (ZIELINSKI; CAMPBELL) AT THIS SITE DID NOT DETECT ANY RED FOX. RESEARCH NEEDED.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	112	Map Index:	75933	EO Index:	76936	Element Last Seen:	1971-06-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:	1971-06-XX	Record Last Updated:	2009-07-23
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				

Quad Summary: Peddler Hill (3812053), Caldor (3812054)

County Summary: Amador, El Dorado

Lat/Long: 38.53685 / -120.40258 **Accuracy:** nonspecific area

UTM: Zone-10 N4268581 E726390 **Elevation (ft):** 5100

PLSS: T08N, R14E, Sec. 23, NW (M) **Acres:** 489.0

Location: HIGHWAY 88 FROM COOKS STATION TO HAMS STATION, WEST SIDE OF ELDORADO NATIONAL FOREST.

Detailed Location: LOCATION DESCRIBED AS "BET COOKS & HAMS STATION ON HWY 88." MAPPED BY CNDDDB ALONG HIGHWAY 88 BETWEEN COOKS STATION AND HAMS STATION.

Ecological: PRESUMED TO BE SN RED FOX BASED UPON ELEVATION AND HISTORIC RANGE. DNA ANALYSIS MUST BE DONE ORDER TO CONCLUSIVELY DETERMINE IF A RED FOX FOUND IN THE SIERRA NEVADA REGION IS VULPES VULPES NECATOR OR AN INTRODUCED SUBSPECIES.

General: INDIVIDUAL OBSERVED IN JUN 1971.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



<i>Pekania pennanti</i>		Element Code: AMAJF01021	
fisher - West Coast DPS			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G5T2T3Q
	State: Threatened		State: S2S3
	Other: BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, USFS_S-Sensitive		
Habitat:	General: INTERMEDIATE TO LARGE-TREE STAGES OF CONIFEROUS FORESTS AND DECIDUOUS-RIPARIAN AREAS WITH HIGH PERCENT CANOPY CLOSURE.		
	Micro: USES CAVITIES, SNAGS, LOGS AND ROCKY AREAS FOR COVER AND DENNING. NEEDS LARGE AREAS OF MATURE, DENSE FOREST.		

Occurrence No.	697	Map Index:	78043	EO Index:	78925	Element Last Seen:	1995-06-05
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1995-06-05	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2010-02-03	

Quad Summary: Devil Peak (3812085)
County Summary: El Dorado

Lat/Long:	38.90636 / -120.51787	Accuracy:	nonspecific area
UTM:	Zone-10 N4309314 E715229	Elevation (ft):	4860
PLSS:	T12N, R13E, Sec. 09, NE (M)	Acres:	21.0

Location: WENTWORTH SPRINGS ROAD AT ELEVEN PINES, NEAR EAST INTERSECTION WITH ONION VALLEY RD, ABOUT 10.2 RD MI E OF QUINETTE.
Detailed Location: LOCATION DESCRIBED AS "T12N R13E S09 NE NE, CROSSING ROAD." MAPPED TO WENTWORTH SPRINGS ROAD IN NE 1/4 OF NE 1/4 OF SECTION 9.
Ecological: MIXED CONIFER.
General: CATHERINE FOWLER OBSERVED 1 FISHER CROSSING THE ROAD ABOUT 100 FEET AHEAD OF HER VEHICLE ON 5 JUN 1995.
Owner/Manager: UNKNOWN

Occurrence No.	700	Map Index:	78087	EO Index:	78967	Element Last Seen:	1916-07-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1916-07-XX	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2010-02-08	

Quad Summary: Camino (3812066), Placerville (3812067), Shingle Springs (3812068), Slate Mtn. (3812076), Garden Valley (3812077), Coloma (3812078)
County Summary: El Dorado

Lat/Long:	38.72948 / -120.79835	Accuracy:	5 miles
UTM:	Zone-10 N4289058 E691378	Elevation (ft):	2000
PLSS:	T10N, R11E, Sec. 07 (M)	Acres:	0.0

Location: NEAR PLACERVILLE.
Detailed Location:
Ecological:
General: FIVE FISHERS WERE KILLED FOR THEIR PELTS NEAR PLACERVILLE DURING JULY 1916.
Owner/Manager: UNKNOWN

<i>Emys marmorata</i>		Element Code: ARAAD02030	
western pond turtle			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G3G4
	State: None		State: S3
	Other: BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_VU-Vulnerable, USFS_S-Sensitive		
Habitat:	General:		



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



A THOROUGHLY AQUATIC TURTLE OF PONDS, MARSHES, RIVERS, STREAMS AND IRRIGATION DITCHES, USUALLY WITH AQUATIC VEGETATION, BELOW 6000 FT ELEVATION.

Micro: NEEDS BASKING SITES AND SUITABLE (SANDY BANKS OR GRASSY OPEN FIELDS) UPLAND HABITAT UP TO 0.5 KM FROM WATER FOR EGG-LAYING.

Occurrence No.	437	Map Index:	27655	EO Index:	1044	Element Last Seen:	1993-06-30
Occ. Rank:	Excellent	Presence:	Presumed Extant	Site Last Seen:		1993-06-30	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		1996-01-02	
Quad Summary:	Camino (3812066)						
County Summary:	El Dorado						
Lat/Long:	38.66592 / -120.63992		Accuracy:	80 meters			
UTM:	Zone-10 N4282347 E705333		Elevation (ft):	2000			
PLSS:	T09N, R12E, Sec. 03, NW (M)		Acres:	0.0			
Location:	CAMP CREEK, ABOUT 4.2 KM NE OF SOMERSET; ABOVE CONFLUENCE WITH NORTH FORK COSUMNES RIVER.						
Detailed Location:							
Ecological:	MIXED CONIFER: DOUGLAS-FIR, PONDEROSA PINE, OAKS. CAMP CREEK IS CLASSIFIED AS A CENTRAL VALLEY DRAINAGE RESIDENT RAINBOW TROUT STREAM (CARA2421CA).						
General:	2 JUVENILES OBSERVED. HELICOPTER SALVAGE OF BUG-KILLED TREES, NO PERCEIVED THREAT.						
Owner/Manager:	USFS-ELDORADO NF, BLM						

Occurrence No.	444	Map Index:	32822	EO Index:	1134	Element Last Seen:	XXXX-XX-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		XXXX-XX-XX	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		1996-01-17	
Quad Summary:	Garden Valley (3812077), Coloma (3812078)						
County Summary:	El Dorado						
Lat/Long:	38.78172 / -120.84922		Accuracy:	nonspecific area			
UTM:	Zone-10 N4294751 E686820		Elevation (ft):	800			
PLSS:	T11N, R10E, Sec. 22 (M)		Acres:	321.2			
Location:	NORTH OF PLACERVILLE ON SOUTH FORK AMERICAN RIVER, VICINITY OF COLOMA.						
Detailed Location:							
Ecological:							
General:	COLLECTION MADE BY G. FELLERS, DATE AND NUMBERS OF SPECIMENS UNKNOWN.						
Owner/Manager:	UNKNOWN						



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	559	Map Index: 49244	EO Index: 49244	Element Last Seen:	2002-07-11
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2002-07-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2002-11-04

Quad Summary: Fiddletown (3812057)

County Summary: Amador

Lat/Long:	38.52199 / -120.84716	Accuracy:	80 meters
UTM:	Zone-10 N4265930 E687675	Elevation (ft):	
PLSS:	T08N, R10E, Sec. 26 (M)	Acres:	0.0

Location: BIG INDIAN CREEK, JUST EAST OF HIGHWAY 49, 2.75 MILES NORTH OF PLYMOUTH.

Detailed Location: BASKING AREA WAS THE POOL SHORELINE.

Ecological: HABITAT CONSISTS OF A SMALL POOL WITHIN AN INTERMITTENT STREAM; QUERCUS SSP, SALIX SSP, FRAXINUS LATIFOLIA, AND AESCULUS CALIFORNICA WERE THE DOMINANT PLANT SPECIES. SURROUNDED BY AGRICULTURE (VINEYARDS AND PASTURE).

General: 1 INDIVIDUAL OBSERVED ON 8 JUL 2002.

Owner/Manager: PVT

Occurrence No.	567	Map Index: 49534	EO Index: 49534	Element Last Seen:	2002-XX-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2002-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2002-12-03

Quad Summary: Placerville (3812067)

County Summary: El Dorado

Lat/Long:	38.71637 / -120.79298	Accuracy:	80 meters
UTM:	Zone-10 N4287614 E691881	Elevation (ft):	2200
PLSS:	T10N, R11E, Sec. 17, SW (M)	Acres:	0.0

Location: NORTH SIDE OF HARRIS ROAD, BETWEEN CEDAR RAVINE & BIG CUT ROAD, PLACERVILLE.

Detailed Location: THIS IS THE ONLY YEAR-ROUND, OPEN-WATER POND IN THE IMMEDIATE AREA.

Ecological: HABITAT CONSISTS OF A FRESHWATER POND, DOMINATED BY CATTAILS; SURROUNDED BY WILLOWS, BLACKBERRY VINES, RUSHES, NATIVE GRASSES, AND TOYON (OAK/PINE COMMUNITY).

General: 3 ADULTS AND 2 JUVENILES OBSERVED 16 MAY 2001. OBSERVATIONS CONTINUED THROUGH 2002.

Owner/Manager: PVT-PLACERVILLE GOLD MINING CO



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	667	Map Index:	69769	EO Index:	70576	Element Last Seen:	2005-04-22
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2005-04-22	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2007-08-21	

Quad Summary: Placerville (3812067)

County Summary: El Dorado

Lat/Long:	38.65659 / -120.85393	Accuracy:	specific area
UTM:	Zone-10 N4280854 E686735	Elevation (ft):	1635
PLSS:	T09N, R10E, Sec. 10, NE (M)	Acres:	12.0

Location: LOGTOWN CREEK, JUST WEST OF THE INTERSECTION OF HIGHWAY 49 AND SIERRA REAL ROAD, 1.7 MILES SOUTH OF EL DORADO.

Detailed Location:

Ecological: HABITAT CONSISTS OF A SHALLOW, INTERMITTENT STREAM SET IN ANNUAL GRASSLAND, WITH SOME POOLS UP TO 2' IN DIAMETER; VEGETATED BY MENTA PULEGIUM, RORRIPA NASTURTIIUM-AQUATICA, RUMEX CRISPUS, AND JUNCUS BALTICUS.

General: 2 ADULTS OBSERVED ON 22 APR 2005.

Owner/Manager: PVT

Occurrence No.	668	Map Index:	69771	EO Index:	70579	Element Last Seen:	2005-04-22
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2005-04-22	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2007-08-21	

Quad Summary: Placerville (3812067)

County Summary: El Dorado

Lat/Long:	38.67787 / -120.87349	Accuracy:	80 meters
UTM:	Zone-10 N4283177 E684979	Elevation (ft):	1525
PLSS:	T10N, R10E, Sec. 33, SE (M)	Acres:	0.0

Location: SLATE CREEK AT THE PLEASANT VALLEY ROAD CROSSING, 3 MILES ENE OF SHINGLE SPRINGS.

Detailed Location:

Ecological: HABITAT CONSISTS OF AN INTERMITTENT CREEK, WITH A COBBLE/GRAVEL/SILT SUBSTRATE THAT RUNS UNDER A REINFORCED CONCRETE BOX BRIDGE.

General: 1 ADULT OBSERVED ON 22 APR 2005.

Owner/Manager: CALTRANS



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	673	Map Index:	69846	EO Index:	70669	Element Last Seen:	2005-04-22
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2005-04-22	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2007-09-04	

Quad Summary: Placerville (3812067)

County Summary: El Dorado

Lat/Long:	38.64823 / -120.85284	Accuracy:	specific area
UTM:	Zone-10 N4279929 E686852	Elevation (ft):	1760
PLSS:	T09N, R10E, Sec. 11, SW (M)	Acres:	10.0

Location: PONDS ON MINEHANA CREEK AND LOGTOWN CREEK, 6 MILES SSW OF PLACERVILLE.

Detailed Location: SITE CONSISTS OF 3 PONDS IN MINEHANA CREEK AND LOGTOWN CREEK.

Ecological: HABITATA CONSISTS OF PONDS WHICH ARE VEGETATED BY TYPHA LATIFOLIA AND SALIX SP; SURROUNDED BY GRAZING LAND.

General: 12 ADULTS OBSERVED ON 22 APR 2005.

Owner/Manager: PVT

Occurrence No.	768	Map Index:	49277	EO Index:	71707	Element Last Seen:	2007-09-26
Occ. Rank:	Excellent	Presence:	Presumed Extant	Site Last Seen:		2007-09-26	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2008-02-25	

Quad Summary: Sly Park (3812065)

County Summary: El Dorado

Lat/Long:	38.74489 / -120.59958	Accuracy:	80 meters
UTM:	Zone-10 N4291203 E708614	Elevation (ft):	3200
PLSS:	T10N, R12E, Sec. 01 (M)	Acres:	0.0

Location: SPIVEY POND, ON THE NORTH FORK OF WEBER CREEK, EL DORADO COUNTY.

Detailed Location:

Ecological:

General: 1 ADULT WAS OBSERVED ON 26 SEPT 2007.

Owner/Manager: PVT

Occurrence No.	1482	Map Index:	B2178	EO Index:	114100	Element Last Seen:	2016-06-16
Occ. Rank:	Fair	Presence:	Presumed Extant	Site Last Seen:		2016-06-16	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2019-02-01	

Quad Summary: Garden Valley (3812077)

County Summary: El Dorado

Lat/Long:	38.7827 / -120.78166	Accuracy:	specific area
UTM:	Zone-10 N4295000 E692687	Elevation (ft):	1084
PLSS:	T11N, R11E, Sec. 20 (M)	Acres:	24.0

Location: ALONG THE SOUTH FORK AMERICAN RIVER, FROM THE ROCK CREEK POWERHOUSE TO ABOUT 0.3 MI DOWNSTREAM (WEST).

Detailed Location: MAPPED TO PROVIDED COORDINATES AND LOCATIONS FROM NRIS DATABASE.

Ecological: 2016: BEDROCK BASKING SITE NEAR DISCONNECTED BACKWATER POOL; SPARSE RIPARIAN VEGETATION PRESENT.

General: AT LEAST 2 OBSERVED IN 2003. 1 ADULT MALE OBSERVED BASKING ON 16 JUN 2016.

Owner/Manager: UNKNOWN, BLM



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Sacramento-San Joaquin Foothill/Valley Ephemeral Stream

Element Code: CARA2130CA

Sacramento-San Joaquin Foothill/Valley Ephemeral Stream

Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: GNR
	State: None		State: SNR
	Other:		
Habitat:	General: <input type="checkbox"/>		
	Micro: <input type="checkbox"/>		

Occurrence No.	1	Map Index:	30033	EO Index:	25111	Element Last Seen:	1987-XX-XX
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		1987-XX-XX	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		1996-01-02	

Quad Summary: Omo Ranch (3812055), Sly Park (3812065), Camino (3812066)

County Summary: El Dorado

Lat/Long:	38.63910 / -120.62673	Accuracy:	nonspecific area
UTM:	Zone-10 N4279400 E706558	Elevation (ft):	2500
PLSS:	T09N, R12E, Sec. 14, NW (M)	Acres:	160.3

Location: JACKASS CANYON, ABOUT 5 KILOMETERS EAST OF SOMERSET.

Detailed Location: FROM MOUTH ON NORTH FORK COSUMNES RIVER UPSTREAM TO THE HEADWATERS.

Ecological: AT LEAST 7 SPECIES OF STONEFLIES INHABIT THE STREAM, INCLUDING AN ABUNDANT POPULATION OF COSUMNERPERLA HYPOCRENA, A RARE ENDEMIC WITH AN UNUSUAL LIFE HISTORY.

General: STREAM FLOWS THROUGH STEEP CANYON IN OAK WOODLAND AND MIXED CONIFER FOREST.

Owner/Manager: PVT



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Central Valley Drainage Spring Stream		Element Code: CARA2413CA	
Central Valley Drainage Spring Stream			
Listing Status:	Federal: None	CNDDB Element Ranks:	Global: GNR
	State: None		State: SNR
	Other:		
Habitat:	General: <input type="checkbox"/>		
	Micro: <input type="checkbox"/>		

Occurrence No.	1	Map Index: 25974	EO Index: 5091	Element Last Seen:	1989-XX-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1989-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1995-10-23
Quad Summary:	Old Iron Mountain (3812064)				
County Summary:	El Dorado				
Lat/Long:	38.70471 / -120.40576		Accuracy:	80 meters	
UTM:	Zone-10 N4287203 E725587		Elevation (ft):	5550	
PLSS:	T10N, R14E, Sec. 22, SE (M)		Acres:	0.0	
Location:	STUMP SPRING, 0.8 MILE WEST OF OLD IRON MOUNTAIN, SOUTH SIDE OF IRON MTN ROAD, EL DORADO COUNTY.				
Detailed Location:	SPRING AND AREA IMMEDIATELY SURROUNDING IT.				
Ecological:	CONTAINS ABUNDANT POPULATION OF BLIND, UNPIGMENTED, AMPHIPOD STYGOBROMUS, PROBABLY AN UNDESCRIBED SPECIES. OTHER UNUSUAL AQUATIC INSECTS WERE REPORTED TO OCCUR THERE AS WELL.				
General:	SPRING IS CONTAINED IN HUMAN-MADE STRUCTURE WHICH COULD BE REMOVED TO RESTORE THE NATURAL SPRING OUTFLOW.				
Owner/Manager:	USFS-ELDORADO NF				

Occurrence No.	2	Map Index: 30034	EO Index: 5090	Element Last Seen:	1989-XX-XX
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	1989-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1995-10-23
Quad Summary:	Old Iron Mountain (3812064)				
County Summary:	El Dorado				
Lat/Long:	38.65296 / -120.48389		Accuracy:	nonspecific area	
UTM:	Zone-10 N4281270 E718950		Elevation (ft):	4600	
PLSS:	T09N, R13E, Sec. 12, NE (M)		Acres:	33.5	
Location:	BENDORF SPRING AND STREAM BELOW IT, ABOUT 3 MILES NORTHEAST OF GRIZZLY FLAT, EL DORADO COUNTY.				
Detailed Location:	SPRING SOURCE, DOWNSTREAM FLOW FOR 0.5 KILOMETERS, AND SURROUNDING AREA.				
Ecological:	HIGH DIVERSITY OF STONEFLIES (AT LEAST 23 SPECIES) INCLUDING ABUNDANT POPULATIONS OF 2 RARE SPP, SUSULUS VENUSTUS AND MEGALEUCTRA STIGMATA.				
General:	SPRING AND STREAM FLOWS THROUGH DENSE, MIXED CONIFER FOREST, WITH DOGWOOD AND ALDER IN WETTER AREAS.				
Owner/Manager:	USFS-ELDORADO NF				

Central Valley Drainage Resident Rainbow Trout Stream		Element Code: CARA2421CA	
Central Valley Drainage Resident Rainbow Trout Stream			
Listing Status:	Federal: None	CNDDB Element Ranks:	Global: GNR
	State: None		State: SNR
	Other:		
Habitat:	General: <input type="checkbox"/>		



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Micro:

Occurrence No.	2	Map Index:	31150	EO Index:	1144	Element Last Seen:	1993-08-04
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:	1993-08-04	Record Last Updated:	1996-02-15
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				

Quad Summary: Leek Spring Hill (3812063), Old Iron Mountain (3812064), Sly Park (3812065), Camino (3812066)
County Summary: El Dorado

Lat/Long:	38.69068 / -120.57761	Accuracy:	specific area
UTM:	Zone-10 N4285237 E710683	Elevation (ft):	4200
PLSS:	T10N, R13E, Sec. 30 (M)	Acres:	2732.9

Location: CAMP CREEK AND MAJOR TRIBUTARIES, IN ELDORADO NATIONAL FOREST.
Detailed Location: FROM ABOUT 1 MILE ABOVE CONFLUENCE WITH NORTH FORK COSUMNES RIVER UPSTREAM TO HEADWATERS.
Ecological: RAINBOW TROUT ARE THE DOMINANT FISH SPECIES; BROWN TROUT ARE THE ONLY OTHER FISH SPECIES KNOWN TO OCCUR. FOOTHILL YELLOW-LEGGED FROGS REPORTED IN LOWER REACHES. RIPARIAN VEGETATION INCLUDES ALDERS, COTTONWOODS, DOGWOODS, MAPLES & CEDARS.
General: THE LOWER REACHES ARE IN A STEEP CANYON WITH LITTLE ACCESS; THE AQUATIC ECOSYSTEM IS INTACT WITH THE EXCEPTION OF THE REACHES BELOW THE WATER DIVERSION.
Owner/Manager: USFS-ELDORADO NF

Occurrence No.	3	Map Index:	25574	EO Index:	1143	Element Last Seen:	1991-XX-XX
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:	1991-XX-XX	Record Last Updated:	1996-02-15
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				

Quad Summary: Caldor (3812054), Omo Ranch (3812055), Leek Spring Hill (3812063), Old Iron Mountain (3812064), Sly Park (3812065)
County Summary: El Dorado

Lat/Long:	38.64490 / -120.37788	Accuracy:	specific area
UTM:	Zone-10 N4280634 E728202	Elevation (ft):	3206
PLSS:	T09N, R14E, Sec. 12 (M)	Acres:	2793.9

Location: NORTH FORK COSUMNES RIVER, ELDORADO NATIONAL FOREST.
Detailed Location: FROM CONFLUENCE OF STEELY FORK CREEK UPSTREAM TO HEADWATERS IN LEEK SPRINGS VALLEY. INCLUDES STEELY FORK AND OTHER MAJOR TRIBUTARIES.
Ecological: RAINBOW TROUT DOMINANT FISH SPECIES. BROWN TROUT POPULATION 3:1 OVER RAINBOW IN MIDDLE REACHES OF NORTH FORK. BROOK TROUT COMMON IN UPPER REACHES. 300 AQUATIC INSECT TAXA KNOWN INCLUDING 70 SPECIES OF STONEFLIES.
General: NO MAJOR DAMS EXIST FOR ENTIRE DRAINAGE. WATER DIVERSION ON LOWER NORTH FORK COSUMNES RIVER.
Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	4	Map Index: 31149	EO Index: 1145	Element Last Seen:	1993-07-22
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1993-07-22
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1996-02-15
Quad Summary:	Bear River Reservoir (3812052), Peddler Hill (3812053), Caldor (3812054), Omo Ranch (3812055)				
County Summary:	El Dorado				
Lat/Long:	38.57651 / -120.34572		Accuracy:	specific area	
UTM:	Zone-10 N4273124 E731221		Elevation (ft):	3800	
PLSS:	T08N, R15E, Sec. 05 (M)		Acres:	3901.1	
Location:	MIDDLE FORK COSUMNES RIVER AND MAJOR TRIBUTARIES. ELDORADO NATIONAL FOREST.				
Detailed Location:	FROM CONFLUENCE OF SOPIAGO CREEK UPSTREAM TO HEADWATERS IN FOSTER MEADOWS. INCLUDES MAJOR TRIBUTARIES TO MIDDLE FORK.				
Ecological:	RAINBOW TROUT DOMINANT SPP. BROWN TROUT COMMON IN MIDDLE REACHES. BROOK TROUT ABUNDANT IN UPPER ANDERSON CANYON. HATCHERY RAINBOW TROUT STOCKED NEAR PI-PI CAMPGROUND. MOUNTAIN YELLOW-LEGGED FROGS REPORTED IN ANDERSON CYN.				
General:	NO MAJOR DAMS OR WATER DIVERSIONS EXIST IN DRAINAGE.				
Owner/Manager:	USFS-ELDORADO NF				

Central Valley Drainage Hardhead/Squawfish Stream			Element Code: CARA2443CA		
Central Valley Drainage Hardhead/Squawfish Stream					
Listing Status:	Federal: None		CNDDB Element Ranks:	Global: GNR	
	State: None			State: SNR	
	Other:				
Habitat:	General: <input type="checkbox"/>				
	Micro: <input type="checkbox"/>				

Occurrence No.	3	Map Index: 35355	EO Index: 29426	Element Last Seen:	1979-09-07
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	1979-09-07
Occ. Type:	Natural/Native occurrence		Trend: Decreasing	Record Last Updated:	1996-09-24
Quad Summary:	Aukum (3812056), Fiddletown (3812057), Latrobe (3812058), Camino (3812066), Placerville (3812067)				
County Summary:	Amador, El Dorado				
Lat/Long:	38.58909 / -120.84447		Accuracy:	nonspecific area	
UTM:	Zone-10 N4273382 E687736		Elevation (ft):	800	
PLSS:	T09N, R10E, Sec. 35 (M)		Acres:	2604.2	
Location:	COSUMNES RIVER, NORTH OF PLYMOUTH.				
Detailed Location:	FROM LATROBE ROAD UPSTREAM TO FORK OF COSUMNES. INCLUDES LOWER REACHES OF NORTH AND MIDDLE FORK COSUMNES UP TO COUNTY ROAD E-16.				
Ecological:	SQUAWFISH AND SACRAMENTO SUCKERS PRESENT THROUGHOUT REACH; ONLY REPORT OF HARDHEAD IS 1 MILE BELOW HWY 49.				
General:	LITTLE INFORMATION ON AQUATIC ORGANISMS AVAILABLE FOR LOWER COSUMNES AS IT FLOWS THROUGH PRIVATE LANDS. NO MAJOR DAMS EXIST IN COSUMNES DRAINAGE, SO RIVER IS POTENTIALLY RESTORABLE.				
Owner/Manager:	PVT				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Sphagnum Bog		Element Code: CTT51110CA	
Sphagnum Bog			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G3
	State: None		State: S1.2
	Other:		
Habitat:	General: <input type="checkbox"/>		
	Micro: <input type="checkbox"/>		

Occurrence No.	7	Map Index:	13250	EO Index:	11162	Element Last Seen:	1977-05-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1977-05-XX	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		1998-07-16	
Quad Summary:	Pollock Pines (3812075), Devil Peak (3812085)						
County Summary:	El Dorado						
Lat/Long:	38.86851 / -120.57659		Accuracy:	1 mile			
UTM:	Zone-10 N4304976 E710248		Elevation (ft):	4480			
PLSS:	T12N, R13E, Sec. 19, SE (M)		Acres:	0.0			
Location:	KINGS MEADOW (ALSO R13E, SECTIONS 19 & 30).						
Detailed Location:	4700 FT.						
Ecological:	DROSERA ROTUNDIFOLIA AND UTRICULARIA VULGARIS PRESENT. SURROUNDED BY CUT-OVER MIXED CONIFER FOREST.						
General:	SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.						
Owner/Manager:	PVT						

Nebria darlingtoni		Element Code: IICOL6L100	
South Forks ground beetle			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G1
	State: None		State: S1
	Other:		
Habitat:	General: RESTRICTED TO THE CANYON OF THE SOUTH FORK AMERICAN RIVER.		
	Micro: <input type="checkbox"/>		



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	1	Map Index: 58425	EO Index: 58461	Element Last Seen:	197X-07-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	197X-07-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-26
Quad Summary:	Kyburz (3812073)				
County Summary:	El Dorado				
Lat/Long:	38.77763 / -120.25771		Accuracy:	nonspecific area	
UTM:	Zone-10 N4295673 E738220		Elevation (ft):	4700	
PLSS:	T11N, R16E, Sec. 30 (M)		Acres:	45.2	
Location:	2 MILES EAST OF KYBURZ ON SOUTH FORK AMERICAN RIVER.				
Detailed Location:					
Ecological:	SOUTH FORK AMERICAN RIVER CANYON.				
General:	5 SPECIMENS DEPOSITED AT CAS. COLLECTED IN JULY; NO YEAR (BUT PROBABLY 1970S) AND NO FURTHER INFORMATION GIVEN.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	2	Map Index: 58426	EO Index: 58462	Element Last Seen:	1975-07-16
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1975-07-16
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2004-12-09
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.76560 / -120.49740		Accuracy:	1/5 mile	
UTM:	Zone-10 N4293740 E717432		Elevation (ft):	2985	
PLSS:	T11N, R13E, Sec. 26 (M)		Acres:	0.0	
Location:	3 MILES WEST OF RIVERTON, ON SOUTH FORK OF AMERICAN RIVER.				
Detailed Location:	TYPE LOCALITY.				
Ecological:					
General:	HOLOTYPE MALE AND ALLOTYPE FEMALE (DEPOSITED IN CAS), AND 105 MALE AND 65 FEMALE PARATYPES DEPOSITED IN VARIOUS COLLECTIONS. ALSO 151 SPECIMENS FROM BRIDAL FALLS PICNIC AREA, 3 MILES WEST OF RIVERTON.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	3	Map Index: 58428	EO Index: 58464	Element Last Seen:	XXXX-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	XXXX-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-26
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.77545 / -120.40413		Accuracy:	1/5 mile	
UTM:	Zone-10 N4295059 E725505		Elevation (ft):	3750	
PLSS:	T11N, R14E, Sec. 27 (M)		Acres:	0.0	
Location:	WHITE HALL.				
Detailed Location:					
Ecological:					
General:	2 SPECIMENS COLLECTED IN JUNE; NO YEAR AND NO OTHER INFORMATION GIVEN.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	4	Map Index:	61157	EO Index:	61193	Element Last Seen:	1979-06-25
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1979-06-25	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2005-04-29	

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.75430 / -120.26880	Accuracy:	1/10 mile
UTM:	Zone-10 N4293054 E737333	Elevation (ft):	4300
PLSS:	T11N, R15E, Sec. 35, SE (M)	Acres:	0.0

Location: CHINA FLAT CAMPGROUND, 2 MILES SOUTH OF KYBURZ.

Detailed Location:

Ecological:

General: 1 SPECIMEN DEPOSITED IN THE CALIFORNIA STATE COLLECTION OF ARTHROPODS (CDFA), COLLECTED BY W. AND A. HARDY.

Owner/Manager: USFS-ELDORADO NF

<i>Bombus occidentalis</i>		Element Code: IIHYM24250
western bumble bee		
Listing Status:	Federal: None	CNDDB Element Ranks: Global: G2G3
	State: None	State: S1
	Other: USFS_S-Sensitive, XERCES_IM-Imperiled	
Habitat:	General: ONCE COMMON & WIDESPREAD, SPECIES HAS DECLINED PRECIPITOUSLY FROM CENTRAL CA TO SOUTHERN B.C., PERHAPS FROM DISEASE.	
	Micro: <input type="checkbox"/>	

Occurrence No.	148	Map Index:	98424	EO Index:	99845	Element Last Seen:	1985-06-01
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1985-06-01	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2015-12-14	

Quad Summary: Slate Mtn. (3812076), Tunnel Hill (3812086)

County Summary: El Dorado

Lat/Long:	38.89820 / -120.65181	Accuracy:	nonspecific area
UTM:	Zone-10 N4308101 E703636	Elevation (ft):	4300
PLSS:	T12N, R12E, Sec. 08 (M)	Acres:	2874.0

Location: BLODGETT FOREST RESEARCH STATION, 15 MILES EAST OF GEORGETOWN.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB NON-SPECIFICALLY ACROSS THE EXTENT OF BLODGETT FOREST RESEARCH STATION.

Ecological:

General: COLLECTIONS FROM 4 JUL 1983 AND 1 JUN 1985.

Owner/Manager: UC-BLODGETT FOREST RS



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



<i>Bombus caliginosus</i>		Element Code: IIHYM24380	
obscure bumble bee			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G4?
	State: None		State: S1S2
	Other: IUCN_VU-Vulnerable		
Habitat:	General: COASTAL AREAS FROM SANTA BARABARA COUNTY TO NORTH TO WASHINGTON STATE.		
	Micro: FOOD PLANT GENERA INCLUDE BACCHARIS, CIRSIUM, LUPINUS, LOTUS, GRINDELIA AND PHACELIA.		

Occurrence No.	88	Map Index:	82341	EO Index:	97719	Element Last Seen:	1981-06-13
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1981-06-13	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2015-06-30	

Quad Summary: Kyburz (3812073)
County Summary: El Dorado

Lat/Long:	38.77479 / -120.29524	Accuracy:	1 mile
UTM:	Zone-10 N4295260 E734969	Elevation (ft):	4100
PLSS:	T11N, R15E, Sec. 27 (M)	Acres:	0.0

Location: KYBURZ.
Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB IN THE GENERAL VICINITY OF KYBURZ, ALONG HIGHWAY 50.
Ecological:
General: COLLECTED 13 JUN 1981.
Owner/Manager: USFS-ELDORADO NF

<i>Orobittacus obscurus</i>		Element Code: IIMEC07010	
gold rush hanging scorpionfly			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G1
	State: None		State: S1
	Other:		
Habitat:	General: KNOWN ONLY FROM A SMALL AREA ON THE WESTERN SLOPES OF THE CENTRAL SIERRA NEVADA		
	Micro: DARKLY SHADED CRANNIES W/ HIGH HUMIDITY, I.E. UNDER TREE ROOTS, IN OVERHANGING BANKS, BELOW ROCK OUTCROPS, ALONG STREAMS		

Occurrence No.	1	Map Index:	60297	EO Index:	60333	Element Last Seen:	1979-06-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1979-06-XX	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2005-03-01	

Quad Summary: Riverton (3812074)
County Summary: El Dorado

Lat/Long:	38.76763 / -120.47802	Accuracy:	specific area
UTM:	Zone-10 N4294011 E719110	Elevation (ft):	3040
PLSS:	T11N, R13E, Sec. 25 (M)	Acres:	123.7

Location: AMERICAN RIVER, 11.4 MILES WEST OF KYBURZ.
Detailed Location: MAPPED 11.4 ROAD MILES WEST OF KYBURZ.
Ecological: TYPE LOCALITY IS ROCKY WITH FORESTED SLOPES WITH SANDY BUT HUMOUS SOIL; FOREST IS DOMINATED BY PONDEROSA PINE, INCENSE CEDAR, AND DOUGLAS-FIR; HERB-GRASS-FERN STRATUM IS WELL-DEVELOPED.
General: HOLOTYPE MALE, ALLOTYPE FEMALE, 15 MALE AND 8 FEMALE PARATYPES, AND 211 MALE AND 156 PARATOPOTYPES.
Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Cosumnoperla hypocrena

Element Code: IIPLE23020

Cosumnes stripetail

Listing Status: **Federal:** None
State: None
Other:

CNDDB Element Ranks: **Global:** G2
State: S2

Habitat: **General:** FOUND IN INTERMITTENT STREAMS ON WESTERN SLOPE OF CENTRAL SIERRA NEVADA FOOTHILLS IN AMERICAN AND COSUMNES RIVER BASINS.

Micro:

Occurrence No.	1	Map Index:	66151	EO Index:	66230	Element Last Seen:	1985-06-24
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1985-06-24	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2012-11-06	

Quad Summary: Sly Park (3812065)

County Summary: El Dorado

Lat/Long:	38.64662 / -120.61761	Accuracy:	nonspecific area
UTM:	Zone-10 N4280256 E707330	Elevation (ft):	2200
PLSS:	T09N, R12E, Sec. 11, E (M)	Acres:	45.0

Location: UNNAMED TRIBUTARY 500 M UPSTREAM FROM SWEENEYS CROSSING BRIDGE ON NORTH FORK COSUMNES RIVER. 5.8 KM EAST OF SOMERSET.

Detailed Location:

Ecological: SHALLOW SPRING WATER FLOWING OVER HEAVILY SHADED, MOSS COVERED ROCKS. THE STREAM FLOWS ONLY ABOUT 7 MONTHS OUT OF THE YEAR, FROM NOVEMBER TO JUNE, THEN IS DRY IN SUMMER AND AUTUMN.

General: TYPE LOCALITY. COLLECTIONS IN 1983, 1984 & 1985. 11 F, 6 M, 6 NYMPHS, 2 LAB-REARED M & 9 LAB-REARED F COLLECTED. INTENSIVE COLLECTING ALONG THE COSUMNES RIVER, ITS NORTH FORK, & A FEW SMALLER TRIBUTARIES FAILED TO YIELD MORE INDIVIDUALS.

Owner/Manager: UNKNOWN

Occurrence No.	2	Map Index:	87171	EO Index:	88134	Element Last Seen:	1988-04-06
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1988-04-06	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2012-11-06	

Quad Summary: Camino (3812066)

County Summary: El Dorado

Lat/Long:	38.64914 / -120.63051	Accuracy:	nonspecific area
UTM:	Zone-10 N4280506 E706200	Elevation (ft):	2090
PLSS:	T09N, R12E, Sec. 11, W (M)	Acres:	42.0

Location: JACKASS CANYON CREEK ABOUT 5 KM EAST OF SOMERSET.

Detailed Location: COLLECTION AT "JACKASS CANYON CREEK (637 M), 5 KM E. OF SOMERSET." MAPPED TO GENERAL AREA OF STREAM AT THAT APPROXIMATE ELEVATION.

Ecological: WITHIN THE SACRAMENTO-SAN JOAQUIN FOOTHILL/VALLEY EPHEMERAL STREAM COMMUNITY OCCURRENCE.

General: 127 LARVAE COLLECTED 6 APR 1988 BY R.L. BOTTORFF.

Owner/Manager: UNKNOWN



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	6	Map Index: 87178	EO Index: 88140	Element Last Seen: 1988-01-14
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1988-01-14
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2012-11-06

Quad Summary: Camino (3812066)

County Summary: El Dorado

Lat/Long:	38.68963 / -120.67266	Accuracy:	nonspecific area
UTM:	Zone-10 N4284906 E702417	Elevation (ft):	2457
PLSS:	T10N, R12E, Sec. 29, E (M)	Acres:	27.0

Location: UNNAMED TRIBUTARY TO CLEAR CREEK, ABOUT 1 KM NW OF PLEASANT VALLEY.

Detailed Location: COLLECTION AT "UNNAMED TRIBUTARY TO CLEAR CREEK (749 M), 1 KM NW OF PLEASANT VALLEY." MAPPED TO GENERAL AREA DESCRIBED.

Ecological:

General: 11 LARVAE COLLECTED 14 JAN 1988 BY R.L.BOTORFF.

Owner/Manager: UNKNOWN

Occurrence No.	7	Map Index: 87218	EO Index: 88184	Element Last Seen: 1988-01-14
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1988-01-14
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2012-11-08

Quad Summary: Camino (3812066)

County Summary: El Dorado

Lat/Long:	38.68579 / -120.72973	Accuracy:	nonspecific area
UTM:	Zone-10 N4284355 E697464	Elevation (ft):	2405
PLSS:	T10N, R11E, Sec. 26, SE (M)	Acres:	35.0

Location: MILLS CREEK ABOUT 1 KM NE OF INTERSECTION OF PLEASANT VALLEY RD & BUCKS BAR RD, ABOUT 6 KM W OF PLEASANT VALLEY.

Detailed Location: COLLECTION AT "MILLS CREEK (733 M), 6 KM W OF PLEASEANT VALLEY." MAPPED TO GENERAL AREA DESCRIBED.

Ecological:

General: 4 LARVAE COLLECTED 14 JAN 1988 BY R.L. BOTORFF.

Owner/Manager: UNKNOWN



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	8	Map Index: 87219	EO Index: 88185	Element Last Seen: 1989-02-16
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1989-02-16
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2012-11-08

Quad Summary: Placerville (3812067)

County Summary: El Dorado

Lat/Long:	38.63700 / -120.83654	Accuracy:	nonspecific area
------------------	-----------------------	------------------	------------------

UTM:	Zone-10 N4278715 E688300	Elevation (ft):	1263
-------------	--------------------------	------------------------	------

PLSS:	T09N, R10E, Sec. 14, E (M)	Acres:	39.0
--------------	----------------------------	---------------	------

Location: UNNAMED TRIBUTARY TO NORTH FORK COSUMNES RIVER, ALONG UNION MINE RD, ABOUT 5 KM SOUTH OF EL DORADO.

Detailed Location: LOCATION STATED AS "UNNAMED TRIBUTARY TO NORTH COSUMNES RIVER (385 M), 5 KM N OF EL DORADO." HOWEVER, N COSUMNES RIV IS 8 KM S OF EL DORADO, SO THERE MUST BE A TYPO & IS 5 KM SOUTH OF EL DORADO. MAPPED TO GENERAL DESCRIPTION & ELEVATION.

Ecological:

General: 1 MALE, 4 FEMALE, & 21 LARVAE COLLECTED 1 MAY 1987; 3 MALE, 3 FEMALE, 2 LARVAE COLLECTED 12 MAY 1987; 3 LARVAE COLLECTED 16 FEB 1989.

Owner/Manager: BLM, OTHER

Occurrence No.	9	Map Index: 87220	EO Index: 88186	Element Last Seen: 1988-03-17
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1988-03-17
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2012-11-08

Quad Summary: Placerville (3812067)

County Summary: El Dorado

Lat/Long:	38.69964 / -120.79037	Accuracy:	nonspecific area
------------------	-----------------------	------------------	------------------

UTM:	Zone-10 N4285763 E692151	Elevation (ft):	1742
-------------	--------------------------	------------------------	------

PLSS:	T10N, R11E, Sec. 20, S (M)	Acres:	49.0
--------------	----------------------------	---------------	------

Location: RINGGOLD CREEK, ABOUT 2 KM NE OF DIAMOND SPRINGS.

Detailed Location: COLLECTION AT "RINGGOLD CREEK (531 M), 2 KM NE OF DIAMOND SPRINGS." MAPPED TO GENERAL AREA DESCRIBED.

Ecological:

General: 2 LARVAE COLLECTED 22 FEB 1988 & 1 LARVA COLLECTED 17 MAR 1988.

Owner/Manager: UNKNOWN



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	12	Map Index: 87223	EO Index: 88189	Element Last Seen: 1998-06-12
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1998-06-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2012-11-08

Quad Summary: Old Iron Mountain (3812064)
County Summary: El Dorado

Lat/Long:	38.64886 / -120.47009	Accuracy:	nonspecific area
UTM:	Zone-10 N4280848 E720163	Elevation (ft):	4820
PLSS:	T09N, R14E, Sec. 07 (M)	Acres:	39.0

Location: LONG CANYON CREEK, ABOUT 5 KM NE OF GRIZZLY FLAT.
Detailed Location: COLLECTION AT "LONG CANYON CREEK (1469 M), 5 KM NE OF GRIZZLY FLAT." MAPPED TO GENERAL AREA DESCRIBED. NEAR CENTER OF SEC 7.

Ecological:
General: 7 LARVAE COLLECTED 12 JUN 1998 BY R.L. BOTORFF.
Owner/Manager: USFS-ELDORADO NF

<i>Rhyacophila spinata</i>		Element Code: IITRI19080
spiny rhyacophilan caddisfly		
Listing Status:	Federal: None	CNDDDB Element Ranks: Global: G1G2
	State: None	State: S1S2
Other:		
Habitat:	General: RHYACOPHILIDS GENERALLY PREFER COOL, RUNNING WATER.	
	Micro: <input type="checkbox"/>	

Occurrence No.	5	Map Index: 67287	EO Index: 67449	Element Last Seen: 1979-08-10
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1979-08-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2006-11-30

Quad Summary: Kyburz (3812073)
County Summary: El Dorado

Lat/Long:	38.77468 / -120.29714	Accuracy:	80 meters
UTM:	Zone-10 N4295243 E734803	Elevation (ft):	4000
PLSS:	T11N, R15E, Sec. 28, NE (M)	Acres:	0.0

Location: UNNAMED CREEK AT KYBURZ, HWY 50.
Detailed Location:
Ecological:
General: 2 MALES COLLECTED BY D.G. DENNING, IN THE COLLECTIONS OF THE CALIFORNIA ACADEMY OF SCIENCES.
Owner/Manager: UNKNOWN



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



<i>Margaritifera falcata</i>		Element Code: IMBIV27020	
western pearlshell			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G4G5
	State: None		State: S1S2
	Other:		
Habitat:	General: AQUATIC.		
	Micro: PREFERS LOWER VELOCITY WATERS.		
Occurrence No.	14	Map Index: 85489	EO Index: 86504
Occ. Rank:	Unknown	Presence: Presumed Extant	Element Last Seen: 2006-07-25
Occ. Type:	Natural/Native occurrence	Trend: Unknown	Site Last Seen: 2006-07-25
			Record Last Updated: 2013-01-25
Quad Summary:	Kyburz (3812073)		
County Summary:	El Dorado		
Lat/Long:	38.75286 / -120.26657	Accuracy:	1/5 mile
UTM:	Zone-10 N4292900 E737532	Elevation (ft):	4750
PLSS:	T10N, R15E, Sec. 01, SW (M)	Acres:	0.0
Location:	SILVER FORK AMERICAN RIVER, TRIBUTARY TO THE SOUTH FORK AMERICAN RIVER AT CHINA FLAT CAMPGROUND, EL DORADO NF.		
Detailed Location:	CAS SPECIMEN COLLECTED AT "SILVER FORK OF SOUTH FORK, AMERICAN RIVER, ABOVE THE LUMBER MILL." MAPPED TO 2006 SURVEY AT "SILVER CREEK RD OFF HWY 50 TO FS RD 11N40. UNDER BRIDGE AT PARKING LOT FOR SCENIC AREA WALK." FIELD NUMBER: JKH06-029.		
Ecological:			
General:	ORIGINAL CAS COLLECTION NOT IN CAS ONLINE DATABASE, BUT CITED IN HOW10D0001 AND WES08R0001; COLLECTED BY A.G. SMITH ON AUG 1951. 20 MARGARITIFERA FOUND ON 25 JUL 2006.		
Owner/Manager:	USFS-ELDORADO NF		



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



<i>Monadenia mormonum buttoni</i>		Element Code: IMGASC7071	
Button's Sierra sideband			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G2T1
	State: None		State: S1S2
	Other:		
Habitat:	General: KNOWN FROM THE CENTRAL SIERRA NEVADA COUNTIES.		
	Micro: <input type="checkbox"/>		

Occurrence No.	3	Map Index:	13484	EO Index:	23074	Element Last Seen:	XXXX-XX-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		Record Last Updated:	2005-11-29
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				
Quad Summary:	Riverton (3812074)						
County Summary:	El Dorado						
Lat/Long:	38.77129 / -120.44714		Accuracy:	1/5 mile			
UTM:	Zone-10 N4294492 E721782		Elevation (ft):	3400			
PLSS:	T11N, R14E, Sec. 30, NE (M)		Acres:	0.0			
Location:	RIVERTON.						
Detailed Location:	RARE WITH A LIMITED DISTRIBUTION.						
Ecological:							
General:	SPECIMEN(S) DEPOSITED AT CAS.						
Owner/Manager:	PVT						



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Packera layneae		Element Code: PDAST8H1V0	
Layne's ragwort			
Listing Status:	Federal: Threatened	CNDDB Element Ranks:	Global: G2
	State: Rare		State: S2
	Other: Rare Plant Rank - 1B.2, SB_RSABG-Rancho Santa Ana Botanic Garden		
Habitat:	General: CHAPARRAL, CISMONTANE WOODLAND.		
	Micro: ULTRAMAFIC SOIL (SERPENTINE OR GABBRO); OCCASIONALLY ALONG STREAMS. 205-1060 M.		

Occurrence No.	14	Map Index: 12636	EO Index: 15171	Element Last Seen:	2016-06-13
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-06-13
Occ. Type:	Natural/Native occurrence		Trend: Decreasing	Record Last Updated:	2017-08-17

Quad Summary: Garden Valley (3812077), Georgetown (3812087)
County Summary: El Dorado

Lat/Long:	38.87563 / -120.82122	Accuracy:	specific area
UTM:	Zone-10 N4305232 E689004	Elevation (ft):	2300
PLSS:	T12N, R10E, Sec. 24, W (M)	Acres:	47.0

Location: ALONG BEAR CREEK ROAD, 1.7 MILES EAST OF BALD HILL, SOUTH OF GEORGETOWN.
Detailed Location: PART OF SOUTH POLYGON IS WITHIN THE TRAVERSE CREEK BOTANICAL AREA. MAPPED BY CNDDDB AS 5 POLYGONS BASED ON MAPS AND USFS DIGITAL DATA.
Ecological: ON SERPENTINE-DERIVED SOIL WITHIN SERPENTINE CHAPARRAL COMMUNITY. ASSOCIATES INCLUDE CEANOTHUS CUNEATUS, QUERCUS DUMOSA, PINUS SABINIANA, ERIOPHYLLUM LANATUM, CHLOROGALUM POMERIDIANUM, PRUNUS SP., CASTILLEJA APPLIGATEI, ETC.
General: NW POLYGON: 10-20 IN 1982, ~70 PLANTS IN 1984, NONE SEEN IN 1990. S POLYGON: APPROX 10 IN 1979, <1000 IN 1983, 102 IN 1990, 108 IN 1992. 20-200 PLANTS OBSERVED IN 2007. 379 IN NE THREE POLYGONS IN 2016. INCLUDES FORMER OCCURRENCE #17.
Owner/Manager: USFS-ELDORADO NF, PVT

Occurrence No.	15	Map Index: 12685	EO Index: 16866	Element Last Seen:	1978-07-XX
Occ. Rank:	None		Presence: Possibly Extirpated	Site Last Seen:	1983-11-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-08-16

Quad Summary: Placerville (3812067)
County Summary: El Dorado

Lat/Long:	38.70406 / -120.78410	Accuracy:	1/5 mile
UTM:	Zone-10 N4286267 E692685	Elevation (ft):	1760
PLSS:	T10N, R11E, Sec. 20, SE (M)	Acres:	0.0

Location: WEBER CREEK, NEAR PLACERVILLE.
Detailed Location:
Ecological: SITE CONTAINS MIXED CHAPARRAL AND IS SURROUNDED BY FOOTHILL WOODLAND. ASSOCIATES INCLUDE CEANOTHUS CUNEATUS, PINUS SABINIANA, AND QUERCUS SP.
General: SMALL COLONY OF ABOUT 25 PLANTS SEEN IN 1978. SURVEY IN 1983 REVEALED THAT SITE HAD RECENTLY BEEN GRADED AND THE POPULATION MAY HAVE BEEN EXTIRPATED; NO PLANTS FOUND IN 1983. 1907 AND 1977 COLLECTIONS FROM "WEBER CREEK" ATTRIBUTED HERE.
Owner/Manager: PVT



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



<i>Calystegia vanzuukiae</i>		Element Code: PDCON040Q0	
Van Zuuk's morning-glory			
Listing Status:	Federal: None	CNDDB Element Ranks:	Global: G2Q
	State: None		State: S2
	Other: Rare Plant Rank - 1B.3		
Habitat:	General: CHAPARRAL, CISMONTANE WOODLAND.		
	Micro: GABBRO, SERPENTINITE. 700-1160 M.		
Occurrence No.	1	Map Index: 94350	EO Index: 95473
Occ. Rank:	Good	Presence: Presumed Extant	Element Last Seen: 2017-08-14
Occ. Type:	Natural/Native occurrence	Trend: Unknown	Site Last Seen: 2017-08-14
			Record Last Updated: 2018-04-06
Quad Summary:	Garden Valley (3812077), Georgetown (3812087)		
County Summary:	El Dorado		
Lat/Long:	38.87309 / -120.81862	Accuracy:	specific area
UTM:	Zone-10 N4304955 E689236	Elevation (ft):	2300
PLSS:	T12N, R10E, Sec. 24, W (M)	Acres:	17.0
Location:	TRAVERSE CREEK BOTANICAL SPECIAL INTEREST AREA; NEAR THE JUNCTION OF BEAR CREEK ROAD AND MEADOWBROOK ROAD, ELDORADO NF.		
Detailed Location:	MAPPED BY CNDDDB AS MANY POLYGONS ACCORDING TO 2014 COORDINATES FROM NOSAL, LAZAR, AND AYERS, AS WELL AS USFS DIGITAL DATA.		
Ecological:	LARGE AREA OF SERPENTINE HABITAT. CEANOTHUS CUNEATUS/QUERCUS DURATA CHAPARRAL WITH UMBELLULARIA, PINUS SABINIANA, FRANGULA TOMENTOSA, ELYMUS ELYMOIDES, ERIOGONUM, BRODIAEA, CHLOROGALUM POMERIDIANUM AND MANY ANNUAL HERBS.		
General:	THOUSANDS OF PLANTS OBSERVED IN 2014. UNKNOWN NUMBER OF PLANTS OBSERVED IN 2016. 100 PLANTS OBSERVED IN A SMALL PORTION OF SITE IN 2017.		
Owner/Manager:	USFS-ELDORADO NF, PVT		



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



<i>Viburnum ellipticum</i>		Element Code: PDCPR07080	
oval-leaved viburnum			
Listing Status:	Federal: None	CNDDB Element Ranks:	Global: G4G5
	State: None		State: S3?
	Other: Rare Plant Rank - 2B.3		
Habitat:	General: CHAPARRAL, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.		
	Micro: 215-1400 M.		

Occurrence No.	5	Map Index:	49957	EO Index:	49957	Element Last Seen:	1901-09-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1901-09-XX	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2003-01-23		

Quad Summary: Placerville (3812067)
County Summary: El Dorado

Lat/Long:	38.72955 / -120.79770	Accuracy:	1 mile
UTM:	Zone-10 N4289067 E691435	Elevation (ft):	
PLSS:	T10N, R11E, Sec. 07 (M)	Acres:	0.0

Location: PLACERVILLE.
Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB AS BEST GUESS IN VICINITY OF PLACERVILLE.
Ecological:
General: SITE BASED ON A 1900 & A 1901 IRWIN COLLECTION. NEEDS FIELDWORK.
Owner/Manager: UNKNOWN

<i>Arctostaphylos nissenana</i>		Element Code: PDERI040V0	
Nissenan manzanita			
Listing Status:	Federal: None	CNDDB Element Ranks:	Global: G1
	State: None		State: S1
	Other: Rare Plant Rank - 1B.2, BLM_S-Sensitive, USFS_S-Sensitive		
Habitat:	General: CLOSED-CONE CONIFEROUS FOREST, CHAPARRAL.		
	Micro: USUALLY ON METAMORPHICS, ASSOCIATED W/ OTHER CHAPARRAL SPECIES. 485-1005 M.		



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	1	Map Index: 12635	EO Index: 24345	Element Last Seen:	2005-01-20
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2005-01-20
Occ. Type:	Natural/Native occurrence		Trend: Decreasing	Record Last Updated:	2017-03-03

Quad Summary: Placerville (3812067)

County Summary: El Dorado

Lat/Long:	38.66928 / -120.81286	Accuracy:	specific area
UTM:	Zone-10 N4282348 E690277	Elevation (ft):	1600
PLSS:	T09N, R11E, Sec. 6 (M)	Acres:	378.0

Location: SOUTH OF DIAMOND SPRINGS NEAR MARTINEZ CREEK.

Detailed Location: MAPPED AS 6 POLYGONS BY CNDDDB ACCORDING TO WIESLANDER VEGETATION TYPE MAPS FROM THE 1930S AND TWO 1992 CLARK MAPS. IN JANUARY 2005, GRABER NOTES THAT MORE THAN 95% OF THE POP NEAR FOWLER LANE WAS DEAD WITH NO REPRODUCTION VISIBLE.

Ecological: GROWING ON SOUTH FACING SLOPES, OFTEN IN PURE STANDS. OCCASIONALLY ASSOCIATED WITH ADENOSTOMA FASCICULATUM, DENDROMECON RIGIDA, ARCTOSTAPHYLOS VISCIDA, AND QUERCUS WISLIZENI. SOME INTERMEDIATES WITH A. VISCIDA ALSO IN THE AREA.

General: 4 S POLYGONS BASED ON 1930S MAP DATA. N POLYS: 1000S IN 1978 & 1992, 2300 IN 2004, UNK # IN 2005. IN 2004, PLANTS AT NE COLONY APPEAR HEALTHY BUT OTHER SITES UNHEALTHY WITH >50% DEAD; LOOKS SIMILAR TO PHYTOPHTHORA. INCLUDES FORMER OCC #13.

Owner/Manager: PVT

Occurrence No.	2	Map Index: 12666	EO Index: 20113	Element Last Seen:	1938-04-12
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1938-04-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-12-09

Quad Summary: Placerville (3812067)

County Summary: El Dorado

Lat/Long:	38.69160 / -120.78723	Accuracy:	nonspecific area
UTM:	Zone-10 N4284878 E692446	Elevation (ft):	1800
PLSS:	T10N, R11E, Sec. 29 (M)	Acres:	607.6

Location: 1-2 MILES SE OF DIAMOND SPRINGS, HEAD OF MARTINEZ CREEK.

Detailed Location: MAPPED ACCORDING TO T-R-S ON A JEPSON COLLECTION LABEL IN SECTION 29. A 1935 JENSEN COLLECTION FROM "1 MI SE OF DIAMOND SPRINGS" IN SECTION 32 ALSO ATTRIBUTED TO THIS SITE BUT MAY BE TO THE SOUTH OF THE MAPPED AREA.

Ecological:

General: UNKNOWN NUMBER OF PLANTS IN 1935 & 1938. NEEDS FIELDWORK. SITE MAY ACTUALLY BE REFERENCING EO #1 TO THE SW; NOTE ON JEPSON COLLECTION LABEL INDICATES COLLECTION WAS LIKELY AT SAME SITE AS WIESLANDER TYPE MAP PROJECT WHICH IS CNDDDB EO #1.

Owner/Manager: UNKNOWN



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	3	Map Index: 12688	EO Index: 24343	Element Last Seen:	1992-03-27
Occ. Rank:	Poor		Presence: Presumed Extant	Site Last Seen:	2004-06-21
Occ. Type:	Natural/Native occurrence		Trend: Decreasing	Record Last Updated:	2017-03-03
Quad Summary:	Placerville (3812067)				
County Summary:	El Dorado				
Lat/Long:	38.72688 / -120.78397		Accuracy:	nonspecific area	
UTM:	Zone-10 N4288800 E692635		Elevation (ft):	2100	
PLSS:	T10N, R11E, Sec. 17, NE (M)		Acres:	39.1	
Location:	SPANISH RAVINE, PLACERVILLE.				
Detailed Location:	3 BLOCKS S ON SPANISH RAVINE RD THEN LEFT ON DIRT ROAD, UPHILL 100 YARDS. LOCATED ON FLAT SLATE ROCK ABOUT HALF WAY UP THE SLOPE. EXACT LOCATION UNK; MAPPED AS BEST GUESS ALONG THE E SIDE OF SPANISH RAVINE; NO MAP PROVIDED W/ ORIGINAL DATA.				
Ecological:	IN CLEARING IN CHAPARRAL SURROUNDED BY ARCTOSTAPHYLOS VISCIDA WITH QUERCUS AND PINUS. RED SEDIMENTARY SOILS.				
General:	12 PLANTS IN 1944, 5 IN 1956, 8 IN 1992. NO REPRODUCTION OBSERVED BY MATURE PLANTS IN 1992. NO PLANTS SEEN IN 2004; VEGETATION WAS VERY DENSE, A. NISSENANA MAY HAVE BEEN SHADED OUT. HISTORIC COLLECTIONS FROM "PLACERVILLE" ALSO ATTRIB HERE.				
Owner/Manager:	PVT				
Occurrence No.	4	Map Index: 24162	EO Index: 16478	Element Last Seen:	1945-02-19
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1945-02-19
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1993-10-14
Quad Summary:	Camino (3812066), Slate Mtn. (3812076)				
County Summary:	El Dorado				
Lat/Long:	38.74106 / -120.72845		Accuracy:	1 mile	
UTM:	Zone-10 N4290492 E697424		Elevation (ft):	2600	
PLSS:	T10N, R11E, Sec. 02 (M)		Acres:	0.0	
Location:	FRUIT RIDGE, 3 MILES EAST OF PLACERVILLE.				
Detailed Location:	SOURCE DOCUMENT GIVES 2500 FT ELEVATION.				
Ecological:	IN DENSE STAND OF ARCTOSTAPHYLOS VISCIDA.				
General:	1 PLANT IN 1945. COLLECTION AT UC INDICATES SPECIMEN IS A HYBRID BETWEEN ARCTOSTAPHYLOS VISCIDA AND A. NISSENANA.				
Owner/Manager:	UNKNOWN				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	5	Map Index: 13126	EO Index: 14036	Element Last Seen:	2015-06-18
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-06-18
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-03-02
Quad Summary:	Pollock Pines (3812075), Slate Mtn. (3812076)				
County Summary:	El Dorado				
Lat/Long:	38.79704 / -120.63775		Accuracy:	specific area	
UTM:	Zone-10 N4296905 E705147		Elevation (ft):	2900	
PLSS:	T11N, R12E, Sec. 16, S (M)		Acres:	167.0	
Location:	POHO RIDGE EXTENDING SOUTH TO SOUTH FORK AMERICAN RIVER.				
Detailed Location:	MAPPED BY CNDDDB ACCORDING TO WIESLANDER VEGETATION TYPE MAPS FROM THE 1930S (SE POLYGON AND PART OF WESTERN POLYGON) AND USFS DIGITAL DATA.				
Ecological:	METAMORPHIC DERIVED SOILS. ASSOCIATES INCL ERIODICTYON CALIFORNICUM, QUERCUS KELLOGGII, Q. CHRYSOLEPIS, PINUS ATTENUATA, P. PONDEROSA, SPRAWLING CEANOTHUS TOMENTOSUS, HAPLOPAPPUS ARBORESCENS, PSEUDOTSUGA MENZIESII, ARCTOSTAPHYLOS VISCIDA.				
General:	IN 1965, THIS POP THOUGHT TO BE LARGEST; SCATTERED COLONIES VISIBLE FOR AT LEAST 1 MILE, THOUSANDS OF SEEDLINGS ALSO SEEN. PURE STANDS SEEN IN 1979 WITH ~5 PLANTS/SQ METER. UNK # SEEN IN 1992. "MONOCULTURE" ON POHO RIDGE IN 2015.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	6	Map Index: 13095	EO Index: 14034	Element Last Seen:	2015-06-11
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2015-06-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-03-03
Quad Summary:	Slate Mtn. (3812076)				
County Summary:	El Dorado				
Lat/Long:	38.80027 / -120.65563		Accuracy:	specific area	
UTM:	Zone-10 N4297223 E703584		Elevation (ft):	3000	
PLSS:	T11N, R12E, Sec. 17 (M)		Acres:	108.0	
Location:	RIDGE WNW OF POHO RIDGE, BETWEEN BRUSH CREEK & SLAB CREEK.				
Detailed Location:	MAPPED BY CNDDDB AS 3 POLYGONS IN SECTIONS 16 & 17 ACCORDING TO A 1979 BAAD MAP.				
Ecological:	METAMORPHIC DERIVED SOILS. AREA BURNED IN THE KING FIRE.				
General:	"2 SMALL POPULATIONS" SEEN IN 1965. PURE STANDS SEEN IN 1979. IN 2015, NO PLANTS OBSERVED IN THE MIDDLE PORTION OF SITE BUT HUNDREDS OF PLANTS AND NUMEROUS SEEDLINGS OBSERVED AT NE AND SW ENDS OF SITE.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	7	Map Index: 13037	EO Index: 20110	Element Last Seen:	2015-08-06
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-08-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-03-02

Quad Summary: Slate Mtn. (3812076)

County Summary: El Dorado

Lat/Long:	38.81682 / -120.67959	Accuracy:	specific area
UTM:	Zone-10 N4299007 E701457	Elevation (ft):	3300
PLSS:	T11N, R12E, Sec. 07 (M)	Acres:	64.0

Location: RIDGE SW OF DARK CANYON, 0.5 AIR MILE SE OF SLATE MTN LOOKOUT.

Detailed Location: MAPPED BY CNDDDB AS 2 POLYGONS IN SECTIONS 7 & 8 ACCORDING TO A 1979 BAAD MAP. TAYLOR & HELKAMP REPORT "SLATE KNOLL WITH ABOUT 2 ACRES OF THIS PLANT" IN 2009. IN 2015, OBSERVED IN A SMALL PART OF THE NW PORTION OF N POLYGON.

Ecological: IN CHAPARRAL ON EXPOSED WEATHERED SHALE. ASSOCIATED WITH QUERCUS CHRYSOLEPIS, Q. KELLOGGII, PSEUDOTSUGA MENZIESII, PINUS LAMBERTIANA, P. PONDEROSA, ARCTOSTAPHYLOS VISCIDA, AND CALYPTRIDIMUM UMBELLATUM. SOUTH-FACING SLOPE.

General: IN 1965, A. NISSENANA CONSTITUTED "CLOSE TO 100% OF THE CHAPARRAL OVER SOME 10 ACRES"; LOCATED IN A "CORRAL" FORMED BY TALLER A. VISCIDA. UNKNOWN NUMBER IN 1979 & 2004. LOCALLY COMMON IN 2009. IN 2015, ~100 PLANTS IN N POLY, NONE IN S POLY.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	8	Map Index: 12630	EO Index: 8052	Element Last Seen:	1966-02-09
Occ. Rank:	None		Presence: Possibly Extirpated	Site Last Seen:	1966-02-09
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-03-03

Quad Summary: Garden Valley (3812077)

County Summary: El Dorado

Lat/Long:	38.83577 / -120.82518	Accuracy:	1/5 mile
UTM:	Zone-10 N4300799 E688766	Elevation (ft):	2300
PLSS:	T11N, R10E, Sec. 2, NE (M)	Acres:	70.0

Location: ASHCRAFT RANCH, ABOUT 0.5 AIR MILE NORTH OF FOSTER MOUNTAIN, NEAR AMERICAN FLAT.

Detailed Location:

Ecological: ASSOCIATED WITH ERIODICTYON CALIFORNICUM AND SALVIA SONOMENSIS ON SHALE.

General: TYPE LOCALITY. IN 1965, THE POPULATION COVERED ~8 ACRES. UNK # IN 1966. ACCORDING TO DRAKE W/ CDFG TIMBER HARVEST REVIEW (1993), THIS AREA WAS CONVERTED TO GRAZING LAND MANY YEARS AGO. THE STATUS OF THIS POPULATION SHOULD BE FIELD CHECKED.

Owner/Manager: PVT



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	11	Map Index: 13070	EO Index: 20109	Element Last Seen:	1979-06-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1979-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-12-09
Quad Summary:	Slate Mtn. (3812076)				
County Summary:	El Dorado				
Lat/Long:	38.80368 / -120.67262		Accuracy:	1/5 mile	
UTM:	Zone-10 N4297564 E702098		Elevation (ft):	2600	
PLSS:	T11N, R12E, Sec. 17, NW (M)		Acres:	0.0	
Location:	NEAR SLAB CREEK 0.75 AIR MILE NNE OF CABLE POINT.				
Detailed Location:					
Ecological:					
General:	ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1980 SMALL SCALE BAAD MAP; PRESUMABLY SEEN BY BAAD IN 1979. NEEDS FIELDWORK.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	14	Map Index: A3853	EO Index: 105507	Element Last Seen:	2013-03-14
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2013-03-14
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-03-03
Quad Summary:	Placerville (3812067)				
County Summary:	El Dorado				
Lat/Long:	38.69007 / -120.8188		Accuracy:	80 meters	
UTM:	Zone-10 N4284642 E689705		Elevation (ft):	1760	
PLSS:	T10N, R10E, Sec. 25, SE (M)		Acres:	5.0	
Location:	WEST SIDE OF FAITH LANE, ABOUT 0.25 MILE SOUTH OF PLEASANT VALLEY ROAD/HWY 49, DIAMOND SPRINGS.				
Detailed Location:	MAPPED ACCORDING TO 2013 ROBINSON COORDINATES.				
Ecological:	AREA OF CHAPARRAL AND PINE-OAK WOODLAND. ARCTOSTAPHYLOS VISCIDA IS GROWING NEARBY AND SOME PLANTS APPEAR TO BE HYBRIDS.				
General:	ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 2013 ROBINSON COLLECTION.				
Owner/Manager:	UNKNOWN				
Occurrence No.	15	Map Index: A3854	EO Index: 105508	Element Last Seen:	XXXX-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	XXXX-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-03-02
Quad Summary:	Slate Mtn. (3812076)				
County Summary:	El Dorado				
Lat/Long:	38.85808 / -120.73163		Accuracy:	specific area	
UTM:	Zone-10 N4303473 E696825		Elevation (ft):	3000	
PLSS:	T12N, R11E, Sec. 27, SE (M)		Acres:	81.0	
Location:	NW END OF SLATE MOUNTAIN, ABOUT 1 AIR MILE SE OF THE CONFLUENCE OF ROCK CREEK AND BALD MTN CANYON.				
Detailed Location:					
Ecological:	MONTANE CHAPARRAL WITH ARCTOSTAPHYLOS VISCIDA.				
General:	ONLY SOURCE OF INFORMATION FOR THIS SITE IS WIESLANDER'S VEGETATION TYPE MAP DATA. PLANTS OBSERVED SOMETIME IN THE 1930S.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



<i>Phacelia stebbinsii</i>		Element Code: PDHYD0C4D0	
Stebbins' phacelia			
Listing Status:	Federal: None	CNDDB Element Ranks:	Global: G3
	State: None		State: S3
	Other: Rare Plant Rank - 1B.2, USFS_S-Sensitive		
Habitat:	General: LOWER MONTANE CONIFEROUS FOREST, CISMONTANE WOODLAND, MEADOWS AND SEEPS.		
	Micro: AMONG ROCKS AND RUBBLE ON METAMORPHIC ROCK BENCHES. 610-2010 M.		

Occurrence No.	1	Map Index: 13284	EO Index: 4957	Element Last Seen:	1991-06-01
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1991-06-01
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-08-31
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.83985 / -120.54509		Accuracy:	80 meters	
UTM:	Zone-10 N4301868 E713067		Elevation (ft):	4100	
PLSS:	T12N, R13E, Sec. 32, SE (M)		Acres:	0.0	
Location:	IMMEDIATELY N OF JCT OF SUGAR PINE CRK AND UNNAMED CREEK (PINE CRK?), ~0.5 MI W OF SILVER CREEK. NEAR SUGAR PINE FALLS.				
Detailed Location:	SHADY ROCK OUTCROPPING JUST AT WATER'S EDGE AS IT STARTS THE FALLS. MAPPED BY CNDDB BASED ON 1983 TYLER FIELD SURVEY AND MAP IN THE WEST 1/2 OF THE SE 1/4 SECTION 32. THIS IS FS POPULATION #03-8.				
Ecological:	IN JOSEPHINE LOAM ON ROCKY OUTCROP WITH WOOD DUFF IN LOW PLACES NEAR WATER. ASSOCIATED WITH DOUGLAS-FIR, PHACELIA QUICKII, CLAYTONIA, QUERCUS CHRYSOLEPIS, ALNUS, LITHOCARPUS, CORNUS NUTALLII. GROWING IN PIECES OF WOOD & BARK ON ROCKS.				
General:	FEWER THAN 1000 PLANTS SEEN IN 1983 SCATTERED ALL ALONG ROCKY OUTCROPPING. 250 PLANTS SEEN IN 1991. POPULATION MAY EXTEND NE OF MAPPED AREA. 1969 HECKARD COLLECTION FROM "ON SUGAR PINE CREEK NEAR HEAD OF FALLS" ALSO ATTRIBUTED TO THIS SITE.				
Owner/Manager:	USFS-ELDORADO NF				

Occurrence No.	2	Map Index: 13294	EO Index: 4956	Element Last Seen:	2016-06-10
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-06-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-14
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.83323 / -120.53239		Accuracy:	specific area	
UTM:	Zone-10 N4301164 E714190		Elevation (ft):	2985	
PLSS:	T11N, R13E, Sec. 4, NW (M)		Acres:	71.0	
Location:	ALONG JAYBIRD POWERHOUSE RD AND SILVER CREEK IN THE VICINITY OF CAMINO RESERVOIR.				
Detailed Location:	MAPPED AS 9 POLYGONS BY CNDDB BASED PRIMARILY ON USFS FIELD SURVEYS AND DIGITAL DATA. INCLUDES FORMER EO #3.				
Ecological:	ON STEEP ROADCUTS AND TRAILSIDE IN POCKETS OF OAK LITTER ON METAMORPHIC ROCK. ASSOCIATED WITH QUERCUS CHRYSOLEPIS, ERIOPHYLLUM LANATUM, PENSTEMON AZUREUS, SEDUM SPATHULAEFOLIUM, MONTIA PARVIFOLIA, ETC. LEWISIA SERRATA ALSO AT THIS SITE.				
General:	POPULATION NUMBERS ARE FOR PORTIONS OF SITE: <50 PLANTS SEEN IN 1978. ~10 PLANTS/SQ METER OF OCCUPIED HABITAT IN 1979. <100 PLANTS IN N-MOST POLY IN 1982. 5000+ IN 2000, UNKNOWN # SEEN IN 2002, ~165 IN 2015, 775 IN 2016.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	4	Map Index: 13285	EO Index: 5628	Element Last Seen: 1992-06-17
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1992-06-17
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2018-08-31

Quad Summary: Devil Peak (3812085)

County Summary: El Dorado

Lat/Long:	38.91704 / -120.54543	Accuracy:	specific area
UTM:	Zone-10 N4310435 E712806	Elevation (ft):	4000
PLSS:	T12N, R13E, Sec. 05, W (M)	Acres:	10.0

Location: LEONARDI SPRING WATERFALL, EAST OF STUMPY MEADOWS LAKE.

Detailed Location: WITHIN 20 FEET OF FALLS. MAPPED BY CNDDDB ACC TO A 1992 WILLIAMS MAP WHICH SHOWS 2 POPULATIONS AT THIS SITE; OTHER MAPS SHOW ONLY ONE POP AND SOME SHOW THIS POP FURTHER S CO-OCCURRING W/ LEWISIA SERRATA. THIS IS FS POPULATION #03-04 (29C?).

Ecological: FLAT ROCKY AREA IN FULL SUN. ROCKY SLOPES. MIXED CONIFEROUS FOREST. ASSOCIATED W/COLLINSIA TINCTORIA, HEUCHERA MICRANTHA, SEDUM SPATHULIFOLIUM, DENTARIA CA, SMILACINA RACEMOSA, SILENE LEMMONII, MITELLA TRIFIDA, LEWISIA SERRATA (ALSO RARE).

General: ABOUT 100 PLANTS SEEN IN 1979. SEEN IN 1986 DURING A SURVEY FOR LEWISIA STEBBINSII. 1969 AND 1970 COLLECTIONS FROM "NEAR LEONARDI FALLS BOTANICAL AREA" ARE ALSO ATTRIBUTED TO THIS SITE.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	5	Map Index: 13163	EO Index: 4869	Element Last Seen: 1985-06-20
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1985-06-20
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2008-12-12

Quad Summary: Devil Peak (3812085)

County Summary: Placer

Lat/Long:	38.94759 / -120.61992	Accuracy:	specific area
UTM:	Zone-10 N4313654 E706259	Elevation (ft):	2700
PLSS:	T13N, R12E, Sec. 27, SE (M)	Acres:	1.0

Location: SOUTH SIDE OF INNER GORGE OF BIG GRIZZLY CANYON, 0.35 MILE UPSTREAM FROM JUNCTION WITH RUBICON RIVER.

Detailed Location: ON SOUTHEAST SIDE OF CREEK.

Ecological: IN SPARSELY VEGETATED OPENINGS OF CANYON LIVE OAK FOREST ON SLOPE AND BENCHES OF METAMORPHIC BEDROCK OUTCROP AND ASSOCIATED TALUS AND SCREE. WITH DIPLACUS GRANDIFLORUS, AESCULUS CALIFORNICA, KECKIELLA BREVIFLORA, VULPIA MYUROS HIRSUTA, ETC.

General: <10,000 PLANTS SEEN IN 1985 BETWEEN THIS AND A PORTION OF EO #6.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	6	Map Index:	13182	EO Index:	4870	Element Last Seen:	1985-06-20
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		1985-06-20	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2008-12-12	

Quad Summary: Devil Peak (3812085)

County Summary: Placer

Lat/Long:	38.95355 / -120.60985	Accuracy:	specific area
UTM:	Zone-10 N4314339 E707114	Elevation (ft):	3650
PLSS:	T13N, R12E, Sec. 26, NW (M)	Acres:	5.0

Location: INNER GORGE OF BIG GRIZZLY CANYON CREEK, 0.9-1.3 MILE UPSTREAM FROM JUNCTION WITH RUBICON RIVER.

Detailed Location: BOTH SIDES OF CREEK. SEVERAL SUBPOPS; PLANTS EXTEND TO 0.15 MI SE OF CREEK IN WESTERNMOST PART OF OCCURRENCE. IN 1984 JOKERST MENTIONS THAT THE PREFERRED PHACELIA HABITAT IS COMMON W/IN THIS GORGE & MORE PLANTS ARE LIKELY IN THIS AREA.

Ecological: IN SPARSELY VEGETATED OPENINGS & MOSS-COVERED EXPOSURES IN Q. CHRYSOLEPIS FOREST ON SLOPES & BENCHES OF METAMORPHIC BEDROCK OUTCROP & ASSOCIATED TALUS & SCREE. W/POISON OAK, HEUCHERA MICRANTHA, POLYSTICHUM MUNITUM, MELICA GEYERI.

General: <2000 PLANTS SEEN IN 1984. <10,000 PLANTS SEEN IN 1985 BETWEEN A PORTION OF THIS EO AND EO #5. INCLUDES FORMER EO #S 7-9.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	10	Map Index:	13212	EO Index:	13719	Element Last Seen:	1985-09-02
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		1985-09-02	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2008-12-19	

Quad Summary: Devil Peak (3812085)

County Summary: Placer

Lat/Long:	38.98272 / -120.59539	Accuracy:	specific area
UTM:	Zone-10 N4317609 E708282	Elevation (ft):	4040
PLSS:	T13N, R12E, Sec. 13, N (M)	Acres:	83.0

Location: SCATTERED ALONG LONG CANYON IN THE VICINITY OF ITS INTERSECTION WITH WALLACE CANYON.

Detailed Location: MAPPED BY CNDDDB AS 4 POLYS ACC TO 1984 & 1985 JOKERST MAPS. JOKERST MENTIONS THAT "PHACELIA STEBBINSII IS COMMON ON NEARLY ALL BEDROCK OUTCROPS, ALL SUITABLE HABITAT WAS NOT SEARCHED & ALL OCCURRENCES WERE NOT MAPPED."

Ecological: PLANTS IN OPENINGS IN RIPARIAN AND CANYON LIVE OAK WOODLAND ON MOSS-COVERED BEDROCK OUTCROPS AND ASSOCIATED TALUS AND SCREE. ASSOCIATED WITH SEDUM SPATHULIFOLIUM, POA SCABRELLA, MELICA CALIFORNICA AND THE RARE LEWISA SERRATA. 2800-3400 FT.

General: 10,000+ PLANTS SEEN IN 1984 & 1985 THROUGHOUT LONG CANYON. NEED BETTER MAP DETAIL; UNSURE IF PHACELIA STEBBINSII IS CONTINUOUS THROUGHOUT THIS CANYON. NEEDS FIELDWORK. INCLUDES FORMER OCCURRENCES #15 AND 16.

Owner/Manager: USFS-ELDORADO NF, PVT



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	11	Map Index: 13238	EO Index: 18273	Element Last Seen: 1984-06-22
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1984-06-22
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2008-12-19

Quad Summary: Devil Peak (3812085)

County Summary: Placer

Lat/Long:	38.97722 / -120.58534	Accuracy:	specific area
UTM:	Zone-10 N4317022 E709169	Elevation (ft):	3500
PLSS:	T13N, R12E, Sec. 13, SE (M)	Acres:	6.0

Location: SCATTERED ALONG WALLACE CANYON, FROM 0.75-1.0 MILE DOWNSTREAM FROM JUNCTION WITH LONG CANYON.

Detailed Location: PLANTS EXTEND TO ABOUT 500 FEET ABOVE THE CREEKBED. IN 1984 JOKERST NOTES THAT THERE IS LIKELY MORE HABITAT IN THIS AREA WHICH CONTAINS PHACELIA STEBBINSII.

Ecological: FOUND IN THE CONTACT ZONE BETWEEN DECIDUOUS RIPARIAN AND THE CANYON LIVE OAK FOREST ON METAMORPHIC BEDROCK OUTCROPS AND ASSOCIATED SCREE. BEDROCK PARTIALLY MOSS AND SELAGINELLA-COVERED. WITH POA SCABRELLA, MELICA AND COLLINSIA TINCTORIA.

General: 10,000+ PLANTS SEEN IN 1984 BETWEEN THIS SITE AND A PORTION OF EO #10.

Owner/Manager: USFS-ELDORADO NF, PVT

Occurrence No.	12	Map Index: 13265	EO Index: 18272	Element Last Seen: 2012-06-05
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 2012-06-05
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2018-08-31

Quad Summary: Devil Peak (3812085)

County Summary: Placer

Lat/Long:	38.99647 / -120.55952	Accuracy:	specific area
UTM:	Zone-10 N4319219 E711348	Elevation (ft):	3700
PLSS:	T13N, R13E, Sec. 08, NE (M)	Acres:	26.0

Location: ALONG INNER GORGE OF LONG CANYON, FROM VICINITY OF RAMSEY CROSSING TO APPROX 0.9 AIR MILE DOWNSTREAM OF CROSSING.

Detailed Location: PLANTS OCCUR FROM 10-900 FT ABOVE THE CREEKBED. ASSOCIATES WITH AREAS WHERE BEDROCK IS EXPOSED AND HIGHLY DECOMPOSED AND FRACTURED. A 1988 JOKERST COLL FROM "1 MI W RAMSEY CROSSING" IN THE NE1/4 OF THE NE1/4 OF SEC 7 ALSO ATTRIBUTED HERE.

Ecological: IN RIPARIAN WOODLAND AND ADJACENT CANYON LIVE OAK FOREST. ON TALUS, SCREE, POCKETS OF ACCUMULATED SOIL, DUFF, AND MOSS ON METAMORPHIC BEDROCK OUTCROP. ASSOCIATED W/POA SCABRELLA, MELICA GEYERI, BRODIAEA ELEGANS, EPILOBIUM CANUM, ETC.

General: 10,000+ PLANTS SEEN BETWEEN THIS SITE AND A PORTION OF EO #10 IN 1984. UNKNOWN NUMBER OF PLANTS SEEN IN 1988 & 2002. 5126 PLANTS OBSERVED IN 2012. ELEVATION RANGES FROM 3530 TO 3870 FT. INCLUDES FORMER OCCURRENCES #13 & #14.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	17	Map Index: 13141	EO Index: 18268	Element Last Seen: 1985-08-02
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1985-08-02
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2008-12-19

Quad Summary: Tunnel Hill (3812086)

County Summary: Placer

Lat/Long:	38.98057 / -120.63982	Accuracy:	specific area
UTM:	Zone-10 N4317271 E704439	Elevation (ft):	2400
PLSS:	T13N, R12E, Sec. 16, NE (M)	Acres:	14.0

Location: SOUTH SIDE OF INNER GORGE OF LONG CANYON, APPROXIMATELY 3.0 AND 3.2 MILES UPSTREAM FROM JUNCTION WITH RUBICON RIVER.

Detailed Location: MAPPED BY CNDDDB AS 3 POLYGONS IN THE N PART OF SECTION 16. IN 1985, JOKERST MENTIONS THAT "PHACELIA STEBBINSII IS COMMON ON NEARLY ALL BEDROCK OUTCROPS, ALL SUITABLE HABITAT WAS NOT SEARCHED & ALL OCCURRENCES WERE NOT MAPPED."

Ecological: IN CANYON LIVE OAK FOREST. PLANTS FOUND IN SCREE TALUS, AND SOIL ACCUMULATIONS ASSOCIATED WITH BEDROCK OUTCROPS. ASSOCIATED WITH DIPLACUS GRANDIFLORUS, PHILADELPHUS LEWISII, CHEILANTHES SILIQUOSA, ERIOGONUM UMBELLATUM.

General: 10,000+ PLANTS SEEN IN 1985 BETWEEN THIS SITE AND EO #S 19 & 20. NEED BETTER MAP DETAIL; UNSURE IF PHACELIA STEBBINSII IS CONTINUOUS THROUGHOUT THIS CANYON. NEEDS FIELDWORK. INCLUDES FORMER EO #18.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	19	Map Index: 13121	EO Index: 18267	Element Last Seen: 1985-08-02
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1985-08-02
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2008-12-19

Quad Summary: Tunnel Hill (3812086)

County Summary: Placer

Lat/Long:	38.98247 / -120.65090	Accuracy:	specific area
UTM:	Zone-10 N4317456 E703474	Elevation (ft):	2100
PLSS:	T13N, R12E, Sec. 16, NW (M)	Acres:	2.0

Location: SOUTH SIDE OF INNER GORGE OF LONG CANYON, APPROXIMATELY 2.3 MILES UPSTREAM FROM JUNCTION WITH RUBICON RIVER.

Detailed Location: IN 1985, JOKERST MENTIONS THAT "PHACELIA STEBBINSII IS COMMON ON NEARLY ALL BEDROCK OUTCROPS, ALL SUITABLE HABITAT WAS NOT SEARCHED & ALL OCCURRENCES WERE NOT MAPPED."

Ecological: IN CANYON LIVE OAK FOREST. PLANTS FOUND IN SCREE TALUS, AND SOIL ACCUMULATIONS ASSOCIATED WITH BEDROCK OUTCROPS. ASSOCIATED WITH DIPLACUS GRANDIFLORUS, PHILADELPHUS LEWISII, CHEILANTHES SILIQUOSA, ERIOGONUM UMBELLATUM.

General: 10,000+ PLANTS SEEN IN 1985 BETWEEN THIS SITE AND EO #S 17 & 20. NEED BETTER MAP DETAIL; UNSURE IF PHACELIA STEBBINSII IS CONTINUOUS THROUGHOUT THIS CANYON. NEEDS FIELDWORK.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	20	Map Index: 13108	EO Index: 13717	Element Last Seen:	1985-08-02
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1985-08-02
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-12-19
Quad Summary:	Tunnel Hill (3812086)				
County Summary:	Placer				
Lat/Long:	38.97999 / -120.65708		Accuracy:	specific area	
UTM:	Zone-10 N4317167 E702946		Elevation (ft):	2500	
PLSS:	T13N, R12E, Sec. 17, NE (M)		Acres:	14.0	
Location:	SOUTH SIDE OF GORGE OF LONG CANYON, APPROXIMATELY 2.0 MILES UPSTREAM FROM JUNCTION WITH RUBICON RIVER.				
Detailed Location:	IN 1985, JOKERST MENTIONS THAT "PHACELIA STEBBINSII IS COMMON ON NEARLY ALL BEDROCK OUTCROPS, ALL SUITABLE HABITAT WAS NOT SEARCHED & ALL OCCURRENCES WERE NOT MAPPED."				
Ecological:	IN CANYON LIVE OAK FOREST. PLANTS FOUND IN SCREE TALUS, AND SOIL ACCUMULATIONS ASSOCIATED WITH BEDROCK OUTCROPS. ASSOCIATED WITH DIPLACUS GRANDIFLORUS, PHILADELPHUS LEWISII, CHEILANTHES SILIQUOSA, ERIOGONUM UMBELLATUM.				
General:	10,000+ PLANTS SEEN IN 1985 BETWEEN THIS SITE AND EO #S 17 & 19. NEED BETTER MAP DETAIL; UNSURE IF PHACELIA STEBBINSII IS CONTINUOUS THROUGHOUT THIS CANYON. NEEDS FIELDWORK.				
Owner/Manager:	PVT				
Occurrence No.	21	Map Index: 13021	EO Index: 4867	Element Last Seen:	1985-06-25
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1985-06-25
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-12-19
Quad Summary:	Tunnel Hill (3812086)				
County Summary:	El Dorado				
Lat/Long:	38.96191 / -120.68653		Accuracy:	80 meters	
UTM:	Zone-10 N4315095 E700446		Elevation (ft):	2000	
PLSS:	T13N, R12E, Sec. 19, SW (M)		Acres:	0.0	
Location:	BELOW WATERFALL IN INNER GORGE OF PILOT CREEK, 0.85 MILE DOWNSTREAM FROM JUNCTION WITH RUBICON RIVER.				
Detailed Location:	PLANTS MOSTLY EAST OF CREEK ON BEDROCK BELOW LARGE FALLS.				
Ecological:	ON MOSS-COVERED METAMORPHIC BEDROCK OUTCROPS AND ASSOCIATED SCREE AND TALUS. IN RIPARIAN WOODLAND; SURROUNDING VEGETATION IS CANYON LIVE OAK FOREST. ASSOCIATES INCLUDE SEDUM SPATHULIFOLIUM, HEUCHERA MICRANTHA, GALIUM APARINE, ETC.				
General:	10,000+ PLANTS SEEN IN 1985 BETWEEN THIS SITE AND EO #22.				
Owner/Manager:	PVT				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	22	Map Index:	13023	EO Index:	4866	Element Last Seen:	1985-06-25
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		1985-06-25	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2008-12-19	

Quad Summary: Tunnel Hill (3812086)

County Summary: El Dorado

Lat/Long:	38.94949 / -120.68642	Accuracy:	specific area
UTM:	Zone-10 N4313717 E700490	Elevation (ft):	2450
PLSS:	T13N, R12E, Sec. 30, NW (M)	Acres:	16.0

Location: INNER GORGE OF PILOT CREEK, APPROX 1.5 MILES SOUTH OF JUNCTION WITH RUBICON RIVER.

Detailed Location: PLANTS MOSTLY EAST OF CREEK. MAPPED BY CNDDDB AS 2 POLYGONS; N POLYGON IS IN LARGE BEDROCK IN EXPANSE; S POLY IS OPPOSITE FALLS NORTH OF AND ADJACENT TO JUNCTION WITH SIDE CREEK.

Ecological: ON MOSS-COVERED METAMORPHIC BEDROCK OUTCROPS AND ASSOCIATED SCREE AND TALUS. IN RIPARIAN WOODLAND; SURROUNDING VEGETATION IS CANYON LIVE OAK FOREST. ASSOCIATES INCLUDE SEDUM SPATHULIFOLIUM, HEUCHERA MICRANTHA, GALIUM APARINE, ETC.

General: 10,000+ PLANTS SEEN IN 1985 BETWEEN THIS SITE AND EO #21. INCLUDES FORMER EO #23.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	24	Map Index:	13714	EO Index:	13716	Element Last Seen:	1983-07-20
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		1983-07-20	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2015-02-17	

Quad Summary: Loon Lake (3812083), Wentworth Springs (3912013)

County Summary: El Dorado

Lat/Long:	38.99742 / -120.33822	Accuracy:	specific area
UTM:	Zone-10 N4319861 E730514	Elevation (ft):	6600
PLSS:	T13N, R15E, Sec. 06, S (M)	Acres:	41.6

Location: WENTWORTH PEAK, 0.12-0.4 MILE NORTH OF FRANCIS LAKE.

Detailed Location: WENTWORTH PEAK ON NW & SW FACES OF PEAK, GROWS UP TO 50 FEET FROM THE RIDGETOP. ALSO FOUND ON LAVA BASALT FLOW KNOB DIRECTLY NORTH OF FRANCIS LAKE. THIS IS FS POPULATION #03-7.

Ecological: GROWS IN ROCKY OUTCROPPINGS ON THE SW SIDE OF JUNIPER TREES IN AVAILABLE DUFF. ASSOCIATES INCLUDE JUNIPERS, JEFFREY PINE, GREENLEAF AND PINEMAT MANZANITA, INCENSE CEDAR, STREPTANTHUS, PENSTEMON, STONECROP, CALOCHORTUS LEICHTLINII, ETC.

General: FLOURISHING POPULATION OF >1,000 PLANTS SEEN IN 1983. A 1977 STEBBINS COLLECTION FROM "SOUTH RIDGE OF WENTWORTH MOUNTAIN, WEST OF LOON LAKE", WITH GIVEN ELEVATION OF 6700 FT, IS ALSO ATTRIBUTED TO THIS OCCURRENCE.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	25	Map Index:	13493	EO Index:	13711	Element Last Seen:	2017-07-11
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2017-07-13	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-09-19	
Quad Summary:	Riverton (3812074)						
County Summary:	El Dorado						
Lat/Long:	38.85721 / -120.45227			Accuracy:	specific area		
UTM:	Zone-10 N4304016 E721071			Elevation (ft):	4600		
PLSS:	T12N, R14E, Sec. 30 (M)			Acres:	73.0		
Location:	SILVER CREEK AT JUNCTION RESERVOIR, ON SLOPES ABOVE RESERVOIR BETWEEN JUNCTION DAM AND UNION VALLEY RESERVOIR DAM.						
Detailed Location:	MAPPED BY CNDDDB AS 12 POLYGONS BASED PRIMARILY ON USFS FIELD SURVEYS AND DIGITAL DATA, ACROSS SECTION 30 AND PORTIONS OF ADJACENT SECTIONS. INCLUDES FORMER OCCURRENCE #S 26 & 39.						
Ecological:	ON STEEP, ROCKY, SOUTH FACING SLOPE. ASSOCIATED WITH CHEILANTHES GRACILLIMA, PELLAEA BRIDGESII, ARCTOSTAPHYLOS MEWUKKA, A. VISCIDA, A. PATULA, DUDLEYA CYMOSA, ERIOGONUM UMBELLATUM, QUERCUS CHRYSOLEPIS, Q. KELLOGGII, ETC.						
General:	TYPE LOCALITY. POPULATION #S FOR PORTIONS OF SITE: ~150 PLANTS SEEN IN 1979, OVER 2000 IN 1983, 1500 IN 1989, 100 IN 2002, 750 IN 2003, SEEN IN 2004, 500+ IN 2015, 1600+ PLANTS IN 2016. SEEN AT ONE SITE BUT NOT RELOCATED AT OTHERS IN 2017.						
Owner/Manager:	USFS-ELDORADO NF, PVT						
Occurrence No.	34	Map Index:	13100	EO Index:	13324	Element Last Seen:	1982-06-08
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1982-06-08	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2008-12-15	
Quad Summary:	Tunnel Hill (3812086)						
County Summary:	Placer						
Lat/Long:	38.99893 / -120.66016			Accuracy:	80 meters		
UTM:	Zone-10 N4319262 E702625			Elevation (ft):	4080		
PLSS:	T13N, R12E, Sec. 08, NE (M)			Acres:	0.0		
Location:	SOUTH OF POWERLINE ACCESS ROAD, 0.9 ROAD MILE NE OF JUNCTION WITH USFS ROAD 14N25, RALSTON RIDGE.						
Detailed Location:	2 ACRE AREA WITHIN 20 ACRE LAVA CAP. THIS IS USFS POPULATION #03-5. NW1/4 OF NE1/4 SEC 8.						
Ecological:	PLANTS FOUND GROWING OUT OF ROCK TALUS, VERY LITTLE SOIL. S SLOPE, ROCK RUBBLE AREA WITHIN LAVA CAP. GRASSY, OPEN AREA. IN ASSOCIATION WITH FESTUCA MEGALURA, CEANOTHUS CUNEATUS, QUERCUS KELLOGGII, Q. CHRYSOLEPIS.						
General:	MORE THAN 100 PLANTS SEEN IN 1982.						
Owner/Manager:	PVT						



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	36	Map Index: 30104	EO Index: 21997	Element Last Seen: 1991-06-12
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1991-06-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1994-09-06

Quad Summary: Robbs Peak (3812084)
County Summary: El Dorado

Lat/Long:	38.99013 / -120.38250	Accuracy:	specific area
UTM:	Zone-10 N4318941 E726702	Elevation (ft):	5600
PLSS:	T13N, R14E, Sec. 11, W (M)	Acres:	30.5

Location: EAST OF WENTWORTH SPRINGS ROAD., JUST NORTH OF GERLE CREEK DISPERSED CAMPING AREA.
Detailed Location: THIS IS A ROCK OUTCROP JUST N OF THE GERLE CREEK DISPERSED CAMPING AREA. PARKED NEAR THE GREEN GATE; WALK N UP ONTO THE ROCKS; PHACELIA IS FOUND IN THE DUFF UNDER THE JUNIPERS. APPEARS TO GROW ALL THE WAY UP THE HILL.
Ecological: ROCK OUTCROP WITH P. JEFFREYI, JUNIPERUS OCCIDENTALIS, Q. VACCINIFOLIA, ARCTO. PATULA, CEANOTHUS FRESNENSIS, ERIOGONUM PRATTENIANUM, PHLOX DIFFUSA, ERIOPHYLLUM, PENSTEMON NEWBERRYI, CALOCHORTUS, PHACELIA QUICKII. 5400-5920 FT ELEVATION.
General: AT LEAST 1500 PLANTS IN 1991.
Owner/Manager: USFS-ELDORADO NF

Occurrence No.	37	Map Index: 30103	EO Index: 22201	Element Last Seen: 1991-07-25
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1991-07-25
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1994-09-06

Quad Summary: Robbs Peak (3812084)
County Summary: Placer

Lat/Long:	38.97596 / -120.48471	Accuracy:	specific area
UTM:	Zone-10 N4317118 E717891	Elevation (ft):	4800
PLSS:	T13N, R13E, Sec. 14, SE (M)	Acres:	9.3

Location: APPROXIMATELY 1 MILE NORTH OF ELLICOTT BRIDGE, 0.9-1.15 MILES WEST OF RUBICON RIVER.
Detailed Location: PLANTS ARE IN BARE AREAS AT END OF FS ROAD 13N39B, OFF OF FS ROAD 14N11 (HALE FIRE ROAD).
Ecological: SW-FACING ROCK OUTCROPS WITH PHACELIA SP., NAVARRETIA SP., MANZANITA, QUERCUS LOBATA, KELLOGIA GALOIDES.
General: 150 PLANTS IN 1991.
Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	38	Map Index: 30129	EO Index: 4868	Element Last Seen:	1991-07-12
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1991-07-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-12-19
Quad Summary:	Devil Peak (3812085)				
County Summary:	Placer				
Lat/Long:	38.93301 / -120.55407		Accuracy:	specific area	
UTM:	Zone-10 N4312187 E712010		Elevation (ft):	4450	
PLSS:	T13N, R13E, Sec. 32, W (M)		Acres:	3.0	
Location:	0.1 MILE NORTH OF BELIX TRAIL, 1 AIR MILE EAST OF PIGEON ROOST MINE.				
Detailed Location:	GEORGETOWN R.S. TO ELEVEN PINES RD; CROSS RUBICON RIVER TO PIGEON ROOST RD (13N42). GO TO INTERSECTION W/ "E, B, AND D ROADS." TAKE "E" ROAD FOR 1/8 MI AND HEAD NORTH (UPHILL) TO DRY MEADOW. PLANTS ON TOP EDGE.				
Ecological:	PLANTS UNDER AND AROUND LIPS OF LARGE ROCK AT EDGE OF DRY MEADOW WITH MONARDELLA, DUDLEYA, ARCTOSTAPHYLOS, AND GRASSES. SURROUNDING COMMUNITY PONDEROSA PINE / DOUGLAS-FIR.				
General:	300 PLANTS IN 1991.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	40	Map Index: 30107	EO Index: 17853	Element Last Seen:	1993-05-26
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1993-05-26
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-09-06
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.84529 / -120.43897		Accuracy:	specific area	
UTM:	Zone-10 N4302725 E722261		Elevation (ft):	4680	
PLSS:	T12N, R14E, Sec. 32, NW (M)		Acres:	5.2	
Location:	0.5 MILE SE OF POTTS CABIN, SOUTH FORK SILVER CREEK.				
Detailed Location:	TAKE ICE HOUSE RD NORTH TO PEAVINE RIDGE; THEN DRIVE WEST TO BRYANT SPRINGS RD; TURN N AND DRIVE TO MICH-CAL MAIN LINE RD 12N17Y. TURN RIGHT ON RD 12N36, AND PROCEED S ABOVE SILVER CRK; GO ABOUT 1 MI; PARK AT LANDING.				
Ecological:	DARK METAMORPHIC ROCKY OUTCROP WITH ERODING TALUS. WITH APOCYNUM ADROSAEMAFOLIUM, PELLAEA BRIDGESII, MADIA MINIMA, CHLOROGALUM POMERIDIANUM, LUZULA COMOSA, COLLINSIA, COLLOMIA HETEROPHYLLA.				
General:	1000'S OF PLANTS IN 1993. SITE WAS BURNED IN 1992.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	41	Map Index: 30106	EO Index: 22239	Element Last Seen:	2016-06-15
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2016-06-15
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-19
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.85282 / -120.44487		Accuracy:	specific area	
UTM:	Zone-10 N4303547 E721727		Elevation (ft):	4550	
PLSS:	T12N, R14E, Sec. 30, SE (M)		Acres:	25.0	
Location:	NORTH AND EAST OF POTTS CABIN, SOUTH FORK SILVER CREEK.				
Detailed Location:	NORTH AND EAST SIDES OF CREEK. MAPPED BY CNDDDB AS 2 POLYGONS IN THE SE 1/4 OF SECTION 30 & THE SW 1/4 OF SECTION 29 ACCORDING TO 1993 BARRON MAPS & 2017 USFS DIGITAL DATA. THIS IS FS OCCURRENCE #03-24.				
Ecological:	BEDROCK OUTCROPS AND ROCKY TALUS WITH STREPTANTHUS TORTUOSUS, COLLOMIA HETEROPHYLLA, CHLOROGALUM POMERIDIANUM, VULPIA, ERIOPHYLLUM LANATUM, ERIOGONUM NUDUM, ALLIUM OBTUSUM. THE RARE VIOLA TOMENTOSA IS FOUND NEARBY.				
General:	AT LEAST 5000 PLANTS IN 1993 IN SEVERAL SUBPOPULATIONS. AREA WAS BURNED IN 1992. UNKNOWN NUMBER OF PLANTS SEEN IN 2008. WEST POLYGON: THOUSANDS OF PLANTS ESTIMATED IN 2014 & 2016; 40 PLANTS COUNTED RIGHT AT ROADSIDE IN 2016.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	44	Map Index: 30102	EO Index: 19851	Element Last Seen:	1991-06-21
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1991-06-21
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-09-06
Quad Summary:	Loon Lake (3812083)				
County Summary:	El Dorado				
Lat/Long:	38.99856 / -120.35054		Accuracy:	specific area	
UTM:	Zone-10 N4319956 E729443		Elevation (ft):	6760	
PLSS:	T13N, R14E, Sec. 01, SE (M)		Acres:	12.2	
Location:	WEST OF LOON LAKE, 0.5 AIR MILE NW OF FRANCIS LAKE.				
Detailed Location:	NORTH ON ICE HOUSE RD OFF OF HWY 50; DRIVE TO LOON LAKE. PARK NEAR DAM AND WALK THE TRAIL TO LAKE FRANCIS. FROM THIS LAKE, THE PLANTS ARE ABOUT 1/2 AIR MI NW OF THE LAKE. BEST ACCESS IS UP RIDGE FROM LAKE FRANCIS, THEN W TO TOP OF RED MTN.				
Ecological:	METAMORPHIC ROCK OUTCROP WITH Q. VACCINIFOLIA, PRUNUS EMARGINATA, ARCTOSTAPHYLOS NEVADENSIS, CEANOTHUS FRESNOENSIS, SALIX SCOULERI, & APOCYNUM ANDROSMAEFOLIUM. PHACELIAS ARE FOUND DOWN FROM THE TOP ON THE WEST SIDE OF THE MOUNTAIN.				
General:	UNKNOWN NUMBER OF PLANTS SEEN IN 1991. THIS IS FS POPULATION #03-22.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	52	Map Index: 63814	EO Index: 63909	Element Last Seen:	2003-06-12
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2003-06-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-02-17

Quad Summary: Loon Lake (3812083)

County Summary: El Dorado

Lat/Long:	38.98950 / -120.33606	Accuracy:	1/10 mile
UTM:	Zone-10 N4318988 E730726	Elevation (ft):	6470
PLSS:	T13N, R15E, Sec. 07, NE (M)	Acres:	0.0

Location: ABOUT 0.25 MILE SOUTHEAST OF FRANCIS LAKE, WEST OF LOON LAKE.

Detailed Location: BASED ON 2003 COLLECTION FROM "LOON LAKE, CA. 400 M WEST OF DAM ON ROCKY BASIN CREEK ARM, 6470 FEET" WITH LAT-LONG: 38.99006N, -120.33509W (NO DATUM INDICATED). MAPPED IN THE SW 1/4 OF THE NE 1/4 OF SECTION 7.

Ecological: IN ROCKY CREVICES, SCREE, OR TALUS IN OPEN QUERCUS VACCINIFOLIA SCRUB, SYMPATRIC WITH PHACELIA MARCENSIS.

General: UNKNOWN NUMBER OF PLANTS SEEN IN 2003.

Owner/Manager: UNKNOWN

Occurrence No.	53	Map Index: 73138	EO Index: 74069	Element Last Seen:	2014-06-17
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2015-09-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-07

Quad Summary: Robbs Peak (3812084)

County Summary: Placer

Lat/Long:	38.96631 / -120.47215	Accuracy:	specific area
UTM:	Zone-10 N4316077 E719010	Elevation (ft):	3800
PLSS:	T13N, R13E, Sec. 24, NW (M)	Acres:	5.0

Location: ALONG HUNTERS TRAIL, NW SIDE OF RUBICON RIVER, ~0.25 MI SW OF CONFLUENCE OF RUBICON RIVER & THE S FORK RUBICON RIVER.

Detailed Location: MAPPED BY CNDDDB AS 2 POLYGONS IN THE NW 1/4 OF SECTION 24 & THE SW 1/4 OF SECTION 13 ACCORDING TO A 2008 WALKER MAP AND ELDORADO NF DIGITAL DATA.

Ecological: GROWING IN SOIL POCKETS IN SHELVES OF METAMORPHIC BEDROCK ON S-FACING SLOPE. MIXED CONIFER/MONTANE HARDWOODS WITH CHAPARRAL. QUERCUS CHRYSOLEPIS, ARCTOSTAPHYLOS VISCIDA, KECKIELLA LEMMONII, TOXICODENDRON DIVERSILOBUM, LUPINUS BICOLOR, ETC.

General: <50 PLANTS SEEN IN 2008. 300 PLANTS SEEN IN 2012. 1155 PLANTS IN 2014. BURNED IN 2014 KING FIRE. NONE FOUND DURING LATE-SEASON SITE VISIT IN 2015.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	54	Map Index:	73139	EO Index:	74070	Element Last Seen:	2015-06-22
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2015-06-22	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-09-07	

Quad Summary: Devil Peak (3812085)

County Summary: El Dorado

Lat/Long:	38.90835 / -120.55543	Accuracy:	specific area
UTM:	Zone-10 N4309448 E711966	Elevation (ft):	4440
PLSS:	T12N, R13E, Sec. 7, NE (M)	Acres:	4.0

Location: OFF OF FS ROAD 12N51A, APPROXIMATELY 0.5 AIR MILE WEST OF LEONARDI SPRING.

Detailed Location: MAPPED BY CNDDDB IN THE NE 1/4 OF THE NE 1/4 OF SECTION 7, BASED ON 2012 DIGITAL DATA AND TWO SETS OF COORDINATES PROVIDED BY LO. USFS OCCURRENCE #03-23.

Ecological: IN SCREE AND THIN SOIL ACCUMULATIONS WITH THICK OAK DUFF LAYER ON FLAT VOLCANIC BEDROCK BENCHES & CREVICES; IN OPENINGS IN QUERCUS CHRYSOLEPIS WOODLAND WITH MOSSES, FESTUCA MYUROS, ARCTOSTAPHYLOS MEWUKKA SSP. MEWUKKA, LEWISIA SERRATA, ETC.

General: APPROXIMATELY 150 PLANTS SEEN IN 1992. 350 PLANTS SEEN IN 2012; POTENTIAL (BUT DANGEROUSLY STEEP) HABITAT DOWNSLOPE OF OCCURRENCE WAS NOT SURVEYED. 19 PLANTS IN 2015.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	55	Map Index:	73140	EO Index:	74071	Element Last Seen:	1985-08-02
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		1985-08-02	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2008-12-19	

Quad Summary: Devil Peak (3812085), Tunnel Hill (3812086)

County Summary: Placer

Lat/Long:	38.97823 / -120.62139	Accuracy:	specific area
UTM:	Zone-10 N4317052 E706043	Elevation (ft):	2800
PLSS:	T13N, R12E, Sec. 15, N (M)	Acres:	6.0

Location: ALONG LONG CANYON, ABOUT 1.25-1.5 MI W OF THE JUNCTION OF LONG CANYON & WALLACE CANYON, S OF LYNCHBURG HILL.

Detailed Location: MAPPED BY CNDDDB AS 2 POLYS IN THE N 1/2 OF SEC 15 ACC TO A 1985 JOKERST MAP. JOKERST MENTIONS THAT "PHACELIA STEBBINSII IS COMMON ON NEARLY ALL BEDROCK OUTCROPS, ALL SUITABLE HABITAT WAS NOT SEARCHED & ALL OCCURRENCES WERE NOT MAPPED."

Ecological: SCATTERED ON NEARLY ALL BEDROCK OUTCROPS IN THE CANYON WITH HABITATS RANGING FROM PROTECTED TO OPEN AND ARID. OPEN SLOPES FOREST DOMINATED BY QUERCUS CHRYSOLEPIS WITH SOME PSEUDOTSUGA, PINUS PONDEROSA, ACER MACROPHYLLUM, Q. KELLOGGII, ETC.

General: 10,000+ PLANTS SEEN IN 1985 THROUGHOUT LONG CANYON. NEED BETTER MAP DETAIL; UNSURE IF PHACELIA STEBBINSII IS CONTINUOUS THROUGHOUT THIS CANYON. NEEDS FIELDWORK.

Owner/Manager: USFS-ELDORADO NF?



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	58	Map Index: 95242	EO Index: 96378	Element Last Seen:	2009-05-15
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2009-05-15
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-02-20

Quad Summary: Robbs Peak (3812084)

County Summary: El Dorado, Placer

Lat/Long:	38.96008 / -120.48435	Accuracy:	specific area
UTM:	Zone-10 N4315356 E717971	Elevation (ft):	3360
PLSS:	T13N, R13E, Sec. 23, SE (M)	Acres:	1.0

Location: APPROXIMATELY 0.1 MILE DOWNSTREAM FROM ELLICOTT BRIDGE, ALONG THE TRAIL ON THE NORTH SIDE OF RUBICON RIVER.

Detailed Location: MAPPED ACCORDING TO COORDINATES PROVIDED BY CRISP, IN THE NW 1/4 OF THE SE 1/4 OF SECTION 23.

Ecological: MIXED HARDWOOD CONIFER FOREST/RIPARIAN, GRANITE BEDROCK WITH OPENINGS OF SAND AND GRAVEL SUBSTRATE. ASSOCIATED WITH PSEUDOTSUGA MENZIESII, RIBES SP, ALNUS SP, ARTEMISIA DOUGLASIANA, BROMUS TECTORUM, AND VULPIA MYUROS.

General: 4 PLANTS OBSERVED IN 2009; 3 PLANTS ARE LOCATED WITHIN A SANDY OUTCROP AND ONE PLANT IS LOCATED NEAR A SMALL TRIBUTARY TO THE RUBICON RIVER.

Owner/Manager: UNKNOWN

Occurrence No.	75	Map Index: B0536	EO Index: 112397	Element Last Seen:	2013-05-17
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2013-05-17
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-04

Quad Summary: Pollock Pines (3812075)

County Summary: El Dorado

Lat/Long:	38.7953 / -120.5925	Accuracy:	80 meters
UTM:	Zone-10 N4296814 E709083	Elevation (ft):	2980
PLSS:	T11N, R12E, Sec. 13, SW (M)	Acres:	5.0

Location: EAST END OF POHO RIDGE, 0.4 AIR MILE NNW OF MOUTH OF SILVER CREEK, 2 MILES NORTH OF POLLOCK PINES.

Detailed Location: MAPPED IN THE SE 1/4 SW 1/4 SECTION 15 BASED ON ELDORADO NF DIGITAL DATA.

Ecological: VERY STEEP ROCKY OUTCROP, 75 FEET FROM USE TRAIL.

General: 30 PLANTS OBSERVED IN 2013. ELDORADO NF POPULATION #51-01.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	76	Map Index: B0541	EO Index: 112405	Element Last Seen:	2015-06-18
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-06-18
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-10

Quad Summary: Pollock Pines (3812075)

County Summary: El Dorado

Lat/Long:	38.80289 / -120.60181	Accuracy:	specific area
UTM:	Zone-10 N4297636 E708252	Elevation (ft):	3200
PLSS:	T11N, R12E, Sec. 14, NE (M)	Acres:	3.0

Location: POHO RIDGE; 1.1 AIR MI NE OF EL DORADO POWERHOUSE ABOVE SOUTH FORK AMERICAN RIVER, 1 AIR MI NW OF SILVER CREEK MOUTH.

Detailed Location: MAPPED IN THE SE 1/4 NE 1/4 SECTION 14 BASED ON ELDORADO NF DIGITAL DATA.

Ecological: ROCK OUTCROPS. POPULATION EXTENDS BELOW ROAD.

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 2015. ELDORADO NF POPULATION #51-02.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	77	Map Index: B0545	EO Index: 112410	Element Last Seen:	2016-06-10
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-06-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-04

Quad Summary: Pollock Pines (3812075)

County Summary: El Dorado

Lat/Long:	38.83406 / -120.51954	Accuracy:	specific area
UTM:	Zone-10 N4301286 E715303	Elevation (ft):	4500
PLSS:	T11N, R13E, Sec. 3, NW (M)	Acres:	7.0

Location: ABOUT 0.2-0.4 AIR MILE NW OF JAY BIRD SPRING WITHIN SMUD TRANSMISSION CORRIDOR.

Detailed Location: MAPPED AS 2 POLYGONS BY CNDDDB NEAR THE COMMON CORNER OF SECTIONS 3, 4, 33 & 34 BASED ON ELDORADO NF DIGITAL DATA.

Ecological: MIXED CONIFER AND HARDWOOD FOREST, STEEP SLOPES IN LAVA CAP HABITAT WITHIN TRANSMISSION CORRIDOR ROW. ASSOCIATES INCLUDE THE RARE CALOCHORTUS CLAVATUS AVIUS, STREPTANTHUS LONGISILIQUEUS, AND CHLOROGALUM GRANDIFLORUM.

General: 2275 PLANTS OBSERVED IN 2016. ID NEEDS VERIFICATION; P. PURPUSII HAS BEEN MISIDENTIFIED AS P. STEBBINSII IN THIS VICINITY.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	78	Map Index: B0548	EO Index: 112412	Element Last Seen:	2016-06-13
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-06-13
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-10
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.83318 / -120.50748		Accuracy:	specific area	
UTM:	Zone-10 N4301216 E716352		Elevation (ft):	4700	
PLSS:	T11N, R13E, Sec. 3, NE (M)		Acres:	1.0	
Location:	ABOUT 0.4 AIR MILE ENE OF JAY BIRD SPRING WITHIN SMUD TRANSMISSION CORRIDOR.				
Detailed Location:	MAPPED BY CNDDDB IN THE NW 1/4 NE 1/4 SECTION 3 BASED ON ELDORADO NF DIGITAL DATA.				
Ecological:					
General:	50 PLANTS OBSERVED IN 2016. ID NEEDS VERIFICATION; P. PURPUSII HAS BEEN MISIDENTIFIED AS P. STEBBINSII IN THIS VICINITY.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	79	Map Index: B0550	EO Index: 112414	Element Last Seen:	2015-07-01
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2015-07-01
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-04
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.87207 / -120.5447		Accuracy:	80 meters	
UTM:	Zone-10 N4305445 E713005		Elevation (ft):	4475	
PLSS:	T12N, R13E, Sec. 20, W (M)		Acres:	5.0	
Location:	JUST ABOVE ONION CREEK, 1.2 AIR MILES SE OF SUMMIT OF LOOKOUT MOUNTAIN.				
Detailed Location:	MAPPED BY CNDDDB NEAR THE CENTER OF SECTION 20 BASED ON 2015 TIESEN COORDINATES.				
Ecological:	OPEN, ROCKY, VERY STEEP SLOPE ABOVE CREEK. SITE BURNED IN 2014 KING FIRE, KILLING MOST OF THE TREES.				
General:	25+ PLANTS OBSERVED IN 2015. TOTAL NUMBER OF PLANTS IS A LOW CONSERVATIVE ESTIMATE, POSSIBLY MANY MORE.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	80	Map Index: B0551	EO Index: 112415	Element Last Seen:	2016-08-24
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-08-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-10
Quad Summary:	Loon Lake (3812083)				
County Summary:	El Dorado				
Lat/Long:	38.98788 / -120.37253		Accuracy:	specific area	
UTM:	Zone-10 N4318716 E727572		Elevation (ft):	5515	
PLSS:	T13N, R14E, Sec. 11, E (M)		Acres:	4.0	
Location:	BELOW FRANCIS COW CAMP, ALONG ROAD 1.3 AIR MILES SE OF JACOBSEN MEADOW.				
Detailed Location:	MAPPED IN THE EAST HALF OF SECTION 11 BASED ON ELDORADO NF DIGITAL DATA.				
Ecological:	DECOMPOSED GRANITE CLEARING ON KNOLL, WEST SIDE OF ROAD. ASSOCIATES INCLUDE QUERCUS VACCINIIFOLIA, CALOEDRUS DECURRENS, PINUS PONDEROSA, AND UNKNOWN PHACELIA SP.				
General:	7 SENESCENT PLANTS OBSERVED IN 2016. ID UNCERTAIN; NEEDS REVISIT WHEN FLOWERING FOR POSITIVE IDENTIFICATION.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	81	Map Index: B0552	EO Index: 112416	Element Last Seen:	2016-06-21
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-06-21
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-11
Quad Summary:	Devil Peak (3812085)				
County Summary:	Placer				
Lat/Long:	38.94201 / -120.53285		Accuracy:	specific area	
UTM:	Zone-10 N4313236 E713823		Elevation (ft):	4700	
PLSS:	T13N, R13E, Sec. 28, SW (M)		Acres:	6.0	
Location:	ALONG 11 PINES RD (14N08) ABOVE THE RUBICON RIVER, 1.4 AIR MILES SE OF DEVIL PEAK.				
Detailed Location:	MAPPED AS 2 POLYGONS BY CNDDDB BASED ON DIGITAL DATA PROVIDED BY ELDERADO NF, IN THE SE 1/4 SW 1/4 SECTION 28.				
Ecological:	LAVA CAP HILLSIDE ALONG ROAD, WITHIN BURNED MIXED CONIFER/OAK WOODLAND. AREA BURNED IN 2014 KING FIRE. ASSOCIATES INCLUDE QUERCUS KELLOGGII, Q. WISLIZENI, CENTAUREA SOLSTITIALIS, BROMUS TECTORUM, AEGILOPS TRIUNCIALIS, ARCTOSTAPHYLOS, ETC.				
General:	210 PLANTS OBSERVED IN 2015. 1000 PLANTS OBSERVED IN SW POLYGON IN 2016.				
Owner/Manager:	USFS-ELDORADO NF				

Occurrence No.	82	Map Index: B0553	EO Index: 112418	Element Last Seen:	2016-06-17
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2016-06-17
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-09-05
Quad Summary:	Devil Peak (3812085)				
County Summary:	El Dorado				
Lat/Long:	38.90895 / -120.62073		Accuracy:	specific area	
UTM:	Zone-10 N4309364 E706302		Elevation (ft):	4165	
PLSS:	T12N, R12E, Sec. 10, NE (M)		Acres:	1.0	
Location:	NEAR PILOT CREEK NORTH OF WENTWORTH SPRINGS RD, ABOUT 1.0 AIR MILE WNW OF STUMPY MEADOWS RESERVOIR DAM.				
Detailed Location:	MAPPED BY CNDDDB IN THE NW 1/4 NE 1/4 SECTION 10 BASED ON 2016 TIESAN COORDINATES.				
Ecological:	OPEN AREA WITHIN DENSE MIXED CONIFER FOREST.				
General:	115+ PLANTS OBSERVED IN 2016.				
Owner/Manager:	PVT-SIERRA PACIFIC				

Clarkia biloba ssp. brandegeae			Element Code: PDONA05053		
Brandegee's clarkia					
Listing Status:	Federal: None		CNDDB Element Ranks:	Global: G4G5T4	
	State: None			State: S4	
	Other: Rare Plant Rank - 4.2, BLM_S-Sensitive				
Habitat:	General: CHAPARRAL, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.				
	Micro: OFTEN IN ROADCUTS. 75-915 M.				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	1	Map Index: 43396	EO Index: 43396	Element Last Seen:	2009-05-19
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2009-05-19
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2010-05-25

Quad Summary: Garden Valley (3812077), Coloma (3812078)

County Summary: El Dorado

Lat/Long:	38.78349 / -120.87686	Accuracy:	80 meters
UTM:	Zone-10 N4294892 E684414	Elevation (ft):	1150
PLSS:	T11N, R10E, Sec. 21, SW (M)	Acres:	0.0

Location: ABOUT 1 MILE SOUTH OF COLOMA ALONG WEST SIDE OF HIGHWAY 49.

Detailed Location: PLANTS ARE ON AN EAST-FACING CUT-BANK OF THE ROAD IN THE SW 1/4 OF THE SW 1/4 OF SECTION 21.

Ecological: GROWING ON E-FACING ROAD CUT UNDER GRAY PINE, CALIFORNIA BUCKEYE, YERBA SANTA, AND TOYON.

General: MORE THAN 1000 PLANTS OBSERVED IN 2009. 1947 COLLECTION BY LEWIS AND LEWIS FROM "1.7 MILES SOUTH OF COLOMA POST OFFICE" ALSO ATTRIBUTED HERE.

Owner/Manager: UNKNOWN

Occurrence No.	47	Map Index: 65002	EO Index: 65081	Element Last Seen:	1943-06-21
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1943-06-21
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2006-07-05

Quad Summary: Camino (3812066), Placerville (3812067)

County Summary: El Dorado

Lat/Long:	38.73988 / -120.74857	Accuracy:	1/5 mile
UTM:	Zone-10 N4290318 E695677	Elevation (ft):	2400
PLSS:	T10N, R11E, Sec. 10, N (M)	Acres:	0.0

Location: WEST OF INSTITUTE OF FOREST GENETICS, 3 MILES EAST OF PLACERVILLE.

Detailed Location:

Ecological: DRY, WOODED RAVINE ON HILLSIDE.

General: A 1943 ROBBINS COLLECTION IS THE ONLY SOURCE FOR THIS OCCURRENCE. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Occurrence No.	80	Map Index: 78899	EO Index: 79880	Element Last Seen:	2009-05-24
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2009-05-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2010-05-25

Quad Summary: Fiddletown (3812057)

County Summary: El Dorado

Lat/Long:	38.59961 / -120.79701	Accuracy:	nonspecific area
UTM:	Zone-10 N4274648 E691841	Elevation (ft):	1700
PLSS:	T09N, R11E, Sec. 29, SW (M)	Acres:	18.0

Location: SAND RIDGE ROAD, 3.3 MILES EAST OF THE COSUMNES RIVER AND CA-49.

Detailed Location: MAPPED BY CNDDB ALONG SAND RIDGE RD ~3.3 ROAD MILES EAST OF THE COSUMNES RIVER IN VICINITY OF THE GIVEN ELEVATION OF 521 M (1700 FT).

Ecological: OAK WOODLAND WITH MUCH MANZANITA.

General: OCCASIONAL ALONG THE ROADSIDE BANK IN 2009. ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 2009 HELMKAMP & HELMKAMP COLLECTION.

Owner/Manager: UNKNOWN



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	81	Map Index:	78900	EO Index:	79881	Element Last Seen:	2009-06-06
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2009-06-06	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2010-05-25	
Quad Summary:	Garden Valley (3812077)						
County Summary:	El Dorado						
Lat/Long:	38.75659 / -120.76633			Accuracy:	nonspecific area		
UTM:	Zone-10 N4292135 E694088			Elevation (ft):	2260		
PLSS:	T11N, R11E, Sec. 32, SE (M)			Acres:	18.0		
Location:	ALONG MOSQUITO ROAD, 2.8 MILES NORTH OF ITS JUNCTION WITH CA-50 IN PLACERVILLE.						
Detailed Location:	WIDESPREAD ON NORTH-FACING, OPEN SLOPES. MAPPED BY CNDDDB ALONG MOSQUITO ROAD ~2.8 MILES NORTH OF HIGHWAY 50 IN VICINITY OF GIVEN ELEVATION OF 691 M (2260 FT).						
Ecological:	MIXED FOREST WITH MUCH MANZANITA.						
General:	COMMON AND WIDESPREAD IN 2009. ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 2009 HELMKAMP & HELMKAMP COLLECTION.						
Owner/Manager:	UNKNOWN						

<i>Lewisia serrata</i>	Element Code: PDPOR040E0						
saw-toothed lewisia							
Listing Status:	Federal:	None		CNDDDB Element Ranks:	Global:	G2	
	State:	None			State:	S2	
	Other:	Rare Plant Rank - 1B.1, USFS_S-Sensitive					
Habitat:	General:	BROADLEAFED UPLAND FOREST, LOWER MONTANE CONIFEROUS FOREST, RIPARIAN FOREST.					
	Micro:	SHADED, NORTH-FACING MOSS-COVERED, METAMORPHIC ROCK CLIFFS. 800-1435 M.					

*** SENSITIVE ***

Occurrence No.	1	Map Index:	13464	EO Index:	24339	Element Last Seen:	1987-05-01
Occ. Rank:	Excellent	Presence:	Presumed Extant	Site Last Seen:		1987-05-01	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2015-07-30	
Quad Summary:	Riverton (3812074)						
County Summary:	El Dorado						
Lat/Long:				Accuracy:	specific area		
UTM:				Elevation (ft):	4700		
PLSS:				Acres:	5.8		
Location:	*SENSITIVE* LOCATION INFORMATION SUPPRESSED.						
Detailed Location:	PLEASE CONTACT THE CALIFORNIA NATURAL DIVERSITY DATABASE, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, FOR MORE INFORMATION: (916) 322-2493						
Ecological:	FOUND IN MIXED CONIFER FOREST ON MOIST SEEP ABOVE CREEK. ASSOCIATED WITH SALIX SCOULERIANA, BOYKINIA MAJOR, ALNUS TENUIFOLIA, RIBES NEVADENSE, ATHYRIUM FILIX-FEMINA, MIMULUS BICOLOR, CORNUS STOLONIFERA, PSEUDOTSUGA MENZIESII, ACER, ETC.						
General:							
Owner/Manager:							



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



*** SENSITIVE ***

Occurrence No.	2	Map Index:	13302	EO Index:	24336	Element Last Seen:	2008-XX-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		Record Last Updated:	2015-07-29
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				

Quad Summary: Pollock Pines (3812075)

County Summary: El Dorado

Lat/Long: **Accuracy:** specific area

UTM: **Elevation (ft):** 3300

PLSS: **Acres:** 7.5

Location: *SENSITIVE* LOCATION INFORMATION SUPPRESSED.

Detailed Location: PLEASE CONTACT THE CALIFORNIA NATURAL DIVERSITY DATABASE, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, FOR MORE INFORMATION: (916) 322-2493

Ecological: FOUND ON NORTHWEST FACING LEDGES IN CANYON BELOW WATERFALL. ASSOCIATED WITH PHACELIA STEBBINSII, ATHYRIUM FILIX-FEMINA, CYSTOPTERIS FRAGILIS, POLYSTICHUM MUNITUM, ACER MACROPHYLLUM, BRODIAEA HYACINTHINA, RHUS DIVERSILOBA, ARALIA, ETC.

General:

Owner/Manager:

*** SENSITIVE ***

Occurrence No.	3	Map Index:	10630	EO Index:	5630	Element Last Seen:	2008-XX-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		Record Last Updated:	2015-07-30
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				

Quad Summary: Devil Peak (3812085)

County Summary: El Dorado

Lat/Long: **Accuracy:** specific area

UTM: **Elevation (ft):** 3720

PLSS: **Acres:** 4.5

Location: *SENSITIVE* LOCATION INFORMATION SUPPRESSED.

Detailed Location: PLEASE CONTACT THE CALIFORNIA NATURAL DIVERSITY DATABASE, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, FOR MORE INFORMATION: (916) 322-2493

Ecological: IN CRACKS AND CREVICES FOUND ON METAMORPHIC ROCK WITH CANYON LIVE OAK, DOUGLAS-FIR, MOSSES, DENTARIA CALIFORNICA, SMILACINA RACEMOSA, SEDUM SPATHULIFOLIUM, HEUCHERA MICRANTHA, AND PHACELIA STEBBINSII (ALSO RARE).

General:

Owner/Manager:



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



*** SENSITIVE ***

Occurrence No.	8	Map Index:	13217	EO Index:	14232	Element Last Seen:	2003-XX-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2003-XX-XX	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2015-07-30	

Quad Summary: Devil Peak (3812085)

County Summary: Placer

Lat/Long: **Accuracy:** specific area

UTM: **Elevation (ft):** 3200

PLSS: **Acres:** 45.0

Location: *SENSITIVE* LOCATION INFORMATION SUPPRESSED.

Detailed Location: PLEASE CONTACT THE CALIFORNIA NATURAL DIVERSITY DATABASE, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, FOR MORE INFORMATION: (916) 322-2493

Ecological: PLANTS ON MOSS-COVERED BEDROCK ASSOCIATED WITH ALNUS RHOMBIFOLIA, QUERCUS CHRYSOLEPIS, TOXICODENDRON, LONICERA, PHILADELPHUS LEWISII, SEDUM SPATHULIFOLIUM, LOMATIUM UTRICULATUM, CHEILANTHES GRACILLIMA, DUDLEYA CYMOSA, ETC.

General:

Owner/Manager:

*** SENSITIVE ***

Occurrence No.	9	Map Index:	97048	EO Index:	98283	Element Last Seen:	1984-06-22
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1984-06-22	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2015-07-31	

Quad Summary: Devil Peak (3812085)

County Summary: Placer

Lat/Long: **Accuracy:** 80 meters

UTM: **Elevation (ft):** 3000

PLSS: **Acres:** 0.0

Location: *SENSITIVE* LOCATION INFORMATION SUPPRESSED.

Detailed Location: PLEASE CONTACT THE CALIFORNIA NATURAL DIVERSITY DATABASE, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, FOR MORE INFORMATION: (916) 322-2493

Ecological: NEAR VERTICAL EXPOSURE OF BEDROCK THAT IS MOSTLY MOSS-COVERED. CANYON ORIENTATION IS SUCH THAT AFTERNOON SUN IS FILTERED FOR ABOUT 1/2 OF THE PLANTS, THE REST ARE IN NEAR FULL SUN. ECOTONE BETWEEN RIPARIAN AND ADJACENT QUERCUS CHRYSOLEPIS.

General:

Owner/Manager:



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



*** SENSITIVE ***

Occurrence No.	13	Map Index:	97051	EO Index:	98284	Element Last Seen:	2012-05-13
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2012-05-13	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2015-07-31	

Quad Summary: Devil Peak (3812085)

County Summary: El Dorado

Lat/Long:		Accuracy:	specific area
UTM:		Elevation (ft):	4300
PLSS:		Acres:	4.0

Location: *SENSITIVE* LOCATION INFORMATION SUPPRESSED.

Detailed Location: PLEASE CONTACT THE CALIFORNIA NATURAL DIVERSITY DATABASE, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, FOR MORE INFORMATION: (916) 322-2493

Ecological: GROWING ON MOSSY TO BARE VOLCANIC BEDROCK OUTCROPS, IN OPENINGS IN QUERCUS CHRYSOLEPIS WOODLAND. ASSOCIATED WITH SEDUM SPATHULIFOLIUM, MICRANTHES CALIFORNICA, HEUCHERA MICRANTHA, ASPIDOTIS DENSA, PENTAGRAMMA TRIANGULARIS, PHACELIA, ETC.

General:

Owner/Manager:

*** SENSITIVE ***

Occurrence No.	14	Map Index:	97052	EO Index:	98285	Element Last Seen:	1985-08-02
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1985-08-02	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2015-07-31	

Quad Summary: Devil Peak (3812085)

County Summary: Placer

Lat/Long:		Accuracy:	specific area
UTM:		Elevation (ft):	2800
PLSS:		Acres:	10.0

Location: *SENSITIVE* LOCATION INFORMATION SUPPRESSED.

Detailed Location: PLEASE CONTACT THE CALIFORNIA NATURAL DIVERSITY DATABASE, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, FOR MORE INFORMATION: (916) 322-2493

Ecological: MOSS-COVERED BEDROCK. OPENING IN FOREST DOMINATED BY QUERCUS CHRYSOLEPIS WITH OCCASIONAL Q. KELLOGGII, PSEUDOTSUGA MENZIESII, AND PINUS PONDEROSA. OTHER ASSOCIATES IN LONG CANYON INCLUDE PHILADELPHUS LEWISII, DIPLACUS GRANDIFLORUS, ETC.

General:

Owner/Manager:

<i>Horkelia parryi</i>		Element Code: PDROS0W0C0
Parry's horkelia		
Listing Status:	Federal: None	CNDDB Element Ranks:
	State: None	Global: G2
	Other: Rare Plant Rank - 1B.2, BLM_S-Sensitive, USFS_S-Sensitive	State: S2
Habitat:	General: CHAPARRAL, CISMONTANE WOODLAND.	
	Micro: OPENINGS IN CHAPARRAL OR WOODLAND; ESPECIALLY KNOWN FROM THE IONE FORMATION IN AMADOR COUNTY. 85-1115 M.	



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	11	Map Index: 13058	EO Index: 19430	Element Last Seen: 2015-04-10
Occ. Rank:	Poor		Presence: Presumed Extant	Site Last Seen: 2015-04-10
Occ. Type:	Natural/Native occurrence		Trend: Decreasing	Record Last Updated: 2016-06-06

Quad Summary: Camino (3812066)

County Summary: El Dorado

Lat/Long:	38.69963 / -120.67027	Accuracy:	80 meters
UTM:	Zone-10 N4286021 E702597	Elevation (ft):	2500
PLSS:	T10N, R12E, Sec. 20, SE (M)	Acres:	0.0

Location: ALONG CAMINO-PLEASANT VALLEY ROAD [NEWTOWN ROAD], ABOUT 0.5 MILE NORTH OF PLEASANT VALLEY RD.

Detailed Location: FROM JUNCTION OF NEWTOWN ROAD AND STARKS GRADE GO NORTH 0.1 MILE TO 5302 NEWTOWN RD. OCCURRENCE IS ON WEST SIDE OF ROAD ON TOP OF BANK AND BANK SLOPE. MAPPED BY CNDDDB BASED ON 1994 FOSTER MAP IN THE SE 1/4 SE 1/4 SECTION 20.

Ecological: GRASSY SITES AT EDGE OF CHAPARRAL AND OAK WOODLAND. MAINLY ADENOSTOMA FASCICULATUM WITH SCATTERED PINUS SABINIANA. ASSOCIATES INCLUDE LOTUS, PLANTAGO LANCEOLATA, SALVIA SONOMENSIS, BROMUS TECTORUM, B. MOLLIS, AND TRIFOLIUM SPP.

General: IN 1994, 30 CLUMPS OF ABOUT 1-20 PLANTS EACH OBSERVED BY FOSTER. MOST PLANTS IN AREA THAT HAS NOT BEEN DISTURBED RECENTLY. 20-30 CLUMPS OF 1 OR MORE INDIVIDUALS OBSERVED IN 2004. 1 CLUMP REMAINED IN 2015.

Owner/Manager: PVT

Occurrence No.	12	Map Index: 49957	EO Index: 50044	Element Last Seen: 1923-05-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1923-05-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2003-01-29

Quad Summary: Placerville (3812067)

County Summary: El Dorado

Lat/Long:	38.72955 / -120.79770	Accuracy:	1 mile
UTM:	Zone-10 N4289067 E691435	Elevation (ft):	1860
PLSS:	T10N, R11E, Sec. 07 (M)	Acres:	0.0

Location: PLACERVILLE.

Detailed Location: EXACT LOCATION UNKNOWN; MAPPED IN GENERAL VICINITY OF PLACERVILLE BY CNDDDB.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1923 COLLECTION BY KING. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	14	Map Index: 13261	EO Index: 19428	Element Last Seen: 1880-05-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1880-05-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2014-04-08

Quad Summary: Omo Ranch (3812055)

County Summary: El Dorado

Lat/Long:	38.56906 / -120.56076	Accuracy:	1 mile
UTM:	Zone-10 N4271778 E712507	Elevation (ft):	3400
PLSS:	T08N, R13E, Sec. 05, SE (M)	Acres:	0.0

Location: BROWNSVILLE (SITE).

Detailed Location: NOT BROWNSVILLE OF BUTTE COUNTY.

Ecological:

General: THOUGH THIS PLANT IS IN FACT H. PARRYI, DAVID KECK BELIEVES THAT THE WRONG LABEL WAS ATTACHED TO THE SPECIMEN. RATTANS HAND-WRITTEN DETERMINATION ON THE LABEL IS H. TRIDENTATA. A BROWNSVILLE IN BUTTE CO. COULD HAVE CAUSED CONFUSION OF LOC.

Owner/Manager: PVT

Occurrence No.	21	Map Index: 50049	EO Index: 50049	Element Last Seen: 2012-10-31
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 2012-10-31
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2016-06-10

Quad Summary: Garden Valley (3812077)

County Summary: El Dorado

Lat/Long:	38.84148 / -120.75518	Accuracy:	specific area
UTM:	Zone-10 N4301580 E694826	Elevation (ft):	2675
PLSS:	T12N, R11E, Sec. 33, S (M)	Acres:	19.0

Location: UPPER HARRICKS RAVINE, DARLING RIDGE, ELDORADO NATIONAL FOREST.

Detailed Location: MAPPED BY CNDDDB AS 6 POLYGONS BASED ON DIGITAL DATA PROVIDED BY USFS, IN THE SOUTH 1/2 OF SECTION 33.

Ecological: GROWING IN AN ABANDONED ROAD WITHIN A PATCH OF ARCTOSTAPHYLOS VISCIDA. IT WAS ALSO GROWING WITH SALVIA SONOMENSIS. THE ARCTOSTAPHYLOS PATCH WAS SURROUNDED BY PINUS PONDEROSA FOREST.

General: 10 PLANTS SEEN IN 2002 BY WEISS. ABOUT 6293 PLANTS OBSERVED IN 2010, AND 3644 PLANTS OBSERVED IN 2012. ELDORADO NF POPULATION #1, 13, AND 14.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	34	Map Index:	72920	EO Index:	73800	Element Last Seen:	2015-10-21
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2015-10-21	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-06-10	

Quad Summary: Slate Mtn. (3812076)

County Summary: El Dorado

Lat/Long:	38.84453 / -120.72515	Accuracy:	specific area
UTM:	Zone-10 N4301983 E697425	Elevation (ft):	2800
PLSS:	T12N, R11E, Sec. 35, W (M)	Acres:	27.0

Location: ALONG FS ROAD 12N83A BETWEEN SLATE MTN MINE AND ROCK CREEK, NORTH OF WHALER CREEK.

Detailed Location: MAPPED AS 12 POLYGONS BY CNDDDB ACROSS EAST 1/2 OF SECTION 34 AND WEST 1/2 OF SECTION 35. THREE NE POLYGONS BASED ON 2005 WALKER GPS COORDINATES AND REST OF SITE MAPPED BASED ON 2015 ELDORADO NF DIGITAL DATA. ELDORADO NF POP #6, 7, 8.

Ecological: WITHIN MIXED CONIFER-BLACK OAK FOREST. ASSOCIATES INCLUDE ARBUTUS MENZIESII, PSEUDOTSUGA MENZIESII, ARCTOSTAPHYLOS VISCIDA, CEANOTHUS TOMENTOSUS, BERBERIS AQUIFOLIUM, SALVIA SONOMENSIS, ERIOPHYLLUM LANATUM, ETC. MAYMEN-MARIPOSA SOILS.

General: <506 PLANTS OBSERVED IN ENTIRE SITE IN 2005. ABOUT 300 PLANTS SEEN IN NORTHERN 4 POLYS IN 2008 AND 47 IN 2010. AN ESTIMATED 2888-3138 INDIVIDUALS OBSERVED ACROSS MOST OF SITE IN 2014 AND 3215+ RAMETS IN 2015. INCLUDES FORMER OCCURRENCE #35.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	36	Map Index:	72922	EO Index:	73802	Element Last Seen:	2015-10-XX
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2015-10-XX	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-06-10	

Quad Summary: Slate Mtn. (3812076)

County Summary: El Dorado

Lat/Long:	38.85743 / -120.71041	Accuracy:	specific area
UTM:	Zone-10 N4303446 E698668	Elevation (ft):	3000
PLSS:	T12N, R11E, Sec. 25, SW (M)	Acres:	4.0

Location: ALONG FS ROAD 11E31 JUST EAST OF BALLARAT CANYON.

Detailed Location: MAPPED BY CNDDDB AS 2 POLYGONS BASED ON 2015 ELDORADO NF DIGITAL DATA. MOST PLANTS ARE IN HEAVY SHADE OF MANZANITA. PLANTS FOUND IN A PLANTATION (ABOUT 20-30 YEARS OLD). FOUND IN NE 1/4 SE 1/4 SEC 26 AND NW 1/4 SW 1/4 SEC 25. USFS POP #9.

Ecological: PLANTATIONS OF PINES AND DOUGLAS-FIR WITH WHITELEAF MANZANITA. THERE ARE ALSO BLACK OAKS, CANYON OAKS, & OCCASIONAL TANOAK PRESENT. OTHER ASSOCIATES INCL BERBERIS AQUIFOLIUM DICTYOTA, CEANOTHUS TOMENTOSA, DENDROMECON RIGIDA, ETC.

General: UNKNOWN NUMBER OF PLANTS SEEN IN 2005. ABOUT 3000 PLANTS OBSERVED IN 2012. 159 CLUMPS OF ABOUT 6680 INDIVIDUALS OBSERVED IN 2015. THERE IS ADDITIONAL HABITAT IN THIS AREA THAT SHOULD BE SEARCHED.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	37	Map Index: 72923	EO Index: 73807	Element Last Seen:	2015-08-04
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2015-08-04
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-05-31

Quad Summary: Slate Mtn. (3812076), Garden Valley (3812077), Tunnel Hill (3812086), Georgetown (3812087)

County Summary: El Dorado

Lat/Long:	38.87401 / -120.75006	Accuracy:	specific area
UTM:	Zone-10 N4305202 E695182	Elevation (ft):	2900
PLSS:	T12N, R11E, Sec. 21, E (M)	Acres:	22.0

Location: ON FOREST SERVICE ROAD 12N89 AND 11E27 BETWEEN ROCK CREEK AND DUTCH CANYON, SW OF SUGARLOAF.

Detailed Location: PLANTS ARE GROWING ALONG THE EDGES OF THE MOTORCYCLE TRAIL. MAPPED BY CNDDDB AS 2 POLYGONS BASED ON 2015 ELDORADO NF DIGITAL DATA, IN THE EAST 1/2 OF SECTION 21. ELDORADO NF POPULATION #4.

Ecological: OPENINGS WITHIN MIXED CONIFER-BLACK OAK WOODLAND WITH SALVIA SONOMENSIS. SOILS ARE MARIPOSA VERY ROCKY SILT LOAM. 0-5% SLOPE, EAST ASPECT.

General: UNKNOWN NUMBER OF PLANTS SEEN IN 2003 & 2004. NORTH POLYGON: ABOUT 200 CLUMPS OBSERVED IN 2014, 82 CLUMPS IN 2015. SOUTH POLYGON: ABOUT 99 CLUMPS OBSERVED IN 2014, 69 CLUMPS IN 2015. SURVEYORS ESTIMATED ~100 INDIVIDUAL PLANTS/CLUMP.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	38	Map Index: 72924	EO Index: 73809	Element Last Seen:	2015-04-30
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2015-04-30
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-08

Quad Summary: Tunnel Hill (3812086)

County Summary: El Dorado

Lat/Long:	38.89955 / -120.74367	Accuracy:	specific area
UTM:	Zone-10 N4308050 E695666	Elevation (ft):	3000
PLSS:	T12N, R11E, Sec. 10, SW (M)	Acres:	6.0

Location: ALONG FOREST SERVICE ROAD 12N31, NORTH OF THE CONFLUENCE OF LITTLE SILVER CREEK AND ROCK CREEK, WEST OF BALD MTN.

Detailed Location: MAPPED AS TWO POLYGONS ACCORDING TO A 2005 GUTHRIE MAP AND 2015 USFS DIGITAL DATA, IN SW1/4 SEC 10. THERE IS A LOT OF POTENTIAL HABITAT IN THIS AREA AND MORE PLANTS MAY BE FOUND NEARBY. ELDORADO NF POPULATION #5.

Ecological: CHAPARRAL OPENINGS IN THE PINE OAK WOODLAND. SE POLYGON IS ON THE SLOPES OF A DRY DRAINAGE WHICH FLOWS INTO ROCK CREEK; ASSOCIATED WITH SALVIA SONOMENSIS. NW POLYGON IS ON AN OLD ROAD AND EXTENDS DOWN INTO A SHALLOW DRAINAGE.

General: NW POLYGON: >100 PLANTS SEEN IN 2005. SE POLYGON: UNKNOWN NUMBER OF PLANTS SEEN IN 2003, ABOUT 100 PLANTS SEEN IN 2005, 45 PLANTS IN 2009, 90 PLANTS IN 2012, UNKNOWN NUMBER SEEN IN 2015.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	43	Map Index:	79633	EO Index:	80623	Element Last Seen:	2004-03-31
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2004-03-31	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-06-07	

Quad Summary: Slate Mtn. (3812076)

County Summary: El Dorado

Lat/Long:	38.81384 / -120.67328	Accuracy:	specific area
UTM:	Zone-10 N4298690 E702013	Elevation (ft):	3350
PLSS:	T11N, R12E, Sec. 8, SW (M)	Acres:	13.0

Location: RIDGE FORMING THE WESTERN RIM OF DARK CANYON, 1 AIR MILE SSE OF THE LOOKOUT ON THE SUMMIT OF SLATE MOUNTAIN.

Detailed Location: MAPPED AS 2 POLYGONS BY CNDDDB BASED ON 2014 USFS DIGITAL DATA. ELDORADO NF POPULATION #3.

Ecological:

General: ABOUT 1050 PLANTS OBSERVED IN WEST POLYGON AND 50 PLANTS IN EAST POLYGON IN 2003. 2004 TAYLOR PHOTOS FROM "1 AIR MILE SSE OF LOOKOUT ON SUMMIT OF SLATE MOUNTAIN" ATTRIBUTED TO THIS SITE.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	46	Map Index:	A0310	EO Index:	101861	Element Last Seen:	2015-06-11
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2015-06-11	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-06-10	

Quad Summary: Slate Mtn. (3812076)

County Summary: El Dorado

Lat/Long:	38.79611 / -120.66182	Accuracy:	specific area
UTM:	Zone-10 N4296748 E703059	Elevation (ft):	3120
PLSS:	T11N, R12E, Sec. 17, SE (M)	Acres:	2.0

Location: ALONG FOREST SERVICE ROAD 12N56, ON RIDGE ABOUT 0.9 AIR MILE ENE OF CABLE POINT, ABOVE SOUTH FORK AMERICAN RIVER.

Detailed Location: MAPPED BY CNDDDB BASED ON 2015 ELDORADO NF DIGITAL DATA, IN THE SW 1/4 SE 1/4 SECTION 17.

Ecological: ADJACENT TO DESERTED OHV TRAIL AMONG THICK SHRUBS. ASSOCIATES INCLUDE ARCTOSTAPHYLOS VISCIDA, QUERCUS KELLOGGII, PSEUDOTSUGA MENZIESII, AND THE RARE ARCTOSTAPHYLOS NISSENANA. SITE BURNED BY KING FIRE IN 2014.

General: 45 PLANTS OBSERVED IN TWO PATCHES IN 2014, 150 INDIVIDUALS SCATTERED ALONG BOTH SIDES OF THE ROAD IN 2015. ELDORADO NF POPULATION #16-01.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	47	Map Index: A0311	EO Index: 101862	Element Last Seen:	2015-06-11
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2015-06-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-10
Quad Summary:	Slate Mtn. (3812076)				
County Summary:	El Dorado				
Lat/Long:	38.8054 / -120.65434		Accuracy:	specific area	
UTM:	Zone-10 N4297796 E703682		Elevation (ft):	3370	
PLSS:	T11N, R12E, Sec. 16, NW (M)		Acres:	3.0	
Location:	ALONG FOREST SERVICE ROAD 12N56, ON RIDGE BETWEEN SLAB CREEK AND BRUSH CREEK, ABOUT 1.5 AIR MILES NE OF CABLE POINT.				
Detailed Location:	MAPPED BY CNDDDB BASED ON 2015 ELDORADO NF DIGITAL DATA, IN THE NW 1/4 NW 1/4 SECTION 16.				
Ecological:	ADJACENT TO DESERTED OHV TRAIL AMONG THICK SHRUBS. ASSOCIATES INCLUDE ARCTOSTAPHYLOS VISCIDA, QUERCUS KELLOGGII, PSEUDOTSUGA MENZIESII, AND THE RARE ARCTOSTAPHYLOS NISSENANA. SITE BURNED BY KING FIRE IN 2014.				
General:	2000+ PLANTS OBSERVED IN 2014, UNKNOWN NUMBER OBSERVED IN 2015. ELDORADO NF POPULATION #16-02.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	48	Map Index: A0313	EO Index: 101864	Element Last Seen:	2006-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-08-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-07
Quad Summary:	Slate Mtn. (3812076)				
County Summary:	El Dorado				
Lat/Long:	38.80483 / -120.67449		Accuracy:	specific area	
UTM:	Zone-10 N4297688 E701934		Elevation (ft):	3120	
PLSS:	T11N, R12E, Sec. 18, NE (M)		Acres:	9.0	
Location:	ON SPUR ROAD OFF OF FOREST SERVICE ROAD 11N88, ON RIDGE ABOVE SLAB CREEK, ABOUT 0.9 AIR MILE NNE OF CABLE POINT.				
Detailed Location:	MAPPED BY CNDDDB BASED ON 2014 USFS DIGITAL DATA, IN THE NE 1/4 NE 1/4 SECTION 18.				
Ecological:					
General:	20 PLANTS OBSERVED IN 2006. NO PLANTS OBSERVED IN 2015; AREA SURVEYED AS PART OF KING FIRE SALVAGE SURVEYS. ELDORADO NF POPULATION #11-01 & 11-02.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	49	Map Index: A0314	EO Index: 101866	Element Last Seen:	2015-05-06
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-05-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-06
Quad Summary:	Slate Mtn. (3812076)				
County Summary:	El Dorado				
Lat/Long:	38.86455 / -120.73529		Accuracy:	specific area	
UTM:	Zone-10 N4304183 E696489		Elevation (ft):	3000	
PLSS:	T12N, R11E, Sec. 27, NE (M)		Acres:	2.0	
Location:	NORTH END OF SLATE MOUNTAIN, ABOUT 0.5 AIR MILE SOUTH OF BALD MOUNTAIN CANYON AND 0.6 AIR MILE EAST OF ROCK CREEK.				
Detailed Location:	MAPPED AS 2 POLYGONS BY CNDDDB BASED ON 2015 ELDORADO NF DIGITAL DATA, IN THE NW 1/4 NE 1/4 SECTION 27. ELDORADO NF POPULATION #10-01 & 10-02.				
Ecological:	GROWING IN MOIST SOIL ALONG OHV TRAIL, UNDER DENSE SHADE OF ARCTOSTAPHYLOS VISCIDA.				
General:	ABOUT 250 RAMETS (2 GENETS) OBSERVED IN NORTH POLYGON, AND 115 RAMETS (3 GENETS) IN SOUTH POLYGON IN 2015. ENDURO MOTORCYCLE RACE PASSED THROUGH THIS AREA BUT NO IMPACTS FROM EVENT WERE OBSERVED.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	50	Map Index: A0315	EO Index: 101875	Element Last Seen:	2010-06-21
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2010-06-21
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-06
Quad Summary:	Slate Mtn. (3812076), Garden Valley (3812077)				
County Summary:	El Dorado				
Lat/Long:	38.83386 / -120.75208		Accuracy:	specific area	
UTM:	Zone-10 N4300740 E695117		Elevation (ft):	2570	
PLSS:	T11N, R11E, Sec. 4, E (M)		Acres:	7.0	
Location:	ALONG FS RD 12NY01, ON RIDGE BETWEEN ROCK CREEK AND HARRICKS RAVINE, ABOUT 2.5 AIR MILES NORTH OF FINNON RESERVOIR.				
Detailed Location:	MAPPED AS 8 POLYGONS BY CNDDDB BASED ON 2008 ROBERTS COORDINATES AND 2014 USFS DIGITAL DATA, WITHIN THE EAST HALF OF SECTION 4. ELDORADO NF POPULATION #12.				
Ecological:	WEST AND SOUTH ASPECTS ON GENTLE SLOPES.				
General:	200 PLANTS DISCOVERED IN NW PORTION OF SITE IN 2008 AFTER TIMBER HARVEST. 130 PLANTS OBSERVED IN PORTION OF SITE IN 2009. 425+ PLANTS OBSERVED IN ALL BUT THE EAST-MOST POLYGON IN 2010.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	51	Map Index:	A0317	EO Index:	101876	Element Last Seen:	2010-06-23
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-06-23	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-06-02	

Quad Summary: Garden Valley (3812077)

County Summary: El Dorado

Lat/Long:	38.85209 / -120.75895	Accuracy:	80 meters
UTM:	Zone-10 N4302749 E694471	Elevation (ft):	2680
PLSS:	T12N, R11E, Sec. 33, NW (M)	Acres:	5.0

Location: ABOUT 0.6 AIR MILE WEST OF MOUTH OF DUTCH CANYON, ON DARLING RIDGE.

Detailed Location: MAPPED BY CNDDDB FROM USFS DIGITAL DATA, IN THE NE 1/4 OF THE NW 1/4 OF SECTION 33. ELDORADO NF POPULATION #15.

Ecological: EAST ASPECT, 5% SLOPE.

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 2010.

Owner/Manager: USFS-ELDORADO NF

<i>Viola tomentosa</i>		Element Code: PDVIO04280
felt-leaved violet		
Listing Status:	Federal: None	CNDDDB Element Ranks:
	State: None	Global: G3
	Other: Rare Plant Rank - 4.2	State: S3
Habitat:	General: LOWER MONTANE CONIFEROUS FOREST, SUBALPINE CONIFEROUS FOREST, UPPER MONTANE CONIFEROUS FOREST.	
	Micro: IN OPEN, CONIFER FOREST IN DRY, GRAVELLY SOILS. 1035-2015 M.	

Occurrence No.	1	Map Index:	25887	EO Index:	5331	Element Last Seen:	1977-08-14
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1977-08-14	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2007-09-24	

Quad Summary: Leek Spring Hill (3812063)

County Summary: El Dorado

Lat/Long:	38.70125 / -120.32139	Accuracy:	1/5 mile
UTM:	Zone-10 N4287031 E732935	Elevation (ft):	5650
PLSS:	T10N, R15E, Sec. 21, SW (M)	Acres:	0.0

Location: WEST OF ALDER CREEK ABOUT 0.5 AIR MI SOUTH OF MORRISON, EAST OF IRON MOUNTAIN.

Detailed Location: STEBBINS GIVES THE FOLLOWING DIRECTIONS: ABOVE ALDER CREEK, SOUTH OF MORRISON, ALTITUDE 5400-5600 FEET.

Ecological: OPENINGS IN JEFFREY PINE FOREST, ON DRY GRAVELLY GRANITIC SOIL.

General: A FEW HUNDRED PLANTS OBSERVED BY STEBBINS IN THE LATE 1970'S. MAP DETAIL NEEDED FOR THIS SITE.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	2	Map Index: 25886	EO Index: 5332	Element Last Seen:	197X-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	197X-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2007-09-24
Quad Summary:	Leek Spring Hill (3812063)				
County Summary:	El Dorado				
Lat/Long:	38.71213 / -120.32688		Accuracy:	2/5 mile	
UTM:	Zone-10 N4288224 E732423		Elevation (ft):	5200	
PLSS:	T10N, R15E, Sec. 17, SE (M)		Acres:	0.0	
Location:	NEAR CONFLUENCE OF ALDER CREEK AND NORTH CREEK NORTHWEST OF MORRISON, EAST OF IRON MOUNTAIN.				
Detailed Location:	STEBBINS GIVES THE FOLLOWING DIRECTIONS: ALONG ALDER CREEK, NW OF MORRISON, SECTIONS 16, 17, AND 21, ALTITUDE 5200-5300 FEET.				
Ecological:	DRY CONIFEROUS FOREST.				
General:	5000-10,000 PLANTS OBSERVED BY STEBBINS IN THE LATE 1970'S. MAP DETAIL AND THREAT UPDATES NEEDED FOR THIS OCCURRENCE.				
Owner/Manager:	PVT				
Occurrence No.	3	Map Index: 25888	EO Index: 5333	Element Last Seen:	1978-10-04
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1978-10-04
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-07-01
Quad Summary:	Old Iron Mountain (3812064)				
County Summary:	El Dorado				
Lat/Long:	38.64608 / -120.39112		Accuracy:	specific area	
UTM:	Zone-10 N4280732 E727045		Elevation (ft):	5150	
PLSS:	T09N, R14E, Sec. 11, E (M)		Acres:	58.1	
Location:	CAPPS CROSSING ON THE NORTH FORK COSUMNES RIVER.				
Detailed Location:	SEVERAL POPULATIONS FROM CAPPS CROSSING EASTWARD FOR ABOUT 1 MILE BETWEEN THE ROAD AND THE CREEK. WITHIN SECTIONS 11 AND 12.				
Ecological:	GROWING IN OPEN CONIFEROUS FOREST ON DRY GRAVELLY GRANITIC SOIL. PLANTS ARE FOUND IN DRY ROCKY AREAS LARGELY DEVOID OF COMPETING VEGETATION.				
General:	STEBBINS ESTIMATED THAT THE MINIMUM NUMBER OF PLANTS AT THIS SITE WAS 5000 IN THE LATE 1970'S. PREVIOUSLY COLLECTED AT THIS SITE IN 1944 BY G.T. ROBBINS (#1731 CAS) ALSO KNOWN FROM 1978 OBSERVATION BY BAAD. USFS POPULATION #03-01.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	4	Map Index: 25889	EO Index: 8723	Element Last Seen:	1972-06-28
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1972-06-28
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2007-09-24
Quad Summary:	Kyburz (3812073)				
County Summary:	El Dorado				
Lat/Long:	38.87193 / -120.34039		Accuracy:	nonspecific area	
UTM:	Zone-10 N4305927 E730732		Elevation (ft):	5200	
PLSS:	T12N, R15E, Sec. 19, S (M)		Acres:	117.0	
Location:	ALONG JONES FORK SILVER CREEK SOUTH OF CHEESE CAMP RIDGE, NORTH OF ICE HOUSE RESERVOIR.				
Detailed Location:	MAPPED ALONG JONES FORK, SOUTH OF CHEESE CAMP RIDGE AT 5200' ELEVATION.				
Ecological:	GROWING IN OPEN CONIFEROUS FOREST ON DRY GRAVELLY SOIL.				
General:	ONLY SOURCE OF INFORMATION IS 1972 COLLECTION BY STEBBINS. MAP DETAIL, ECOLOGICAL, OWNERSHIP, AND THREAT INFORMATION NEEDED FOR THIS OCCURRENCE.				
Owner/Manager:	UNKNOWN				
Occurrence No.	5	Map Index: 25895	EO Index: 7392	Element Last Seen:	1991-07-09
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1991-07-09
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-07-06
Quad Summary:	Kyburz (3812073)				
County Summary:	El Dorado				
Lat/Long:	38.86922 / -120.28771		Accuracy:	specific area	
UTM:	Zone-10 N4305760 E735312		Elevation (ft):	6250	
PLSS:	T12N, R15E, Sec. 22, SW (M)		Acres:	5.0	
Location:	JUST EAST OF THE CONFLUENCE FOR BIG SILVER CREEK AND UNNAMED STREAM, NORTH OF FOUR CORNERED PEAK.				
Detailed Location:	ON GRANITE HILLSIDE NORTH OF UNNAMED STREAM, NORTH OF USFS ROAD 12N68F. NEAR THE CENTER OF THE SW 1/4 OF SECTION 22.				
Ecological:	GROWING ON OPEN SLOPE OF DECOMPOSED GRANITE. ASSOCIATES INCLUDE PINUS JEFFREYI, CALOCEDRUS, ARCTOSTAPHYLOS SPP., QUERCUS VACCINIFOLIA, STREPTANTHUS, LINANTHUS, MADIA, CALOCHORTUS, PENSTEMON, GILIA, TRITELEIA, GAYOPHYTUM, PTERYXIA, ET AL.				
General:	2-3 PLANTS/SQUARE METER OBSERVED OVER 20 ACRES IN 1991. USFS POPULATION #03-7.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	6	Map Index: 25893	EO Index: 16453	Element Last Seen: 197X-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 197X-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1994-06-16

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.85184 / -120.27293	Accuracy:	1/5 mile
UTM:	Zone-10 N4303870 E736653	Elevation (ft):	6200
PLSS:	T12N, R15E, Sec. 26, S (M)	Acres:	0.0

Location: ALONG JONES FORK SILVER CREEK NORTHEAST OF TABLE ROCK, ABOUT 1 AIR MILE SOUTHEAST OF FOUR CORNERED PEAK.

Detailed Location: WITHIN SECTIONS 26 AND 27 ACCORDING TO STEBBINS.

Ecological: DRY, OPEN CONIFEROUS FOREST WHERE GRANITIC SLABS SLOPE DOWN TO THE ALLUVIUM AND RIPARIAN FOREST.

General: POPULATION SIZE ESTIMATED AT 700 PLANTS IN LATE 1970'S.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	7	Map Index: 25892	EO Index: 16457	Element Last Seen: 197X-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 197X-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1995-10-23

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.84344 / -120.30349	Accuracy:	2/5 mile
UTM:	Zone-10 N4302858 E734027	Elevation (ft):	5800
PLSS:	T12N, R15E, Sec. 33 (M)	Acres:	0.0

Location: ALONG JONES FORK SILVER CREEK WEST OF TABLE ROCK, ABOUT 1 AIR MILE NORTHWEST OF WINDMILLER CABIN.

Detailed Location: STEBBINS DESCRIBES THREE POPULATIONS IN THIS AREA, EACH SEPARATED BY A DISTANCE OF ABOUT 0.25 MILE.

Ecological: GROWING IN OPENINGS OF DRY CONIFEROUS FOREST ON DRY GRAVELLY SOIL.

General: 4500-5000 PLANTS ESTIMATED BY STEBBINS IN LATE 1970'S. MAP DETAIL AND POTENTIAL THREATS NEEDED FOR THIS OCCURRENCE.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	8	Map Index: 25891	EO Index: 16456	Element Last Seen: XXXX-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: XXXX-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1994-06-16

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.83124 / -120.33949	Accuracy:	2/5 mile
UTM:	Zone-10 N4301413 E730942	Elevation (ft):	5600
PLSS:	T11N, R15E, Sec. 06, N (M)	Acres:	0.0

Location: NORTH SIDE OF ICE HOUSE RESERVOIR ABOUT 2 AIR MILES SOUTHEAST OF JONES PLACE.

Detailed Location: NEAR CAL AGGIE CAMP.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS OBSERVATION BY M. HUDSON (DATE UNKNOWN) REFERRED TO IN STEBBINS REPORT. MAP DETAIL, ECOLOGICAL, AND THREAT INFORMATION NEEDED FOR THIS SITE.

Owner/Manager: PVT



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	9	Map Index: 25894	EO Index: 7393	Element Last Seen: 1992-09-28
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen: 1992-09-28
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1994-07-06

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.85404 / -120.36773	Accuracy:	specific area
UTM:	Zone-10 N4303872 E728417	Elevation (ft):	4950
PLSS:	T12N, R14E, Sec. 25, SW (M)	Acres:	8.4

Location: NORTHEAST OF JONES PLACE, SOUTH OF JONES FORK SILVER CREEK.

Detailed Location: TWO COLONIES NEAR INTERSECTION OF USFS ROADS 12N28 AND 12N28A; ONE ALONG SPUR ROAD JUST WEST OF THE INTERSECTION, THE OTHER ALONG 12N28A ABOUT 0.2 MILE FROM 12N28.

Ecological: GROWING IN OPENINGS OF MATURE JEFFREY PINE FOREST ON SANDY SOILS. ASSOCIATED WITH PINUS JEFFREYI, LUPINUS BREWERI PARVULUS, HORKELIA FUSCA, AND SITANON HYSTRIX. ABOUT 50% OF THE AREA IS BARE GROUND.

General: 10,000 PLANTS OBSERVED BY STEBBINS IN LATE 1970'S. USFS POPULATION #03-5, "BOSWORTH TIMBER SALE".

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	10	Map Index: 25890	EO Index: 16454	Element Last Seen: 197X-XX-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 197X-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2007-09-24

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.84720 / -120.37026	Accuracy:	1/5 mile
UTM:	Zone-10 N4303106 E728219	Elevation (ft):	4900
PLSS:	T12N, R14E, Sec. 35, NE (M)	Acres:	0.0

Location: BETWEEN JONES PLACE AND CRYSTAL BASIN USFS STATION, NORTHWEST OF ICE HOUSE RESERVOIR.

Detailed Location: MAPPED WITHIN THE NE 1/4 OF THE NE 1/4 OF SECTION 35.

Ecological: PLANTS GROWING IN DEEP SANDY AND GRAVELLY SOIL WITHIN A FOREST THAT HAS BEEN LOGGED.

General: 15,000 PLANTS ESTIMATED BY STEBBINS IN THE LATE 1970'S. PLANTS CONSIDERED ABUNDANT AND LUXURIANT. NEED MAP DETAIL.

Owner/Manager: PVT



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	11	Map Index: 25896	EO Index: 18361	Element Last Seen: 1992-06-18
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1992-06-18
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2007-09-24
Quad Summary:	Kyburz (3812073)			
County Summary:	El Dorado			
Lat/Long:	38.81459 / -120.26412		Accuracy: specific area	
UTM:	Zone-10 N4299758 E737541		Elevation (ft): 6600	
PLSS:	T11N, R16E, Sec. 07, W (M)		Acres: 3.8	
Location:	SOUTHWEST OF WILSON RANCH ALONG SOUTH FORK SILVER CREEK, JUST WEST OF CONFLUENCE WITH LYONS CREEK.			
Detailed Location:	MAPPED WITHIN THE CENTER OF THE W 1/2 OF SECTION 11, ALONG EITHER SIDE OF THE ROAD LEADING SOUTHWEST FROM WILSON RANCH. ONE SIDE OF THE ROAD IS A SMALL PLANTATION, THE OTHER IS UNDISTURBED.			
Ecological:	GROWING ON SANDY GRAVELLY SOILS WITHIN A RECENTLY PLANTED PLANTATION. ASSOCIATED WITH PINUS CONTORTA MURRAYANA, PTERIDIUM AQUILINUM, ANAPHALIS MARGARITACEA, SITION HYSTRIX, MONARDELLA ODORATISSIMA, ASTRAGALUS BOLANDERI, AND LUPINUS.			
General:	ABOUT 400 PLANTS IN TWO COLONIES OBSERVED IN 1992. USFS POPULATION #03-10, "HERBICIDE UNIT 518-16".			
Owner/Manager:	USFS-ELDORADO NF			
Occurrence No.	12	Map Index: 25910	EO Index: 13732	Element Last Seen: 1991-06-06
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1991-06-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2007-09-24
Quad Summary:	Riverton (3812074), Loon Lake (3812083), Robbs Peak (3812084)			
County Summary:	El Dorado			
Lat/Long:	38.87472 / -120.38832		Accuracy: nonspecific area	
UTM:	Zone-10 N4306116 E726564		Elevation (ft): 4900	
PLSS:	T12N, R14E, Sec. 22 (M)		Acres: 197.2	
Location:	EAST SHORE OF UNION VALLEY RESERVOIR.			
Detailed Location:	MAPPED ALONG THE NORTH SHORE OF THE PENINSULA AT THE EAST END OF THE LAKE. SCATTERED ALONG SHORE, INTERMITTENTLY, FOR ABOUT 1.25 MILES.			
Ecological:	GROWING IN ASSOCIATION WITH PINUS PONDEROSA, P. LAMBERTIANA, P. MURRAYANA, ABIES CONCOLOR, CALOCDRUS, HORKELIA FUSCA, VIOLA PURPUREA, BROMUS TECTORUM, STREPTANTHUS, COLLINSIA, RUMEX ANGIOCARPUS, AND MADIA. SOILS ARE LOOSE, NOT VERY ROCKY.			
General:	5000 PLANTS REPORTED BY STEBBINS IN 1979; 500 PLANTS SEEN AROUND THE BOAT RAMP IN 1991. MAP DETAIL NEEDED FOR THIS SITE.			
Owner/Manager:	USFS-ELDORADO NF			



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	13	Map Index: 25916	EO Index: 18357	Element Last Seen:	1993-05-10
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	1993-05-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-07-06
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.85168 / -120.44667		Accuracy:	80 meters	
UTM:	Zone-10 N4303416 E721573		Elevation (ft):	3400	
PLSS:	T12N, R14E, Sec. 30, SE (M)		Acres:	0.0	
Location:	SOUTH FORK SILVER CREEK OPPOSITE POTTS CABIN, SOUTHWEST OF UNION VALLEY RESERVOIR.				
Detailed Location:	NORTH SIDE OF CREEK; EAST OF USFS ROAD 12N30.2, WITHIN THE S 1/2 OF THE SE 1/4 OF SECTION 30.				
Ecological:	GROWING ALONG A ROCKY RIDGETOP WITH PHACELIA STEBBINSII ON METAMORPHIC ROCK RUBBLE. OTHER ASSOCIATES INCLUDE PINUS PONDEROSA, PSEUDOTSUGA, ERIOGONUM NUDUM, ARCTOSTAPHYLOS PATULA, CHLOROGALUM POMERIDIANIUM, AND PELLAEA BRIDGESII.				
General:	ONLY 5 PLANTS OBSERVED IN 1993. SITE HAS SLIGHTLY DIFFERENT HABITAT THAN USUAL ACCORDING TO BARRON. USFS POPULATION #03-18, "SOUTH FORK SILVER CREEK BRIDGE".				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	14	Map Index: 25909	EO Index: 18358	Element Last Seen:	1993-05-26
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1993-05-26
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2007-09-24
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.84068 / -120.44128		Accuracy:	specific area	
UTM:	Zone-10 N4302208 E722075		Elevation (ft):	4680	
PLSS:	T12N, R14E, Sec. 32, SW (M)		Acres:	10.0	
Location:	ALONG THE SOUTH FORK OF SILVER CREEK ABOUT 0.3 TO 0.9 AIR MILE NORTH OF CONFLUENCE WITH BIG HILL CANYON.				
Detailed Location:	MAPPED AS THREE POLYGONS ON BOTH SIDES OF THE CREEK WITHIN THE SW 1/4 SECTION 32.				
Ecological:	WITHIN MIXED CONIFER FOREST ON SANDY SOILS. ASSOCIATED WITH PSEUDOTSUGA, CALOCEDRUS, PINUS LAMBERTIANA, ABIES CONCOLOR, APOCYNUM, STELLARIA, LONICERA, DENTARIA, SMILACINA, PEDICULARIS, SENECIO, TRITELEIA, DELPHINIUM, AND CALOCHORTUS.				
General:	FEWER THAN 250 PLANTS OBSERVED OVER LESS THAN 0.1 ACRE IN 1993. USFS POPULATION #03-19, "BETWEEN THE STREAMS".				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	15	Map Index: 25911	EO Index: 18360	Element Last Seen: 1993-05-10
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1993-05-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1994-07-06
Quad Summary:	Riverton (3812074)			
County Summary:	El Dorado			
Lat/Long:	38.84084 / -120.44937		Accuracy: specific area	
UTM:	Zone-10 N4302206 E721373		Elevation (ft): 4950	
PLSS:	T12N, R14E, Sec. 31, SE (M)		Acres: 20.9	
Location:	ALONG BOTH SIDES OF ROAD BETWEEN BRYANTS SPRING AND POTTS CABIN, ABOUT 0.7 AIR MILE SOUTH OF POTTS CABIN.			
Detailed Location:	ON EITHER SIDE OF USFS ROAD 12N30.2 (BRYANTS SPRING ROAD), EAST OF 12N37. WITHIN THE NW 1/4 OF THE SE 1/4 OF SECTION 31.			
Ecological:	GROWING IN RELATIVELY OPEN MEADOW WHICH HAS BEEN SOMEWHAT ENCROACHED BY TREES. ASSOCIATED WITH ALLIUM OBTUSUM, NAVARRETIA DIVARICATA, VIOLA PURPUREA, SANICULA TUBEROSA, SENECIO, HORKELIA, AND ARCTOSTAPHYLOS.			
General:	500-1000 PLANTS OBSERVED OVER AN AREA OF 200' X 500' IN 1993. USFS POPULATION #03-17, "CAN DUMP".			
Owner/Manager:	USFS-ELDORADO NF			
Occurrence No.	16	Map Index: 25917	EO Index: 5570	Element Last Seen: 1993-05-10
Occ. Rank:	Poor		Presence: Presumed Extant	Site Last Seen: 1993-05-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1994-07-06
Quad Summary:	Riverton (3812074)			
County Summary:	El Dorado			
Lat/Long:	38.83540 / -120.45411		Accuracy: 80 meters	
UTM:	Zone-10 N4301591 E720978		Elevation (ft): 4950	
PLSS:	T12N, R14E, Sec. 31, SW (M)		Acres: 0.0	
Location:	WEST SIDE OF THE ROAD BETWEEN BRYANTS SPRING AND POTTS CABIN, ABOUT 0.7 AIR MI NORTH OF BRYANTS SPRING.			
Detailed Location:	ALONG USFS ROAD 12N30.2 (BRYANTS SPRING ROAD) ABOUT 0.25 MILE SOUTH OF JUNCTION WITH 12N37. WITHIN THE SE 1/4 OF THE SW 1/4 OF SECTION 31.			
Ecological:	GROWING IN LOOSE SOIL WHICH HAD BEEN PUSHED UP FOR DRAINAGE CULVERT INSTALLATION. AREA WAS WHITE FIR AND CEDAR FOREST PRIOR TO 1992 CLEVELAND FIRE. SOILS APPEAR METAMORPHIC BUT ARE MAPPED AS LEDMOUNT.			
General:	ONLY A FEW PLANTS, IMMATURE AND NOT IN FLOWER, WERE OBSERVED IN 1993. USFS POPULATION #03-17.			
Owner/Manager:	USFS-ELDORADO NF			



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	17	Map Index: 25912	EO Index: 13738	Element Last Seen: 1993-05-26
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1993-05-26
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1994-07-06

Quad Summary: Riverton (3812074)

County Summary: El Dorado

Lat/Long:	38.82755 / -120.44665	Accuracy:	specific area
UTM:	Zone-10 N4300737 E721650	Elevation (ft):	4700
PLSS:	T11N, R14E, Sec. 06, SE (M)	Acres:	6.1

Location: ALONG THE SOUTH FORK SILVER CREEK ABOUT 0.5 AIR MILE SOUTHWEST OF CONFLUENCE WITH BIG HILL CANYON.

Detailed Location: TWO COLONIES ALONG THE EAST SIDE OF THE CREEK DUE EAST OF BRYANTS SPRING.

Ecological: GROWING ON DECOMPOSED GRANITE ASSOCIATED WITH METAMORPHIC ROCKS. ASSOCIATED WITH APOCYNUM, STELLARIA, LONICERA, DENTARIA, SMILACINA, PEDICULARIS, SENECIO, TRITELEIA, MYRICA, DELPHINIUM, CALOCHORTUS, AND CICUTA.

General: ENTIRE POPULATION OF SOUTH FORK SILVER CREEK (OCCURRENCES #13, 14, 17) ESTIMATED TO BE 500-1500 PLANTS IN 1993. USFS POPULATION #03-20, "SOUTH FORK SILVER CREEK".

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	18	Map Index: 25913	EO Index: 13733	Element Last Seen: 1992-05-21
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1992-05-21
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2007-09-24

Quad Summary: Riverton (3812074)

County Summary: El Dorado

Lat/Long:	38.81317 / -120.46275	Accuracy:	specific area
UTM:	Zone-10 N4299102 E720296	Elevation (ft):	5050
PLSS:	T11N, R14E, Sec. 07, NW (M)	Acres:	10.6

Location: ALONG RIDGE EAST OF CEDAR SPRING, NORTH OF PEAVINE RIDGE.

Detailed Location: ON RIDGETOP BETWEEN USFS ROAD 11N60.1 AND 11N62, ABOUT 0.5 MILE NORTH OF 11N55.1. THIS POPULATION STRADDLES THE CENTER OF THE SECTION LINE BETWEEN SECTIONS 7 AND 12.

Ecological: GROWING ON EDGES AND WITHIN A PLANTATION. ASSOCIATED WITH PINUS PONDEROSA, ABIES CONCOLOR, CALOCEDRUS, CEANOTHUS CORDULATUS, PRUNUS EMARGINATA, ARCTOSTAPHYLOS PATULA, AMELIANCHIER, RIBES, VIOLA PURPUREA, SENECIO, SANICULA, AND VICIA.

General: PLANTS WIDELY SCATTERED IN OPEN AREAS. USFS POPULATION #03-9, "CEDAR SPRING".

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	19	Map Index: 25918	EO Index: 18364	Element Last Seen: 1990-06-21
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen: 1990-06-21
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1994-07-06

Quad Summary: Riverton (3812074)

County Summary: El Dorado

Lat/Long:	38.82198 / -120.47209	Accuracy:	80 meters
UTM:	Zone-10 N4300058 E719458	Elevation (ft):	4950
PLSS:	T11N, R13E, Sec. 01, SE (M)	Acres:	0.0

Location: NORTH SIDE OF ROAD TO JAY BIRD POWERHOUSE (USFS ROAD 11N60.1) ABOUT 0.9 AIR MI NNW OF CEDAR SPRING, N OF PEAVINE RIDGE.

Detailed Location: NORTH OF USFS 11N60.1 AND EAST OF 11N60B, NEAR USGS ELEVATION MARKER "4951".

Ecological: GROWING IN THE OPEN ALONG THE ROADSIDE IN THE LOOSENEED SOILS OF THE ROAD BERM. SURROUNDING VEGETATION IS PINE/OAK/CEDAR FOREST. PLANTS NOT FOUND UNDER THE TREES IN THE HEAVY PINE NEEDLE DUFF.

General: FEWER THAN 50 PLANTS OBSERVED OVER AN AREA OF 20 X 50 METERS IN 1990. USFS POPULATION #03-6.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	20	Map Index: 25914	EO Index: 18365	Element Last Seen: 1993-05-05
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1993-05-05
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2007-09-24

Quad Summary: Riverton (3812074)

County Summary: El Dorado

Lat/Long:	38.80316 / -120.43999	Accuracy:	specific area
UTM:	Zone-10 N4298047 E722304	Elevation (ft):	5100
PLSS:	T11N, R14E, Sec. 17, NW (M)	Acres:	16.1

Location: NORTH SIDE OF PEAVINE RIDGE ROAD BETWEEN ROADS LEADING TO BRYANTS SPRING AND CHICKEN HAWK SPRING, PEAVINE RIDGE.

Detailed Location: FOUR COLONIES MAPPED ALONG USFS ROAD 11N55.1, FROM ABOUT 0.1 MILE EAST OF 12N30.2 TO ABOUT 0.3 MILE WEST OF "B" SPUR. USFS POPULATION #03-16.

Ecological: GROWING IN "MCCARTHY MEADOW". ASSOCIATED WITH PINUS JEFFREYI, CALOEDRUS, QUERCUS CHRYSOLEPIS, ARCTOSTAPHYLOS SPP., ALLIUM SPP., NAVARRETIA DIVARICATA, CALYPTRIDIUM UMBELLATUM, POA SCABRELLA, CALOCHORTUS, VIOLA PURPUREA, AGOSERIS, ET AL.

General: POPULATION CONSISTS OF SMALL, MATURE PLANTS. SIZE MAY BE ATTRIBUTED TO HAVING BEEN BURNED IN 1992. BARRON COLLECTED SPECIMENS, SUGGESTS THIS POPULATION MAY BE OF HYBRID ORIGIN. SITE FIRST REPORTED BY M. HUDSON IN THE LATE 1970'S.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	21	Map Index: 25919	EO Index: 13515	Element Last Seen:	1993-05-05
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	1993-05-05
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-07-06
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.79774 / -120.40183		Accuracy:	1/5 mile	
UTM:	Zone-10 N4297539 E725635		Elevation (ft):	5250	
PLSS:	T11N, R14E, Sec. 15, SW (M)		Acres:	0.0	
Location:	INTERSECTION OF PEAVINE ROAD AND THE ROAD TO SILVER CREEK CAMPGROUND, PEAVINE RIDGE.				
Detailed Location:	MAP DETAIL NOT PROVIDED; STEWART'S DIRECTIONS "AT CORNER OF NORTHERN BOUNDARY INTERSECTION WITH PARALLEL RD TO PEAVINE RIDGE RD (RECENTLY IMPROVED)". NW 1/4 OF THE SW 1/4 OF SECTION 15.				
Ecological:	YOUNG PONDEROSA PINE PLANTATION. ASSOCIATED WITH ARCTOSTAPHYLOS, CEANOTHUS, VIOLA PURPUREA, VICIA, SANICULA, BRODIAEA, CALYPTRIDUM UMBELLATUM, RIBES, AND ALLIUM.				
General:	60-80 PLANTS OBSERVED IN 1993. POPULATION SEEMS TO BE RECOVERING WITHIN DISTURBED AREA. USFS POPULATION #03-15.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	22	Map Index: 25915	EO Index: 13734	Element Last Seen:	1993-09-18
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1993-09-18
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-07-06
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.81639 / -120.38327		Accuracy:	specific area	
UTM:	Zone-10 N4299655 E727188		Elevation (ft):	5270	
PLSS:	T11N, R14E, Sec. 11, NW (M)		Acres:	17.1	
Location:	BOTH SIDES OF TRIBUTARY TO SOUTH FORK SILVER CREEK WEST OF SILVER CREEK CAMPGROUND, SSE OF BIG HILL LOOKOUT.				
Detailed Location:	WEST SIDE OF SOUTH FORK SILVER CREEK ON USFS PROPERTY WHICH IS SURROUNDED BY PRIVATE PROPERTY. WITHIN THE SW 1/4 OF THE NW 1/4 OF SECTION 11 AND THE SE 1/4 OF THE NE 1/4 OF SECTION 12.				
Ecological:	GROWING ON DECOMPOSED GRANITE SOILS ALONG A STREAMSIDE TERRACE. ASSOCIATED WITH PINUS JEFFREYI, ARCTOSTAPHYLOS PATULA, PINUS CONTORTA MURRAYANA, AND HORKELIA TRIDENTATA.				
General:	1000 OR MORE PLANTS OBSERVED OVER 20 ACRES IN 1993. PLANTS DOING WELL DESPITE DISTURBANCES. USFS POPULATION #03-21, "SILVER CREEK CAMP".				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	23	Map Index: 25903	EO Index: 18343	Element Last Seen:	197X-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	197X-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2007-09-25

Quad Summary: Loon Lake (3812083)

County Summary: El Dorado

Lat/Long:	38.98722 / -120.36999	Accuracy:	1/5 mile
UTM:	Zone-10 N4318649 E727794	Elevation (ft):	5500
PLSS:	T13N, R14E, Sec. 11, E (M)	Acres:	0.0

Location: ALONG RIDGE SOUTH OF ROCKY BASIN CREEK NEAR FRANCIS COW CAMP, WEST OF LOON LAKE.

Detailed Location: ON DRY RIDGE, JUST SOUTH OF CREEK.

Ecological: ON DRY RIDGE IN OPEN FOREST WITH SANDY GRANITIC SOILS.

General: 50 PLANTS OBSERVED IN LATE 1970'S. MAP DETAIL AND THREAT INFORMATION NEEDED FOR THIS SITE.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	24	Map Index: 25904	EO Index: 13726	Element Last Seen:	1979-06-30
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	1979-06-30
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2007-09-24

Quad Summary: Loon Lake (3812083)

County Summary: El Dorado

Lat/Long:	38.95042 / -120.36582	Accuracy:	specific area
UTM:	Zone-10 N4314575 E728274	Elevation (ft):	5400
PLSS:	T13N, R14E, Sec. 26, NE (M)	Acres:	38.8

Location: SOUTH OF THE SOUTH FORK RUBICON RIVER ABOUT 1.5 AIR MILES SOUTHWEST OF SCHLEIN RANGER STATION, SOUTHWEST OF LOON LAKE.

Detailed Location: MAPPED BETWEEN THE RIVER AND USFS ROAD 13N64.

Ecological: OPEN, FLAT AREAS OF GRAVELLY, WELL DRAINED SOIL WITHIN OPENINGS OF INCENSE CEDAR AND PONDEROSA PINE FOREST. UNDERSTORY OF MANZANTIA, SMALL AMOUNT OF PINE NEEDLE DUFF. VERY LITTLE HERBACEOUS COVER IN THE OPENINGS.

General: 4000+ PLANTS OBSERVED IN 1979. THE PLANTS ARE VERY DENSE IN MANY SPOTS AND WELL DISTRIBUTED IN AREA MAPPED; THERE ARE ALSO LOCALIZED PATCHES OUTSIDE THE MAPPED AREA. MAP DETAIL NEEDED FOR THE OUTLYING PATCHES. USFS POPULATION #03-3.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	25	Map Index: 25906	EO Index: 13722	Element Last Seen:	1991-08-28
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	1991-08-28
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-07-07

Quad Summary: Loon Lake (3812083)

County Summary: El Dorado

Lat/Long:	38.91574 / -120.30576	Accuracy:	specific area
UTM:	Zone-10 N4310878 E733593	Elevation (ft):	6250
PLSS:	T12N, R15E, Sec. 04, NW (M)	Acres:	9.3

Location: ALONG SUN ROCK TRAIL SOUTH OF UPPER BASSI RANCH, ABOUT 4.5 AIR MILES SOUTH OF LOON LAKE.

Detailed Location: TWO COLONIES; ONE IS MAPPED ALONG THE TRAIL ABOUT 400 METERS FROM BASSI FORK TRAIL CROSSING, THE OTHER IS MAPPED ABOUT 400 METERS ENE OF THE FIRST.

Ecological: GROWING ON A LOW GRANITE RIDGE WITH LOOSE, DECOMPOSED GRANITE SOIL. ASSOCIATED WITH ARCTOSTAPHYLOS PATULA, A. NEVADENSIS, ERIOGONUM NUDUM, E. MARIFLOIUM, STREPTANTHUS, APOCYNUM, JUNCUS PARRYI, AND ALLIUM CAMPANULATUM.

General: ONLY A FEW PLANTS NOTICED IN EITHER COLONY IN 1991. USFS POPULATION #03-8.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	26	Map Index: 25905	EO Index: 5329	Element Last Seen:	1993-08-18
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	1993-08-18
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-07-07

Quad Summary: Loon Lake (3812083)

County Summary: El Dorado

Lat/Long:	38.90395 / -120.32611	Accuracy:	specific area
UTM:	Zone-10 N4309517 E731867	Elevation (ft):	6200
PLSS:	T12N, R15E, Sec. 08, NW (M)	Acres:	11.3

Location: SOUTH OF THE ROAD BETWEEN WENCH FLAT AND UPPER BASSI RANCH, ABOUT 0.8 AIR MILE NNE OF BASSI FALLS.

Detailed Location: TWO COLONIES ALONG THE RIDGETOP ABOVE THE ROAD.

Ecological: GROWING WITHIN OPENINGS IN DRY, MIXED CONIFER FOREST ON DECOMPOSED GRANITE. ASSOCIATED WITH PINUS JEFFREYI, CALOCEDRUS, QUERCUS KELLOGGII, Q. VACCINIFOLIA, ABIES CONCOLOR, ARCTOSTAPHYLOS SPP, PHACELIA, ERIOGONUM, LINANTHUS, PENSTEMON, ETC.

General: 40 PLANTS OBSERVED IN THE WESTERN COLONY AND 60 PLANTS OBSERVED IN THE EASTERN COLONY IN 1993. TOTAL AREA IS ABOUT 1 ACRE. USFS POPULATION #03-22, "DIVERSITY RIDGE".

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	27	Map Index: 25907	EO Index: 5328	Element Last Seen: 1992-10-28
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1992-10-28
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1994-07-07

Quad Summary: Loon Lake (3812083)
County Summary: El Dorado

Lat/Long:	38.89315 / -120.33045	Accuracy:	80 meters
UTM:	Zone-10 N4308307 E731526	Elevation (ft):	5500
PLSS:	T12N, R15E, Sec. 17, NW (M)	Acres:	0.0

Location: NORTH SIDE OF BASSI FORK AT BASSI FALLS, ABOUT 2 MILES EAST OF UNION VALLEY RESERVIOR.
Detailed Location: FOUND IN OPEN SANDY AREAS AMONG FLAT GRANITE ROCKS JUST NORTH OF THE FALLS. MAPPED WITHIN THE EXTREME NW CORNER OF SECTION 17.
Ecological: OPEN AREA WITH MUCH GRANITE BEDROCK SHOWING. SURROUNDING TREES INCLUDE QUERCUS KELLOGII, PINUS JEFFREYI, AND CALOCEDRUS. HERBACEOUS ASSOCIATES INCLUDE HORKELIA, PHLOX, ARCTOSTAPHYLOS, ERIOGONUM, CHEILANTHES, SEDUM, SELAGINELLA, ET AL.
General: ABOUT 50 PLANTS SEEN IN LATE 1970'S BY STEBBINS, FEWER THAN 50 PLANTS OBSERVED OVER A 50' X 50' AREA IN 1992. PLANTS WERE OBSERVED LATE IN THE SEASON IN 1992, MORE MAY BE EVIDENT EARLIER IN THE YEAR. USFS POPULATION #03-14, "BASSI FALLS".
Owner/Manager: USFS-ELDORADO NF

Occurrence No.	28	Map Index: 25908	EO Index: 5327	Element Last Seen: 197X-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 197X-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2007-09-24

Quad Summary: Loon Lake (3812083)
County Summary: El Dorado

Lat/Long:	38.88109 / -120.34643	Accuracy:	1/10 mile
UTM:	Zone-10 N4306928 E730178	Elevation (ft):	5100
PLSS:	T12N, R15E, Sec. 18, SW (M)	Acres:	0.0

Location: BIG SILVER CREEK ALONG EITHER SIDE OF CONFLUENCE WITH BASSI FORK, EAST OF UNION VALLEY RESERVOIR.
Detailed Location:
Ecological: GROWING IN GRAVELLY GRANITIC SOIL AMONG PINUS JEFFREYI.
General: ABOUT 600 PLANTS OBSERVED IN LATE 1970'S BY STEBBINS.
Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	29	Map Index: 25899	EO Index: 5325	Element Last Seen:	1992-07-09
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	1992-07-09
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-07-07

Quad Summary: Robbs Peak (3812084)

County Summary: El Dorado

Lat/Long:	38.98903 / -120.37829	Accuracy:	specific area
UTM:	Zone-10 N4318829 E727070	Elevation (ft):	5450
PLSS:	T13N, R14E, Sec. 11, NW (M)	Acres:	3.8

Location: WEST OF GERLE CREEK ABOUT 3 AIR MILES NNE OF SOUTH FORK CAMPGROUND, NORTH OF ROBBS PEAK.

Detailed Location: DISPERSED CAMPING AREA ADJACENT TO WENTWORTH SPRINGS ROAD AT THE GERLE CREEK CROSSING.

Ecological: GROWING ON A LOW RIDGE WITH DECOMPOSED GRANITE SOIL. ASSOCIATED WITH CALOCEDRUS, JUNIPERUS OCCIDENTALIS, PINUS JEFFREYI, QUERCUS KELLOGGII, Q. VACCINIFOLIA, GILIA LEPTALEA, CALYPTRIDUM UMBELLATUM, STREPTANTHUS TORTUOSUS, AND PTERYXIA.

General: 100-150 PLANTS OBSERVED OVER 1 ACRE IN 1992. USFS POPULATION #03-11, "AIRPORT FLAT".

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	30	Map Index: 25900	EO Index: 5324	Element Last Seen:	1993-10-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1993-10-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-07-07

Quad Summary: Robbs Peak (3812084)

County Summary: El Dorado

Lat/Long:	38.97174 / -120.39404	Accuracy:	specific area
UTM:	Zone-10 N4316871 E725760	Elevation (ft):	5250
PLSS:	T13N, R14E, Sec. 15, SW (M)	Acres:	12.5

Location: NORTHERN SHORE OF GERLE CREEK RESERVOIR, NORTH OF ROBBS PEAK.

Detailed Location: RESERVOIR IS AT THE CONFLUENCE OF GERLE CREEK AND ANGEL CREEK.

Ecological:

General: MAP DETAIL IS THE ONLY SOURCE OF INFORMATION FOR THIS SITE.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	31	Map Index: 25901	EO Index: 5323	Element Last Seen:	1936-07-08
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1936-07-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1995-11-21
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado				
Lat/Long:	38.91141 / -120.42274		Accuracy:	1 mile	
UTM:	Zone-10 N4310104 E723463		Elevation (ft):	6000	
PLSS:	T12N, R14E, Sec. 05 (M)		Acres:	0.0	
Location:	BETWEEN NORTH FORK OF SILVER CREEK AND ROBBS PEAK.				
Detailed Location:	NORTH FORK OF SILVER CREEK NOT FOUND ON PRESENT MAPS. SITE MAPPED BETWEEN LITTLE SILVER CREEK AND ROBBS PEAK IN THE VICINITY OF THE E 1/2 OF SECTION 5 AND THE W 1/2 OF SECTION 4.				
Ecological:					
General:	SEARCHES BY M. BAAD (1978) AND G.L. STEBBINS (LATE 1970'S) FAILED TO FIND THE SITE MENTIONED IN THE COLLECTION BY QUICK IN 1936. DUE TO THE VAGUE DIRECTIONS FROM THE COLLECTION, PLANTS ARE PRESUMED TO EXIST AT A SITE NOT YET REDISCOVERED.				
Owner/Manager:	UNKNOWN				

Carex davyi	Element Code: PMCYP033H0
Davy's sedge	
Listing Status:	Federal: None
	State: None
	Other: Rare Plant Rank - 1B.3
Habitat:	General: SUBALPINE CONIFEROUS FOREST, UPPER MONTANE CONIFEROUS FOREST.
	Micro: 1605-3230 M.
	CNDDDB Element Ranks: Global: G3
	State: S3

Occurrence No.	9	Map Index: 82341	EO Index: 83356	Element Last Seen:	1897-07-13
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1897-07-13
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2011-05-02
Quad Summary:	Kyburz (3812073)				
County Summary:	El Dorado				
Lat/Long:	38.77479 / -120.29524		Accuracy:	1 mile	
UTM:	Zone-10 N4295260 E734969		Elevation (ft):	6300	
PLSS:	T11N, R15E, Sec. 27 (M)		Acres:	0.0	
Location:	ABOVE SLIPPERY FORD (KYBURZ), SIERRA NEVADA MOUNTAINS.				
Detailed Location:	SLIPPERY FORD IS NOW KNOWN AS THE TOWN OF KYBURZ. EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB AS BEST GUESS CENTERED ON KYBURZ BUT MAY BE ON RIDGES NORTH OR SOUTH OF TOWN AT ELEVATION PROVIDED ON COLLECTION LABEL (6300 FT).				
Ecological:					
General:	ONLY SOURCE OF INFORMATION IS AN 1897 BRAINERD COLLECTION. NEEDS FIELDWORK.				
Owner/Manager:	UNKNOWN				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Carex limosa		Element Code: PMCYP037K0	
mud sedge			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G5
	State: None		State: S3
	Other: Rare Plant Rank - 2B.2		
Habitat:	General: BOGS AND FENS, LOWER MONTANE CONIFEROUS FOREST, MEADOWS AND SEEPS, MARSHES AND SWAMPS, UPPER MONTANE CONIFEROUS FOREST.		
	Micro: IN FLOATING BOGS AND SOGGY MEADOWS AND EDGES OF LAKES. 1370-2790 M.		

Occurrence No.	4	Map Index:	35210	EO Index:	28980	Element Last Seen:	1992-07-22
Occ. Rank:	Excellent	Presence:	Presumed Extant	Site Last Seen:		1992-07-22	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		1996-05-23	

Quad Summary:	Loon Lake (3812083)
County Summary:	El Dorado

Lat/Long:	38.90351 / -120.26348	Accuracy:	80 meters
UTM:	Zone-10 N4309629 E737300	Elevation (ft):	7480
PLSS:	T12N, R16E, Sec. 07, NW (M)	Acres:	0.0

Location:	ABOUT 1 MILE EAST OF TWO PEAKS (NE-MOST SUMMIT) & 0.9 MILE NNW OF PEARL LAKE, SOUTH OF LOON LAKE.
Detailed Location:	MAPPED NEAR THE CENTER OF THE W1/2 OF SECTION 7.
Ecological:	FLOATING BOG WITHIN A RED FIR FOREST. CAREX GROWING ON FLOATING SPHAGNUM. SURROUNDING SHRUBS INCLUDE LEDUM GLANDULOSUM, KALMIA POLYFOLIA, PHYLLODOCE BREWERI, VACCINIUM NIVICTUM, V. OCCIDENTALIS, SPIRAEA DENSIFLORA, AND SALIX SPP.
General:	THOUSANDS OF PLANTS OBSERVED IN 1992. DOMINANT PLANT ON THE FLOATING BOG. SITE IS PRIVATELY OWNED. USFS MAY ACQUIRE HALF OF BOG THROUGH LAND EXCHANGE.
Owner/Manager:	PVT

Occurrence No.	25	Map Index:	70551	EO Index:	71458	Element Last Seen:	2006-06-19
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2006-06-19	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2007-11-28	

Quad Summary:	Kyburz (3812073)
County Summary:	El Dorado

Lat/Long:	38.83899 / -120.31130	Accuracy:	nonspecific area
UTM:	Zone-10 N4302345 E733364	Elevation (ft):	6102
PLSS:	T12N, R15E, Sec. 33, S (M)	Acres:	70.0

Location:	5.5 MILES EAST OF ICE HOUSE ROAD ON THE ROAD TO WRIGHTS LAKE.
Detailed Location:	UNKNOWN IF SITE IS LOCATED 5.5 ROAD MILES OR AIR MILES EAST OF ICE HOUSE RD. MAPPED AS BEST GUESS BY CNDDDB FROM 4.5 TO 6.5 ROAD MILES ON WRIGHTS LAKE ROAD FROM ICE HOUSE RD.
Ecological:	GROWING AT THE EDGE OF A MEADOW IN A CONIFEROUS FOREST.
General:	ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 2006 HELMKAMP COLLECTION.
Owner/Manager:	USFS-ELDORADO NF

Carex cyrtostachya		Element Code: PMCYP03M00	
Sierra arching sedge			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G2
	State: None		State: S2
	Other: Rare Plant Rank - 1B.2		
Habitat:	General: LOWER MONTANE CONIFEROUS FOREST, RIPARIAN FOREST, MARSHES AND SWAMPS, MEADOWS AND SEEPS.		



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Micro: MESIC SITES. 605-1390 M.

Occurrence No.	1	Map Index: 99007	EO Index: 100511	Element Last Seen:	2006-08-23
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2006-08-23
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-01-29

Quad Summary: Pollock Pines (3812075)
County Summary: El Dorado

Lat/Long:	38.86472 / -120.57916	Accuracy:	80 meters
UTM:	Zone-10 N4304550 E710037	Elevation (ft):	4460
PLSS:	T12N, R12E, Sec. 25, NE (M)	Acres:	5.0

Location: KINGS MEADOW; NEAR HEAD OF SLAB CREEK, 1.1 AIR MILES EAST OF LITTLE SUGAR PINE MTN AND 1.6 AIR MILES SW OF LOOKOUT MTN.
Detailed Location: MAPPED BASED ON 2006 JANEWAY COORDINATES IN THE NE 1/4 NE 1/4 SECTION 25. PLANTS DESCRIBED AS "OCCASIONAL ESPECIALLY ALONG NORTH AND EAST EDGES OF MEADOW" BUT COORDINATES ARE CLOSER TO SOUTH END OF MEADOW.
Ecological: ALONG FOREST EDGE OF SOGGY MEADOW WITHIN MIXED CONIFER FOREST OF ABIES CONCOLOR, PSEUDOTSUGA, CALOEDRUS AND PINUS CONTORTA. ASSOCIATES INCLUDE BRACKEN, LUZULA COMOSA, AND CAREX LEMMONII.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 2006 JANEWAY COLLECTION; "OCCASIONAL" IN 2006.
Owner/Manager: UNKNOWN

Occurrence No.	2	Map Index: 99008	EO Index: 100512	Element Last Seen:	1968-07-11
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1968-07-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-01-29

Quad Summary: Pollock Pines (3812075)
County Summary: El Dorado

Lat/Long:	38.86577 / -120.58755	Accuracy:	nonspecific area
UTM:	Zone-10 N4304647 E709305	Elevation (ft):	4400
PLSS:	T12N, R12E, Sec. 25, N (M)	Acres:	27.0

Location: ALONG SLAB CREEK 0.25 MILE WEST OF KINGS MEADOW, EAST OF PINO GRANDE.
Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB ALONG SLAB CREEK AT ABOUT 4400 FT ELEVATION, BASED ON A 1968 STEBBINS COLLECTION.
Ecological: OPEN BOG IN MIXED CONIFEROUS FOREST ON METAMORPHIC ROCK FORMATION.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1968 STEBBINS COLLECTION. NEEDS FIELDWORK.
Owner/Manager: UNKNOWN



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	3	Map Index: 99009	EO Index: 100513	Element Last Seen:	2006-08-24
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2006-08-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-07-30
Quad Summary:	Tunnel Hill (3812086)				
County Summary:	El Dorado				
Lat/Long:	38.88444 / -120.65138		Accuracy:	80 meters	
UTM:	Zone-10 N4306575 E703714		Elevation (ft):	4235	
PLSS:	T12N, R12E, Sec. 17, SE (M)		Acres:	5.0	
Location:	GADDIS CREEK AT CROSSING OF MAINLINE RD 3.5 ROAD KM SOUTH OF WENTWORTH SPRINGS RD, BLODGETT FOREST RESEARCH STATION.				
Detailed Location:	MAPPED FROM 2006 JANEWAY COORDINATES, IN THE SE 1/4 OF THE SE 1/4 OF SECTION 17.				
Ecological:	EAST EDGE OF VERY WATER-LOGGED FLAT SEDGY MEADOW, SHADED BY ALNUS RHOMBIFOLIA & ADJACENT MIXED CONIFER FOREST (SUGAR PINE, DOUGLAS-FIR, INCENSE CEDAR). ASSOCIATES INCL CAREX LAEVICULMIS, RHODODENDRON OCCIDENTALE, BOYKINIA, LOTUS, & MOSSES.				
General:	SITE BASED ON A 2006 JANEWAY COLLECTION. 1973 RUBTZOFF & HOWELL COLLECTION FROM "UPPER GADDIS CREEK NEAR MAINLINE RD, BLODGETT FOREST" ATTRIBUTED HERE.				
Owner/Manager:	UC-BERKELEY				
Occurrence No.	4	Map Index: 99010	EO Index: 100514	Element Last Seen:	1973-07-19
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1973-07-19
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-07-30
Quad Summary:	Tunnel Hill (3812086)				
County Summary:	El Dorado				
Lat/Long:	38.91026 / -120.66054		Accuracy:	2/5 mile	
UTM:	Zone-10 N4309420 E702846		Elevation (ft):	4250	
PLSS:	T12N, R12E, Sec. 8, N (M)		Acres:	280.0	
Location:	SOUTH FORK BACON CANYON NEAR BACCHI CORRAL RD, BLODGETT FOREST RESEARCH STATION.				
Detailed Location:	CNDDDB UNABLE TO LOCATE BACCHI CORRAL ROAD. MAPPED AS BEST GUESS AROUND THE SW END OF BACON CANYON. GIVEN ELEVATION IS 4250 FEET.				
Ecological:	MOIST GROUND ALONG ROADSIDE DITCH AND IN WET OPEN GROUND IN A MARSHY AREA.				
General:	ONLY SOURCES OF INFORMATION FOR THIS SITE ARE TWO 1973 RUBTZOFF & HOWELL COLLECTIONS. NEEDS FIELDWORK.				
Owner/Manager:	UC-BERKELEY?				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	5	Map Index: 99011	EO Index: 100515	Element Last Seen:	2015-09-08
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2015-09-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-07-30

Quad Summary: Garden Valley (3812077), Georgetown (3812087)
County Summary: El Dorado

Lat/Long:	38.87553 / -120.81617	Accuracy:	specific area
UTM:	Zone-10 N4305230 E689442	Elevation (ft):	2240
PLSS:	T12N, R10E, Sec. 24, W (M)	Acres:	5.0

Location: ALONG ROCK CANYON CREEK ABOUT 200 M UPSTREAM OF CONFLUENCE WITH TRAVERSE CREEK, ELDORADO NF.
Detailed Location: MAPPED BY CNDDDB FROM 2007 JANEWAY COORDINATES, 2015 SLAKEY COORDINATES, AND USFS DIGITAL DATA, IN THE WEST HALF OF SECTION 24.
Ecological: NARROW CREEKSIDE STRIP OF RIPARIAN WOODLAND THROUGH OPEN SERPENTINE CHAPARRAL DOMINATED BY QUERCUS DURATA WITH SCATTERED GRAY PINE. ASSOCIATES INCLUDE FRAXINUS, ACER MACROPHYLLUM, ALNUS RHOMBIFOLIA, ASTER OREGONENSIS, ARTEMISIA, ETC.
General: ABOUT 30 CLUMPS IN 2007 AND 2012, WITH MORE SCATTERED DOWNSTREAM. 5 PLANTS IN 2015, BUT SURVEYS WERE LATE IN SEASON AND PLANTS WERE DIFFICULT TO SPOT. 1976 STEBBINS COLLECTION FROM "ROCK CREEK, EL DORADO CO" ATTRIBUTED HERE.
Owner/Manager: USFS-ELDORADO NF

Occurrence No.	14	Map Index: B0170	EO Index: 112029	Element Last Seen:	2017-08-11
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2017-08-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-07-30

Quad Summary: Robbs Peak (3812084)
County Summary: El Dorado

Lat/Long:	38.92215 / -120.4553	Accuracy:	specific area
UTM:	Zone-10 N4311216 E720607	Elevation (ft):	5585
PLSS:	T12N, R14E, Sec. 6, NW (M)	Acres:	2.0

Location: SE OF WENTWORTH SPRINGS ROAD, ~1.8 AIR MILES NNE OF SILVER HILL, NW OF UNION VALLEY RESERVOIR.
Detailed Location: MAPPED ACCORDING TO 2017 HENWOOD MAP, IN THE NW 1/4 OF THE NW 1/4 OF SECTION 6.
Ecological: GROWING ALONG A CREEK WITHIN A MIXED CONIFER FOREST. GROWING WITH RHODODENDRON OCCIDENTALIS, BOYKINIA MAJOR, CALOEDRUS DECURRENS, HOSACKIA OBLONGIFOLIA, JUNCUS, COMMON CAREX, AND ABIES CONCOLOR. 50-70% CANOPY. 0-5% SLOPE. SW ASPECT.
General: 5 PLANTS OBSERVED IN 2017. NO ADDITIONAL INDIVIDUALS OBSERVED DOWNSTREAM.
Owner/Manager: PVT-SIERRA PACIFIC



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	15	Map Index: B0171	EO Index: 112030	Element Last Seen:	2017-08-11
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2017-08-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-07-30

Quad Summary: Robbs Peak (3812084)
County Summary: El Dorado

Lat/Long:	38.91812 / -120.46791	Accuracy:	specific area
UTM:	Zone-10 N4310739 E719526	Elevation (ft):	5415
PLSS:	T12N, R13E, Sec. 1, N (M)	Acres:	1.0

Location: ALONG A TRIBUTARY TO PILOT CREEK, ~0.29 AIR MILE N OF PLUM CREEK ROAD, ABOUT 3.5 AIR MILES WSW OF ROBBS PEAK.
Detailed Location: MAPPED ACCORDING TO 2017 HENWOOD COORDINATES, IN THE NORTH 1/2 OF SECTION 1.
Ecological: GROWING WITHIN A MIXED CONIFER FOREST ALONG A DRAINAGE DITCH ADJACENT TO THE ROAD AND ABOUT 20 FT DOWNSLOPE OF THE CULVERT THAT WAS INSTALLED IN 2012. MAJORITY OF OCCURRENCE IS GROWING IN THE DRAINAGE DITCH ON THE UPHILL SIDE OF THE ROAD.
General: 100 PLANTS OBSERVED IN 2017.
Owner/Manager: PVT-SIERRA PACIFIC

Occurrence No.	16	Map Index: B0172	EO Index: 112031	Element Last Seen:	2016-09-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2016-09-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-07-30

Quad Summary: Devil Peak (3812085)
County Summary: El Dorado

Lat/Long:	38.88915 / -120.62377	Accuracy:	specific area
UTM:	Zone-10 N4307160 E706095	Elevation (ft):	4320
PLSS:	T12N, R12E, Sec. 15, NW (M)	Acres:	1.0

Location: 0.13 AIR MILE EAST OF MOSQUITO ROAD, 0.23 AIR MILE SOUTH OF BUTCHER CORRAL.
Detailed Location: MAPPED ACCORDING TO 2016 HENWOOD COORDINATES, IN THE SE 1/4 OF THE NW 1/4 OF SECTION 15.
Ecological: WET SEEPY FLAT AREA UNDER 30% CANOPY COVER. ASSOCIATED SPECIES INCLUDE FRAGARIA VESCA, LYSIMACHIA LATIFOLIA, CALOCEDRUS DECURRENS, VIOLA GLABELLA, MIMULUS PRIMULOIDES, AND SENECIO TRIANGULARIS.
General: 19 PLANTS OBSERVED IN MAY 2016. POPULATION WAS REVISITED IN SEPTEMBER 2016 FOR POSITIVE ID, PLANT WAS OBSERVED WITH A NODDING INFLORESCENCE IN FRUIT.
Owner/Manager: PVT-SIERRA PACIFIC



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	17	Map Index: B0173	EO Index: 112032	Element Last Seen:	2016-05-27
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2016-05-27
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-07-30
Quad Summary:	Devil Peak (3812085)				
County Summary:	El Dorado				
Lat/Long:	38.90054 / -120.61899		Accuracy:	specific area	
UTM:	Zone-10 N4308435 E706477		Elevation (ft):	4260	
PLSS:	T12N, R12E, Sec. 10, SE (M)		Acres:	1.0	
Location:	BALLARD CANYON; 0.8 AIR MILE WEST OF STUMPY MEADOWS LAKE.				
Detailed Location:	MAPPED ACCORDING TO 2016 POORE COORDINATES, IN THE NW 1/4 OF THE SE 1/4 OF SECTION 10.				
Ecological:	FOUND IN A DRY FLAT AREA ADJACENT TO A TRIBUTARY OF PILOT CREEK. ASSOCIATED SPECIES INCLUDE VIOLA GLABELLA, LYSIMACHIA LATIFOLIA, AND GAULTHERIA OVATIFOLIA.				
General:	8 PLANTS OBSERVED IN 2016.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	18	Map Index: B0174	EO Index: 112033	Element Last Seen:	2017-07-06
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2017-07-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-07-30
Quad Summary:	Tunnel Hill (3812086)				
County Summary:	El Dorado				
Lat/Long:	38.90539 / -120.63596		Accuracy:	specific area	
UTM:	Zone-10 N4308935 E704991		Elevation (ft):	4240	
PLSS:	T12N, R12E, Sec. 9, NE (M)		Acres:	1.0	
Location:	JUST NORTH OF WENTWORTH SPRINGS ROAD, ~1.69 AIR MILES WEST OF STUMPY MEADOWS RESERVOIR.				
Detailed Location:	MAPPED ACCORDING TO 2017 HENWOOD COORDINATES, IN THE SW 1/4 OF THE NE 1/4 OF SECTION 9.				
Ecological:	PLANTS ARE GROWING IN A MOIST TRANSITION ZONE OF A DUFFY MOSSY CREEK WITHIN A MIXED CONIFER FOREST WITH LINNAEA BOREALIS, LISTERA CONVALLARIOIDES, AND CAREX SP. 100% CANOPY, FLAT.				
General:	3 PLANTS OBSERVED IN 2017. SURROUNDING AREA WAS SURVEYED, BUT NO ADDITIONAL PLANTS WERE OBSERVED.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	19	Map Index: B0175	EO Index: 112034	Element Last Seen:	2016-06-15
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2016-06-15
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-07-30
Quad Summary:	Tunnel Hill (3812086)				
County Summary:	El Dorado				
Lat/Long:	38.91385 / -120.64723		Accuracy:	specific area	
UTM:	Zone-10 N4309848 E703990		Elevation (ft):	4040	
PLSS:	T12N, R12E, Sec. 4, SW (M)		Acres:	1.0	
Location:	MUTTON CANYON, 0.56 AIR MILE NORTH OF WENTWORTH SPRINGS ROAD, EAST OF BLODGETT EXPERIMENTAL FOREST AREA.				
Detailed Location:	MAPPED ACCORDING TO 2016 TIESEN COORDINATES, IN THE WEST 1/2 OF THE SW 1/4 OF SECTION 4.				
Ecological:	OBSERVED AT AN OLD CROSSING LOCATION.				
General:	3 PLANTS OBSERVED IN 2016.				
Owner/Manager:	PVT-SIERRA PACIFIC				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	20	Map Index: B0176	EO Index: 112035	Element Last Seen:	2016-06-26
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2016-06-26
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-07-30

Quad Summary: Tunnel Hill (3812086)

County Summary: El Dorado

Lat/Long:	38.92752 / -120.65453	Accuracy:	specific area
UTM:	Zone-10 N4311349 E703318	Elevation (ft):	3830
PLSS:	T13N, R12E, Sec. 32, SE (M)	Acres:	1.0

Location: ALONG AN UNNAMED 4WD ROAD 1.37 AIR MILES SOUTH OF THE RUBICON RIVER AND 1.48 AIR MILES NORTH OF WENTWORTH SPRINGS ROAD.

Detailed Location: MAPPED ACCORDING TO 2016 TIESEN COORDINATES, IN THE SE 1/4 OF THE SE 1/4 OF SECTION 32.

Ecological: PLANTS WERE OBSERVED GROWING ALONG THE FLAT ROAD EDGE IN A WET SEEPY AREA UNDER 20% CANOPY COVER. ASSOCIATED WITH GEUM MACROPHYLLUM, RUMEX ACETOSELLA, CALOCEDRUS DECURRENS, LILIUM PARDALINUM, BOYKINIA OCCIDENTALIS, DICENTRA, ETC.

General: 26+ PLANTS OBSERVED IN 2016.

Owner/Manager: PVT-SIERRA PACIFIC

Occurrence No.	21	Map Index: B0177	EO Index: 112036	Element Last Seen:	2016-05-26
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2016-05-26
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-07-30

Quad Summary: Tunnel Hill (3812086)

County Summary: El Dorado

Lat/Long:	38.93785 / -120.6876	Accuracy:	specific area
UTM:	Zone-10 N4312422 E700421	Elevation (ft):	3450
PLSS:	T13N, R12E, Sec. 31, NW (M)	Acres:	4.0

Location: TRIBUTARY OF PILOT CREEK, 1 AIR MILE EAST OF TUNNEL HILL ROAD, NW END OF DITCH CAMP POINT, WEST OF PEAVINE POINT.

Detailed Location: MAPPED AS 2 POLYGONS ACCORDING TO 2016 POORE COORDINATES, IN THE NW 1/4 OF THE NW 1/4 OF SECTION 31.

Ecological: PLANTS FOUND IN FLAT AREAS WITHIN RIPARIAN HABITAT ALONG A SHADED TRIBUTARY OF PILOT CREEK. CANOPY COVER UP TO 80%. ASSOCIATED WITH ADENOCAULON BICOLOR, LYSIMACHIA LATIFOLIA, VIOLA GLABELLA, ROSA CALIFORNICUM, CORNUS NUTTALLII, ETC.

General: 39 PLANTS OBSERVED IN 2016.

Owner/Manager: PVT-SIERRA PACIFIC



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	22	Map Index: B0178	EO Index: 112037	Element Last Seen:	2016-06-26
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2016-06-26
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-07-30
Quad Summary:	Tunnel Hill (3812086)				
County Summary:	El Dorado				
Lat/Long:	38.94581 / -120.69494		Accuracy:	specific area	
UTM:	Zone-10 N4313290 E699763		Elevation (ft):	3685	
PLSS:	T13N, R11E, Sec. 25, SE (M)		Acres:	1.0	
Location:	0.46 AIR MILE EAST OF TUNNEL HILL ROAD AND 0.61 AIR MILE WEST OF PILOT CREEK, TUNNEL HILL.				
Detailed Location:	MAPPED ACCORDING TO 2016 HENWOOD COORDINATES, IN THE NW 1/4 OF THE SE 1/4 OF SECTION 25.				
Ecological:	PLANTS OBSERVED ON THE ROAD EDGE AND ADJACENT TO A TRIBUTARY OF PILOT CREEK. UNDER 75% CANOPY COVER, ON FLAT GROUND AWAY FROM THE WATERS EDGE. ASSOCIATED WITH ACER MACROPHYLLUM, RUBUS URSINUS, CAREX MULTICAULIS, AND CORYLUS CORNUTA.				
General:	51 PLANTS OBSERVED IN 2016.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	28	Map Index: B0248	EO Index: 112106	Element Last Seen:	2016-06-30
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-06-30
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-08-02
Quad Summary:	Devil Peak (3812085)				
County Summary:	El Dorado				
Lat/Long:	38.90089 / -120.52292		Accuracy:	80 meters	
UTM:	Zone-10 N4308695 E714808		Elevation (ft):	4570	
PLSS:	T12N, R13E, Sec. 9, SE (M)		Acres:	5.0	
Location:	5 MILES EAST OF THE DAM AT STUMPY MEADOWS RESERVOIR, SPRING TRIBUTARY TO PILOT CREEK.				
Detailed Location:	MAPPED BY CNDDDB ACCORDING TO COORDINATES PROVIDED ON CALPHOTOS, IN THE NW 1/4 OF THE SE 1/4 OF SECTION 9.				
Ecological:					
General:	SITE IS BASED ON 2016 TAYLOR PHOTOS.				
Owner/Manager:	UNKNOWN				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



<i>Rhynchospora capitellata</i>		Element Code: PMCYP0N080	
brownish beaked-rush			
Listing Status:	Federal: None	CNDDB Element Ranks:	Global: G5
	State: None		State: S1
	Other: Rare Plant Rank - 2B.2		
Habitat:	General: LOWER MONTANE CONIFEROUS FOREST, MEADOWS AND SEEPS, MARSHES AND SWAMPS, UPPER MONTANE CONIFEROUS FOREST.		
	Micro: MESIC SITES. 45-1710 M.		

Occurrence No.	16	Map Index: 70593	EO Index: 71503	Element Last Seen:	2006-07-23
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2006-07-23
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2007-12-11
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.86472 / -120.57916		Accuracy:	80 meters	
UTM:	Zone-10 N4304549 E710036		Elevation (ft):	4458	
PLSS:	T12N, R12E, Sec. 25, NE (M)		Acres:	0.0	
Location:	KINGS MEADOW, NEAR HEADWATERS OF SLAB CREEK.				
Detailed Location:	IN THE NE 1/4 OF THE NE 1/4 OF SECTION 25.				
Ecological:	OPEN, FLAG, SOGGY MEADOW SURROUNDED BY MIXED CONIFER FOREST OF LODGEPOLE PINE, WHITE FIR, DOUGLAS-FIR, INCENSE CEDAR.				
General:	ABUNDANT IN 2006.				
Owner/Manager:	USFS-ELDORADO NF				

Occurrence No.	21	Map Index: B2029	EO Index: 113953	Element Last Seen:	1974-09-19
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1974-09-19
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2019-01-18
Quad Summary:	Devil Peak (3812085), Tunnel Hill (3812086)				
County Summary:	El Dorado				
Lat/Long:	38.922 / -120.62649		Accuracy:	2/5 mile	
UTM:	Zone-10 N4310799 E705764		Elevation (ft):	4250	
PLSS:	T12N, R12E, Sec. 3, NW (M)		Acres:	280.0	
Location:	BACCHI MEADOW, UC BLODGETT FOREST RESEARCH STATION, SIERRA NEVADA MOUNTAINS.				
Detailed Location:	EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB AROUND THE MEADOW AT BACCHI RANCH, WHICH MATCHES GIVEN ELEVATION OF 4250 FT. THIS IS JUST NORTHEAST OF THE BLODGETT EXPERIMENTAL FOREST BOUNDARY ON TOPO MAP.				
Ecological:	OPEN MARSHY GROUND.				
General:	ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1974 RUBTZOFF COLLECTION. NEEDS FIELDWORK.				
Owner/Manager:	UNKNOWN				

<i>Calochortus clavatus var. avius</i>		Element Code: PMLI0D095	
Pleasant Valley mariposa-lily			
Listing Status:	Federal: None	CNDDB Element Ranks:	Global: G4T2
	State: None		State: S2
	Other: Rare Plant Rank - 1B.2, BLM_S-Sensitive, USFS_S-Sensitive		
Habitat:	General: LOWER MONTANE CONIFEROUS FOREST.		
	Micro: JOSEPHINE SILT LOAM AND VOLCANICALLY DERIVED SOIL; OFTEN IN ROCKY AREAS. 300-1710 M.		



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	2	Map Index: 13159	EO Index: 22184	Element Last Seen:	2003-05-26
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2003-05-26
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-27
Quad Summary:	Sly Park (3812065)				
County Summary:	El Dorado				
Lat/Long:	38.70866 / -120.62090		Accuracy:	specific area	
UTM:	Zone-10 N4287134 E706865		Elevation (ft):	2920	
PLSS:	T10N, R12E, Sec. 23, NE (M)		Acres:	10.6	
Location:	NORTH OF CLEAR CREEK RD, APPROXIMATELY 3.5 AIR MILES SE OF CAMINO.				
Detailed Location:	USFS POPULATION #03-2. SW1/4 OF NE1/4 SEC 23.				
Ecological:	IN A MATURE PONDEROSA PINE FOREST WITH BLACK OAK, INCENSE CEDAR, AND SUGAR PINE. UNDERSTORY INCLUDES CHAMAEBATIA, TOXICODENDRON, ET AL. MARIPOSA-JOSEPHINE VERY ROCKY SILT LOAM WITH SLATE OUTCROPS. OFTEN SEEN IN OUTCROPS.				
General:	18 PLANTS SEEN IN 1979, NOT FOUND IN 1982, 5 SEEN IN 1983, NONE SEEN IN 1985, 2 PLANTS SEEN IN 1986, 1 SEEN IN 1989, 44 SEEN IN 1995, 20 VEGETATIVE PLANTS SEEN IN 2003.				
Owner/Manager:	PVT				
Occurrence No.	3	Map Index: 13144	EO Index: 5998	Element Last Seen:	1989-07-07
Occ. Rank:	Poor		Presence: Presumed Extant	Site Last Seen:	1989-07-07
Occ. Type:	Natural/Native occurrence		Trend: Decreasing	Record Last Updated:	2014-11-19
Quad Summary:	Camino (3812066)				
County Summary:	El Dorado				
Lat/Long:	38.73548 / -120.63101		Accuracy:	specific area	
UTM:	Zone-10 N4290088 E705909		Elevation (ft):	2840	
PLSS:	T10N, R12E, Sec. 10, NE (M)		Acres:	8.9	
Location:	JUST ABOVE THE N FORK WEBBER CREEK, APPROXIMATELY 3 AIR MI E OF CAMINO.				
Detailed Location:	SOUTH OF HIGHWAY 50 ALONG EIGHT MILE ROAD, EAST OF TWO SMALL PONDS IN SE 1/4 OF NE 1/4 OF SECTION 10. USFS POPULATION #03-1. SEVERAL COLLECTIONS FROM ROBBINS IN THE 1940S FROM "~3 MI E OF CAMINO" ALSO ATTRIBUTED TO THIS SITE.				
Ecological:	LOWER MONTANE CONIFEROUS FOREST ON MARIPOSA GRAVELLY SILT LOAM. WITH PINUS PONDEROSA, QUERCUS KELLOGGII, CALOEDRUS, PSEUDOTSUGA, ARCTOSTAPHYLOS, CEANOTHUS INTEGERRIMUS, AVENA, BRODIAEA, CHAMAEBATIA, CHLOROGALUM, CYNOSURUS, GALIUM, ET AL.				
General:	1 PLANT IN 1943; 2-3 DOZEN IN 1944; UNK # IN 1945; 20+ DRY STALKS W/ PODS IN 1982; 40-50 IN 1983. FOLLOWING HOUSE CONSTRUCTION, NONE SEEN W/ BINOCULARS IN 1986. 2 IN 1989; IT APPEARS THAT THE REST OF THE POP ELIMINATED BY HOUSE/DRIVEWAY.				
Owner/Manager:	PVT				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	4	Map Index:	13210	EO Index:	22172	Element Last Seen:	2001-04-24
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2001-04-24	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-06-27	
Quad Summary:	Sly Park (3812065)						
County Summary:	El Dorado						
Lat/Long:	38.70508 / -120.59182			Accuracy:	specific area		
UTM:	Zone-10 N4286802 E709405			Elevation (ft):	3200		
PLSS:	T10N, R13E, Sec. 19, NW (M)			Acres:	10.0		
Location:	200 FEET ABOVE SLY PARK CREEK, ABOUT 0.5 AIR MILE SSE OF SLY PARK GUARD STATION.						
Detailed Location:	MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE SW 1/4 OF THE NW 1/4 OF SECTION 19.						
Ecological:	ON SHALLOW SOILS OF MARIPOSA VERY ROCKY SILT LOAM OVERLYING SLATE. OAK/PINE WOODLAND OVERSTORY, UNDERSTORY OF ARCTOSTAPHYLOS, CHAMAEBATIA, TOXICODENDRON, DICHELOSTEMMA, ASCLEPIAS, QUERCUS SPP., MONARDELLA, IRIS, AND ANNUAL GRASSES.						
General:	FEWER THAN 107 PLANTS SEEN IN 1983. 222 PLANTS OBSERVED IN 2001.						
Owner/Manager:	USFS-ELDORADO NF						
Occurrence No.	5	Map Index:	13439	EO Index:	5755	Element Last Seen:	2011-07-30
Occ. Rank:	Excellent	Presence:	Presumed Extant	Site Last Seen:		2011-07-30	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-07-07	
Quad Summary:	Caldor (3812054)						
County Summary:	El Dorado						
Lat/Long:	38.54169 / -120.46834			Accuracy:	specific area		
UTM:	Zone-10 N4268958 E720644			Elevation (ft):	4600		
PLSS:	T08N, R14E, Sec. 18, S (M)			Acres:	144.0		
Location:	FROM JUST EAST OF OREGON GULCH SOUTHEAST TO NEAR THE INTERSECTION OF OMO RANCH RD & PIPI RD., BARNEY RIDGE.						
Detailed Location:	SEVERAL COLONIES SCATTERD ALONG OMO RANCH ROAD (8N64). USFS POPULATION #S 03-05, 03-06, 03-26, 03-29, 03-124. EO #94 MAY BE PART OF THIS OCCURRENCE; NEED SURVEY DATA FOR PORTIONS OF OMO RANCH RD SEPARATING EO #S 5 & 94.						
Ecological:	LOWER MONTANE CONIFEROUS FOREST. COBBLY ANDESITIC OPENING AMONG PONDEROSA PINES, BLACK OAKS, CEDARS, & BEAR CLOVER. OTHER ASSOCIATES INCLUDING ASCLEPIAS CORDIFOLIA, BROMUS TECTORUM, CEANOTHUS INTEGERRIMUS, CHAMAEBATIA FOLIOLOSA, ETC.						
General:	41 PLANTS SEEN IN 1984, >150 PLANTS IN 1986, ~500 IN 1989. PORTIONS OF THIS EO ALSO SEEN IN 1990 (2 PLANTS), 1992 (115 PLANTS), 1995, 1997, 2001 (630 PLANTS), 2002 (198 PLANTS), 2003 (12 PLANTS), 2006 (22 PLANTS), 2007 (4 PLANTS) & 2011.						
Owner/Manager:	USFS-ELDORADO NF, PVT						



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	6	Map Index:	13465	EO Index:	20897	Element Last Seen:	2012-07-09
Occ. Rank:	Fair	Presence:	Presumed Extant	Site Last Seen:		2012-07-09	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-07-06	
Quad Summary:	Caldor (3812054)						
County Summary:	El Dorado						
Lat/Long:	38.60877 / -120.45219			Accuracy:	specific area		
UTM:	Zone-10 N4276442 E721845			Elevation (ft):	4750		
PLSS:	T09N, R14E, Sec. 29, NW (M)			Acres:	7.0		
Location:	ON ROAD FROM GRIZZLY FLAT TO CALDOR, 0.2 MI PAST JUNCTION MARKED "PLUMMER RIDGE GUARD STATION".						
Detailed Location:	ALONG BOTH SIDES OF FOREST ROAD 9N73.3, ABOUT 300 METERS EAST OF JUNCTION WITH 9N16. MAPPED BY CNDDDB BASED ON A 1989 POLLAK MAP AND USFS DIGITAL DATA SUBMITTED IN 2014. USFS POPULATION #03-7.						
Ecological:	IN OPENING AMONG CALOCEDRUS DECURRENS, QUERCUS KELLOGGII, AND PINUS PONDEROSA. MODERATELY SLOPING, SOUTH-FACING AREA COVERED WITH CHAMAEBATIA. LAVA CAP WITH 10 INCHES OF SOIL ON TOP.						
General:	10 PLANTS SEEN IN 1985, 14 PLANTS IN 1986, 52 PLANTS IN 1989, 11 PLANTS IN 2012. AREA PREVIOUSLY BURNED.						
Owner/Manager:	USFS-ELDORADO NF						
Occurrence No.	7	Map Index:	13471	EO Index:	5793	Element Last Seen:	1989-06-28
Occ. Rank:	Fair	Presence:	Presumed Extant	Site Last Seen:		2013-05-09	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-06-27	
Quad Summary:	Caldor (3812054)						
County Summary:	El Dorado						
Lat/Long:	38.59423 / -120.44986			Accuracy:	specific area		
UTM:	Zone-10 N4274834 E722093			Elevation (ft):	4733		
PLSS:	T09N, R14E, Sec. 32, NE (M)			Acres:	13.2		
Location:	1.1 MILE SOUTH OF CALDOR ON NORTH-SOUTH ROAD.						
Detailed Location:	ALONG THE NORTH SIDE OF 10N83.2 ABOUT 600 M (BY ROAD) SE OF 9N56. MAPPED ACCORDING TO A 1989 POLLAK MAP. USFS POPULATION #03-8.						
Ecological:	ON SOUTH SLOPE IN OPEN AREA AMONG PINUS PONDEROSA, QUERCUS KELLOGGII, CALOCEDRUS, AND SPARSE CHAMAEBATIA. LAVA CAP WITH THIN OVERLYING SOIL LAYER.						
General:	BURNT STUMPS INDICATE PREVIOUS FIRE. 6 PLANTS IN 1985, 2-4 PLANTS IN 1986, BUT SOME PLANTS MAY HAVE BEEN DUG UP LATER IN THE YEAR. 9 PLANTS SEEN IN 1989. NO PLANTS OBSERVED IN 2012 & 2013.						
Owner/Manager:	USFS-ELDORADO NF						



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	8	Map Index: 13384	EO Index: 5792	Element Last Seen:	2015-10-27
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2015-10-27
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-05
Quad Summary:	Caldor (3812054)				
County Summary:	El Dorado				
Lat/Long:	38.59585 / -120.48758		Accuracy:	specific area	
UTM:	Zone-10 N4274923 E718803		Elevation (ft):	4200	
PLSS:	T09N, R13E, Sec. 36, N (M)		Acres:	31.0	
Location:	BOTH SIDES OF DOGTOWN CREEK NEAR CONFLUENCE WITH MIDDLE DRY CREEK, SW OF PLUMMER RIDGE.				
Detailed Location:	USFS POPULATION #S 03-9, 03-10, 03-68, 03-95. MAPPED BY CNDDDB AS 11 POLYGONS IN THE NORTH 1/2 OF SECTION 36 AND THE SE 1/4 OF THE SE 1/4 OF SECTION 25. ONGOING PROBLEM WITH ORV ACTIVITY DUE TO NEARBY RIVER ACCESS.				
Ecological:	SOUTH/SOUTHWEST-FACING SLOPES OF ROCKY OUTCROPS ALSO IN ROCK CREVICES. ASSOCIATED WITH PINUS PONDEROSA, QUERCUS, CALOEDRUS, ARCTOSTAPHYLOS VISCIDA, PRUNUS, ETC. SOIL IS GRANITIC WITH COARSE SANDY LOAM.				
General:	POPULATION NUMBERS FOR PORTIONS OF SITE: 78 PLANTS IN 1986, 209 IN 1989, TWO NEW COLONIES IN 1991 AND 1992 WITH 14 PLANTS AND 70 PLANTS RESPECTIVELY, 613 IN 2010, 130 IN 2012, 500 IN 2013, 51 IN 2015. INCLUDES FORMER OCCURRENCE #9.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	10	Map Index: 13418	EO Index: 21979	Element Last Seen:	2013-09-04
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2013-09-04
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-27
Quad Summary:	Old Iron Mountain (3812064)				
County Summary:	El Dorado				
Lat/Long:	38.6409 / -120.48067		Accuracy:	specific area	
UTM:	Zone-10 N4279939 E719268		Elevation (ft):	4700	
PLSS:	T09N, R13E, Sec. 13, NE (M)		Acres:	10.0	
Location:	BETWEEN LONG CANYON AND BIG CANYON ABOUT 0.5 MILE EAST OF CONFLUENCE.				
Detailed Location:	ALONG 9N47.1 ABOUT 0.5 MILE SOUTH OF 9N47.2. MAPPED AS 2 POLYGONS BY CNDDDB. USFS POPULATION #03-11 & #03-141.				
Ecological:	IN OPENING IN MATURE PINUS PONDEROSA, QUERCUS KELLOGGII, AND CALOEDRUS WITH YOUNG PSEUDOTSUGA. PLANTS ARE GROWING ON THE EDGES OF A COBBLY ANDESITIC OPENING WITH CHAMAEBATIA COVERING GROUND.				
General:	EAST POLYGON: 5 IN 1985, 13 IN 1986 (WIDELY SCATTERED), 37 IN 1989, NONE FOUND IN 2004 & 2005; SITE IS OUTSIDE OF CUT UNIT OF TIMBER SALE AND HAS BEEN FLAGGED FOR PROTECTION. WEST POLYGON: 15 IN 2013.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	11	Map Index: 13533	EO Index: 6809	Element Last Seen:	1989-06-23
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2004-07-26
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-27
Quad Summary:	Old Iron Mountain (3812064)				
County Summary:	El Dorado				
Lat/Long:	38.69681 / -120.42258		Accuracy:	80 meters	
UTM:	Zone-10 N4286285 E724149		Elevation (ft):	5120	
PLSS:	T10N, R14E, Sec. 28, NE (M)		Acres:	0.0	
Location:	NEAR ROAD NORTH OF LITTLE PEBBLE CANYON.				
Detailed Location:	BOTH SIDES OF 10N58, ABOUT 0.1 MI NW OF THE CANYON CROSSING. ON PEBBLE TIMBER SALE AT SOUTHEAST CORNER OF CUT UNIT 11. USFS POPULATION #03-12.				
Ecological:	ON SOUTH-FACING SLOPE IN VOLCANICALLY DERIVED SOILS. ROCKY AREA WITH PSEUDOTSUGA, CALOCEDRUS, QUERCUS KELLOGGII, AND CHAMAEBATIA.				
General:	2 PLANTS SEEN IN 1985, 17 PLANTS IN 1986, AND 19 PLANTS OBSERVED IN 1989. NO PLANTS FOUND IN 2004.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	13	Map Index: 13442	EO Index: 5794	Element Last Seen:	2012-07-17
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2012-07-17
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-01
Quad Summary:	Caldor (3812054)				
County Summary:	El Dorado				
Lat/Long:	38.60093 / -120.46023		Accuracy:	specific area	
UTM:	Zone-10 N4275553 E721170		Elevation (ft):	4300	
PLSS:	T09N, R14E, Sec. 30, E (M)		Acres:	26.0	
Location:	NORTH OF DOGTOWN CREEK, SOUTH OF PLUMMER RIDGE, APPROXIMATELY 2 AIR MILES WSW OF CALDOR.				
Detailed Location:	MAPPED AS 3 POLYGONS BASED ON USFS DIGITAL DATA, IN THE EAST HALF OF SECTION 30 AND THE SW 1/4 SECTION 29. N POLYGON: USFS POPULATION #03-91. S POLYGONS: USFS POPULATION #03-14.				
Ecological:	N POLY: GROWING IN PATCHY, GRASSY OPENINGS W/ PONDEROSA PINE, INCENSE CEDAR, MANZANITA, BEAR CLOVER, ETC. S POLY: JUST ABOVE RIPARIAN ZONE WITH GRANITE BOULDERS OVERLAIN BY REDDISH SOIL (COHASSET?); ASSOCIATES INCLUDE CLARKIA AND LESSINGIA.				
General:	N POLYGON: 12 PLANTS SEEN IN 1992 (SITE FLAGGED), NO PLANTS SEEN IN 2012. SW POLYGON: 4 PLANTS SEEN IN 1986, NOT FLAGGED IN 1986. SE POLYGON: 7 PLANTS SEEN IN 1986, 8 PLANTS IN 2012. INCLUDES FORMER EO #32.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	15	Map Index: 25457	EO Index: 5812	Element Last Seen:	2015-05-20
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-05-20
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-28
Quad Summary:	Peddler Hill (3812053), Caldor (3812054)				
County Summary:	El Dorado				
Lat/Long:	38.61349 / -120.37556		Accuracy:	specific area	
UTM:	Zone-10 N4277154 E728504		Elevation (ft):	5400	
PLSS:	T09N, R14E, Sec. 24, S (M)		Acres:	23.0	
Location:	0.7 AIR MILE NORTH OF BIG MOUNTAIN RIDGE ON NORTH SIDE OF MCKINNEY CREEK, 4.7 AIR MILE NORTH OF HAMS STATION.				
Detailed Location:	ALONG USFS ROAD 9N34B ABOUT 1 MILE SOUTHWEST OF JUNCTION WITH 9N91. USFS POPULATION #03-72.				
Ecological:	VARIED HABITAT WITH MANY OPEN AREAS. PLANTS CLUSTERED IN OPEN AREAS WITH BEAR CLOVER WITHIN MIXED CONIFER FOREST. SOUTHERN ASPECT. MCCARTHY GRAVELLY SANDY LOAM SOIL.				
General:	70 PLANTS OBSERVED IN LATE SUMMER OF 1991, MORE PLANTS WOULD PROBABLY BE SEEN EARLIER IN THE YEAR. AREA HAS BEEN FLAGGED. 28 PLANTS OBSERVED IN 2002. 66 PLANTS OBSERVED AT WEST END OF SITE IN 2015.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	24	Map Index: 25481	EO Index: 5796	Element Last Seen:	2001-07-12
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2001-07-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-27
Quad Summary:	Caldor (3812054)				
County Summary:	El Dorado				
Lat/Long:	38.62086 / -120.39310		Accuracy:	80 meters	
UTM:	Zone-10 N4277928 E726953		Elevation (ft):	5280	
PLSS:	T09N, R14E, Sec. 23, NE (M)		Acres:	0.0	
Location:	NEAR END OF 9N37 ALONG HEADWATERS OF DOGTOWN CREEK, 1.8 AIR MILES ENE OF CALDOR RANGER STATION.				
Detailed Location:	USFS POPULATION #03-84. MAPPED ACCORDING TO A 1992 HANGAARD MAP, IN THE WEST 1/2 OF THE NE 1/4 OF SECTION 23.				
Ecological:	OPENINGS WITHIN PINUS PONDEROSA AND CALOCEDRUS THICKETS. FOUND IN COBBLY ROCK OPENINGS IN CHAMAEBATIA GROUNDCOVER. OTHER ASSOCIATES INCLUDE ARCTOSTAPHYLOS PATULA, CEANOTHUS INTEGERRIMUS, BRODIAEA, AND FRITILLARIA.				
General:	5 PLANTS SEEN IN BUD IN 1992. HERBICIDE APPLICATION WAS PLANNED IN 1992; SITE WAS TO BE MONITORED AFTER SPRAYING. 14 PLANTS OBSERVED IN 2001.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	25	Map Index: 25975	EO Index: 5251	Element Last Seen:	1990-06-11
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2002-05-13
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-27

Quad Summary: Caldor (3812054)
County Summary: El Dorado

Lat/Long:	38.61602 / -120.39087	Accuracy:	80 meters
UTM:	Zone-10 N4277397 E727162	Elevation (ft):	5280
PLSS:	T09N, R14E, Sec. 23, SE (M)	Acres:	0.0

Location: WEST SIDE OF RIDGE SEPARATING DOGTOWN CREEK AND MCKINNEY CREEK, 2 AIR MILES ENE OF CALDOR RANGER STATION.
Detailed Location: UNSURE IF THIS IS A CONTINUOUS POPULATION WITH EO #95 TO THE EAST OR IF THIS IS A DISTINCT OCCURRENCE; 1990 GIBSON & NIELSEN MAP IS UNCLEAR.
Ecological: OPENING IN WESTSIDE PONDEROSA PINE FOREST. DOMINANTS INCLUDE PSEUDOTSUGA, CHAMAEBATIA, CALOCEDRUS, CLARKIA, AND ERIOPHYLLUM. ASSOCIATED WITH BRODIAEA, CALOCHORTUS LEICHTLINII, AND VIOLA. MCCARTHY GRAVELLY SANDY LOAMS.
General: 129 PLANTS SEEN IN 1990 BETWEEN THIS AND EO #95. SITE HAS BEEN FLAGGED TO REDUCE LOGGING IMPACTS. NO PLANTS FOUND IN 2002.
Owner/Manager: USFS-ELDORADO NF

Occurrence No.	26	Map Index: 25480	EO Index: 5795	Element Last Seen:	1992-07-09
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2002-06-03
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-27

Quad Summary: Caldor (3812054)
County Summary: El Dorado

Lat/Long:	38.61484 / -120.41783	Accuracy:	80 meters
UTM:	Zone-10 N4277199 E724818	Elevation (ft):	5000
PLSS:	T09N, R14E, Sec. 22, SW (M)	Acres:	0.0

Location: ALONG 9N31Y, 0.5 MILE NORTHEAST OF CALDOR RANGER STATION, NORTH OF DOGTOWN CREEK.
Detailed Location: 1.2 MILES DOWN 9N31Y, SITE IS ABOUT 200 YDS WNW OF THE ROAD JUST ABOVE LARGE COBBLY ROCK OPENING. USFS POPULATION #03-90.
Ecological: GROWING MID-SLOPE ON ROCKY SOUTHWEST FACING SPUR WITHN OPENINGS IN PINUS PONDEROSA, CALOCEDRUS, AND QUERCUS KELLOGGII. SPARSE CHAMAEBATIA, STIPA, CLARKIA, MONARDELLA, AND GALIUM. MCCARTHY GRAVELLY SANDY LOAM.
General: 14 PLANTS SEEN IN 1992; SITE HAS BEEN FLAGGED. NO PLANTS OBSERVED IN 2002.
Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	27	Map Index: 25485	EO Index: 5786	Element Last Seen:	2010-07-30
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-07-30
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-27
Quad Summary:	Caldor (3812054)				
County Summary:	El Dorado				
Lat/Long:	38.58396 / -120.40004		Accuracy:	specific area	
UTM:	Zone-10 N4273815 E726465		Elevation (ft):	5040	
PLSS:	T09N, R14E, Sec. 35, SW (M)		Acres:	12.5	
Location:	NORTH SIDE OF MIDDLE DRY CREEK 2 AIR MILES SOUTHEAST OF CALDOR RANGER STATION, BIG MOUNTAIN RIDGE.				
Detailed Location:	FOUND ALONG 9N50, NORTH OF THE "F" SPUR. USFS POPULATION #03-83.				
Ecological:	GROWING MIDSLOPE WITHIN OPENINGS IN PINUS PONDEROSA, CALOEDRUS, AND QUERCUS KELLOGGII. ASSOCIATED WITH CHAMAEBATIA, STIPA, CLARKIA, MONARDELLA, COLLINSIA, AND CHLOROGALUM. MCCARTHY LEDMOUNT SOILS.				
General:	34 PLANTS SEEN IN 1992. SELECTIVE LOGGING OCCURRED IN THE AREA PRIOR TO ~1982, ONLY 2 SKID TRAILS NOW APPARENT; SITE IS NOW FLAGGED. 20 PLANTS OBSERVED IN 2010.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	28	Map Index: 25484	EO Index: 5787	Element Last Seen:	2015-10-27
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2015-10-27
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-07
Quad Summary:	Caldor (3812054)				
County Summary:	El Dorado				
Lat/Long:	38.58187 / -120.412		Accuracy:	specific area	
UTM:	Zone-10 N4273554 E725429		Elevation (ft):	4900	
PLSS:	T09N, R14E, Sec. 34, S (M)		Acres:	62.0	
Location:	NORTH SIDE OF MIDDLE DRY CREEK ABOUT 2 AIR MILES SOUTHEAST OF TOWN OF CALDOR, BIG MOUNTAIN RIDGE.				
Detailed Location:	ALONG EITHER SIDE OF 9N50 WEST OF JUNCTION WITH 9N50B. MAPPED AS 2 POLYGONS BY CNDDDB. USFS POPULATION #31 & #41.				
Ecological:	WESTSIDE PONDEROSA PINE FOREST UPSLOPE GRADING INTO SIERRAN MIXED CONIFER FOREST DOWNSLOPE. ASSOCIATED WITH PINUS PONDEROSA, P. LAMBERTIANA, CALOEDRUS, QUERCUS KELLOGGII, Q. CHRYSOLEPIS, ABIES CONCOLOR, PSEUDOTSUGA, CORNUS NUTTALLII.				
General:	SE POLYGON: 7 PLANTS SEEN IN 1989, 6 IN 2009. NW POLYGON: 138 (MAY) AND 261 (JUNE) PLANTS SEEN IN 1990, 45+ PLANTS IN 2010, 30 PLANTS IN 2012, 313 PLANTS IN 2015.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	29	Map Index: 25483	EO Index: 5788	Element Last Seen:	2015-10-27
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2015-10-27
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-07
Quad Summary:	Caldor (3812054)				
County Summary:	El Dorado				
Lat/Long:	38.5816 / -120.44342		Accuracy:	specific area	
UTM:	Zone-10 N4273448 E722693		Elevation (ft):	4700	
PLSS:	T09N, R14E, Sec. 32, SE (M)		Acres:	21.0	
Location:	ALONG RIDGETOP SOUTH OF ELKINS FLAT AND WEST OF CROFT, ABOUT 1.7 AIR MILES SOUTH OF CALDOR (TOWN), BIG MOUNTAIN RIDGE.				
Detailed Location:	ALONG FOREST ROAD 8N49. MAPPED AS 5 POLYGONS BY CNDDDB BASED ON 1990 ROBERTS MAPS AND USFS DIGITAL DATA. USFS POPULATION #38 AND #39.				
Ecological:	ALONG A SOUTH-FACING RIDGE WITHIN MIXED CONIFER FOREST/OAK WOODLAND. OPEN AREA WITH CHAMAEBATIA. LAVA CAP WITH GRAYISH SOIL. BROMUS IN LAVA CAP AREA.				
General:	POP #S FOR PORTIONS OF SITE: 230+ PLANTS IN 1990, 215 IN 2010, 16+ IN 2012, 250 IN 2013, 251 IN 2015. AREA HAS BEEN FLAGGED. SITE WAS PART OF 2015 POLKA DOT ENDURO ROUTE BUT THERE WERE NO EFFECTS FROM RACE. INCLUDES FORMER OCCURRENCE #30.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	31	Map Index: 25486	EO Index: 5790	Element Last Seen:	2013-11-04
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2013-11-04
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-05
Quad Summary:	Caldor (3812054)				
County Summary:	El Dorado				
Lat/Long:	38.57637 / -120.4535		Accuracy:	specific area	
UTM:	Zone-10 N4272843 E721831		Elevation (ft):	4400	
PLSS:	T08N, R14E, Sec. 5, NW (M)		Acres:	3.0	
Location:	SOUTH OF JUNCTION OF 8N58 AND 8N58C ABOUT 1.3 AIR MILES NORTH OF FIVE CORNERS, BIG MOUNTAIN RIDGE.				
Detailed Location:	BOTH SIDES OF 8N58, ABOUT 1 AIR MILE NW OF PIPI CAMPGROUND. MAPPED AS 4 POLYGONS BY CNDDDB BASED ON USFS DIGITAL DATA. USFS POPULATION #03-82.				
Ecological:	SIERRAN MIXED CONIFER FOREST. ASSOCIATED WITH QUERCUS KELLOGGII, PINUS PONDEROSA, AND CALOCEDRUS CANOPY AND CHAMABAETIA, ARCTOSTAPHYLOS VISCIDA, A. PATULA, STIPA, BROMUS, CYNOSURUS, ASCLEPIAS, NAVARRETIA, COLLOMIA, AND DICHELOSTEMMA BELOW.				
General:	110 PLANTS IN 1990, 215 PLANTS SEEN IN 1992 (200 PLANTS ABOVE THE ROAD, 15 PLANTS BELOW THE ROAD). AREA HAS BEEN FLAGGED. 97 PLANTS SEEN IN 2009 AND 219+ PLANTS SEEN IN 2013.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	33	Map Index: 25477	EO Index: 5982	Element Last Seen:	2012-06-27
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	2012-06-27
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-27
Quad Summary:	Caldor (3812054)				
County Summary:	El Dorado				
Lat/Long:	38.62205 / -120.46356		Accuracy:	specific area	
UTM:	Zone-10 N4277888 E720814		Elevation (ft):	4760	
PLSS:	T09N, R14E, Sec. 19, NE (M)		Acres:	5.9	
Location:	ALONG 9N49 ABOUT 100 M EAST OF 9N86 AND ABOUT 1/2 AIR MI NNE OF JCT OF N STEELY CRK AND S STEELY CRK, 2 MI NW OF CALDOR.				
Detailed Location:	BOTH SIDES OF 9N49 JUST EAST OF 9N86.				
Ecological:	OPEN WESTSIDE PONDEROSA PINE FOREST WITH PATCHY CHAMAEBATIA AND ARCTOSTAPHYLOS ON A SOUTH-FACING SLOPE. OTHER ASSOCIATES INCLUDE QUERCUS KELLOGGII, CALOEDRUS, ERIOPHYLLUM, BRODIAEA, GAYOPHYTUM, PENSTEMON, STIPA SPP, AND BROMUS.				
General:	32 PLANTS SEEN IN 1990; THE ENTIRE HILLSIDE WHERE THE POPULATION IS FOUND IS EXCELLENT HABITAT, IN ADDITION TO CALOCHORTUS THE AREA HAS A LARGE STIPA COMPONENT. AREA HAS BEEN FLAGGED FOR PROTECTION. 30 PLANTS SEEN IN 2012.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	34	Map Index: 25479	EO Index: 5791	Element Last Seen:	1992-05-21
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1992-05-21
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-16
Quad Summary:	Caldor (3812054)				
County Summary:	El Dorado				
Lat/Long:	38.59623 / -120.49882		Accuracy:	specific area	
UTM:	Zone-10 N4274938 E717822		Elevation (ft):	3850	
PLSS:	T09N, R13E, Sec. 36, NW (M)		Acres:	11.0	
Location:	NORTHEAST OF DOGTOWN CREEK AND ABOUT 0.7 AIR MILE WNW OF CONFLUENCE OF DOGTOWN CREEK AND MIDDLE DRY CREEK.				
Detailed Location:	ABOUT 3 MILES WEST OF CALDOR ON 9N45, 300' PAST THE CATTLE GUARD. PLANTS IN TWO COLONIES, ABOUT 1/4 MILE DOWN THE FIRST MINOR DRAINAGE WEST OF THE CATTLE GUARD. USFS POPULATION #S 03-15 AND 03-79.				
Ecological:	LATER SERAL MIXED CONIFER FOREST INCLUDING PINUS PONDEROSA, P. LAMBERTIANA, CALOEDRUS, AND QUERCUS KELLOGGII. UNDERSTORY OF SHIN-HIGH ARCTOSTAPHYLOS, BRODIAEA, CLARKIA, AND FRITILLARIA. SOILS ARE JOSEPHINE ROCKY LOAM.				
General:	430 PLANTS OBSERVED IN NORTH POLYGON IN 1989, 19 PLANTS OBSERVED IN SOUTH POLYGON IN 1992. SITE IS A LITTLE UNUSUAL IN THAT IT IS IN A DRAINAGE (S EXPOSURE THOUGH).				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	35	Map Index: 25487	EO Index: 5785	Element Last Seen:	2015-05-12
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2015-05-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-28
Quad Summary:	Caldor (3812054)				
County Summary:	El Dorado				
Lat/Long:	38.56327 / -120.48765		Accuracy:	specific area	
UTM:	Zone-10 N4271307 E718896		Elevation (ft):	4300	
PLSS:	T08N, R13E, Sec. 12, NE (M)		Acres:	2.0	
Location:	TOP OF RIDGE ABOUT 1.7 AIR MILES WEST OF FIVE CORNERS, GOLD NOTE RIDGE.				
Detailed Location:	MAPPED BY CNDDDB AS 2 POLYGONS BASED ON 2015 ELDORADO NF DIGITAL DATA. 1989 HAND-DRAWN MAP SHOWS PLANTS IN SLIGHTLY DIFFERENT LOCATIONS; ASSUMPTION MADE AT CNDDDB THAT 2015 DATA IS MORE PRECISE. USFS POPULATION #19.				
Ecological:	LOWER MONTANE CONIFEROUS FOREST WITH A CANOPY OF PINUS PONDEROSA, CALOCEDRUS, AND QUERCUS KELLOGGII ON OPEN SOUTH-FACING HILLSIDE. ARCTOSTAPHYLOS AND CHAMAEBATIA DOMINATE THE UNDERSTORY. SOILS ARE IRON MOUNTAIN VERY ROCKY SANDY LOAM.				
General:	WEST POLYGON: 1 PLANT SEEN IN 1989, 2 IN 2012, 35 IN 2013, 10 IN 2015. EAST POLYGON: 1 PLANT SEEN IN 1989, 7 IN 2009, NONE IN 2012, 2013 & 2015.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	36	Map Index: 25488	EO Index: 5784	Element Last Seen:	2015-05-12
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	2015-05-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-01
Quad Summary:	Caldor (3812054)				
County Summary:	El Dorado				
Lat/Long:	38.55544 / -120.4423		Accuracy:	specific area	
UTM:	Zone-10 N4270547 E722871		Elevation (ft):	4650	
PLSS:	T08N, R14E, Sec. 9, SW (M)		Acres:	3.0	
Location:	TOP OF RIDGE ABOUT 0.8 AIR MILE EAST OF FIVE CORNERS ALONG 8N48, GOLD NOTE RIDGE.				
Detailed Location:	SOUTH SIDE OF 8N48, ABOUT 350 METERS EAST OF 8N48A. PLANTS ARE LOCATED 50 METERS SOUTH OF ROAD UNDER OLD BLACK OAK. MAPPED AS 2 POLYGONS FROM 2015 ELDORADO NF DIGITAL DATA IN THE SW 1/4 OF THE SW 1/4 OF SECTION 9. USFS POPULATION #03-30.				
Ecological:	LOWER MONTANE CONIFEROUS FOREST WITH A CANOPY OF QUERCUS KELLOGGII, CALOCEDRUS, AND PINUS PONDEROSA. MODERATE SHRUB LAYER OF CHAMAEBATIA FOLIOLOSA. COBBLY ANDESITIC OPENING WITH COHASSET-MCCARTHY ASSOCIATION SOILS.				
General:	EAST POLYGON: 13 PLANTS OBSERVED IN 1989, 113 PLANTS IN 2005, NONE FOUND IN 2009, 200 IN 2013. WEST POLYGON: ~830 PLANTS ESTIMATED IN 2010, 73 PLANTS OBSERVED IN 2015.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	37	Map Index: 25475	EO Index: 5783	Element Last Seen:	2010-06-15
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2010-06-15
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-06

Quad Summary: Caldor (3812054)

County Summary: El Dorado

Lat/Long:	38.5473 / -120.43699	Accuracy:	specific area
UTM:	Zone-10 N4269656 E723360	Elevation (ft):	4700
PLSS:	T08N, R14E, Sec. 16, N (M)	Acres:	28.0

Location: ON RIDGE NORTH OF SAWMILL ALONG SOPIAGO CREEK ABOUT 1.2 AIR MILES SE OF FIVE CORNERS, GOLD NOTE RIDGE.

Detailed Location: ALONG USFS ROAD 8N45 AND 8N87. MAPPED AS 4 POLYGONS. USFS POPULATION #03-16.

Ecological: LOWER MONTANE CONIFEROUS FOREST WITH QUERCUS SPP. CANOPY. GROWING WITH ARCTOSTAPHYLOS ON RELATIVELY FLAT ANDESITIC COBBLY RIDGETOP AND SOUTH-FACING OPENING. SOILS ARE MCCARTHY-LEDMOUNT ASSOCIATION.

General: POPULATION NUMBERS ARE FOR PORTIONS OF SITE: 15 PLANTS SEEN IN 1988, 54 PLANTS SEEN IN TWO MIDDLE POLYGONS IN 1989, 28 PLANTS IN TWO EASTERN POLYGONS IN 2002, NO PLANTS IN 2009, 70 PLANTS IN TWO EASTERN POLYGONS IN 2010.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	38	Map Index: 25489	EO Index: 5782	Element Last Seen:	2002-05-07
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2002-05-07
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-27

Quad Summary: Caldor (3812054)

County Summary: El Dorado

Lat/Long:	38.54794 / -120.42175	Accuracy:	80 meters
UTM:	Zone-10 N4269764 E724685	Elevation (ft):	4920
PLSS:	T08N, R14E, Sec. 15, NW (M)	Acres:	0.0

Location: ALONG 8N45 ABOUT 2 AIR MILES SE OF FIVE CORNERS, GOLD NOTE RIDGE.

Detailed Location: SITE IS ABOUT 2.5 ROAD MILES FROM FIVE CORNERS ON 8N45. NORTH SIDE OF ROAD JUST PAST THE FOREST SERVICE PROPERTY BOUNDARY. USFS POPULATION #03-125.

Ecological: MIXED CONIFER FOREST WITH 20% CANOPY OF PINUS PONDEROSA, QUERCUS KELLOGGII, CALOCEDRUS, AND P. LAMBERTIANA. ASSOCIATES INCLUDE ZIGADENUS, BRODIAEA, FRITILLARIA, AND ARCTOSTAPHYLOS. SOILS ARE OF THE COHASSET-MCCARTHY ASSOCIATION.

General: 25 PLANTS SEEN IN 1991, 57 PLANTS IN 1992, 50-100 PLANTS IN 1993. AREA POSTED WITH ONLY A 10' BUFFER. UNKNOWN NUMBER OF PLANTS OBSERVED IN 2002.

Owner/Manager: PVT



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	39	Map Index: 25490	EO Index: 5781	Element Last Seen:	2006-06-06
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2006-06-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-27
Quad Summary:	Caldor (3812054)				
County Summary:	El Dorado				
Lat/Long:	38.54570 / -120.41541		Accuracy:	80 meters	
UTM:	Zone-10 N4269531 E725245		Elevation (ft):	5040	
PLSS:	T08N, R14E, Sec. 15, NE (M)		Acres:	0.0	
Location:	ALONG 8N45 ABOUT 2.3 AIR MILES SE OF FIVE CORNERS, GOLD NOTE RIDGE.				
Detailed Location:	NORTHWEST ON 8N45 ABOUT 2.75 MILES FROM HWY 88, JUST PAST USFS PROPERTY BOUNDARY. PLANTS ARE ~600' UPSLOPE (SOUTH) FROM THE ROAD. USFS POPULATION #03-89.				
Ecological:	SIERRAN MIXED CONIFER FOREST DOMINATED BY PINUS PONDEROSA, CALOCEDRUS, AND QUERCUS KELLOGGII. MODERATE TO SPARSE PATCHES OF CHAMAEBATIA WITH HERBACEOUS ASSOCIATES FRITILLARIA, STIPA, AND GILIA. SOILS ARE COHASSET-MCCARTHY ASSOCIATION.				
General:	8 PLANTS SEEN IN 1992. 131 PLANTS SEEN IN 2006.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	40	Map Index: 25476	EO Index: 12681	Element Last Seen:	2005-06-24
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2005-06-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-10-29
Quad Summary:	Caldor (3812054)				
County Summary:	El Dorado				
Lat/Long:	38.53893 / -120.41340		Accuracy:	specific area	
UTM:	Zone-10 N4268785 E725441		Elevation (ft):	4850	
PLSS:	T08N, R14E, Sec. 15, SE (M)		Acres:	41.0	
Location:	RIDGE NORTH OF SOPIAGE CREEK ABOUT 1.6 AIR MILES WSW OF ARMSTRONG HILL LOOKOUT, GOLD NOTE RIDGE.				
Detailed Location:	SW POLY MAPPED ACCORDING TO A 1991 ROHSSLER MAP AND EXTENDED BASED ON A 2005 BRODERICK & ENGSTROM MAP (SPI POP #02210). NE-MOST POLY BASED ON A 2005 ENGSTROM & BRODERICK MAP (SPI POP #062405 C).				
Ecological:	MIXED CONIFER FOREST. PONDEROSA PINE, INCENSE CEDAR, SUGAR PINE, WHITE FIR, BLACK OAK, CHAMAEBATIA FOLIOLOSA, MIMULUS BICOLOR, CYNOSURUS, ERIOPHYLLUM, CLARKIA RHOMBOIDEA, ZIGADENUS, DICHELOSTEMMA. MEHRTEN SOILS. SOUTH ASPECT.				
General:	50 PLANTS SEEN IN 1991; SITE FLAGGED TO PROTECT DURING TIMBER HARVEST OPERATIONS. SW POLY HAD 100 PLANTS IN 2005; NE POLY HAD 10 PLANTS IN 2005.				
Owner/Manager:	PVT				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	41	Map Index: 25494	EO Index: 5777	Element Last Seen:	2007-04-02
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2007-04-02
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-07

Quad Summary: Caldor (3812054)

County Summary: Amador, El Dorado

Lat/Long:	38.53083 / -120.42161	Accuracy:	specific area
UTM:	Zone-10 N4267865 E724751	Elevation (ft):	5000
PLSS:	T08N, R14E, Sec. 22 (M)	Acres:	10.0

Location: NORTH SIDE OF HWY 88 ABOUT 0.95 AIR MILE ENE OF COOKS STATION, ON RIDGE BETWEEN SOPIAGO CREEK AND TIGER CREEK.

Detailed Location: 200 FEET NORTH OF THE ROAD ON RIDGETOP. EAST POLYGON BASED ON 1991 LESKY MAP; WEST POLYGON BASED ON USFS DIGITAL DATA SUBMITTED IN 2014. BOTH POLYGONS MAY ACTUALLY BE SAME SITE; DATA IS UNCLEAR.

Ecological: MIXED CONIFER FOREST WITH 50% CANOPY CLOSURE, MOSTLY SMALL CALOEDRUS. ASSOCIATED WITH ARCTOSTAPHYLOS, CHAMABAETIA, BRODIAEA, POA, AND FRITILLARIA. THIN SOIL OF COHASSET-MCCARTHY ASSOCIATION. NOT TYPICAL HABITAT.

General: 18 PLANTS SEEN IN EAST POLYGON IN 1991; SITE IS APPARENTLY ATYPICAL HABITAT, GROWING ON THIN SOIL, GROWING IN SHADE/MOISTURE OF OLD LOGGING DEBRIS. 64 PLANTS SEEN IN WEST POLYGON IN 2007. USFS POPULATION #03-65.

Owner/Manager: PVT, USFS-ELDORADO NF?

Occurrence No.	42	Map Index: 25491	EO Index: 5780	Element Last Seen:	1991-05-03
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2006-05-01
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-27

Quad Summary: Caldor (3812054)

County Summary: El Dorado

Lat/Long:	38.54660 / -120.39068	Accuracy:	80 meters
UTM:	Zone-10 N4269692 E727398	Elevation (ft):	5100
PLSS:	T08N, R14E, Sec. 14, NE (M)	Acres:	0.0

Location: ALONG 8N45 ABOUT 0.5 AIR MILE NW OF ARMSTRONG HILL LOOKOUT, GOLD NOTE RIDGE.

Detailed Location: NORTH ON 8N45 FROM HWY 88 ABOUT 1.25 MILES. FOLLOW DRAINAGE SOUTHEAST OF ROAD ABOUT 1/4 MI TO OPEN SIDE SLOPE. USFS POPULATION #03-61.

Ecological: VOLCANIC OPENING WITHIN MIXED CONIFER FOREST WITH ABOUT 30-50% CANOPY CLOSURE DOMINATED BY QUERCUS KELLOGGII, CALOEDRUS, AND PINUS PONDEROSA. SHRUB COVER OF ARCTOSTAPHYLOS, OTHER ASSOCIATES INCLUDE BRODIAEA, ZIGADENUS, AND ERIOGONUM.

General: 16 PLANTS OBSERVED IN 1991; SITE FLAGGED, NO IMPACTS ANTICIPATED FROM SALVAGE SALE. NO PLANTS FOUND IN 2006.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	43	Map Index: 25492	EO Index: 5778	Element Last Seen:	2001-05-03
Occ. Rank:	Poor		Presence: Presumed Extant	Site Last Seen:	2001-05-03
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-27
Quad Summary:	Caldor (3812054)				
County Summary:	Amador, El Dorado				
Lat/Long:	38.53948 / -120.39176		Accuracy:	80 meters	
UTM:	Zone-10 N4268899 E727326		Elevation (ft):	5400	
PLSS:	T08N, R14E, Sec. 14, SE (M)		Acres:	0.0	
Location:	BOTH SIDES OF HIGHWAY 88 ABOUT 0.5 AIR MILE WSW OF ARMSTRONG HILL LOOKOUT, GOLD NOTE RIDGE.				
Detailed Location:	EAST ON HWY 88, 2.5 MILES FROM COOKS STATION ON NORTH AND SOUTH SLOPE OF ROAD, AFTER LAST TURNOUT BEFORE HAMS STATION.				
Ecological:	LOWER MONTANE CONIFEROUS FOREST, DOMINATED BY PINUS PONDEROSA, CALOCEDRUS, CEANOTHUS INTEGERRIMUS, ZIGADENUS VENENOSUS, AND CHAMAEBATIA. COHASSET-MCCARTHY SOIL ON OPEN TO SEMI-SHADED STEEP MID-SLOPE.				
General:	5 PLANTS SEEN IN 1990; SEEMS TO BE A VERY SMALL POPULATION, DIVIDED, AND NOT VERY VIGOROUS. SITE HAS BEEN FLAGGED. 14 PLANTS SEEN IN 2001.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	44	Map Index: 25493	EO Index: 5779	Element Last Seen:	2001-05-02
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2001-05-02
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-27
Quad Summary:	Caldor (3812054)				
County Summary:	Amador				
Lat/Long:	38.54352 / -120.37879		Accuracy:	80 meters	
UTM:	Zone-10 N4269380 E728444		Elevation (ft):	5400	
PLSS:	T08N, R14E, Sec. 13, SE (M)		Acres:	0.0	
Location:	SOUTH OF HIGHWAY 88 JUST SOUTHWEST OF HAMS STATION, GOLD NOTE RIDGE.				
Detailed Location:	1000' SOUTHWEST OF HAMS STATION SOUTH OF THE HIGHWAY.				
Ecological:	SURROUNDED BY MIXED CONIFER FOREST WITH 60 % CANOPY COVER, PREDOMINANTLY PINUS PONDEROSA, QUERCUS KELLOGGII, AND CALOCEDRUS. ASSOCIATED WITH ZIGADENUS, STIPA, ARCTOSTAPHYLOS, ERIOGONUM, ONYCHIUM, BROMUS, EPILOBIUM, NAVARRETIA, AND LOTUS.				
General:	1 PLANT OBSERVED IN 1991; LESKY SUGGESTS THAT POPULATION MAY BE LARGER THAN REPORTED DUE TO LATENESS OF SEASON. VERY SUITABLE HABITAT WITH NO VISIBLE DISTURBANCE. SITE HAS BEEN FLAGGED. 43 PLANTS OBSERVED IN 2001.				
Owner/Manager:	PVT				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	45	Map Index: 25384	EO Index: 5993	Element Last Seen: 1992-06-19
Occ. Rank:	Poor		Presence: Presumed Extant	Site Last Seen: 2012-07-26
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2016-07-13

Quad Summary: Omo Ranch (3812055)
County Summary: El Dorado

Lat/Long:	38.62300 / -120.53889	Accuracy:	80 meters
UTM:	Zone-10 N4277815 E714253	Elevation (ft):	3600
PLSS:	T09N, R13E, Sec. 21, NE (M)	Acres:	0.0

Location: ALONG 9N65A NORTH OF STEELY FORK COSUMNES RIVER ABOUT 2.9 AIR MI EAST OF COLES STATION.
Detailed Location: USFS POPULATION #03-87.
Ecological: PLANT GROWING ON EDGE OF CUTBANK WITH PTERIDIUM AND BRODIAEA WITH PINUS AND ABIES SEEDLING.
General: 1 PLANT SEEN IN 1992; SITE IS WITHIN A PLANTATION HERBICIDE UNIT. NO PLANTS FOUND IN 2012.
Owner/Manager: USFS-ELDORADO NF

Occurrence No.	46	Map Index: 25383	EO Index: 5994	Element Last Seen: 1993-10-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1993-10-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1994-04-19

Quad Summary: Omo Ranch (3812055)
County Summary: El Dorado

Lat/Long:	38.61480 / -120.54518	Accuracy:	80 meters
UTM:	Zone-10 N4276890 E713729	Elevation (ft):	3500
PLSS:	T09N, R13E, Sec. 21, SW (M)	Acres:	0.0

Location: RIDGE BETWEEN STEELY FORK COSUMNES RIVER AND CLEAR CREEK, NORTH OF HENRYS DIGGINGS.
Detailed Location: NORTH SIDE OF 9N15Y, ABOUT 1/4 MILE FROM 9N59. USFS POPULATION #03-127.
Ecological: MIXED CONIFER FOREST WITH ROCK OUTCROPS. ASSOCIATED WITH PINUS PONDEROSA, CALOCEDRUS, QUERCUS KELLOGGII, P. LAMBERTIANA, PSEUDOTSUGA, CEANOTHUS INTEGERRIMUS, Q. CHRYSOLEPIS, ARCTOSTAPHYLOS VISCIDA, GALIUM, CLARKIA, IRIS, CHAMAEBATIA, ETC.
General: 14 PLANTS OBSERVED LATE IN THE SEASON IN 1993. ADDITIONAL FIELDWORK EARLIER IN THE SEASON IS NEEDED. PRESENCE OF ROCK OUTCROPS AND LACK OF HARVESTABLE TIMBER MAY MAKE THIS SITE REASONABLY SECURE FROM LOGGING THREATS.
Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	47	Map Index: 25382	EO Index: 5995	Element Last Seen:	1991-07-19
Occ. Rank:	Poor		Presence: Presumed Extant	Site Last Seen:	2012-06-26
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-13
Quad Summary:	Omo Ranch (3812055)				
County Summary:	El Dorado				
Lat/Long:	38.61399 / -120.55863		Accuracy:	80 meters	
UTM:	Zone-10 N4276769 E712560		Elevation (ft):	3400	
PLSS:	T09N, R13E, Sec. 29, NE (M)		Acres:	0.0	
Location:	JUST EAST OF THE CONFLUENCE OF STEELY FORK COSUMNES RIVER AND CLEAR CREEK, NORTH OF HENRYS DIGGINGS.				
Detailed Location:	AT THE END OF 9N15Y, ABOUT 150 METERS DUE EAST OF THE CONFLUENCE OF THE TWO RIVERS. USFS POPULATION #03-67.				
Ecological:	SIERRA MIXED CONIFER FOREST WITH 40% CANOPY COVERAGE, OPEN PATCHES WITH ARCTOSTAPHYLOS AND CHAMAEBATIA. SOILS OF METASEDIMENTARY PARENT MATERIAL, DRY SILTY-CLAY.				
General:	1 DEAD STALK FROM PREVIOUS YEAR OBSERVED LATE IN THE SEASON IN 1991. SITE SHOULD BE RESURVEYED EARLIER IN THE SEASON. WITHIN THE 1992 HENRY'S GREEN TIMBER SALE, NO INFORMATION REGARDING IMPACTS. NO PLANTS FOUND IN 2012.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	48	Map Index: 25381	EO Index: 5996	Element Last Seen:	1992-08-13
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1992-08-13
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-04-01
Quad Summary:	Omo Ranch (3812055)				
County Summary:	El Dorado				
Lat/Long:	38.60679 / -120.57469		Accuracy:	80 meters	
UTM:	Zone-10 N4275933 E711183		Elevation (ft):	3500	
PLSS:	T09N, R13E, Sec. 30, NE (M)		Acres:	0.0	
Location:	ALONG 9N45.1 ON RIDGE BETWEEN STEELY FORK COSUMNES RIVER AND MIDDLE FORK COSUMNES RIVER, WEST OF HENRYS DIGGINGS.				
Detailed Location:	NORTH SIDE OF THE ROAD ABOUT 0.3 MILE FROM 9N45M. USFS POPULATION #03-100.				
Ecological:	PLANTS FOUND GROWING IN PATCHY GRASSY OPENINGS WITH PINUS PONDEROSA, CALOEDRUS, ARCTOSTAPHYLOS, CEANOTHUS, CHAMAEBATIA, BRODIAEA, CLARKIA, AND STIPA. AIKEN LOAM SOILS.				
General:	16 PLANTS OBSERVED OVER 2 ACRES IN 1992. MORE COMPLETE SURVEYS REQUESTED FOR 1993.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	49	Map Index: 25387	EO Index: 5990	Element Last Seen:	1992-07-23
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1998-05-18
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-27
Quad Summary:	Omo Ranch (3812055)				
County Summary:	El Dorado				
Lat/Long:	38.59458 / -120.56436		Accuracy:	80 meters	
UTM:	Zone-10 N4274602 E712118		Elevation (ft):	3320	
PLSS:	T09N, R13E, Sec. 32, N (M)		Acres:	0.0	
Location:	0.4 MI NNW OF CONFLUENCE OF MIDDLE FORK COSUMNES RIVER AND SOPIAGO CREEK, SOUTH OF HENRYS DIGGINGS.				
Detailed Location:	SOUTH AND EAST OF THE END OF 9N66B. USFS POPULATION #03-97.				
Ecological:	GROWING AMONG COBBLY ROCKS AND ROCK OUTCROPS IN PATCHY OPENINGS OF FOREST CANOPY WITH LATER SERAL PINUS PONDEROSA, QUERCUS CHRYSOLEPIS, ARCTOSTAPHYLOS, CHAMAEBATIA, BRODIAEA, CLARKIA, AND STIPA. HOLLAND VERY ROCKY COARSE SANDY LOAM SOILS.				
General:	57 PLANTS OBSERVED OVER 2 ACRES IN 1992; SITE FLAGGED FOR PROTECTION. NO PLANTS OBSERVED IN 1998.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	50	Map Index: 25386	EO Index: 5991	Element Last Seen:	1993-06-24
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2012-07-25
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-05
Quad Summary:	Omo Ranch (3812055)				
County Summary:	El Dorado				
Lat/Long:	38.59190 / -120.54259		Accuracy:	specific area	
UTM:	Zone-10 N4274355 E714022		Elevation (ft):	3420	
PLSS:	T09N, R13E, Sec. 33, NE (M)		Acres:	10.0	
Location:	VICINITY OF LITTLE MOUNTAIN, 0.6-0.9 AIR MI EAST OF THE CONFLUENCE OF THE MIDDLE FORK COSUMNES RIVER AND DOGTOWN CREEK.				
Detailed Location:	W POLY: IN A CLUSTER OF SMALL ROCKS AT THE TOP OF LITTLE MOUNTAIN, 1/8 MILE SOUTH OF 9N60.1; USFS POP #03-120. E POLY: NORTH SIDE OF THE ROAD ON SW-FACING BEND OF 9N60.1, SOME PLANTS GROWING OUT OF MANZANITA BURLS; USFS POP #03-18.				
Ecological:	W POLY: CANYON LIVE OAK FOREST W/ QUERCUS CHRYSOLEPIS, Q. KELLOGGII, PINUS PONDEROSA, & CALOCEDRUS. E POLY: LOWER MONTANE CONIFEROUS FOREST AT A STEEP OPENING ABOVE ACTIVELY ERODING RDCUT; ASSOC INCL Q. KELL & Q. CHRY, P. LAMBERTIANA, ETC.				
General:	W POLYGON: 60 PLANTS OVER 0.16 ACRE IN 1993 (SITE FLAGGED). E POLYGON: 42 PLANTS IN 1989 (AREA WAS BURNED RECENTLY; SITE FLAGGED), NO PLANTS FOUND IN 2012. INCLUDES FORMER OCCURRENCE #51.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	52	Map Index: 25380	EO Index: 5989	Element Last Seen:	2003-07-10
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2003-07-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-05
Quad Summary:	Omo Ranch (3812055)				
County Summary:	El Dorado				
Lat/Long:	38.53713 / -120.52037		Accuracy:	specific area	
UTM:	Zone-10 N4268328 E716122		Elevation (ft):	3550	
PLSS:	T08N, R13E, Sec. 23, NW (M)		Acres:	18.5	
Location:	BOTH SIDES OF SEASONAL TRIBUTARY TO SCOTT CREEK ABOUT 1/2 MILE W OF THE MOUTH OF OREGON GULCH, S SLOPE OF BARNEY RIDGE.				
Detailed Location:	THREE COLONIES MAPPED AS 1 POLYGON NEAR THE END OF 8N61D, ABOUT 0.6 MILE FROM 8N61. USFS POPULATION #03-81.				
Ecological:	SIERRAN MIXED CONIFER FOREST DOMINATED BY PSEUDOTSUGA, CALO CEDRUS, AND QUERCUS KELLOGGII. UNDERSTORY OF CHAMAEBATIA, SANICULA, JUNCUS, BROMUS, VIOLA, LUPINUS, VICIA, GILIA, AND SENECIO. COHASSET-MCCARTHY ASSOCIATION SOILS.				
General:	88 PLANTS OBSERVED IN THREE COLONIES IN 1992. 2003: 19 PLANTS SEEN IN WESTERN COLONY, NO PLANTS FOUND IN OTHER TWO COLONIES. SITE DELINEATED WITH FLAGGING FOR PROTECTION.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	53	Map Index: 25397	EO Index: 13388	Element Last Seen:	2004-08-03
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2004-08-03
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-15
Quad Summary:	Old Iron Mountain (3812064)				
County Summary:	El Dorado				
Lat/Long:	38.74009 / -120.40333		Accuracy:	specific area	
UTM:	Zone-10 N4291136 E725687		Elevation (ft):	4450	
PLSS:	T10N, R14E, Sec. 10, NE (M)		Acres:	12.0	
Location:	EAST OF PLUM CREEK NEAR 10N21Y ABOUT 0.8 AIR MILE ESE OF PLUM CREEK MILL SITE, WEST SLOPE OF PLUM CREEK RIDGE.				
Detailed Location:	NEAR THE END OF 10N21Y ON RIDGETOP WITH LAVA ROCK BEDS, ROCKY OUTCROPS AND BROKEN RUBBLE. MAPPED AS 2 POLYGONS BY CNDDB. NORTH POLYGON BASED ON 1993 FIELD SURVEY, SOUTH POLYGON BASED ON USFS DIGITAL DATA.				
Ecological:	GROWING ON THIN SOIL BETWEEN CLUMPS OF ARCTOSTAPHYLOS VISCIDA AND QUERCUS CHRYSOLEPIS. ASSOICATED WITH PINUS PONDEROSA, P. LAMBERTIANA, Q. KELLOGGII, CLARKIA, MIMULUS, PELLEA, ETC. LEDMOUNT ROCK OUTCROPS IN COHASSET-MCCARTHY RHYOLITE.				
General:	227 PLANTS OBSERVED IN NORTH POLYGON IN 1993; MOST PLANTS HEALTHY AND VIGOROUS, SITE HAS BEEN FLAGGED FOR PROTECTION. 40 PLANTS OBSERVED IN SOUTH POLYGON IN 2004. USFS POPULATION #03-118.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	54	Map Index: 25401	EO Index: 15679	Element Last Seen:	1992-07-14
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1992-07-14
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-04-05
Quad Summary:	Old Iron Mountain (3812064)				
County Summary:	El Dorado				
Lat/Long:	38.73559 / -120.43090		Accuracy:	80 meters	
UTM:	Zone-10 N4290569 E723304		Elevation (ft):	4880	
PLSS:	T10N, R14E, Sec. 09, NW (M)		Acres:	0.0	
Location:	NORTH OF NORTH PARK CREEK 0.6 AIR MILE SE OF GIRARD MILL SITE, IRON MOUNTAIN RIDGE.				
Detailed Location:	SOUTH SIDE OF 10N51, ABOUT 2 MILES FROM 10N45, JUST BEFORE RIDGETOP ROAD ON THE RIGHT. USFS POPULATION #03-93.				
Ecological:	GRASSY, ROCKY OPENING IN CANOPY WITH LATE SERAL PINUS PONDEROSA, CALOCEDRUS, PSEUDOTSUGA, QUERCUS CHRYSOLEPIS, Q. KELLOGGII, FRITILLARIA, BRODIAEA, ASCLEPIAS, STIPA, CLARKIA, AND PATCHY CHAMAEBATIA. MCCARTHY-LEDMOUNT SOILS.				
General:	4 PLANTS OBSERVED OVER 2 ACRES IN 1992. PLANTS APPEAR HEALTHY. SITE FLAGGED FOR PROTECTION.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	55	Map Index: 25402	EO Index: 12360	Element Last Seen:	1991-08-06
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2004-06-01
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-15
Quad Summary:	Old Iron Mountain (3812064)				
County Summary:	El Dorado				
Lat/Long:	38.69409 / -120.46217		Accuracy:	80 meters	
UTM:	Zone-10 N4285887 E720713		Elevation (ft):	4800	
PLSS:	T10N, R14E, Sec. 30, NE (M)		Acres:	0.0	
Location:	SOUTH OF 10N59.1 ALONG THE SOUTH SLOPE OF RIDGE BETWEEN SNOW CREEK AND CAMP CREEK ABOUT 3/4 MI ESE OF THEIR CONFLUENCE.				
Detailed Location:	NEAR THE CENTER OF THE NE 1/4 OF SECTION 30. USFS POPULATION #03-71.				
Ecological:	ROCKY WITH ARCTOSTAPHYLOS PATULA, CALOCEDRUS, PINUS PONDEROSA, FRITILLARIA, BRODIAEA, IRIS, AND CHAMAEBATIA. DRY, ROCKY, SILTY-CLAY LOAM.				
General:	10 PLANTS SEEN IN 1991. SITE IS FAIRLY UNDISTURBED; A FIRE MAY HAVE GONE THROUGH HERE SEVERAL YEARS AGO. SITE HAS BEEN FLAGGED FOR PROTECTION DURING TIMBER HARVEST OPERATIONS. NO PLANTS OBSERVED IN 2004 REVISIT.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	56	Map Index: 25403	EO Index: 14088	Element Last Seen:	2001-05-14
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2001-05-14
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-15
Quad Summary:	Old Iron Mountain (3812064)				
County Summary:	El Dorado				
Lat/Long:	38.69276 / -120.45119		Accuracy:	80 meters	
UTM:	Zone-10 N4285766 E721673		Elevation (ft):	4960	
PLSS:	T10N, R14E, Sec. 29, NW (M)		Acres:	0.0	
Location:	TOP OF RIDGE BETWEEN SNOW CREEK AND CAMP CREEK, ABOUT 0.3 AIR MI SOUTHWEST OF THE MOUTH OF BIG PEBBLE CANYON.				
Detailed Location:	SITE IS NEAR THE END OF TRAIL ON TOPO WITHIN THE SE 1/4 OF THE NW 1/4 OF SECTION 29. USFS POPULATION #03-21.				
Ecological:	LOWER MONTANE CONIFEROUS FOREST WITH A CANOPY OF PINUS PONDEROSA, CALOCEDRUS, AND QUERCUS KELLOGGII. UNDERSTORY OF ARCTOSTAPHYLOS AND CHAMAEBATIA. COBBLY ANDESITIC ROCKS ON MCCARTHY-LEDMOUNT ASSOCIATION SOILS.				
General:	5 PLANTS OBSERVED IN 1989; MORE PLANTS MAY OCCUR HERE BUT THICK STAND OF ARCTOSTAPHYLOS MAKES SEARCHING DIFFICULT. ADJACENT AREA LOGGED, BURNED. 247 PLANTS OBSERVED IN 2001.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	57	Map Index: 25398	EO Index: 14090	Element Last Seen:	1993-05-12
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1993-05-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-04-05
Quad Summary:	Old Iron Mountain (3812064)				
County Summary:	El Dorado				
Lat/Long:	38.68569 / -120.43270		Accuracy:	specific area	
UTM:	Zone-10 N4285026 E723303		Elevation (ft):	4900	
PLSS:	T10N, R14E, Sec. 28, SW (M)		Acres:	30.3	
Location:	S FACE OF RIDGE BETWEEN BIG PEBBLE CANYON AND CAMP CREEK ABOUT 0.6 AIR MI WNW OF MOUTH OF VAN HORN CREEK, BALTIC RIDGE.				
Detailed Location:	TWO COLONIES, ONE ON EITHER SIDE OF DRAINAGE INTO CAMP CREEK, ABOUT 200 YARDS SOUTH OF 10N58E, BELOW THE "5222" RIDGE ON THE TOPO. USFS POPULATION #03-116.				
Ecological:	SMALL OPENINGS IN ARCTOSTAPHYLOS BRUSHFIELD WITH A SCATTERING OF QUERCUS KELLOGGII, PINUS PONDEROSA, AND CALOCEDRUS. OTHER PLANTS INCLUDE LOMATIUM, ASCLEPIAS, MIMULUS, ETC. MCCARTHY-LEDMOUNT SOILS ON S-FACING SLOPES W/ LAVA ROCK BEDS.				
General:	1000+ PLANTS OBSERVED IN 1993. PRESCRIBED BURN HAS BEEN RECOMMENDED TO IMPROVE HABITAT FOR CALOCHORTUS.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	58	Map Index: 25404	EO Index: 25933	Element Last Seen: 1992-07-13
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 2004-07-26
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2016-07-15
Quad Summary:	Old Iron Mountain (3812064)			
County Summary:	El Dorado			
Lat/Long:	38.66871 / -120.45264		Accuracy: 80 meters	
UTM:	Zone-10 N4283093 E721621		Elevation (ft): 4880	
PLSS:	T09N, R14E, Sec. 05, NW (M)		Acres: 0.0	
Location:	NORTH OF THE NORTH FORK COSUMNES RIVER ABOUT 0.4 MI S OF BONETTI AND 0.8 MI WNW OF MOUTH OF VAN HORN CRK, BALTIC RIDGE.			
Detailed Location:	ALONG THE WEST SIDE OF 10N55 ABOUT 2.5 MILES FROM NORTH-SOUTH ROAD. USFS POPULATION #03-104.			
Ecological:	OPENINGS ALONG NORTH AND WEST BORDERS OF PLANTATION AND INTO ADJACENT FOREST. ASSOCIATED WITH PINUS PONDEROSA, CALOCEDRUS, FRITILLARIA, ARCTOSTAPHYLOS, AND CEANOTHUS. MCCARTHY GRAVELLY SANDY LOAM AND CHAIX-PILLIKEN COARSE SANDY LOAMS.			
General:	15 PLANTS OBSERVED OVER 1.5 ACRES IN 1992; POPULATION APPEARS TO HAVE RESPONDED FAVORABLY TO BURN AND SUBSEQUENT LACK OF COMPETITION FROM OTHER HERBACEOUS SPECIES. EFFECTS OF HERBICIDE ARE TO BE MONITORED. NO PLANTS SEEN IN 2004.			
Owner/Manager:	USFS-ELDORADO NF			
Occurrence No.	59	Map Index: 25405	EO Index: 21975	Element Last Seen: 1995-05-02
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 2004-07-28
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2016-06-28
Quad Summary:	Old Iron Mountain (3812064)			
County Summary:	El Dorado			
Lat/Long:	38.64856 / -120.47504		Accuracy: 80 meters	
UTM:	Zone-10 N4280803 E719734		Elevation (ft): 4800	
PLSS:	T09N, R14E, Sec. 07, NW (M)		Acres: 0.0	
Location:	NORTH SIDE OF HARREL STUB ROAD ABOUT 500 METERS SOUTHWEST OF HARREL FIRE TANK, LONG CANYON.			
Detailed Location:	TALUS SLOPE OF THE EDGE OF ROADCUT. USFS POPULATION #03-70.			
Ecological:	SIERRAN MIXED CONIFER FOREST WITH OPEN PATCHES OF CHAMAEBATIA COVER. ASSOCIATED WITH CHLOROGALUM, BRODIAEA, FRITILLARIA, CLARKIA, ARCTOSTAPHYLOS, ETC. SILTY CLAY WITH COBBLES, TALUS SLOPE; JOCAL ASSOCIATION SOILS.			
General:	1 PLANT OBSERVED IN 1991; CONTROLLED BURN RECOMMENDED TO SUPPRESS HERBACEOUS COMPETITION. SITE FLAGGED TO PROTECT FROM POTENTIAL THREATS. 16 PLANTS OBSERVED IN 1995, NONE FOUND IN 2004.			
Owner/Manager:	USFS-ELDORADO NF			



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	60	Map Index: 25406	EO Index: 21978	Element Last Seen:	1992-07-27
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2012-06-27
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-15

Quad Summary: Old Iron Mountain (3812064)
County Summary: El Dorado

Lat/Long:	38.63419 / -120.47348	Accuracy:	80 meters
UTM:	Zone-10 N4279212 E719913	Elevation (ft):	4850
PLSS:	T09N, R14E, Sec. 18, NW (M)	Acres:	0.0

Location: ALONG 9N12Y ABOUT 1.1 AIR MILES EAST OF GILBERTS, TONY GULCH.
Detailed Location: 0.3 MILE EAST OF 9N75 AND ABOUT 100' NORTH OF THE ROAD. PLANTS FOUND ON BENCH OF MODERATELY STEEP SLOPE. USFS POPULATION #03-98.
Ecological: GROWING AMONG COBBLY ROCKS AND SHIN-HIGH CHAMAEBATIA WITHIN OPENINGS IN PINUS PONDEROSA, CALOCEDRUS, AND QUERCUS KELLOGGII. ASSOCIATED WITH BRODIAEA, CLARKIA, AND STIPA. JOSEPHINE ROCKY LOAM SOILS.
General: 2 PLANTS OBSERVED OVER 1 ACRE IN 1992; PLANTS WERE SMALL AND THE POPULATION MAY BE IN DECLINE DUE TO CONTINUED DISTURBANCE. NO PLANTS OBSERVED IN 2012.
Owner/Manager: USFS-ELDORADO NF

Occurrence No.	61	Map Index: 25399	EO Index: 21980	Element Last Seen:	1991-07-24
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2012-07-27
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-28

Quad Summary: Caldor (3812054), Old Iron Mountain (3812064)
County Summary: El Dorado

Lat/Long:	38.62304 / -120.47151	Accuracy:	specific area
UTM:	Zone-10 N4277979 E720119	Elevation (ft):	4500
PLSS:	T09N, R14E, Sec. 19, NW (M)	Acres:	10.1

Location: SOUTHWEST SIDE OF RIDGE BETWEEN SALT ROCK CREEK AND STEELY FORK COSUMNES RIVER, ABOUT 1/2 MILE EAST OF THEIR CONFLUENCE.
Detailed Location: USFS POPULATION #03-69. MAPPED AS THREE SMALL POLYGONS AT CNDDDB.
Ecological: DRY STEEP SLOPE WITH SOME ROCKY GRANITE OUTCROPPINGS. MIXED CONIFER FOREST WITH CHAMAEBATIA AND ARCTOSTAPHYLOS UNDERSTORY. COMMON HERBS INCLUDE CLARKIA, ERIOGONUM, AND GALIUM.
General: 28 PLANTS OBSERVED IN 1992 DURING CURSORY SURVEY; SITE HAS BEEN FLAGGED TO AVOID POTENTIAL TIMBER HARVEST IMPACTS. NO PLANTS FOUND IN 2012.
Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	62	Map Index: 25396	EO Index: 12916	Element Last Seen:	1998-08-06
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1998-08-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-15
Quad Summary:	Old Iron Mountain (3812064)				
County Summary:	El Dorado				
Lat/Long:	38.63714 / -120.43171		Accuracy:	specific area	
UTM:	Zone-10 N4279640 E723541		Elevation (ft):	4900	
PLSS:	T09N, R14E, Sec. 16, N (M)		Acres:	20.0	
Location:	1/2 MILE SSW OF DUNCAN CORRAL, SOUTH SIDE OF RIDGE BETWEEN NORTH FORK COSUMNES RIVER AND NORTH STEELY CREEK.				
Detailed Location:	NORTH SIDE OF 9N89 ABOUT 2.6 MILES EAST OF 9N30.2. MAPPED AS 2 POLYGONS IN THE NORTH HALF OF SECTION 16. USFS POPULATION #03-22.				
Ecological:	LOWER MONTANE CONIFEROUS FOREST WITH A CANOPY OF PINUS PONDEROSA, CALOCEDRUS, AND QUERCUS KELLOGGII. UNDERSTORY OF ARCTOSTAPHYLOS AND CHAMAEBATIA. MCCARTHY-LEDMOUNT ASSOCIATION SOILS WITH COBBLY ANDESITIC ROCKS.				
General:	EAST POLYGON: 99 PLANTS OBSERVED IN 1989, 481 PLANTS IN 1990. WEST POLYGON: 27 PLANTS OBSERVED IN 1998. SITE HAS BEEN FLAGGED.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	63	Map Index: 25400	EO Index: 15676	Element Last Seen:	2001-07-18
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2001-07-18
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-15
Quad Summary:	Old Iron Mountain (3812064)				
County Summary:	El Dorado				
Lat/Long:	38.63951 / -120.41638		Accuracy:	specific area	
UTM:	Zone-10 N4279941 E724868		Elevation (ft):	5262	
PLSS:	T09N, R14E, Sec. 10, SW (M)		Acres:	20.0	
Location:	DUNCAN CORRAL EXTENDING ~0.7 AIR MILE SE, SOUTH SIDE OF RIDGE BETWEEN NORTH FORK COSUMNES RIVER AND NORTH STEELY CREEK.				
Detailed Location:	MAPPED AS 4 POLYGONS ALONG NORTH SIDE OF 9N89 BASED ON USFS DIGITAL DATA. USFS POPULATION #S 03-53, 03-63, AND 03-96.				
Ecological:	MIXED CONIFER FOREST WITH PINUS PONDEROSA, CALOCEDRUS, PSEUDOTSUGA, ARCTOSTAPHYLOS, CHAMAEBATIA, FRITILLARIA, BRODIAEA, MONARDELLA, AND ANNUAL GRASSES. MCCARTHY GRAVELLY LOAM SOILS.				
General:	POPULATION NUMBERS ARE FOR PORTIONS OF SITE. 23 PLANTS OBSERVED IN S POLYGON IN 1990. 177 PLANTS IN 1991, 20 PLANTS IN 1992, 13 PLANTS IN 2001. SITES HAVE BEEN FLAGGED TO PROTECT FROM LOGGING OPERATIONS.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	64	Map Index: 25407	EO Index: 21981	Element Last Seen:	2012-06-28
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2012-06-28
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-01
Quad Summary:	Old Iron Mountain (3812064)				
County Summary:	El Dorado				
Lat/Long:	38.6279 / -120.43156		Accuracy:	specific area	
UTM:	Zone-10 N4278615 E723582		Elevation (ft):	5060	
PLSS:	T09N, R14E, Sec. 16, S (M)		Acres:	27.0	
Location:	ABOUT 1.2 AIR MILES SSW OF DUNCAN CORRAL, SOUTH SIDE OF RIDGE BETWEEN NORTH AND SOUTH STEELY CREEKS.				
Detailed Location:	NORTH SIDE OF 9N64 ABOUT 0.5 MILE PAST 9N64C. POPULATION IN NARROW, BROKEN BAND ALONG HILLSIDE ABOUT 50 YARDS FROM BOTTOM. MAPPED ACCORDING TO USFS DIGITAL DATA. USFS POPULATION #03-49.				
Ecological:	ASSOCIATED WITH CLUMPED STANDS OF CALOEDRUS, QUERCUS KELLOGGII, ARCTOSTAPHYLOS AND OCCASIONAL PINUS PONDEROSA IN AREAS CONSISTING MOSTLY OF OPEN VEGETATION. MCCARTHY SANDY GRAVELLY LOAM.				
General:	165 PLANTS SEEN IN 1990; POPULATION HAS BEEN FLAGGED FOR AVOIDANCE BY LOGGING OPERATIONS. PORTIONS OF OCCURRENCE HAD 14 PLANTS SEEN IN 1991 AND 7 PLANTS IN 2012.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	65	Map Index: 25408	EO Index: 7752	Element Last Seen:	1992-07-13
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2009-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-15
Quad Summary:	Old Iron Mountain (3812064)				
County Summary:	El Dorado				
Lat/Long:	38.62999 / -120.39376		Accuracy:	80 meters	
UTM:	Zone-10 N4278940 E726866		Elevation (ft):	5600	
PLSS:	T09N, R14E, Sec. 14, SE (M)		Acres:	0.0	
Location:	ABOUT 1.8 AIR MILES SSE OF DUNCAN CORRAL NEAR HEAD OF DOGTOWN CREEK, PLUMMER RIDGE.				
Detailed Location:	ALONG 9N16C ABOUT 1/2 ROAD MILE EAST OF 9N80. SITE IS 100' NORTH OF THE ROAD. USFS POPULATION #03-92.				
Ecological:	FOUND IN ROCK OUTCROP AND ARCTOSTAPHYLOS CLEARING WITHIN PINUS PONDEROSA, CALOEDRUS, AND PSEUDOTSUGA. ASSOCIATED WITH MONARDELLA, CHAMAEBATIA, CHLOROGALUM, FRITILLARIA, AND ANNUAL GRASSES. MCCARTHY-LEDMOUNT SOILS.				
General:	100 PLANTS OBSERVED IN 1992; NO OBVIOUS DISTURBANCE AT THIS SITE, PLANTS SEEM STABLE. FLAGGED FOR PROTECTION FROM TIMBER HARVEST ACTIVITIES. NO PLANTS FOUND IN 2009.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	66	Map Index: 25392	EO Index: 22175	Element Last Seen:	1992-06-18
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	1992-06-18
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-04-01
Quad Summary:	Sly Park (3812065)				
County Summary:	El Dorado				
Lat/Long:	38.71065 / -120.53542		Accuracy:	specific area	
UTM:	Zone-10 N4287551 E714293		Elevation (ft):	3520	
PLSS:	T10N, R13E, Sec. 22, NW (M)		Acres:	10.8	
Location:	STEEP EAST-FACING BANK OF CAMP CREEK EAST OF BLUE GOUGE MINE, SOUTHEAST OF JENKINSON LAKE.				
Detailed Location:	POPULATION IS MAPPED AT THE JUNCTION OF SECTIONS 15, 16, 21, AND 22. USFS POPULATION #03-85.				
Ecological:	GROWING AMONG ROCK OUTCROPS AND ARCTOSTAPHYLOS IN OPEN AREA WITH QUERCUS CHRYSOLEPIS, PINUS PONDEROSA, BRODIAEA, AND ANNUAL GRASSES. MARIPOSA VERY ROCKY SILT LOAM.				
General:	50 PLANTS OBSERVED OVER 1/2 ACRE IN 1992. STEEPNESS OF TERRAIN REDUCES LIKELIHOOD OF ANY DISTURBANCE AT THIS SITE. AREA FLAGGED TO HELP RELOCATE POPULATION.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	67	Map Index: 25391	EO Index: 6001	Element Last Seen:	1992-06-18
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1992-06-18
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-04-01
Quad Summary:	Sly Park (3812065)				
County Summary:	El Dorado				
Lat/Long:	38.69651 / -120.52320		Accuracy:	specific area	
UTM:	Zone-10 N4286010 E715398		Elevation (ft):	4200	
PLSS:	T10N, R13E, Sec. 22, SE (M)		Acres:	12.4	
Location:	1/2 AIR MI WNW OF BALTIC PEAK LOOKOUT, SOUTHEAST OF JENKINSON LAKE.				
Detailed Location:	ON STEEP ROCKY SLOPE EAST OF 10N64B. USFS POPULATION #03-86.				
Ecological:	GROWING MAINLY AROUND ROCK OUTCROPS WITH PINUS PONDEROSA, CALOEDRUS, QUERCUS KELLOGGII, PSEUDOTSUGA, CHAMAEBATIA, ARCTOSTAPHYLOS, BRODIAEA, CASTILLEJA, FRITILLARIA, STIPA, CLARKIA, AND CHLOROGALUM. MCCARTHY ASSOCIATION SOILS.				
General:	11 PLANTS SEEN OVER 2 ACRES IN 1992. PLANTS SEEM STABLE. SITE FLAGGED FOR PROTECTION.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	68	Map Index: 25393	EO Index: 5999	Element Last Seen:	1999-05-24
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1999-05-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-27
Quad Summary:	Sly Park (3812065)				
County Summary:	El Dorado				
Lat/Long:	38.69612 / -120.54346		Accuracy:	80 meters	
UTM:	Zone-10 N4285920 E713637		Elevation (ft):	3500	
PLSS:	T10N, R13E, Sec. 21, SE (M)		Acres:	0.0	
Location:	UNDER POWERLINES (CLEARED LINE ON TOPO) JUST NORTH OF CAMP CREEK, SOUTH OF JENKINSON LAKE.				
Detailed Location:	USFS POPULATION #03-75.				
Ecological:	PATCHY MOSAIC OF MIXED HARDWOOD CONIFER FOREST WITH GRASSY OPENINGS. CALOCHORTUS IN OPENING WITH ARCTOSTAPHYLOS VISCIDA ABOVE ROCK OUTCROP. DUDLEYA GROWING IN THE ROCKS. OTHER ASSOCIATES INCLUDE CHAMAEBATIA ETC. METASEDIMENTARY SOILS.				
General:	2 PLANTS SEEN LATE IN THE SEASON IN 1991; ADDITIONAL SURVEYS REQUESTED PRIOR TO TIMBER HARVEST OR POWERLINE ASSOCIATED ACTIVITIES. UNKNOWN NUMBER OF PLANTS SEEN IN 1999.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	69	Map Index: 25394	EO Index: 6002	Element Last Seen:	1991-09-12
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1991-09-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-04-01
Quad Summary:	Sly Park (3812065)				
County Summary:	El Dorado				
Lat/Long:	38.69412 / -120.55765		Accuracy:	80 meters	
UTM:	Zone-10 N4285664 E712409		Elevation (ft):	3500	
PLSS:	T10N, R13E, Sec. 29, NE (M)		Acres:	0.0	
Location:	STEEP SOUTH-FACING BANK OF CAMP CREEK ABOUT 1.2 AIR MI NORTH OF BIG BUTTE, SOUTH OF JENKINSON LAKE.				
Detailed Location:	MAPPED ABOUT 100-200 METERS SOUTH OF 10N01Y ALONG BEND IN ROAD DUE SOUTH OF FLEMING MEADOW. USFS POPULATION #03-74.				
Ecological:	MONTANE HARDWOOD WITH QUERCUS CHRYSOLEPIS AND PATCHES OF MONTANE CHAPARRAL. CALOCHORTUS GROWING IN GRASSY OPENINGS WITH BRODIAEA, ASCLEPIAS, ETC. GRAVELLY, COBBLY, THIN VOLCANIC SOILS IN THE OPENINGS (LEDMOUNT ASSOCIATION?).				
General:	1 PLANT OBSERVED LATE IN THE SEASON IN 1991. ADDITIONAL SURVEYS REQUESTED PRIOR TO TIMBER HARVEST OPERATIONS IN THE AREA.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	70	Map Index: 25395	EO Index: 6000	Element Last Seen:	1991-08-2X
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1991-08-2X
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-04-01
Quad Summary:	Sly Park (3812065)				
County Summary:	El Dorado				
Lat/Long:	38.64466 / -120.57327		Accuracy:	80 meters	
UTM:	Zone-10 N4280139 E711195		Elevation (ft):	3100	
PLSS:	T09N, R13E, Sec. 08, SW (M)		Acres:	0.0	
Location:	NW SIDE OF "BEAR LANE" ON RIDGE BETWEEN WISCONSIN GULCH AND NORTH FORK COSUMNES RIVER, 1.8 AIR MI SW OF LITTLE BUTTE.				
Detailed Location:	JUST EAST OF FOREST SERVICE BOUNDARY IN THE SW 1/4 OF THE SW 1/4 OF SECTION 8. USFS POPULATION #03-73.				
Ecological:	MONTANE HARDWOOD WITH OAKS, SCATTERED PINES, AND PATCHY OPENINGS WITH GRASSES AND MANZANITA.				
General:	2 PLANTS OBSERVED LATE IN THE SEASON IN 1991. ADDITIONAL SURVEYS ON ADJACENT USFS LAND RECOMMENDED PRIOR TO ANY TIMBER HARVEST ACTIVITY. PLANTS FLAGGED.				
Owner/Manager:	PVT				
Occurrence No.	71	Map Index: 25388	EO Index: 5997	Element Last Seen:	1992-04-24
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	1992-04-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-10-28
Quad Summary:	Camino (3812066)				
County Summary:	El Dorado				
Lat/Long:	38.69947 / -120.67572		Accuracy:	specific area	
UTM:	Zone-10 N4285991 E702124		Elevation (ft):	2800	
PLSS:	T10N, R12E, Sec. 20, SE (M)		Acres:	5.2	
Location:	RIDGETOP BETWEEN AVINSINO CORNER AND NEWTON, ABOUT 2.5 AIR MI SOUTH OF CAMINO.				
Detailed Location:	ON RIDGETOP WITHIN THE CENTER OF THE S 1/4 OF SECTION 20. USFS POPULATION #03-78. AN 1897 PURDY COLLECTION FROM "PLEASANT VALLEY" ALSO ATTRIBUTED TO THIS SITE.				
Ecological:	ASSOCIATED WITH ARCTOSTAPHYLOS VISCIDA, ADENOSTOMA, CASTILLEJA, CHLOROGALUM, RHAMNUS ILICIFOLIA, PELLAEA, DICHELOSTEMMA, GALIUM, TOXICODENDRON, MELICA, AND CALOCHORTUS MONOPHYLLUS. VALLEY SPRINGS FORMATION SOILS; ROCK IS RHYOLYTIC TUFF.				
General:	350 PLANTS OBSERVED IN 1992.				
Owner/Manager:	PVT				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	72	Map Index: 25390	EO Index: 22183	Element Last Seen:	2007-06-06
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2007-06-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-15
Quad Summary:	Kyburz (3812073)				
County Summary:	El Dorado				
Lat/Long:	38.77798 / -120.34256		Accuracy:	80 meters	
UTM:	Zone-10 N4295493 E730847		Elevation (ft):	5500	
PLSS:	T11N, R15E, Sec. 19, SW (M)		Acres:	0.0	
Location:	SOUTH SLOPES OF PEAVINE RIDGE 1 AIR MI NORTHEAST OF TWENTYNINE MILE GUARD STATION, ABOUT 2.5 AIR MI WEST OF KYBURZ.				
Detailed Location:	ABOUT 1 MILE WEST OF GRANITE SPRINGS ROAD ON 11N42. SITE IS 150 YARDS NORTH OF THE ROAD. USFS POPULATION #03-126.				
Ecological:	PONDEROSA PINE PLANTATION (PLANTED 1955). OPEN TO SHADED COBBLY ROCK AREA WITH NATIVE GRASSES. SOILS OF WACA-WINDY ANDESITIC LAHAR, COBBLY VOLCANIC SUBSTRATE, LOW SOIL DEPTH.				
General:	58 PLANTS OBSERVED OVER 1 ACRE IN 1993; SITE HAS BEEN FLAGGED BUT SIGNAGE IS STILL NEEDED. 330 PLANTS OBSERVED IN 1995, 214 PLANTS IN 2007.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	73	Map Index: 25389	EO Index: 6003	Element Last Seen:	2006-04-24
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2006-04-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-05
Quad Summary:	Kyburz (3812073)				
County Summary:	El Dorado				
Lat/Long:	38.77821 / -120.36811		Accuracy:	specific area	
UTM:	Zone-10 N4295455 E728627		Elevation (ft):	4500	
PLSS:	T11N, R14E, Sec. 24, S (M)		Acres:	51.0	
Location:	SOUTH SLOPES OF PEAVINE RIDGE 0.3-1.5 AIR MI NORTHWEST OF TWENTYNINE MILE GUARD STATION, ABOUT 4 AIR MI WEST OF KYBURZ.				
Detailed Location:	MAPPED AS 6 POLYGONS EXTENDING FROM THE CENTER OF SECTION 25, N TO THE S BOUNDARY OF SECTION 24, AND W TO SE 1/4 OF SECTION 23; MOST COLONIES ARE ACCESSIBLE FROM 11N38.1. USFS POPULATION #S 03-94, 99, 103, 109, AND 113.				
Ecological:	GROWING IN 1) MIXED CONIFER FOREST WITH PINUS PONDEROSA, P. LAMBERTIANA, QUERCUS KELLOGGII, Q. CHRYSOLEPIS, AND CALOCDRUS; 2) LIVE CANYON OAK WITH Q. CHRYSOLEPIS, CALOCDRUS, AND PINUS. CHAIX COARSE SANDY LOAM/ROCK OUTCROP COMPLEX SOILS.				
General:	257 PLANTS SEEN IN THREE COLONIES IN 1992, 4368+ PLANTS SEEN IN 1993, 1081 PLANTS IN 2005, 3873 IN 2006. THIS POPULATION WAS WITHIN THE 1992 CLEVELAND FIRE.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	74	Map Index: A0909	EO Index: 5775	Element Last Seen:	2000-06-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2000-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-01
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.85646 / -120.45191		Accuracy:	specific area	
UTM:	Zone-10 N4303934 E721105		Elevation (ft):	4600	
PLSS:	T12N, R14E, Sec. 30, W (M)		Acres:	10.0	
Location:	JUNCTION RESERVOIR (UNION VALLEY RES AFTERBAY) 0.5 AND 0.8 AIR MI NNW OF POTTS CABIN, WEST OF UNION VALLEY RESERVOIR.				
Detailed Location:	MAPPED AS 2 POLYGONS ACCORDING TO 1989 DURAN MAP AND USFS DIGITAL DATA.				
Ecological:	OPEN ROCKY AREA DOMINATED BY ARCTOSTAPHYLOS PATULA WITHIN MIXED CONIFER WOODLAND. METAMORPHIC SOILS OF LITHIC XERUMBREPTS-ROCK OUTCROP COMPLEX ON 50% SLOPE. FOUND IN ASSOCIATION WITH PHACELIA STEBBINSII, ANOTHER SENSITIVE SPECIES.				
General:	250 PLANTS OBSERVED IN NORTH POLYGON IN 1989. 1500 PLANTS OBSERVED IN SOUTH POLYGON IN 2000.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	75	Map Index: 25434	EO Index: 5774	Element Last Seen:	2015-08-07
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2015-08-07
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-28
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.82359 / -120.48697		Accuracy:	specific area	
UTM:	Zone-10 N4300201 E718162		Elevation (ft):	4750	
PLSS:	T11N, R13E, Sec. 2, SE (M)		Acres:	2.0	
Location:	RIDGE EAST OF JAY BIRD CANYON ABOUT 1.1 AIR MILES WEST OF BRYANTS SPRING, SOUTHWEST OF UNION VALLEY RESERVOIR.				
Detailed Location:	1/8 MILE SOUTHWEST OF JAY BIRD ROAD (11N60.1), ABOUT 0.7 MILES WEST OF 11N60B. MAPPED AS 2 POLYGONS ACCORDING TO 2015 ELDORADO NF DIGITAL DATA IN THE NE 1/4 SE 1/4 SECTION 2. USFS POPULATION #03-88.				
Ecological:	CHAPARRAL OPENING WITHIN MIXED CONIFER FOREST. ASSOCIATES INCLUDE PINUS PONDEROSA, QUERCUS KELLOGGII, ARCTOSTAPHYLOS, CHLORAGALUM, CHAMAEBATIA, CEANOTHUS, POA, ELYMUS, ETC. MCCARTHY-LEDMOUNT SOILS, POSSIBLE INTERFACE WITH LEDMOUNT ROCK.				
General:	NORTH POLYGON: 57 PLANTS OBSERVED IN 1992 (SITE HAS BEEN FLAGGED FOR AVOIDANCE BY LOGGING CREWS), NO PLANTS IN 2007 & 2015. SOUTH POLYGON: 10 PLANTS OBSERVED IN 2015. SITE BURNED IN 2014 KING FIRE.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	76	Map Index: 25435	EO Index: 5771	Element Last Seen:	1989-07-07
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2009-06-09
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-28
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.79997 / -120.46560		Accuracy:	80 meters	
UTM:	Zone-10 N4297630 E720090		Elevation (ft):	4800	
PLSS:	T11N, R13E, Sec. 13, NE (M)		Acres:	0.0	
Location:	ALONG FS RD 11N55.2 WEST OF HEAD OF TWENTYFIVE MILE CANYON, ABOUT 1 AIR MILE WEST OF MCCONNEL PLACE, TELEPHONE RIDGE.				
Detailed Location:	BOTH SIDES OF 11N55.2, ABOUT 0.5 MILE FROM 11N63. USFS POPULATION #03-24.				
Ecological:	ANDESITIC OPENING IN LOWER MONTANE CONIFEROUS FOREST. RIDGECREST DOMINATED BY PINUS PONDEROSA, QUERCUS KELLOGGII, CHAMAEBATIA, AND CEANOTHUS. COBBLY ANDESITIC ROCKS. LEDMOUNT-ROCK OUTCROP ASSOCIATION SOILS.				
General:	26 PLANTS OBSERVED IN 1989; POPULATION HAS BEEN FLAGGED. NO PLANTS FOUND IN 2009.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	77	Map Index: 25436	EO Index: 5769	Element Last Seen:	1993-04-28
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	1993-04-28
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-05-09
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.80117 / -120.45173		Accuracy:	80 meters	
UTM:	Zone-10 N4297797 E721291		Elevation (ft):	4700	
PLSS:	T11N, R14E, Sec. 18, NE (M)		Acres:	0.0	
Location:	ABOUT 0.35 AIR MILE NORTHWEST OF MCCONNEL PLACE, PEAVINE RIDGE.				
Detailed Location:	SOUTH OF 11N55.1 ABOUT 0.5 MILE PAST 12N30.2 (BRYANT SPRINGS ROAD). USFS POPULATION #03-112.				
Ecological:	QUERCUS CHRYSOLEPIS AND ARCTOSTAPHYLOS DOMINANT COVER. ASSOCIATED WITH ALLIUM, VIOLA, PENSTEMON, PHACELIA, CLARKIA, CLAYTONIA, DODECATHEON, AND BRODIAEA. LEDMOUNT-ROCK OUTCROP; LOOSE, DRY MODERATELY ROCKY TO GRAVELLY SOILS.				
General:	APPROXIMATELY 2000 PLANTS OBSERVED IN 1993. SITE WAS WITHIN THE 1992 CLEVELAND FIRE, POPULATION APPARENTLY UNAFFECTED.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	78	Map Index: 25442	EO Index: 5773	Element Last Seen:	2015-08-11
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2015-08-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-05

Quad Summary: Riverton (3812074), Pollock Pines (3812075)

County Summary: El Dorado

Lat/Long:	38.78698 / -120.50353	Accuracy:	specific area
UTM:	Zone-10 N4296098 E716835	Elevation (ft):	4375
PLSS:	T11N, R13E, Sec. 15, S (M)	Acres:	109.0

Location: FROM FOREST SERVICE RD 11N55.2 NEAR HEAD OF BROCKLISS CANYON EXTENDING WEST TO ROAD 11N70 , TELEPHONE RIDGE.

Detailed Location: MAPPED BY CNDDDB AS MANY POLYGONS BASED ON USFS DIGITAL DATA. USFS POPULATION #03-25 & #03-42.

Ecological: LAVA CAPS ON RIDGECREST DOMINATED BY ARCTOSTAPHYLOS AND CEANOTHUS, SURROUNDED BY LOWER MONTANE CONIFEROUS FOREST AND OAK WOODLAND. LEDMOUNT-ROCK OUTCROP ASSOCIATION SOILS. SITE BURNED IN 2014 KING FIRE.

General: POPULATION #S FOR PORTIONS OF SITE: 253 PLANTS OBSERVED IN 1989, ABOUT 1212 PLANTS IN 1990, 39 PLANTS IN 2004, 2000 PLANTS IN 2007. ABOUT 4000+ PLANTS OBSERVED THROUGH ENTIRE SITE IN 2015. PORTION OF POPULATION ON PRIVATE PROPERTY.

Owner/Manager: USFS-ELDORADO NF, PVT

Occurrence No.	79	Map Index: 25443	EO Index: 5772	Element Last Seen:	2015-07-13
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-07-13
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-05

Quad Summary: Riverton (3812074)

County Summary: El Dorado

Lat/Long:	38.78993 / -120.48407	Accuracy:	specific area
UTM:	Zone-10 N4296472 E718517	Elevation (ft):	4600
PLSS:	T11N, R13E, Sec. 14, SE (M)	Acres:	7.0

Location: ALONG 11N55.2 AND 11N70C EAST OF BROCKLISS CANYON AND NORTH OF WHITE MEADOW, TELEPHONE RIDGE.

Detailed Location: MAPPED AS 3 POLYGONS BASED ON USFS DIGITAL DATA. MIDDLE POLYGON ON BOTH SIDES OF SHARP CURVE IN ROAD 11N55.2 ABOUT 1.8 ROAD MILES WEST OF 11N63. NORTHERN POLYGON ALONG 11N70C ABOUT 0.25 MI W OF PEAVINE RD. USFS POPULATION #03-23.

Ecological: LOWER MONTANE CONIFEROUS FOREST. RIDGECREST DOMINATED BY PINUS PONDEROSA, QUERCUS KELLOGGII, CHAMAEBATIA, AND CEANOTHUS. COBBLY ANDESITIC ROCKS, SANDY AND EROSIVE WHEN DISTURBED. LEDMOUNT-ROCK OUTCROP ASSOCIATION SOILS.

General: SW POLYGON: 121 PLANTS SEEN IN 1991. MIDDLE POLYGON: 434 PLANTS IN 1989, 350 IN 2007, 40 IN 2010, <225 PLANTS IN 2015. NORTH POLYGON: 228 PLANTS IN 1991, 45 IN 2010, APPROXIMATELY 60-80 PLANTS IN 2015. SITE BURNED IN 2014 KING FIRE.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	80	Map Index: 25444	EO Index: 5770	Element Last Seen:	2001-04-27
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2007-05-03
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-06
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.7905 / -120.46996		Accuracy:	specific area	
UTM:	Zone-10 N4296569 E719741		Elevation (ft):	4500	
PLSS:	T11N, R13E, Sec. 13, S (M)		Acres:	53.0	
Location:	BOTH SIDES OF 11N55D WEST OF TWENTYFIVE MILE CANYON ABOUT 1 AIR MILE NNE OF SHORT PLACE, TELEPHONE RIDGE.				
Detailed Location:	MAPPED AS 11 POLYGONS BY CNDDDB BASED ON USFS DIGITAL DATA. THREE COLONIES ALONG 11N55D ABOUT 1/4 MILE SOUTH OF 11N55.2. USFS POPULATIONS #03-34, 03-55 & 03-76.				
Ecological:	GROWING IN CHAPARRAL OPENINGS WITHIN MIXED CONIFER FOREST. ASSOCIATED WITH ARCTOSTAPHYLOS, CHAMAEBATIA, CEANOTHUS, PINUS, QUERCUS, CALODCEDRUS, ETC. MCCARTHY-LEDMOUNT ASSOCIATION SOILS, DEEPER THAN USUAL HERE, ~6".				
General:	POPULATION NUMBERS FOR PORTIONS OF SITE. 437 PLANTS SEEN IN 1990, 126 IN 1991, 267 IN 1992, 63 IN 1993, 146 IN 2001. NO PLANTS FOUND IN NORTHERNMOST POLYGON IN 2007. SITE HAS BEEN FLAGGED FOR AVOIDANCE BY LOGGING CREWS.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	81	Map Index: 25437	EO Index: 5768	Element Last Seen:	1993-03-22
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2001-05-22
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-28
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.77967 / -120.44367		Accuracy:	specific area	
UTM:	Zone-10 N4295431 E722057		Elevation (ft):	4200	
PLSS:	T11N, R14E, Sec. 19, SE (M)		Acres:	10.0	
Location:	JUST SOUTH OF FS ROAD 11N04B, APPROXIMATELY 0.65-0.90 AIR MILE NNE OF RIVERTON.				
Detailed Location:	W POLYGON: WEST SLOPE OF RIDGE ABOUT 200 M SW OF SHARP BEND IN 11N04B; USFS POPULATION #03-62. E POLYGON: 0.3 MILE WEST OF ICE HOUSE ROAD ON 11N04A, PLANTS ARE A FEW HUNDRED FEET UP THE SLOPE; USFS POPULATION #03-106.				
Ecological:	W POLYGON: AREA IS MUCH GRASSIER THAN TYPICAL FOR C. C. AVIUS. E POLYGON: MONTANE CHAPARRAL W/IN THE PINE/OAK/CEDAR FOREST W/ QUERCUS CHRYSOLEPIS, Q. KELLOGGII, ARCTOSTAPHYLOS, ETC. ANDESITIC STONY SOILS, TYPICAL FOR THIS SPECIES.				
General:	W POLY: 50-100 PLANTS IN 1991, NONE IN 2001; AREA BURNED IN 1959 ICE HOUSE FIRE, SITE FLAGGED FOR AVOIDANCE DURING LOGGING OPERATIONS IN 1991. E POLY: 4 PLANTS OBSERVED IN 1993; SITE FLAGGED FOR PROTECTION. INCLUDES FORMER EO #82.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	83	Map Index: 25439	EO Index: 5761	Element Last Seen:	1993-05-10
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1993-05-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-05-09
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.78873 / -120.42725		Accuracy:	80 meters	
UTM:	Zone-10 N4296476 E723455		Elevation (ft):	4750	
PLSS:	T11N, R14E, Sec. 20, NE (M)		Acres:	0.0	
Location:	ABOUT 0.3 MILE WEST OF COX CANYON AND 1.2 AIR MILES NORTHEAST OF RIVERTON, PEAVINE RIDGE.				
Detailed Location:	500 METERS NE OF THE END OF 17N12B. DRIVE TO END OF ROAD, WALK 1/4 MILE NORTH TO USFS BOUNDARY LINE AND THEN PROCEED EAST. USFS POPULATION #03-114.				
Ecological:	YOUNG MIXED CONIFER/BLACK OAK TIMBER TYPE. ASSOCIATED WITH CLAYTONIA, FESTUCA, BRODIAEA, CENTAURIUM, PENSTEMON, CONVULVULUS, ACHNATHERUM, AND CHAMAEBATIA. MCCARTHY-LEMOUNT ASSOCIATION SOILS.				
General:	132 PLANTS OBSERVED IN 1993. SITE FLAGGED FOR AVOIDANCE DURING TIMBER HARVEST OPERATIONS.				
Owner/Manager:	USFS-ELDORADO NF				

Occurrence No.	84	Map Index: 25445	EO Index: 5766	Element Last Seen:	2005-06-30
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2007-05-31
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-06
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.77808 / -120.41756		Accuracy:	specific area	
UTM:	Zone-10 N4295318 E724331		Elevation (ft):	3800	
PLSS:	T11N, R14E, Sec. 28, N (M)		Acres:	31.0	
Location:	BETWEEN HIGHWAY 50 AND ICE HOUSE ROAD ALONG EITHER SIDE OF COX CANYON, ABOUT 3/4 AIR MI WEST OF WHITE HALL.				
Detailed Location:	MAPPED AS 5 POLYGONS. USFS POPULATION #S 03-107, 03-108, 03-115, AND 03-123.				
Ecological:	OAK WOODLAND/MIXED CONIFER FOREST. WITH QUERCUS CHRYSOLEPIS, Q. KELLOGGII, PINUS PONDEROSA, ARCTOSTAPHYLOS, CHAMAEBATIA, CLAYTONIA, GALIUM, SILENE, CEANOTHUS, LUPINUS, ETC. MARIPOSA-MAYMEN COMPLEX; GRANITIC, RHYOLITIC SOILS.				
General:	394 PLANTS OBSERVED IN 1993, 201 PLANTS IN 1995, 1994 PLANTS IN MAY 2003, 40 IN JULY 2003. 6 PLANTS SEEN IN THE N-MOST POLYGON IN 2005. NO PLANTS FOUND IN TWO OF THE POLYGONS IN 2007.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	85	Map Index: 25446	EO Index: 5765	Element Last Seen:	2013-07-11
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2013-07-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-15
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.78502 / -120.39677		Accuracy:	specific area	
UTM:	Zone-10 N4296140 E726116		Elevation (ft):	4400	
PLSS:	T11N, R14E, Sec. 22 (M)		Acres:	135.0	
Location:	BETWEEN HIGHWAY 50 AND ICE HOUSE ROAD, NORTH AND NORTHEAST OF WHITE HALL.				
Detailed Location:	MANY COLONIES MAPPED BY CNDDDB AS 14 POLYGONS, MOSTLY WITHIN SECTION 22. USFS POPULATION #S 03-32, 03-101, 03-102, 03-111, 03-119, AND 03-122. AREA BURNED IN THE 1992 CLEVELAND FIRE.				
Ecological:	SEVERAL HABITATS INCLUDING OAK FOREST, MIXED CONIFER FOREST, & MONTANE CHAPARRAL. VARIOUS CANOPY DOMINANTS INCLUDE QUERCUS KELLOGGII, Q. CHRYSOLEPIS, PINUS PONDEROSA, CALOCEDRUS; SHRUB DOMINANTS ARE CHAMAEBATIA, CEANOTHUS, ARCTOSTAPHYLOS.				
General:	POPULATION NUMBERS FOR PORTIONS OF SITE. 800-1000 PLANTS SEEN IN 1989, 43 PLANTS IN 1992, ABOUT 1538 IN 1993, 4 IN N POLYGON IN 1995, UNK # IN 2001, 1112 IN 2006, 12 IN N POLYGON IN 2013. SITES FLAGGED FOR PROTECTION.				
Owner/Manager:	USFS-ELDORADO NF, PVT				
Occurrence No.	86	Map Index: 25440	EO Index: 5764	Element Last Seen:	1996-06-18
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1996-06-18
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-28
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.78662 / -120.38183		Accuracy:	80 meters	
UTM:	Zone-10 N4296354 E727408		Elevation (ft):	5100	
PLSS:	T11N, R14E, Sec. 23, NW (M)		Acres:	0.0	
Location:	ABOUT 0.6 MILE EAST OF THE HEAD OF HALL CANYON AND 1.4 AIR MI NORTHEAST OF WHITE HALL.				
Detailed Location:	DIRT ROAD TO THE NORTH OF WEBER MILL ROAD (11N38.2) ABOUT 3 MILES EAST OF ICE HOUSE ROAD. PLANTS ARE ON A PLATEAU NORTH OF THE DIRT ROAD. USFS POPULATION #03-110.				
Ecological:	OLDER MIXED CONIFER FOREST WITH PINUS LAMBERTIANA, P. PONDEROSA, CALOCEDRUS, & QUERCUS KELLOGGII. ASSOCIATED WITH VIOLA, CHLOROGALUM, CLAYTONIA, GILIA, NEMOPHILA, PHACELIA, CHAMAEBATIA, LOTUS, FRITILLARIA, LUPINUS, RANUNCULUS, & CLARKIA.				
General:	164 PLANTS OBSERVED IN 1993; THE MAJORITY OF THE POPULATION IN ONE GROUP UNDER MODERATELY OPEN CANOPY. SITE FLAGGED FOR PROTECTION. 83 PLANTS OBSERVED IN 1996.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	87	Map Index: 25447	EO Index: 5763	Element Last Seen:	2004-07-29
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2004-07-29
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-15
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.76409 / -120.41509		Accuracy:	specific area	
UTM:	Zone-10 N4293771 E724589		Elevation (ft):	4600	
PLSS:	T11N, R14E, Sec. 33, NE (M)		Acres:	12.9	
Location:	NORTH OF BULL CREEK NEAR THE END OF 10N08Y, ABOUT 1 AIR MILE SOUTHWEST OF WHITE HALL.				
Detailed Location:	THREE COLONIES MAPPED AS A SINGLE POLYGON LOCATED SOUTHWEST OF "4854" RIDGE-KNOLL; COLONIES EXTEND FROM 200-800 METERS DOWNSLOPE. USFS POPULATION #03-117.				
Ecological:	ROCKY OPENINGS AND UNDER ARCTOSTAPHYLOS WITHIN CONIFER/OAK WOODLAND. ASSOCIATED WITH PINUS PONDEROSA, QUERCUS KELLOGGII, Q. CHRYSOLEPIS, CALOCEDRUS, CHAMAEBATIA, ETC. MCCARTHY-LEDMOUNT ASSOCIATION SOILS. LAVA ROCK BEDS COMMON ON SLOPE.				
General:	230+ PLANTS OBSERVED IN 1993; SITES FLAGGED FOR PROTECTION FROM LOGGING ACTIVITIES. UNKNOWN NUMBER OF PLANTS OBSERVED IN 2004.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	88	Map Index: 25441	EO Index: 5760	Element Last Seen:	2015-06-05
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-06-05
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-01
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.75779 / -120.40942		Accuracy:	specific area	
UTM:	Zone-10 N4293086 E725102		Elevation (ft):	4800	
PLSS:	T11N, R14E, Sec. 33, SE (M)		Acres:	8.0	
Location:	HEAD OF BULL CREEK ALONG 10N40 AND 10NY09, ABOUT 1.5 AIR MILES SSW OF WHITE HALL.				
Detailed Location:	MAPPED AS 5 POLYGONS BASED ON USFS DIGITAL DATA, IN THE SE 1/4 SECTION 33 AND THE SW 1/4 SECTION 34. USFS POPULATION #03-105 & #03-140.				
Ecological:	ROCKY OPENINGS & UNDER ARCTOSTAPHYLOS. ASSOCIATES: PINUS PONDEROSA, CALOCEDRUS, QUERCUS KELLOGGII, Q. CHRYSOLEPIS, CHAMAEBATIA, FRITILLARIA, RANUNCULUS, DELPHINIUM, MIMULUS, & CLAYTONIA. MCCARTHY-LEDMOUNT SOILS. BURNED IN 2002 PLUM FIRE.				
General:	POPULATION NUMBERS ARE FOR PORTIONS OF SITE. 197 PLANTS OBSERVED IN 1993, UNKNOWN NUMBER IN 2002, 239 IN 2003, 34 IN 2004, 1 IN 2011, 300-400 IN 2015. SITE FLAGGED FOR PROTECTION. INCLUDES FORMER OCCURRENCE #89.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	90	Map Index: 26061	EO Index: 5208	Element Last Seen:	1993-07-12
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1993-07-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-08-09

Quad Summary: Pollock Pines (3812075)
County Summary: El Dorado

Lat/Long:	38.84283 / -120.53501	Accuracy:	80 meters
UTM:	Zone-10 N4302223 E713933	Elevation (ft):	3760
PLSS:	T12N, R13E, Sec. 33, SW (M)	Acres:	0.0

Location: EAST OF SILVER CREEK BELOW BIG BEND ALONG 11N60.2, ABOUT 2.6 AIR MILES EAST OF SADDLE MOUNTAIN.
Detailed Location: ALONG 11N60.2 WEST OF PEAVINE RIDGE ROAD, THROUGH GATE, AND START DOWN A STEEP GRADE. PLANTS ARE ON THE UPHILL SIDE OF THE ROAD. USFS POPULATION #03-121.
Ecological: OAK WOODLAND WITH QUERCUS KELLOGGII, Q. CHRYSOLEPIS, PRUNUS EMARGINATA, RHUS DIVERSILOBA, CORNUS, ETC. MAYMEN-ROCK OUTCROP SOILS.
General: 10 PLANTS OBSERVED DURING PARTIAL SURVEY 1993, MORE COMPREHENSIVE SURVEY PREVENTED BY ABUNDANCE OF POISON OAK. SITE SHOULD BE FLAGGED AND AVOIDED.
Owner/Manager: USFS-ELDORADO NF

Occurrence No.	91	Map Index: 26062	EO Index: 5207	Element Last Seen:	1991-07-15
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1991-07-15
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-08-09

Quad Summary: Pollock Pines (3812075)
County Summary: El Dorado

Lat/Long:	38.83157 / -120.54409	Accuracy:	1/5 mile
UTM:	Zone-10 N4300951 E713178	Elevation (ft):	4200
PLSS:	T11N, R13E, Sec. 05, NE (M)	Acres:	0.0

Location: 1/2 AIR MILE WEST OF CAMINO RESERVOIR AND 1.5 AIR MILES EAST OF CAMP SEVEN, EAST OF CHAIX MOUNTAIN.
Detailed Location: EAST ON ROAD 12N54 TO 12N23Y TO SUGAR PINE TRAIL ORIGIN. ABOUT 500 METERS DOWNHILL ON THE SUGAR PINE TRAIL. PLANTS ARE ALONGSIDE AND BELOW THE TRAIL UP TO THE FIRST SWITCHBACK. USFS POPULATION #03-60.
Ecological: SITE DOMINATED BY QUERCUS KELLOGGII WITH PINUS PONDEROSA AND Q. CHRYSOLEPIS. ASSOCIATES INCLUDE TOXICODENDRON, ARCTOSTAPHYLOS, RHAMNUS, CEANOTHUS, CORYLUS, AND MONARDELLA. MAYMEN-ROCK OUTCROP ASSOCIATION SOILS WITH ABUNDANT SURFACE ROCKS.
General: 35 PLANTS OBSERVED OVER 10 ACRES IN 1991. TRAIL MAINTENANCE CREWS TO BE MADE AWARE OF THIS OCCURRENCE.
Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	92	Map Index: 26063	EO Index: 5206	Element Last Seen:	2015-06-03
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2015-07-13
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-15
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.82043 / -120.51780		Accuracy:	specific area	
UTM:	Zone-10 N4299777 E715494		Elevation (ft):	4500	
PLSS:	T11N, R13E, Sec. 03, SW (M)		Acres:	43.4	
Location:	RIDGE BETWEEN JAY BIRD CANYON AND ROUND TENT CANYON ABOUT 1.2 AIR MILES SOUTHEAST OF CAMINO RESERVOIR DAM.				
Detailed Location:	ALONG 11N56A AT THE END OF THE RIDGE. PLANTS ARE VISIBLE FROM BLADED SWATH DOWN THE RIDGE. USFS POPULATION #03-77. SITE BURNED IN 2014 KING FIRE.				
Ecological:	OPEN CHAPARRAL RIDGETOP ON ERODING LAVA CAP. ASSOCIATES INCLUDE A FEW STUNTED CALOCEDRUS AND PINUS, QUERCUS CHRYSOLEPIS, Q. KELLOGGII, AND PSEUDOTSUGA. SHRUBS INCLUDE SEVERAL ARCTOSTAPHYLOS SPP. AND GARRYA. LEDMOUNT-ROCK OUTCROP SOILS.				
General:	100+ PLANTS SEEN IN 1990, FULL POPULATION SIZE ESTIMATED TO BE 400-500; BLADED RIDGETOP TO BE RESTORED BY HAND TO OBLITERATE TRACTOR LINE. NO PLANTS IN 2010. ABOUT 365 PLANTS OBSERVED IN JUNE 2015, NO PLANTS AT N END OF SITE IN JULY 2015.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	93	Map Index: 26064	EO Index: 5205	Element Last Seen:	2015-07-20
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-07-20
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-15
Quad Summary:	Riverton (3812074), Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.81893 / -120.5026		Accuracy:	specific area	
UTM:	Zone-10 N4299647 E716819		Elevation (ft):	4650	
PLSS:	T11N, R13E, Sec. 3, SE (M)		Acres:	8.0	
Location:	RIDGE BETWEEN JAY BIRD CANYON AND ROUND TENT CANYON, ABOUT 1.7 AIR MILES ESE OF CAMINO RESERVOIR DAM.				
Detailed Location:	2 MILES WEST ON 11N56A FROM 11N56. MAPPED AS 7 POLYGONS BASED ON ELDORADO NF DIGITAL DATA, IN THE SE 1/4 SECTION 3 AND THE SW 1/4 SECTION 2. USFS POPULATION #03-45 AND #03-80.				
Ecological:	VEGETATION IN THE AREA INCLUDES QUERCUS CHRYSOLEPIS, PRUNUS SUBCORDATA, ARCTOSTAPHYLOS MEWUKKA, CLARKIA, NAVARRETIA PROLIFERA LUTEA, ALLIUM, PENSTEMON, ERIOPHYLLUM, GALIUM, CHAMAEBATIA, AND CHLOROGALUM. LEDMOUNT-ROCK SOILS.				
General:	NW-MOST POLYGON: 5 PLANTS OBSERVED IN 1992, NO PLANTS IN 2015. REMAINING POLYGONS HAD 47 PLANTS IN 1990, 12 IN 1994, NO PLANTS FOUND IN 2010, ABOUT 280-300 PLANTS IN 2015. SITE BURNED IN 2014 KING FIRE.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	94	Map Index: 72722	EO Index: 73540	Element Last Seen:	2012-07-18
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2012-07-18
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-27

Quad Summary: Caldor (3812054)

County Summary: Amador

Lat/Long:	38.52844 / -120.44199	Accuracy:	specific area
UTM:	Zone-10 N4267551 E722981	Elevation (ft):	4700
PLSS:	T08N, R14E, Sec. 21, SW (M)	Acres:	14.0

Location: JUST NORTH AND SE OF THE INTERSECTION OF HWY 88 AND OMO RANCH ROAD, NW OF COOKS STATION.

Detailed Location: MAPPED AS 2 POLYGONS. USFS POPULATION #03-04 (FORMERLY 03-04A) & 03-64 (03-51-J). THIS OCCURRENCE MAY BE A PART OF EO #5; NEED SURVEY DATA FOR PORTIONS OF OMO RANCH ROAD SEPARATING THESE EOS.

Ecological: LOWER MONTANE CONIFEROUS FOREST. COBBLY ANDESITIC OPENING AMONG PONDEROSA PINES, BLACK OAKS, CEDARS, AND SPARSE BEAR CLOVER. OTHER ASSOCIATES INCLUDE WHITE FIR, CLARKIA RHOMBOIDEA, MONARDELLA LANCEOLATA, BROMUS TECTORUM, ETC.

General: N POLYGON: 15 PLANTS IN 1984, 53 PRIMARY LEAVES IN 1986 (~12 HAVE STEMS), 185 PLANTS IN 1989, NONE IN 2005. S POLYGON: 2 PLANTS IN JULY 1991 (SURVEYED LATE IN SEASON, MORE PLANTS MAY OCCUR HERE), 7 PLANTS SEEN IN 2001. SEEN IN AREA IN 2012.

Owner/Manager: USFS-ELDORADO NF, PVT

Occurrence No.	95	Map Index: 72723	EO Index: 73548	Element Last Seen:	2002-05-13
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2002-05-13
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-27

Quad Summary: Caldor (3812054)

County Summary: El Dorado

Lat/Long:	38.61746 / -120.38276	Accuracy:	80 meters
UTM:	Zone-10 N4277577 E727864	Elevation (ft):	5280
PLSS:	T09N, R14E, Sec. 24, NW (M)	Acres:	0.0

Location: EAST SIDE OF RIDGE SEPARATING DOGTOWN CREEK AND MCKINNEY CREEK, 2 AIR MILES ENE OF CALDOR RANGER STATION.

Detailed Location: UNSURE IF THIS IS A CONTINUOUS POPULATION WITH EO #25 OR IF THIS IS A DISTINCT OCCURRENCE; 1990 GIBSON & NIELSEN MAP IS UNCLEAR.

Ecological: OPENING IN WESTSIDE PONDEROSA PINE FOREST. DOMINANTS INCLUDE PSEUDOTSUGA, CHAMAEBATIA, CALOEDRUS, CLARKIA, AND ERIOPHYLLUM. ASSOCIATED WITH BRODIAEA, CALOCHORTUS LEICHTLINII, AND VIOLA. MCCARTHY GRAVELLY SANDY LOAMS.

General: 129 PLANTS SEEN IN 1990 BETWEEN THIS AND EO #25; SITE HAS BEEN FLAGGED TO REDUCE LOGGING IMPACTS. 9 PLANTS OBSERVED IN 2002.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	98	Map Index: 72726	EO Index: 73554	Element Last Seen:	2005-06-24
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2005-06-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-11-05

Quad Summary: Devils Nose (3812044), Caldor (3812054)

County Summary: Amador

Lat/Long:	38.49962 / -120.47132	Accuracy:	specific area
UTM:	Zone-10 N4264281 E720512	Elevation (ft):	4300
PLSS:	T08N, R14E, Sec. 31, SE (M)	Acres:	9.0

Location: ON A SLOPE ABOVE LONG JOHN CREEK, 1.25 AIR MILES SSE OF DEW DROP CDF STATION ON SR-88.

Detailed Location: THIS POPULATION IS SPI POPULATION #062405 E.

Ecological: MIXED CONIFER FOREST. PONDEROSA PINE PLANTATION WITH BLACK OAK, INCENSE CEDAR, CEANOTHUS INTEGERRIMUS, ARCTOSTAPHYLOS PATULA, DICHELOSTEMMA, ERIOPHYLLUM; METASEDIMENTARY SOILS, SW ASPECT.

General: 200 PLANTS SEEN IN 2005; PLANTS ARE SCATTERED THROUGHOUT THE PLANTATION. SOME AREAS WERE AVOIDED BY OPERATIONS, BUT MANY PLANTS APPEAR TO HAVE TOLERATED TREE PLANTING AND MAINTENANCE WORK QUITE WELL ACCORDING TO ENGSTROM ET AL. 2005.

Owner/Manager: PVT

Occurrence No.	99	Map Index: 72727	EO Index: 73556	Element Last Seen:	2007-07-16
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2007-07-16
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-11-05

Quad Summary: Caldor (3812054)

County Summary: El Dorado

Lat/Long:	38.53338 / -120.48638	Accuracy:	80 meters
UTM:	Zone-10 N4267992 E719096	Elevation (ft):	4500
PLSS:	T08N, R13E, Sec. 24, NE (M)	Acres:	0.0

Location: BETWEEN SCOTT CREEK AND OREGON GULCH, JUST NORTH OF FARNHAM RIDGE.

Detailed Location:

Ecological: FOUND ALONG RIDGETOP IN A LOWER ELEVATION MIXED CONIFER FOREST WITH PREDOMINATELY CHAMEABATIA FOLIOLOSA, PENSTEMON SP., QUERCUS KELLOGGII, PINUS PONDEROSA, BROMUS TECTORUM.

General: 6 PLANTS SEEN IN 2007.

Owner/Manager: PVT-SIERRA PACIFIC



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	100	Map Index: 72728	EO Index: 73557	Element Last Seen:	2005-06-24
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2005-06-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-11-05
Quad Summary:	Caldor (3812054)				
County Summary:	Amador				
Lat/Long:	38.51516 / -120.43315		Accuracy:	80 meters	
UTM:	Zone-10 N4266099 E723793		Elevation (ft):	4825	
PLSS:	T08N, R14E, Sec. 28, SE (M)		Acres:	0.0	
Location:	0.75 AIR MILE SOUTH OF COOKS STATION ON SR-88, JUST EAST OF COOKS STATION RIDGE.				
Detailed Location:	ADJACENT TO A LOGGING ROAD. THIS IS SPI POPULATION #062405 D.				
Ecological:	MIXED CONIFER FOREST. PONDEROSA PINE, INCENSE CEDAR, BLACK OAK, CLARKIA RHOMBOIDEA, CHAMAEBATIA FOLIOLOSA, SENECIO; S ASPECT; MEHRTEN SOILS.				
General:	50 PLANTS OBSERVED IN 2005. HARVEST AND REPLANTING HAS OCCURRED IN THE AREA; HOWEVER, PLANT LOCATIONS WERE NOT IMPACTED.				
Owner/Manager:	PVT				
Occurrence No.	101	Map Index: 72729	EO Index: 73559	Element Last Seen:	1993-08-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1993-08-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-10-29
Quad Summary:	Omo Ranch (3812055)				
County Summary:	El Dorado				
Lat/Long:	38.56933 / -120.54178		Accuracy:	80 meters	
UTM:	Zone-10 N4271852 E714160		Elevation (ft):	3400	
PLSS:	T08N, R13E, Sec. 04, SE (M)		Acres:	0.0	
Location:	JUST SOUTH OF WASHINGTON MINE ON THE EAST SIDE OF SOPIAGO CREEK, SE OF OMO RANCH.				
Detailed Location:	MAPPED ACCORDING TO A 1998 MAP.				
Ecological:	ROCKY XERIC OPENINGS IN YELLOW PINE FOREST. ASSOCIATED SPECIES INCLUDE PINUS PONDEROSA, CALOCEDRUS DECURRENS, CEANOTHUS INTEGERRIMUS, ARCTOSTAPHYLOS SP., CHAMAEBATIA FOLIOLOSA, & TOXICODENDRON DIVERSILOBUM.				
General:	UNKNOWN NUMBER OF PLANTS SEEN IN 1993.				
Owner/Manager:	UNKNOWN				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	102	Map Index: 72730	EO Index: 73560	Element Last Seen:	1993-08-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1993-08-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-10-29
Quad Summary:	Omo Ranch (3812055)				
County Summary:	El Dorado				
Lat/Long:	38.53020 / -120.54219		Accuracy:	80 meters	
UTM:	Zone-10 N4267508 E714241		Elevation (ft):	3400	
PLSS:	T08N, R13E, Sec. 21, SE (M)		Acres:	0.0	
Location:	JUST SOUTH OF SCOTT CREEK AT THE NE END OF FARNHAM RIDGE.				
Detailed Location:	MAPPED ACCORDING TO A 1998 MAP.				
Ecological:	ROCKY XERIC OPENINGS IN YELLOW PINE FOREST. ASSOCIATED SPECIES INCLUDE PINUS PONDEROSA, CALOCEDRUS DECURRENS, CEANOTHUS INTEGERRIMUS, ARCTOSTAPHYLOS SP., CHAMAEBATIA FOLIOLOSA, & TOXICODENDRON DIVERSILOBUM.				
General:	UNKNOWN NUMBER OF PLANTS SEEN IN 1993.				
Owner/Manager:	UNKNOWN				
Occurrence No.	103	Map Index: 72731	EO Index: 73561	Element Last Seen:	1993-08-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1993-08-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-10-29
Quad Summary:	Omo Ranch (3812055)				
County Summary:	El Dorado				
Lat/Long:	38.53494 / -120.53451		Accuracy:	80 meters	
UTM:	Zone-10 N4268052 E714895		Elevation (ft):	3400	
PLSS:	T08N, R13E, Sec. 22, NW (M)		Acres:	0.0	
Location:	JUST N OF SCOTT CRK APPROX 1.2 AIR MI W OF THE CONFLUENCE OF SCOTT CREEK & OREGON GULCH, S OF THE W END OF BARNEY RIDGE.				
Detailed Location:	MAPPED ACCORDING TO A 1998 MAP.				
Ecological:	ROCKY XERIC OPENINGS IN YELLOW PINE FOREST. ASSOCIATED SPECIES INCLUDE PINUS PONDEROSA, CALOCEDRUS DECURRENS, CEANOTHUS INTEGERRIMUS, ARCTOSTAPHYLOS SP., CHAMAEBATIA FOLIOLOSA, & TOXICODENDRON DIVERSILOBUM.				
General:	UNKNOWN NUMBER OF PLANTS SEEN IN 1993.				
Owner/Manager:	UNKNOWN				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	104	Map Index: 72732	EO Index: 73562	Element Last Seen:	2003-07-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2003-07-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-11-05
Quad Summary:	Old Iron Mountain (3812064)				
County Summary:	El Dorado				
Lat/Long:	38.71793 / -120.38973		Accuracy:	80 meters	
UTM:	Zone-10 N4288711 E726939		Elevation (ft):	5138	
PLSS:	T10N, R14E, Sec. 14, SE (M)		Acres:	0.0	
Location:	KNOLL DIVIDING PLUM CREEK FROM THE WEST FORK, APPROXIMATELY 1 AIR MILE SE OF DARLINGTON.				
Detailed Location:	MAPPED ACCORDING TO 2003 GPS COORDINATES FROM STAPLETON. LOCATED ON OLD TRACTOR TRAILS ON A RIDGE TOP. THIS IS SPI POPULATION #03020.				
Ecological:	OPEN PINUS PONDEROSA-CHAMAEBATIA FOLIOLOSA FOREST. DOMINANT HARDWOOD TREES ARE SHRUBLIKE CA BLACK OAK, LIVE OAK, & INCENSE CEDAR. UNDERSTORY SPP INCL MOUNTAIN MISERY, DEERBRUSH, MANZANITA, COMMON SOAPROOT. SOILS ARE COBBLY SILT LOAM.				
General:	UNKNOWN NUMBER OF PLANTS SEEN IN 2002. 100 PLANTS SEEN IN 2003. PAST MANAGEMENT HAS BEEN THROUGH SELECTIVE CUTTING.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	105	Map Index: 72733	EO Index: 73563	Element Last Seen:	2005-06-24
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2005-06-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-11-05
Quad Summary:	Sly Park (3812065)				
County Summary:	El Dorado				
Lat/Long:	38.72476 / -120.52740		Accuracy:	80 meters	
UTM:	Zone-10 N4289137 E714948		Elevation (ft):	3790	
PLSS:	T10N, R13E, Sec. 15, NW (M)		Acres:	0.0	
Location:	BTWN MORMON EMIGRANT TRAIL & CAMP CRK ~0.4 AIR MI NW OF THE CONFLUENCE OF CAMP CRK & BALTIC CRK, E OF JENKINSON LAKE.				
Detailed Location:	THIS IS SPI POPULATION #062405 A.				
Ecological:	OPENINGS IN MIXED CONIFER FOREST, SOILS ARE MORE ROCKY AT SURFACE. PONDEROSA PINE, BLACK OAK, INCENSE CEDAR, SUGAR PINE, ARCTOSTAPHYLOS, CHAMAEBATIA, ASPIDOTIS, MONARDELLA, CHLOROGALUM, ERIOPHYLLUM. S ASPECT. NAVARRETIA PROLIFERA IN AREA.				
General:	200 PLANTS SEEN IN 2005. AREA IS SCHEDULED FOR HARVEST; PROTECTION MEASURES ARE TO BE INCORPORATED INTO HARVEST PLAN.				
Owner/Manager:	PVT				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	106	Map Index: 72734	EO Index: 73564	Element Last Seen:	2005-07-11
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2005-07-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-10-29
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.75903 / -120.39543		Accuracy:	specific area	
UTM:	Zone-10 N4293259 E726313		Elevation (ft):	4950	
PLSS:	T11N, R14E, Sec. 34, NE (M)		Acres:	10.0	
Location:	ON BOTH SIDES OF MILL CREEK APPROXIMATELY 1 MILE SOUTH OF ITS CONFLUENCE WITH THE AMERICAN RIVER, SSE OF WHITE HALL.				
Detailed Location:	WEST POLYGON MAPPED ACCORDING TO A 2003 GPS COORDINATES FROM STAPLETON (SPI POPULATION #03019). EAST POLYGON MAPPED ACCORDING TO 2005 GPS COORDINATES FROM LITTLE (SPI POPULATION #CAM07115).				
Ecological:	FOUND ON A ROCKY AREA ASSOCIATED WITH THE MEHRTEN FORMATION AND GRANITIC CHAIX SOILS. THE FOREST CANOPY IS OPEN, CONSISTING OF ISOLATED INDIVIDUAL CA BLACK OAK, LIVE OAK, AND INCENSE CEDAR. THE UNDERSTORY CONTAINS MANZANITA, DEERBRUSH, ETC.				
General:	WEST POLYGON: 25 PLANTS OBSERVED IN 2003. EAST POLYGON: 50 PLANTS OBSERVED IN 2005.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	107	Map Index: 72735	EO Index: 73565	Element Last Seen:	2003-06-19
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2003-06-19
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-10-29
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.78374 / -120.60062		Accuracy:	80 meters	
UTM:	Zone-10 N4295512 E708410		Elevation (ft):	3700	
PLSS:	T11N, R12E, Sec. 23, SE (M)		Acres:	0.0	
Location:	APPROXIMATELY 0.44 AIR MILE NNW OF THE INTERSECTION OF FOREBAY RD/FOREST ROUTE 19 & KODIAK TRAIL, NW OF POLLOCK PINES.				
Detailed Location:	PLANTS ARE ON THE EDGE OF A SERVICE ROAD FOR THE PIPELINE.				
Ecological:	UPPER SLOPES OF THE SOUTH FORK OF THE AMERICAN RIVER HANGING OVER A SMALL LANDSLIDE AREA. ASSOCIATES INCLUDE ACER MACROPHYLLUM, PHILADELPHUS LEWISII, DICENTRA FORMOSA, ERIOPHYLLUM LANATUM, ACHILLEA MILLEFOLIUM, QUERCUS CHRYSOLEPIS, ETC.				
General:	14 PLANTS SEEN IN 2003.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	108	Map Index: 94484	EO Index: 95597	Element Last Seen:	2015-08-06
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2015-08-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-01

Quad Summary: Caldor (3812054)

County Summary: El Dorado

Lat/Long:	38.58481 / -120.43166	Accuracy:	specific area
UTM:	Zone-10 N4273832 E723708	Elevation (ft):	4750
PLSS:	T09N, R14E, Sec. 33, SE (M)	Acres:	3.0

Location: RIDGE EAST OF ELKINS FLAT, APPROXIMATELY 0.4 AIR MILE EAST OF CONFLUENCE OF MIDDLE DRY CREEK AND SIMPSON GULCH.

Detailed Location: MAPPED AS 2 POLYGONS IN THE WEST 1/2 OF THE SE 1/4 OF SECTION 33. WEST POLYGON BASED ON 2015 ELDORADO NF DIGITAL DATA, EAST POLYGON BASED ON 2014 NRIS DATA. SENSITIVE AREA TAG IS ON THE BACK SIDE OF A LARGE PONDEROSA PINE NEXT TO OHV TRAIL.

Ecological: SUNNY OPENING IN PINE, OAK, AND CEDAR FOREST. MILD SW ASPECT. UNDERLYING SOILS ARE MCCARTHY-LEDMOUNT SERIES. AREA HAS BEEN BURNED, THOUGH NOT RECENTLY. GROWING IN MODERATELY DEEP CHAMAEBATIA FOLIOLOSA. BROMUS TECTORUM ALSO PRESENT.

General: EAST POLYGON: 9 PLANTS OBSERVED IN 2000, 7 PLANTS IN 2004. WEST POLYGON: 27 PLANTS OBSERVED IN 2010, 2+ PLANTS SEEN IN 2015 (FULL PLANT COUNT WAS NOT CONDUCTED AS SURVEYS WERE LATE IN SEASON). USFS POPULATION #134.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	109	Map Index: 94485	EO Index: 95598	Element Last Seen:	2010-06-25
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2010-06-25
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2014-11-17

Quad Summary: Old Iron Mountain (3812064)

County Summary: El Dorado

Lat/Long:	38.74058 / -120.47246	Accuracy:	80 meters
UTM:	Zone-10 N4291022 E719676	Elevation (ft):	4600
PLSS:	T10N, R14E, Sec. 07, NW (M)	Acres:	0.0

Location: APPROXIMATELY 0.6 AIR MILE NORTH OF THE CONFLUENCE OF NORTH SLY PARK CREEK AND SLY PARK CREEK, WEST OF IRON MOUNTAIN.

Detailed Location: MAPPED IN THE NW 1/4 OF THE NW 1/4 OF SECTION 7 ACCORDING TO 2010 WAVERLY COORDINATES.

Ecological: SOUTH FACING RIDGE TOP. LAVA CAP/MARGINS OF LAVA CAP. OPEN FOREST.

General: 50 PLANTS OBSERVED IN 2010.

Owner/Manager: PVT-SIERRA PACIFIC



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	110	Map Index: 94486	EO Index: 95599	Element Last Seen:	2011-07-07
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2011-07-07
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2014-11-17

Quad Summary: Old Iron Mountain (3812064)
County Summary: El Dorado

Lat/Long:	38.74030 / -120.44146	Accuracy:	80 meters
UTM:	Zone-10 N4291066 E722372	Elevation (ft):	4820
PLSS:	T10N, R14E, Sec. 08, NE (M)	Acres:	0.0

Location: APPROXIMATELY 2.04 AIR MILES NE OF WHERE PARK CREEK RD CROSSES PARK CREEK, IRON MOUNTAIN.
Detailed Location: JUST SOUTHWEST OF GIRARD MILL SITE. MAPPED IN THE NE 1/4 OF THE NE 1/4 OF SECTION 8 ACCORDING TO 2011 TIESEN COORDINATES.
Ecological: OBSERVED WHILE DRIVING DOWN A RIDGE TOP ROAD. SOILS MAPPED AS CROZIER-COHASSET LOAMS, 5-30 % SLOPES.
General: 2 PLANTS OBSERVED DURING A LIMITED SURVEY IN 2011.
Owner/Manager: PVT-SIERRA PACIFIC

Occurrence No.	111	Map Index: 94487	EO Index: 95600	Element Last Seen:	2011-07-07
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-07-07
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2014-11-17

Quad Summary: Old Iron Mountain (3812064)
County Summary: El Dorado

Lat/Long:	38.73102 / -120.45293	Accuracy:	80 meters
UTM:	Zone-10 N4290008 E721403	Elevation (ft):	4600
PLSS:	T10N, R14E, Sec. 08, SW (M)	Acres:	0.0

Location: APPROXIMATELY 1.35 AIR MILES EAST OF WHERE PARK CREEK ROAD CROSSES PARK CREEK, SOUTH OF NORTH PARK CREEK.
Detailed Location: MAPPED NEAR THE CENTER OF THE SW 1/4 OF SECTION 8 ACCORDING TO 2011 TIESEN COORDINATES.
Ecological: CLARKIA VIRGATA ALSO INTERMIXED. MANZANITA, BEAR CLOVER, VARIOUS ANNUAL GRASSES AND DEER BRUSH ARE PRESENT AS WELL AS DOUGLAS-FIR, INCENSE CEDAR, BLACK OAK, AND PONDEROSA PINE. RIDGE WITH MOST PLANTS ON THE SW-FACING PART OF RIDGE.
General: 100+ PLANTS OBSERVED IN 2011.
Owner/Manager: PVT-SIERRA PACIFIC



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	112	Map Index: A0489	EO Index: 102050	Element Last Seen:	2015-10-27
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-10-27
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-14

Quad Summary: Caldor (3812054)

County Summary: El Dorado

Lat/Long:	38.5904 / -120.42133	Accuracy:	specific area
UTM:	Zone-10 N4274478 E724590	Elevation (ft):	4800
PLSS:	T09N, R14E, Sec. 34, NW (M)	Acres:	1.0

Location: RIDGE NORTH OF SIMPSON GULCH; 0.5 AIR MILE SOUTH OF CALDOR LOGGING RD AND ABOUT 1 AIR MILE EAST OF ELKINS FLAT.

Detailed Location: SOUTH SIDE OF TRAIL 14E28. MAPPED FROM 2015 ELDORADO NF DIGITAL DATA IN THE SW 1/4 NW 1/4 SECTION 34.

Ecological: OPEN LAVA CAP ALONG RIDGE. GROWING WITHIN 5 FEET OF OHV TRAIL.

General: 1 PLANT OBSERVED IN 2015. INCIDENTAL OBSERVATION, ADDITIONAL SURVEYS NEEDED. ELDORADO NF POPULATION #148.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	113	Map Index: A0491	EO Index: 102052	Element Last Seen:	2015-04-23
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-04-23
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-05

Quad Summary: Riverton (3812074)

County Summary: El Dorado

Lat/Long:	38.75794 / -120.41968	Accuracy:	specific area
UTM:	Zone-10 N4293077 E724210	Elevation (ft):	4450
PLSS:	T11N, R14E, Sec. 33, W (M)	Acres:	2.0

Location: RIDGE BETWEEN BULL CREEK AND PLUM CREEK, ABOUT 1.5 AIR MI SW OF WHITE HALL AND 0.9 MILE NORTH OF PLUM CREEK MILL SITE.

Detailed Location: MAPPED AS 2 POLYGONS IN THE WEST HALF OF SECTION 33. EAST POLYGON BASED ON USFS DIGITAL DATA SUBMITTED IN 2014, WEST POLYGON BASED ON 2015 DIGITAL DATA SUBMITTED BY ELDORADO NF.

Ecological: LAVA CAP ALONG DECOMMISSIONED ROAD, WITH CHEAT GRASS. 20% NORTH-FACING SLOPE, IN FULL SUN.

General: EAST POLYGON: 60 PLANTS OBSERVED IN 2000, 56 PLANTS IN 2001, 7 IN 2004. WEST POLYGON: ABOUT 25 PLANTS OBSERVED IN 2015, BUT COMPLETE COUNT WAS NOT MADE BECAUSE IT WAS EARLY IN THE SEASON. ELDORADO NF POPULATION #136.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	114	Map Index: A0492	EO Index: 102053	Element Last Seen:	2015-06-08
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-13
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.77698 / -120.48819		Accuracy:	specific area	
UTM:	Zone-10 N4295025 E718198		Elevation (ft):	3720	
PLSS:	T11N, R13E, Sec. 23, E (M)		Acres:	1.0	
Location:	ABOUT 0.4 AIR MILE SOUTH OF WHITE MEADOW AND 0.75 AIR MILE NORTH OF HWY 50, EAST OF BROCKLISS CANYON.				
Detailed Location:	MAPPED FROM 2015 ELDORADO NF DIGITAL DATA IN THE EAST HALF OF SECTION 23.				
Ecological:	GROWING AMONG CHLOROGALUM POMERIDIANUM IN CLEARING IN BURNED PINE FOREST. SITE BURNED IN 2014 KING FIRE.				
General:	ABOUT 100 PLANTS OBSERVED IN 2015. ELDORADO NF POPULATION #144.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	115	Map Index: A0496	EO Index: 102056	Element Last Seen:	2015-06-01
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-06-01
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-13
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.80395 / -120.50049		Accuracy:	specific area	
UTM:	Zone-10 N4297989 E717048		Elevation (ft):	4680	
PLSS:	T11N, R13E, Sec. 11, SW (M)		Acres:	3.0	
Location:	ABOUT 2.2 ROAD MILES WEST OF PEAVINE RIDGE RD ALONG FOREST RD 11N63, ABOVE NORTH FORK SOLDIER CREEK.				
Detailed Location:	ABOUT 0.25 MILE SOUTH, AND 100-1000 FT SOUTH, OF ROAD 11N63. MAPPED AS 2 POLYGONS FROM 2015 ELDORADO NF DIGITAL DATA IN THE WEST HALF OF THE SW 1/4 SECTION 11.				
Ecological:	SMALL PATCHES AT EDGE OF LARGE CLEARING WITH DENSE POPULATION OF CHLOROGALUM, WITHIN BURNED MANZANITA AND PINE FOREST. SITE BURNED IN 2014 KING FIRE.				
General:	42 PLANTS OBSERVED IN NORTH POLYGON AND 40 IN SOUTH POLYGON IN 2015. ELDORADO NF POPULATION #145.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	116	Map Index: A0497	EO Index: 102058	Element Last Seen:	2015-07-08
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-07-14
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-05
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.81363 / -120.48589		Accuracy:	specific area	
UTM:	Zone-10 N4299099 E718286		Elevation (ft):	4700	
PLSS:	T11N, R13E, Sec. 11, NE (M)		Acres:	18.0	
Location:	NORTH OF ROUND TENT CANYON RD, ABOUT 1.3 ROAD MILES WEST OF JUNCTION WITH PEAVINE RIDGE RD.				
Detailed Location:	WALK ABOUT 1/4 MILE UPHILL FROM ROAD TO NATURAL OPENING ON RIDGETOP. MAPPED AS 6 POLYGONS FROM NRIS DIGITAL DATA AND 2015 ELDORADO NF DIGITAL DATA IN THE NE 1/4 SECTION 11.				
Ecological:	LAVA CAP WITHIN MIXED CONIFER-OAK WOODLAND AND CHAPARRAL, ALONG SEASONAL DRAINAGE AND SOUTH-FACING HILL. GROWING WITH THE RARE NAVARRETIA PROLIFERA SSP. LUTEA. SITE BURNED IN 2014 KING FIRE.				
General:	255 PLANTS OBSERVED IN 1990. NO PLANTS FOUND IN SOUTHERN TWO POLYGONS IN 2007. 318 PLANTS OBSERVED IN 2015. ELDORADO NF POPULATION #36 & #37.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	117	Map Index: A0516	EO Index: 102078	Element Last Seen:	2015-06-11
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2015-06-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-14
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.85434 / -120.46082		Accuracy:	80 meters	
UTM:	Zone-10 N4303677 E720337		Elevation (ft):	4800	
PLSS:	T12N, R13E, Sec. 25, SE (M)		Acres:	5.0	
Location:	ABOUT 0.25 MILE NW OF DAM AT JUNCTION RESERVOIR.				
Detailed Location:	MAPPED BY CNDDDB BASED ON 2015 SPI COORDINATES, ON SECTION LINE BETWEEN SE 1/4 OF SECTION 25 AND SW 1/4 OF SECTION 30. THE RARE PHACELIA STEBBINSII ALSO OCCURS HERE.				
Ecological:	OPEN ROCKY SLOPE BELOW MIXED CONIFER FOREST ABOVE SILVER CREEK. ASSOCIATES INCLUDE QUERCUS CHRYSOLEPIS, GARRYA FREMONTII, CHEILANTHES GRACILIMA, STREPTANTHUS TORTUOSUS, COLLOMIA GRANDIFLORA, ARCTOSTAPHYLOS VISCIDA, ETC. 80% SLOPE, S ASPECT.				
General:	1000+ PLANTS OBSERVED AT THIS SITE, THOUGH FULL EXTENT OF OCCURRENCE WAS NOT SURVEYED. SITE BURNED IN 2014 KING FIRE. HUGE NUTRIENT FLUSH AND SPRING THUNDERSTORMS RESULTED IN VERY HANDSOME PLANTS THIS YEAR (2015).				
Owner/Manager:	PVT-SIERRA PACIFIC, USFS				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	118	Map Index: A0519	EO Index: 102081	Element Last Seen:	2015-05-29
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-05-29
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-05

Quad Summary: Pollock Pines (3812075)

County Summary: El Dorado

Lat/Long:	38.78033 / -120.52008	Accuracy:	specific area
UTM:	Zone-10 N4295320 E715417	Elevation (ft):	4300
PLSS:	T11N, R13E, Sec. 22, NW (M)	Acres:	3.0

Location: ABOUT 1.4 AIR MILES NORTH OF HWY 50 AND 0.25 MILE NW OF VAN VLECK.

Detailed Location: MAPPED BY CNDDDB BASED ON 2015 ELDORADO NF DIGITAL DATA, IN THE NW 1/4 NW 1/4 SECTION 22. USFS POPULATION #46.

Ecological: EVENLY DISTRIBUTED ALONG SOUTH-FACING SLOPE BETWEEN TWO LAVA CAPS. 20% SLOPE, SW ASPECT. SITE BURNED IN 2014 KING FIRE.

General: 100 PLANTS OBSERVED IN 1990, 61 PLANTS IN 2004, 6 PLANTS IN 2009. HUNDREDS OF PLANTS OBSERVED IN 2015.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	119	Map Index: A0533	EO Index: 102092	Element Last Seen:	2015-06-01
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-06-17
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-06

Quad Summary: Pollock Pines (3812075)

County Summary: El Dorado

Lat/Long:	38.79248 / -120.59112	Accuracy:	specific area
UTM:	Zone-10 N4296504 E709210	Elevation (ft):	2800
PLSS:	T11N, R12E, Sec. 24, NW (M)	Acres:	2.0

Location: ABOUT 0.2 AND 0.4 AIR MILE NNW OF THE MOUTH OF SILVER CREEK, ON RIDGE ABOVE THE SOUTH FORK AMERICAN RIVER.

Detailed Location: OFF OF SMUD USE TRAIL. MAPPED AS 2 POLYGONS BY CNDDDB BASED ON 2015 ELDORADO NF DIGITAL DATA, IN THE SW 1/4 SECTION 13 AND THE NW 1/4 SECTION 24. USFS POPULATION #142.

Ecological: ROCKY, STEEP SOUTH-FACING SLOPE. MAYMEN ROCK OUTCROPS.

General: NORTH POLYGON: 10 PLANTS OBSERVED IN 2012, NO PLANTS OBSERVED ON 6/17/2015. SOUTH POLYGON: HUNDREDS OF PLANTS OBSERVED ON 6/1/2015.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	120	Map Index: A0539	EO Index: 102100	Element Last Seen:	2016-06-08
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-06
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.83372 / -120.51899		Accuracy:	specific area	
UTM:	Zone-10 N4301250 E715352		Elevation (ft):	4550	
PLSS:	T11N, R13E, Sec. 3, NW (M)		Acres:	3.0	
Location:	ABOUT 0.7 AIR MILE DUE EAST OF MOUTH OF JAY BIRD CANYON, ALONG FOREST ROAD 11N60 (JAY SPRINGS RD).				
Detailed Location:	ABOUT 100 FEET FROM ROAD, UNDER POWER LINES WITHIN SMUD TRANSMISSION CORRIDOR. MAPPED BY CNDDDB BASED ON 2015 ELDORADO NF DIGITAL DATA, IN THE NW 1/4 NW 1/4 SECTION 3.				
Ecological:	WITHIN LAVA CAP IN BURNED MIXED CONIFER FOREST AND MANZANITA. ASSOCIATES INCLUDE THE RARE CHLOROGALUM GRANDIFLORUM, PHACELIA STEBBINSII, AND STREPTANTHUS LONGISILIQUEUS. LEDMOUNT-ROCK OUTCROP COMPLEX. SITE BURNED IN 2014 KING FIRE.				
General:	60 PLANTS SEEN IN 2000. ABOUT 100 PLANTS OBSERVED IN 2015. UNKNOWN NUMBER SEEN IN 2016. ELDORADO NF POPULATION #138-01.				
Owner/Manager:	USFS-ELDORADO NF, SMUD				
Occurrence No.	121	Map Index: A0571	EO Index: 102121	Element Last Seen:	2015-06-11
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2015-06-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-15
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.85106 / -120.50873		Accuracy:	80 meters	
UTM:	Zone-10 N4303199 E716189		Elevation (ft):	4740	
PLSS:	T12N, R13E, Sec. 27, SW (M)		Acres:	5.0	
Location:	2.75 AIR MILES WEST OF DAM AT JUNCTION RESERVOIR ABOVE SILVER CREEK, SOUTH OF FOREST ROAD 12N20.				
Detailed Location:	MAPPED BY CNDDDB IN THE SE 1/4 SW 1/4 SECTION 27, BASED ON 2015 ENGSTROM COORDINATES.				
Ecological:	OPENING IN MIXED CONIFER FOREST ABOVE CREEK, GRANITIC SOILS, S TO SE ASPECT. ASSOCIATES INCLUDE PINUS PONDEROSA, P. LAMBERTIANA, CALOCEDRUS, CHAMAEBATIA AND THE RARE CHLOROGALUM GRANDIFLORUM. SITE BURNED IN 2014 KING FIRE.				
General:	100+ PLANTS OBSERVED IN 2015.				
Owner/Manager:	PVT-SIERRA PACIFIC				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	122	Map Index: A0572	EO Index: 102123	Element Last Seen:	2015-06-25
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2015-06-25
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-15
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.8555 / -120.52362		Accuracy:	specific area	
UTM:	Zone-10 N4303656 E714884		Elevation (ft):	4295	
PLSS:	T12N, R13E, Sec. 28, SE (M)		Acres:	4.0	
Location:	NORTH OF SILVER CREEK AND JUST EAST OF DAVIS CREEK, 2.8 AIR MILES SE OF LOOKOUT MOUNTAIN.				
Detailed Location:	MAPPED BY CNDDDB IN THE NW 1/4 SE 1/4 SECTION 28, BASED ON 2015 TIESEN COORDINATES.				
Ecological:	VERY STEEP AND ROCKY SITE IN MIXED CONIFER FOREST, SSW ASPECT. GROWING WITH THICK CHLOROGALUM POMERIDIANUM AND SOME CHLOROGALUM GRANDIFLORUM, AS WELL AS GARRYA FREMONTII AND ARCTOSTAPHYLOS. SITE BURNED IN 2014 KING FIRE.				
General:	3,000-5,000 PLANTS ESTIMATED IN 2015, THOUGH WHOLE OCCURRENCE WAS NOT SURVEYED AND PLANTS MAY EXTEND OUTSIDE OF MAPPED AREA.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	123	Map Index: A0574	EO Index: 102127	Element Last Seen:	2015-06-30
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2015-06-30
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-15
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.85933 / -120.53324		Accuracy:	specific area	
UTM:	Zone-10 N4304058 E714038		Elevation (ft):	4150	
PLSS:	T12N, R13E, Sec. 28, W (M)		Acres:	7.0	
Location:	JUST EAST OF ONION CREEK AND NORTH OF SILVER CREEK, ABOUT 2.2 AIR MILES SE OF LOOKOUT MOUNTAIN.				
Detailed Location:	MAPPED BY CNDDDB AS 3 POLYGONS IN THE SE 1/4 OF THE NE 1/4 OF SECTION 29 AND THE WEST HALF OF SECTION 28, BASED ON 2015 TIESEN COORDINATES.				
Ecological:	ROCKY OPENINGS WITHIN BURNED MIXED CONIFER FOREST WITH CHLOROGALUM POMERIDIANUM, AS WELL AS ARCTOSTAPHYLOS, MIMULUS SP, CHAMAEBATIA, ETC. STEEP SLOPES, S ASPECT. SITE BURNED VERY HOT IN 2014 KING FIRE; VIRTUALLY ALL TREES KILLED.				
General:	1000+ PLANTS OBSERVED IN 2015. FULL EXTENT OF OCCURRENCE WAS NOT DOCUMENTED AS PLANTS CONTINUED AT LEAST 400' DOWNSLOPE FROM MAPPED LOCATION IN SECTION 28, ONTO USFS LAND.				
Owner/Manager:	PVT-SIERRA PACIFIC, USFS				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	124	Map Index: A0579	EO Index: 102130	Element Last Seen:	2015-06-25
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-06-25
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-15
Quad Summary:	Devil Peak (3812085)				
County Summary:	Placer				
Lat/Long:	38.93447 / -120.53692		Accuracy:	specific area	
UTM:	Zone-10 N4312390 E713493		Elevation (ft):	4300	
PLSS:	T13N, R13E, Sec. 33, NW (M)		Acres:	1.0	
Location:	ABOVE RUBICON RIVER, 1.8 AIR MILES SSE OF DEVIL PEAK, SOUTH SIDE OF FOREST ROAD 14N08E.				
Detailed Location:	MAPPED IN THE SW 1/4 OF THE NW 1/4 OF SECTION 33, BASED ON 2015 ELDORADO NF DIGITAL DATA.				
Ecological:	BURNED MIXED CONIFER-OAK WOODLAND. SITE BURNED IN 2014 KING FIRE.				
General:	4 PLANTS OBSERVED IN 2015. ELDORADO NF POPULATION #143-01.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	126	Map Index: A0875	EO Index: 102437	Element Last Seen:	2009-06-19
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2009-06-19
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-29
Quad Summary:	Caldor (3812054)				
County Summary:	El Dorado				
Lat/Long:	38.57465 / -120.39534		Accuracy:	specific area	
UTM:	Zone-10 N4272794 E726904		Elevation (ft):	4925	
PLSS:	T08N, R14E, Sec. 2 (M)		Acres:	6.0	
Location:	RIDGE ABOVE TWIN GULCH ROAD NEAR HEAD OF PI-PI CREEK, 2 AIR MILES ESE OF CROFT.				
Detailed Location:	MAPPED AS 3 POLYGONS BASED ON USFS DIGITAL DATA, IN THE CENTER OF SECTION 2. USFS POPULATION #139.				
Ecological:	10-30% SOUTH-FACING SLOPES.				
General:	175 PLANTS OBSERVED IN WEST POLYGON, 208 IN MIDDLE POLYGON, AND 5 IN EAST POLYGON IN 2009.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	127	Map Index: A0876	EO Index: 102438	Element Last Seen:	2010-07-14
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-07-14
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-30
Quad Summary:	Caldor (3812054)				
County Summary:	El Dorado				
Lat/Long:	38.59752 / -120.41827		Accuracy:	specific area	
UTM:	Zone-10 N4275276 E724835		Elevation (ft):	5050	
PLSS:	T09N, R14E, Sec. 27, SW (M)		Acres:	9.0	
Location:	ALONG CALDOR LOGGING RD ON RIDGE SOUTH OF MCKINNEY CREEK, 1 AIR MILE SE OF CALDOR.				
Detailed Location:	MAPPED BY CNDDDB BASED ON USFS DIGITAL DATA, IN THE SOUTH 1/2 OF THE SW 1/4 OF SECTION 27. USFS POPULATION #135.				
Ecological:					
General:	22 PLANTS OBSERVED IN 2000. 3 PLANTS OBSERVED IN 2010.				
Owner/Manager:	USFS-ELDORADO NF, PVT				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	128	Map Index: A0878	EO Index: 102440	Element Last Seen:	2012-07-09
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2012-07-09
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-30
Quad Summary:	Caldor (3812054)				
County Summary:	El Dorado				
Lat/Long:	38.61665 / -120.43842		Accuracy:	80 meters	
UTM:	Zone-10 N4277350 E723020		Elevation (ft):	5000	
PLSS:	T09N, R14E, Sec. 21, SW (M)		Acres:	5.0	
Location:	ALONG PLUMMER RIDGE ABOUT 0.8 AIR MILE NNW OF CALDOR.				
Detailed Location:	MAPPED BY CNDDDB BASED ON USFS DIGITAL DATA, IN THE NW 1/4 OF THE SW 1/4 OF SECTION 21. USFS POPULATION #48.				
Ecological:	30% SLOPE, SOUTH ASPECT.				
General:	15 PLANTS SEEN IN 1990. 1 PLANT SEEN IN 2012.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	129	Map Index: A0880	EO Index: 102442	Element Last Seen:	1998-08-06
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2012-07-09
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-30
Quad Summary:	Caldor (3812054)				
County Summary:	El Dorado				
Lat/Long:	38.61619 / -120.4628		Accuracy:	specific area	
UTM:	Zone-10 N4277239 E720898		Elevation (ft):	4540	
PLSS:	T09N, R14E, Sec. 19, SE (M)		Acres:	12.0	
Location:	JUST EAST OF CONFLUENCE OF NORTH STEELY CREEK AND SOUTH STEELY CREEK, ABOVE FOREST RD 09N49B, 1.8 AIR MI NW OF CALDOR.				
Detailed Location:	MAPPED BY CNDDDB BASED ON USFS DIGITAL DATA, IN THE NORTH 1/2 OF THE SE 1/4 OF SECTION 19. USFS POPULATION #131.				
Ecological:	10-20% SLOPE, SOUTH ASPECT.				
General:	12 PLANTS OBSERVED IN 1998. NO PLANTS FOUND IN 2010 OR 2012.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	130	Map Index: A0881	EO Index: 102443	Element Last Seen:	1993-10-01
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2012-06-26
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-30
Quad Summary:	Omo Ranch (3812055)				
County Summary:	El Dorado				
Lat/Long:	38.61132 / -120.55035		Accuracy:	80 meters	
UTM:	Zone-10 N4276492 E713290		Elevation (ft):	3500	
PLSS:	T09N, R13E, Sec. 28, NW (M)		Acres:	5.0	
Location:	CLEAR CREEK BY LAST CHANCE MINE, ABOUT 2.4 AIR MILES WEST OF LEONI MEADOW.				
Detailed Location:	MAPPED BY CNDDDB BASED ON USFS DIGITAL DATA, NEAR THE CENTER OF THE NW 1/4 SECTION 28. USFS POPULATION #127.				
Ecological:	20% SLOPE, SW ASPECT.				
General:	14 PLANTS OBSERVED IN 1993. NO PLANTS FOUND IN 2012.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	131	Map Index: A0888	EO Index: 102445	Element Last Seen:	2012-06-27
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2012-06-27
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-30
Quad Summary:	Old Iron Mountain (3812064)				
County Summary:	El Dorado				
Lat/Long:	38.63067 / -120.48443		Accuracy:	specific area	
UTM:	Zone-10 N4278795 E718971		Elevation (ft):	4300	
PLSS:	T09N, R13E, Sec. 13, SE (M)		Acres:	13.0	
Location:	ABOUT 0.3 AIR MILE NORTH OF MOUTH OF SALT ROCK CREEK, 2.4 AIR MILES EAST OF GRIZZLY FLATS.				
Detailed Location:	MAPPED BY CNDDDB BASED ON USFS DIGITAL DATA, NEAR THE CENTER OF THE SE 1/4 OF SECTION 13. USFS POPULATION #130.				
Ecological:	20% SLOPE. SW ASPECT.				
General:	4 PLANTS OBSERVED IN 1998. 3 PLANTS OBSERVED IN 2012.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	132	Map Index: A0889	EO Index: 102447	Element Last Seen:	1990-07-31
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2004-07-27
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-18
Quad Summary:	Old Iron Mountain (3812064)				
County Summary:	El Dorado				
Lat/Long:	38.68672 / -120.40864		Accuracy:	specific area	
UTM:	Zone-10 N4285199 E725393		Elevation (ft):	5100	
PLSS:	T10N, R14E, Sec. 27, S (M)		Acres:	15.0	
Location:	SLOPE ABOVE CAMP CREEK ABOUT 1.6 AIR MILES SW OF OLD IRON MOUNTAIN.				
Detailed Location:	MAPPED AS 3 POLYGONS BY CNDDDB BASED ON USFS DIGITAL DATA, IN THE SOUTH HALF OF SECTION 27. USFS POPULATION #59.				
Ecological:					
General:	235 PLANTS OBSERVED IN 1990. NO PLANTS FOUND IN 2004.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	133	Map Index: A0890	EO Index: 102448	Element Last Seen:	2003-05-21
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2003-05-21
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-30
Quad Summary:	Old Iron Mountain (3812064), Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.75047 / -120.48807		Accuracy:	80 meters	
UTM:	Zone-10 N4292082 E718289		Elevation (ft):	4180	
PLSS:	T11N, R13E, Sec. 35, SE (M)		Acres:	5.0	
Location:	ABOUT 0.5 AIR MILE EAST OF PARK CREEK RD CROSSING OVER HAZEL CREEK.				
Detailed Location:	MAPPED BY CNDDDB BASED ON USFS DIGITAL DATA, ON SECTION LINE BETWEEN SE 1/4 OF THE SE 1/4 OF SECTION 35 AND THE NE 1/4 OF THE NW 1/4 OF SECTION 1. USFS POPULATION #133.				
Ecological:	3% SLOPE, SOUTH ASPECT.				
General:	12 PLANTS OBSERVED IN 2002. 50 PLANTS OBSERVED IN 2003.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	134	Map Index:	A0891	EO Index:	102449	Element Last Seen:	1988-08-01
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1988-08-01	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-06-30	

Quad Summary: Riverton (3812074)

County Summary: El Dorado

Lat/Long:	38.75264 / -120.46782	Accuracy:	80 meters
UTM:	Zone-10 N4292372 E720043	Elevation (ft):	4600
PLSS:	T11N, R13E, Sec. 36, SE (M)	Acres:	5.0

Location: RIDGE 0.8 AIR MILE SOUTH OF DITCH CAMP THREE.

Detailed Location: MAPPED BY CNDDDB BASED ON USFS DIGITAL DATA, IN THE SE 1/4 OF THE SE 1/4 OF SECTION 36. USFS POPULATION #17.

Ecological:

General: 30 PLANTS OBSERVED IN 1988.

Owner/Manager: PVT

Occurrence No.	135	Map Index:	A0893	EO Index:	102452	Element Last Seen:	2000-05-01
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2000-05-01	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-06-30	

Quad Summary: Riverton (3812074)

County Summary: El Dorado

Lat/Long:	38.76988 / -120.48922	Accuracy:	80 meters
UTM:	Zone-10 N4294234 E718130	Elevation (ft):	3450
PLSS:	T11N, R13E, Sec. 23, SE (M)	Acres:	5.0

Location: ABOUT 0.9 AIR MILE SSW OF WHITE MEADOW ABOVE SOUTH FORK AMERICAN RIVER.

Detailed Location: MAPPED BY CNDDDB BASED ON USFS DIGITAL DATA, IN THE SE 1/4 SECTION 23. USFS POPULATION #128.

Ecological: 25% SLOPE.

General: 1000 PLANTS OBSERVED IN 1994. 1554 PLANTS OBSERVED IN 2000.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	136	Map Index:	A0894	EO Index:	102453	Element Last Seen:	1997-05-13
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1997-05-13	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-06-30	

Quad Summary: Riverton (3812074)

County Summary: El Dorado

Lat/Long:	38.84373 / -120.48914	Accuracy:	80 meters
UTM:	Zone-10 N4302431 E717912	Elevation (ft):	4300
PLSS:	T12N, R13E, Sec. 35 (M)	Acres:	5.0

Location: SLOPE ABOVE SILVER CREEK, ABOUT 3 AIR MILES SW OF UNION VALLEY DAM AND 1 AIR MILE EAST OF MOUTH OF BEAR CREEK.

Detailed Location: MAPPED BY CNDDDB BASED ON USFS DIGITAL DATA, NEAR THE CENTER OF SECTION 35. USFS POPULATION #129.

Ecological: 62% SLOPE, SW ASPECT.

General: 300 PLANTS OBSERVED IN 1997.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	137	Map Index:	A0895	EO Index:	102454	Element Last Seen:	2000-06-08
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2000-06-08	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-06-30	

Quad Summary: Pollock Pines (3812075)
County Summary: El Dorado

Lat/Long:	38.83353 / -120.53008	Accuracy:	80 meters
UTM:	Zone-10 N4301202 E714389	Elevation (ft):	3250
PLSS:	T11N, R13E, Sec. 4, N (M)	Acres:	5.0

Location: ABOUT 0.8 AIR MILE WEST OF JAY BIRD SPRING AND 0.5 AIR MILE NE OF CAMINO DAM.
Detailed Location: MAPPED BY CNDDDB BASED ON USFS DIGITAL DATA, IN NORTH HALF OF SECTION 4. USFS POPULATION #137.
Ecological:
General: ABOUT 1500 PLANTS OBSERVED IN 2000.
Owner/Manager: USFS-ELDORADO NF

<i>Chlorogalum grandiflorum</i>		Element Code: PMLIL0G020
Red Hills soaproot		
Listing Status:	Federal: None	CNDDDB Element Ranks: Global: G3
	State: None	State: S3
	Other: Rare Plant Rank - 1B.2, BLM_S-Sensitive	
Habitat:	General: CISMONTANE WOODLAND, CHAPARRAL, LOWER MONTANE CONIFEROUS FOREST.	
	Micro: OCCURS FREQUENTLY ON SERPENTINE OR GABBRO, BUT ALSO ON NON-ULTRAMAFIC SUBSTRATES; OFTEN ON "HISTORICALLY DISTURBED" SITES. 265-1695 M.	

Occurrence No.	28	Map Index:	13017	EO Index:	22062	Element Last Seen:	1969-06-01
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1969-06-01	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2003-04-17	

Quad Summary: Tunnel Hill (3812086)
County Summary: El Dorado, Placer

Lat/Long:	38.99024 / -120.68740	Accuracy:	2/5 mile
UTM:	Zone-10 N4318237 E700291	Elevation (ft):	1500
PLSS:	T13N, R12E, Sec. 07, SW (M)	Acres:	0.0

Location: RUBICON RIVER CANYON, JUST ABOVE OLD BRIDGE ON ROAD FROM OTTER CREEK.
Detailed Location: EXACT LOCATION UNKNOWN, MAPPED BY CNDDDB AS A BEST GUESS. GIVEN ELEVATION IS 1500 FT.
Ecological: DRY LEDGES OF METAMORPHIC ROCK.
General: SPECIMEN DETERMINED TO BE C. POMERIDIANUM BY STEBBINS, BUT CONFORMS TO C. GRANDIFLORUM IN CERTAIN CHARACTERS ACCORDING TO JOHN WILLOUGHBY. MAPPED LOCATION DETERMINED BY WILLOUGHBY FROM DESCRIPTION ON SPECIMEN. NEEDS FIELDWORK.
Owner/Manager: PVT



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	40	Map Index: 42099	EO Index: 42099	Element Last Seen:	2007-06-27
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2007-06-27
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-11-03

Quad Summary: Omo Ranch (3812055)

County Summary: El Dorado

Lat/Long:	38.54433 / -120.59580	Accuracy:	specific area
UTM:	Zone-10 N4268952 E709525	Elevation (ft):	3100
PLSS:	T08N, R12E, Sec. 13, E (M)	Acres:	28.0

Location: RIDGE EAST OF ROUND MOUNTAIN, ABOUT 1.1 AIR MILES ENE OF ROUND MOUNTAIN PEAK, SSW OF OMO RANCH.

Detailed Location: THREE COLONIES IN THE NW 1/4 OF THE SW 1/4 OF SECTION 18 AND THE N1/2 OF THE SE 1/4 OF SECTION 13.

Ecological: XERIC RIDGETOP IN THE MIDST OF WESTSIDE PONDEROSA PINE FOREST. WITH QUERCUS KELLOGGII, PINUS PONDEROSA, ARCTOSTAPHYLOS VISCIDA, CHAMAEBATIA FOLIOLOSA, AND TOXICODENDRON DIVERSILOBUM. ON VERY ROCKY LOAMS, MARIPOSA SERIES.

General: PROBABLY >1000 PLANTS SEEN IN SE-MOST COLONY IN 1994, DISCONTINUOUSLY DISTRIBUTED OVER 5-10 ACRES. 70 PLANTS SEEN IN 2 COLONIES IN 2005. >1100 PLANTS SEEN IN 2007.

Owner/Manager: BLM, PVT

Occurrence No.	48	Map Index: 50975	EO Index: 50975	Element Last Seen:	1998-06-22
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	1998-06-22
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2003-04-15

Quad Summary: Garden Valley (3812077)

County Summary: El Dorado

Lat/Long:	38.78671 / -120.80710	Accuracy:	specific area
UTM:	Zone-10 N4295391 E690466	Elevation (ft):	2100
PLSS:	T11N, R10E, Sec. 24, SE (M)	Acres:	7.1

Location: UPPER TEXAS CANYON, TEXAS CANYON ROAD APPROXIMATELY 0.8 MILE UP FROM HWY 193, NNE OF CHILI BAR ON THE AMERICAN RIVER.

Detailed Location: 3 COLONIES. MOST OF THE PLANTS ARE ON A NARROW RIDGE TRENDING SOUTHWEST, THE RIDGE IS EAST AND ACROSS A SMALL DRAW FROM THE ROAD. MAPPED MOSTLY WITHIN THE NW 1/4 OF THE SE 1/4 OF SECTION 24.

Ecological: MOSTLY ARCTOSTAPHYLOS VISCIDA CHAPARRAL. PLANTS OCCUR IN OPENINGS, BUT ALSO BENEATH MANZANITA CANOPIES. OTHER DOMINANTS INCLUDE PINUS PONDEROSA, QUERCUS KELLOGGII, Q. CHRYSOLEPIS, HETEROMELES ARBUTIFOLIA, AND TOXICODENDRON DIVERSILOBUM.

General: OVER 100 PLANTS SEEN BY FRANKLIN IN 1998. HE ESTIMATES THERE COULD BE MORE THAN 200+ PLANTS PRESENT. OVERALL SITE QUALITY IS FAIR TO GOOD.

Owner/Manager: BLM



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	49	Map Index: 50980	EO Index: 50980	Element Last Seen:	2017-07-11
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2017-07-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-12-26

Quad Summary: Tunnel Hill (3812086)

County Summary: El Dorado

Lat/Long:	38.99491 / -120.73047	Accuracy:	specific area
UTM:	Zone-10 N4318661 E696548	Elevation (ft):	3000
PLSS:	T13N, R11E, Sec. 10, E (M)	Acres:	11.0

Location: SOUTH OF THE MIDDLE RUBICON RIVER, FROM 1.4 AIR MI WEST TO 1.7 MI WSW OF PENNSYLVANIA POINT, NORTHEAST OF GEORGETOWN.

Detailed Location: FROM GEORGETOWN, GO EAST ON ROAD 63 TO ROAD 15 (TOWARD VOLCANOVILLE). TAKE ROAD 15 MORE THAN 4 MILES TO PG&E RIGHT OF WAY. MOST OF OCCURRENCE IS ALONG R-O-W. MAPPED WITHIN THE EAST 1/2 OF SECTION 10.

Ecological: PLANTS OCCUR IN DISTURBED PGE R-O-W FOR SEVERAL HUNDRED YARDS. ASSOCIATES: QUERCUS CHRYSOLEPIS, STYRAX OFFICINALIS, LOTUS ARGOPHYLLUS, MIMULUS AURANTIACUS, MELICA CALIFORNICA, HETEROMELES ARBUTIFOLIA, AND ARCTOSTAPHYLOS VISCIDA.

General: 150+ PLANTS SEEN IN NORTHERN POLYGON IN 2001. ~50 PLANTS SEEN IN SOUTHERN POLYGON IN 2005. UNKNOWN NUMBER OF PLANTS SEEN IN MIDDLE AND NORTHERN POLYGONS IN 2017. INCLUDES FORMER OCCURRENCE #132.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	59	Map Index: 69717	EO Index: 70504	Element Last Seen:	1997-05-27
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1997-05-27
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2007-08-02

Quad Summary: West Point (3812045), Pine Grove (3812046), Aukum (3812056)

County Summary: Amador

Lat/Long:	38.49551 / -120.63066	Accuracy:	2/5 mile
UTM:	Zone-10 N4263455 E706627	Elevation (ft):	2800
PLSS:	T08N, R12E, Sec. 35 (M)	Acres:	0.0

Location: 0.5 MILE NORTH OF FORT ANN MINE.

Detailed Location:

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1997 PHOTO BY TAYLOR. MORE INFORMATION IS NEEDED.

Owner/Manager: UNKNOWN



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	61	Map Index: 69719	EO Index: 70506	Element Last Seen:	2005-04-12
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2005-04-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2007-08-02

Quad Summary: Garden Valley (3812077)

County Summary: El Dorado

Lat/Long:	38.80242 / -120.82255	Accuracy:	80 meters
UTM:	Zone-10 N4297104 E689081	Elevation (ft):	2040
PLSS:	T11N, R10E, Sec. 14, NE (M)	Acres:	0.0

Location: 0.5 AIR MILE SSE OF THE SUMMIT OF GOPHER HILL, KELSEY.

Detailed Location: JUST BEHIND THE MOBILE HOME PARK IN THE SE 1/4 OF THE NE 1/4 OF SECTION 14.

Ecological:

General: 40 PLANTS OBSERVED IN 2005.

Owner/Manager: BLM

Occurrence No.	62	Map Index: 70857	EO Index: 71837	Element Last Seen:	2007-04-18
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2007-04-18
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-02-26

Quad Summary: Omo Ranch (3812055)

County Summary: El Dorado

Lat/Long:	38.50741 / -120.58614	Accuracy:	80 meters
UTM:	Zone-10 N4264877 E710475	Elevation (ft):	2900
PLSS:	T08N, R13E, Sec. 31, N (M)	Acres:	0.0

Location: 1.0 AIR MILE NNW OF THE JUNCTION OF FIDDLETOWN SILVER LAKE RD & SHAKE RIDGE RD, N SLOPE OF S FORK COSUMNES RIVER CANYON.

Detailed Location: NEAR SMALL RIDGETOP NEAR THE CENTER OF THE NORTHERN HALF OF SECTION 31.

Ecological: ROCKY SOIL, THICK DUFF LAYER, 30% CANOPY COVER, 50% SLOPE. DOMINATED BY CHAMAEBATIA FOLIOLOSA, PINUS PONDEROSA, QUERCUS CHRYSOLEPIS, Q. KELLOGGII, AGOSERIS RETROSA, ARCTOSTAPHYLOS VISCIDA, SANICULA TUBEROSA, AND CHLOROGALUM POMERIDIANUM.

General: ~20 PLANTS OBSERVED IN 2007.

Owner/Manager: PVT-SIERRA PACIFIC



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	63	Map Index:	70859	EO Index:	71839	Element Last Seen:	2007-04-20
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2007-04-20	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2008-02-26	
Quad Summary:	Omo Ranch (3812055)						
County Summary:	El Dorado						
Lat/Long:	38.50622 / -120.59574	Accuracy:	80 meters				
UTM:	Zone-10 N4264723 E709641	Elevation (ft):	2900				
PLSS:	T08N, R12E, Sec. 36, NE (M)	Acres:	0.0				
Location:	1.1 AIR MILE NW OF THE JUNCTION OF FIDDLETOWN SILVER LAKE RD & SHAKE RIDGE RD, N SLOPE OF S FORK COSUMNES RIVER CANYON.						
Detailed Location:	ALONG A LOGGING ROAD IMMEDIATELY WEST OF THE BOUNDARY BETWEEN SECTIONS 31 AND 36. PLANTS FOUND ALONG UPPER ROAD CUT, ALSO FOUND EXTENDING INTO THE SURROUNDING AREA.						
Ecological:	40% SOUTH-FACING SLOPE. THICK DUFF LAYER. ASSOCIATED WITH CHAMAEBATIA FOLIOLOSA, QUERCUS KELLOGGII, AND QUERCUS CHRYSOLEPIS.						
General:	15 PLANTS OBSERVED IN 2007. ID PERFORMED FROM BULB APPEARANCE, LACKING BULB FIBERS. ID MAY NEED FURTHER CONFIRMATION.						
Owner/Manager:	PVT-SIERRA PACIFIC						
Occurrence No.	65	Map Index:	70868	EO Index:	71848	Element Last Seen:	2010-06-23
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2010-06-23	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2017-02-10	
Quad Summary:	Tunnel Hill (3812086), Georgetown (3812087)						
County Summary:	El Dorado						
Lat/Long:	38.96697 / -120.7582	Accuracy:	specific area				
UTM:	Zone-10 N4315502 E694222	Elevation (ft):	3000				
PLSS:	T13N, R11E, Sec. 21 (M)	Acres:	45.0				
Location:	WEST OF KENTUCKY FLAT AND NORTH OF DARK CANYON, ABOUT 2-3 AIR MILES SOUTH OF HORSESHOE BAR.						
Detailed Location:	MAPPED BY CNDDDB AS 8 POLYGONS BASED ON SPI FIELD SURVEYS AND USFS DIGITAL DATA, THROUGHOUT SECTION 21 AS WELL AS IN THE SW 1/4 SW 1/4 SECTION 16. ELEVATION RANGES FROM 2680 TO 3375 FT.						
Ecological:	MARIPOSA VERY ROCKY SILT LOAM. ASSOCIATED W/ARCTOSTAPHYLOS VISCIDA, DODECATHEON HENDERSONII, PINUS LAMBERTIANA, P. PONDEROSA, PSEUDOTSUGA MENZIESII, IRIS SP, CHAMAEBATIA FOLIOLOSA, QUERCUS KELLOGGII, Q. WISLIZENI, AND CEANOTHUS TOMENTOSUS.						
General:	FEWER THAN 10 PLANTS OBSERVED IN NORTHERN TWO COLONIES, AND UNKNOWN NUMBER IN SOUTHERN TWO COLONIES IN 2004. ABOUT 14 PLANTS OBSERVED IN EASTERN COLONY IN 2007. ABOUT 675 PLANTS OBSERVED IN CENTRAL 4 POLYGONS IN 2010.						
Owner/Manager:	PVT-SIERRA PACIFIC, USFS						



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	69	Map Index: 72771	EO Index: 73607	Element Last Seen:	2007-06-27
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2007-06-27
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-11-10
Quad Summary:	Omo Ranch (3812055)				
County Summary:	El Dorado				
Lat/Long:	38.55331 / -120.59532		Accuracy:	80 meters	
UTM:	Zone-10 N4269951 E709541		Elevation (ft):	3100	
PLSS:	T08N, R12E, Sec. 12, SE (M)		Acres:	0.0	
Location:	JUST W OF OLD INDIAN DIGGINGS TOWN SITE, APPROX 1.2 MI NE OF ROUND MTN PEAK.				
Detailed Location:	MAPPED ACCORDING TO A 2007 PURDY MAP.				
Ecological:	OPENING IN PONDEROSA PINE FOREST ON S-FACING SLOPE. VERY ROCKY SOIL (MARIPOSA SERIES). ROCK FRAGMENTS ARE METAMORPHIC SCHIST. ASSOC SPP INCL PINUS PONDEROSA, CALOCEDRUS DECURRENS, QUERCUS KELLOGII, ARCTOSTAPHYLOS VISCIDA, & CHAMAEBATIA FOL.				
General:	30 PLANTS SEEN IN 2007. PLANTS ARE PRESENT AND THRIVING IN THE MOST DISTURBED AREAS; PLANTS DISAPPEAR AS DISTURBANCE LESSENS AND COMPETITION INCREASES.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	70	Map Index: 72772	EO Index: 73608	Element Last Seen:	2007-04-24
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2007-04-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-11-03
Quad Summary:	Omo Ranch (3812055), Aukum (3812056)				
County Summary:	El Dorado				
Lat/Long:	38.54877 / -120.62471		Accuracy:	specific area	
UTM:	Zone-10 N4269380 E706993		Elevation (ft):	3100	
PLSS:	T08N, R12E, Sec. 14, NW (M)		Acres:	6.0	
Location:	APPROXIMATELY 0.75 MI NW OF ROUND MTN PEAK, SW OF CEMENT HILL.				
Detailed Location:	MAPPED AS 3 POLYGONS ACCORDING TO A 2007 PURDY MAP.				
Ecological:	OPENINGS IN PONDEROSA PINE FOREST ON KNOBS, RIDGES AND UPPER, GENERALLY S-FACING SLOPES. VERY ROCKY SOILS, OFTEN NEAR ROCK OUTCROPPINGS (METAMORPHIC SCHIST), MARIPOSA SERIES SOILS. ASSOCIATES INCL PINUS PONDEROSA, CALOCEDRUS DECURRENS, ETC.				
General:	100 PLANTS SEEN IN 2007. THE HIGHEST CONCENTRATION OF PLANTS APPEAR TO BE IN OPEN, LESS SHADED AREAS THAT HAVE RECEIVED AT LEAST SOME SOIL DISTURBANCE; AREAS OF HEAVY BRUSH OR TREE DOMINANCE HAVE FEWER PLANTS.				
Owner/Manager:	PVT-SIERRA PACIFIC				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	71	Map Index: 72773	EO Index: 73609	Element Last Seen:	2007-04-24
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2007-04-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-11-03

Quad Summary: Aukum (3812056)

County Summary: El Dorado

Lat/Long:	38.54201 / -120.63041	Accuracy:	specific area
UTM:	Zone-10 N4268617 E706515	Elevation (ft):	3100
PLSS:	T08N, R12E, Sec. 14, SW (M)	Acres:	20.0

Location: APPROXIMATELY 0.75 MI W OF ROUND MTN PEAK, SW OF CEMENT HILL.

Detailed Location: MAPPED AS 3 POLYGONS ACCORDING TO A 2007 PURDY MAP.

Ecological: OPENINGS IN PONDEROSA PINE FOREST ON KNOBS, RIDGES AND UPPER, GENERALLY S-FACING SLOPES. VERY ROCKY SOILS, OFTEN NEAR ROCK OUTCROPPINGS (METAMORPHIC SCHIST), MARIPOSA SERIES SOILS. ASSOCIATES INCL PINUS PONDEROSA, CALOCEDRUS DECURRENS, ETC.

General: 200 PLANTS SEEN IN 2007. THE HIGHEST CONCENTRATION OF PLANTS APPEAR TO BE IN OPEN, LESS SHADED AREAS THAT HAVE RECEIVED AT LEAST SOME SOIL DISTURBANCE; AREAS OF HEAVY BRUSH OR TREE DOMINANCE HAVE FEWER PLANTS.

Owner/Manager: PVT-SIERRA PACIFIC

Occurrence No.	73	Map Index: 75785	EO Index: 76797	Element Last Seen:	2008-05-27
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2008-05-27
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2009-07-15

Quad Summary: Tunnel Hill (3812086)

County Summary: El Dorado

Lat/Long:	38.94840 / -120.69954	Accuracy:	80 meters
UTM:	Zone-10 N4313567 E699356	Elevation (ft):	4057
PLSS:	T13N, R11E, Sec. 25, NW (M)	Acres:	0.0

Location: ABOUT 1.69 AIR MILES NE OF CHIQUITA LAKE AND 0.24 AIR MILES EAST OF TUNNEL HILL ROAD.

Detailed Location: SINGLE COLONY MAPPED JUST WEST OF THE CENTER OF SECTION 25.

Ecological: GROWING IN OPEN ROCKY SOIL CLEARINGS IN A MIXED CONIFER FOREST. ASSOCIATED WITH ARCTOSTAPHYLOS VISCIDA, QUERCUS KELLOGGII, PINUS PONDEROSA, AND CHAMEABATIA FOLIOLOSA. THIN LAYER OF PINE NEEDLE DUFF PRESENT. 0% CANOPY, 45% SLOPE, S ASPECT.

General: 45 PLANTS OBSERVED IN 2008.

Owner/Manager: PVT-SIERRA PACIFIC



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	84	Map Index:	79083	EO Index:	80048	Element Last Seen:	2009-06-15
Occ. Rank:	Fair	Presence:	Presumed Extant	Site Last Seen:	2009-06-15	Record Last Updated:	2010-06-15
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				
Quad Summary:	Omo Ranch (3812055)						
County Summary:	Amador, El Dorado						
Lat/Long:	38.51062 / -120.54016			Accuracy:	80 meters		
UTM:	Zone-10 N4265340 E714475			Elevation (ft):	3300		
PLSS:	T08N, R13E, Sec. 28, SE (M)			Acres:	0.0		
Location:	NORTH SIDE OF SOUTH FORK COSUMNES RIVER, ABOUT 2 AIR MILES ESE OF PATTERSON MINE.						
Detailed Location:	MAPPED NEAR THE CORNER OF SECTIONS 27, 28, 33, & 34 ACCORDING TO 2009 UTM COORDINATES FROM SIERRA PACIFIC INDUSTRIES.						
Ecological:	SOUTH FACING SLOPE WITH ROCKY SOILS. ASSOCIATED WITH PONDEROSA PINE AND BLACK OAK.						
General:	150 PLANTS OBSERVED IN 2009.						
Owner/Manager:	PVT-SIERRA PACIFIC						
Occurrence No.	85	Map Index:	79084	EO Index:	80049	Element Last Seen:	2015-06-11
Occ. Rank:	Excellent	Presence:	Presumed Extant	Site Last Seen:	2015-06-11	Record Last Updated:	2017-02-16
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				
Quad Summary:	Pollock Pines (3812075), Devil Peak (3812085)						
County Summary:	El Dorado						
Lat/Long:	38.87544 / -120.51333			Accuracy:	specific area		
UTM:	Zone-10 N4305893 E715717			Elevation (ft):	5175		
PLSS:	T12N, R13E, Sec. 22, NW (M)			Acres:	24.0		
Location:	4 AIR MILES WEST OF UNION VALLEY RESERVOIR AND 3.5 AIR MILES ESE OF STUMPY MEADOWS LAKE.						
Detailed Location:	PLANTS GROWING IN THE CLEARCUT, SKID TRAILS, ALONG ROAD, AND INTO THE FOREST; PLANTS DISAPPEAR AS DISTURBANCE LESSENS AND CANOPY COVER INCREASES. MAPPED AS 4 POLYGONS IN THE NW 1/4 OF SECTION 22.						
Ecological:	MAJORITY OF POPULATION GROWING IN CLEARCUT WITH NO CANOPY COVER WITHIN A MIXED CONIFER FOREST. ASSOCIATED WITH QUERCUS KELLOGGII, CHAMAEBATIA FOLIOLOSA, CEANOTHUS PROSTRATUS, PENSTEMON SP, ETC. SITE BURNED IN 2014 KING FIRE.						
General:	10,000 PLANTS OBSERVED IN 2008. 85,000+ PLANTS OBSERVED IN 2015 (COULD BE AS MANY AS 200,000+ PLANTS).						
Owner/Manager:	PVT-SIERRA PACIFIC						



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	88	Map Index: 94982	EO Index: 96106	Element Last Seen:	2016-06-10
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-06-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-12-12
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.83445 / -120.52493		Accuracy:	specific area	
UTM:	Zone-10 N4301316 E714834		Elevation (ft):	4125	
PLSS:	T11N, R13E, Sec. 4, NE (M)		Acres:	3.0	
Location:	SOUTH OF JAYBIRD POWERHOUSE RD NEAR TRANSMISSION LINE, ABOUT 0.3 AND 0.4 AIR MILE EAST OF JAYBIRD POWERHOUSE.				
Detailed Location:	IN TRANSMISSION LINE ROW ~2000 FT E OF CAMINO POWERHOUSE, AND ~400 FT S OF POWERHOUSE ACCESS ROAD. MAPPED AS 2 POLYGONS ACCORDING TO USFS DIGITAL DATA, IN THE NORTH 1/2 OF THE NE 1/4 OF SECTION 4.				
Ecological:	TRANSMISSION LINE AND TRAIL.				
General:	EASTERN POLYGON: 250 PLANTS OBSERVED IN 2013, 40 IN 2015, 70 IN 2016. WESTERN POLYGON: 100 PLANTS OBSERVED IN 2016.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	89	Map Index: 94985	EO Index: 96109	Element Last Seen:	2010-05-12
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2010-05-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-01-26
Quad Summary:	Slate Mtn. (3812076)				
County Summary:	El Dorado				
Lat/Long:	38.84867 / -120.68942		Accuracy:	specific area	
UTM:	Zone-10 N4302520 E700514		Elevation (ft):	3200	
PLSS:	T12N, R12E, Sec. 31, NW (M)		Acres:	10.0	
Location:	APPROXIMATELY 0.6 AND 0.8 AIR MILE WNW OF SOAPWEED, APPROXIMATELY 7.6 AIR MILES NORTH OF CAMINO.				
Detailed Location:	TWO POLYGONS MAPPED ACCORDING TO COORDINATES PROVIDED BY WAVERLY, IN THE WEST 1/2 OF THE NW 1/4 OF SECTION 31.				
Ecological:	SIERRA MIXED CONIFER, MANZANITA, POOR/SHALLOW SOILS.				
General:	12 PLANTS OBSERVED IN THE NORTHWESTERN POLYGON AND 12 PLANTS OBSERVED IN THE SOUTHEASTERN POLYGON IN 2010.				
Owner/Manager:	PVT-SIERRA PACIFIC				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	90	Map Index:	94988	EO Index:	96113	Element Last Seen:	2012-06-27
Occ. Rank:	Fair	Presence:	Presumed Extant	Site Last Seen:		2012-06-27	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2015-01-22	
Quad Summary:	Tunnel Hill (3812086)						
County Summary:	El Dorado						
Lat/Long:	38.92490 / -120.74602	Accuracy:	specific area				
UTM:	Zone-10 N4310859 E695392	Elevation (ft):	3160				
PLSS:	T12N, R11E, Sec. 03, NW (M)	Acres:	5.0				
Location:	INTERSECTION OF TOBACCO GULCH TRAIL AND ROAD 12N70T, SOUTHWEST OF TIPTON HILL.						
Detailed Location:	MOST PLANTS FOUND ALONG TRAIL/ROAD; A FEW GROWING IN THE ROAD. MAPPED ACCORDING TO DIGITAL DATA PROVIDED BY LO, IN THE NW 1/4 OF THE NW 1/4 OF SECTION 3.						
Ecological:	EDGE OF FOREST DOMINATED BY PSEUDOTSUGA MENZIESII, PINUS PONDEROSA, QUERCUS KELLOGGII, AND ARBUTUS MENZIESII. ASSOCIATED WITH ARCTOSTAPHYLOS VISCIDA AND CYTISUS SCOPARIUS. N-FACING 10-20% SLOPE. FULL SHADE TO PART SUN. DRY METAMORPHIC SOIL.						
General:	150 PLANTS OBSERVED IN 2012.						
Owner/Manager:	USFS-ELDORADO NF						
Occurrence No.	91	Map Index:	94989	EO Index:	96115	Element Last Seen:	2015-04-29
Occ. Rank:	Poor	Presence:	Presumed Extant	Site Last Seen:		2015-04-29	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2017-02-10	
Quad Summary:	Tunnel Hill (3812086)						
County Summary:	El Dorado						
Lat/Long:	38.89615 / -120.73994	Accuracy:	specific area				
UTM:	Zone-10 N4307680 E695999	Elevation (ft):	2935				
PLSS:	T12N, R11E, Sec. 15, NW (M)	Acres:	3.0				
Location:	ALONG ROAD 12N31, WEST SIDE OF ROCK CREEK, NORTH OF SUGARLOAF.						
Detailed Location:	MAPPED AS 2 POLYGONS BASED ON USFS DIGITAL DATA, IN THE NE 1/4 OF THE NW 1/4 OF SECTION 15 AND THE SE 1/4 OF THE SW 1/4 OF SECTION 10.						
Ecological:	ALONG AND BELOW THE TRAIL IN PSEUDOTSUGA MENZIESII AND QUERCUS CHRYSOLEPIS WOODLAND. SOUTHWEST-FACING 30% SLOPE IN PART SUN. DRY SEDIMENTARY SOIL (SHALE).						
General:	6 PLANTS IN SOUTH POLYGON IN 2012. PLANTS GROWING RIGHT NEXT TO TRAIL; THEY WERE FLAGGED FOR AVOIDANCE. POSSIBLY MORE PLANTS GROWING IN POTENTIAL HABITAT ALONG THE TRAIL THAT WAS NOT SURVEYED. UNKNOWN NUMBER SEEN IN NORTH POLYGON IN 2015.						
Owner/Manager:	USFS-ELDORADO NF						



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	94	Map Index:	95000	EO Index:	96132	Element Last Seen:	2012-05-31
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2012-05-31	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2015-01-23	
Quad Summary:	Tunnel Hill (3812086), Georgetown (3812087)						
County Summary:	El Dorado						
Lat/Long:	38.93088 / -120.75227			Accuracy:	specific area		
UTM:	Zone-10 N4311509 E694834			Elevation (ft):	3200		
PLSS:	T13N, R11E, Sec. 33, SE (M)			Acres:	8.0		
Location:	ALONG TOBACCO GULCH TRAIL, ABOUT 0.4 MILE SOUTH OF BALDERSON STATION.						
Detailed Location:	6 COLONIES MAPPED AS ONE POLYGON ACCORDING TO DIGITAL DATA PROVIDED BY LO.						
Ecological:	FOREST DOMINATED BY PSEUDOTSUGA MENZIESII, PINUS PONDEROSA, CALOCEDRUS DECURRENS, AND QUERCUS KELLOGGII. ASSOCIATED WITH ARCTOSTAPHYLOS PATULA, A. VISCIDA, PTERIDIUM AQUILINUM, HOSACKIA INCANA, CYTISUS SCOPARIUS. S-FACING. METAMORPHIC SOIL.						
General:	980 PLANTS OBSERVED IN 2012. MOST PLANTS ARE ALONG THE SIDES OF THE TRAIL; A FEW ARE ON THE TRAIL. PLANTS WERE FLAGGED FOR AVOIDANCE DURING CONSTRUCTION OF NEW BRIDGE AND CULVERT, AND RESTORATION OF CLOSED PART OF TRAIL.						
Owner/Manager:	USFS-ELDORADO NF						
Occurrence No.	106	Map Index:	A3604	EO Index:	105241	Element Last Seen:	2015-06-11
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2015-06-11	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2017-02-17	
Quad Summary:	Pollock Pines (3812075)						
County Summary:	El Dorado						
Lat/Long:	38.86784 / -120.51596			Accuracy:	specific area		
UTM:	Zone-10 N4305043 E715511			Elevation (ft):	5000		
PLSS:	T12N, R13E, Sec. 21, SE (M)			Acres:	8.0		
Location:	NORTH OF SILVER CREEK BETWEEN BEAR CREEK AND DAVIS CREEK, ABOUT 2.7 AIR MILES ESE OF LOOKOUT MOUNTAIN.						
Detailed Location:	MAPPED AS 2 POLYGONS BASED ON 2015 SPI COORDINATES AND MAP, IN THE SE 1/4 OF THE SE 1/4 OF SECTION 21 AND THE NW 1/4 OF THE SW 1/4 OF SECTION 22.						
Ecological:	MIXED CONIFER FOREST WITH QUERCUS KELLOGGII, MANZANITA. WEATHERED METAVOLCANIC ROCK SUBSTRATE, SE ASPECT. SITE BURNED IN 2014 KING FIRE.						
General:	ABOUT 300+ PLANTS OBSERVED IN EAST POLYGON IN 2008, PRIOR TO TIMBER HARVEST. 2500+ PLANTS OBSERVED IN 2015 AFTER TIMBER HARVEST AND 2014 KING FIRE.						
Owner/Manager:	PVT-SIERRA PACIFIC						



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	107	Map Index: A3607	EO Index: 105243	Element Last Seen:	2015-06-23
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2015-06-23
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-02-10
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.86427 / -120.53799		Accuracy:	specific area	
UTM:	Zone-10 N4304596 E713610		Elevation (ft):	4400	
PLSS:	T12N, R13E, Sec. 29, NE (M)		Acres:	10.0	
Location:	JUST EAST OF ONION CREEK AND ABOUT 0.6 AIR MILE NORTH OF SILVER CREEK AT BIG BEND, 1.8 AIR MILES SE OF LOOKOUT MOUNTAIN.				
Detailed Location:	MAPPED FROM 2015 SPI MAPS AND COORDINATES, IN THE SE 1/4 OF THE SE 1/4 OF SECTION 20 AND THE NE 1/4 OF THE NE 1/4 OF SECTION 29.				
Ecological:	MIXED CONIFER FOREST, IN ROCKY BURNED PATCHES WITH OTHER HERBS AND RESPROUTING SHRUBS. SOUTH ASPECT. SITE BURNED IN 2014 KING FIRE.				
General:	500+ PLANTS OBSERVED IN 2015.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	108	Map Index: A3608	EO Index: 105244	Element Last Seen:	2015-06-11
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2015-06-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-02-17
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.85795 / -120.52174		Accuracy:	specific area	
UTM:	Zone-10 N4303932 E715040		Elevation (ft):	4500	
PLSS:	T12N, R13E, Sec. 28 (M)		Acres:	54.0	
Location:	RIDGES ABOVE DAVIS CREEK, ABOUT 2.75 AIR MILES SE OF LOOKOUT MOUNTAIN AND 1.3-2.0 AIR MILES WEST OF GOVERNMENT RIDGE.				
Detailed Location:	MAPPED AS 4 POLYGONS BY CNDDDB BASED ON 2015 SPI MAP AND COORDINATES, WITHIN SECTION 28.				
Ecological:	MIXED CONIFER FOREST ON ANDESITE SOIL, WITH CHAMAEBATIA FOLIOLOSA, COLLOMIA HETEROPHYLLA, ARCTOSTAPHYLOS, GARRYA FREMONTII, DICHELOSTEMMA, AND THE RARE CALOCHORTUS CLAVATUS VAR. AVIUS. SITE BURNED IN 2014 KING FIRE.				
General:	24 PLANTS OBSERVED IN 2008. AN ESTIMATED 46,000+ PLANTS OBSERVED IN 2015. POPULATION MAY EXTEND ONTO UNSURVEYED USFS LAND TO SOUTH.				
Owner/Manager:	PVT-SIERRA PACIFIC, USFS				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	109	Map Index: A3610	EO Index: 105245	Element Last Seen:	2015-06-11
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2015-06-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-12-12
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.85074 / -120.50869		Accuracy:	specific area	
UTM:	Zone-10 N4303163 E716194		Elevation (ft):	4700	
PLSS:	T12N, R13E, Sec. 27, S (M)		Acres:	23.0	
Location:	WEST OF BEAR CREEK AND ABOUT 0.25 AIR MILE NORTH OF SILVER CREEK, ABOUT 1.4 AIR MILES NNE OF JAY BIRD SPRING.				
Detailed Location:	MAPPED AS 3 POLYGONS FROM 2015 SPI COORDINATES AND MAP, MOSTLY IN THE SOUTH 1/2 OF SECTION 27.				
Ecological:	MIXED CONIFER FOREST ON ANDESITE SOIL, WITH PINUS PONDEROSA, QUERCUS KELLOGGII, CALOEDRUS, CHAMAEBATIA FOLIOLOSA, COLLOMIA HETEROPHYLLA, AND THE RARE CALOCHORTUS CLAVATUS VAR. AVIUS. SE ASPECT, 20% SLOPE. SITE BURNED IN 2014 KING FIRE.				
General:	6000+ PLANTS OBSERVED IN 2015. POPULATION EXTENDS ONTO UNSURVEYED USFS LAND TO SOUTH.				
Owner/Manager:	PVT-SIERRA PACIFIC, USFS				
Occurrence No.	110	Map Index: A3611	EO Index: 105246	Element Last Seen:	2016-06-08
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-02-06
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.8337 / -120.5182		Accuracy:	80 meters	
UTM:	Zone-10 N4301249 E715420		Elevation (ft):	4600	
PLSS:	T11N, R13E, Sec. 3, NW (M)		Acres:	5.0	
Location:	ALONG JAY BIRD POWERHOUSE ROAD AT TRANSMISSION CORRIDOR 0.7 AIR MILE EAST OF POWERHOUSE.				
Detailed Location:	MAPPED BY CNDDDB FROM 2016 BRONNY COORDINATES, IN THE NW 1/4 OF THE NW 1/4 OF SECTION 3.				
Ecological:	MIXED CONIFER AND HARDWOOD FOREST, ALONG WITH PATCHY CHAPARRAL/LAVA CAP HABITATS WITHIN SMUD TRANSMISSION CORRIDOR. ASSOCIATES INCLUDE CALOCHORTUS CLAVATUS VAR. AVIUS, PHACELIA STEBBINSII, AND STREPTANTHUS LONGISILIQUEUS.				
General:	UNKNOWN NUMBER OF PLANTS OBSERVED IN 2016 DURING A SURVEY FOR STREPTANTHUS LONGISILIQUEUS.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	111	Map Index: A3612	EO Index: 105247	Element Last Seen:	2015-06-15
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-06-15
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-02-06
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.84484 / -120.54623		Accuracy:	specific area	
UTM:	Zone-10 N4302420 E712954		Elevation (ft):	4400	
PLSS:	T12N, R13E, Sec. 32, NE (M)		Acres:	1.0	
Location:	NORTH OF SUGAR PINE CREEK, ABOUT 1 AIR MILE NW OF JAYBIRD POWERHOUSE AND 0.2 AIR MILE WEST OF SILVER CREEK.				
Detailed Location:	MAPPED FROM USFS DIGITAL DATA, IN THE SW 1/4 OF THE NE 1/4 OF SECTION 32.				
Ecological:	PINE FOREST. SITE BURNED IN 2014 KING FIRE.				
General:	15 PLANTS OBSERVED IN A SMALL PATCH IN 2015.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	112	Map Index: A3613	EO Index: 105249	Element Last Seen:	2016-06-08
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-06-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-12-14
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.83338 / -120.5462		Accuracy:	specific area	
UTM:	Zone-10 N4301147 E712990		Elevation (ft):	4620	
PLSS:	T11N, R13E, Sec. 5, N (M)		Acres:	11.0	
Location:	ABOUT 0.6 AIR MILE NORTH OF SILVER CREEK AND 0.5-1.1 AIR MILE WEST OF JAYBIRD POWERHOUSE, ELDORADO NATIONAL FOREST.				
Detailed Location:	IN TRANSMISSION LINE ROW IN VICINITY OF HIGH TENSION SPUR RD. MAPPED AS 4 POLYGONS BY CNDDDB FROM USFS DIGITAL DATA, IN THE NORTH HALF OF SECTION 5.				
Ecological:	BURNED PINE FOREST AND DISTURBED TRANSMISSION LINE RIGHT OF WAY. SITE BURNED IN 2014 KING FIRE.				
General:	25 PLANTS OBSERVED IN EAST POLYGON IN 2013. 150+ PLANTS IN WEST POLYGON, 100S IN MIDDLE TWO POLYGONS, AND 100S IN EASTERN POLYGON IN 2015. 20 PLANTS IN EAST POLYGON AND 150 PLANTS IN WEST POLYGON IN 2016.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	113	Map Index: A3616	EO Index: 105251	Element Last Seen:	2016-06-07
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-06-07
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-12-14
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.83015 / -120.56166		Accuracy:	specific area	
UTM:	Zone-10 N4300753 E711658		Elevation (ft):	4500	
PLSS:	T11N, R13E, Sec. 6, NE (M)		Acres:	8.0	
Location:	RIDGE BETWEEN SUGAR PINE CREEK AND SILVER CREEK, ABOUT 0.6-1.0 AIR MILE EAST OF CAMP SEVEN.				
Detailed Location:	MAPPED AS 3 POLYGONS BY CNDDDB IN THE SOUTH 1/2 OF THE NE 1/4 OF SECTION 6 AND THE WEST 1/2 OF THE NW 1/4 OF SECTION 5, BASED ON USFS DIGITAL DATA.				
Ecological:	BURNED PINE FOREST AND CLEARED TRANSMISSION LINE RIGHT OF WAY. SITE BURNED IN 2014 KING FIRE.				
General:	100 PLANTS OBSERVED IN WEST POLYGON IN 2013. HUNDREDS OF PLANTS OBSERVED THROUGHOUT SITE IN 2015. 19 PLANTS OBSERVED IN WEST POLYGON IN 2016.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	114	Map Index: A3621	EO Index: 105256	Element Last Seen:	2016-06-07
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-06-07
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-12-14
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.82093 / -120.58071		Accuracy:	specific area	
UTM:	Zone-10 N4299686 E710031		Elevation (ft):	4200	
PLSS:	T11N, R12E, Sec. 12, NE (M)		Acres:	17.0	
Location:	ALONG FOREST RD 12N34 & 12N34L, ABOUT 0.75 TO 1.6 ROAD MILES SOUTH OF CAMP SEVEN, NORTH OF SILVER CREEK.				
Detailed Location:	MAPPED BY CNDDDB AS 5 POLYGONS BASED ON USFS DIGITAL DATA, NEAR THE COMMON CORNER OF SECTIONS 1, 6, 7 & 12.				
Ecological:	SOME PLANTS ADJACENT TO ROAD, OTHERS WITHIN TRANSMISSION LINE RIGHT OF WAY. PONDEROSA PINE-TANOAK FOREST AND MANZANITA SCRUB. BURNED IN 2014 KING FIRE.				
General:	25 PLANTS OBSERVED IN A SMALL PORTION OF SITE IN 2013. 882 PLANTS OBSERVED ACROSS SITE IN 2015. 80 PLANTS OBSERVED ALONG TRANSMISSION LINE IN 2016.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	115	Map Index: A3623	EO Index: 105258	Element Last Seen:	2015-06-10
Occ. Rank:	Poor		Presence: Presumed Extant	Site Last Seen:	2015-06-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-02-14
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.82639 / -120.59637		Accuracy:	specific area	
UTM:	Zone-10 N4300257 E708655		Elevation (ft):	3900	
PLSS:	T11N, R12E, Sec. 1, SW (M)		Acres:	1.0	
Location:	BUTCHER KNIFE JOE; ALONG FOREST ROAD 12N57 EAST OF BRUSH CREEK, AND ABOUT 1.3 AIR MILES SW OF CHAIX MOUNTAIN.				
Detailed Location:	MAPPED BY CNDDDB FROM USFS DIGITAL DATA, ON SECTION LINE BETWEEN THE NW 1/4 OF THE SW 1/4 OF SECTION 1 AND THE NE 1/4 OF THE SE 1/4 OF SECTION 2.				
Ecological:	CONIFER WOODLAND.				
General:	1 PLANT OBSERVED NORTH OF ROAD IN 2015.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	116	Map Index: A3624	EO Index: 105260	Element Last Seen:	2016-05-13
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	2016-05-13
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-12-14
Quad Summary:	Pollock Pines (3812075), Slate Mtn. (3812076)				
County Summary:	El Dorado				
Lat/Long:	38.81726 / -120.62516		Accuracy:	specific area	
UTM:	Zone-10 N4299177 E706182		Elevation (ft):	3400	
PLSS:	T11N, R12E, Sec. 10 (M)		Acres:	161.0	
Location:	NORTH OF BRUSH CREEK RESERVOIR AND ABOUT 2.0-3.5 AIR MILES SW OF CHAIX MOUNTAIN, ELDORADO NF.				
Detailed Location:	MAPPED AS MANY POLYGONS BY CNDDDB FROM USFS DIGITAL DATA, ACROSS PORTIONS OF SECTIONS 2 (SW 1/4), 3 (SOUTH 1/2), 9 (EAST 1/2), 10 (THROUGHOUT) & 11 (NW 1/4).				
Ecological:	UNDERSTORY OF MIXED CONIFER FOREST, PINE-MADRONE WOODLAND, AND MANZANITA CHAPARRAL. SITE BURNED IN 2014 KING FIRE. ASSOCIATES INCLUDE CHAMAEBATIA, ASTRAGALUS, ACMISPON, CLAYTONIA PERFOLIATA, DICHELOSTEMMA, COLLOMIA HETEROPHYLLA, ETC.				
General:	13,656+ PLANTS OBSERVED IN 2015. UNKNOWN NUMBER OF PLANTS SEEN ACROSS THE MAJORITY OF THE OCCURRENCE IN 2016.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	117	Map Index: A3626	EO Index: 105261	Element Last Seen:	2016-06-06
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	2016-06-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-12-14
Quad Summary:	Pollock Pines (3812075), Slate Mtn. (3812076)				
County Summary:	El Dorado				
Lat/Long:	38.80312 / -120.60822		Accuracy:	specific area	
UTM:	Zone-10 N4297646 E707694		Elevation (ft):	3000	
PLSS:	T11N, R12E, Sec. 14 (M)		Acres:	583.0	
Location:	POHO RIDGE SOUTH OF BRUSHY CREEK RESERVOIR AND NORTH OF SOUTH FORK AMERICAN RIVER.				
Detailed Location:	MAPPED AS MANY POLYGONS BY CNDDDB FROM USFS DIGITAL DATA, ACROSS PORTIONS OF SECTIONS 10, 11, 13, 14 & 15.				
Ecological:	WITHIN CLEARINGS AND ALONG ROADSIDES, IN PONDEROSA PINE FOREST AND MANZANITA CHAPARRAL. SITE BURNED IN 2014 KING FIRE.				
General:	975 PLANTS OBSERVED IN A PORTION OF SITE IN 2013. 16,872+ PLANTS OBSERVED IN 2015. 5125 PLANTS OBSERVED IN A PORTION OF SITE IN 2016; LIKELY MORE PLANTS IN VICINITY.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	118	Map Index: A3629	EO Index: 105264	Element Last Seen:	2015-06-11
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-06-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-02-07
Quad Summary:	Slate Mtn. (3812076)				
County Summary:	El Dorado				
Lat/Long:	38.804 / -120.65426		Accuracy:	specific area	
UTM:	Zone-10 N4297640 E703693		Elevation (ft):	3200	
PLSS:	T11N, R12E, Sec. 16, NE (M)		Acres:	14.0	
Location:	RIDGE BETWEEN BRUSH CREEK AND SLAB CREEK, ALONG FOREST RD 12N56 & RD 12N56F, 0.6-1.25 AIR MI SSW OF OLD PINO.				
Detailed Location:	MAPPED AS 3 POLYGONS BY CNDDDB BASED ON USFS DIGITAL DATA. TWO POPULATIONS FOUND AT EAST END OF SPUR ROAD 12N56F, AND ONE POPULATION SCATTERED ALONG ROAD 12N56 PAST THE END OF DRIVABLE ROAD.				
Ecological:	MIXED CONIFER FOREST, OAK WOODLAND, AND CHAPARRAL WITH ARCTOSTAPHYLOS VISCIDA, ERIODICTYON, ETC. SITE BURNED IN 2014 KING FIRE.				
General:	IN 2015, ABOUT 100+ PLANTS OBSERVED IN SW POLYGON AND AN UNKNOWN NUMBER OBSERVED IN 2 NE POLYGONS.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	119	Map Index: A3634	EO Index: 105270	Element Last Seen:	2017-07-14
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2017-07-14
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-12-27

Quad Summary: Slate Mtn. (3812076)

County Summary: El Dorado

Lat/Long:	38.78392 / -120.63424	Accuracy:	specific area
UTM:	Zone-10 N4295457 E705489	Elevation (ft):	3100
PLSS:	T11N, R12E, Sec. 22, W (M)	Acres:	11.0

Location: ALONG TRANSMISSION CORRIDOR AT INDEPENDENCE POINT, ~ 0.6 TO 1.5 AIR MI SW OF EL DORADO POWERHOUSE, NORTH OF LONG CANYON.

Detailed Location: 5 POLYGONS MAPPED ACCORDING TO USFS DIGITAL DATA AND PRESTON DIGITAL DATA, IN THE WEST 1/2 OF SECTION 22 AND THE SE 1/4 OF THE SE 1/4 OF SECTION 21.

Ecological: OPEN AREAS IN CHAPARRAL, WITH GRINDELIA CAMPORUM, ELYMUS, LUPINUS, ANTENNARIA ARGENTEA, HYPERICUM CONCINNUM, ACMISPON GRANDIFLORUS, GNAPHALIUM THERMALE, CHAMAEBATIA FOLIOLOSA, PTERIDIUM AQUILINUM, HYPOCHAERIS RADICATA, FESTUCA MYUROS, ETC.

General: POPULATION NUMBERS FOR PORTIONS OF SITE: 40 PLANTS OBSERVED BY SMUD AT AN UNKNOWN DATE, UNKNOWN NUMBER OF PLANTS OBSERVED IN 2004, 100 PLANTS OBSERVED IN 2013, 1550 PLANTS IN 2016, 340 PLANTS IN 2017. INCLUDES FORMER OCCURRENCE #120.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	121	Map Index: A3638	EO Index: 105273	Element Last Seen:	2016-06-01
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2017-07-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-12-14

Quad Summary: Slate Mtn. (3812076)

County Summary: El Dorado

Lat/Long:	38.77032 / -120.65747	Accuracy:	specific area
UTM:	Zone-10 N4293895 E703510	Elevation (ft):	3085
PLSS:	T11N, R12E, Sec. 29, SE (M)	Acres:	3.0

Location: ROAD AND TRANSMISSION LINE WEST OF BADGER HILL, ABOUT 0.5 AIR MILE NNE OF CONFLUENCE OF BRUSHY CANYON AND IOWA CANYON.

Detailed Location: MAPPED AS 2 POLYGONS ACCORDING TO USFS DIGITAL DATA, IN THE NE 1/4 OF THE SE 1/4 OF SECTION 29.

Ecological:

General: ABOUT 95 PLANTS OBSERVED IN EASTERN POLYGON IN 2013. 80 PLANTS IN WESTERN POLYGON AND 15 PLANTS IN EASTERN POLYGON IN 2016. ALL PLANTS SEEN IN THIS AREA BY PRESTON IN 2017 WERE C. POMERIDIANUM; ID OF THIS OCCURRENCE IS QUESTIONABLE.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	122	Map Index: A3639	EO Index: 105274	Element Last Seen:	2015-07-20
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-07-20
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-02-07

Quad Summary: Slate Mtn. (3812076)

County Summary: El Dorado

Lat/Long:	38.82574 / -120.68799	Accuracy:	specific area
UTM:	Zone-10 N4299979 E700703	Elevation (ft):	3600
PLSS:	T11N, R12E, Sec. 6, SW (M)	Acres:	20.0

Location: SLATE MOUNTAIN; ABOUT 2.5 AIR MILES NORTH OF SLAB CREEK RESERVOIR.
Detailed Location: MAPPED AS 6 POLYGONS BY CNDDDB BASED ON USFS DIGITAL DATA, IN PORTIONS OF SECTIONS 1, 6 & 7.
Ecological: ALONG TRAILS AND ON ROCKY SLOPES WITH ARCTOSTAPHYLOS VISCIDA.
General: ABOUT 275 PLANTS OBSERVED IN 2015. SURVEYS WERE LATE IN SEASON; LIKELY MORE PLANTS IN AREA.
Owner/Manager: USFS-ELDORADO NF, PVT?

Occurrence No.	123	Map Index: A3641	EO Index: 105276	Element Last Seen:	2015-07-20
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-07-20
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-02-07

Quad Summary: Slate Mtn. (3812076)

County Summary: El Dorado

Lat/Long:	38.83436 / -120.71567	Accuracy:	specific area
UTM:	Zone-10 N4300874 E698276	Elevation (ft):	2800
PLSS:	T11N, R11E, Sec. 2, NE (M)	Acres:	1.0

Location: ABOUT 1.8 AIR MILES NW OF SUMMIT OF SLATE MOUNTAIN, EAST OF WHALER CREEK AND JUST NORTH OF FOREST RD 12N70.
Detailed Location: MAPPED BY CNDDDB FROM USFS DIGITAL DATA, IN THE NORTH 1/2 OF THE NE 1/4 OF SECTION 2.
Ecological:
General: 7 PLANTS OBSERVED IN 2015.
Owner/Manager: USFS-ELDORADO NF

Occurrence No.	124	Map Index: A3643	EO Index: 105278	Element Last Seen:	2015-07-20
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-07-20
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-02-08

Quad Summary: Slate Mtn. (3812076)

County Summary: El Dorado

Lat/Long:	38.83699 / -120.72027	Accuracy:	specific area
UTM:	Zone-10 N4301157 E697869	Elevation (ft):	2560
PLSS:	T11N, R11E, Sec. 2, NW (M)	Acres:	1.0

Location: ABOUT 2.1 AIR MILES NW OF SUMMIT OF SLATE MOUNTAIN, JUST EAST OF WHALER CREEK.
Detailed Location: MAPPED BY CNDDDB FROM USFS DIGITAL DATA, IN THE NE 1/4 OF THE NW 1/4 OF SECTION 2.
Ecological:
General: 5 PLANTS OBSERVED IN 2015, IN TRAIL SCHEDULED TO BE DECOMMISSIONED.
Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	125	Map Index: A3644	EO Index: 105279	Element Last Seen:	2015-07-06
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-07-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-02-08
Quad Summary:	Slate Mtn. (3812076)				
County Summary:	El Dorado				
Lat/Long:	38.84643 / -120.69948		Accuracy:	specific area	
UTM:	Zone-10 N4302250 E699648		Elevation (ft):	3110	
PLSS:	T12N, R11E, Sec. 36, NE (M)		Acres:	2.0	
Location:	ABOUT 1.25 AIR MILES WNW OF SOAPWEED, AT JUNCTION BETWEEN FOREST RD 12N70 AND RD 12N75.				
Detailed Location:	MAPPED BY CNDDDB FROM USFS DIGITAL DATA, IN THE SW 1/4 OF THE NE 1/4 OF SECTION 36.				
Ecological:	ALONG TRAIL.				
General:	22 PLANTS OBSERVED IN 2015, ALONG TRAIL TO BE DECOMMISSIONED.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	126	Map Index: A3645	EO Index: 105280	Element Last Seen:	2016-09-14
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-09-14
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-12-14
Quad Summary:	Slate Mtn. (3812076)				
County Summary:	El Dorado				
Lat/Long:	38.86167 / -120.73415		Accuracy:	specific area	
UTM:	Zone-10 N4303866 E696597		Elevation (ft):	3000	
PLSS:	T12N, R11E, Sec. 27, E (M)		Acres:	12.0	
Location:	ROCK CREEK TRAILS SYSTEM AT NORTH END OF SLATE MOUNTAINS, ABOUT 1.2 TO 1.6 AIR MILES SOUTH OF SUGARLOAF.				
Detailed Location:	8 POLYGONS MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE EAST 1/2 OF SECTION 27 AND THE SW 1/4 OF THE NW 1/4 OF SECTION 26.				
Ecological:					
General:	21 PLANTS OBSERVED IN SOUTHERNMOST POLYGON IN 2015. 46+ PLANTS OBSERVED IN THE REMAINDER OF THE OCCURRENCE IN 2016.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	127	Map Index: A3647	EO Index: 105282	Element Last Seen:	2015-07-09
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-07-09
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-02-08
Quad Summary:	Slate Mtn. (3812076)				
County Summary:	El Dorado				
Lat/Long:	38.86417 / -120.71645		Accuracy:	specific area	
UTM:	Zone-10 N4304182 E698125		Elevation (ft):	3115	
PLSS:	T12N, R11E, Sec. 26, NE (M)		Acres:	1.0	
Location:	ABOUT 1.7 AIR MILES SE OF SUGARLOAF NEAR HEAD OF BALLARAT CANYON, JUST WEST OF FOREST RD 12N82C.				
Detailed Location:	MAPPED BY CNDDDB FROM USFS DIGITAL DATA, IN THE NW 1/4 OF THE NE 1/4 OF SECTION 26.				
Ecological:					
General:	4 FRUITING PLANTS OBSERVED IN 2015. SURVEY WAS LATE IN SEASON; LIKELY MORE PLANTS IN AREA.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	128	Map Index: A3648	EO Index: 105283	Element Last Seen:	2015-07-09
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-07-09
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-02-08
Quad Summary:	Slate Mtn. (3812076)				
County Summary:	El Dorado				
Lat/Long:	38.86635 / -120.72299		Accuracy:	specific area	
UTM:	Zone-10 N4304410 E697552		Elevation (ft):	3120	
PLSS:	T12N, R11E, Sec. 26, NW (M)		Acres:	2.0	
Location:	ABOUT 1.3 AIR MILES SE OF SUGARLOAF NEAR HEAD OF BALLARAT CANYON, JUST SE OF FOREST RD 12N82.				
Detailed Location:	MAPPED BY CNDDDB FROM USFS DIGITAL DATA, IN THE NE 1/4 OF THE NW 1/4 OF SECTION 26.				
Ecological:					
General:	5 FRUITING PLANTS OBSERVED IN 2015. SURVEY WAS LATE IN SEASON; LIKELY MORE PLANTS IN AREA.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	129	Map Index: A3649	EO Index: 105285	Element Last Seen:	2015-07-16
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2015-07-16
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-02-08
Quad Summary:	Tunnel Hill (3812086)				
County Summary:	El Dorado				
Lat/Long:	38.88575 / -120.7181		Accuracy:	specific area	
UTM:	Zone-10 N4306574 E697922		Elevation (ft):	3300	
PLSS:	T12N, R11E, Sec. 14, S (M)		Acres:	1.0	
Location:	JUST WEST OF FOREST RD 12N70, ABOUT 1 AIR MILE ENE OF SUGARLOAF PEAK, NW OF BALD MOUNTAIN CANYON.				
Detailed Location:	MAPPED BY CNDDDB FROM USFS DIGITAL DATA, IN THE SOUTH HALF OF SECTION 14.				
Ecological:					
General:	7 FRUITING PLANTS OBSERVED IN 2015. SURVEY WAS LATE IN SEASON; LIKELY MORE PLANTS IN AREA.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	130	Map Index: A3650	EO Index: 105286	Element Last Seen:	2016-09-13
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-09-13
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-12-14
Quad Summary:	Tunnel Hill (3812086), Georgetown (3812087)				
County Summary:	El Dorado				
Lat/Long:	38.88592 / -120.75334		Accuracy:	specific area	
UTM:	Zone-10 N4306517 E694865		Elevation (ft):	2900	
PLSS:	T12N, R11E, Sec. 16, SE (M)		Acres:	6.0	
Location:	ABOUT 0.7 TO 1.2 AIR MILE WNW OF SUGARLOAF, SOUTH OF LITTLE SILVER CREEK.				
Detailed Location:	7 POLYGONS MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE SE 1/4 OF SECTION 16.				
Ecological:	DISTURBED. FOUND ALONG BOTH SIDES OF TRAIL.				
General:	1-2 PLANTS OBSERVED IN EASTERNMOST POLYGON IN 2004. 71+ PLANTS OBSERVED IN THE REMAINDER OF THE OCCURRENCE IN 2016.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	131	Map Index:	A3651	EO Index:	105287	Element Last Seen:	2016-06-29
Occ. Rank:	Fair	Presence:	Presumed Extant	Site Last Seen:		2016-06-29	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-12-14	
Quad Summary:	Tunnel Hill (3812086)						
County Summary:	El Dorado						
Lat/Long:	38.90371 / -120.70499	Accuracy:	specific area				
UTM:	Zone-10 N4308595 E699009	Elevation (ft):	4580				
PLSS:	T12N, R11E, Sec. 12, W (M)	Acres:	3.0				
Location:	BALD MOUNTAIN; ABOUT 1.2 AIR MILES SW OF QUINTETTE, ELDORADO NATIONAL FOREST.						
Detailed Location:	MAPPED BY CNDDDB AS 3 POLYGONS IN THE WEST HALF OF SECTION 12. NORTH AND SOUTH POLYGON BASED ON USFS DIGITAL DATA; MIDDLE POLYGON BASED ON 2016 QUINN FIELD SURVEY.						
Ecological:	NORTHERN POPULATION GROWING ON ROCKY OUTCROP AREA NEAR RADIO TOWER; SOUTHERN POPULATION GROWING ON TRAIL. MIDDLE POPULATION PARTIALLY WITHIN FENCED COMMUNICATION FACILITY IN ROCKY AREA, AND PARTIALLY IN CLEARED AREA OUTSIDE FACILITY.						
General:	IN 2015, 38 PLANTS IN NORTH POLYGON AND 30 PLANTS IN SOUTH POLYGON. ABOUT 30 PLANTS IN MIDDLE POLYGON IN 2016.						
Owner/Manager:	USFS-ELDORADO NF						
Occurrence No.	147	Map Index:	A3715	EO Index:	105360	Element Last Seen:	2016-06-09
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2016-06-09	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2017-02-10	
Quad Summary:	Robbs Peak (3812084)						
County Summary:	El Dorado						
Lat/Long:	38.89916 / -120.39005	Accuracy:	80 meters				
UTM:	Zone-10 N4308824 E726337	Elevation (ft):	5270				
PLSS:	T12N, R14E, Sec. 10, SE (M)	Acres:	5.0				
Location:	ABOUT 0.8 AIR MILE NORTH OF NORTH SHORE OF UNION VALLEY RESERVOIR AND 1.9 AIR MILES SSE OF ROBBS PEAK.						
Detailed Location:	MAPPED FROM 2016 SPI COORDINATES, IN THE NORTH 1/2 OF THE SE 1/4 OF SECTION 10.						
Ecological:	OPENING ON WEST SIDE OF DIRT ROAD. FLAT AREA WITH 0% CANOPY COVER WITHIN MIXED CONIFER FOREST. ASSOCIATES INCLUDE MIMULUS TORREYI, LEPTOSIPHON CILIATUS, CEANOTHUS CORDULATUS, ARCTOSTAPHYLOS PATULA, GAYOPHYTUM DIFFUSA, CHIMAPHILA, ETC.						
General:	30 PLANTS OBSERVED IN 2016.						
Owner/Manager:	PVT-SIERRA PACIFIC						



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	148	Map Index: B1658	EO Index: 113572	Element Last Seen:	2016-06-22
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-06-22
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-12-14
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.86609 / -120.40996		Accuracy:	specific area	
UTM:	Zone-10 N4305105 E724715		Elevation (ft):	4845	
PLSS:	T12N, R14E, Sec. 21, SE (M)		Acres:	1.0	
Location:	EASTERN SHORE OF UNION VALLEY RESERVOIR, ABOUT 1.6 AIR MILE NORTH OF BIG HILL.				
Detailed Location:	NEAR SHORE APPROXIMATELY 200 FEET WEST OF PENN SPUR H. MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE SOUTH 1/2 OF THE SE 1/4 OF SECTION 21.				
Ecological:					
General:	1 PLANT OBSERVED IN 2016. ID OF THIS POPULATION NEEDS TO BE VERIFIED.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	149	Map Index: B1659	EO Index: 113573	Element Last Seen:	2016-06-10
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-06-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-12-14
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.84318 / -120.53433		Accuracy:	specific area	
UTM:	Zone-10 N4302263 E713991		Elevation (ft):	3800	
PLSS:	T12N, R13E, Sec. 33, W (M)		Acres:	11.0	
Location:	ALONG JAYBIRD SPRING ROAD JUST E OF SILVER CREEK AND S OF BIG BEND, 0.4 TO 0.7 AIR MILE N OF JAYBIRD POWER HOUSE.				
Detailed Location:	4 POLYGONS MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE WEST 1/2 OF SECTION 33.				
Ecological:					
General:	2016 POPULATION NUMBERS FOR POLYGONS FROM SW TO NE: 75, 700, 50, AND 50 PLANTS SEEN.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	150	Map Index: B1660	EO Index: 113574	Element Last Seen:	2016-06-10
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-06-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-12-14
Quad Summary:	Pollock Pines (3812075)				
County Summary:	El Dorado				
Lat/Long:	38.83123 / -120.5341		Accuracy:	specific area	
UTM:	Zone-10 N4300938 E714047		Elevation (ft):	3000	
PLSS:	T11N, R13E, Sec. 4, NW (M)		Acres:	11.0	
Location:	ALONG ACCESS ROAD SOUTH OF CAMINO POWERHOUSE, BETWEEN MOUTH OF JAY BIRD CANYON AND MOUTH OF ROUND TENT CANYON.				
Detailed Location:	MAPPED ACCORDING TO USFS DIGITAL DATA, WITHIN THE NW 1/4 OF SECTION 4.				
Ecological:					
General:	20 PLANTS OBSERVED IN 2016. A 1994 GREENHOUSE OBSERVATION FROM "JAYBIRD POWERHOUSE" IS ALSO ATTRIBUTED TO THIS SITE.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	151	Map Index: B1661	EO Index: 113575	Element Last Seen:	2016-06-01
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-06-01
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-12-14

Quad Summary: Slate Mtn. (3812076)

County Summary: El Dorado

Lat/Long:	38.7666 / -120.66217	Accuracy:	specific area
UTM:	Zone-10 N4293472 E703113	Elevation (ft):	3011
PLSS:	T11N, R12E, Sec. 29, SE (M)	Acres:	1.0

Location: EASTERN EDGE OF TRANSMISSION LINE ROW ~1/2 MILE SOUTHWEST OF CABLE ROAD, NORTHWEST OF THE MOUTH OF IOWA CANYON.

Detailed Location: MAPPED ACCORDING TO USFS DIGITAL DATA, WITHIN THE SW 1/4 OF THE SE 1/4 OF SECTION 29.

Ecological:

General: 40 PLANTS OBSERVED IN 2016. APPEARS TO BE CO-MINGLING WITH CHLOROGALUM POMERIDIANUM - NEEDS VERIFICATION.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	152	Map Index: B1663	EO Index: 113577	Element Last Seen:	2016-08-31
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-08-31
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-12-14

Quad Summary: Slate Mtn. (3812076)

County Summary: El Dorado

Lat/Long:	38.82527 / -120.6643	Accuracy:	specific area
UTM:	Zone-10 N4299979 E702761	Elevation (ft):	3300
PLSS:	T11N, R12E, Sec. 5, SW (M)	Acres:	2.0

Location: ALONG USFS ROAD 11E49/12N60B, ABOUT 0.9 AND 1.1 AIR MILES ENE OF THE SUMMIT OF SLATE MOUNTAIN.

Detailed Location: 2 POLYGONS MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE SOUTH 1/2 OF THE SW 1/4 OF SECTION 5.

Ecological:

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 2016.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	153	Map Index: B1665	EO Index: 113580	Element Last Seen:	2016-04-25
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-04-25
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-12-14

Quad Summary: Slate Mtn. (3812076)

County Summary: El Dorado

Lat/Long:	38.83971 / -120.73823	Accuracy:	specific area
UTM:	Zone-10 N4301420 E696302	Elevation (ft):	2655
PLSS:	T12N, R11E, Sec. 34, S (M)	Acres:	4.0

Location: WESTERN END OF USFS RD 12N83A, ABOUT 3.1 AIR MILES WNW OF THE SUMMIT OF SLATE MOUNTAIN.

Detailed Location: ROCK CREEK TRAILS SYSTEM. MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE SOUTH 1/2 OF SECTION 34.

Ecological:

General: 100+ PLANTS IN ROSETTE STAGE OBSERVED IN 2016.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.:	154	Map Index:	B1667	EO Index:	113581	Element Last Seen:	2016-06-02
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		Record Last Updated:	2018-12-14
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				

Quad Summary: Garden Valley (3812077)
County Summary: El Dorado

Lat/Long:	38.84822 / -120.77439	Accuracy:	specific area
UTM:	Zone-10 N4302287 E693141	Elevation (ft):	2408
PLSS:	T12N, R11E, Sec. 32, NE (M)	Acres:	1.0

Location: JUST WEST OF THE JUNCTION OF USFS ROADS 12N80 AND 12N80G, ABOUT 1.25 AIR MILES SOUTH OF THE MOUTH OF HOG CANYON.
Detailed Location: MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE SW 1/4 OF THE NE 1/4 OF SECTION 32.
Ecological:
General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 2016.
Owner/Manager: USFS-ELDORADO NF

Occurrence No.:	155	Map Index:	B1669	EO Index:	113583	Element Last Seen:	2016-08-17
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		Record Last Updated:	2018-12-14
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				

Quad Summary: Tunnel Hill (3812086)
County Summary: El Dorado

Lat/Long:	38.97674 / -120.68973	Accuracy:	specific area
UTM:	Zone-10 N4316734 E700127	Elevation (ft):	3000
PLSS:	T13N, R11E, Sec. 13, E (M)	Acres:	2.0

Location: WESTERN END OF NEVADA POINT TRAIL JUST EAST OF RUBICON ROAD, RIDGELINE ABOVE RUBICON RIVER.
Detailed Location: 2 POLYGONS MAPPED ACCORDING TO USFS DIGITAL DATA, ON THE EASTERN BORDER OF SECTION 13.
Ecological:
General: 3 SEEDING PLANTS SEEN IN NORTHERN POLYGON AND 1 SEEDING PLANT IN SOUTHERN POLYGON IN 2016.
Owner/Manager: USFS-ELDORADO NF

Poa sierrae **Element Code:** PMPOA4Z310

Sierra blue grass

Listing Status:	Federal: None	CNDDB Element Ranks:	Global: G3
	State: None		State: S3
	Other: Rare Plant Rank - 1B.3, USFS_S-Sensitive		

Habitat: **General:** LOWER MONTANE CONIFEROUS FOREST.
Micro: SHADY, MOIST, ROCKY SLOPES. OFTEN IN CANYONS. 365-1915 M.



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	2	Map Index: 81877	EO Index: 82849	Element Last Seen:	2015-06-23
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2015-06-23
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-02-08
Quad Summary:	Devil Peak (3812085)				
County Summary:	El Dorado				
Lat/Long:	38.91257 / -120.54783		Accuracy:	specific area	
UTM:	Zone-10 N4309933 E712613		Elevation (ft):	4000	
PLSS:	T12N, R13E, Sec. 5 (M)		Acres:	41.0	
Location:	JUST NORTH OF LEONARDI SPRING, SOUTH SIDE OF RUBICON RIVER CANYON, EAST OF GEORGETOWN.				
Detailed Location:	ALONG OLD LOGGING ROAD AND 10 FEET FROM AN AREA THAT HAD BEEN RECENTLY THINNED. MAPPED BY CNDDDB AS 5 POLYGONS ACCORDING TO USFS DIGITAL DATA. 1970 HOWELL COLLECTION FROM "IN RUBICON RIVER CYN, NNE OF LEONARDI SPRING" ATTRIBUTED HERE.				
Ecological:	GROWING ON SLOPES WITH MOSS-COVERED ROCKS OR THICK DUFF LAYER. IN THE UNDERSTORY OF PSEUDOTSUGA MENZIESII, ABIES CONCOLOR, CALOCEDRUS DECURRENS, AND QUERCUS. MOSTLY FOUND IN AREAS WITH LITTLE OR NO VEGETATION. BURNED IN 2014.				
General:	3 WESTERN POLYGONS: IN 2012, PLANTS GROWING IN SMALL PATCHES TO EXTENSIVE STANDS, ESTIMATED TO COVER A TOTAL OF 2200 SQUARE FEET WITH MORE POTENTIAL HABITAT IN AREA. 2 EASTERN POLYGONS: 50+ PLANTS IN 2015.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	18	Map Index: 93594	EO Index: 94720	Element Last Seen:	2015-06-25
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2015-09-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-02-16
Quad Summary:	Robbs Peak (3812084)				
County Summary:	El Dorado, Placer				
Lat/Long:	38.95886 / -120.48351		Accuracy:	specific area	
UTM:	Zone-10 N4315223 E718048		Elevation (ft):	3500	
PLSS:	T13N, R13E, Sec. 23, SE (M)		Acres:	33.0	
Location:	BOTH SIDES OF THE RUBICON RIVER NEAR HISTORIC ELLICOTT BRIDGE, APPROXIMATELY 1 AIR MILE SW OF THE S FORK RUBICON RIVER.				
Detailed Location:	MAPPED BY CNDDDB AS 5 POLYGONS ACCORDING TO 2012 LO DIGITAL DATA, 2013 BLACKBURN COORDINATES, AND 2015 ELDORADO NF DIGITAL DATA. MOSTLY IN THE SE 1/4 OF SECTION 23 AND THE NW 1/4 OF THE NE 1/4 OF SECTION 26.				
Ecological:	GROWING ON SLOPES WITH MOSS-COVERED ROCKS OR THICK DUFF LAYER. IN THE UNDERSTORY OF PSEUDOTSUGA MENZIESII, CALOCEDRUS DECURRENS, AND QUERCUS KELLOGGII FOREST. MOSTLY FOUND IN AREAS WITH LITTLE OR NO VEGETATION. NW ASPECT. BURNED IN 2014.				
General:	PLANT GROWING IN SMALL TO MEDIUM PATCHES WITH TOTAL AREA OF ~212 SQ FT IN 2012; MORE POTENTIAL HABITAT NEARBY. 300+ PLANTS IN 2013. 2015: 730+ PLANTS IN FOUR S POLYGONS (6/2015); 0 PLANTS IN N POLYGON DURING LATE-SEASON VISIT (9/2015).				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	19	Map Index: 93595	EO Index: 94721	Element Last Seen:	2015-06-22
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2015-06-22
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-02-08
Quad Summary:	Devil Peak (3812085)				
County Summary:	El Dorado				
Lat/Long:	38.90803 / -120.55486		Accuracy:	specific area	
UTM:	Zone-10 N4309414 E712017		Elevation (ft):	4545	
PLSS:	T12N, R13E, Sec. 7, NE (M)		Acres:	1.0	
Location:	APPROXIMATELY 0.45 AIR MILE WSW OF LEONARDI SPRING, SOUTH OF THE RUBICON RIVER.				
Detailed Location:	MAPPED BY CNDDDB ACCORDING TO 2012 LO DIGITAL DATA AND 2015 ELDORADO NF DIGITAL DATA, IN THE NE 1/4 OF THE NE 1/4 OF SECTION 7.				
Ecological:	GROWING ON A SLOPE WITH A THICK OAK DUFF LAYER IN QUERCUS CHRYSOLEPIS WOODLAND. WITH PHACELIA STEBBINSI. ASPECT IS NW, SLOPE IS >100%, LIGHT EXPOSURE IS PART-SHADE, SOIL MOISTURE IS MESIC AND SOIL TYPE IS VOLCANIC.				
General:	IN 2012, PLANTS COVERED AN ESTIMATED AREA OF 50 SQUARE FEET. 20 PLANTS OBSERVED IN 2015.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	20	Map Index: 93596	EO Index: 94722	Element Last Seen:	2012-08-22
Occ. Rank:	Poor		Presence: Presumed Extant	Site Last Seen:	2012-08-22
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2014-08-27
Quad Summary:	Devil Peak (3812085)				
County Summary:	Placer				
Lat/Long:	38.92171 / -120.56942		Accuracy:	specific area	
UTM:	Zone-10 N4310898 E710712		Elevation (ft):	3800	
PLSS:	T12N, R13E, Sec. 06, NW (M)		Acres:	13.0	
Location:	APPROXIMATELY 0.6 TO 0.9 AIR MILE SSE OF PIGEON ROOST MINE, NORTH OF THE RUBICON RIVER.				
Detailed Location:	MAPPED BY CNDDDB AS 4 POLYGONS ACCORDING TO 2012 LO DIGITAL DATA, IN THE NW 1/4 OF SECTION 6.				
Ecological:	GROWING ON SLOPES WITH THIN TO THICK DUFF LAYER. IN THE UNDERSTORY OF PSEUDOTSUGA MENZIESII AND ACER MACROPHYLLUM FOREST. ASSOCIATED WITH PROSARTES HOOKERI, VIOLA LOBATA, ASYNEUMA PRENANTHOIDES, TOXICODENDRON DIVERSILOBUM, MOSS, ETC.				
General:	IN 2012, PLANTS COVERED AN ESTIMATED AREA OF 55 SQUARE FEET. MOST PATCHES ARE VERY SMALL. THERE IS MORE POTENTIAL HABITAT BELOW THE OCCURRENCE.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	21	Map Index: 93597	EO Index: 94723	Element Last Seen:	2012-09-11
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	2012-09-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2014-08-27
Quad Summary:	Devil Peak (3812085), Greek Store (3912015)				
County Summary:	Placer				
Lat/Long:	38.99610 / -120.55813		Accuracy:	specific area	
UTM:	Zone-10 N4319180 E711470		Elevation (ft):	3800	
PLSS:	T13N, R13E, Sec. 08 (M)		Acres:	93.0	
Location:	VICINITY OF RAMSEY CROSSING ALONG THE WALLACE SCHLEIN TRAIL, SOUTH SIDE OF LONG CANYON.				
Detailed Location:	MAPPED BY CNDDDB AS 11 POLYGONS ACCORDING TO 2012 LO DIGITAL DATA.				
Ecological:	GROWING ON SLOPES WITH MOSS-COVERED ROCKS OR THICK DUFF LAYER. IN THE UNDERSTORY OF PSEUDOTSUGA MENZIESII, CALOCEDRUS DECURRENS, QUERCUS KELLOGGII, AND Q. CHRYSOLEPIS FOREST. USUALLY FOUND GROWING IN AREAS WITH LITTLE OR NO VEGETATION.				
General:	IN 2012, PLANTS WERE GROWING IN SMALL PATCHES TO VERY EXTENSIVE STANDS COVERING 11,550 SQUARE FEET. MORE POTENTIAL HABITAT EXISTS IN THE AREA.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	22	Map Index: 93598	EO Index: 94724	Element Last Seen:	2012-09-05
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2012-09-05
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2014-08-27
Quad Summary:	Tunnel Hill (3812086)				
County Summary:	Placer				
Lat/Long:	38.98871 / -120.63388		Accuracy:	specific area	
UTM:	Zone-10 N4318187 E704930		Elevation (ft):	3600	
PLSS:	T13N, R12E, Sec. 10, SW (M)		Acres:	3.0	
Location:	JUST SW OF LYNCHBURG HILL, BETWEEN LONG CANYON AND RALSTON RIDGE.				
Detailed Location:	MAPPED BY CNDDDB ACCORDING TO 2012 LO DIGITAL DATA ALONG THE SECTION LINE BETWEEN THE NE 1/4 OF THE SE 1/4 OF SECTION 9 AND THE NW 1/4 OF THE SW 1/4 OF SECTION 10.				
Ecological:	GROWING ON SLOPES WITH MOSS-COVERED ROCKS OR THICK DUFF LAYER. IN THE UNDERSTORY OF PSEUDOTSUGA MENZIESII AND QUERCUS KELLOGGII FOREST. MOSTLY FOUND IN AREAS WITH LITTLE OR NO VEGETATION. ASSOCIATED WITH TOXICODENDRON, GALIUM, ETC.				
General:	IN 2012, PLANTS WERE GROWING IN SMALL TO MEDIUM SIZED PATCHES COVERING 180 SQUARE FEET. MORE POTENTIAL HABITAT EXISTS BELOW THE OCCURRENCE.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	38	Map Index:	A8333	EO Index:	110118	Element Last Seen:	2016-04-12
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2016-04-12	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-02-05	
Quad Summary:	Robbs Peak (3812084)						
County Summary:	El Dorado						
Lat/Long:	38.93768 / -120.49379			Accuracy:	specific area		
UTM:	Zone-10 N4312847 E717222			Elevation (ft):	4245		
PLSS:	T13N, R13E, Sec. 35, NW (M)			Acres:	3.0		
Location:	ALONG ELEVEN PINES ROAD [RD 14N08] ABOUT 1.7 AIR MILES SSW OF ELLICOTT BRIDGE, AND 0.3 AIR MILE S OF THE RUBICON RIVER.						
Detailed Location:	ABOUT 100 FEET UPSLOPE FROM ROAD. MAPPED BY CNDDDB BASED ON ELDORADO NF DIGITAL DATA, IN THE NE 1/4 OF THE NW 1/4 OF SECTION 35.						
Ecological:	GRANITE OUTCROP IN PINE/OAK FOREST. NNW ASPECT. SITE BURNED AT HIGH INTENSITY IN 2014 KING FIRE.						
General:	100S OF PLANTS OBSERVED IN 2015 & 2016. ELDORADO NF POPULATION #15-01.						
Owner/Manager:	USFS-ELDORADO NF						

Occurrence No.	39	Map Index:	A8337	EO Index:	110120	Element Last Seen:	2016-04-13
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2016-04-13	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-02-05	
Quad Summary:	Devil Peak (3812085)						
County Summary:	El Dorado						
Lat/Long:	38.92509 / -120.52447			Accuracy:	specific area		
UTM:	Zone-10 N4311378 E714601			Elevation (ft):	4380		
PLSS:	T13N, R13E, Sec. 33, SE (M)			Acres:	6.0		
Location:	SOUTH OF RUBICON RIVER AND 0.3-0.5 AIR MILE NNW OF VAUGHN CABIN, ABOUT 1.6 AIR MILES NE OF LEONARDI SPRING.						
Detailed Location:	MAPPED BY CNDDDB BASED ON ELDORADO NF DIGITAL DATA, IN THE SW 1/4 OF THE SE 1/4 OF SECTION 33.						
Ecological:	BURNED OAK-CONIFER FOREST, WITH MANY RESPROUTING OAKS AND SYMPHYOTRICHUM SP. NORTH ASPECT. SITE BURNED IN 2014 KING FIRE.						
General:	100 PLANTS OBSERVED IN EACH POLYGON IN 2015. 100 PLANTS IN NW POLYGON IN 2016. ELDORADO NF POPULATION #16.						
Owner/Manager:	USFS-ELDORADO NF						

Botrychium montanum			Element Code: PPOPH010K0	
western goblin				
Listing Status:	Federal:	None	CNDDDB Element Ranks:	Global: G3
	State:	None		State: S2
	Other:	Rare Plant Rank - 2B.1, USFS_S-Sensitive		
Habitat:	General:	LOWER MONTANE CONIFEROUS FOREST, UPPER MONTANE CONIFEROUS FOREST, MEADOWS AND SEEPS.		
	Micro:	CREEKBANKS IN OLD-GROWTH FOREST. 1430-2430 M.		



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	24	Map Index:	91269	EO Index:	92317	Element Last Seen:	2015-08-11
Occ. Rank:	Fair	Presence:	Presumed Extant	Site Last Seen:		2015-08-11	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-03-02	

Quad Summary: Loon Lake (3812083)

County Summary: El Dorado

Lat/Long:	38.96092 / -120.36722	Accuracy:	specific area
UTM:	Zone-10 N4315736 E728118	Elevation (ft):	5640
PLSS:	T13N, R14E, Sec. 23, NE (M)	Acres:	1.0

Location: SIDE DRAINAGE OF THE SOUTH FORK RUBICON RIVER NEAR ICE HOUSE ROAD, APPROXIMATELY 1 AIR MILE WEST OF STONE CELLAR.

Detailed Location: FROM INTERSECTION OF ICE HOUSE RD AND WENTWORTH SPRINGS RD, GO NORTH ON ICE HOUSE RD. IN LESS THAN 1.5 MI, TURN RIGHT ON ROAD 13N20. PARK IN FIRST LARGE PULLOVER. MAPPED IN THE SE 1/4 OF THE NE 1/4 OF SECTION 23.

Ecological: GROWING ALONG A PERENNIAL AND EPHEMERAL STRETCH OF A NARROW DRAINAGE. FOREST IS DOMINATED BY ABIES CONCOLOR. 2 PLANTS FOUND IN THE BOTTOM OF THE EPHEMERAL SECTION OF THE DRAINAGE IN SANDY GRAVELLY SOIL. GENTLE SLOPE, SW ASPECT, MOIST SOIL.

General: 15-16 PLANTS OBSERVED IN 2012. SITE REVISITED IN 2015; UNKNOWN NUMBER OF PLANTS SEEN. SITE IS FLAGGED FOR AVOIDANCE. THE RARE BOTRYCHIUM CRENLATUM AND B. MINGANENSE OCCUR NEARBY. ELDORADO NF POPULATION #BOMO-001.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	64	Map Index:	B0422	EO Index:	112285	Element Last Seen:	2016-08-02
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2016-08-02	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-08-20	

Quad Summary: Leek Spring Hill (3812063)

County Summary: El Dorado

Lat/Long:	38.69687 / -120.33668	Accuracy:	specific area
UTM:	Zone-10 N4286506 E731620	Elevation (ft):	5684
PLSS:	T10N, R15E, Sec. 20, S (M)	Acres:	4.0

Location: APPROXIMATELY 1.1 AIR MILES SOUTHWEST OF MORRISON, ESE OF IRON MOUNTAIN, ELDORADO NATIONAL FOREST.

Detailed Location: NE SIDE OF FOREST SERVICE ROAD 10N44B. MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE SOUTH 1/2 OF SECTION 20.

Ecological: GROWING ALONG BANKS OF PERENNIAL STRETCH OF DRAINAGE AND IN SEEP, OFTEN AT BASE OF TREES OR SAPLINGS. ASSOCIATED WITH LISTERA CONVALLARIOIDES, CIRCAEA ALPINA SSP. PACIFICA, MOSS, VIOLA SP., SENECIO TRIANGULARIS, AND ADENOCAULON BICOLOR.

General: 8 PLANTS OBSERVED IN 2016.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	65	Map Index: B0423	EO Index: 112286	Element Last Seen:	2016-07-19
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-07-19
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-08-20
Quad Summary:	Leek Spring Hill (3812063)				
County Summary:	El Dorado				
Lat/Long:	38.73753 / -120.29071		Accuracy:	specific area	
UTM:	Zone-10 N4291136 E735486		Elevation (ft):	5755	
PLSS:	T10N, R15E, Sec. 10, NE (M)		Acres:	1.0	
Location:	SOUTH SIDE OF BEANVILLE CREEK, APPROXIMATELY 0.75 AIR MILE NNW OF OSO SPRING, ELDORADO NATIONAL FOREST.				
Detailed Location:	MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE NE 1/4 OF THE NE 1/4 OF SECTION 10.				
Ecological:	GROWING IN DENSE DUFF OR MOSS ALONG BANKS OF A NARROW PERENNIAL STREAM BELOW SPRING AND UNDER ALNUS INCANA SSP. TENUIFOLIA UP TO 8 FT AWAY FROM STREAM. IN SHADE AND WET SOIL WITH PECTANTIA SP., CLINTONIA UNIFLORA, VIOLA SP., ETC.				
General:	4 STEMS (ALL WITH SPOROPHORES) OBSERVED IN 2016.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	66	Map Index: B0425	EO Index: 112287	Element Last Seen:	2017-07-24
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2017-07-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-08-20
Quad Summary:	Kyburz (3812073)				
County Summary:	El Dorado				
Lat/Long:	38.81021 / -120.30424		Accuracy:	specific area	
UTM:	Zone-10 N4299168 E734071		Elevation (ft):	6200	
PLSS:	T11N, R15E, Sec. 9, SW (M)		Acres:	2.0	
Location:	TRIBUTARY TO ICE HOUSE RESERVOIR, APPROXIMATELY 1.8 AIR MILES SSW OF WINDMILLER CABIN, ELDORADO NATIONAL FOREST.				
Detailed Location:	2 POLYGONS MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE EAST 1/2 OF THE SW 1/4 OF SECTION 9.				
Ecological:	NORTH ASPECT, WET SOIL, FULL SHADE. ASSOCIATED WITH ABIES CONCOLOR, CALOCEDRUS DECURRENS, GALIUM SPP., ADENOCAULON BICOLOR, SENECIO TRIANGULARIS, VIOLA MACLOSKEYI, AND MOSS SPECIES.				
General:	19 PLANTS OBSERVED IN NORTHERN POLYGON AND 1 PLANT OBSERVED IN SOUTHERN POLYGON IN 2017.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	67	Map Index: B0426	EO Index: 112288	Element Last Seen:	2017-07-25
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2017-07-25
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-08-20

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.83232 / -120.3693	Accuracy:	specific area
UTM:	Zone-10 N4301458 E728351	Elevation (ft):	5382
PLSS:	T11N, R14E, Sec. 2, NE (M)	Acres:	1.0

Location: ALONG A TRIBUTARY TO JONES FORK SILVER CREEK, APPROXIMATELY 0.7 AIR MILE NNW OF ICE HOUSE DAM, ELDORADO NATIONAL FOREST.

Detailed Location: MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE NE 1/4 OF THE NE 1/4 OF SECTION 2.

Ecological: ADJACENT TO STREAM, GROWING OUT OF LITTER/DUFF, NOT EXTREMELY DIVERSE. SOUTHWEST ASPECT, WET SOIL, FULL SHADE. ASSOCIATED WITH CORNUS SP., CALOEDRUS DECURRENS, FRAGERIA VESCA, ASARUM LEMMONII, GALIUM SP., AND ASTER SP.

General: 1 PLANT OBSERVED IN 2017.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	68	Map Index: B0427	EO Index: 112289	Element Last Seen:	2017-08-11
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2017-08-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-08-20

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.83605 / -120.34678	Accuracy:	specific area
UTM:	Zone-10 N4301929 E730294	Elevation (ft):	5236
PLSS:	T11N, R15E, Sec. 6, NW (M)	Acres:	1.0

Location: NORTH OF ICE HOUSE RESERVOIR, ~0.27 AIR MILE N OF WRIGHTS LAKE RD, ~1.97 AIR MI ENE OF INTERSECTION WITH ICE HOUSE RD.

Detailed Location: MAPPED ACCORDING TO 2017 SPI COORDINATES, ON THE BORDER BETWEEN THE SW 1/4 OF THE SW 1/4 OF SECTION 31 AND THE NW 1/4 OF THE NW 1/4 OF SECTION 6.

Ecological: LARGE MEADOW COMPLEX ON THE EDGE OF A SMALL ISLAND OF CALOEDRUS DECURRENS WITHIN THE MEADOW. GROWING IN THE WET TRANSITION ZONE FROM MOSSY, LOW, CAREX AMPLIFOLIA DOMINATED MEADOW EDGE TO DRIER CEDARS. ASSOCIATED W/ GLYCERIA STRIATA, ETC.

General: 16 BOTRYCHIUM PLANTS OBSERVED IN 2017; THIS IS A MIXTURE OF B. MONTANUM, B. MINGANENSE, B. ASCENDENS, AND B. CRENULATUM, TOTAL NUMBER OF INDIVIDUALS FOR EACH SPECIES WAS NOT TAKEN DUE TO DIFFICULTY OF ID OUT IN THE FIELD.

Owner/Manager: PVT-SIERRA PACIFIC



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	69	Map Index:	A6346	EO Index:	112290	Element Last Seen:	2016-07-06
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2016-07-06	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-08-20	

Quad Summary: Loon Lake (3812083)

County Summary: El Dorado

Lat/Long:	38.98101 / -120.37356	Accuracy:	specific area
UTM:	Zone-10 N4317950 E727506	Elevation (ft):	5700
PLSS:	T13N, R14E, Sec. 11, SE (M)	Acres:	1.0

Location: ABOUT 0.6 AIR MILE SOUTH OF FRANCIS COW CAMP, AND 1.5 AIR MILES NE OF GERLE CREEK RESERVOIR DAM.

Detailed Location: MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE SW 1/4 OF THE SE 1/4 OF SECTION 11.

Ecological: GROWING IN MOIST BARE SOIL OF A TEMPORAL STREAMBED, UNDER SHADE OF CALOCEDRUS DECURRENS. ASSOCIATED WITH SENECIO TRIANGULARIS, QUERCUS KELLOGGII, BOTRYCHUM MULTIFIDUM, B. CRENULATUM, VERATRUM CALIFORNICUM, LILIUM PERVUM, ETC.

General: 7 PLANTS FOUND WITHIN A 9 SQ METER AREA IN 2016.

Owner/Manager: USFS-ELDORADO NF

Botrychium crenulatum **Element Code:** PPOPH010L0
 scalloped moonwort

Listing Status:	Federal: None	CNDDB Element Ranks:	Global: G4
	State: None		State: S3
	Other: Rare Plant Rank - 2B.2, USFS_S-Sensitive		

Habitat: **General:** BOGS AND FENS, MEADOWS AND SEEPS, UPPER MONTANE CONIFEROUS FOREST, LOWER MONTANE CONIFEROUS FOREST, MARSHES AND SWAMPS.

Micro: MOIST MEADOWS, FRESHWATER MARSH, AND NEAR CREEKS. 1185-3110 M.

Occurrence No.	50	Map Index:	84446	EO Index:	85476	Element Last Seen:	2017-08-29
Occ. Rank:	Fair	Presence:	Presumed Extant	Site Last Seen:		2017-08-29	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-08-21	

Quad Summary: Loon Lake (3812083)

County Summary: El Dorado

Lat/Long:	38.97527 / -120.37382	Accuracy:	80 meters
UTM:	Zone-10 N4317313 E727501	Elevation (ft):	5620
PLSS:	T13N, R14E, Sec. 14, NE (M)	Acres:	0.0

Location: APPROXIMATELY 1 AIR MILE SOUTH OF FRANCIS COW CAMP, 2.5 MILES WSW OF LOON LAKE.

Detailed Location: MAPPED IN THE SW 1/4 OF THE NE 1/4 OF SECTION 14.

Ecological: WET AREA, ON THE MARGINS OF A MIXED CONIFER STAND. PLANTS GROWING ON SMALL RAISED HUMMOCKS LIKELY ABOVE WHERE WATER FLOWS. GROWING WITH BOTRYCHUM MINGANENSE, SENECIO TRIANGULARIS, PECTANTIA BREWERI, PRUNELLA VULGARIS, AND VIOLA GLABELLA.

General: 12 PLANTS OBSERVED IN 2010. NO PLANTS SEEN AT THE 2010 SPOT IN 2017 BUT 1 PLANT WAS SEEN JUST UPSTREAM THAT COULD BE B. CRENULATUM (SPREADING PINNAE); B. MINGANENSE IS THE PREDOMINATE SPECIES IN THE POPULATION.

Owner/Manager: PVT-SIERRA PACIFIC



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	51	Map Index: 84448	EO Index: 85477	Element Last Seen:	2010-08-03
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2010-08-03
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2011-12-06

Quad Summary: Loon Lake (3812083)

County Summary: El Dorado

Lat/Long:	38.96878 / -120.36428	Accuracy:	80 meters
UTM:	Zone-10 N4316617 E728348	Elevation (ft):	5760
PLSS:	T13N, R14E, Sec. 13, SW (M)	Acres:	0.0

Location: APPROXIMATELY 0.7 AIR MILE WEST OF SCHLEIN RANGER STATION, 2.25 AIR MILES SOUTHWEST OF LOON LAKE.

Detailed Location: MAPPED IN THE SW 1/4 OF THE SW 1/4 OF SECTION 13.

Ecological: ADJACENT TO A SPRINGY AREA ON A SEASONAL WATERCOURSE.

General: 10-20 PLANTS OBSERVED IN 2010.

Owner/Manager: PVT-SIERRA PACIFIC

Occurrence No.	65	Map Index: 89239	EO Index: 90236	Element Last Seen:	2015-08-19
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2015-08-19
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-02-26

Quad Summary: Loon Lake (3812083)

County Summary: El Dorado

Lat/Long:	38.96105 / -120.36712	Accuracy:	specific area
UTM:	Zone-10 N4315751 E728127	Elevation (ft):	5640
PLSS:	T13N, R14E, Sec. 23, NE (M)	Acres:	1.0

Location: 1 MILE WEST OF STONE CELLAR, APPROXIMATELY 2.7 AIR MILES SW OF LOON LAKE.

Detailed Location: MAPPED BASED ON DIGITAL DATA PROVIDED BY LO, IN THE SE 1/4 OF THE NE 1/4 OF SECTION 23. IN A NARROW SIDE DRAINAGE OF SOUTH FORK RUBICON RIVER. ELDORADO NF POPULATION #BOCR-001.

Ecological: NARROW DRAINAGE ON GENTLE SW-FACING SLOPE IN MOIST SOIL. FOREST DOMINATED BY ABIES CONCOLOR. ASSOC W/MOSS, ACONITUM COLUMBIANUM, LILIUM PARVUM, PTERIDIUM AQUILINUM. OTHER RARE SPECIES NEARBY: B. MONTANUM, B. SIMPLEX, SCEPTRIDIUM MULTIFIDUM.

General: 3 PLANTS OBSERVED IN 2012. 2 PLANTS FOUND IN 2015. THERE COULD BE MORE POTENTIAL HABITAT DOWNSTREAM OF THIS OCCURRENCE.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	119	Map Index: A6381	EO Index: 108093	Element Last Seen:	2016-07-05
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-07-05
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-09-14
Quad Summary:	Caldor (3812054)				
County Summary:	El Dorado				
Lat/Long:	38.60733 / -120.39387		Accuracy:	specific area	
UTM:	Zone-10 N4276425 E726929		Elevation (ft):	4870	
PLSS:	T09N, R14E, Sec. 26, NE (M)		Acres:	2.0	
Location:	ALONG MCKINNEY CREEK 2.1 AIR MILES EAST OF CALDOR, JUST NORTH OF FOREST RD 09N91.				
Detailed Location:	MAPPED BY CNDDDB BASED ON DIGITAL DATA PROVIDED BY ELDORADO NF, IN THE NW 1/4 OF THE NE 1/4 OF SECTION 26.				
Ecological:	GROWING IN WET DUFF, FULL SHADE. WEST ASPECT.				
General:	20 GENETS OBSERVED IN 2016. ELDORADO NF POPULATION #5.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	121	Map Index: A6339	EO Index: 108095	Element Last Seen:	2016-07-13
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-07-13
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-09-12
Quad Summary:	Leek Spring Hill (3812063)				
County Summary:	El Dorado				
Lat/Long:	38.69694 / -120.33655		Accuracy:	specific area	
UTM:	Zone-10 N4286514 E731632		Elevation (ft):	5680	
PLSS:	T10N, R15E, Sec. 20, S (M)		Acres:	1.0	
Location:	ABOUT 1.2 AIR MILES ESE OF IRON MOUNTAIN AND 1.1 AIR MILES SW OF MORRISON.				
Detailed Location:	MAPPED BY CNDDDB BASED ON DIGITAL DATA PROVIDED BY ELDORADO NF, IN THE SOUTH HALF OF SECTION 20 NEAR BOUNDARY OF SECTION 29.				
Ecological:	GROWING IN WET DUFF, PARTIAL SHADE. NE ASPECT.				
General:	4 GENETS OBSERVED IN 2016. ELDORADO NF POPULATION #6.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	122	Map Index: A6340	EO Index: 108096	Element Last Seen:	2016-07-21
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-07-21
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-09-12
Quad Summary:	Leek Spring Hill (3812063)				
County Summary:	El Dorado				
Lat/Long:	38.73318 / -120.30141		Accuracy:	specific area	
UTM:	Zone-10 N4290625 E734570		Elevation (ft):	5850	
PLSS:	T10N, R15E, Sec. 10, NW (M)		Acres:	1.0	
Location:	JUST NORTH OF FOREST RD 10N32 ON NORTH SLOPE OF ALDER RIDGE, 2.3 AIR MILES SW OF CHINA FLAT CAMPGROUND.				
Detailed Location:	MAPPED BY CNDDDB BASED ON DIGITAL DATA PROVIDED BY ELDORADO NF, IN THE SE 1/4 OF THE NW 1/4 OF SECTION 10.				
Ecological:	GROWING IN WET DUFF, PARTIAL SHADE. NORTH ASPECT.				
General:	8 GENETS OBSERVED IN 2016. ELDORADO NF POPULATION #8.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	123	Map Index: A6344	EO Index: 108100	Element Last Seen:	2016-08-03
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-08-03
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-09-12
Quad Summary:	Leek Spring Hill (3812063)				
County Summary:	El Dorado				
Lat/Long:	38.74906 / -120.29384		Accuracy:	specific area	
UTM:	Zone-10 N4292408 E735176		Elevation (ft):	4985	
PLSS:	T11N, R15E, Sec. 34, SW (M)		Acres:	1.0	
Location:	JUST EAST OF BEANVILLE CREEK, ABOUT 1.4 AIR MILES WSW OF CHINA FLAT CAMPGROUND ON THE SILVER FORK AMERICAN RIVER.				
Detailed Location:	MAPPED BY CNDDDB BASED ON DIGITAL DATA PROVIDED BY ELDORADO NF, IN THE SW 1/4 OF THE SW 1/4 OF SECTION 34.				
Ecological:	GROWING IN WET DUFF, PARTIAL SHADE. NORTH ASPECT.				
General:	1 GENET OBSERVED IN 2016. ELDORADO NF POPULATION #7.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	124	Map Index: A6345	EO Index: 108101	Element Last Seen:	2016-09-28
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2016-09-28
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-09-12
Quad Summary:	Kyburz (3812073)				
County Summary:	El Dorado				
Lat/Long:	38.84295 / -120.34484		Accuracy:	80 meters	
UTM:	Zone-10 N4302699 E730440		Elevation (ft):	5060	
PLSS:	T12N, R15E, Sec. 31, SW (M)		Acres:	5.0	
Location:	ABOUT 0.9 AIR MILE NORTH OF WRIGHTS LAKE RD AT ICE HOUSE RESERVOIR AND 1.5 AIR MILES ESE OF JONES PLACE.				
Detailed Location:	MAPPED BY CNDDDB FROM 2016 SPI COORDINATES, IN THE NE 1/4 OF THE SW 1/4 OF SECTION 31.				
Ecological:	FLAT CREEK BANK UNDER 50% CANOPY COVER ON A GENTLE WEST-FACING SLOPE, IN AN ALDER THICKET.				
General:	2 PLANTS OBSERVED IN 2016.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	125	Map Index: A6382	EO Index: 108102	Element Last Seen:	2016-07-07
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-07-07
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-08-24
Quad Summary:	Loon Lake (3812083)				
County Summary:	El Dorado				
Lat/Long:	38.8896 / -120.30592		Accuracy:	specific area	
UTM:	Zone-10 N4307976 E733666		Elevation (ft):	6150	
PLSS:	T12N, R15E, Sec. 16, NW (M)		Acres:	1.0	
Location:	ABOUT 1 AIR MILE WNW OF SLICK ROCK AND 2 AIR MILES ESE OF WENCH FLAT, ELDORADO NATIONAL FOREST.				
Detailed Location:	MAPPED BY CNDDDB FROM DIGITAL DATA PROVIDED BY ELDORADO NF, IN THE SE 1/4 OF THE NW 1/4 OF SECTION 16.				
Ecological:	MOIST DUFF, PARTIAL SHADE. SSW ASPECT. ASSOCIATED WITH ABIES CONCOLOR, PSEUDOTSUGA MENZIESII, QUERCUS, CALOCEDRUS DECURRENS, ALNUS INCANA SSP. TENUIFOLIA, SENECIO TRIANGULARIS, PTERIDIUM AQUILINUM, AND ATHYRIUM FILIX-FEMINA.				
General:	9 PLANTS OBSERVED IN 2016. ELDORADO NF POPULATION #2.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	126	Map Index:	A6346	EO Index:	108103	Element Last Seen:	2016-07-06
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2016-07-06	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-08-24	
Quad Summary:	Loon Lake (3812083)						
County Summary:	El Dorado						
Lat/Long:	38.98101 / -120.37356	Accuracy:	specific area				
UTM:	Zone-10 N4317950 E727506	Elevation (ft):	5700				
PLSS:	T13N, R14E, Sec. 11, SE (M)	Acres:	1.0				
Location:	ABOUT 0.6 AIR MILE SOUTH OF FRANCIS COW CAMP, AND 1.5 AIR MILES NE OF GERLE CREEK RESERVOIR DAM.						
Detailed Location:	MAPPED BY CNDDDB IN THE SW 1/4 OF THE SE 1/4 OF SECTION 11, BASED ON DIGITAL DATA PROVIDED BY ELDORADO NF.						
Ecological:	MIXED CONIFER FOREST IN DRY DUFF, FULL SHADE. ASSOCIATED WITH PINUS PONDEROSA, ABIES CONCOLOR, CALOCEDRUS DECURRENS, SENECIO TRIANGULARIS, PRUNELLA VULGARIS, VERATRUM CALIFORNICUM, LILIUM PARVUM, RANUNCULUS, PTERIDIUM AQUILINUM, ETC.						
General:	3 PLANTS OBSERVED IN 2016. ELDORADO NF POPULATION #11.						
Owner/Manager:	USFS-ELDORADO NF						
Occurrence No.	138	Map Index:	B0432	EO Index:	112295	Element Last Seen:	2017-07-13
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2017-07-13	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-08-21	
Quad Summary:	Leek Spring Hill (3812063)						
County Summary:	El Dorado						
Lat/Long:	38.70172 / -120.2536	Accuracy:	specific area				
UTM:	Zone-10 N4287258 E738831	Elevation (ft):	5785				
PLSS:	T10N, R16E, Sec. 19, SW (M)	Acres:	1.0				
Location:	ALONG FOREST SERVICE ROAD 10N34, HEADWATERS OF GIRARD CREEK, ALDER RIDGE.						
Detailed Location:	MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE NW 1/4 OF THE SW 1/4 OF SECTION 19.						
Ecological:	GROWING IN MOSS ON SMALL MOUND BETWEEN ROCKS, BENEATH VERY LARGE BOULDER. TIMBER TYPE IN AREA IS UPPER MONTANE MIXED CONIFER FOREST W/ ABIES MAGNIFICA, A. CONCOLOR, PINUS JEFFREYI, & P. LAMBERTIANA. ASSOCIATED W/ SENECIO TRIANGULARIS, ETC.						
General:	2 MATURE PLANTS OBSERVED IN 2017.						
Owner/Manager:	USFS-ELDORADO NF						



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	139	Map Index: B0433	EO Index: 112297	Element Last Seen:	2017-07-06
Occ. Rank:	Poor		Presence: Presumed Extant	Site Last Seen:	2017-07-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-08-30
Quad Summary:	Kyburz (3812073)				
County Summary:	El Dorado				
Lat/Long:	38.7518 / -120.27677		Accuracy:	specific area	
UTM:	Zone-10 N4292756 E736650		Elevation (ft):	5160	
PLSS:	T11N, R15E, Sec. 35, SW (M)		Acres:	2.0	
Location:	SOUTH OF SILVER FORK AMERICAN RIVER, APPROXIMATELY 1.9 AIR MILES SE OF KYBURZ.				
Detailed Location:	MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE WEST 1/2 OF THE SW 1/4 OF SECTION 35.				
Ecological:	PLANTS ARE GROWING IN MOIST, BARE SOIL ON MOUNDS AND ON THE BANKS OF A VERDANT PERENNIAL STREAM RUNNING ALONGSIDE AN OLD, DECOMMISSIONED ROAD IN A MIXED CONIFER FOREST OF CALOCEDRUS DECURRENS, ABIES CONCOLOR, PSEUDOTSUGA MENZIESII, ETC.				
General:	6 PLANTS OBSERVED IN 2017.				
Owner/Manager:	USFS-ELDORADO NF				
Occurrence No.	140	Map Index: B0434	EO Index: 112298	Element Last Seen:	2017-07-24
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2017-07-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-08-21
Quad Summary:	Kyburz (3812073)				
County Summary:	El Dorado				
Lat/Long:	38.81017 / -120.30427		Accuracy:	specific area	
UTM:	Zone-10 N4299164 E734070		Elevation (ft):	6245	
PLSS:	T11N, R15E, Sec. 9, SW (M)		Acres:	1.0	
Location:	TRIBUTARY OF SOUTH FORK SILVER CREEK, ABOUT 2.5 AIR MILES WSW OF WILSON RANCH, NW OF ATHERTON FLAT.				
Detailed Location:	MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE EAST 1/2 OF THE SW 1/4 OF SECTION 9.				
Ecological:	IN SOFT, SATURATED SOIL BORDERING THE STREAM BANK AND GROWING OUT OF MOSS AND CEDAR DUFF. NORTH ASPECT. ASSOCIATES INCLUDE ABIES CONCOLOR, CALOCEDRUS DECURRENS, GALIUM, ADENOCAULON BICOLOR, SENECIO TRIANGULARIS, GOODYERA OBLONGIFOLIA, ETC.				
General:	5 PLANTS OBSERVED IN 2017.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	141	Map Index: B0436	EO Index: 112300	Element Last Seen: 2017-08-11
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 2017-08-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2018-08-21

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.8364 / -120.34771	Accuracy:	specific area
UTM:	Zone-10 N4301965 E730212	Elevation (ft):	5240
PLSS:	T12N, R15E, Sec. 31, SW (M)	Acres:	2.0

Location: ~0.27 AIR MILE NORTH OF WRIGHTS LAKE ROAD, ~2 AIR MILES ENE OF INTERSECTION OF WRIGHTS LAKE ROAD AND ICE HOUSE ROAD.

Detailed Location: MAPPED AS 3 POLYGONS ACCORDING TO USFS DIGITAL DATA, MOSTLY IN THE SW 1/4 OF THE SW 1/4 OF SECTION 31.

Ecological: GROWING ON SMALL SEEPS THAT FLOW DOWN TO THE MAIN CREEK AND WITHIN A MEADOW COMPLEX WITHIN A MIXED CONIFER FOREST. PLANTS GROWING IN A LARGE MEADOW COMPLEX ON THE EDGE OF A SMALL ISLAND OF CALOCEDRUS DECURRENS WITHIN THE MEADOW.

General: IN 2017, 2 BOCR SEEN IN WESTERN POLYGON, 3 BOCR SEEN IN MIDDLE POLYGON, AND 16 BOTRYCHIA INCLUDING BOCR SEEN IN EASTERN POLYGON; EASTERN POPULATION IS A MIXTURE OF BOTRYCHIA AND THE NUMBER FOR EACH SPECIES WAS NOT TAKEN.

Owner/Manager: PVT-SIERRA PACIFIC

Occurrence No.	142	Map Index: B0438	EO Index: 112302	Element Last Seen: 2017-09-13
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen: 2017-09-13
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2018-08-21

Quad Summary: Robbs Peak (3812084)

County Summary: El Dorado

Lat/Long:	38.94217 / -120.43898	Accuracy:	specific area
UTM:	Zone-10 N4313479 E721960	Elevation (ft):	5968
PLSS:	T13N, R14E, Sec. 29, SW (M)	Acres:	1.0

Location: JUST NORTH OF WENTWORTH SPRINGS ROAD, SOUTH OF THE SOUTH FORK RUBICON RIVER, ~2.3 AIR MILES NW OF ROBBS PEAK.

Detailed Location: MAPPED ACCORDING TO 2017 O'BRIEN COORDINATES, IN THE NW 1/4 OF THE SW 1/4 OF SECTION 29.

Ecological: GROWING ALONG THE EDGE OF A LARGE MEADOW COMPLEX AND MIXED CONIFER FOREST. GROWING IN MOIST SOIL AND SMALL TRANSITION ZONE BEFORE SOIL DRIES OUT NEAR A SMALL STREAMLET AND SEVERAL SEEPS THAT ARE WITHIN THE MEADOW COMPLEX.

General: 330 BOTRYCHIUM PLANTS OBSERVED IN 2017; MAJORITY OF PLANTS WERE B. MINGANENSE WITH SOME B. ASCENDENS AND B. CRENULATUM. THE ENTIRE MEADOW COMPLEX WAS NOT SURVEYED SO THERE IS LIKELY MORE BOTRYCHIUM HABITAT PRESENT.

Owner/Manager: PVT-SIERRA PACIFIC

Botrychium minganense		Element Code: PPOPH010R0
Mingan moonwort		
Listing Status:	Federal: None	CNDDDB Element Ranks: Global: G4G5
	State: None	State: S3
	Other: Rare Plant Rank - 2B.2, USFS_S-Sensitive	
Habitat:	General: LOWER MONTANE CONIFEROUS FOREST, UPPER MONTANE CONIFEROUS FOREST, BOGS AND FENS, MEADOWS AND SEEPS.	
	Micro: CREEKBANKS IN MIXED CONIFER FOREST. 1190-3295 M.	



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	40	Map Index:	91356	EO Index:	92469	Element Last Seen:	2016-07-14
Occ. Rank:	Fair	Presence:	Presumed Extant	Site Last Seen:		2016-07-14	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2017-08-08	
Quad Summary:	Loon Lake (3812083)						
County Summary:	El Dorado						
Lat/Long:	38.96062 / -120.36748			Accuracy:	specific area		
UTM:	Zone-10 N4315703 E728097			Elevation (ft):	5600		
PLSS:	T13N, R14E, Sec. 23, NE (M)			Acres:	2.0		
Location:	SIDE DRAINAGE OF THE SOUTH FORK RUBICON RIVER NEAR ICE HOUSE ROAD, APPROXIMATELY 1 AIR MILE WEST OF STONE CELLAR.						
Detailed Location:	2 POLYGONS MAPPED IN THE SE 1/4 OF THE NE 1/4 OF SECTION 23 ACCORDING TO 2012 LO DIGITAL DATA. ELDORADO NF POPULATION #BOMI-001.						
Ecological:	GROWING ALONG AN EPHEMERAL STRETCH OF A NARROW DRAINAGE. FOREST IS DOMINATED BY ABIES CONCOLOR. GENTLE SLOPE, SW ASPECT, MOIST SOIL. GROWING MOSTLY IN SHADE WITH NO DUFF, OR LIGHT TO DENSE INCENSE CEDAR DUFF. ASSOC W/ MOSS, PECTIANTIA, ETC.						
General:	4-12 PLANTS OBSERVED IN 2012. 5 PLANTS SEEN IN 2015, THOUGH ENTIRE AREA WAS NOT SEARCHED. 7 PLANTS OBSERVED IN 2016. THE RARE B. MONTANUM IS FOUND GROWING NEARBY. THERE COULD BE MORE POTENTIAL HABITAT DOWNSTREAM OF THE OCCURRENCE.						
Owner/Manager:	USFS-ELDORADO NF						
Occurrence No.	70	Map Index:	99273	EO Index:	100804	Element Last Seen:	2016-07-06
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2016-07-06	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2017-08-08	
Quad Summary:	Robbs Peak (3812084)						
County Summary:	El Dorado						
Lat/Long:	38.90877 / -120.39897			Accuracy:	specific area		
UTM:	Zone-10 N4309870 E725533			Elevation (ft):	5880		
PLSS:	T12N, R14E, Sec. 3, SW (M)			Acres:	2.0		
Location:	ABOUT 1.1 AIR MILES SOUTH OF SUMMIT OF ROBBS PEAK, AND ABOUT 0.5 MILE WEST OF ICE HOUSE RD.						
Detailed Location:	MAPPED FROM 2015 USFS DIGITAL DATA IN THE SOUTH 1/2 OF THE SW 1/4 OF SECTION 3. ELDORADO NATIONAL FOREST POPULATION #BOMI-002.						
Ecological:	SEEP IN MIXED CONIFER FOREST JUST ABOVE MAIN RIPARIAN CHANNEL, GROWING IN MOIST MOSS-COVERED SOIL. ASSOCIATES INCLUDE ALNUS INCANA, ATHYRIUM FILIX-FEMINA, MITELLA BREWERI, VIOLA ADUNCA, BOYKINIA MAJOR, CLINTONIA UNIFLORA, LILIUM, ETC.						
General:	5 PLANTS OBSERVED IN 2015. 3 PLANTS OBSERVED IN 2016.						
Owner/Manager:	USFS-ELDORADO NF						



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	105	Map Index: A5789	EO Index: 107531	Element Last Seen:	2016-07-21
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-07-21
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-08-08

Quad Summary: Leek Spring Hill (3812063)

County Summary: El Dorado

Lat/Long:	38.73531 / -120.29459	Accuracy:	specific area
UTM:	Zone-10 N4290880 E735156	Elevation (ft):	5800
PLSS:	T10N, R15E, Sec. 10, NE (M)	Acres:	7.0

Location: HEAD OF BEANVILLE CREEK, APPROXIMATELY 0.7 AIR MILE NNW OF OSO SPRING, ELDORADO NATIONAL FOREST.

Detailed Location: MAPPED AS 4 POLYGONS ACCORDING TO USFS DIGITAL DATA.

Ecological: MOIST AND WET DUFF. PARTIAL AND FULL SHADE. NW AND NORTH ASPECT.

General: AT LEAST 32 GENETS OBSERVED IN 2016.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	106	Map Index: A5790	EO Index: 107532	Element Last Seen:	2016-07-21
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-07-21
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-08-08

Quad Summary: Leek Spring Hill (3812063)

County Summary: El Dorado

Lat/Long:	38.7344 / -120.30186	Accuracy:	specific area
UTM:	Zone-10 N4290760 E734527	Elevation (ft):	5800
PLSS:	T10N, R15E, Sec. 10, NW (M)	Acres:	5.0

Location: HEAD OF BEANVILLE CREEK, APPROXIMATELY 1 AIR MILE NW OF OSO SPRING, ELDORADO NATIONAL FOREST.

Detailed Location: MAPPED AS 3 POLYGONS ACCORDING TO USFS DIGITAL DATA, IN THE EAST 1/2 OF THE NW 1/4 OF SECTION 10.

Ecological: MOIST AND WET DUFF. PARTIAL SHADE. NE AND NORTH ASPECT.

General: 25 GENETS OBSERVED IN 2016 (8 PLANTS IN NORTHERN POLYGON, 17 PLANTS IN TWO SOUTHERN POLYGONS).

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	107	Map Index: A5791	EO Index: 107533	Element Last Seen:	2016-07-14
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-07-14
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-08-08

Quad Summary: Leek Spring Hill (3812063)

County Summary: El Dorado

Lat/Long:	38.71061 / -120.34711	Accuracy:	specific area
UTM:	Zone-10 N4288005 E730669	Elevation (ft):	5430
PLSS:	T10N, R15E, Sec. 19, NE (M)	Acres:	2.0

Location: LIGHT CANYON, APPROXIMATELY 0.7 AIR MILE NE OF IRON MOUNTAIN SUMMIT, ELDORADO NATIONAL FOREST.

Detailed Location: MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE NE 1/4 OF THE NE 1/4 OF SECTION 19.

Ecological: MOIST DUFF. PARTIAL SHADE. EAST ASPECT.

General: 20 GENETS OBSERVED IN 2016.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	108	Map Index: A5792	EO Index: 107534	Element Last Seen:	2016-07-13
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-07-13
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-08-08

Quad Summary: Leek Spring Hill (3812063)

County Summary: El Dorado

Lat/Long:	38.69674 / -120.33005	Accuracy:	specific area
UTM:	Zone-10 N4286509 E732198	Elevation (ft):	5650
PLSS:	T10N, R15E, Sec. 20, SE (M)	Acres:	3.0

Location: APPROXIMATELY 0.9 TO 1 AIR MILE SSW OF MORRISON, ESE OF IRON MOUNTAIN, ELDORADO NATIONAL FOREST.
Detailed Location: NORTH OF THE EAST END OF FOREST SERVICE ROAD 10N44B. MAPPED AS 2 POLYGONS ACCORDING TO USFS DIGITAL DATA, IN THE SE 1/4 OF THE SE 1/4 OF SECTION 20 AND THE NE 1/4 OF THE NE 1/4 OF SECTION 29.
Ecological: MOIST DUFF. PARTIAL SHADE. NORTH ASPECT.
General: 9 GENETS OBSERVED IN 2016.
Owner/Manager: USFS-ELDORADO NF

Occurrence No.	109	Map Index: A5793	EO Index: 107535	Element Last Seen:	2016-07-13
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-07-13
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2017-08-08

Quad Summary: Leek Spring Hill (3812063)

County Summary: El Dorado

Lat/Long:	38.69699 / -120.33656	Accuracy:	specific area
UTM:	Zone-10 N4286520 E731631	Elevation (ft):	5675
PLSS:	T10N, R15E, Sec. 20, S (M)	Acres:	2.0

Location: APPROXIMATELY 1 TO 1.1 AIR MILES SW OF MORRISON, ESE OF IRON MOUNTAIN, ELDORADO NATIONAL FOREST.
Detailed Location: NE SIDE OF FOREST SERVICE ROAD 10N44B. MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE SOUTH 1/2 OF SECTION 20.
Ecological: WET DUFF. PARTIAL SHADE. NE ASPECT.
General: 21 GENETS OBSERVED IN 2016.
Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	123	Map Index: B0446	EO Index: 112310	Element Last Seen:	2017-07-13
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2017-07-13
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-08-21

Quad Summary: Leek Spring Hill (3812063)
County Summary: El Dorado

Lat/Long:	38.70535 / -120.25146	Accuracy:	specific area
UTM:	Zone-10 N4287666 E739005	Elevation (ft):	5713
PLSS:	T10N, R16E, Sec. 19, NW (M)	Acres:	1.0

Location: GIRARD CREEK, EAST SIDE OF ALDER RIDGE, APPROXIMATELY 2.4 AIR MILES WNW OF SILVER FORK CAMPGROUND.
Detailed Location: GROWING IN A SMALL SEEPY AREA JUST SOUTH OF A SMALL SIDE CHANNEL FEEDING INTO THE MAIN CHANNEL OF GIRARD CREEK. MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE SW 1/4 OF THE NW 1/4 OF SECTION 19.
Ecological: PLANTS ARE GROWING IN A WET SEEP ALONGSIDE GIRARD CREEK, SURROUNDED BY A MIXED CONIFER FOREST OF CALOCEDRUS DECURRENS, ABIES MAGNIFICA, A. CONCOLOR, PINUS JEFFREYI, AND P. LAMBERTIANA. ASSOC W/ SENECIO TRIANGULARIS, CIRCAEA ALPINA, ETC.
General: 21 MATURE PLANTS OBSERVED IN 2017.
Owner/Manager: USFS-ELDORADO NF

Occurrence No.	124	Map Index: B0447	EO Index: 112311	Element Last Seen:	2017-07-06
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2017-07-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-08-21

Quad Summary: Kyburz (3812073)
County Summary: El Dorado

Lat/Long:	38.75071 / -120.27634	Accuracy:	specific area
UTM:	Zone-10 N4292637 E736692	Elevation (ft):	5200
PLSS:	T11N, R15E, Sec. 35, SW (M)	Acres:	2.0

Location: ALONG TRIBUTARY TO SILVER FORK AMERICAN RIVER, APPROXIMATELY 0.4 AIR MILE WSW OF CHINA FLAT, ELDORADO NATIONAL FOREST.
Detailed Location: 2 POLYGONS MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE SOUTH 1/2 OF THE SW 1/4 OF SECTION 35.
Ecological: MOSSY, VEGETATED BANKS OF A VERDANT PERENNIAL STREAM IN A MIXED CONIFER FOREST OF CALOCEDRUS DECURRENS, ABIES CONCOLOR, PSEUDOTSUGA MENZIESII AND PINUS PONDEROSA. ASSOC W/ ALNUS INCANA, CORNUS NUTTALLII, SALIX SP., LILIUM PARVUM, ETC.
General: 11 PLANTS OBSERVED IN NORTHERN POLYGON AND 25 PLANTS OBSERVED IN SOUTHERN POLYGON IN 2017.
Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	125	Map Index: B0449	EO Index: 112313	Element Last Seen:	2017-05-20
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2017-05-20
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-08-21

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.80171 / -120.31632	Accuracy:	specific area
UTM:	Zone-10 N4298194 E733050	Elevation (ft):	5935
PLSS:	T11N, R15E, Sec. 17, NE (M)	Acres:	1.0

Location: ALONG TRIBUTARY TO SOUTH FORK SILVER CREEK, APPROXIMATELY 2.7 AIR MILES SOUTHEAST OF ICE HOUSE DAM, ELDORADO NF.

Detailed Location: MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE SE 1/4 OF THE NE 1/4 OF SECTION 17.

Ecological: WET SOIL, FULL SHADE. ASSOCIATED WITH CORYLUS CORNUTA, CALOCEDRUS DECURRENS, RUBUS PARVIFLORUS, AND OTHER MOSS SPECIES.

General: 1 PLANT OBSERVED IN 2017.

Owner/Manager: USFS-ELDORADO NF

Occurrence No.	126	Map Index: B0451	EO Index: 112315	Element Last Seen:	2017-07-24
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2017-07-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-08-21

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.81071 / -120.30452	Accuracy:	specific area
UTM:	Zone-10 N4299223 E734046	Elevation (ft):	6200
PLSS:	T11N, R15E, Sec. 9, SW (M)	Acres:	2.0

Location: TRIBUTARY TO ICE HOUSE RESERVOIR, APPROXIMATELY 1.8 AIR MILES SSW OF WINDMILLER CABIN, ELDORADO NATIONAL FOREST.

Detailed Location: 2 POLYGONS MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE NE 1/4 OF THE SW 1/4 OF SECTION 9.

Ecological: NORTH ASPECT, WET SOIL, FULL SHADE. ASSOCIATED WITH ABIES CONCOLOR, CALOCEDRUS DECURRENS, GALIUM SPP., ADENOCAULON BICOLOR, SENECIO TRIANGULARIS, AND OTHER MOSS SPECIES.

General: 3 PLANTS OBSERVED IN NORTHERN POLYGON AND 5 PLANTS OBSERVED IN SOUTHERN POLYGON IN 2017.

Owner/Manager: USFS-ELDORADO NF



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	127	Map Index: B0457	EO Index: 112321	Element Last Seen:	2017-07-07
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2017-07-07
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-08-21

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.84054 / -120.34458	Accuracy:	specific area
UTM:	Zone-10 N4302432 E730470	Elevation (ft):	5200
PLSS:	T12N, R15E, Sec. 31, SW (M)	Acres:	1.0

Location: NORTH OF ICE HOUSE RESERVOIR, APPROXIMATELY 1.5 AIR MILES ESE OF JONES PLACE, ELDORADO NATIONAL FOREST.

Detailed Location: MAPPED ACCORDING TO SPI COORDINATES, NEAR THE CENTER OF THE SW 1/4 OF SECTION 31.

Ecological: GROWING AT THE TOP OF A SEEPY CREEK UNDER ALNUS INCANA SSP. TENUIFOLIA AND ALONG MOSSY EDGES OF CREEK BANKS. ASSOCIATED WITH ASARUM LEMMONII, PECTANTIA BREWERI, ATHYRIUM FILIX-FEMINA VAR. CYCLOSORUM, LISTERA CONVALLARIOIDES, ETC.

General: 67 BOTRYCHIUM PLANTS OBSERVED IN 2017; THE OCCURRENCE IS PREDOMINATELY MADE UP OF B. MINGANENSE, BUT THERE WAS SOME B. ASCENDENS. EXACT NUMBER OF EACH SPECIES WAS NOT COUNTED IN THE FIELD DUE TO DIFFICULTY OF ID IN THE FIELD.

Owner/Manager: PVT-SIERRA PACIFIC

Occurrence No.	128	Map Index: B0458	EO Index: 112322	Element Last Seen:	2017-08-11
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2017-08-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-08-21

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.83592 / -120.34732	Accuracy:	specific area
UTM:	Zone-10 N4301912 E730247	Elevation (ft):	5250
PLSS:	T11N, R15E, Sec. 6, NW (M)	Acres:	3.0

Location: NORTH OF ICE HOUSE RESERVOIR, APPROXIMATELY 1.5 AIR MILES SE OF JONES PLACE, ELDORADO NATIONAL FOREST.

Detailed Location: 2 POLYGONS MAPPED ACCORDING TO SPI COORDINATES, ON THE BORDER BETWEEN THE SW 1/4 SW 1/4 OF SECTION 31 AND THE NW 1/4 NW 1/4 OF SECTION 6.

Ecological: LARGE GRASSY MEADOW COMPLEX ON THE EDGE OF A SMALL ISLAND OF CALOCEDRUS DECURRENS WITHIN THE MEADOW. WET TRANSITION ZONE FROM MOSSY, LOW, CAREX AMPLIFOLIA DOMINATED MEADOW EDGE TO DRIER CEDARS. ASSOCIATED WITH GLYCERIA STRIATA, ETC.

General: 1 BOMI INDIVIDUAL OBSERVED IN WESTERN POLYGON, AND 16 BOTRYCHIA OBSERVED IN EASTERN POLYGON IN 2017; EASTERN POLYGON IS A MIXTURE OF BOTRYCHIA (B. MINGANENSE, B. ASCENDENS, B. MONTANUM), TOTAL NUMBER FOR EACH SPECIES NOT TAKEN.

Owner/Manager: PVT-SIERRA PACIFIC



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	129	Map Index: B0459	EO Index: 112323	Element Last Seen:	2017-07-25
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2017-07-25
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-08-21
Quad Summary:	Kyburz (3812073)				
County Summary:	El Dorado				
Lat/Long:	38.83702 / -120.37355		Accuracy:	specific area	
UTM:	Zone-10 N4301969 E727967		Elevation (ft):	5200	
PLSS:	T12N, R14E, Sec. 35, SE (M)		Acres:	1.0	
Location:	TRIBUTARY TO JONES FORK SILVER CREEK, APPROXIMATELY 0.9 AIR MILE SSW OF JONES PLACE.				
Detailed Location:	MAPPED ACCORDING TO SPI COORDINATES, IN THE SW 1/4 OF THE SE 1/4 OF SECTION 35.				
Ecological:	ALONG MOSSY CREEK BANK OF A CLASS II STREAM UNDER ATHYRIUM FILIX-FEMINA VAR. CYCLOSORUM WITH LISTERA CONVALLARIOIDES, VIOLA GLABELLA, ASARUM LEMMONII, CIRCAEA ALPINA, AND PECTANTIA WITHIN A MIXED CONIFER FOREST. CANOPY 30-100%.				
General:	3 PLANTS OBSERVED IN 2017.				
Owner/Manager:	PVT-SIERRA PACIFIC				
Occurrence No.	130	Map Index: B0460	EO Index: 112324	Element Last Seen:	2017-07-10
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2017-07-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-08-21
Quad Summary:	Riverton (3812074)				
County Summary:	El Dorado				
Lat/Long:	38.8358 / -120.39644		Accuracy:	specific area	
UTM:	Zone-10 N4301777 E725983		Elevation (ft):	5228	
PLSS:	T12N, R14E, Sec. 34, SW (M)		Acres:	1.0	
Location:	HEADWATERS OF TRIBUTARY TO JONES FORK SILVER CREEK, ~0.75 AIR MILE SOUTHEAST OF SUMMIT OF BIG HILL, ELDORADO NF.				
Detailed Location:	MAPPED ACCORDING TO USFS DIGITAL DATA, IN THE SE 1/4 OF THE SW 1/4 OF SECTION 34.				
Ecological:	ALONG SEMI-DRY PORTION OF AN INTERMITTENT OR POSSIBLY EPHEMERAL STREAM WITHIN A MIXED CONIFER FOREST OF CALOCEDRUS DECURRENS, ABIES CONCOLOR, AND PINUS LAMBERTIANA. ASSOC W/ CORNUS NUTTALLII, ADENOCAULON BICOLOR, SENECEO TRIANGULARIS, ETC.				
General:	1 PLANT OBSERVED IN 2017.				
Owner/Manager:	USFS-ELDORADO NF				



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	131	Map Index:	84446	EO Index:	112326	Element Last Seen:	2017-08-29
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2017-08-29	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-08-22	
Quad Summary:	Loon Lake (3812083)						
County Summary:	El Dorado						
Lat/Long:	38.97527 / -120.37382		Accuracy:	80 meters			
UTM:	Zone-10 N4317313 E727501		Elevation (ft):	5620			
PLSS:	T13N, R14E, Sec. 14, NE (M)		Acres:	0.0			
Location:	APPROXIMATELY 1 AIR MILE SOUTH OF FRANCIS COW CAMP, 2.5 MILES WSW OF LOON LAKE.						
Detailed Location:	MAPPED ACCORDING TO 2017 SPI COORDINATES, IN THE SW 1/4 OF THE NE 1/4 OF SECTION 14.						
Ecological:	SEASONAL DRAINAGE WITHIN A MIXED CONIFER FOREST. GROWING IN THE MIDDLE OF THE CREEK UNDER DENSE PTERIDIUM AQUILINUM VAR. PUBESCENS. GROWING WITH BOTRYCHIUM CRENLATUM, SENECIO TRIANGULARIS, PECTANTIA BREWERI, PRUNELLA VULGARIS, ETC.						
General:	14 INDIVIDUALS OBSERVED IN 2017. ONE ADDITIONAL INDIVIDUAL SEEN IN 2017 COULD BE BOTRYCHIUM CRENLATUM (SPREADING PINNAE), BUT BOTRYCHIUM MINGANENSE IS THE PREDOMINANT SPECIES IN THIS POPULATION.						
Owner/Manager:	PVT-SIERRA PACIFIC						

Occurrence No.	132	Map Index:	B0438	EO Index:	112327	Element Last Seen:	2017-09-13
Occ. Rank:	Excellent	Presence:	Presumed Extant	Site Last Seen:		2017-09-13	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-08-22	
Quad Summary:	Robbs Peak (3812084)						
County Summary:	El Dorado						
Lat/Long:	38.94217 / -120.43898		Accuracy:	specific area			
UTM:	Zone-10 N4313479 E721960		Elevation (ft):	5970			
PLSS:	T13N, R14E, Sec. 29, SW (M)		Acres:	1.0			
Location:	JUST NORTH OF WENTWORTH SPRINGS ROAD, SOUTH OF THE SOUTH FORK RUBICON RIVER, ~2.3 AIR MILES NW OF ROBBS PEAK.						
Detailed Location:	MAPPED ACCORDING TO O'BRIEN COORDINATES, IN THE NW 1/4 OF THE SW 1/4 OF SECTION 29.						
Ecological:	GROWING ALONG THE EDGE OF A LARGE MEADOW COMPLEX AND MIXED CONIFER FOREST. GROWING IN MOIST SOIL AND SMALL TRANSITION ZONE BEFORE SOIL DRIES OUT NEAR A SMALL STREAMLET AND SEVERAL SEEPS THAT ARE WITHIN THE MEADOW COMPLEX.						
General:	330 BOTRYCHIUM PLANTS OBSERVED IN 2017; MAJORITY OF PLANTS WERE B. MINGANENSE WITH SOME B. ASCENDENS AND B. CRENLATUM. THE ENTIRE MEADOW COMPLEX WAS NOT SURVEYED SO THERE IS LIKELY MORE BOTRYCHIUM HABITAT PRESENT.						
Owner/Manager:	PVT-SIERRA PACIFIC						

Botrychium ascendens			Element Code: PPOPH010S0				
upswept moonwort							
Listing Status:	Federal:	None	CNDDB Element Ranks:	Global:	G3G4		
	State:	None		State:	S2		
	Other:	Rare Plant Rank - 2B.3, USFS_S-Sensitive					
Habitat:	General:	LOWER MONTANE CONIFEROUS FOREST, MEADOWS AND SEEPS.					
	Micro:	GRASSY FIELDS, CONIFEROUS WOODS NEAR SPRINGS AND CREEKS. 1115-3265 M.					



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	55	Map Index: B0427	EO Index: 113198	Element Last Seen:	2017-08-11
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2017-08-11
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-11-05

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.83605 / -120.34678	Accuracy:	specific area
UTM:	Zone-10 N4301929 E730294	Elevation (ft):	5235
PLSS:	T11N, R15E, Sec. 6, NW (M)	Acres:	1.0

Location: NORTH OF ICE HOUSE RESERVOIR, ~0.25 AIR MILE N OF WRIGHTS LAKE RD, AND 2 AIR MI ENE OF INTERSECTION WITH ICE HOUSE RD.

Detailed Location: MAPPED BY CNDDDB FROM 2017 HENWOOD COORDINATES ON SECTION LINE BETWEEN THE SW 1/4 SECTION 31 AND THE NW 1/4 SECTION 6.

Ecological: LARGE MEADOW COMPLEX ON EDGE OF SMALL ISLAND OF CALOCEDRUS DECURRENS WITHIN MEADOW. IN WET TRANSITION ZONE FROM MOSSY CAREX AMPLIFOLIA-DOMINATED MEADOW EDGE TO DRIER CEDARS. WITH BOTRYCHIUM MINGANENSE, B. CRENULATUM, AND B. MONTANUM.

General: 16 BOTRYCHIUM PLANTS OBSERVED IN MIXED POPULATION IN 2017.

Owner/Manager: PVT-SIERRA PACIFIC

Occurrence No.	56	Map Index: B0457	EO Index: 113199	Element Last Seen:	2017-07-07
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2017-07-07
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2018-11-05

Quad Summary: Kyburz (3812073)

County Summary: El Dorado

Lat/Long:	38.84054 / -120.34458	Accuracy:	specific area
UTM:	Zone-10 N4302432 E730470	Elevation (ft):	5200
PLSS:	T12N, R15E, Sec. 31, SW (M)	Acres:	1.0

Location: NORTH OF ICE HOUSE RESERVOIR, ~2.15 AIR MI ENE OF INTERSECTION OF WRIGHTS LAKE RD AND ICE HOUSE RD.

Detailed Location: MAPPED BY CNDDDB FROM 2017 TIESEN COORDINATES IN THE CENTER OF THE SW 1/4 SECTION 31.

Ecological: GROWING AT THE TOP OF A SEEPY CREEK UNDER ALNUS INCANA SSP. TENUIFOLIA AND ALONG MOSSY EDGES OF CREEK BANKS. ASSOCIATES INCLUDE ASARUM LEMMONII, PECTANTIA BREWERI, ATHYRIUM FILIX-FEMINA, LISTERA CONVALLARIOIDES, AND BOTRYCHIUM MINGANENSE.

General: 67 BOTRYCHIUM PLANTS OBSERVED IN MIXED POPULATION IN 2017. POPULATION IS PREDOMINATELY B. MINGANENSE WITH SOME B. ASCENDENS.

Owner/Manager: PVT-SIERRA PACIFIC



Multiple Occurrences per Page
California Department of Fish and Wildlife
California Natural Diversity Database



Occurrence No.	57	Map Index:	B0438	EO Index:	113201	Element Last Seen:	2017-09-13
Occ. Rank:	Excellent	Presence:	Presumed Extant	Site Last Seen:		2017-09-13	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-11-02	
Quad Summary:	Robbs Peak (3812084)						
County Summary:	El Dorado						
Lat/Long:	38.94217 / -120.43898			Accuracy:	specific area		
UTM:	Zone-10 N4313479 E721960			Elevation (ft):	5970		
PLSS:	T13N, R14E, Sec. 29, SW (M)			Acres:	1.0		
Location:	JUST NORTH OF WENTWORTH SPRINGS ROAD, SOUTH OF THE SOUTH FORK RUBICON RIVER, ~2.3 AIR MILES NW OF ROBBS PEAK.						
Detailed Location:	MAPPED BY CNDDDB BASED ON 2017 O'BRIEN COORDINATES, IN THE NW 1/4 OF THE SW 1/4 OF SECTION 29.						
Ecological:	GROWING ALONG THE EDGE OF A LARGE MEADOW COMPLEX AND MIXED CONIFER FOREST. GROWING IN MOIST SOIL AND SMALL TRANSITION ZONE BEFORE SOIL DRIES OUT NEAR A SMALL STREAMLET AND SEVERAL SEEPS THAT ARE WITHIN THE MEADOW COMPLEX.						
General:	330 BOTRYCHIUM PLANTS OBSERVED IN 2017; MAJORITY OF PLANTS WERE B. MINGANENSE WITH SOME B. ASCENDENS AND B. CRENLATUM. THE ENTIRE MEADOW COMPLEX WAS NOT SURVEYED SO THERE IS LIKELY MORE BOTRYCHIUM HABITAT PRESENT.						
Owner/Manager:	PVT-SIERRA PACIFIC						

<i>Ophioglossum pusillum</i>			Element Code: PPOPH020F0	
northern adder's-tongue				
Listing Status:	Federal:	None	CNDDDB Element Ranks:	Global: G5
	State:	None		State: S1
	Other:	Rare Plant Rank - 2B.2, USFS_S-Sensitive		
Habitat:	General:	MARSHES AND SWAMPS, MEADOWS AND SEEPS.		
	Micro:	MARSH EDGES, LOW PASTURES, GRASSY ROADSIDE DITCHES. ALSO DESCRIBED AS IN "OPEN SWAMP." 1085 -1900 M.		

Occurrence No.	3	Map Index:	46237	EO Index:	46237	Element Last Seen:	2017-08-28
Occ. Rank:	Fair	Presence:	Presumed Extant	Site Last Seen:		2017-08-28	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2018-04-05	
Quad Summary:	Loon Lake (3812083)						
County Summary:	El Dorado						
Lat/Long:	38.96643 / -120.33901			Accuracy:	specific area		
UTM:	Zone-10 N4316420 E730546			Elevation (ft):	6235		
PLSS:	T13N, R15E, Sec. 18, SW (M)			Acres:	1.0		
Location:	NORTH SIDE OF LOON LAKE ROAD/ICE HOUSE ROAD, CHIPMUNK BUTTE, 0.75 MILE EAST OF SCHLEIN RANGER STATION.						
Detailed Location:	MILEPOST 27.02. MAPPED ACCORDING TO USFS DIGITAL DATA AND 2012 KEELAN COORDINATES, IN THE SE 1/4 OF THE SW 1/4 OF SECTION 18.						
Ecological:	GROWING NEAR BASE OF A SEEPY VERTICAL GRANITIC CLIFF FACE THAT WAS CREATED WHEN THE ROAD WAS BUILT. GROWING IN DENSE MOSS AT THE BASE UNDER A SMALL WILLOW TREE AND WHERE THERE IS A BREAK IN THE MOSSY CLIFF WHERE WATER DRIPS DOWN.						
General:	UNKNOWN NUMBER OBSERVED HERE IN 1983, 2003, 2004, AND 2016. ABOUT 5 PLANTS OBSERVED IN WESTERN PORTION OF SITE IN 2012. 6 PLANTS IN EASTERN PORTION OF SITE IN 2017. 1983 SHEVIK COLLECTION ORIGINALLY DETERMINED AS O. VULGATUM.						
Owner/Manager:	USFS-ELDORADO NF						

Plant List

Inventory of Rare and Endangered Plants

37 matches found. [Click on scientific name for details](#)

Search Criteria

Found in Quads 3812086, 3812076, 3812066, 3812056, 3812077, 3812067, 3812057, 3812055, 3812065, 3812075, 3812085, 3812084, 3812074, 3812064, 3812054, 3812083 3812073 and 3812063;

[Modify Search Criteria](#)
[Export to Excel](#)
[Modify Columns](#)
[Modify Sort](#)
[Display Photos](#)

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
Allium sanbornii var. congdonii	Congdon's onion	Alliaceae	perennial bulbiferous herb	Apr-Jul	4.3	S3	G4T3
Arctostaphylos mewukka ssp. truei	True's manzanita	Ericaceae	perennial evergreen shrub	Feb-Jul	4.2	S3	G4?T3
Arctostaphylos nissenana	Nissenan manzanita	Ericaceae	perennial evergreen shrub	Feb-Mar(Jun)	1B.2	S1	G1
Bolandra californica	Sierra bolandra	Saxifragaceae	perennial herb	Jun-Jul	4.3	S4	G4
Botrychium ascendens	upswept moonwort	Ophioglossaceae	perennial rhizomatous herb	(Jun)Jul-Aug	2B.3	S2	G3G4
Botrychium crenulatum	scalloped moonwort	Ophioglossaceae	perennial rhizomatous herb	Jun-Sep	2B.2	S3	G4
Botrychium minganense	Mingan moonwort	Ophioglossaceae	perennial rhizomatous herb	Jul-Sep	2B.2	S3	G4G5
Botrychium montanum	western goblin	Ophioglossaceae	perennial rhizomatous herb	Jul-Sep	2B.1	S2	G3
Botrychium paradoxum	paradox moonwort	Ophioglossaceae	perennial rhizomatous herb	Aug	2B.1	S1	G3G4
Calochortus clavatus var. avius	Pleasant Valley mariposa lily	Liliaceae	perennial bulbiferous herb	May-Jul	1B.2	S2	G4T2
Calystegia vanzuukiae	Van Zuuk's morning-glory	Convolvulaceae	perennial rhizomatous herb	May-Aug	1B.3	S2	G2Q
Carex cyrtostachya	Sierra arching sedge	Cyperaceae	perennial herb	May-Aug	1B.2	S2	G2
Carex davyi	Davy's sedge	Cyperaceae	perennial herb	May-Aug	1B.3	S3	G3
Carex limosa	mud sedge	Cyperaceae	perennial rhizomatous herb	Jun-Aug	2B.2	S3	G5
Ceanothus fresnensis	Fresno ceanothus	Rhamnaceae	perennial evergreen shrub	May-Jul	4.3	S4	G4
Chlorogalum grandiflorum	Red Hills soaproot	Agavaceae	perennial bulbiferous herb	May-Jun	1B.2	S3	G3
Clarkia biloba ssp. brandegeae	Brandegee's clarkia	Onagraceae	annual herb	May-Jul	4.2	S4	G4G5T4
Clarkia virgata	Sierra clarkia	Onagraceae	annual herb	May-Aug	4.3	S3	G3
	streambank spring beauty	Montiaceae	annual herb	Feb-May	4.2	S3	G5T3

Claytonia parviflora ssp. grandiflora							
Delphinium hansenii ssp. ewanianum	Ewan's larkspur	Ranunculaceae	perennial herb	Mar-May	4.2	S3	G4T3
Horkelia parryi	Parry's horkelia	Rosaceae	perennial herb	Apr-Sep	1B.2	S2	G2
Lewisia kelloggii ssp. hutchisonii	Hutchison's lewisia	Montiaceae	perennial herb	(Apr)May-Aug	3.2	S3	G3G4T3Q
Lewisia kelloggii ssp. kelloggii	Kellogg's lewisia	Montiaceae	perennial herb	(Apr)May-Aug	3.2	S2S3	G3G4T2T3Q
Lewisia serrata	saw-toothed lewisia	Montiaceae	perennial herb	May-Jun	1B.1	S2	G2
Lilium humboldtii ssp. humboldtii	Humboldt lily	Liliaceae	perennial bulbiferous herb	May-Jul(Aug)	4.2	S3	G4T3
Meesia triquetra	three-ranked hump moss	Meesiaceae	moss	Jul	4.2	S4	G5
Myrica hartwegii	Sierra sweet bay	Myricaceae	perennial deciduous shrub	May-Jun	4.3	S4	G4
Navarretia prolifera ssp. lutea	yellow bur navarretia	Polemoniaceae	annual herb	May-Jul	4.3	S3	G4T3
Ophioglossum pusillum	northern adder's-tongue	Ophioglossaceae	perennial rhizomatous herb	Jul	2B.2	S1	G5
Packera layneae	Layne's ragwort	Asteraceae	perennial herb	Apr-Aug	1B.2	S2	G2
Phacelia stebbinsii	Stebbins' phacelia	Hydrophyllaceae	annual herb	May-Jul	1B.2	S3	G3
Piperia colemanii	Coleman's rein orchid	Orchidaceae	perennial herb	Jun-Aug	4.3	S4	G4
Poa sierrae	Sierra blue grass	Poaceae	perennial rhizomatous herb	Apr-Jul	1B.3	S3	G3
Pseudostellaria sierrae	Sierra starwort	Caryophyllaceae	perennial rhizomatous herb	May-Aug	4.2	S3	G3G4
Rhynchospora capitellata	brownish beaked-rush	Cyperaceae	perennial herb	Jul-Aug	2B.2	S1	G5
Viburnum ellipticum	oval-leaved viburnum	Adoxaceae	perennial deciduous shrub	May-Jun	2B.3	S3?	G4G5
Viola tomentosa	felt-leaved violet	Violaceae	perennial herb	(Apr)May-Oct	4.2	S3	G3

Suggested Citation

California Native Plant Society, Rare Plant Program. 2019. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Website <http://www.rareplants.cnps.org> [accessed 06 February 2019].

Search the Inventory

[Simple Search](#)
[Advanced Search](#)
[Glossary](#)

Information

[About the Inventory](#)
[About the Rare Plant Program](#)
[CNPS Home Page](#)
[About CNPS](#)
[Join CNPS](#)

Contributors

[The Calflora Database](#)
[The California Lichen Society](#)
[California Natural Diversity Database](#)
[The Jepson Flora Project](#)
[The Consortium of California Herbaria](#)
[CalPhotos](#)

Questions and Comments

rareplants@cnps.org

© Copyright 2010-2018 California Native Plant Society. All rights reserved.

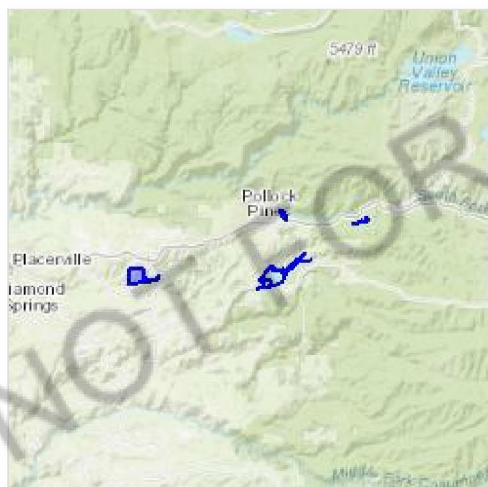
IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

El Dorado County, California



Local office

Sacramento Fish And Wildlife Office

☎ (916) 414-6600

📅 (916) 414-6713

Federal Building

2800 Cottage Way, Room W-2605

Sacramento, CA 95825-1846

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information.
2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Amphibians

NAME

STATUS

California Red-legged Frog *Rana draytonii* Threatened
 There is **final** critical habitat for this species. Your location is outside the critical habitat.
<https://ecos.fws.gov/ecp/species/2891>

Sierra Nevada Yellow-legged Frog *Rana sierrae* Endangered
 There is **final** critical habitat for this species. Your location is outside the critical habitat.
<https://ecos.fws.gov/ecp/species/9529>

Fishes

NAME	STATUS
Delta Smelt <i>Hypomesus transpacificus</i> There is final critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/321	Threatened

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Measures for avoiding and minimizing impacts to birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>

- Nationwide conservation measures for birds

<http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)

Bald Eagle *Haliaeetus leucocephalus*

Breeds Jan 1 to Aug 31

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

<https://ecos.fws.gov/ecp/species/1626>

California Spotted Owl *Strix occidentalis occidentalis*

Breeds Mar 10 to Jun 15

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/7266>

Cassin's Finch *Carpodacus cassinii*

Breeds May 15 to Jul 15

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9462>

Golden Eagle *Aquila chrysaetos*

Breeds Dec 1 to Aug 31

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

<https://ecos.fws.gov/ecp/species/1680>

Olive-sided Flycatcher *Contopus cooperi*

Breeds May 20 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/3914>

Rufous Hummingbird *selasphorus rufus*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/8002>

Williamson's Sapsucker *Sphyrapicus thyroideus*

Breeds May 1 to Jul 31

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

<https://ecos.fws.gov/ecp/species/8832>

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

- To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
- The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

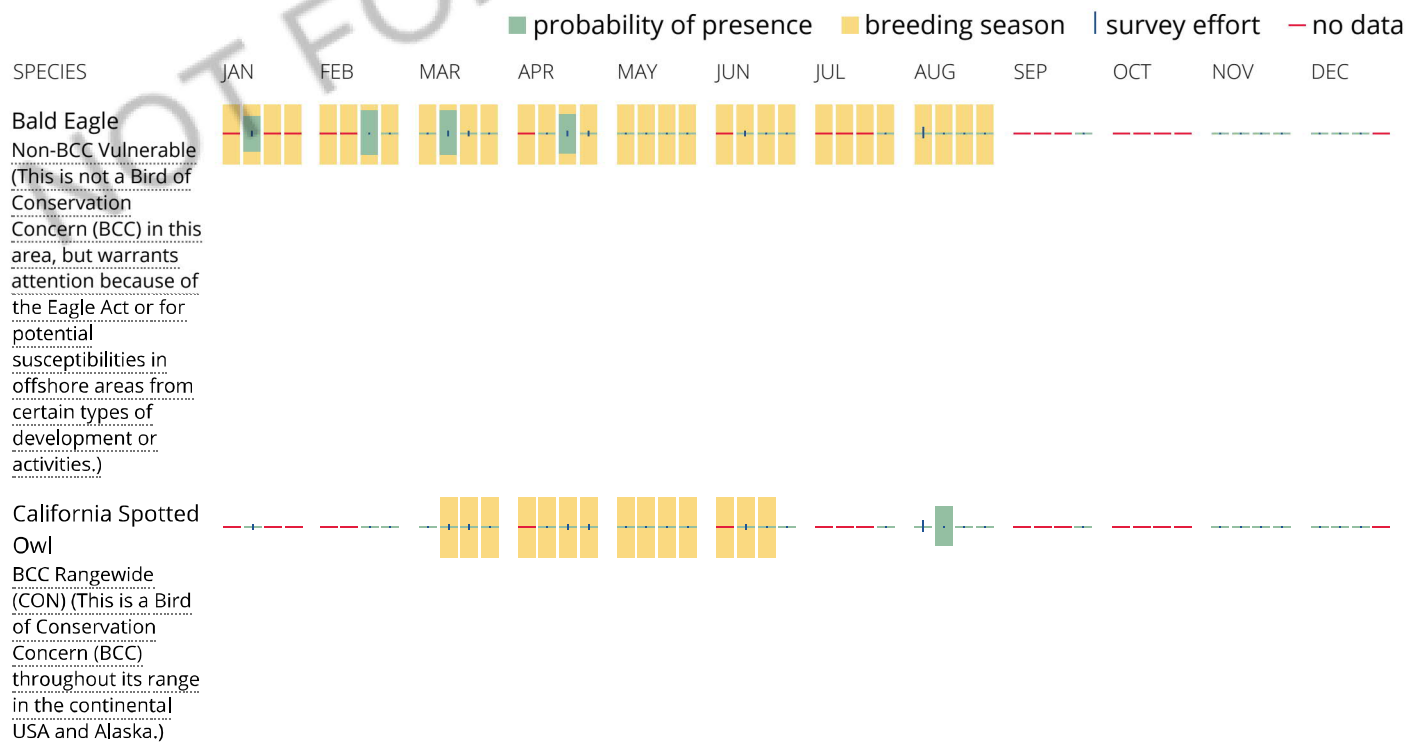
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

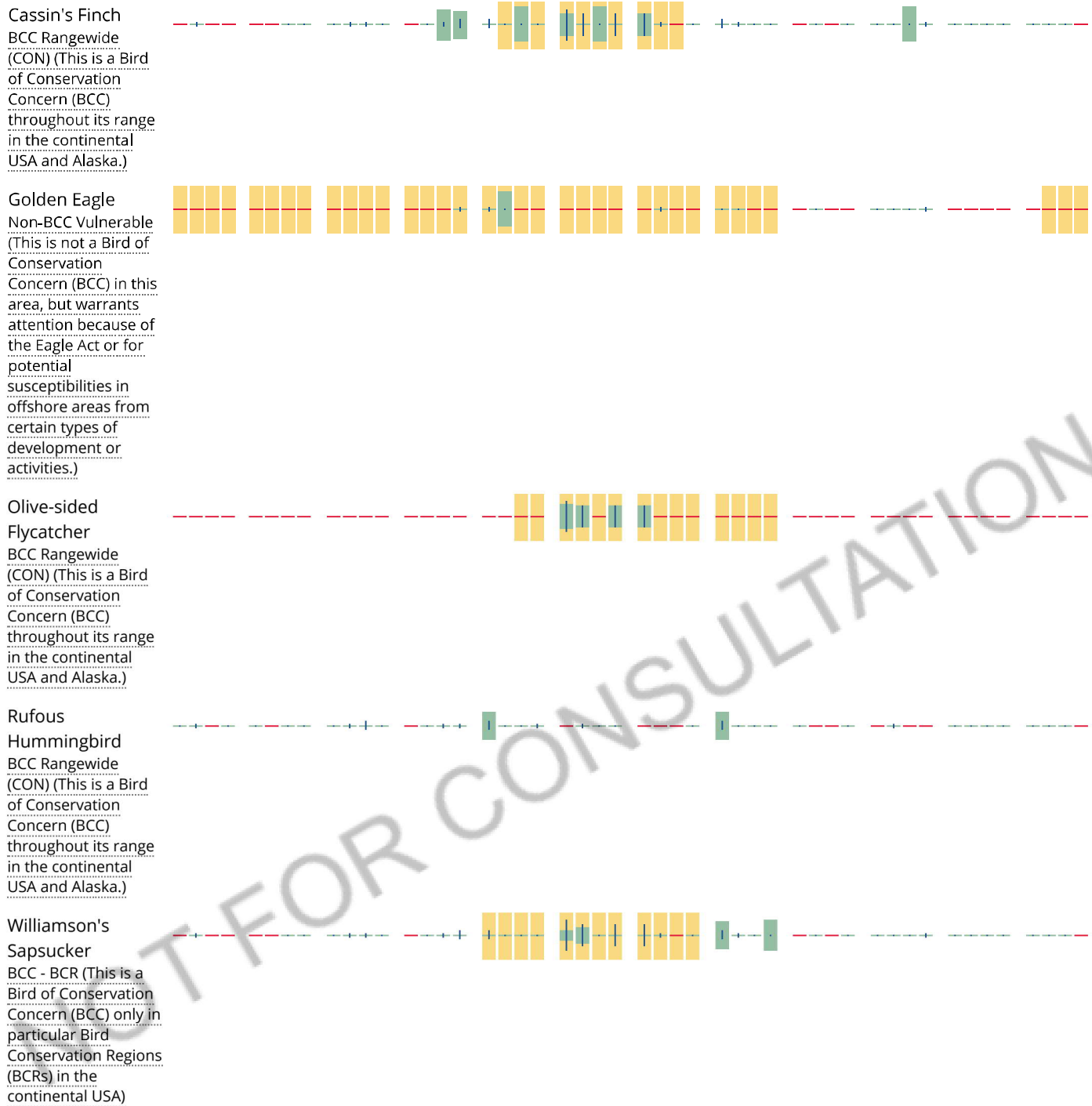
No Data (—)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) and/or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [E-bird Explore Data Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

FRESHWATER FORESTED/SHRUB WETLAND

[PSSC](#)

[PSSCh](#)

LAKE

[L1UBHh](#)

RIVERINE

[R3UBH](#)

[R2UBHx](#)

[R4SBC](#)

[R5UBFx](#)

[R5UBF](#)

A full description for each wetland code can be found at the [National Wetlands Inventory website](#)

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION

APPENDIX C

Cultural Records Memo



Letter No.: EEO2018-3469

October 10, 2018

VIA CERTIFIED MAIL

Gene Whitehouse, Chairman
United Auburn Indian Community of the Auburn Rancheria
10720 Indian Hill Road
Auburn, CA 95603

Subject: AB 52 Notification of Proposed Cal Fire Grant Vegetation Management Project

Dear Gene Whitehouse:

This is a formal notification that El Dorado Irrigation District (District) has decided to undertake the Cal Fire Grant Vegetation Management Project (Project). Catastrophic wild fire is a significant threat to the District's water supply infrastructure and the surrounding communities. This project will include fuel reduction efforts to approximately 570 acres of District owned property spanning four District facilities located in El Dorado County, California:

1. Weber Reservoir- 370 acres
2. Sly Park Recreation Area (SPRA)- 118 acres
3. Camp 5 Maintenance Yard (Camp 5)- 50 Acres
4. Flume 46 on the El Dorado Canal- 24 acres

Each facility will require a combination of fuel reduction methods depending on the location, facility access, slope, and reservoir/riparian zone proximity. Strategies include; hand-cutting and piling, hand-thinning and chipping, lop and scatter, and mechanical mastication.

Best management practices will be implemented during project activities to protect aquatic, terrestrial, and botanical special-status species, waterways and riparian areas, cultural and archaeological resources, and aesthetic and visual resources. A Project location map is enclosed with this letter.

Please respond to my contact information provided below within 30 days if you are interested in beginning consultation regarding this Project activity.

Lead Agency Contact Information:

Doug Venable
Environmental Review Analyst
El Dorado Irrigation District
2890 Mosquito Road
Placerville, CA 95667



Please contact me at 530-642-4187 or dvenable@eid.org if you have any questions.

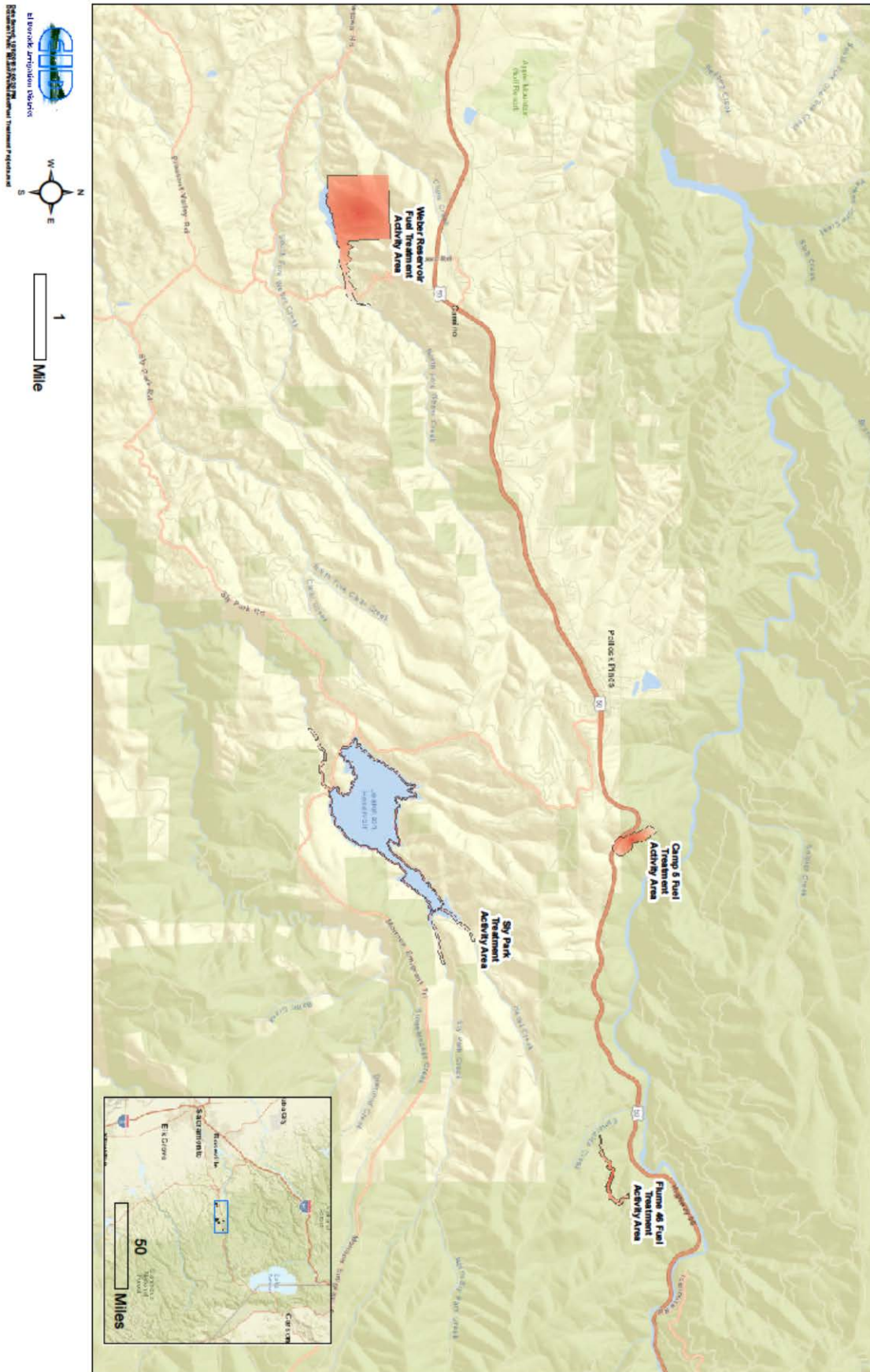
Sincerely,

A handwritten signature in blue ink, appearing to read 'Doug Venable', with a long, sweeping horizontal line extending to the right.

Doug Venable
Environmental Review Analyst

DC:lv

Enclosures: Project Location Map





Letter No.: EEO2018-3470

October 10, 2018

VIA CERTIFIED MAIL

Erin Young
Wopumnes Nisenan-Mewuk Nation of El Dorado County
P.O. Box 1712
Shingle Spring, CA 95682

Subject: AB 52 Notification of Proposed Cal Fire Grant Vegetation Management Project

Dear Erin Young:

This is a formal notification that El Dorado Irrigation District (District) has decided to undertake the Cal Fire Grant Vegetation Management Project (Project). Catastrophic wild fire is a significant threat to the District's water supply infrastructure and the surrounding communities. This project will include fuel reduction efforts to approximately 570 acres of District owned property spanning four District facilities located in El Dorado County, California:

1. Weber Reservoir- 370 acres
2. Sly Park Recreation Area (SPRA)- 118 acres
3. Camp 5 Maintenance Yard (Camp 5)- 50 Acres
4. Flume 46 on the El Dorado Canal- 24 acres

Each facility will require a combination of fuel reduction methods depending on the location, facility access, slope, and reservoir/riparian zone proximity. Strategies include; hand-cutting and piling, hand-thinning and chipping, lop and scatter, and mechanical mastication.

Best management practices will be implemented during project activities to protect aquatic, terrestrial, and botanical special-status species, waterways and riparian areas, cultural and archaeological resources, and aesthetic and visual resources. A Project location map is enclosed with this letter.

Please respond to my contact information provided below within 30 days if you are interested in beginning consultation regarding this Project activity.

Lead Agency Contact Information:

Doug Venable
Environmental Review Analyst
El Dorado Irrigation District
2890 Mosquito Road
Placerville, CA 95667



Please contact me at 530-642-4187 or dvenable@eid.org if you have any questions.

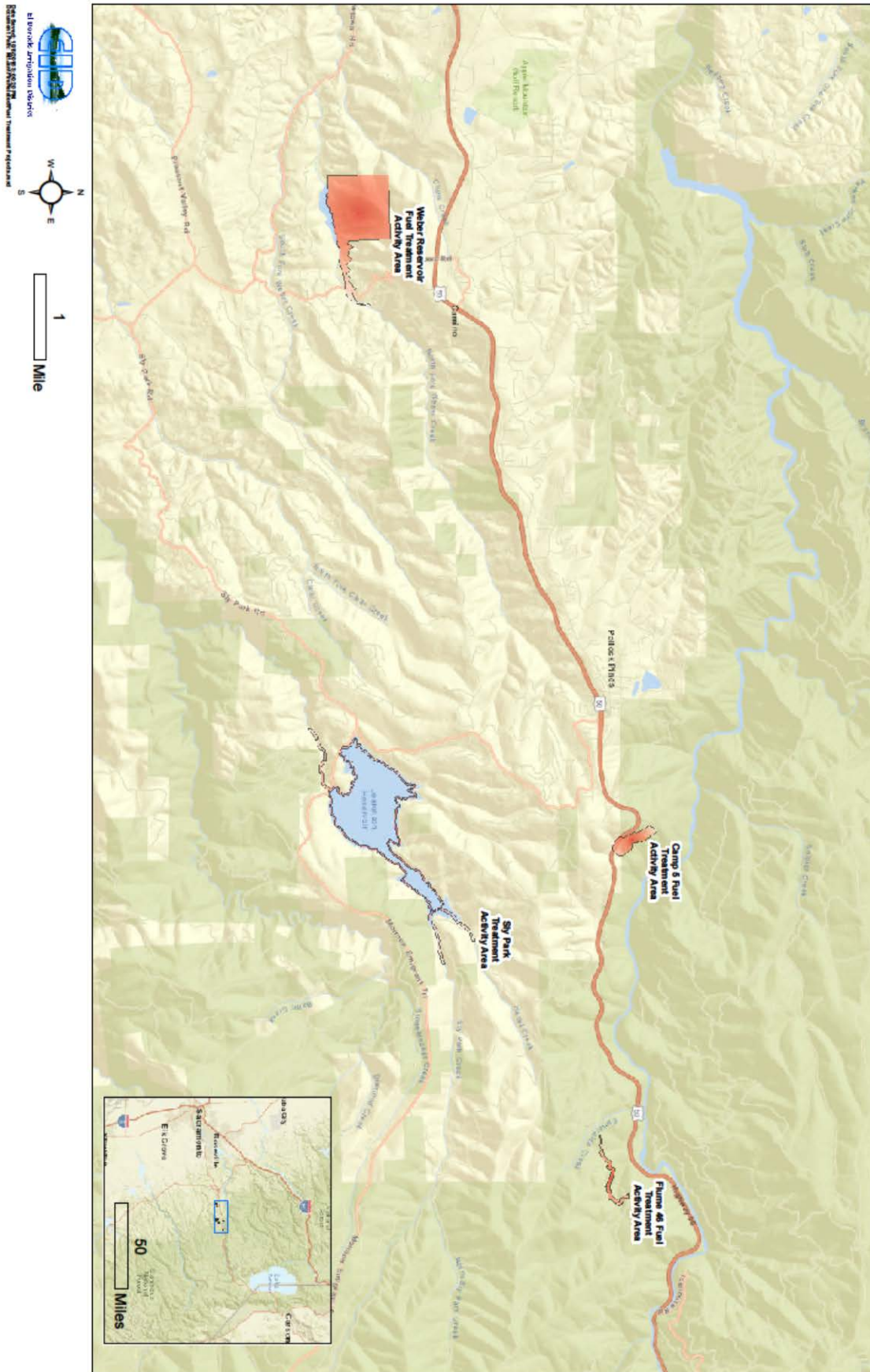
Sincerely,

A handwritten signature in blue ink, appearing to read 'Doug Venable', with a long, sweeping horizontal line extending to the right.

Doug Venable
Environmental Review Analyst

DC:lv

Enclosures: Project Location Map





Letter No.: EEO2018-3471

October 10, 2018

VIA CERTIFIED MAIL

Michael Mirelez
Cultural Resource Coordinator
Torres Martinez Desert Cahuilla Indians
P.O. Box 1160
Thermal, CA 92274

Subject: AB 52 Notification of Proposed Cal Fire Grant Vegetation Management Project

Dear Mr. Mirelez:

This is a formal notification that El Dorado Irrigation District (District) has decided to undertake the Cal Fire Grant Vegetation Management Project (Project). Catastrophic wild fire is a significant threat to the District's water supply infrastructure and the surrounding communities. This project will include fuel reduction efforts to approximately 570 acres of District owned property spanning four District facilities located in El Dorado County, California:

1. Weber Reservoir- 370 acres
2. Sly Park Recreation Area (SPRA)- 118 acres
3. Camp 5 Maintenance Yard (Camp 5)- 50 Acres
4. Flume 46 on the El Dorado Canal- 24 acres

Each facility will require a combination of fuel reduction methods depending on the location, facility access, slope, and reservoir/riparian zone proximity. Strategies include; hand-cutting and piling, hand-thinning and chipping, lop and scatter, and mechanical mastication.

Best management practices will be implemented during project activities to protect aquatic, terrestrial, and botanical special-status species, waterways and riparian areas, cultural and archaeological resources, and aesthetic and visual resources. A Project location map is enclosed with this letter.

Please respond to my contact information provided below within 30 days if you are interested in beginning consultation regarding this Project activity.

Lead Agency Contact Information:
Doug Venable
Environmental Review Analyst
El Dorado Irrigation District
2890 Mosquito Road
Placerville, CA 95667



Please contact me at 530-642-4187 or dvenable@eid.org if you have any questions.

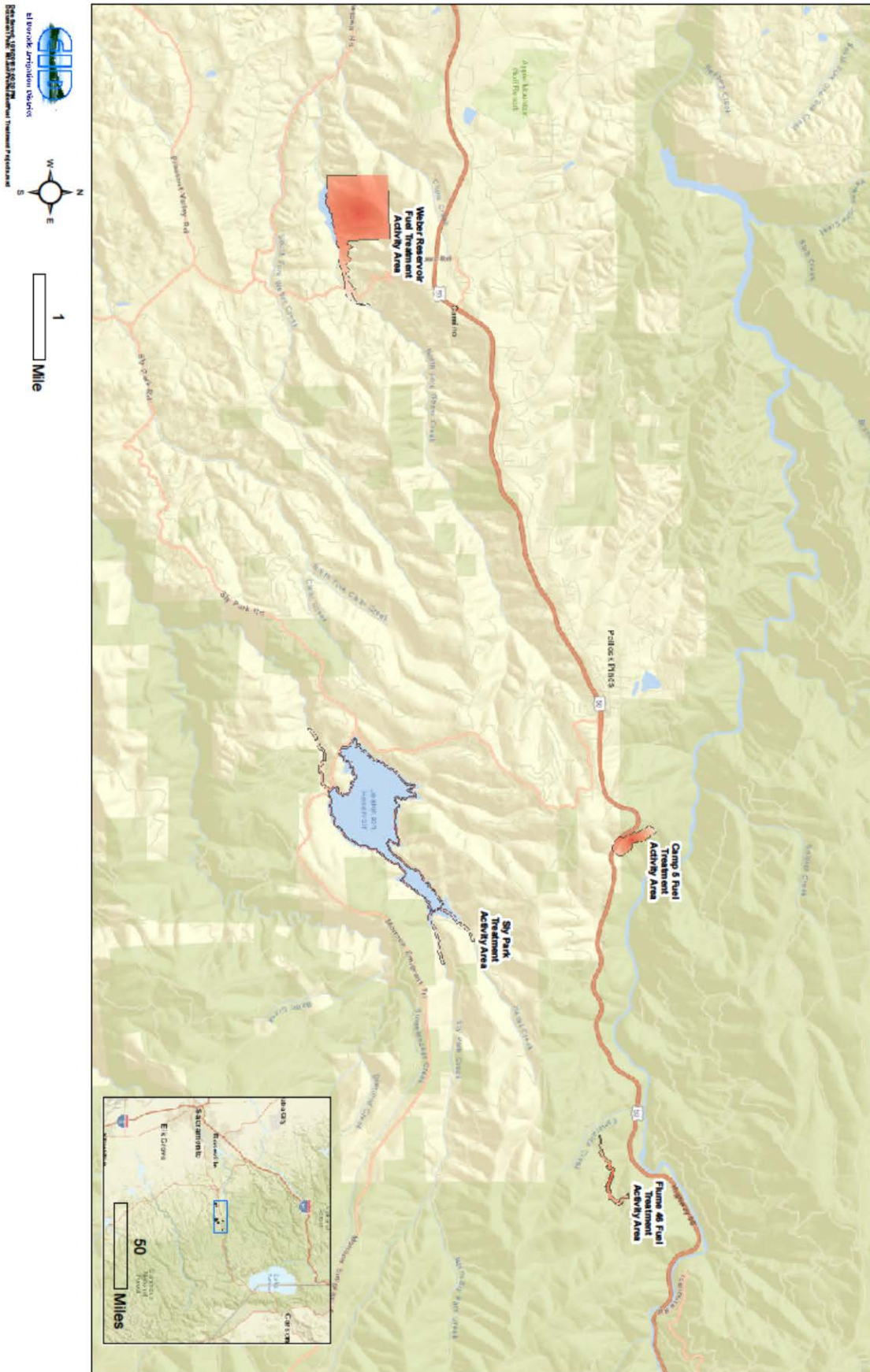
Sincerely,

A handwritten signature in blue ink, appearing to read 'Doug Venable', with a long, sweeping flourish extending to the right.

Doug Venable
Environmental Review Analyst

DC:lv

Enclosures: Project Location Map





Letter No.: EEO2018-3472

October 10, 2018

VIA CERTIFIED MAIL

Steven Hutchason, Executive Director
Environmental Resources Department
Wilton Rancheria
9728 Kent Street
Elk Grove, CA 95624

Subject: AB 52 Notification of Proposed Cal Fire Grant Vegetation Management Project

Dear Mr. Hutchason:

This is a formal notification that El Dorado Irrigation District (District) has decided to undertake the Cal Fire Grant Vegetation Management Project (Project). Catastrophic wild fire is a significant threat to the District's water supply infrastructure and the surrounding communities. This project will include fuel reduction efforts to approximately 570 acres of District owned property spanning four District facilities located in El Dorado County, California:

1. Weber Reservoir- 370 acres
2. Sly Park Recreation Area (SPRA)- 118 acres
3. Camp 5 Maintenance Yard (Camp 5)- 50 Acres
4. Flume 46 on the El Dorado Canal- 24 acres

Each facility will require a combination of fuel reduction methods depending on the location, facility access, slope, and reservoir/riparian zone proximity. Strategies include; hand-cutting and piling, hand-thinning and chipping, lop and scatter, and mechanical mastication.

Best management practices will be implemented during project activities to protect aquatic, terrestrial, and botanical special-status species, waterways and riparian areas, cultural and archaeological resources, and aesthetic and visual resources. A Project location map is enclosed with this letter.

Please respond to my contact information provided below within 30 days if you are interested in beginning consultation regarding this Project activity.

Lead Agency Contact Information:
Doug Venable
Environmental Review Analyst
El Dorado Irrigation District
2890 Mosquito Road
Placerville, CA 95667



Please contact me at 530-642-4187 or dvenable@eid.org if you have any questions.

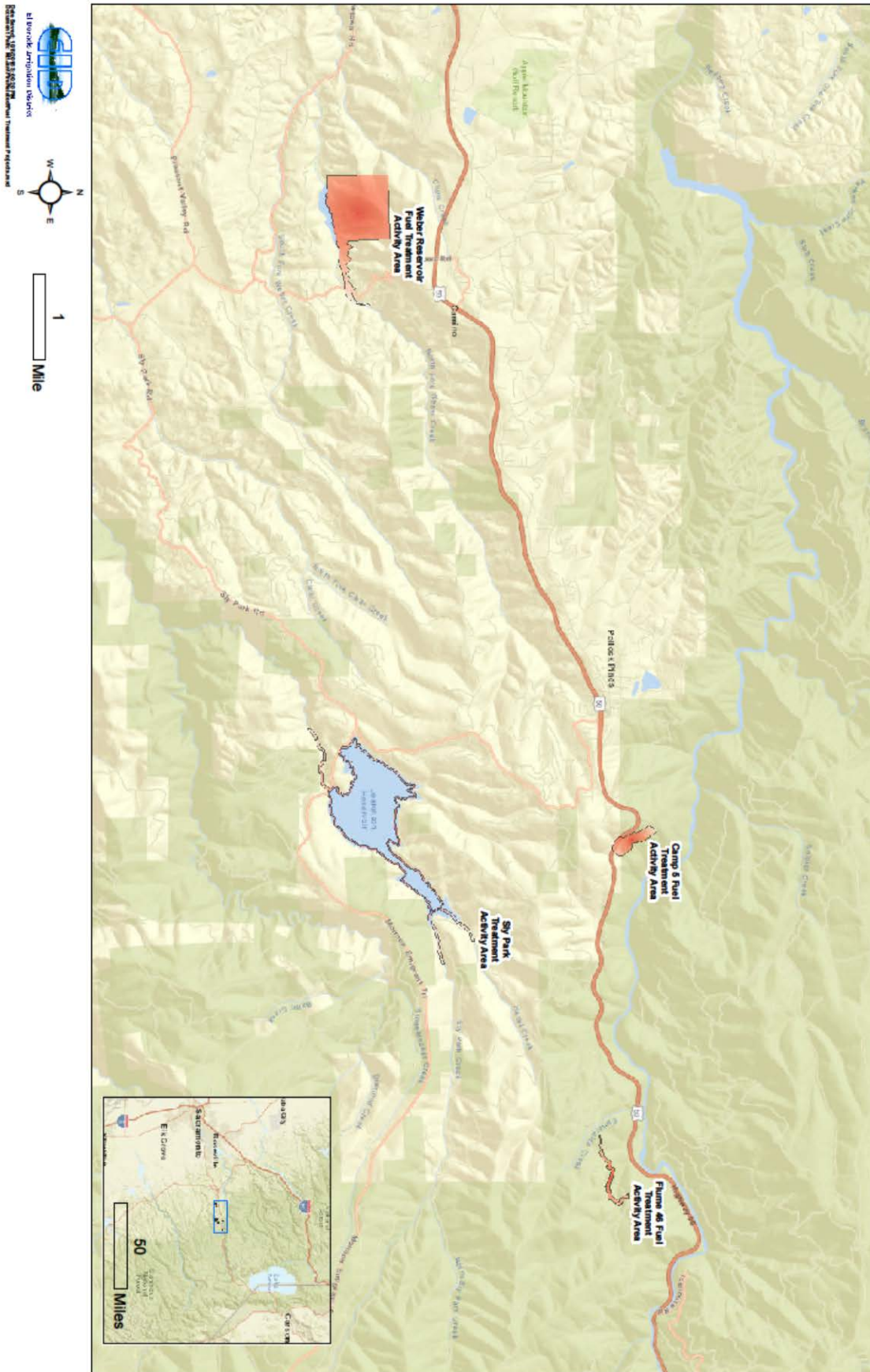
Sincerely,

A handwritten signature in blue ink, appearing to read 'Doug Venable', with a long, sweeping horizontal line extending to the right.

Doug Venable
Environmental Review Analyst

DC:lv

Enclosures: Project Location Map



Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
000464		1969	Olsen, William H. (uncertain)	Survey of the El Dorado Canal, Powerhouse, Forebay, and Intake Dam, El Dorado County, California.		09-000221, 09-000232
001368		1998	Stewart, Mark	Confidential Archaeological Addendum for Timber Operations on Non-Federal Lands in California for Union Hill Timber Harvest Plan.		
008669		1991	Leslie Glover, Stephen Wee, and Rand Herbert	Archaeological Survey and Historical Research Report on the El Dorado Canal	Far Western/ JRP	09-000599
008740		2005	Scott Billat	Fresh Pond/CA-1328B	EarthTouch Inc.	
008759		2004	Mark Stewart	An Archaeological Survey Report for the Thorne THP, El Dorado County, California	RPF #2308	
008774		1994	David Levy	Carleton-Hwy 50 THP	David Levy Forestry	09-000599, 09-000809, 09-004136, 09-004137
008776		2001	Robert W. Allen	Green THP		
009003		2003	Sharon Waechter, Stephen Wee, Meredith Rucks, Mary Maniery, Darren Andolina, and Eric Wohlgemuth	Proposed Relicensing of the El Dorado Hydroelectric Project (FERC Project 184)	Far Western Anthropological Research Group, Inc.; JRP Historical Consulting Services; Summir Envirosolutions; PAR Environmental Consulting Services	03-000067, 03-000154, 03-000157, 03-000526, 03-000527, 03-000528, 03-000529, 03-000530, 03-000531, 03-000532, 03-000533, 03-000534, 03-000535, 03-000536, 03-000537, 03-000538, 03-000539, 03-001204, 03-001240, 03-001241, 03-001456, 03-001457, 03-001458, 03-001459, 03-001460, 03-001461, 03-001464, 03-001465, 09-000105, 09-000109, 09-000221, 09-000410, 09-000413, 09-000519, 09-000599, 09-000638, 09-000779, 09-000780, 09-000781, 09-000782, 09-000809, 09-001327, 09-001328, 09-001329, 09-001331, 09-001332, 09-001333, 09-001334, 09-001335, 09-001336, 09-003231, 09-003451, 09-003453, 09-003454, 09-003456, 09-003675, 09-003676, 09-004111, 09-004147, 09-004245, 09-004247, 09-004248, 09-004249, 09-004250, 09-004251, 09-004252, 09-004253, 09-004254, 09-004255, 09-004256, 09-004257, 09-004258, 09-004259, 09-004260, 09-004262, 09-004263, 09-004264, 09-004265, 09-004266, 09-004268, 09-004269, 09-004997

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
009338		1990	Lisa Shapiro	CRI for the Pacific Bell Project, El Dorado National Forest, California	PAR Environmental Services, Inc.	
009712		1993	Deal, Krista	1992 Tractor Salvage Sales El Dorado and Placer Counties, California ARRA 05-03-331-122	El Dorado National Park, Pacific Ranger District	09-003900, 09-004884, 09-004885, 09-004886, 09-004887, 31-003626
009713		1992	Deal, Krista	Pacific Ranger District 1991 Salvage Sales El Dorado and Placer Counties, California ARRA 05-03-331-85	El Dorado National Forest, Pacific Ranger District	09-004876, 09-004877, 09-004878, 09-004879, 09-004880, 09-004881, 09-004882, 09-004883
010076		2008	Mark Stewart	Mountaineers THP	Stewart Forestry LLC	
011347		2008	Leslie R. Fryman	NRHP and CRHR Evaluation of CA-ELD-226H (Camp 5), El Dorado Irrigation District	Albion Environmental, Inc	09-003451

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-09-000599	CA-ELD-000511H	Resource Name - El Dorado Canal; USFS - 05-03-56-78; Other - Plum Creek Temp. #8; Other - AC-55; Other - El Dorado Ditch; Other - Alder Creek Canyon Bench Walls	Structure, Site	Historic	AH06 (Water conveyance system); HP04 (Ancillary building); HP11 (Engineering structure); HP20 (Canal/aqueduct)	1977 (Jim Heale, Jim Woodward, Forest Service); 1983 (Sally Salzman, Forest Service); 1984 (L. GODDARD); 1990 (A. Glenn Caruso, Caruso Cultural Resource Management); 1994 (David Levy, David Levy Forestry); 2002 (Stephen Wee, Andrew Walters, JRP Historical Consulting Services); 2002 (CHRISTOPHER MCMORRIS; ANDREW WALTERS, JRP HISTORICAL CONSULTING); 2002 (James J. Kral, Kral's Progressive Forestry); 2002 (Stephen Wee, JRP Historical Consulting Services); 2002 (STEPHEN WEE; ANDREW WALTERS, JRP HISTORICAL CONSULTING); 2002 (James J. Kral, Kral's Progressive Forestry); 2003 (James J. Kral, Kral's Progressive Forestry); 2005 (Mark Stewart, RPF #2308); 2005 (T FERNANDEZ; K QUIDACHAY, EID); 2005 (Leslie Fryman, Trish Fernandez); 2008 (Mark Bowen, Trish Fernandez, Jones and Stokes)	000076, 008253, 008669, 008752, 008774, 008775, 008781, 008786, 009003, 009990, 010740, 012219, 012521
P-09-003309	CA-ELD-002177H	Resource Name - Lower Ogilby Grade; USFS - 05-03-56-723; Other - Road A; Other - Road B; Other - Upper Ogilby Grade	Site	Historic	AH07 (Roads/trails/railroad grades)	1993 (R. Palmer and K. Lambert, USDA, Forest Service, Eldorado National Forest); 1993 (USFS)	011342

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-09-003456	CA-ELD-002230H	Other - CA-4; Other - Ditch Camp 3; Other - Western States Gas and Electric Company's Ditch Camp 3	Site	Historic	AH02 (Foundations/structure pads); AH04 (Privies/dumps/trash scatters); AH06 (Water conveyance system); AH07 (Roads/trails/railroad grades); AH11 (Walls/fences)	2002 (M. Darcangelo and J. Collins, Far Western Anthropological Research Group, Inc.); 2006 (R. Scott Baxter, Trish Fernandez, Shelley Janek)	008865, 009003
P-09-004264		USFS - 05-03-56-822; Other - CA-3	Site	Historic	AH07 (Roads/trails/railroad grades)	2002 (E. Wohlgemuth, L. Johnson, Far Western Anthropological Research Group, Inc.)	009003
P-09-004339		Resource Name - Esmeralda Sawmill Site	Site	Historic	AH02 (Foundations/structure pads); AH04 (Privies/dumps/trash scatters)	1996 (James McDaniel, Jr., Western Timberlans Consulting); 2006 (Kim Thibeault, Sierra Pacific Industries)	009223

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-09-000351	CA-ELD-000263	Resource Name - Arrowhead Camp Site; Other - Pine Cone Site	Site, Other	Prehistoric	AP04 (Bedrock milling feature); AP05 (Petroglyphs); AP15 (Habitation debris)	1979 (ANN S. PEAK); 1985 (J STARNS); 1985 (J STARNS); 1991 (JEAN STARNS); 1992 (JEAN STARNS); 2003 (ALICIA PEREZ, WINDMILLER CONSULTING); 2014 (Trish Fernandez); 2018 (Justin Wisely, Cassy Brainard, Far Western Anthropological Research Group, Inc.)	004688, 004747, 004748, 005085, 006525, 008108, 008805, 012611
P-09-000816	CA-ELD-000728	Resource Name - Sly Park Picnic Ground Site; Other - SP-P-18; Other - SP-P-16; Other - Pearson's Point		Prehistoric	AP04 (Bedrock milling feature); AP15 (Habitation debris)	1977 (James M. Snoke); 1977 (James M. Snoke); 1985 (J. Starns, E.I.D.); 1985 (J. Starns, E.I. D.); 1986 (J Starns); 1986 (J. Starns, E.I.D.); 1986 (J. Starns); 1986 (J Starns); 1987 (J Starns); 1987 (J. Starns); 1987 (J. Starns); 1991 (Jean Starns, El Dorado Irrigation District); 2003 (Ric Windmiller, Bureau of Reclamation)	004707, 004756, 005085, 006525, 007038, 008108
P-09-001792		Other - JL-01	Site	Prehistoric	AP04 (Bedrock milling feature)	2003 (Ric Windmiller, Consulting Archaeologist)	008108
P-09-001793	CA-ELD-002092	Other - JL-02	Site	Prehistoric	AP04 (Bedrock milling feature)	2003 (Ric Windmiller, BLM)	006525, 008108
P-09-001794		Other - JL-03	Other	Prehistoric	AP04 (Bedrock milling feature)	2003 (Ric Windmiller, Consulting Archaeologist)	
P-09-001796		Resource Name - Sly Park Dam	Site	Historic	HP21 (Dam)	2003 (Donald S. Napoli)	006525, 008108
P-09-001797		Other - JL-06	Other	Historic	AH05 (Wells/cisterns)	2003 (Ric Windmiller, Consulting Archaeologist)	008108
P-09-001798	CA-ELD-001331	Other - JL-07		Prehistoric	AP04 (Bedrock milling feature)	1985 (J Starns, El Dorado Irrigation District); 2003 (Ric Windmiller)	008108

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-09-001799		Resource Name - Camp Creek Diversion Tunnel and North Portal; Other - JL-08	Structure	Historic	AH06 (Water conveyance system); HP20 (Canal/aqueduct)	2003 (Ric Windmiller, Consulting Archaeologist); 2003 (Donald S. Napoli)	006525, 008108
P-09-001800	CA-ELD-002093H	Other - JL-09	Site	Historic	AH07 (Roads/trails/railroad grades)	2003 (Ric Windmiller, Bureau of Reclamation)	004589, 008108
P-09-001801		Other - JL-10	Other	Historic	AH16 (Other) - fence posts	2003 (Ric Windmiller, Consulting Archaeologist)	004589, 008108
P-09-001802	CA-ELD-002094H	Other - JL-11	Site	Historic	AH04 (Privies/dumps/trash scatters)	2003 (Ric Windmiller, Bureau of Reclamation)	006525, 008108
P-09-001803		Other - JL-12	Other	Historic	AH16 (Other)	2003 (Ric Windmiller, Consulting Archaeologist)	008108
P-09-001804		Other - JL-13	Object	Historic	AH16 (Other) - iron plate	2003 (Ric Windmiller, Consulting Archaeologist)	008108
P-09-001805		Other - JL-14	Object	Historic	AH04 (Privies/dumps/trash scatters)	2003 (Ric Windmiller, Consulting Archaeologist)	008108
P-09-001806		Other - JL-15	Site	Historic	AH09 (Mines/quarries/tailings)	2003 (Ric Windmiller, Consulting Archaeologist)	008108
P-09-001809	CA-ELD-002096H	Other - JL-18	Site	Historic	AH09 (Mines/quarries/tailings)	2003 (Ric Windmiller, Consulting Archaeologist)	006525, 008108
P-09-001810	CA-ELD-002097H	Other - JL-19	Site	Historic	AH07 (Roads/trails/railroad grades); AH09 (Mines/quarries/tailings)	2003 (Ric Windmiller, Bureau of Reclamation)	004716, 004727, 006525
P-09-001811	CA-ELD-002098H	Other - JL-20	Site	Historic	AH07 (Roads/trails/railroad grades)	2003 (Ric Windmiller, Consulting Archaeologist)	006525
P-09-001812	CA-ELD-001332	Resource Name - Stonebraker Site	Site	Prehistoric	AP04 (Bedrock milling feature)	1986 (J Starns, El Dorado Irrigation District); 1987 (Jean Starns, El Dorado Irrigation District); 2003 (Ric Windmiller)	006525, 008108

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-09-001813	CA-ELD-001333H	Resource Name - Bishop Goodman House Site; Other - The Chimneys Site; Other - SP-4-H	Other	Historic	AH02 (Foundations/structure pads)	1993 (Jean Starns, El Dorado Irrigation District); 2003 (Ric Windmiller)	006525, 008108
P-09-001814		Resource Name - Pine Cone Site	Site	Prehistoric	AP04 (Bedrock milling feature)	1985 (J. Starns, El Dorado Irrigation District); 2003 (Ric Windmiller, Consulting Archaeologist)	006525
P-09-001815	CA-ELD-001334H	Resource Name - Phippens West/Placerville Lumber; Other - SP 3H; Other - Phippens West Lumber Mill Site	Site	Historic	AH02 (Foundations/structure pads)	1993 (Cherly Goss, Jean Starns, El Dorado Irrigation District); 2003 (Ric Windmiller)	006525, 008108
P-09-001816	CA-ELD-001335	Other - Site 1	Site	Prehistoric	AP04 (Bedrock milling feature)	1985 (J Starns, C Goss, El Dorado Irrigation District); 2003 (Ric Windmiller)	006525, 008108
P-09-001817		Resource Name - Hilltop Camp site	Other	Prehistoric	AP04 (Bedrock milling feature); AP16 (Other) - isolate	(J. Starns, EID); 2003 (Alicia Perez, Windmiller Consulting)	006525, 008108
P-09-001896		Resource Name - Jenkinson Lake; Other - Sly Park Reservoir	Site	Historic	HP22 (Lake/river/reservoir)	2003 (Donald S. Napoli)	008108
P-09-001897		Resource Name - Sly Park Storage Shed	Structure	Historic	HP04 (Ancillary building)	2003 (Donald S. Napoli)	
P-09-001898		Resource Name - Sly Park Dam Tender's House	Structure	Historic	HP02 (Single family property)	2003 (Donald S. Napoli)	008108
P-09-002019	CA-ELD-001419		Site	Prehistoric	AP02 (Lithic scatter)	1992 (DANA E SUPERNOWICZ)	004716, 004724, 004727
P-09-002034		Other - PSI#2 Dry Gulch Ditch	Site	Historic	AH06 (Water conveyance system)	2001 (Robert Little)	004723
P-09-002079	CA-ELD-001449	Resource Name - Kamloop Hill Site	Site	Prehistoric	AP04 (Bedrock milling feature)	1985 (J. Starns, Eldorado Irrigation District)	
P-09-002080	CA-ELD-001450		Site	Prehistoric	AP04 (Bedrock milling feature)	1985 (J. Starns, Eldorado Irrigation District)	008108
P-09-002081	CA-ELD-001451	Other - SOFAR PS-04	Site	Prehistoric	AP04 (Bedrock milling feature)	1977 (James M. Snoke, USFS); 1978 (Gerry, Niemoyer, S. Peak, USFS)	004756, 006565

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-09-002082		Resource Name - Historic mining ditch; Other - SP-1; Other - SP-2 & Sp-3; Other - Dry rock walls and a segment of historic ditch system	Site	Historic	AH06 (Water conveyance system)	1992 (Jean Starns, Cultural Resource Analyst, Planning Division, Engineering Department, El Dorado Irrigation District)	008108
P-09-003181	CA-ELD-002091H	Resource Name - Sly Park Historic District	Site, District	Historic	HP02 (Single family property); HP04 (Ancillary building); HP20 (Canal/aqueduct); HP21 (Dam); HP22 (Lake/river/reservoir); HP70 (Tunnel or Underpass)	2003 (Donald S. Napoli)	006525, 008108
P-09-004282		Resource Name - Carbine Ridge Milling Site; Other - Site 2; Other - Site 2 for Carbine THP	Site	Prehistoric	AP04 (Bedrock milling feature)	2007 (Gary E. Gould, State of California - The Resources Agency, Department of Parks and Recreation)	009028
P-09-004416	CA-ELD-002764H	Other - Jenkinson Road 1; USFS - 05-03-56-922	Site	Historic	AH07 (Roads/trails/railroad grades)	2007 (J. Connolly, C. Westphal, R. Vardy, USFS)	
P-09-004418	CA-ELD-002766H	Resource Name - Louis LePettit's Grade Road; Other - Stonebreaker Grade; USFS - 05-03-56-924	Site	Historic	AH07 (Roads/trails/railroad grades)	2007 (J. Connolly, C. Westphal, and R. Vardy, USFS)	
P-09-004420	CA-ELD-002767H	Resource Name - The Road to Cutler's Mill; USFS - 05-03-56-928	Site	Prehistoric	AH07 (Roads/trails/railroad grades)	2007 (J. Connolly, USFS)	
P-09-005391		Resource Name - White Rock Site	Site	Prehistoric	AP04 (Bedrock milling feature)	2010 (Matthew Waverly, Sierra Pacific Industries)	010672
P-09-005395		Resource Name - Road from Diamond Springs to Carson Valley	Site	Historic	AH07 (Roads/trails/railroad grades)	2009 (Matthew Waverly, Sierra Pacific Industries)	010672
P-09-005861	CA-ELD-003074	Resource Name - 516-4-01	Site	Prehistoric	AP02 (Lithic scatter)	2008	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
000410		1979	Rondeau, Michael F.	An Archeological Reconnaissance of the Proposed Gold Strike Subdivision, El Dorado County, California	Archaeological Study Center California State University, Sacramento	09-000512, 09-000513
000803		1998	Kral, James J.	Confidential Archaeological Addendum for Timber Operations on Non-Federal Lands in California for Rancho THP	Stewart Forestry	09-000513, 09-001196
000846		1991	Supernowicz, Dana E.	Archaeological Survey Report of Assessor's Parcel Number 77:800:03, a Proposed Parcel Split, El Dorado County, California		
000848		1991	Supernowicz, Dana E.	Archaeological Survey Report of Assessor's Parcel Number 77:810:07, a Proposed Parcel Split, El Dorado County, California		
000859		1990	Supernowicz, Dana E.	Archaeological Survey Report of Rancho Del Sol, Units 3 and 4, a Subdivision, El Dorado County, California		09-000513
000862		1995	Stewart, Mark	Archaeological and Historical Resources Survey and Impact Assessment for Schaefer/Beliz THP		09-001159
000892		1998	Wagener, John C.	Confidential Archaeological Addendum for Timber Operations on Non-Federal Lands in California for Weber Timber Harvest Plan		
000962		1996	Starns, Jean E.	Camino Conduit Maintenance, Cultural Resource Report, Project Number 7080, El Dorado Irrigation District	El Dorado Irrigation District	
001215		1998	Allen, Robert W.	Confidential Archaeological Addendum for Timber Operations on Non-Federal Lands in California for Miller THP Amendment		
003511		1995	Gilbert, Carlys	Archeological Review of THP 4-95-30/ELD-17 Miller THP		
003520		1992	Heipel, Steve and Shapiro, William	A Cultural Resource Survey For The Proposed Camino Canyon Development Project, El Dorado County, California	PAR Environmental Services, Inc.	09-000233, 09-001458, 09-001459, 09-001460, 09-001461, 09-001462, 09-001463, 09-001464, 09-001465, 09-001466, 09-001467, 09-001469, 09-001470, 09-001471, 09-001472, 09-001473
003577		1998	Hanna, David C.	El Dorado Irrigation District, California Webber Dam Seismic Retrofit Project Cultural Resources		

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
003578		1991	Starns, Jean E.	WEBBER DAM DSOD PROJECT CULTURAL RESOURCES SURVEY EI Dorado Irrigation District Project Number 87000, Work Order Number 2470	El Dorado Irrigation District	09-001510, 09-005443, 09-005444
003578B		1928	Noetzli, Fred	Report on Arch Type of Dam on Webber Creek, California for the Eldorado irrigation District		
003578C		1991	Supernowicz, Dana	ADDENDUM TO WEBBER DAM DSOD PROJECT CULTURAL RESOURCES EVALUATION AND DETERMINATION OF ELIGIBILITY EL DORADO COUNTY, CALIFORNIA		
005988		1995	Allen, Robert W.	Archaeological and Historical Resources Survey for Miller Timber Harvest Plan		
006020		1996	Davies, James	Confidential: Archaeological and Historical Resources Survey & Impact Assessment A Supplemental Report for a Timber Harvesting Plan. Camino THP		
006047		1978	Snoke, James M.	Archaeological Reconnaissance of the Weber Creek Drainage: 1978 Timber Sale	American River College	
006863		2005	Allen, Robert W.	Confidential Archaeological Addendum for Timber Operations on Non-Federal Lands in California Project Name: Heflin THP		
009293		2008	Dana Supernowicz	Cultural Resources Study of Assessors Parcel No. 077:810:14, East of Snows Road, Camino, El Dorado County, California 95709	Historic Resource Associates	
010258		2008	Allen, Robert	Heflin THP/Amendment		09-001466

Mitigation Monitoring and Reporting Program
El Dorado Irrigation District
Vegetation Management Project

Prepared for:



El Dorado Irrigation District

AECOM

June 2019

Mitigation Monitoring and Reporting Program
El Dorado Irrigation District
Vegetation Management Project

Prepared for:



El Dorado Irrigation District
2890 Mosquito Road
Placerville, CA 95667

Contact:

Doug Venable
Environmental Review Analyst
530/ 642-4187

Prepared by:

AECOM
2020 L Street, Suite 400
Sacramento, CA 95811

Contact:

Ken Koch
916/414-5853

AECOM

June 2019

TABLE OF CONTENTS

MITIGATION MONITORING AND REPORTING PROGRAM	MMRP-1
Introduction.....	MMRP-1
Purpose of Mitigation Monitoring and Reporting Program.....	MMRP-1
Roles and Responsibilities	MMRP-1
Mitigation Monitoring Plan	MMRP-2

Table

Table 1 Summary of Mitigation Measures, Responsible Parties, and Timing	MMRP-3
---	--------

This page intentionally left blank.

MITIGATION MONITORING AND REPORTING PROGRAM

INTRODUCTION

In accordance with the California Environmental Quality Act (CEQA), El Dorado Irrigation District (EID) has prepared an initial study/mitigated negative declaration (IS/MND) that identifies environmental impacts related to the implementation of the El Dorado Irrigation District Vegetation Management Project. The IS/MND also identifies mitigation measures that will be implemented to reduce potential significant impacts to a less-than-significant level.

Section 21081.6 of the California Public Resources Code and Sections 15091(d) and 15097 of the CEQA Guidelines require public agencies “to adopt a reporting and monitoring program for changes to the project which it has adopted or made a condition of project approval in order to mitigate or avoid significant effects on the environment.” A mitigation monitoring and reporting program (MMRP) is required for the proposed project because the IS/MND identifies potentially significant and significant adverse impacts related to vegetation clearance activities, and mitigation measures have been identified to mitigate those impacts.

EID is the lead agency that must adopt the MMRP for the proposed project. Adoption of this MMRP will occur along with approval of the proposed project.

PURPOSE OF MITIGATION MONITORING AND REPORTING PROGRAM

This MMRP has been prepared to ensure that all required mitigation measures are implemented and completed according to schedule and maintained in a satisfactory manner during the construction and operation of the proposed project. The MMRP may be modified by EID during project implementation, as necessary, in response to changing conditions or other refinements. Table 1 has been prepared to assist the responsible parties in implementing the MMRP. The table identifies individual mitigation measures, monitoring/mitigation timing, the person and/or agency responsible for implementing the measure, and space to confirm implementation of the mitigation measures. The numbering of mitigation measures follows the numbering sequence found in the IS/MND.

ROLES AND RESPONSIBILITIES

EID is responsible for taking all actions necessary to implement the mitigation measures according to the specifications provided for each measure and for demonstrating that the action has been successfully completed. EID, at its discretion, may delegate implementation responsibility or portions thereof to a licensed contractor or other designated agent as long as EID maintains final responsibility for ensuring that the actions are taken.

EID will be responsible for overall administration of the MMRP and for verifying that EID staff members and/or the contractor has completed the necessary actions for each measure. EID will designate a project manager to oversee the MMRP. The project manager will be charged with the following duties:

- ▶ Ensure that routine inspections of the construction site are conducted by appropriate EID staff; check plans, reports, and other documents required by the MMRP; and conduct report activities

- ▶ Serve as a liaison between EID and other responsible agencies (where necessary), and the construction contractor regarding mitigation monitoring issues
- ▶ Complete forms and maintain reports and other records and documents generated by the MMRP
- ▶ Coordinate and ensure that corrective actions or enforcement measures are taken, if necessary

The responsible party for implementation of each item will identify the staff members responsible for coordinating with EID on the MMRP.

MITIGATION MONITORING PLAN

EID will verify the implementation of mitigation measures. Table 1 provides a template that EID can use to monitor and report on the implementation of mitigation measures.

The column categories identified in Table 1 are described below:

- ▶ **Mitigation Measure**—This column lists the mitigation measures according to the number in the IS/MND and provides the text of the mitigation measures identified in the IS/MND.
- ▶ **Party Responsible for Monitoring**—This column identifies the entity responsible for complying with the requirements of the mitigation measure.
- ▶ **Timeframe for Implementation**—This column lists the time frame in which the mitigation will take place.
- ▶ **Monitoring Compliance**—This column is for verifying compliance. The column is to be dated and initialed by the project manager or his/her designee, based on the documentation provided by the construction contractors, its agents (qualified individuals), or through personal verification by EID.

Table 1 Summary of Mitigation Measures, Responsible Parties, and Timing			
Mitigation Measure	Party Responsible for Monitoring	Timeframe for Implementation	Monitoring Compliance (Provide Name/Date)
3.4 Biological Resources			
<p>BIO-1: Conduct Pre-Construction Surveys for Special-status Plants</p> <p>Before project implementation, EID will conduct appropriately-timed botanical surveys for all areas of project-related ground disturbance that could support special-status plant populations. Floristic surveys will be conducted by a qualified botanist during the species' blooming period in accordance with methods described in CDFW's 2018 Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities (CDFW 2018).</p> <p>If no special-status plants are found during focused surveys, the findings will be documented in a letter report, and no further mitigation would be required.</p> <p>If special-status plants are found during focused surveys but impacts would be completely avoided, the findings will be documented in a letter report, and locations of special-status plant populations clearly identified in the field by staking or flagging before vegetation removal activities. No project activity would occur in the marked areas. If special-status plants found during focused surveys cannot be completely avoided, an appropriate mitigation plan would be developed. This plan may include one or more of the following measures: erecting protective fencing (for indirect impact), providing worker education, locating and enhancing another off-site population of the species, or transplanting the population to suitable nearby habitat.</p>	EID and contractor	Surveys completed before vegetation clearance activities begin.	
<p>BIO-2: Conduct Pre-Construction Surveys for Raptors and Migratory Birds</p> <p>Trees and vegetation are planned to be removed outside the nesting season, August 16 through February 14. If construction occurs between February 15 and August 15, EID will conduct preconstruction surveys for active nests of special-status and MBTA protected birds before the start of any project activities. Surveys for nesting raptors will be conducted in accordance with established CDFW raptor survey protocols. If active nests are found, EID will establish avoidance buffers around nests that are sufficient so that breeding is not likely to be disrupted or adversely affected by project activities. An avoidance buffer will constitute an area where project-related activities (i.e., vegetation removal, earth moving, and construction) will not occur. Typical avoidance buffers during the nesting season will be 100 feet</p>	EID and contractor.	Surveys completed before vegetation clearance activities begin.	

**Table 1
Summary of Mitigation Measures, Responsible Parties, and Timing**

Mitigation Measure	Party Responsible for Monitoring	Timeframe for Implementation	Monitoring Compliance (Provide Name/Date)
<p>for nesting passerine birds and 500 feet for nesting raptors unless a qualified biologist determines that smaller buffers will be sufficient to avoid impacts on nesting raptors and/or other birds. Factors to be considered for determining buffer size will include: the presence of natural buffers provided by vegetation or topography; nest height; locations of foraging territory; and baseline levels of noise and human activity. A qualified biologist will monitor any active nests during construction, to ensure that the species is not being harmed or harassed by the noise or activity resulting from project-related activities. Buffers will be maintained until a qualified biologist has determined that young have fledged and are no longer reliant on the nest or parental care for survival.</p>			

**Table 1
 Summary of Mitigation Measures, Responsible Parties, and Timing**

Mitigation Measure	Party Responsible for Monitoring	Timeframe for Implementation	Monitoring Compliance (Provide Name/Date)
<p>Mitigation Measure BIO-3: Avoid Disturbance to Roosting Bat Species</p> <p>Bats species known to occur in the proposed Project region may roost in trees within the proposed Project area. If Project activities are planned to occur during the bat maternity season (May through mid-August), the District shall conduct a habitat assessment of the Project site to identify potential habitat for bat maternity roosts (e.g., large-diameter trees, snags). Potential roost habitat identified during the assessment shall be marked and avoided, if possible. If the potential roost habitat cannot be avoided and removal of potential roost habitat must be conducted during the maternity season, preconstruction inspections for potential roost habitat shall be conducted using appropriate methods (e.g., camera inspection, exit survey with night optics, acoustic survey) within the 14-day period prior to vegetation removal. If bats are found during inspections, removal of that roost feature shall be delayed until the end of the maternity season or until a qualified bat biologist has determined that the young are capable of flight. If Project activities occur outside of the maternity season, no mitigation shall be required. Mitigation Measure BIO-4: Develop and Implement Worker Environmental Awareness Training</p>	<p>EID and contractor.</p>	<p>Surveys completed before vegetation clearance activities begin.</p>	
<p>BIO-4: Develop and Implement Worker Environmental Awareness Training</p> <p>Before the start of vegetation removal activity, EID will develop a worker environmental awareness program. Before the start of project activities, the environmental training will be provided to all personnel working on the project site during vegetation removal. EID, consultant, and construction personnel entering the project site will be trained before being allowed on-site.</p>	<p>EID and contractor.</p>	<p>Prior to vegetation clearance activities</p>	

**Table 1
Summary of Mitigation Measures, Responsible Parties, and Timing**

Mitigation Measure	Party Responsible for Monitoring	Timeframe for Implementation	Monitoring Compliance (Provide Name/Date)
<p>BIO-5: Protect Riparian Habitat</p> <p>EID shall avoid and minimize indirect impacts on riparian habitat by implementing watercourse and lake protection zones, and measures to minimize erosion and runoff in all drainage plans, in accordance with California Forest Practice Rules (Title 14, California Code of Regulations, Chapters 4, 4.5, and 10) (CAL FIRE 2017). Prior to project activity, EID will assign a qualified Registered Professional Forester to identify the locations of riparian habitat and water bodies, and corresponding setbacks (Watercourse and Lake Protection Zones) for avoidance. Identification of riparian habitat/water bodies for avoidance will be in addition to and distinguished from any required construction boundary fencing or flagging. Watercourse and Lake Protection Zones will be identified as appropriate on project maps. Appropriate runoff controls, such as berms, straw wattles, silt fencing, filtration systems, and sediment traps, will be implemented to control siltation and the potential discharge of pollutants. Watercourse and Lake Protection Zones and appropriate runoff controls, such as berms, straw wattles, silt fencing, filtration systems, and sediment traps, will be implemented to protect riparian habitat and control siltation and the potential discharge of pollutants.</p>	EID and contractor.	Prior to and during vegetation clearance activities	
3.5 Cultural Resources			
<p>CUL-1: Address Previously Undiscovered Historic Properties and Archaeological Resources.</p> <p>EID shall implement the following measure to reduce or avoid impacts on undiscovered historic properties and archaeological resources. If interested Native American Tribes provide information demonstrating the significance of the project location and tangible evidence supporting the determination the site is highly sensitive for prehistoric archaeological resources, EID will retain a qualified archaeologist 1) monitor for potential prehistoric archaeological resources during initial ground disturbing activities, 2) prepare a worker awareness brochure, and 3) invite tribal representatives to review the worker awareness brochure.</p> <p>If buried or previously unidentified historic properties or archaeological resources are discovered during project activities, all work within a 100-foot radius of the find shall cease. EID shall retain a professional archaeologist meeting the Secretary of the Interior’s Professional Standards for Archaeologists to assess the discovery and recommend</p>	EID	Prior to or during vegetation clearance activities	

<p align="center">Table 1 Summary of Mitigation Measures, Responsible Parties, and Timing</p>			
<p align="center">Mitigation Measure</p>	<p align="center">Party Responsible for Monitoring</p>	<p align="center">Timeframe for Implementation</p>	<p align="center">Monitoring Compliance (Provide Name/Date)</p>
<p>what, if any, further treatment or investigation is necessary for the find. Interested Native American Tribes will also be contacted. Any necessary treatment/investigation shall be developed with interested Native American Tribes providing recommendations and shall be coordinated with the State Historic Preservation Officer and Reclamation, if necessary, and shall be completed before project activities continue in the vicinity of the find.</p>			
<p>CUL-2: Avoid Potential Effects on Undiscovered Burials. EID shall implement the following measures to reduce or avoid impacts related to undiscovered burials. In accordance with the California Health and Safety Code, if human remains are uncovered during ground-disturbing activities, all potentially damaging ground-disturbance in the area of the burial and a 100-foot radius shall halt and the El Dorado County Coroner shall be notified immediately. The coroner is required to examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or state lands (Health and Safety Code Section 7050.5[b]). If the coroner determines that the remains are those of a Native American, then Federal laws governing the disposition of those remain would come into effect. Specifically, the Native American Graves Protection and Repatriation Act (NAGPRA), Pub L. 101-601, 25 U.S.C. 3001 et seq., 104 Stat. 3048 requires federal agencies and institutions that receive federal funding to return Native American cultural items to lineal descendants and culturally affiliated Indian Tribes and Native Hawaiian organizations. Cultural items include human remains, funerary objects, sacred objects, and objects of cultural patrimony. NAGPRA also has established procedures for the inadvertent discovery of Native American cultural items on Federal or Tribal lands, which includes consultation with potential lineal descendants or Tribal officials as part of their compliance responsibilities. California law recognizes the need to protect Native American human burials, skeletal remains, and items associated with Native American burials from vandalism and inadvertent destruction. EID shall ensure that the procedures for the treatment of Native American human remains contained in California Health and Safety Code Sections 7050.5 and 7052 and Public Resources Code Section 5097 are followed.</p>	<p>EID and contractor</p>	<p>Prior to and during vegetation clearance activities</p>	