SACRAMENTO MUNICIPAL UTILITY DISTRICT UPPER AMERICAN RIVER PROJECT (FERC NO. 2101)

SPECIAL-STATUS PLANTS AND INVASIVE/NOXIOUS WEEDS TECHNICAL REPORT

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LIST OF APPLICABLE STUDY PLANS

Description

- Special-status Plants Study Plan
- Invasive/Noxious Weeds Study Plan

5.7 Special Status Plants Study Plan

5.7.1 Pertinent Issue Questions

The Special Status Plant Study addresses Terrestrial Resource Issue Questions:

- 6. What special status plants are affected by Project operations, maintenance and recreation activities?
- 27. What is the distribution of special status plants affected by Project operations, maintenance and recreation activities?

5.7.2 Background

A number of special status plants are known to occur within the Project area (SMUD 2001). For the purpose of this study, special status plant species are defined as those plant species that are: 1) listed, proposed or under review as rare, threatened or endangered under the Federal Endangered Species Act (ESA) or California ESA; 2) considered rare or endangered by the California Native Plant Society (CNPS); or 3) designated as sensitive species or species of concern by the U.S. Department of Agriculture, Forest Service (USFS). Mapping of these populations will allow for a more complete analysis of how to protect these populations from any adverse impacts from Project operations and activities. FERC regulations require that an applicant for a new license address continuing Project impacts, including to ESA listed species, and provide mitigation for these impacts. This study will assist in meeting FERC regulations as well as ESA and USFS guidelines.

5.7.3 Study Objectives

The objectives of the Special Status Plants Study are to: 1) determine if the Project affects special status plant species and 2) determine how identified Project-related impacts can be mitigated through the protection and restoration of special status plant species habitat within environmental, economic, and engineering constraints.

5.7.4 <u>Study Area and Sampling Locations</u>

The study area will include: 1) all areas within the FERC Project Boundary; and 2) water fluctuation zones in Project reaches described in the Initial Information Package (IIP) (SMUD 2001). It is understood that additional study areas (e.g. the developed and dispersed recreation areas being identified by the Recreation TWG and the Project roads being identified through the Project Sources of Sediment Study in coordination with the Recreation and Aquatic TWGs) will be added to this study area where appropriate. However, field surveys will be restricted to areas where the Licensee has legal access (e.g., ownership/easement rights, public lands) and within reasonable safety limits. Some of this area was surveyed for SMUD by KEA Environmental, Inc. as reported in *Botanical Resources Inventory Upper American River Project*. Areas that were not surveyed by KEA will be surveyed in the 2002 flowering season beginning in April or May 2002. The results of the Vegetation Mapping Study will also be used to determine where suitable habitat for special status plant species within the Study Area may be present. Note: river reaches will be sampled based on potential habitat, accessibility and potential for disturbance.

5.7.5 Information Needed From Other Studies

The only information required from other studies is the vegetation map that will be generated as part of the Vegetation Mapping Study. Information from previous special status plant surveys conducted in the Study Area will be used to supplement the results of this effort.

5.7.6 <u>Study Methods and Schedule</u>

As discussed above, SMUD's IIP includes a comprehensive list of special status plant species that have some likelihood of occurring in the study area. In addition, much of the area within the Project boundary has already been surveyed and the results reported in the report entitled *Botanical Resources Inventory Upper American River Project*. Areas that were not included in this study will be surveyed in the 2002 flowering season beginning in April or May 2002.

Survey protocol will follow CNPS "Guidelines for Assessing Effects of Proposed Developments on Rare Plants and Plant Communities." The guidelines require that botanical surveys that are conducted to determine the environmental effects of a proposed development project should be directed to all rare, threatened, and endangered plants and rare plant communities and will be floristic in nature; that they be conducted during the time of year when these species are identifiable (usually during the flowering stage of the species); that the field searches be conducted in a manner that will locate any rare or endangered species that may be present; and that the field investigator be familiar with the flora of the region (CNPS 2001). For the species within the UARP study area, the flowering period for all of the plants that could potentially occur within the study area is primarily from May to June, with some in July, depending on elevation and climatic conditions.

5.7.7 Analysis

The locations of all special status plant species observed will be recorded and plotted on Geographic Information System (GIS) maps. Photographs showing diagnostic floral characteristics, growth forms, and habitat characteristics will be taken of any special status plant species observed within the Study Area. Voucher specimens for verification will be collected in accordance with government collecting regulations.

5.7.8 Study Output

Study results will be presented to the Terrestrial Resources Technical Working Group (TWG) and Plenary Group toward the end of 2002. However, the ultimate study output will be a written report that includes the issues addressed, objectives, study area, methods, results, analysis, discussion, conclusions and, where appropriate, a discussion of a range of options to protect and/or enhance sensitive plant communities including the feasibility of each. The reports will also include: 1) narrative descriptions of special status plant species occurrence, current status and threats, phenology, and habitat requirements; and 2) GIS-generated maps that identify the location of the special status plants within the study area. The report will be prepared in a format that allows the information to be inserted directly into the Licensee-prepared Draft Environmental Assessment that will be submitted to FERC with the Licensee's application for a new license.

5.7.9 Preliminary Estimated Study Cost

SMUD's consultant estimates that this study will cost $$60,400 \pm 20$ percent.

5.7.10 <u>Plenary Group Endorsement</u>

The Plenary Group approved this study plan on February 6, 2002. The participants at the meeting who said they could "live with" the study plan were California Department of Fish and Game, California Native Plant Society, California Outdoors, California Sportsfishing Protection Alliance, El Dorado County, El Dorado County Citizens for Water, Friends of El Dorado County, National Parks Service, Placer County Water Agency, Sacramento Municipal Utility District, State Water Resources Control Board, Taxpayers or El Dorado County, U.S Bureau of Land Management and Eldorado National Forest. None of the participants at the meeting said they could not "live with" the study plan though PG&E abstained since this study plan does not apply to the Chili Bar Project.

5.7.11 Literature Cited

CNPS (California Native Plant Society). 2001. California Native Plant Society's inventory of rare and endangered plants of California. California Native Plant Society, Special Publication #1, Sixth Edition.

Sacramento Municipal Utility District. 2001. Initial Information Package for Relicensing of the Upper American River Project (FERC Project No. 2101). Sacramento, CA.

5.5 Invasive/Noxious Weeds Study Plan

5.5.1 Pertinent Issue Questions

The invasive/noxious weeds study addresses Terrestrial Resource Issue Questions:

- 5. Where and to what extent do Project operations contribute to the establishment, maintenance and expansion of invasive/noxious weeds within the Project area?
- 26. What is the distribution of invasive/noxious weeds within the Project area?

5.5.2 Background

In general, vehicles and public access can contribute to the spread of invasive weeds. In addition, construction and maintenance activities can disturbe native vegetation and increase the potential for colonization by invasive weeds. Maintenance activities under power lines where vegetation is cleared can also open up areas for colonization by invasive weeds. This study will determine to what extent project operations such as the use of project roads and the creation of disturbed areas that are open to colonization by weeds (e.g., clearing of transmission line rights-of-way) contribute to the distribution and establishment of invasive (noxious) weeds. A preliminary vegetation map has been prepared for the project area that also shows the locations of noxious weeds that were identified by the Eldorado National Forest (ENF) as being of concern (KEA Environmental, Inc. 2000). A discussion of invasive species is also included in the Initial Information Package (IIP) submitted in July 2001 (SMUD 2001). Nine populations of four noxious weed species were found and documented during the 2000 botanical inventory. However, this study did not cover stream reaches and transmission line corridors in detail and the IIP did not provide a discussion of how project operations contribute to the establishment, maintenance, and expansion of invasive weed populations within the study area.

5.5.3 Study Objectives

The objectives of the Invasive (Noxious) Weeds Study are to: 1) determine if and where the project contributes to the spread of invasive (noxious) weeds; and 2) determine how identified project-related impacts can be mitigated within environmental, economic, and engineering constraints.

5.5.4 Study Area and Sampling Locations

The Invasive (Noxious) Weeds Study Area includes: 1) all areas within FERC Project boundary, and 2) water fluctuation zones within river reaches below Project facilities. It is understood that additional study areas (e.g. the developed and dispersed recreation areas being identified by the Recreation TWG and the Project roads being identified through the Project Sources of Sediment Study in coordination with the Recreation and Aquatic TWGs) will be added to this study area where appropriate. Field surveys will be restricted to those areas where the Licensee has legal access (e.g., ownership/easement rights, public lands) and where access is within reasonable safety limits.

5.5.5 <u>Information Needed From Other Studies</u>

Information is available from the vegetation mapping that was conducted in 2000, recent aerial photography obtained by SMUD, and additional mapping done by the ENF. Information obtained from the vegetation mapping for 2002 will be included in the final report for invasive weeds. A list of targeted invasive weed species will be established based on ENF and other agency input.

5.5.6 <u>Study Methods And Schedule</u>

Populations of invasive weeds will be mapped concurrently with field surveys to be conducted for the Vegetation Mapping and Special Status Plant Species studies during the spring and summer of 2002. For the purpose of this study, invasive weed species are defined as those plant species currently listed as noxious weeds by the ENF, and El Dorado and Sacramento counties. Survey protocol will follow California Native Plant Society (CNPS) "Guidelines for Assessing Effects of Proposed Developments on Rare Plants and Plant Communities." Identified populations

will be recorded with Global Positioning System (GPS) instruments as practicable. These data will be used to construct Geographic Information System (GIS) maps of observed invasive/non-native plant infestations.

5.5.7 <u>Analysis</u>

Identified populations of noxious weeds will be evaluated with respect to likely sources of introductions (e.g., vehicles, recreationists) and opportunities for control or eradication. Protocols will follow the Noxious Weeds Management Strategy implemented for the Sierra Nevada Forest Plan Amendment, Final Environmental Impact Statement (USDA 2001). This requires that a project-level noxious weed risk assessment be conducted. The weed risk assessment serves as the primary mechanism for prescribing weed prevention measures. There are 3 priorities for weed management: Priority 1 is to prevent the introduction of new invaders; Priority 2 is to conduct early treatment of new infestations; and Priority 3 is to contain and control established infestations. The invasive/noxious weed study will use the management strategies and weed control guidelines developed by the Forest Service for the Sierra Nevada region.

5.5.8 <u>Study Output</u>

Study results will be presented to the Terrestrial Resources Technical Working Group (TWG) and the Plenary Group at the end of 2002. However, the ultimate study output will be a written report that includes the issues addressed, objectives, study area, methods, results, analysis, discussion, and conclusions. Where appropriate, the discussion will explore the range of options available for the control or eradication of these infestations, including the feasibility of each option. The report will be prepared in a format that will allow the information to be inserted directly into the Licensee-prepared Draft Environmental Assessment that will be submitted to FERC with the Licensee's application for a new license.

5.5.9 Preliminary Estimated Study Cost

SMUD's consultant estimates that this study will cost \$44,000 \pm 20 percent.

5.5.10 Plenary Group Endorsement

The Plenary Group approved this study plan on February 6, 2002. The participants at the meeting who said they could "live with" the study plan were California Department of Fish and Game, California Native Plant Society, California Outdoors, California Sportsfishing Protection Alliance, El Dorado County, El Dorado County Citizens for Water, Friends of El Dorado County, National Parks Service, Placer County Water Agency, Sacramento Municipal Utility District, State Water Resources Control Board, Taxpayers or El Dorado County, U.S Bureau of Land Management and Eldorado National Forest. None of the participants at the meeting said they could not "live with" the study plan though PG&E abstained since this study plan does not apply to the Chili Bar Project.

5.5.11 Literature Cited

KEA Environmental, Inc. 2000. Botanical resources inventory Upper American River Project, Sacramento Municipal Utilities District, Pacific Ranger District, Eldorado National Forest. Prepared for Sacramento Municipal Utilities District. Submitted to Tetra Tech, Inc., submitted by KEA Environmental, Inc. October 2000.

SMUD (Sacramento Municipal Utility District). 2001. Initial information package for relicensing of the Upper American River Project (FERC Project No. 2101). Sacramento, CA.

USDA (U.S. Department of Agriculture, Forest Service). 2001. Sierra Nevada forest plan amendment, final environmental impact statement, record of decision. USDA Forest Service, Pacific Southwest Region.

SPECIAL-STATUS PLANTS AND NOXIOUS WEEDS TECHNICAL REPORT

SUMMARY

SMUD documented thirteen special-status plants in 2000 and 2003, including one (*Allium jepsonii* [Jepson's onion]) not previously known from El Dorado County. In addition, an unlisted species first described in 2002 (*Pseudostellaria sierrae*, no common name) was found. Maps and GIS files for all occurrences were prepared.

Special-status plants are not uniformly distributed in the study area: a few key habitats support most occurrences. Chief among these is the gabbro chaparral near Pine Hill, in the western section of the study area. This area, traversed by UARP transmission lines, supports three FESA-listed species (*Ceanothus roderickii* [Pine Hill ceanothus], *Fremontodendron decumbens* [Pine Hill flannelbush], *Senecio layneae* [Layne's butterweed]), and one Species of Concern (*Wyethia reticulata* [El Dorado mule-ears]) that are largely restricted to its unique soil type. Also notable in the western section of the study area is a serpentine-soil outcrop in the Greenstone Country subdivision near Lotus Road, northeast of the town of Rescue. In addition to the first known occurrence of *Allium jepsonii* in El Dorado County, this area supports hundreds of mostly annual native forbs found nowhere else in the study area.

Similarly, in the southeast section of the study area rock outcrops and chaparral near UARP reservoirs and facilities support *Phacelia stebbinsii* (Stebbins' phacelia), *P. vallicola*, (mariposa phacelia), Bolandra *californica*, (Sierra bolandra), and *Calochortus clavatus* var. *avius* (Pleasant Valley mariposa lily). Meadows near Ice House Reservoir support *Drosera rotundifolia* (round-leaved sundew). Only *Taxus brevifolia* (Pacific yew) and *Viola tomentosa* (wooly violet) are found in the forested habitats most common in the study area, and these in riparian zones and granitic gravel and duff, respectively.

SMUD documented ten target weed species from the study area in 2000 and 2003. Maps and GIS files for all occurrences were prepared. Weeds are concentrated in the western, unforested section of the study area, and are especially prevalent near development, along roadsides, in agricultural fields, and in annual grassland and oak woodland habitats. In this western area, physical disturbance is uniformly associated with dominance by *Centaurea solstitialis* (yellow starthistle) or *Taeniatherum caput-medusae* (medusahead). However, this dynamic is largely absent from the eastern, forested sections: few weeds occur in forested habitats in the study area, even where transmission line clearing has resulted in bare soil and sparsely vegetated areas. Burned land areas along the Jones Fork-Union Valley transmission line are a notable exception, supporting strong infestations of *Bromus tectorum* and *B. diandrus*. UARP facilities were examined in 2000 and several were found to support populations of: *Centaurea solstitialis* (White Rock Powerhouse and access roads, Slab Creek Dam and access roads, Camino Reservoir and Jaybird Powerhouse and access roads, tunnel adit, and penstock); *Aegilops triuncialis* (goatgrass) (Slab Creek Reservoir access roads, Camino Reservoir access roads, Slab Creek Reservoir access road, Camino Reservoir access roads, Slab Creek Reservoir access road, Camino Reservoir access road); *Carduus pychnocephalus* (White Rock Powerhouse and access roads, Slab Creek Reservoir access road, Camino Reservoir access road); and *Chondrilla juncea* (rush skeletonweed) (Camino Reservoir access road).

1.0 INTRODUCTION

This technical report is one in a series of reports prepared by Devine Tarbell & Associates, Inc., (DTA) for the Sacramento Municipal Utility District (SMUD) as an appendix to SMUD's application to the Federal Energy Regulatory Commission (FERC) for a new license for the Upper American River Project (UARP or Project). The report addresses special-status plants and invasive/noxious weeds in the immediate vicinity of UARP facilities and features. This report includes the following sections:

UARP License Application

- **BACKGROUND** Summarizes the applicable study plan approved by the UARP Relicensing Plenary Group; a brief description of the issue questions addressed, in part, by the study plan; the objectives of the study plan; the study area, and agency information requests. In addition, requests by resource agencies for additions to this technical report are described in this section.
- **METHODS** A description of the methods used in the study, including a listing of study sites
- **RESULTS** A description of the most important data results. Raw data, where copious, and detailed model results are provided by request in a separate compact disc (CD) for additional data analysis and review by interested parties.
- LITERATURE CITED A listing of all literature cited in the report.

This technical report does not include a detailed description of the UARP Alternative Licensing Process (ALP) or the UARP, which can be found in the following sections of SMUD's application for a new license: the UARP Relicensing Process, Exhibit A (Project Description), Exhibit B (Project Operations), and Exhibit C (Construction).

Also, this technical report does not include a discussion regarding the effects of the UARP on special-status plants and invasive/noxious weeds and related environmental resources, nor does the report include a discussion of appropriate protection, mitigation, and enhancement measures. An impacts discussion regarding the UARP is included in the applicant-prepared preliminary draft environmental assessment (PDEA) document, which is part of SMUD's application for a new license. Development of resource measures will occur in settlement discussions, which will commence in 2004, and will be reported on in the PDEA.

2.0 BACKGROUND

The UARP Relicensing Plenary Group approved two study plans that pertain specifically to special-status plants and invasive/noxious weeds: the Special-Status Plants Study Plan and the Invasive and Noxious Weeds Study Plan. Each of these is discussed below.

2.1 Special-Status Plants Study Plan

On February 6, 2002, the UARP Relicensing Plenary Group approved the Special-Status Plants Study Plan that was developed by and approved by the UARP Terrestrial Technical Working Group (TWG) on January 11, 2002. The study plan was designed to address, in part, the following issues questions developed by the UARP Relicensing Plenary Group:

Issue Question 6. What special-status plants are affected by Project operations,

maintenance and recreation activities?

Issue Question 27. What is the distribution of special-status plants affected by Project

operations, maintenance and recreation activities?

For the purpose of this study, special-status plants were defined as those vascular plants that are: 1) listed, proposed or under review as rare, threatened or endangered under the Federal Endangered Species Act (ESA) or California ESA (CESA); 2) considered rare or endangered by the California Native Plant Society (CNPS); or 3) designated as sensitive species or species of concern by the U.S. Department of Agriculture, Forest Service (Forest Service).

The primary objectives of the study were to determine:

- 1. If the UARP affects special-status plant species; and
- 2. How identified UARP-related impacts can be mitigated through the protection and restoration of special-status plant species habitat within environmental, economic, and engineering constraints.

As stated above, this *Special-Status Plants and Invasive/Noxious Weeds Technical Report* does not address the second portion of Issue Question 6 or the portions of the objectives dealing with UARP effects and potential protection, mitigation and enhancement measures. These issues will be addressed during settlement discussions and in the PDEA.

The study area specified in the Special-Status Plants Study Plan included: 1) all areas within the UARP FERC Project Boundary to which SMUD has legal access; and 2) water fluctuation zones in UARP Reaches. The study area did not include Pacific Gas and Electric Company's Chili Bar Reservoir area or the Reach Downstream of Chili Bar. In the Special-Status Plants Study Plan, it was also noted that lands surrounding UARP Reservoirs and Facilities were surveyed during 2000 (KEA 2000), and that such lands would not need additional surveys. In addition, it was noted that "river reaches will be sampled based on potential habitat, accessibility, and potential for disturbance." At the March 18, 2003 Terrestrial TWG meeting, it was agreed that assessments of UARP Reaches conducted during the Riparian Vegetation study (see the Riparian Vegetation and Wetlands Technical Report) would be sufficient to address special-status plants, because many UARP Reaches are dangerously inaccessible, and because few special-status plants have the potential to occur in their water fluctuation zones. The amended study area for the Special-Status Plants Study thus included all lands within the UARP FERC Project Boundary not surveyed in 2000; the bulk of these lands are found in the various UARP Transmission Line Corridors. The results reported below include those described in SMUD's 2000 botanical report as well as those from 2003.

2.2 Invasive/Noxious Weeds Study Plan

On February 6, 2002, the UARP Relicensing Plenary Group approved the Invasive/Noxious Weeds Study Plan that was developed by and approved by the UARP Terrestrial (TWG) on January 11, 2002. The study plan was designed to address, in part, the following issues questions developed by the UARP Relicensing Plenary Group:

Issue Question 5. Where and to what extent do Project operations contribute to the

establishment, maintenance and expansion of invasive/noxious

weeds within the Project area?

Issue Question 26. What is the distribution of invasive/noxious weeds within the

Project area?

The primary objectives of the study were to determine:

1. If and where the UARP contributes to the spread of invasive (noxious) weeds; and

2. How identified UARP-related impacts can be mitigated within environmental, economic, and engineering constraints.

This Special-Status Plants and Invasive/Noxious Weeds Technical Report does not address Issue Question 5 or the portions of the objectives dealing with UARP effects and potential protection, mitigation and enhancement measures. These issues will be addressed during settlement discussions and in the PDEA. This technical report describes the methods used and the location and distribution of invasive/noxious weeds

The study area included the same area as the Special-Status Plants Study Plan, which is described above.

The study methods were similar to those described for the Special-Status Plants Study Plan described above. The results reported below include those described in SMUD's 2000 botanical report as well as those from 2003.

2.3 Water Year Types

As described in the *Water Temperature Technical Report*, the UARP Relicensing Water Balance Model Subcommittee established five water year types to be applied to all preliminary analysis with the understanding that the UARP Relicensing Plenary Group, with cause, may modify the current water year types in the future. For reference purposes, the water types that applied to the period when fieldwork for the Special-Status Plants Study Plan and the Invasive/Noxious Weeds Study Plan was performed are described in Table 2.3-1 below.

Table 2.3-1. Water year types applied to individual months of years 2001-2003. 1												
Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
2003	BN	BN	BN	D	BN	BN	BN	BN	BN	BN	BN	BN
$_{1}$ D = D	¹ D = Dry water year; BN = Below normal water year											

2.4 Agency Requested Information

In a letter dated December 17, 2003 to SMUD, the agencies identified, by study, information they believed they needed to begin settlement discussions, with the understanding that additional information might be requested. Neither the Special-Status Plants Study Plan nor the Invasive/Noxious Weeds Study Plan was specifically addressed. However, the agencies general comment regarding terrestrial studies is pertinent:

• All studies will need GIS shape files showing habitat/vegetation types and spatial relationships with meta-data.

In a May 13, 2004 letter, the agencies stated in regards to the *Special-Status Plants and Invasive/Noxious Weeds Technical Report* (February 2004) the following:

• We have reviewed this study report and have no comments on the report.

On June 22, 2004, the UARP Terrestrial Working Group met to discuss the adequacy of UARP terrestrial resources technical reports. The Technical Working Group concluded that for the *Special-Status Plants and Invasive/Noxious Weeds Technical Report*:

- The Issue Questions and Objectives stated in the study plan are adequately addressed by the information provided in the technical report; and
- The methods employed were adequate to address Issue Questions and Objectives.

3.0 METHODS

The methods used for both the special-status plants and invasive/noxious weeds studies conformed to the methods in the UARP Relicensing Plenary Group-approved study plans. These methods are described in detail below.

3.1 Special-Status Plants

The special-status plant study survey methods followed California Native Plant Society guidelines for rare plant surveys (CNPS 2001). A list of potentially occurring special-status plant taxa was developed prior to fieldwork, using a combination of literature reviews, professional expertise, agency guidance, and the results of a 2003 California Natural Diversity Database search for El Dorado, Placer, Amador, and Sacramento counties. In addition, the United States Fish and Wildlife Service (USFWS) provided information on known special-status plants in a letter dated April 16, 2001, and the United States Forest Service (USFS) provided the same in correspondence dated November 29, 2000. The resulting list of potentially occurring taxa is provided as Appendix A to this technical report. Although this list was used to guide survey efforts, surveys were floristic in nature, identifying all plants encountered. Species that could not be identified in the field were pressed for subsequent examination, and taxonomic experts in particular genera consulted when necessary. A full plant list is provided as Appendix B to this technical report.

Special-status plant surveys were conducted when phenologically appropriate, from April 28 to July 5, 2003. Some particularly diverse areas (e.g., the Pine Hill area; see below) required multiple survey passes to ensure full coverage and account for differing plant phenologies. Varying levels of survey intensity were used in the field. Most lands were addressed using a moderate-level survey, in which multiple surveyors walked transects with additional effort assigned to areas of special interest, such as seeps and outcrops. Physically disturbed (e.g., developed) or ecologically disturbed areas (e.g., annual grasslands) were surveyed at a reconnaissance or light level of intensity.

Documented special-status plant occurrences were mapped in the field on 1:24,000 Unites States Geological Survey (USGS) maps or 1:4,800 orthophoto map sheets, habitat information was collected, and potential threats (e.g., recreational use or noxious weeds) noted. Occurrence maps were digitized to form a GIS layer using ArcGIS software, and this layer combined with existing topographic and UARP GIS coverage to produce 1:24,000 scale special-status plant maps for the entire study area. The resulting maps show both special-status plant and invasive/noxious weed occurrences, and are provided as Appendix C to this report. These maps divide the special-status plants and noxious weed study area into four sections: the Northeast, including Rubicon, Gerle Creek, and Loon Lake reservoirs; the Southeast, including Union Valley, Ice House, Junction, and Camino reservoirs; the Southwest, including Brush Creek and Slab Creek reservoirs, and the West, including the UARP transmission line corridor from White Rock powerhouse to Folsom Junction.

3.2 Noxious Weeds

Noxious weed surveys were conducted concurrently with special-status plant surveys during May, June, and July 2003 with follow-up mapping of developed areas and late-season species in August and September 2003. (This study area did not include UARP reservoirs and facilities, which were surveyed in 2000.) Surveys targeted those species listed by the Eldorado National Forest as "A", or highly invasive; potentially less invasive, "B" listed species that are not currently known from the study area; *Bromus tectorum* (cheatgrass) and *Bromus diandrus* (ripgut grass), both annual grasses of concern to the USFS (Taylor 2003); and four species recommended by the El Dorado County Department of Agriculture in 2001: *Cardaria chalepensis* (lens-pod whitetop), *Euphorbia oblongata* (oblong spurge), *Foeniculum vulgare* (fennel), and *Spartium junceum* (Spanish broom) (Table 3.2-1).

Occurrences of target invasive/noxious weeds were mapped in the field on 1:24,000 USGS quad maps or 1:4,800 orthophoto map sheets. Occurrence maps were digitized to form a GIS layer using ArcGIS software, and this layer combined with existing topographic and UARP GIS coverage to produce 1:24.000 scale maps for the entire study area. The resulting maps show both special-status plant and invasive/noxious weed occurrences, and are provided as Appendix C to this report. While most noxious weed occurrences are mapped within their observed boundaries, those in highly disturbed areas (e.g., annual grasslands, which often support unmappably complex and shifting populations of *Aegilops triuncialis* [goatgrass], *Taeniatherum caput-medusae* [medusahead], and other weeds) are generally represented by the boundaries of their habitat, where they are grouped as Annual Grasses rather than by individual species.

Table 3.2-1. Noxious Weed Study target species. Species with an asterisk are not currently known from the Eldorado National Forest (Taylor 2004).				
Name	Common name	ENF Listing Status		
Aegilops triuncialis	goatgrass	A		
Bromus diandrus	ripgut grass	В		
Bromus tectorum	cheatgrass	В		
Cardaria chalepensis*	lens-pod whitetop	none		
Carduus nutans*	musk thistle	A		
Carduus pycnocephalus	Italian thistle	A		
Centaurea bieberstienii*	spotted knapweed	A		
Centaurea diffusa*	diffuse knapweed	В		
Centaurea solstitialis	yellow starthistle	A		
Chondrilla juncea	rush skeletonweed	A		
Cirsium arvense*	Canada thistle	A		
Cytisus scoparius	Scotch broom	A		
Euphorbia esula*	leafy spurge	В		
Euphorbia oblongata*	oblong spurge	none		
Foeniculum vulgare*	fennel	none		
Genistia monspellensus	French broom	A		
Lepidium latifolium	tall whitetop	A		
Linaria genistifolia*	Dalmation toadflax	A		
Lythrum salicaria*	purple loosestrife	A		
Spartium junceum*	French broom	none		
Taeniatherum caput-medusae	medudahead	A		
Tamarix chinensis*	tamarisk	В		

4.0 RESULTS

4.1 Special-Status Plants

Thirteen special-status plants were documented in 2000 and 2003, including one (*Allium jepsonii* [Jepson's onion]) not previously known from El Dorado County (Table 4.1-1). In addition, an unlisted species first described in 2002 (*Pseudostellaria sierrae*, no common name) was found. Each of these occurrences is described below. Maps for all occurrences (2000 and 2003) are provided in Appendix C to this technical report. The GIS files are provided on CD by request.

Special-status plants are not uniformly distributed in the study area: a few key habitats support most occurrences. Chief among these is the gabbro chaparral near Pine Hill, in the western section of the study area. This area, traversed by UARP transmission lines, supports three FESA-listed species (*Ceanothus roderickii* [Pine Hill ceanothus], *Fremontodendron decumbens* [Pine Hill flannelbush], *Senecio layneae* [Layne's butterweed]), and one Species of Concern (*Wyethia reticulata* [El Dorado mule-ears]) that are largely restricted to its unique soil type. Also notable in the western section of the study area is a serpentine-soil outcrop in the Greenstone Country subdivision near Lotus Road, northeast of the town of Rescue. In addition to the first known occurrence of *Allium jepsonii* in El Dorado County, this area supports hundreds of mostly annual native forbs found nowhere else in the study area.

Similarly, in the southeast section of the study area rock outcrops and chaparral near UARP reservoirs and facilities support *Phacelia stebbinsii* (Stebbins' phacelia), *P. vallicola*, (mariposa phacelia), *Bolandra californica*, (Sierra bolandra), and *Calochortus clavatus* var. *avius* (Pleasant Valley mariposa lily). Meadows near Ice House Reservoir support *Drosera rotundifolia* (round-leaved sundew). Only *Taxus brevifolia* (Pacific yew) and *Viola tomentosa* (wooly violet) are found in the forested habitats most common in the study area, and these in riparian zones and granitic gravel and duff, respectively.

Name	Common name	Status ¹	Number of Occurrences	General Location
Allium jepsonii	Jepson's onion	Fed: None CA: None CNPS: 1B ENF: none	1	Serpentine outcrop in Greenstone Country subdivision
Bolandra californica	Sierra bolandra	Fed: none CA: none CNPS: 4 ENF: W	1	Access road to White Rock Powerhouse
Calochortus clavatus var. avius	Pleasant Valley mariposa lily	Fed: SC CA: none CNPS: 1B ENF: S	4	Chaparral and <i>Quercus chrysolepis</i> forest near Junction and Camino reservoirs
Ceanothus roderickii	Pine Hill ceanothus	Fed: E CA: R CNPS: 1B ENF: none	1	Transmission line corridor near Pine Hill
Chloragalum grandiflorum	Red Hills soaproot	Fed: SC CA: none CNPS: 1B ENF: W	3	Transmission line corridor near Pine Hill and Independence Point
Drosera rotundifolia	round-leaved sundew	Fed: none CA: none CNPS: none ENF: W	2	Meadows south of Ice House Dam and adjacent Silver Creek
Fremontodendron decumbens	Pine Hill flannelbush	Fed: E CA: R CNPS: 1B ENF: none	4	Transmission line corridor near Pine Hill
Phacelia stebbinsii	Stebbin's phacelia	Fed: SC CA: none CNPS: 1B ENF: S	Numerous; 3 general localities	Chaparral and rock outcrops near Camino and Junction Reservoirs
Phacelia vallicola	mariposa phacelia	Fed: none CA: none CNPS: none ENF: W	1	Rock outcrops near Camino Reservoir
Senecio layneae	Layne's butterweed	Fed: T CA: R CNPS: 1B ENF: S	2	Transmission line corridor near Pine Hill

Table 4.1-1. Summary of special-status plant occurrences documented in 2000 and 2003.						
Name	Common name	Status ¹	Number of	General Location		
			Occurrences			
Taxus brevifolia	Pacific yew	Fed: none	4	Transmission line corridor		
		CA: none		southeast of Slab Creek Reservoir;		
		CNPS: none		mouth of Brush Creek at Brush		
		ENF: W		Creek Reservoir		
Viola tomentosa	wooly violet	Fed: none	17	Campgrounds at Union Valley and		
		CA: none		Gerle Creek Reservoirs,		
		CNPS: 1B		transmission line corridor west and		
		ENF: W		southwest of Loon Lake		
Wyethia reticulata	El Dorado mule-	Fed: SC	2	Transmission line corridor near		
	ears	CA: none		Pine Hill		
		CNPS: 1B				
		ENF: none				

¹Status listings definitions are as follows:

Federal:

E = listed as endangered under the Federal Endangered Species Act (FESA).

California (CA):

R =state listed rare plant.

California Native Plant Society (CNPS):

- 1B = plants considered to be rare, threatened, or endangered in California and elsewhere.
- 2 = plants considered to be rare, threatened or endangered in California, but more common elsewhere.
- 3 =plants about which more information is needed a review list.
- 4 =plants of limited distribution a watch list.

Eldorado National Forest (ENF):

S = sensitive plants. Plants known or suspected to occur on National Forest Service lands that are considered valid candidates for Federal threatened or endangered classification under the FESA.

W = a watch list of plants that do not meet all the criteria to be included on the Regional Forester's Sensitive List, but are of sufficient concern that they need to be considered in the planning process.

4.1.1 Allium jepsonii (Jepson's onion)

Allium jepsonii is a perennial herb in the Liliaceae (lily family), and a California Native Plant Society (CNPS) list 1B plant (see table 4.1-1 for listing definitions). Allium jepsonii occurs in cismontane woodland or lower montane coniferous forests, generally on serpentine or volcanic substrates. It is known from elevations ranging from approximately 980 to 3,800 feet and was previously reported to only occur in Butte and Tuolumne counties (CNPS 2001).

Surveys conducted in 2003 located one occurrence of over 1,000 *A. jepsonii* individuals on a serpentine outcrop in the western section of the study area, partially within the transmission line right-of-way. The outcrop is in an otherwise *Quercus douglasii* (blue oak) wooded grassland community within the Greenstone Estates subdivision, and supports an important and botanically diverse community that is unique in the study area. The occurrence is between transmission towers but within 500 feet of a tower and also within 500 feet of recent residential development. An unimproved tower access road runs within 100 feet of the occurrence. Dr. Dale McNeal, author of the treatment of *Allium* in the Jepson Manual (Hickman 1993), confirmed the identification (McNeal 2004).

T = listed as threatened under FESA.

SC = species of concern.

Exotic annual grasses such as *Aegilops triuncilais* (barbed goatgrass) are common in the *A. jepsonii* occurrence and adjacent *Quercus douglasii* grasslands, and *Centaurea solstitialis* (yellow starthistle) infests nearby roadsides.

4.1.2 *Bolandra californica* (Sierra bolandra)

Bolandra californica is a perennial herb in the Saxifragaceae (saxifrage family), and a CNPS list 4 and ENF watch list species. *Bolandra californica* occurs in lower and upper montane coniferous forests, generally on rocks or wet crevices. It is found at elevations ranging from approximately 3,200 to 8000 feet and is known to occur in El Dorado, Amador, Alpine, Calaveras, Stanislaus, Mariposa, and Tuolumne counties (CNPS 2001).

Surveys conducted in 2000 located one occurrence of *B. californica* within the study area, growing on the cutbank created by the access road to Camino Reservoir.

4.1.3 *Calochortus clavatus* var. *avius* (Pleasant Valley mariposa lily)

Calochortus clavatus var. avius is a perennial herb in the Liliaceae, and a federal species of concern, CNPS list 1B and ENF sensitive taxon. Calochortus clavatus var. avius occurs in lower montane coniferous forest and chaparral, on varying substrates. It is found at elevations ranging from approximately 1,000 to 6,000 feet and is known to occur in Amador, El Dorado, and Mariposa counties (CNPS 2001).

Surveys conducted in 2000 located four occurrences of *C. clavatus* var. *avius* within the study area (KEA 2000). Two separate occurrences of fewer than 100 individuals were documented in upper montane chaparral communities along the shores of Junction Reservoir, each unaffected by the UARP but within the FERC Project Boundary. In addition, two occurrences were documented near Camino Reservoir. One of approximately 1500 individuals was documented in an undisturbed *Quercus chrysolepis* (canyon live oak) stand above the Camino Reservoir access road (but within the FERC Project Boundary). Another of approximately 60 individuals was found 65 feet downslope of Camino Reservoir access road, under UARP transmission lines. Part of the occurrence was growing on an old roadbed, but the site had not been recently disturbed.

Sparse *Bromus tectorum* was reported near one Junction Reservoir occurrence of *C. clavatus* var. *avius*. No weeds were reported in those occurrences growing near the Camino Reservoir access road, although *Aegilops triuncialis, Centaurea solstitialis, Chondrilla juncea*, and *Bromus tectorum* are all found in the vicinity.

4.1.4 *Ceanothus roderickii* (Pine Hill ceanothus)

Ceanothus roderickii is an evergreen shrub in the Rhamnaceae (buckthorn family), and a federally-listed endangered, California rare, and CNPS list 1B plant. Ceanothus roderickii occurs in chaparral and cismontane communities on serpentine or (more typically) gabbroic substrates. It is found at elevations ranging from approximately 850 to 2,000 feet and is endemic to El Dorado County (CNPS 2001). Ceanothus roderickii is one of six federally relevant taxa recently addressed in a USFWS Recovery Plan for gabbro-emdemic plants (USFWS 2002).

Surveys conducted in 2003 documented one large occurrence of *C. roderickii* within the western section of the study area, in the vicinity of Pine Hill. In this occurrence, hundreds to thousands of clumps of *C. roderickii* occur within a chaparral community traversed by the Project transmission line right-of-way. *Ceanothus roderickii* often dominates the understory in open or disturbed parts of the occurrence, but areas with dense cover of tall shrubs (e.g., *Arctostaphylos viscida* [whiteleaf manzanita]) for the most part do not support the species. Part of this occurrence is included within the USFWS-proposed Pine Hill Preserve parcel for gabbro endemics (USFWS 2002). Although UARP transmission lines also traverse part of the USFWS-proposed Penny Lane preserve parcel, no *C. roderickii* occurs in that part of the study area.

This occurrence includes largely undisturbed areas traversed by UARP transmission lines, as well as disturbed lands under transmission towers and along tower maintenance roads. Transmission line maintenance was observed within the *C. roderickii* occurrence, causing damage to individuals growing in a maintenance road and under a tower. Associated removal of *Pinus sabiana* (gray pine) trees under the transmission lines appears to have created habitat openings favored by *C. roderickii*.

Ceanothus roderickii is considered a fire-dependent species, apparently requiring fire for adequate seed germination and seedling establishment (USFWS 2002). Dense stands of very large Arctostaphylos viscida in and around the Pine Hill C. roderickii occurrence suggest few fires have occurred there in the recent past. Annual grasses are common in the Pine Hill C. roderickii occurrence, most commonly Aegilops triuncialis. It is often found in the open and disturbed areas in which C. roderickii appears to thrive. Development in the Pine Hill area and El Dorado County as a whole is accelerating, and is expected to influence C. roderickii by encouraging direct habitat loss, habitat fragmentation, and changes to fire regimes (USFWS 2002).

4.1.5 *Chlorogalum grandiflorum* (Red Hills soaproot)

Chlorogalum grandiflorum is a perennial herb in the Liliaceae (lily family), and a federal species of concern, CNPS list 1B and Eldorado Forest watch list plant. Chlorogalum grandiflorum occurs in chaparral, cismontane woodland, and lower montane coniferous forests on serpentine or gabbroic substrates. It is found at elevations ranging from approximately 800 to 3,300 feet and is known to occur in Amador, El Dorado, Placer and Tuolumne counties (CNPS 2001).

Surveys conducted in 2003 documented three separate occurrences of *C. grandiflorum*: one in the Pine Hill area supporting hundreds of individuals, and two smaller occurrences in the vicinity of Independence Point. Each of these forms part of a mixed chaparral community growing in the Project transmission line corridor. At all three occurrences documented in 2003, *C. grandiflorum* appeared to be disturbance-adapted, clustering in roadcuts and other bare-soil areas.

The occurrence in the Pine Hill area is directly under the UARP transmission lines, occurring under and between towers and in maintenance roads. Transmission line maintenance and vegetation clearing (using a bulldozer) was observed within this occurrence, causing damage to individuals growing in a maintenance road. At Independence Point, the two occurrences are between towers, but partially occur in the transmission line maintenance road. No *C. grandiflorum* occurs in adjacent, forested habitats, suggesting the Independence Point occurrences may be supported by transmission line clearing (tree removal) that maintains the habitat as chaparral. Both of the Independence Point occurrences are unusual in that they do not appear to be growing in gabbro or serpentine soils.

Annual grasses are common in the Pine Hill *C. grandiflorum* occurrence, most commonly *Aegilops triuncialis*. It is often found in the open and disturbed areas in which *C. grandiflorum* appears to thrive. Development in the Pine Hill area and El Dorado County as a whole is accelerating, and may influence *C. grandiflorum* by encouraging direct habitat loss, habitat fragmentation, and changes to fire regimes (USFWS 2002).

Some taxonomic questions are unresolved within *Chlorogalum*. Both *C. grandiflorum* and the common, widespread taxon *C. pomeridianum* var. *pomeridianum* are found in the study area. (When not in flower, each can be confused with *Odonostomum hartwegii* [Hartweg's doll-lily], which also occurs.) *Chlorogalum pomeridianum* var. *pomeridianum* has a very large root covered with dark brown, coarse fibers, and long, slender flower pedicels that are at least as long as the flowers, while *C. grandiflorum* has a medium-sized root covered with membranes and a few delicate fibers, and thick flower pedicels that are shorter than the flowers. However, 2003 surveys located four occurrences of a *Chlorogalum* that appears intermediate between the two: medium-sized plants with short thick flower pedicels like *C. grandiflorum*, but large, coarsely fibrous roots like *C. pomeridianum* var. *pomeridianum*. These plants were found east of Camino Reservoir and also in the vicinity of Independence Point. Examination of records from the 2000 botanical survey found that the occurrence of *C. grandiflorum* detailed there (along the access road to Camino reservoir) is also of this intermediate type. Collections of this intermediate taxon were sent to Dr. Judy Jernstedt of U.C. Davis, who reported that she had previously seen similar plants. They will require additional taxonomic work to determine their identity.

4.1.6 *Drosera rotundifolia* (round-leaved sundew)

Drosera rotundifolia is a perennial herb in the Droseraceae (sundew family), and an ENF watch list plant. *Drosera rotundifolia* typically occurs in sphagnum bogs and wetlands. It is found at elevations ranging from sea level to approximately 6,500 feet and is known to occur throughout the northwest, especially near the coast, and in the Cascade Ranges and Sierra Nevada (CNPS 2001).

Surveys conducted in 2000 and 2003 documented two occurrences of *D. rotundifolia* in the study area, both near Ice House Dam. Approximately 150 plants occur in a meadow directly south of the dam, near an associated parking area and valve house. More than 300 plants also occur approximately 500 meters downstream, in a meadow adjacent to South Fork Silver Creek. No weeds or disturbances were observed.

4.1.7 *Fremontodendron decumbens* (Pine Hill flannelbush)

Fremontodendron decumbens (Pine Hill flannelbush) (= F. californicum ssp. decumbens) is an evergreen shrub in the Sterculiaceae (cacao family), and a federally-listed endangered, California rare, and CNPS list 1B plant. Fremontodendron decumbens occurs in chaparral and cismontane woodland communities on rocky gabbroic or serpentine substrates at elevations ranging from approximately 1,400 to 2,500 feet. It is known to occur in El Dorado and Nevada counties (CNPS 2001), and is one of six federally relevant taxa recently addressed in a USFWS Recovery Plan (USFWS 2002).

Surveys conducted in 2003 documented four occurrences of *F. decumbens* in the study area, each in the vicinity of Pine Hill. These occurrences are clumps of few to several individuals generally clustered near roads or in clearings, including those created by transmission line towers and access roads. Transmission line maintenance was observed at one of these, causing damage to individuals growing in a clearing (the area was mechanically cleared of brush, including *F. decumbens*, which was resprouting). Elsewhere, removal of *Pinus sabiana* trees under the transmission lines appears to have created habitat openings such as those favored by *F. decumbens*. Each of these occurrences is on private lands contained within the USFWS-proposed Pine Hill Preserve parcel (USFWS 2002). Although Project transmission lines also traverse part of the USFWS-proposed Penny Lane preserve parcel, no *F. decumbens* occurs in that part of the study area.

Fremontodendron decumbens is considered a fire-dependent species, apparently requiring fire for adequate seed germination and seedling establishment (USFWS 2002). Dense stands of very large Arctostaphylos viscida near the F. decumbens occurrences suggest few fires have occurred there in the recent past. Annual grasses are common in the Pine Hill area, most commonly Aegilops triuncialis. It is often found in the open and disturbed areas to which F. decumbens appears to be restricted. Development in the Pine Hill area and El Dorado County as a whole is accelerating, and is expected to influence F. decumbens by encouraging direct habitat loss, habitat fragmentation, and changes to fire regimes (USFWS 2002).

4.1.8 *Phacelia stebbinsii* (Stebbins' phacelia)

Phacelia stebbinsii is an annual herb in the Hydrophyllaceae (waterleaf family), and a federal species of concern, CNPS list 1B, and ENF sensitive plant. *Phacelia stebbinsii* occurs in cismontane woodland, lower montane coniferous forests, and meadows and seeps (CNPS 2001), although in the study area it is only found on poorly vegetated rock outcrops and roadcuts. It is found at elevations ranging from 2,000 to 6,600 feet and is known to occur in El Dorado, Nevada, and Placer counties (CNPS 2001).

Surveys conducted in 2000 and 2003 documented several occurrences of *P. stebbinsii* in two general areas. Several thousand individuals occur as numerous discrete patches in the switchback roadcut created by the access road to Camino Reservoir; these were considered as two main occurrences for mapping purposes. In addition, several hundred plants occur on a south-facing rock/talus slope and the opposite north-facing slope directly below Union Valley

Dam. This occurrence is within 100 feet of various UARP access roads and facilities, but the slopes themselves are relatively undisturbed. Finally, in nearby Junction Valley Reservoir, 12 separate clusters of *P. stebbinsii* occur on the east shore, west shore, and southeastern lobe, each on rock outcrops in mixed chaparral and forest. While each is within the FERC Project Boundary, none are in proximity to UARP facilities or roads.

Bromus tectorum, Aegilops triuncialis, Centaurea solstitialis, and Chondrilla juncea (rush skeletonweed, in its highest observed occurrence in the study area) all occur in the vicinity of the Camino Reservoir occurrence of *P. stebbinsii*. Of these, only *B. tectorum* occupies the same microsites as *P. stebbinsii*, where it represents a minority of the overall sparse vegetative cover. Similarly, *B. tectorum* was observed growing sparsely at some of the Junction Reservoir occurrences of *P. stebbinsii*.

4.1.9 *Phacelia vallicola* (mariposa phaceilia)

Phacelia vallicola is an annual herb in the Hydrophyllaceae (waterleaf family), and an ENF watch list plant. Phacelia vallicola occurs in open, gravelly to rocky soils in chaparral, oak-pine woodlands and coniferous forests. It is found at elevations ranging from approximately 2,000 to 7,900 feet and is known to occur in the southern Cascade Range and north and central Sierra Nevada. Surveys conducted in 2000 documented a population of approximately 150 individuals growing on the roadcut created by the access road to Camino Reservoir. It was still extant in 2003, growing in two patches interspersed with P. stebbinsii. Bromus tectorum, Aegilops triuncialis, Centaurea solstitialis, and Chondrilla juncea all occur in the vicinity, though only B. tectorum occupied the same microsites as P. vallicola.

4.1.10 Pseudostellaria sierrae (no common name)

Pseudostellaria sierrae is a white-flowered rhizomatous perennial in the pink family (Caryophyllaceae). It is a recently discovered taxon, first described in 2002. Although currently unlisted, it is included here to facilitate an evaluation of its status on the ENF. Pseudostellaria sierrae has previously been reported from Plumas, Nevada, Placer, and Tuolumne Counties, but ours is apparently the first report of the species in El Dorado County (Rabeler & Hartman 2002) and the ENF (Taylor 2004). Its habitat is mixed oak-pine or fir forests, at approximately 4,100 – 6,500 feet in elevation (Rabeler & Hartman 2002).

Surveys conducted in 2003 documented two occurrences of *P. sierrae*, each directly under UARP transmission lines on moderately steep, partially forested slopes southwest of Junction Reservoir. Neither occurs in proximity to UARP facilities or maintenance roads, although vegetation clearing (tree removal) restricts canopy cover in one. Both occurrences appeared vigorous, and several hundred stems were observed in each. (It is unclear how many individuals this represents.) No weeds were observed.

4.1.11 <u>Senecio layneae (Layne's ragwort)</u>

Senecio layneae is a perennial herb in the Asteraceae (sunflower family), and a federally-listed threatened, California rare, CNPS list 1B and ENF sensitive plant. Senecio layneae occurs in

chaparral and cismontane woodland communities on rocky serpentine or gabbroic substrates. It is found at elevations ranging from approximately 650 to 3,300 feet and is known to occur in El Dorado, Tuolumne and Yuba counties (CNPS 2001), and is one of six federally relevant taxa recently addressed in a USFWS Recovery Plan (USFWS 2002).

Surveys conducted in 2003 documented two large, diffuse occurrences of *S. layneae* in the study area, each on gabbro soils in the transmission line corridor near Pine Hill. These occurrences consist of several hundred to several thousand individuals scattered in and along roads and clearings, including those created by transmission line towers and access roads. In the study area, *S. layneae* appears restricted to disturbed, poorly vegetated and/or eroded areas, including roads. *Senecio layneae* is considered a disturbance-dependent species (USFWS 2002) and appears restricted to disturbed, poorly vegetated and/or eroded sites in the study area. Both occurrences are at least partially contained within the USFWS-proposed Pine Hill Preserve and Penny Lane Preserve parcels (USFWS 2002).

Annual grasses are common in the Pine Hill area, most commonly *Aegilops triuncialis*. It is often found in the open and disturbed areas to which *S. layneae* appears to be restricted. Development in the Pine Hill area and El Dorado County as a whole is accelerating, and is expected to influence *S. layneae* by encouraging direct habitat loss and habitat fragmentation (USFWS 2002).

4.1.12 *Taxus brevifolia* (Pacific yew)

Taxus brevifolia is a shrub or small tree in the Taxaceae (yew family), and an ENF watch list species. It is found in coniferous forests at elevations ranging from sea level to approximately 5,000 feet, and in California is known from the Northwestern, Cascade Range, and Sierra Nevada floristic regions (Hickman 1993).

Surveys conducted in 2000 and 2003 documented four occurrences of *T. brevifolia* in the study area. Each occurrence supported fewer than ten individuals. One occurrence is at the mouth of Brush Creek as it drains to Brush Creek Reservoir, apparently unaffected by the Project but within the FERC Project Boundary. *Taxus brevifolia* also occurs once in the transmission line corridor approximately one mile west of Camino Reservoir, and twice near Long Canyon, southeast of Slab Creek Reservoir. The Long Canyon area occurrences are each in riparian zones that are entirely spanned by the transmission lines and apparently not influenced by the UARP; no tree removal or roads are in the area. The occurrence west of Camino Reservoir is at the edge of a riparian zone, in an area subject to over-story removal during transmission line maintenance; the single plant observed was yellowing and appeared unlikely to persist. No weeds were observed at any *Taxus brevifolia* occurrences.

4.1.13 *Viola tomentosa* (wooly violet)

Viola tomentosa is a perennial herb in the Violaceae (violet family), and a CNPS list 1B and ENF watch list plant. *Viola tomentosa* occurs in lower montane coniferous forests, subalpine coniferous forests, and upper montane coniferous forests in gravelly areas. It is found at

elevations ranging from approximately 1,400 to 6,600 feet and is found in El Dorado, Nevada, Placer, Plumas and Sierra counties (CNPS 2001).

Surveys conducted in 2000 and 2003 documented 17 occurrences of *V. tomentosa*. At Union Valley Reservoir, 12 occurrences totaling several thousands of individuals were located to the northeast of Union Valley Dam, at Wolf Creek campground, Wench Creek campground, the Peninsula Recreation Area, near Jones Fork Silver Creek, and at Camino Cove campground. Each of these are in uplands unaffected by the UARP, but within the FERC Project Boundary. At Gerle Reservoir, fewer than 100 individuals occur in the campground, again in uplands unaffected by the UARP but within the FERC Project Boundary. In and adjacent to the transmission line corridor, three occurrences were documented to the west and southwest of Loon Lake, supporting a total of several hundred individuals. Each of these is well removed from UARP transmission towers, roads, or facilities. A fourth occurrence in the transmission line corridor east of Robbs Peak Reservoir is adjacent to a UARP transmission tower and its access road; ORV use of this road had damaged numerous plants.

Recreational use is extensive at each *V. tomentosa* occurrence near Union Valley and Gerle Reservoirs; footpaths, vehicle use, and general trampling are common. In addition, timber harvest-related disturbance was observed at some of the Union Valley Reservoir occurrences. No weeds were observed.

4.1.14 *Wyethia reticulata* (El Dorado County mule ears)

Wyethia reticulata is a perennial herb in the Asteraceae, and a federal species of concern, CNPS list 1B and ENF watch list plant. Wyethia reticulata occurs in chaparral, cismontane woodland, and lower montane coniferous forests on clay or gabbroic substrates. It is found at elevations ranging from approximately 600 to 1,000 feet (CNPS 2001). Endemic to El Dorado County, and is one of six federally relevant taxa recently addressed in a USFWS Recovery Plan (USFWS 2002).

Surveys conducted in 2003 documented two large occurrences of *W. reticulata* in the study area (one is discontinuous), each on gabbro soils in the transmission line corridor, near Pine Hill. These occurrences consist of several hundred stems scattered in chaparral, partially forested areas, and along roads and clearings, including those created by transmission line towers and access roads. Both occurrences are at least partially contained within the USFWS-proposed Pine Hill Preserve and Penny Lane Preserve parcels (USFWS 2002).

Wyethia reticulata is considered fire-tolerant, but not fire-dependent (USFWS 2002). In the study area, it appears less disturbance-adapted than the other gabbro endemics, at times growing under dense shrub cover, and rarely in eroded or poorly vegetated areas.

Annual grasses are common in the Pine Hill area, most commonly *Aegilops triuncialis*. Development in the Pine Hill area and El Dorado County as a whole is accelerating, and is expected to influence *W. reticulata* by encouraging direct habitat loss and habitat fragmentation (USFWS 2002).

4.2 Noxious Weeds

Ten target species were documented from the study area in 2000 and 2003 (Table 4.2-1). Maps for all occurrences are provided in Appendix C to this technical report. GIS files are provided on CD by request.

Weeds are concentrated in the western section of the study area (see methods for section definitions), and are especially prevalent near development, along roadsides, in agricultural fields, and in annual grassland and oak woodland habitats. In this western area, physical disturbance is uniformly associated with dominance by *Centaurea solstitialis* (yellow starthistle) or Taeniatherum caput-medusae (medusahead). However, this dynamic is largely absent from the eastern, forested sections: few weeds occur in forested habitats in the study area, even where transmission line clearing has resulted in bare soil and sparsely vegetated areas. Burned lands areas along the Jones Fork-Union Valley transmission line are a notable exception, supporting strong infestations of *Bromus tectorum* and *B. diandrus*. UARP facilities were examined in 2000 and were found to support populations of Centaurea solstitialis (White Rock Powerhouse and access roads, Slab Creek Dam area and access roads, Camino Reservoir and Jaybird Powerhouse and access road, Union Valley Reservoir campgrounds); Cytisus scoparius (Scotch broom) (White Rock Powerhouse access roads, tunnel adit, and penstock); Aegilops triuncialis (goatgrass) (Slab Creek Reservoir access roads, Camino Reservoir access road); Carduus pychnocephalus (White Rock Powerhouse and access roads, Slab Creek Reservoir and access roads, Brush Creek Reservoir access road, Camino Reservoir access road) and Chondrilla juncea (rush skeletonweed) (Camino Reservoir access road) (KEA 2000).

Table 4.2-1. Target Noxious Weeds located during 2000 and 2003 survey efforts.					
Name	Common name	Distribution in Study Area			
Aegilops triuncialis	goatgrass	Uncommon to occasional in annual			
		grasslands and along roadsides.			
		Western and southwestern sections of			
		the study area.			
Carduus pycnocephalus	Italian thistle	Uncommon to occasional in annual			
		grasslands. Western and southwestern			
		sections of the study area.			
Centaurea solstitialis	yellow starthistle Common to dominant in phy				
		disturbed areas, especially roadsides			
		and developed areas. Western and			
		southwestern sections of the study area.			
Chondrilla juncea	rush skeletonweed Occasional along roadsides or in				
		developed areas. Western and			
		southwestern sections of the study area.			
Cytisus scoparius	Scotch broom	Occasional along roadsides and in			
		transmission line corridor.			
		Southwestern and upper western			
		sections of the study area.			
Genistia monspessulana	French broom	Occasional along roadsides and in			
		transmission line corridor.			
		Southwestern and upper western			
		sections of the study area.			

Table 4.2-1. Target Noxious Weeds located during 2000 and 2003 survey efforts.					
Name	Common name	Distribution in Study Area			
Lythrum salicaria	purple loosestrife	One occurrence in wetland/creek. Far western section of the study area.			
Bromus tectorum	cheatgrass	Occasional in annual grasslands and along roadsides; common in burned areas under transmission line. All sections of the study area.			
Bromus diandrus	ripgut grass	Occasional to dominant in annual grasslands, less often on roadsides; common in burned areas under transmission line. West, southwest, southeast sections of the study area.			
Taeniatherum caput-medusae	medudahead	Occasional to common in annual grasslands; dominant where physically disturbed. Western section of the study area.			

4.2.1 <u>Aegilops triuncialis (barbed goatgrass)</u>

Aegilops triuncialis is an annual in the Poaceae (grass family). Widespread in California and the west, it often infests fields, grasslands, and roadsides, typically below 3,300 feet in elevation (Hickman 1993). It is most common in lower-elevation annual grasslands in the west section of the study area, where it is generally mapped with other annual grasses in fields and Quercus douglasii woodlands, increasing with proximity to development and/or roads. Aegilops triuncialis rarely infests forested areas or less-disturbed habitats. Botanical surveys in 2000 found A. triuncialis at Slab Creek Reservoir access roads, and Camino Reservoir access road, its easternmost occurrence in the study area.

4.2.2 <u>Bromus diandrus (ripgut grass)</u>

Bromus diandrus is an annual in the Poaceae. Widespread in California and the west, it often infests fields, grasslands, and roadsides, typically below 6,600 feet in elevation (Hickman 1993). It is commonly found in lower-elevation annual grasslands in the western section of the study area, where it is generally mapped with other annual grasses in fields and Quercus douglasii woodlands, often in areas well removed from roads or development. Bromus diandrus rarely infests forested areas or less-disturbed habitats.

In the study area, *B. diandrus* was documented as far east as the Jones Fork-Union Valley transmission line corridor. This recently burned area is poorly vegetated, and appears to offer excellent habitat for *B. diandrus*, which occurs in several patches and may be in the early invasion stages. Bare soil and sparsely vegetated areas are common elsewhere in the transmission line corridor, but *B. diandrus* rarely occurs.

4.2.3 Bromus tectorum (cheatgrass)

Bromus tectorum is an annual in the Poaceae. Widespread in California and the west, it often infests fields, grasslands, and roadsides, typically below 7,200 feet in elevation. It is occasionally found in lower-elevation annual grasslands in the west section of the study area, where it is generally mapped with other annual grasses in fields and *Quercus douglasii* woodlands. Bromus tectorum rarely infests forested areas or less-disturbed habitats.

In the study area, B. tectorum was documented as far east as the Jones Fork-Union Valley transmission line corridor. This recently burned area is poorly vegetated, and appears to offer excellent habitat for B. tectorum, which occurs throughout the area. Bare soil and sparsely vegetated areas are common elsewhere in the transmission line corridor, but B. tectorum rarely occurs.

4.2.4 Carduus pychnocephalus (Italian thistle)

Carduus pychnocephalus is an annual or biennial in the Asteraceae. Widespread in California and the west, it often infests fields, grasslands, and roadsides, typically below 3,300 feet in elevation (Bossard et al. 2000, Hickman 1993). It is occasionally found as patches in the western transmission line corridor, where it is occurs with annual grasses in fields and *Ouercus douglasii* woodlands. Carduus pychnocepalus rarely infests forested areas or less-disturbed habitats, and was not often observed outside the western section of the study area. Botanical surveys in 2000 found Carduus pychnocephalus at the following UARP facilities: White Rock Powerhouse and access roads, Slab Creek Reservoir and access road, Brush Creek Reservoir access road and Camino Reservoir access road (KEA 2000).

4.2.5 *Centaurea solstitialis* (yellow starthistle)

Centaurea solstitialis is an annual in the Asteraceae. Widespread in California and the west, it often infests fields, grasslands, and roadsides, typically below 4,300 feet in elevation (Bossard et al. 2000, Hickman 1993). It is particularly dominant in physically disturbed areas, where it can approach 100 percent cover, and heavily grazed agricultural fields. Centaurea solstitialis was also documented in upper, rarely flooded parts of riparian areas within lower UARP reaches, especially where disturbed by foot or vehicle traffic. Centaurea solstitialis rarely occurs in forested areas or less-disturbed habitats, but was documented as far east as the access road to Camino Reservoir, where a large infestation exists. Botanical surveys in 2000 found C. solstitialis at the following UARP facilities: White Rock Powerhouse and access roads, Slab Creek Dam area and access roads, Camino Reservoir and Jaybird Powerhouse and access road, and Union Valley Reservoir campgrounds.

4.2.6 Chondrilla juncea (rush skeleton weed)

Chondrilla juncea is a biennial or perennial in the Asteraceae. Uncommon in much of California, it infests roadsides and disturbed areas, most often below 2,000 feet in elevation (Hickman 1993). It follows a similar pattern in the study area, where it occasionally infests roadsides and developed sites in the western and southwestern sections of the study area.

Chondrilla juncea was also documented in upper, rarely flooded parts of riparian areas within lower UARP Reaches, but only where disturbed by foot or vehicle traffic. Botanical surveys in 2000 found Chondrilla juncea at the access road to Camino Reservoir, its easternmost occurrence in the study area.

4.2.7 <u>Cytisus scoparius (Scotch broom)</u>

Cytisus scoparius is a shrub in the Fabaceae (pea family). Uncommon in much of California, it infests roadsides and disturbed areas as well as forests, riverbanks, and grasslands, usually at less than 3,300 feet in elevation (Bossard et al. 2000, Hickman 1993). It follows a similar pattern in the study area, where it occasionally infests roadsides, UARP facilities (especially under towers and penstocks), and adjacent forests. Cytisus scoparius was also documented in upper, rarely flooded parts of riparian areas within lower UARP reaches, especially where disturbed by foot or vehicle traffic. It only occurs in the southwest and upper parts of the western sections of the study area. Botanical surveys in 2000 found C. scoparius at White Rock Powerhouse, tunnel adit, penstock, and associated access roads.

4.2.8 Genista monspessulana (French broom)

Genista monspessulana is a shrub in the Fabaceae (pea family). Similar in appearance to Cytisus scoparius, G. monspessulana has similar habitat preferences: roadsides and disturbed areas as well as forests, riverbanks, and grasslands (Bossard et al. 2000, Hickman 1993). In the study area, it occasionally infests roadsides, transmission line clearings and access roads, and adjacent forests, often co-occurring with C. scoparius. It occurs in the southwest and upper parts of the western sections of the study area.

4.2.9 *Lythrum salicaria* (purple loosestrife)

Lythrum salicaria is a perennial in the Lythraceae (loosestrife family). A wetland obligate, it infests streams, ditches, wetlands, and irrigation canals, typically below 3,300 feet in elevation (Bossard et al. 2000, Hickman 1993). 2003 surveys documented one occurrence of *L. salicaria*, growing in a creek in the transmission line corridor near Folsom Junction. It was not found outside the western section of the study area.

4.2.10 <u>Taeniatherum caput-medusae (medusahead)</u>

Taeniatherum caput-medusae is an annual in the Poaceae. Widespread in northern and central California, it often infests fields, grasslands, and roadsides (Bossard et al. 2000, Hickman 1993). It is commonly found in lower-elevation annual grasslands in the western section of the study area, where it is often mapped with other annual grasses in fields and *Quercus douglasii* woodlands, increasing with proximity to development and/or roads. It is particularly dominant in disturbed areas, where it can approach 100 percent cover in places. *Taeniatherum caput-medusae* rarely infests forested areas or less-disturbed habitats, and was not found outside the western section of the study area.

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APPENDIX A

SPECIAL-STATUS PLANTS WITH POTENTIAL TO OCCUR IN UARP SPECIAL-STATUS PLANTS STUDY AREA 1

Special-status plants	with potential to o	ccur in UARP s	pecial	-status	plant	s study	area ¹	
Scientific Name ²	Common Name	Family	Fed	ENF	CA	CNPS	Habitat Requirements	Flowering Range
Allium sanbornii var.		-					Chaparral, oak woodland; on	
congdonii	Congdon's onion	Lilaceae	none	W	none	4	serpentine or volcanic substrates	April-July
Allium sanbornii var.							Alpine boulder fields, typcially	
sanbornii	Sanborn's onion	Lilaceae	none	W	none	4	granitic	May-September
							Chaparral, closed cone forest, shale	
Arctostaphylos nissenana	Nissenan manzanita	Ericaceae	SC	S	none	1B	soils, 1450-3600 feet	February-March
							Easterly summits of the Sierra	
Astragalus whitneyi var.							Nevada; Open rocky places above	
lenophyllus	Whitney's milkvetch	Fabaceae	none	W	none	none	7,000 feet	July-August
							Valley and foothill grassland	
	San Joaquin						(alkaline), meadows, seeps, and	
Atriplex joaquiniana	spearscale	Chenopodiaceae	none	none	none	1B	playas; 0-1000 feet	April-October
							Chaparral, cismontane woodland,	
Balsamorhiza macrolepis							valley and foothill grassland;	
var. macrolepis	big-scale balsamroot	Asteraceae	none	none	none	1B	sometimes serpentine; 300-4600 feet	: March-June
Bolandra californica	Sierra bolandera	Saxifragaceae	none	W	none	4	Red fir to yellow pine forest; wet crevices and rocks	June-July
Bounara carryornica	Sierra bolandera	Saxinagaceae	попс	**	попс		Grassy fields, coniferous woods	June-Jury
							near streams; near Fallen Leaf Lake	
Botrychium ascendens	Upswept moonwort	Ophioglossaceae	SC	S	none	2	in ENF	July-August
Bou yenium useenaens	Opswept moonwort	Opinogiossaceae	30		попс		Bogs, fens, meadows and marshes,	July-August
Botrychium crenulatum	Scalloped moonwort	Ophioglossaceae	SC	S	none	1B	Lower coniferous forest	June-July
Bon yeniam erenaiam	Scanopea moonwort	Opinogiossaceae	БС		попс	110	Meadows, subalpine and upper	June July
Botrychium lunaria	Moonwart	Ophioglossaceae	none	S	none	2	coniferous forest	August
Bon yeniam tananta	Wiodiwait	opinogrossaceae	попс		попе		Meadows in lower mixed conifer	Tugust
Botrvchium montanum	Western goblin	Ophioglossaceae	none	S	none	2	forest	July-August
	Western Beerm	e piniegiess ue euc	110110		110110		101431	tuly llugust
							South-facing rocky openings; mixed	
Calochortus clavatus var.	Pleasant Valley						conifer and ponderosa pine; Union	
avius	mariposa lily	Lilaceae	SC	S	none	1B	Valley Reservoir and south	June-July
	Stebbins' morning-						Chaparral, cismontane woodland;	<u> </u>
Calystegia stebbinsii	glory	Convolvulaceae	Е	none	Е	1B	600-2400'	April-July
	<i>∪ </i>					- 2		F J

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Special-status plants with potential to occur in UARP special-status plants study area ¹									
Scientific Name ²	Common Name	Family	Fed	ENF	CA	CNPS	Habitat Requirements	Flowering Range	
							Wet areas, marshes, swamps, fens,		
Carex limosa	shore sedge	Cyperaceae	none	none	none	2	lake margins	June-August	
							Chaparral, cismontane woodland/		
							serpintine or gabbroic; 850-2070		
Ceanothus roderickii	Pine Hill ceanothus	Rhamnaceae	E	none	rare	1B	feet	May-June	
Chaenactis douglasii var.							Alpine boulder fields, typcially		
alpina	Alpine dusty maidens	Asteraceae	none	none	none	2	granitic	August	
Chlorogalum							Chaparral, oak woodland; serpentine		
grandiflorum	Red Hills soaproot	Lilaceae	SC	W	none	1B	or gabbroic soils	May-June	
Clarkia biloba ssp.							Chaparral, cismontane woodland;		
brandegeae	Brandegee's clarkia	Onagraceae	SC	none	none	1B	often on roadcuts; 970-2900 feet	May-July	
-	-						Moist forested hillslopes with		
	Mountain lady's						Rhododendron, Cornus stolonifera;		
Cypripedium montanum	slipper	Orchidaceae	none	S	none	4	not known from ENF	May-July	
Draba asterophora var.							Subalpine forest and alpine boulder		
asterophora	Tahoe draba	Brassicaceae	none	S	none	1B	fields	July-August	
Draba asterophora var.									
macrocarpa	Cup Lake draba	Brassicaceae	SC	S	none	1B	Rocky subalpine forest	July	
	Round-leaved								
Drosera rotundifolia	sundew	Droseraceae	none	W	none	none	Bogs and fens	July-August	
							Wet meadows, marshes; Sierran		
							crest; no populations confirmed in		
Epilobium howellii	Subalpine fireweed	Onagraceae	none	S	none	1B	ENF	July-August	
							Chaparral, oak woodland; on		
Eriogonum tripodium	Tripod buckwheat	Polygonaceae	none	S	none	4	serpentine	May-July	
							Meadows and seeps, upper montane		
Eriogonum umbellatum	Donner Pass						coniferous forest/volcanic, rocky;		
var. torreyanum	buckwheat	Polygonaceae	none	none	none	1B	6000'-8600'	July-September	
							Chaparral, cismontane woodland /		
Fremontodendron							serpine or gabbroic soils; 1400-2500		
decumbens	Pine Hill flannelbush	Sterculiaceae	Е	none	rare	1B	feet	April-July	

Special-status plants with potential to occur in UARP special-status plants study area ¹									
Scientific Name ²	Common Name	Family	Fed	ENF	CA	CNPS	Habitat Requirements	Flowering Range	
							Chaparral, cismontane woodland,		
							lower montane coniferous forest /		
Fritillaria eastwoodiae	Butte County fritillary	Lilaceae	none		none	3	sometimes serpentine; 160-4900 fee	t March-May	
							Chaparral, cismontane woodland,		
Galium californicum ssp.							lower montane coniferous forest /		
sierrae	El Dorado bedstraw	Rubiaceae	Е		rare	1B	gabbroic; 330-1920 feet	May-June	
							Bogs, fens, meadows, marshes,		
	American manna						seeps (streambanks and lake		
Glyceria grandis	grass	Poaceae	none	none	none	2	margins); 50- 6500 feet	June-August	
	Bogg's Lake hedge-						Marshes, swamps, and lake margins		
Gratiola heterosepala	hyssop	Scrophulariaceae	none	none	Е	1B	vernal pools / clay; 32- 7800 feet	April-August	
Helianthemum	 	1					Chaparral (serpentine, gabbroic,	1 0	
suffrutescens	Bisbee Peak rush-rose	Cistaceae		none	none	3	Ione soils); 100-2760 feet	April-June	
00							Chaparral, oak woodland; Acid soils	•	
Horkelia parryii	Parry's horkelia	Rosaceae	SC	S	none	1B	of the Ione formation	April-June	
-							Cismontane woodland, lower	-	
							montane coniferous forest / rocky,		
Jepsonia heterandra	foothil jepsonia	Saxifragaceae	none	none	none	4	metamorphic; 160- 1640'	August-December	
							Granite and slate outcrops, 6000+		
Lewisia kelloggii	Kellog's lewisia	Portulacaceae	none	W	none	none	feet	July-August	
							Subalpine forest and alpine boulder		
Lewisia longipetala	Long-petaled lewisia	Portulacaceae	SC	S	none	1B	fields	July-August	
							North-facing rock faces near		
							streams or seeps, lower montane		
Lewisia serrata	Saw-toothed lewisia	Portulacaceae	SC	S	none	1B	coniferous forest	May-June	
							Openings in chaparral, lower conifer	r	
Lilium humboltii	Humbolt lilly	Lilaceae	none	W	none	4	forest	June-July	
							Gravelly, volcanic clay "balds" in		
							chaparral, lower conifer forest; not		
Lomatium stebbinsii	Stebbins' lomatium	Apiaceae	SC	S	none	1B	known from ENF	March-April	

Scientific Name ²	Common Name	Family	Fed	ENF	CA	CNPS	Habitat Requirements	Flowering Range
		v					Openings of volcanic soil outcrops,	0 0
							lower coniferous forest; all	
Navarretia prolifera ssp.							populations south of Jaybird	
lutea	Yellow bur navarretia	Polemoniaceae	SC	S	none	4	Powerhouse	May-July
	northern adder's							
Ophioglossum pusillum	tongue	Ophioglossaceae	none	none	none	2	Marshes, swamps, and lake margins	July
							Metamorphic rocks and rubble often	
							near streams, lower montane	
Phacelia stebbinsii	Stebbin's phacelia	Hydrophyllaceae	SC	S	none	1B	coniferous forest	June
Phacelia vallicola	Mariposa phacelia	Hydrophyllaceae	none	W	none	none	Volcanic outcrops, dry sites	May-June
	Narrow-petaled						Dry sites in mixed conifer forest,	
Piperia leptopetala	reinorchid	Orchidaceae	none	W	none	none	chaparral	May-September
Potamogeton epihydrus							•	•
ssp. <i>nuttallii</i>	Nuttall's pondweed	Potamogetonaceae	none	none	none	2	quiet water of marshes and swamps	July- Aug
•	•	-					Lower montane coniferous forest,	-
Scutellaria galericulata	marsh skullcap	Lamiaceae	none	none	none	2	meadows, seeps, marshes	June-September
	-						Oak woodland, chaparral; serpentine	-
Senecio layneae	Layne's ragwort	Asteraceae	T	S	Rare	1B	or gabbroic soils	April-July
							Streambanks, ravines, lower	
							coniferous forest mostly below	
Taxus brevifolia	Pacific yew	Taxaceae	none	W	none	none	3,000 feet	May-September
							Chapparral, cismontane woodland,	-
							lower montane coniferous forest;	
Viburnum ellipticum	oval-leaved viburnum	Caprifoliaceae	none	none	none	2	690-4500'	May-June
•		•					Gravelly openings in yellow pine	·
Viola tomentosa	Wooly violet	Violaceae	none	W	none	1B	forest above 5,000 feet	May-August
							Chaparral, cismontane woodland,	-
	El Dorado county						lower montane coniferous forest /	
Wyethia reticulata	mule ears	Asteraceae	SC	none	none	1B	clay or gabbroic; 960-1600 feet	May-July

¹Does not include Allium jepsonii, which was not known from El Dorado or surrounding counties prior to 2003 surveys

¹Names in bold were observed during 2000 or 2003 botanical surveys

APPENDIX B

VASCULAR PLANTS OBSERVED DURING UARP BOTANICAL SURVEYS, 2000 AND 2003

Name	Common Name	Family	Special Status	Origin
Abies concolor	White fir	Pinaceae		Native
Abies magnifica var. magnifica	Red fir	Pinaceae		Native
Acer glabrum	Mountain maple	Aceraceae		Native
Acer macrophyllum	Bigleaf maple	Aceraceae		Native
Achillea millefolium	Yarrow	Asteraceae		Native
Achnatherum lemmonii	Lemmon's needlegrass	Poaceae		Native
Achnatherum nelsonii	Nelson's needlegrass	Poaceae		Native
Achnatherum occidentalis	Western needlegrass	Poaceae		Native
Achnatherum stillmanii	Stillman's needlegrass	Poaceae		Native
Achnatherum thurberiana	Thurber's needlegrass	Poaceae		Native
Aconitum columbianum	Monkshood	Ranunculaceae		Native
Actaea rubra	Baneberrry	Ranunculaceae		Native
Adenocaulon bicolor	Trail plant	Asteraceae		Native
Adenostoma fasciculata	Chamise	Rosaceae		Native
Adiantum jordanii	California maiden-hair	Pteridaceae		Native
Aegilops triuncialis	Barbed goatgrass	Poaceae		Exotic
Aesculus californica	California buckeye	Hippocastanaceae		Native
Agastache urticifolia	Horsemint	Lamiaceae		Native
Ageratina occidentalis	Ageratina	Asteraceae		Native
Agoseris grandiflora	Agoseris	Asteraceae		Native
Agoseris heterophylla	Woodland agoseris	Asteraceae		Native
Agoseris retrorsa	Spear-leaved agoseris	Asteraceae		Native
Agrostis exarata	Spike bentgrass	Poaceae		Native
Agrostis idahoensis	Idaho bentgrass	Poaceae		Native
Agrostis oregonensis	Oregon bentgrass	Poaceae		Native
Agrostis scabra	Rough bentgrass	Poaceae		Native
Agrostis gigantea	Redtop	Poaceae		Exotic
Agrostis stolonifera	Spreading bentgrass	Poaceae		Exotic
Agrostis variabilis	Variable bentgrass	Poaceae		Native
Ailanthus altissima	Tree of Heaven	Simaroubaceae		Native
Aira caryophyllea	Silver European hairgrass	Poaceae		Exotic
Allium amplectens	Paper onion	Liliaceae		Native
Allium campanulatum	Sierra onion	Liliaceae		Native
Allium jepsonii	Jepson's onion	Liliaceae	CNPS 1B	Native

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Name	Common Name	Family Special	Status Origin
Allium obtusum var. conspicuum	Red Sierra onion	Liliaceae	Native
Allium validum	Swamp onioin	Liliaceae	Native
Allophyllum divaricatum	Pink false gilia	Polemoniaceae	Native
Allophyllum integrifolium	Entire-leaved allophyllum	Polemoniaceae	Native
Alnus incana ssp. tenufolia	Mountain alder	Betulaceae	Native
Alnus rhombifolia	White alder	Betulaceae	Native
Amelanchier alnifolia	Serviceberry	Rosaceae	Native
Amelanchier cf. utahensis	Utah serviceberry	Rosaceae	Native
Amsinckia sp.	Fiddleneck	Boraginaceae	Native
Anagallis arvensis	Scarlet pimpernel	Primulaceae	Exotic
Anaphalis margaritacea	Pearly everlasting	Asteraceae	Native
Angelica breweri	Brewer's angelica	Apiaceae	Native
Antennaria cf. argentea	Pussy-toes	Asteraceae	Native
Antennaria rosea ssp. confinis	Rosy everlasting	Asteraceae	Native
Antennaria rosea var. rosea	Rosy everlasting	Asteraceae	Native
Anthemis cotula	Mayweed	Asteraceae	Native
Anthemis tinctoria	Golden marguerite	Asteraceae	Native
Anthoxanthum odoratum	Vernal grass	Poaceae	Exotic
Anthriscus caucalis	Bur-chervil	Apiaceae	Exotic
Antirrhinum leptaleum	Snapdragon	Scrophulariaceae	Native
Antirrhinum vexillo-calyculatum ssp. intermedium	Snapdragon	Scrophulariaceae	Native
Aphanes occidentalis	Western dewcup	Rosaceae	Native
Apocynum androsaemifolium	Bitter dogbane	Apocynaceae	Native
Apocynum cannabinum	Indian hemp	Apocynaceae	Native
Aquilegia formosa	Crimson columbine	Ranunculaceae	Native
Arabis glabra	Tower mustard	Brassicaceae	Native
Arabis platysperma	Pioneer rock cress	Brassicaceae	Native
Arabis rectissima var. rectissima	Recter's rock cress	Brassicaceae	Native
Arabis sp.	Rock cress	Brassicaceae	Native
Aralia californica	Elk clover	Apiaceae	Native
Arbutus menziesii	Madrone	Ericaceae	Native
Arceuthobium abietum	Fir dwarf mistletoe	Viscaceae	Native
Arceuthobium americanum	Lodgepole-pine dwarf mistletoe	Viscaceae	Native
Arceuthobium campylopodium	Western dwarf mistletoe	Viscaceae	Native

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Name	Common Name	Family	Special Status	Origin
Arceuthobium occidentale	Foothill-pine dwarf mistletoe	Viscaceae		Native
Arctostaphylos cf. mewukka	Indian manzanita	Ericaceae		Native
Arctostaphylos nevadensis	Pinemat manzanita	Ericaceae		Native
Arctostaphylos patula	Greenleaf manzanita	Ericaceae		Native
Arctostaphylos viscida	Whiteleaf manzanita	Ericaceae		Native
Arenaria kingii var. glabrescens	King's sandwort	Caryophyllaceae		Native
Arnica amplexicaulis	Streambank arnica	Asteraceae		Native
Arnica cordifolia	Heart-leaved arnica	Asteraceae		Native
Arnica parryi ssp. sonnei	Nodding arnica	Asteraceae		Native
Arrhenatherum elatius	Tall oatgrass	Poaceae		Exotic
Artemisia douglasiana	Mugwort	Asteraceae		Native
Asarum hartwegii	Hartweg's wild-ginger	Aristolochiaceae		Native
Asarum lemmonii	Lemmon's wild-ginger	Aristolochiaceae		Native
Asclepias cordifolia	Purple milkweed	Asclepiadaceae		Native
Aspidotis densa	Indian's dream	Pteridaceae		Native
Aster alpigenus var. andersonii	Alpine aster	Asteraceae		Native
Aster breweri	Brewer's aster	Asteraceae		Native
Aster campestris	Field aster	Asteraceae		Native
Aster frondosus	Marsh aster	Asteraceae		Native
Aster integrifolius	Entire-leaved aster	Asteraceae		Native
Aster oregonense	Oregon white aster	Asteraceae		Native
Aster sp.	Aster	Asteraceae		Native
Astragalus gambelianus	Gamble milk-vetch	Fabaceae		Native
Athyrium filix-femina	Lady fern	Dryopteridaceae		Native
Avena barbata	Slender wild oats	Poaceae		Exotic
Avena fatua	Oats	Poaceae		Exotic
Baccharis pilularis	Coyote bush	Asteraceae		Native
Barbarea orthoceras	American winter cress	Brassicaceae		Native
Botrychium multifidum	Leather grape-fern	Ophioglossaceae		Native
Boykinia major	Mountan boykinia	Saxifragaceae		Native
Boykinia occidentalis	Brook foam	Saxifragaceae		Native
Brachypodium distachyon	Brachypodium	Poaceae		Exotic
Brickellia californica	California brickellbush	Asteraceae		Native
Briza minor	Small quaking grass	Poaceae		Exotic

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Name	Common Name	Family	Special Status	Origin
Brodiaea elegans	Elegant brodiaea	Liliaceae		Native
Brodiaea sp.	Brodiaea	Liliaceae		Native
Bromus arenarius	Brome	Poaceae		Exotic
Bromus carinatus	California brome	Poaceae		Native
Bromus diandrus	Rip-gut brome	Poaceae		Exotic
Bromus hordeaceus	Soft chess	Poaceae		Exotic
Bromus laevipes	Brome	Poaceae		Native
Bromus madritensis ssp. rubens	Red brome	Poaceae		Exotic
Bromus orcuttianus	Orcutt's brome	Poaceae		Native
Bromus secalinus	Chess	Poaceae		Exotic
Bromus tectorum	Cheatgrass	Poaceae		Exotic
Calamagrostis canadensis	Bluejoint	Poaceae		Native
Calandrinia ciliata	Red maids	Portulacaceae		Native
Callitriche verna	Water-starwort	Callitrichaceae		Native
Calocedrus decurrens	Incense cedar	Cupressaceae		Native
Calochortus albus	Fairy lantern, Globe lily	Liliaceae		Native
Calochortus caeruleus	Beaver-tail grass	Liliaceae		Native
Calochortus ef. supurbus	Superb marisposa lily	Liliaceae		Native
Calochortus clavatus ssp. avius	Pleasant Valley mariposa lily	Liliaceae	Fed: SOC; CNPS: 1B; ENF: S	Native
Calochortus leichtlinii	Leichtlin's mariposa lily	Liliaceae		Native
Calochortus luteus	Yellow mariposa lily	Liliaceae		Native
Calochortus minimus	Lesser star-tulip	Liliaceae		Native
Calochortus monophyllus	Yellow star-tulip	Liliaceae		Native
Calycadenia fremontii	Fremont's calycadenia	Asteraceae		Native
Calycadenia multiglandulosa	Sticky rosinweed	Asteraceae		Native
Calycadenia truncata	Rosin weed	Asteraceae		Native
Calyptridium umbellatum	Pussy-paws	Portulacaceae		Native
Calystegia malacophylla ssp. malacophylla	Sierra morning-glory	Convolvulaceae		Native
Calystegia occidentalis	Western morning-glory	Convolvulaceae		Native
Cammassia quamash ssp. quamash	Common camas	Liliaceae		Native
Campanula prenanthoides	California harebell	Campanulaceae		Native
Capsella bursa-pastoris	Shepherd's purse	Brassicaceae		Exotic
Cardamine californica	California milkmaids	Brassicaceae		Native
Cardamine oligosperma	Bitter cress	Brassicaceae		Native

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Name	Common Name	Family	Special Status	Origin
Cardamine sp.	Cardamine	Brassicaceae		Native
Carduus pynchnocephalus	Italian thistle	Asteraceae		Exotic
Carex aquatilis	Water sedge	Cyperaceae		Native
Carex athrostachya	Slenderbeaked sedge	Cyperaceae		Native
Carex cf. heteroneura	Black sedge	Cyperaceae		Native
Carex cf. pachystachya	Chamisso sedge, thick-headed sedge	Cyperaceae		Native
Carex densa	Dense sedge	Cyperaceae		Native
Carex deweyana ssp. leptopoda	Shortscale sedge	Cyperaceae		Native
Carex echinata ssp. echinata	Spiny star sedge	Cyperaceae		Native
Carex feta	Greensheath sedge	Cyperaceae		Native
Carex filifolia var. erostrata	Thread-leaved sedge	Cyperaceae		Native
Carex fracta	Fragile-sheathed sedge	Cyperaceae		Native
Carex jonesii	Jones sedge	Cyperaceae		Native
Carex lemmonii	Lemmon's sedge	Cyperaceae		Native
Carex lenticularis var. lenticularis	Lens sedge	Cyperaceae		Native
Carex leporinella	Sierra-hare sedge	Cyperaceae		Native
Carex multicaulis	Many-stemmed sedge	Cyperaceae		Native
Carex nebrascensis	Nebraska sedge	Cyperaceae		Native
Carex praegracilis	Blackcreeper sedge	Cyperaceae		Native
Carex rossii	Ross sedge	Cyperaceae		Native
Carex serratodens	Bifid sedge	Cyperaceae		Native
Carex specifica	Specific sedge	Cyperaceae		Native
Carex subfusca	Brown sedge	Cyperaceae		Native
Carex utriculata	Beaked sedge	Cyperaceae		Native
Carex vesicaria var. vesicaria	Blister sedge, inflated sedge	Cyperaceae		Native
Carex whitneyi	Whitney's sedge	Cyperaceae		Native
Castilleja applegatei	Applegate's paintbrush	Scrophulariaceae		Native
Castilleja attenuata	Paintbrush	Scrophulariaceae		Native
Castilleja foliolosa	Felt paintbrush	Scrophulariaceae		Native
Castilleja lineariloba	Linear-lobed paintbrush	Scrophulariaceae		Native
Castilleja miniata	Gian red paintbrush	Scrophulariaceae		Native
Castilleja nana	Alpine paintbrush	Scrophulariaceae		Native
Castilleja pruinosa	Gray paintbrush	Scrophulariaceae		Native
Ceanothus cordulatus	Snow bush	Rhamnaceae		Native

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Name	Common Name	Family	Special Status	Origin
Ceanothus cuneatus	Buck brush	Rhamnaceae		Native
Ceanothus diversifolius	Pine mat	Rhamnaceae		Native
Ceanothus integerrimus	Deer brush	Rhamnaceae		Native
Ceanothus parvifolius	Littleleaf ceanothus	Rhamnaceae		Native
Ceanothus prostratus	Swaw carpet, mahala mats	Rhamnaceae		Native
Ceanothus roderickii	Pine Hill ceanothus	Rhamnaceae	Fed: E, CA: R, CNPS: 1B	Native
Ceanothus thyrsiflorus	Blue blossom	Rhamnaceae		Native
Centaurea solstitialis	Yellow star-thistle	Asteraceae		Exotic
Centaurium venustum	Canchalagua	Gentianaceae		Native
Cerastium fontanum ssp. vulgare	Common mouse-ear chickweed	Caryophyllaceae		Exotic
Cerastium viscosum	Sticky mouse-ear	Caryophyllaceae		Exotic
Cercis occidentalis	Redbud	Fabaceae		Native
Chaenactis douglasii var. douglasii	Dusty maiden	Asteraceae		Native
Chaenactis glabriuscula var. glabriuscula	Chaenactis	Asteraceae		Native
Chamaebaita foliolosa	Mountain misery	Rosaceae		Native
Chamaescyce serpyllifolia	Thyme-leaved spurge	Euphorbiaceae		Native
Chamomilla suaveolens	Pineapple weed	Asteraceae		Exotic
Cheilanthes gracillima	Lace fern	Pteridaceae		Native
Chenopodium botrys	Jerusalem oak	Chenopodiaceae		Exotic
Chimaphila menziesii	Pipsissiwa	Ericaceae		Native
Chimaphila umbellatum	Western Prince's pine	Ericaceae		Native
Chlorogalum grandiflorum	Red Hill soaproot	Liliaceae	Fed: SOC; CNPS: 1B; ENF: W	Native
Chlorogalum pomeridianum var. pomeridianum	Soaproot	Liliaceae		Native
Chondrilla juncea	Skeleton weed	Asteraceae		Exotic
Chorizanthe membranacea	Clustered spineflower	Polygonaceae		Native
Chorizanthe polygonoides var. polygonoides	Chorizanthe	Polygonaceae		Native
Chrysanthemum leucanthemum	Ox-eye daisy	Asteraceae		Exotic
Chrysolepis sempervirens	Bush chinquapin	Fagaceae		Native
Cicendia quadrangularis	Cicendia	Gentianaceae		Native
Circaea alpina	Enchanter's nightshade	Onagraceae		Native
Cirsium andersonii	Anderson's thistle	Asteraceae		Native
Cirsium occidentale var. californicum	California thistle	Asteraceae		Native
Cirsium vulgare	Bull thistle	Asteraceae		Exotic
Clarkia biloba ssp. biloba	Bilobed clarkia	Onagraceae		Native

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Name	Common Name	Family	Special Status	Origin
Clarkia gracilis ssp. gracilis	Slender clarkia	Onagraceae		Native
Clarkia heterandra	Clarkia	Onagraceae		Native
Clarkia purpurea ssp. quadrivulnera	Winecup clarkia	Onagraceae		Native
Clarkia rhomboidea	Rhomboid clarkia	Onagraceae		Native
Clarkia sp.	Clarkia	Onagraceae		Native
Clarkia williamsii	William's clarkia	Onagraceae		Native
Claytonia exigua	Claytonia	Portulacaceae		Native
Claytonia perfoliata	Miner's lettuce	Portulacaceae		Native
Claytonia sibirica	Candy flower	Portulacaceae		Native
Clematis lasiantha	Pipestems	Ranunculaceae		Native
Clematis ligusticifolia	Virgin's bower, yerba de chiva	Ranunculaceae		Native
Clintonia uniflora	Clintonia	Liliaceae		Native
Collinsia heterophylla	Chinese houses	Scrophulariaceae		Native
Collinsia sparsiflora	Spinsters blue-eyed Mary	Scrophulariaceae		Native
Collinsia torreyi var. torreyi	Collinsia	Scrophulariaceae		Native
Collomia grandiflora	Grand collomia	Polemoniaceae		Native
Collomia heterophylla	Collomia	Polemoniaceae		Native
Convolvulus arvensis	Bind weed	Convolvulaceae		Exotic
Conyza canadensis	Horse weed	Asteraceae		Exotic
Corallorhiza maculata	Spotted coralroot	Orchidaceae		Native
Cordylanthus tenuis	Bird's-beak	Scrophulariaceae		Native
Cornus nuttallii	Mountain dogwood	Cornaceae		Native
Cornus sericea	American dogwood	Cornaceae		Native
Cornus sessilus	Blackfruit dogwood	Cornaceae		Native
Corylus cornuta var. californica	Hazelnut	Betulaceae		Native
Crassula connata	Crassula	Crassulaceae		Native
Cryptantha affinis	Cryptantha	Boraginaceae		Native
Cryptantha echinella	Cryptantha	Boraginaceae		Native
Cryptantha intermedia	Common cryptantha	Boraginaceae		Native
Cryptantha sp.	Cryptantha	Boraginaceae		Native
Cryptogramma acrostichoides	American parsley fern	Pteridaceae		Native
Cryptantha simulans	Cryptantha	Boraginaceae		Native
Cymopterus terebinthinus var. californicus	Cymopterus	Apiaceae		Native
Cynoglossum occidentalis	Gramd hound's- tongue	Boraginaceae		Native

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Cynosurus cchinatus Dogtail grass Poaceae Exotic Cyperus bipartitus Shming flatsedge Cyperaceae Native Cyperus esculentus Chufa flatsedge Cyperaceae Exotic Cystopteris fragilis Brittle ferm Dryopteridaceae Native Cystopteris fragilis Brittle ferm Dryopteridaceae Exotic Cystopteris fragilis Brittle ferm Proporteridaceae Exotic Cystopteris fragilis Poaceae Exotic Cystopteris fragilis Poaceae Exotic Darbinolia californica var .americana California oatgrass Poaceae Native Danthonia intermedia Intermediate oatgrass Poaceae Native Danthonia intermedia Intermediate oatgrass Poaceae Native Dartisca glomerata One-spik oatgrass Poaceae Native Dartisca glomerata Durango root Datiscaceae Native Daucus pusillus Ratitesnake-weed Apiaceae Native Delphinium variegatum var. variegatum Royal larkspur Ranunculace	Name	Common Name	Family	Special Status	Origin
Cyperus eragrostis Umbrella sedge Cyperaceae Native Cyperus esculentus Chufa flatsedge Cyperaceae Exotic Cystopteris fragilis Britte fern Dryopteridaceae Native Cytisus scoparius Scotch broom Fabaceae Exotic Dauthonia californica var americana Orchard grass Poaceae Native Danthonia intermedia Intermediate oatgrass Poaceae Native Danthonia intermedia One-spike oatgrass Poaceae Native Darmera peltara Intermediate oatgrass Poaceae Native Darmera peltara Indian ribubarb, umbrella plant Saxifragaceae Native Darmera peltara Durango root Datiscaceae Native Daucus pusillus Rattlesnake-weed Apiaceae Native Delphinium variegatum var. variegatum Royal larkspur Ranunculaceae Native Delphinium sp. Larkspur Ranunculaceae Native Deschampsia caespitosa Tufted hairgrass Poaceae Native Deschampsia danthonioides<	Cynosurus echinatus	Dogtail grass	Poaceae		Exotic
Cyperus esculentus Chufa flatsedge Cyperaceae Exotic Cystost copartus Brittle fern Dryopteridaceae Native Cytisus scoparius Sootch broom Fabaceae Exotic Dactylis glomerata Orchard grass Poaceae Native Danthonia intermedia Intermediate oatgrass Poaceae Native Danthonia unispicata One-spike oatgrass Poaceae Native Darmera peltata Indian rhubarb, umbrella plant Saxifragaceae Native Datisca glomerata Durango root Datiscaceae Native Delphinium variegatum var. variegatum Royal larkspur Ranunculaceae Native Delphinium sp. Larkspur Ranunculaceae Native Deschampsia danthonioides Bush poppy Papaveraceae Native Deschampsia danthonioides Annual hairgrass Poaceae Native Deschampsia danthonioides Annual hairgrass Poaceae Native Dianthus ameria ssp. armeria Grass pink Caryophyllaceae Exotic Dicentra formosa<	Cyperus bipartitus	Shining flatsedge	Cyperaceae		Native
Cystopteris fragilis Brittle fem Dryopteridaceae Native Cytisus scoparius Scotch broom Fabaceae Exotic Dactylis glomerata Orchard grass Poaceae Exotic Danthonia californica var americana California oatgrass Poaceae Native Danthonia intermedia Intermediate oatgrass Poaceae Native Danthonia intermedia One-spike oatgrass Poaceae Native Danthonia intermedia Indian rhubarb, umbrella plant Saxifragaceae Native Danthonia unispicata Indian rhubarb, umbrella plant Saxifragaceae Native Daurius pusillus Burlia particularia Apiaceae Native Daucus pusillus Rattlesnake-weed Apiaceae Native Delphineum variegatum var. variegatum Royal larkspur Ranunculaceae Native Delphineum variegatum var. variegatum Royal larkspur Ranunculaceae Native Delphinium sp. Larkspur Ranunculaceae Native Dehnomecon ridgida Bus oppy Papaveraceae Native Deschampsia caespitosa Tufled hairgrass Poaceae	Cyperus eragrostis	Umbrella sedge	Cyperaceae		Native
Cytisus scoparius Scotch broom Fabaceae Exotic Dactylis glomerata Orchard grass Poaceae Exotic Danthonia californica var .americana California oatgrass Poaceae Native Danthonia intermedia Intermediate oatgrass Poaceae Native Darnthonia unispicata One-spike oatgrass Poaceae Native Darmera peltata Indian rhubarb, umbrella plant Saxifragaceae Native Datisca glomerata Durango root Datisca glomerata Native Daucus pusillus Rattlesnake-weed Apiaceae Native Delphinieum variegatum var. variegatum Royal larkspur Ranunculaceae Native Delphinieum variegatum var. variegatum Royal larkspur Ranunculaceae Native Delphinium sp. Larkspur Ranunculaceae Native Delphinium sp. Larkspur Ranunculaceae Native Deschampsia caespitosa Tufted hairgrass Poaceae Native Deschampsia elongata caespitosa Tufted hairgrass Poaceae Native Dicentra formosa Bleeding heart Papaveraceae Native	Cyperus esculentus	Chufa flatsedge	Cyperaceae		Exotic
Dactylis glomerata Orchard grass Poaceae Exotic Danthonia californica var .americana California oatgrass Poaceae Native Danthonia intermedia Intermediate oatgrass Poaceae Native Danthonia unispicata One-spike oatgrass Poaceae Native Damtera peltata Indian rhubarb, umbrella plant Saxifragaceae Native Datisca glomerata Durango root Datiscaceae Native Daucus pusillus Rattlesnake-weed Apiaceae Native Delphinium sp. Royal larkspur Ranunculaceae Native Dephinium sp. Larkspur Ranunculaceae Native Dendromecon ridgida Bush poppy Papaveraceae Native Deschampsia caespitosa Tufled hairgrass Poaceae Native Deschampsia danthonioides Annual hairgrass Poaceae Native Deschampsia elongata Slender hairgrass Poaceae Native Dichelostemma capitatum Blue dicks Caryophyllaceae Exotic Dichelostemma capitatum	Cystopteris fragilis	Brittle fern	Dryopteridaceae		Native
Danthonia californica var americana California oatgrass Poaceae Native Danthonia intermedia Intermediate oatgrass Poaceae Native Danthonia unispicata One-spike oatgrass Poaceae Native Darmera peltata Indian rhubarb, umbrella plant Saxifragaceae Native Datisca glomerata Durango root Datiscaceae Native Delphineum variegatum var. variegatum Royal larkspur Ranunculaceae Native Delphinium sp. Larkspur Ranunculaceae Native Deschampsia caespitosa Bush poppy Papaveraceae Native Deschampsia caespitosa Tufted hairgrass Poaceae Native Deschampsia delongata Slender hairgrass Poaceae Native Dicanthus armeria sp. armeria Grass pink Caryophyllaceae Native Dicentra formosa Bleeding heart Papaveraceae Native Dichelostemma capitatum Blue dicks Liliaceae Native Dichelostemma valubile Twining brodiaea Liliaceae Native	Cytisus scoparius	Scotch broom	Fabaceae		Exotic
Danthonia intermedia Intermediate oatgrass Poaceae Native Danthonia unispicata One-spike oatgrass Poaceae Native Darmera peltata Indian rhubarb, umbrella plant Saxifragaceae Native Datisca glomerata Durango root Datiscaceae Native Daucus pusillus Rattlesnake-weed Apiaceae Native Delphineum variegatum var. variegatum Royal larkspur Ranunculaceae Native Delphinium spicata Bush poppy Ranunculaceae Native Dendromecon ridgida Bush poppy Papaveraceae Native Deschampsia caespitosa Tufted hairgrass Poaceae Native Deschampsia danthonioides Annual hairgrass Poaceae Native Deschampsia danthonioides Annual hairgrass Poaceae Native Deschampsia danthonioides Grass pink Caryophyllaceae Exotic Dichelostempsia danthonioides Bleeding heart Papaveraceae Native Dichelostemma capitatum Bleeding heart Papaveraceae Native	Dactylis glomerata	Orchard grass	Poaceae		Exotic
Danthonia unispicataOne-spike oatgrassPoaceaeNativeDarmera peltataIndian rhubarb, umbrella plantSaxifragaceaeNativeDatisca glomerataDurango rootDatiscaceaeNativeDaucus pusillusRattlesnake-weedApiaceaeNativeDelphineum variegatum var. variegatumRoyal larkspurRanunculaceaeNativeDelphineum sp.LarkspurRanunculaceaeNativeDendromecon ridgidaBush poppyPapaveraceaeNativeDeschampsia caespitosaTufted hairgrassPoaceaeNativeDeschampsia denthonioidesAnnual hairgrassPoaceaeNativeDeschampsia elongataSlender hairgrassPoaceaeNativeDicanthus armeria ssp. armeriaGrass pinkCaryophyllaceaeExoticDicentra formosaBleeding heartPapaveraceaeNativeDichelostemma capitatumBlue dicksLiliaceaeNativeDichelostemma unlitiflorumWild hyacinthLiliaceaeNativeDichelostemma volubileTwining brodiaeaLiliaceaeNativeDisporum hookeriHooker's fairybellLiliaceaeNativeDrosera rotundifoliaRound-leaved sundewDroseraceaeENF: WNativeDrosera rotundifoliaRound-leaved sundewDroseraceaeENF: WNativeDryopteris argutaWood fernDryopteridaceaeNativeDryopteris sp.Wood fernDryopteridaceaeNativeDrosera acicularis var. acicularisNeedle spikerush<	Danthonia californica var .americana	California oatgrass	Poaceae		Native
Darmera peltataIndian rhubarb, umbrella plantSaxifragaceaeNativeDatisca glomerataDurango rootDatiscaceaeNativeDaucus pusillusRattlesnake-weedApiaceaeNativeDelphineum variegatum var. variegatumRoyal larkspurRanunculaceaeNativeDelphinium sp.LarkspurRanunculaceaeNativeDendromecon ridgidaBush poppyPapaveraceaeNativeDeschampsia caespitosaTufted hairgrassPoaceaeNativeDeschampsia danthonioidesAnnual hairgrassPoaceaeNativeDeschampsia elongataSlender hairgrassPoaceaeNativeDicanthus armeria ssp. armeriaGrass pinkCaryophyllaceaeExoticDichelostemma capitatumBlue dicksLiliaceaeNativeDichelostemma multiflorumWild hyacinthLiliaceaeNativeDichelostemma volubileTwining brodiaeaLiliaceaeNativeDraperia systylaDraperiaHydrophyllaceaeNativeDrosera rotundifoliaRound-leaved sundewDroseraceaeENF: WNativeDryopteris argutaWood fernDryopteridaceaeNativeDryopteris sp.Wood fernDryopteridaceaeNativeDudleya cymosaHen and chickensCrassulaceaeNativeEleocharis acicularis var. acicularisNeedle spikerushCyperaceaeNativeEleocharis acicularis var. acicularisSpikerushCyperaceaeNative	Danthonia intermedia	Intermediate oatgrass	Poaceae		Native
Datisca glomerata Durango root Datiscaceae Native Daucus pusillus Rattlesnake-weed Apiaceae Native Delphineum variegatum var. variegatum Royal larkspur Ranunculaceae Native Delphinium sp. Larkspur Ranunculaceae Native Dendromecon ridgida Bush poppy Papaveraceae Native Deschampsia caespitosa Tufted hairgrass Poaceae Native Deschampsia danthonioides Annual hairgrass Poaceae Native Deschampsia elongata Slender hairgrass Poaceae Native Dicanthus armeria ssp. armeria Grass pink Caryophyllaceae Exotic Dichelostemma capitatum Blue dicks Liliaceae Native Dichelostemma capitatum Wild hyacinth Liliaceae Native Dichelostemma volubile Twining brodiaea Liliaceae Native Disporum hookeri Hooker's fairybell Liliaceae Native Drosera rotundifolia Round-leaved sundew Drosera ceae ENF: W Native Dr	Danthonia unispicata	One-spike oatgrass	Poaceae		Native
Daucus pusillus Rattlesnake-weed Apiaceae Native Delphineum variegatum var. variegatur. Apiaceae Native Deschampsia alongata Slender hairgrass Poaceae Native Dicanthus armeria ssp. armeria Grass pink Caryophyllaceae Exotic Dicentra formosa Bleeding heart Papaveraceae Native Dichelostemma capitatum Blue dicks Liliaceae Native Dichelostemma volubile Twining brodiaea Liliaceae Native Disporum hookeri Hooker's fairybell Liliaceae Native Draperia Hydrophyllaceae ENF: W Native Drosera rotundifolia Round-leaved sundew Droseraceae ENF: W Native Dryopteris arguta Wood fern Dryopteridaceae N	Darmera peltata	Indian rhubarb, umbrella plant	Saxifragaceae		Native
Delphinium variegatum var. variegatumRoyal larkspurRanunculaceaeNativeDelphinium sp.LarkspurRanunculaceaeNativeDendromecon ridgidaBush poppyPapaveraceaeNativeDeschampsia caespitosaTufted hairgrassPoaceaeNativeDeschampsia danthonioidesAnnual hairgrassPoaceaeNativeDeschampsia elongataSlender hairgrassPoaceaeNativeDianthus armeria ssp. armeriaGrass pinkCaryophyllaceaeExoticDicentra formosaBleeding heartPapaveraceaeNativeDichelostemma capitatumBlue dicksLiliaceaeNativeDichelostemma wolubileWild hyacinthLiliaceaeNativeDichelostemma volubileTwining brodiaeaLiliaceaeNativeDraperia systylaDraperiaHydrophyllaceaeNativeDrosera rotundifoliaRound-leaved sundewDroseraceaeENF: WNativeDryopteris argutaWood fernDryopteridaceaeNativeDryopteris sp.Wood fernDryopteridaceaeNativeDudleya cymosaHen and chickensCrassulaceaeNativeEleocharis acicularis var. acicularisNeedle spikerushCyperaceaeNativeEleocharis acicularis var. bellaSpikerushCyperaceaeNative	Datisca glomerata	Durango root	Datiscaceae		Native
Delphinium sp.LarkspurRanunculaceaeNativeDendromecon ridgidaBush poppyPapaveraceaeNativeDeschampsia caespitosaTufted hairgrassPoaceaeNativeDeschampsia danthonioidesAnnual hairgrassPoaceaeNativeDeschampsia elongataSlender hairgrassPoaceaeNativeDianthus armeriaSender hairgrassPoaceaeNativeDicentra formosaBleeding heartPapaveraceaeNativeDichelostemma capitatumBlue dicksLiliaceaeNativeDichelostemma volubileTwining brodiaeaLiliaceaeNativeDisporum hookeriHooker's fairybellLiliaceaeNativeDraperia systylaDraperiaHydrophyllaceaeNativeDryopteris argutaWood fernDryopteridaceaeENF: WNativeDryopteris argutaWood fernDryopteridaceaeNativeDryopteris argutaWood fernDryopteridaceaeNativeDryopteris argutaWood fernDryopteridaceaeNativeDrudleya cymosaHen and chickensCrassulaceaeNativeEleocharis acicularis var. acicularisNeedle spikerushCyperaceaeNativeEleocharis acicularis var. bellaSpikerushCyperaceaeNative	Daucus pusillus	Rattlesnake-weed	Apiaceae		Native
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Eleocharis acicularis var. bella Spikerush Cyperaceae Native	Dudleya cymosa	Hen and chickens	Crassulaceae		Native
1	Eleocharis acicularis var. acicularis	Needle spikerush	Cyperaceae		Native
	Eleocharis acicularis var. bella	Spikerush	Cyperaceae		Native
	Eleocharis macrostachya	Common spikerush	Cyperaceae		Native
Elymus elymoides Squirreltail Poaceae Native		Squirreltail	Poaceae		Native

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Name	Common Name	Family	Special Status	Origin
Elymus glaucus	Blue wildrye	Poaceae		Native
Elymus lanceolatus ssp. lanceolatus	Wildrye	Poaceae		Native
Elymus multisetus	Big squirreltail	Poaceae		Native
Elymus trachycaulus	Slender wheatgrass	Poaceae		Native
Elymus trachycaulus ssp. subsecundus	Slender wheatgrass	Poaceae		Native
Elytrigia repens	Quackgrass	Poaceae		
Epilobium angustifolium ssp. circumvagum	Fire-weed	Onagraceae		Native
Epilobium brachycarpum	Panicled willowherb	Onagraceae		Native
Epilobium canum	California fuschia	Onagraceae		Native
Epilobium ciliatum	Common willowherb	Onagraceae		Native
Epilobium densiflorum	Dense flower willowherb	Onagraceae		Native
Epilobium foliosum	Manyflower willowherb	Onagraceae		Native
Epilobium glaberrimum ssp. glaberrimum	Willowherb	Onagraceae		Native
Epilobium minutum	Minute willowherb	Onagraceae		Native
<i>Epilobium</i> sp small white flrs	Willowherb	Onagraceae		Native
Equisetum arvense	Common horsetail	Equisetaceae		Native
Equisetum hymenale	Common scouring rush	Equisetaceae		Native
Ericameria sp.	Goldenbush	Asteraceae		Native
Erigeron breweri	Fleabane daisy	Asteraceae		Native
Erigeron foliosus	Leafy daisy	Asteraceae		Native
Erigeron lassenianus	Fleabane daisy	Asteraceae		Native
Erigeron peregrinus var. callianthemus	Fleabane daisy	Asteraceae		Native
Erigeron petrophilus	Rock daisy	Asteraceae		Native
Erigeron philadelphicus	Philadelphia daisy	Asteraceae		Native
Erigeron sp.	Erigeron	Asteraceae		Native
Eriodictyon californicum	Yerba santa	Hydrophyllaceae		Native
Eriogonum incanum	Frosty eriogonum	Hydrophyllaceae		Native
Eriogonum luteolum var. luteolum	Greene buckwheat	Polygonaceae		Native
Eriogonum nudum	Naked eriogonoum	Polygonaceae		Native
Eriogonum nudum var. deductum	Eriogonum	Polygonaceae		Native
Eriogonum prattenianum var. prattenianum	Buckwheat	Polygonaceae		Native
Eriogonum ursinum	Bear Valley eriogonum	Polygonaceae		Native
Eriogonum wrightii var. subscaposum	Wright buckwheat	Polygonaceae		Native
Eriophyllum lanatum	Woolly-yarrow	Asteraceae		Native

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Name	Common Name	Family	Special Status	Origin
Eriophyllum lanatum var. integrifolium	Oregon sunshine	Asteraceae		Native
Erodium botrys	Long-beaked storksbill	Geraniaceae		Exotic
Erodium cicutarium	Redstem filaree	Geraniaceae		Exotic
Erysimum capitatum ssp. capitatum	Douglas's wallflower	Brassicaceae		Native
Eschscholzia californica	California poppy	Papaveraceae		Native
Eschscholzia minutiflora	Pygmy poppy	Papaveraceae		Native
Euphorbia crenulata	Chinese caps	Euphorbiaceae		Native
Festuca arundinacea	Tall fescue	Poaceae		Exotic
Festuca californica	California fescue	Poaceae		Native
Festuca idahoensis	Idaho fescue	Poaceae		Native
Festuca occidentalis	Western fescue	Poaceae		Native
Festuca pratense	Meadow fescue	Poaceae		Exotic
Filago californica	California fluffweed	Asteraceae		Native
Filago gallica	Fluffweed	Asteraceae		Native
Fragaria vesca	Wood strawberry	Rosaceae		Native
Fragaria virginiana	Mountain strawberry	Rosaceae		Native
Fraxinus dipetala	California ash	Oleaceae		Native
Fremontodendron decumbens	Pine Hill flannelbush	Sterculiaceae	Fed: E; CA: R; CNPS: 1B	Native
Fritillaria atropurpurea	Spotted mountain bells	Liliaceae		Native
Fritillaria sp.	Fritillary	Liliaceae		Native
Galium aparine	Goose grass	Rubiaceae		Native
Galium bolanderi	Bolander's bedstraw	Rubiaceae		Native
Galium divaricatum	Lamarck's bedstraw	Rubiaceae		Native
Galium parisiense	Wall bedstraw	Rubiaceae		Exotic
Galium porrigens var. porrigens	Climbing bedstraw	Rubiaceae		Native
Galium sparsifolium	Sequoia bedstraw	Rubiaceae		Native
Galium trifidum	Bedstraw	Rubiaceae		Native
Galium triflorum	Sweet-scented bedstraw	Rubiaceae		Native
Garrya fremontii	Fremont's silk tassel	Garryaceae		Native
Gastridium ventricosum	Nit grass	Poaceae		Exotic
Gaultheria ovatifolia	Gaultheria	Ericaceae		Native
Gayophytum diffusum ssp. parviflorum	Gayophytum	Onagraceae		Native
Genista monspessulana	French broom	Fabaceae		Exotic
Geranium dissectum	Cut-leaved geranium	Geraniaceae		Exotic

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Geranium richardsonii Richardson's genaium Geraniaceae Native Geum macrophyllum Gilla and macrophyllum Bigleaf avens Rosacea Native Gilla capitata Gilla capitata Blue-headed gilia Polemoniaceae Native Gilla troclor spp. diffusa Bird's-eye gilia Polemoniaceae Native Gilta fricolor spp. diffusa Bird's-eye gilia Polemoniaceae Native Gilta fricolor spp. diffusa Bird's-eye gilia Polemoniaceae Native Gilta fricolor spp. diffusa Native Gilta fricolor spp. diffusa Bluecup Campanulaceae Native Gilta fricolor spp. diffusa Na	Name	Common Name	Family	Special Status	Origin
Geranium richardsonii Richardson's geranium Geraniacee Native Geum macrophyllum Geum macrophyllum Bigleaf avens Rosacea Native Gulta capitata Gilla capitata Blue-headed gilia Polemoniaceae Native Gilia capitata Gilla capitata Gilia Polemoniaceae Native Gilia tricolor spp. diffissa Gilta tricolor spp. diffissa Bluecup Campanulaceae Native Gilinosis siffissa Giltopsis siffissa Bluecup Campanulaceae Native Gilinosis specularioides Giltopsis specularioides Bluecup Campanulaceae Native Gilinosis specularioides Giltopsis specularioides Bluccup Campanulaceae Native Gilinosis specularioides Gilda a Fowl mannagrass Poaceae Native Gilyceria striata Asteraceae Native Gilyceria striata Mannagrass Poaceae Native Gilyceria striata Asteraceae Native Gilyalium stramineum Coulead Asteraceae Native Gilyalium stramineum Asteraceae </td <td>Geranium molle</td> <td>Dove's-foot geranium</td> <td>Geraniaceae</td> <td></td> <td>Exotic</td>	Geranium molle	Dove's-foot geranium	Geraniaceae		Exotic
Geum macrophyllum Bigleaf avens Rosaceac Native Gilia capitata Blue-headed gilia Polemoniaceae Native Gilia teptaelea Gilia Polemoniaceae Native Gilta tricolor spp, diffissa Bluecup Campanulaceae Native Githopsis diffissa Bluecup Campanulaceae Native Githopsis spulchella ssp. pulchella Bluecup Campanulaceae Native Githopsis specularioides Bluecup Campanulaceae Native Githopsis specularioides Bluecup Campanulaceae Native Giyceria elata Fowl mannagrass Poaceae Native Gyceria elata Mannagrass Poaceae Native Gnaphalium californicum California everlasting Asteraceae Native Gnaphalium palustre Lowland cudweed Asteraceae Native Gnaphalium sp. Cudweed Asteraceae Native Gnaphalium stramineum Cotudweed Asteraceae Native Grodyera oblongifolia Rattlesnake plantain Orchidac	Geranium richardsonii		Geraniaceae		Native
Gilia leptaelea Gilia vircolor spp. diffusa Bird's-eye gilia Polemoniaceae Native Gilto priso diffusa Gilto priso diffusa Bluecup Campanulaceae Native Githopsis pulchella spp. pulchella Bluecup Campanulaceae Native Githopsis spuchella spp. pulchella Bluecup Campanulaceae Native Githopsis specularioides Bluecup Campanulaceae Native Githopsis specularioides Native Githopsis specularioides Bluecup Campanulaceae Native Githopsis specularioides Native Githopsis specularioides Native Githopsis specularioides Native Githopsis specularioides Native Githopsis care alua Native Githopsis Care alual aluan Alu	Geum macrophyllum	Bigleaf avens	Rosaceae		Native
Gilia tricolor spp. diffusa Bird's-eye gilia Polemoniaceae Native Githopsis diffusa Bluecup Campanulaceae Native Githopsis spulchella Bluecup Campanulaceae Native Githopsis specularioides Bluecup Campanulaceae Native Giyceria elata Fowl mannagrass Poaceae Native Giyceria striata Mannagrass Poaceae Native Gnaphallum californicum California everlasting Asteraceae Native Gnaphallum canescens White everlasting Asteraceae Native Gnaphallum palustre Lowland cudweed Asteraceae Native Gnaphallum stramineum Cotdon-batting-plant Asteraceae Native Goodyera oblongifolia Rattlesnake plantain Orchidaceae Native Gritalola ebracteata Hedge-hyssop Scrophulariaceae Native Gritalola ihrsutula var. davyi Gumplant Asteraceae Native Heelmium bigelovii Biglow sneezweed Asteraceae Native Heleinuthella californica California helianthella Asteraceae Native <t< td=""><td>Gilia capitata</td><td>Blue-headed gilia</td><td>Polemoniaceae</td><td></td><td>Native</td></t<>	Gilia capitata	Blue-headed gilia	Polemoniaceae		Native
Githopsis diffusa Bluecup Campanulaceae Native Githopsis pulchella ssp. pulchella Bluecup Campanulaceae Native Githopsis specularioides Bluecup Campanulaceae Native Glyceria elata Fowl mannagrass Poaceae Native Gnaphalium californicum California everlasting Asteraceae Native Gnaphalium canescens White everlasting Asteraceae Native Gnaphalium palustre Lowland cudweed Asteraceae Native Gnaphalium sp. Cudweed Asteraceae Native Gnaphalium stramineum Cotton-batting-plant Asteraceae Native Goodyera oblongifolia Rattlesnake plantain Orchidaceae Native Grindelia hirsutula var. davyi Gumplant Asteraceae Native Hedyponis cretica Hedyponis Asteraceae Native Heleinuthella californica California helianthella Asteraceae Native Helianthelmun suffructescens Biglow sneezeweed Asteraceae CNPS: list 3 Native Hemizonia fitchii Fitch's tarplant Asteraceae CN	Gilia leptaelea	Gilia	Polemoniaceae		Native
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Glyceria striata Mannagrass Poaceae Native Gnaphalium californicum California everlasting Asteraceae Native Gnaphalium canescens White everlasting Asteraceae Native Gnaphalium stremineum Lowland cudweed Asteraceae Native Gnaphalium stp. Cudweed Asteraceae Native Gnaphalium stramineum Cotton-batting-plant Asteraceae Native Goodyera oblongifolia Rattlesnake plantain Orchidaceae Native Grindelia hirsutula var. davyi Gumplant Asteraceae Native Hedyponis cretica Hedyponis Asteraceae Native Helenium bigelovii Biglow sneezeweed Asteraceae Native Helianthella californica California helianthella Asteraceae Native Hemizonia fitchii Fitch's tarplant Asteraceae CNPS: list 3 Native Hemizonia fitchii Fitch's tarplant Asteraceae CNPS: list 3 Native Herniaria hirsuta ssp. hirsuta Herniaria Caryophyllaceae Exotic Hesperevax sp. Hesperevax Asteraceae	Githopsis specularioides	Bluecup	Campanulaceae		Native
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Gnaphalium canescensWhite everlastingAsteraceaeNativeGnaphalium palustreLowland cudweedAsteraceaeNativeGnaphalium sp.CudweedAsteraceaeNativeGnaphalium stramineumCotton-batting-plantAsteraceaeNativeGoodyera oblongifoliaRattlesnake plantainOrchidaceaeNativeGratiola ebracteataHedge-hyssopScrophulariaceaeNativeGrindelia hirsutula var. davyiGumplantAsteraceaeNativeHedyponis creticaHedyponisAsteraceaeExoticHelenium bigeloviiBiglow sneezeweedAsteraceaeNativeHelianthella californicaCalifornia helianthellaAsteraceaeNativeHelianthemum suffructescensBisbee Peak rush-roseCistaceaeCNPS: list 3NativeHemizonia fitchiiFitch's tarplantAsteraceaeNativeHerniaria hirsuta ssp. hirsutaHerniariaCaryophyllaceaeExoticHesperevaxAsteraceaeNativeHeterocodon rariflorumHeterocodonCampanulaceaeNativeHeterocodon rariflorumHeterocodonCampanulaceaeNativeHeuchera micranthaCrevice heucheraSaxifragaceaeNativeHeuchera micranthaCrevice heucheraSaxifragaceaeNativeHeuchera rubescensJack o' the rocksSaxifragaceaeNative	Glyceria striata	Mannagrass	Poaceae		Native
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Gnaphalium sp.CudweedAsteraceaeNativeGnaphalium stramineumCotton-batting-plantAsteraceaeNativeGoodyera oblongifoliaRattlesnake plantainOrchidaceaeNativeGratiola ebracteataHedge-hyssopScrophulariaceaeNativeGrindelia hirsutula var. davyiGumplantAsteraceaeNativeHedyponis creticaHedyponisAsteraceaeExoticHeleinum bigeloviiBiglow sneezeweedAsteraceaeNativeHelianthella californicaCalifornia helianthellaAsteraceaeNativeHemizonia fitchiiFitch's tarplantAsteraceaeCNPS: list 3NativeHerniaria hirsuta ssp. hirsutaHerniariaAsteraceaeNativeHesperevax sp.HesperevaxAsteraceaeNativeHeterocodon rariflorumHeterocodonCampanulaceaeNativeHeteromeles arbutifoliaToyonRosaceaeNativeHeuchera micranthaCrevice heucheraSaxifragaceaeNativeHeuchera rubescensJack o' the rocksSaxifragaceaeNative	Gnaphalium canescens	White everlasting	Asteraceae		Native
Gnaphalium stramineumCotton-batting-plantAsteraceaeNativeGoodyera oblongifoliaRattlesnake plantainOrchidaceaeNativeGratiola ebracteataHedge-hyssopScrophulariaceaeNativeGrindelia hirsutula var. davyiGumplantAsteraceaeNativeHedyponis creticaHedyponisAsteraceaeExoticHelenium bigeloviiBiglow sneezeweedAsteraceaeNativeHelianthella californicaCalifornia helianthellaAsteraceaeCNPS: list 3NativeHemizonia fitchiiFitch's tarplantAsteraceaeCNPS: list 3NativeHernacleum lanatumCow parsnipApiaceaeNativeHerniaria hirisuta ssp. hirsutaHerniariaCaryophyllaceaeExoticHesperevax sp.HesperevaxAsteraceaeNativeHeterocodon rariflorumHeterocodonCampanulaceaeNativeHeteromeles arbutifoliaToyonRosaceaeNativeHeuchera micranthaCrevice heucheraSaxifragaceaeNativeHeuchera rubescensJack o' the rocksSaxifragaceaeNative	Gnaphalium palustre	Lowland cudweed	Asteraceae		Native
Goodyera oblongifoliaRattlesnake plantainOrchidaceaeNativeGratiola ebracteataHedge-hyssopScrophulariaceaeNativeGrindelia hirsutula var. davyiGumplantAsteraceaeNativeHedyponis creticaHedyponisAsteraceaeExoticHelenium bigeloviiBiglow sneezeweedAsteraceaeNativeHelianthella californicaCalifornia helianthellaAsteraceaeCNPS: list 3NativeHelianthemum suffructescensBisbee Peak rush-roseCistaceaeCNPS: list 3NativeHernacleum lanatumCow parsnipApiaceaeNativeHernacleum lanatumCow parsnipApiaceaeExoticHerniaria hirsuta ssp. hirsutaHerniariaCaryophyllaceaeExoticHesperevax sp.HesperevaxAsteraceaeNativeHeterocodon rariflorumHeterocodonCampanulaceaeNativeHeteromeles arbutifoliaToyonRosaceaeNativeHeuchera micranthaCrevice heucheraSaxifragaceaeNativeHeuchera rubescensJack o' the rocksSaxifragaceaeNative	Gnaphalium sp.	Cudweed	Asteraceae		Native
Gratiola ebracteataHedge-hyssopScrophulariaceaeNativeGrindelia hirsutula var. davyiGumplantAsteraceaeNativeHedyponis creticaHedyponisAsteraceaeExoticHelenium bigeloviiBiglow sneezeweedAsteraceaeNativeHelianthella californicaCalifornia helianthellaAsteraceaeCNPS: list 3NativeHemizonia fitchiiFitch's tarplantAsteraceaeCNPS: list 3NativeHerniaria hirsuta ssp. hirsutaHerniariaCaryophyllaceaeNativeHesperevax sp.HesperevaxAsteraceaeNativeHeterocodon rariflorumHeterocodonCampanulaceaeNativeHeteromeles arbutifoliaToyonRosaceaeNativeHeuchera micranthaCrevice heucheraSaxifragaceaeNativeHeuchera rubescensJack o' the rocksSaxifragaceaeNative	Gnaphalium stramineum	Cotton-batting-plant	Asteraceae		Native
Grindelia hirsutula var. davyi Hedyponis cretica Hedyponis Biglow sneezeweed Helianthella californica Helianthella californica Helianthemum suffructescens Bisbee Peak rush-rose Cistaceae CNPS: list 3 Native Hemizonia fitchii Fitch's tarplant Herniaria hirsuta ssp. hirsuta Herniaria Herniaria Hesperevax Hesperevax Hesperevax Heterocodon rariflorum Heterocodon Heterocodon Toyon Rosaceae Native Heuchera micrantha Crevice heuchera Jack o' the rocks Saxifragaceae Native Saxifragaceae Native Saxifragaceae Native Native Saxifragaceae Native Native Saxifragaceae Native Saxifragaceae	Goodyera oblongifolia	Rattlesnake plantain	Orchidaceae		Native
Hedyponis creticaHedyponisAsteraceaeExoticHelenium bigeloviiBiglow sneezeweedAsteraceaeNativeHelianthella californicaCalifornia helianthellaAsteraceaeCNPS: list 3NativeHelianthemum suffructescensBisbee Peak rush-roseCistaceaeCNPS: list 3NativeHemizonia fitchiiFitch's tarplantAsteraceaeNativeHeracleum lanatumCow parsnipApiaceaeNativeHerniaria hirsuta ssp. hirsutaHerniariaCaryophyllaceaeExoticHesperevax sp.HesperevaxAsteraceaeNativeHeterocodon rariflorumHeterocodonCampanulaceaeNativeHeteromeles arbutifoliaToyonRosaceaeNativeHeuchera micranthaCrevice heucheraSaxifragaceaeNativeHeuchera rubescensJack o' the rocksSaxifragaceaeNative	Gratiola ebracteata	Hedge-hyssop	Scrophulariacea	e	Native
Helenium bigeloviiBiglow sneezeweedAsteraceaeNativeHelianthella californicaCalifornia helianthellaAsteraceaeCNPS: list 3NativeHelianthemum suffructescensBisbee Peak rush-roseCistaceaeCNPS: list 3NativeHemizonia fitchiiFitch's tarplantAsteraceaeNativeHeracleum lanatumCow parsnipApiaceaeNativeHerniaria hirsuta ssp. hirsutaHerniariaCaryophyllaceaeExoticHesperevax sp.HesperevaxAsteraceaeNativeHeterocodon rariflorumHeterocodonCampanulaceaeNativeHeteromeles arbutifoliaToyonRosaceaeNativeHeuchera micranthaCrevice heucheraSaxifragaceaeNativeHeuchera rubescensJack o' the rocksSaxifragaceaeNative	Grindelia hirsutula var. davyi	Gumplant	Asteraceae		Native
Helianthella californicaCalifornia helianthellaAsteraceaeNativeHelianthemum suffructescensBisbee Peak rush-roseCistaceaeCNPS: list 3NativeHemizonia fitchiiFitch's tarplantAsteraceaeNativeHeracleum lanatumCow parsnipApiaceaeNativeHerniaria hirsuta ssp. hirsutaHerniariaCaryophyllaceaeExoticHesperevax sp.HesperevaxAsteraceaeNativeHeterocodon rariflorumHeterocodonCampanulaceaeNativeHeteromeles arbutifoliaToyonRosaceaeNativeHeuchera micranthaCrevice heucheraSaxifragaceaeNativeHeuchera rubescensJack o' the rocksSaxifragaceaeNative	Hedyponis cretica	Hedyponis	Asteraceae		Exotic
Helianthemum suffructescensBisbee Peak rush-roseCistaceaeCNPS: list 3NativeHemizonia fitchiiFitch's tarplantAsteraceaeNativeHeracleum lanatumCow parsnipApiaceaeNativeHerniaria hirsuta ssp. hirsutaHerniariaCaryophyllaceaeExoticHesperevax sp.HesperevaxAsteraceaeNativeHeterocodon rariflorumHeterocodonCampanulaceaeNativeHeteromeles arbutifoliaToyonRosaceaeNativeHeuchera micranthaCrevice heucheraSaxifragaceaeNativeHeuchera rubescensJack o' the rocksSaxifragaceaeNative	Helenium bigelovii	Biglow sneezeweed	Asteraceae		Native
Hemizonia fitchiiFitch's tarplantAsteraceaeNativeHeracleum lanatumCow parsnipApiaceaeNativeHerniaria hirsuta ssp. hirsutaHerniariaCaryophyllaceaeExoticHesperevax sp.HesperevaxAsteraceaeNativeHeterocodon rariflorumHeterocodonCampanulaceaeNativeHeteromeles arbutifoliaToyonRosaceaeNativeHeuchera micranthaCrevice heucheraSaxifragaceaeNativeHeuchera rubescensJack o' the rocksSaxifragaceaeNative	Helianthella californica	California helianthella	Asteraceae		Native
Heracleum lanatumCow parsnipApiaceaeNativeHerniaria hirsuta ssp. hirsutaHerniariaCaryophyllaceaeExoticHesperevax sp.HesperevaxAsteraceaeNativeHeterocodon rariflorumHeterocodonCampanulaceaeNativeHeteromeles arbutifoliaToyonRosaceaeNativeHeuchera micranthaCrevice heucheraSaxifragaceaeNativeHeuchera rubescensJack o' the rocksSaxifragaceaeNative	Helianthemum suffructescens	Bisbee Peak rush-rose	Cistaceae	CNPS: list 3	Native
Herniaria hirsuta ssp. hirsutaHerniariaCaryophyllaceaeExoticHesperevax sp.HesperevaxAsteraceaeNativeHeterocodon rariflorumHeterocodonCampanulaceaeNativeHeteromeles arbutifoliaToyonRosaceaeNativeHeuchera micranthaCrevice heucheraSaxifragaceaeNativeHeuchera rubescensJack o' the rocksSaxifragaceaeNative	Hemizonia fitchii	Fitch's tarplant	Asteraceae		Native
Hesperevax sp.HesperevaxAsteraceaeNativeHeterocodon rariflorumHeterocodonCampanulaceaeNativeHeteromeles arbutifoliaToyonRosaceaeNativeHeuchera micranthaCrevice heucheraSaxifragaceaeNativeHeuchera rubescensJack o' the rocksSaxifragaceaeNative	Heracleum lanatum	Cow parsnip	Apiaceae		Native
Heterocodon rariflorumHeterocodonCampanulaceaeNativeHeteromeles arbutifoliaToyonRosaceaeNativeHeuchera micranthaCrevice heucheraSaxifragaceaeNativeHeuchera rubescensJack o' the rocksSaxifragaceaeNative	Herniaria hirsuta ssp. hirsuta	Herniaria	Caryophyllaceae	e	Exotic
Heteromeles arbutifoliaToyonRosaceaeNativeHeuchera micranthaCrevice heucheraSaxifragaceaeNativeHeuchera rubescensJack o' the rocksSaxifragaceaeNative	Hesperevax sp.	Hesperevax	Asteraceae		Native
Heuchera micranthaCrevice heucheraSaxifragaceaeNativeHeuchera rubescensJack o' the rocksSaxifragaceaeNative	Heterocodon rariflorum	Heterocodon	Campanulaceae		Native
Heuchera rubescens Jack o' the rocks Saxifragaceae Native	Heteromeles arbutifolia	Toyon	Rosaceae		Native
e	Heuchera micrantha	Crevice heuchera	Saxifragaceae		Native
Historium albiflamum White bandruged Agternage	Heuchera rubescens	Jack o' the rocks	Saxifragaceae		Native
Theractum alolytorum white nawkweed Asteraceae Native	Hieracium albiflorum	White hawkweed	Asteraceae		Native
Hieracium sp. Hawkweed Asteraceae Native	Hieracium sp.	Hawkweed	Asteraceae		Native
Hirschfeldia incana Hirschfeldia Brassicaceae Exotic	Hirschfeldia incana	Hirschfeldia	Brassicaceae		Exotic

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Name	Common Name	Family	Special Status	Origin
Holcus lanatus	Velvet grass	Poaceae		Exotic
Holodiscus microphyllus var. microphyllus	Rock spirea	Rosaceae		Native
Hordeum brachyantherum	Meadow barley	Poaceae		Native
Hordeum marinum ssp. gussoneanum	Mediterranean barley	Poaceae		Native
Horkelia fusca	Dusky horkelia	Rosaceae		Native
Horkelia tridentata ssp. tridentata	Three-toothed horkelia	Rosaceae		Native
Hydrophyllum occidentale	California waterleaf	Hydrophyllaceae		Native
Hypericum anagalloides	Tinkers penny	Hypericaceae		Native
Hypericum concinnum	Gold wire	Hypericaceae		Native
Hypericum formosum var. scouleri	Scouler's St. John's wort	Hypericaceae		Native
Hypericum perforatum	Klamath weed	Hypericaceae		Exotic
Hypochaeris glabra	Smooth cat's-ear	Asteraceae		Exotic
Hypochaeris radicata	Rough cat's-ear	Asteraceae		Exotic
Iris hartwegii	Hartweg's iris	Iridaceae		Native
Iris macrosiphon	Bowl-tubed iris	Iridaceae		Native
Isoetes orcuttii	Quillwort	Isoetaceae		Native
Ipomopsis aggregata	Scarlet gilia	Polemoniaceae		Native
Ivesia santolinoides	Mouse-tail ivesia	Rosaceae		Native
Juncus acuminatus	Taper tip rush	Juncaceae		Native
Juncus balticus	Baltic rush	Juncaceae		Native
Juncus bufonius var. bufonius	Toad rush	Juncaceae		Exotic
Juncus capitatus	Capitate rush	Juncaceae		Native
Juncus chlorocephalus	Rush	Juncaceae		Native
Juncus effusus	Soft rush	Juncaceae		Native
Juncus ensifolius	Three-stem rush	Juncaceae		Native
Juncus macrandrus	Long-anther rush	Juncaceae		Native
Juncus nevadensis	Sierra rush	Juncaceae		Native
Juncus occidentalis	Western rush	Juncaceae		Native
Juncus oxymeris	Pointed rush	Juncaceae		Native
Juncus parryi	Parry's rush	Juncaceae		Native
Juncus tenuis	Slender rush	Juncaceae		Native
Juncus xiphioides	Iris-leaf rush	Juncaceae		Native
Juniperus communis	Common juniper	Cupressaceae		Native
Juniperus occidentalis var. australis	Western juniper	Cupressaceae		Native

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Name	Common Name	Family	Special Status	Origin
Keckiella breviflora	Gaping penstemon	Scrophulariaceae		Native
Keckiella lemmonii	Lemmon penstemon	Scrophulariaceae		Native
Kelloggia galioides	Kelloggia	Rubiaceae		Native
Lactuca serriola	Prickly lettuce	Asteraceae		Exotic
Lactuca virosa	Wild lettuce	Asteraceae		Exotic
Lasthenia californica	California goldfields	Asteraceae		Native
Lathyrus jepsonii var. californicus	Jepson's pea	Fabaceae		Native
Lathyrus lanszwertii var. aridus	Nevada pea	Fabaceae		Native
Lathyrus latifolius	Perennial sweet pea	Fabaceae		Exotic
Lathyrus odoratus	Sweet pea	Fabaceae		Exotic
Lathyrus sulphureus	Snub pea	Fabaceae		Native
Lepechinia calycina	Pitcher sage	Lamiaceae		Native
Lepidium nitidum	Shining peppergrass	Brassicaceae		Native
Lessingia sp.	Lessingia	Asteraceae		Native
Leucanthemum vulgare	Ox-eye daisy	Asteraceae		Exotic
Leucothoe davisiae	Sierra laurel	Ericaceae		Native
Lewisia rediviva	Bitter root	Portulacaceae		Native
Ligusticum californica	California lovage	Apiaceae		Native
Ligusticum grayi	Gray's lovage	Apiaceae		Native
Lilium parvum	Alpine lily	Liliaceae		Native
Lilium washingtonianum	Washington lily	Liliaceae		Native
Limnanthes sp.	Meadowforam	Limnanthaceae		Native
Limosella aquatica	Northern mudwort	Scrophulariaceae		Native
Linanthus bicolor	Bicolor linanthus	Polemoniaceae		Native
Linanthus ciliatus	Whisker-brush	Polemoniaceae		Native
Linanthus montanus	Mustang-clover	Polemoniaceae		Native
Lindernia dubia	False pimpernel	Scrophulariaceae		Native
Linum bienne	Flax	Linaceae		Exotic
Linum usitatissimum	Common flax	Linaceae		Exotic
Listera convallarioides	Broad-lipped twayblade	Orchidaceae		Native
Lithocarpus densiflorus	Tanbark oak	Fagaceae		Native
Lithophragma bolanderi	Sierra star	Saxifragaceae		Native
Lithophragma affine	Woodland star	Saxifragaceae		Native
Lolium multiflorum	Annual ryegrass	Poaceae		Exotic

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Name	Common Name	Family	Special Status	Origin
Lolium perenne	Perennial ryegrass	Poaceae		Native
Lolium temulentum	Ryegrass	Poaceae		Exotic
Lomatium nevadense	Nevada lomatium	Apiaceae		Native
Lomatium utriculatum	Foothill lomatium	Apiaceae		Native
Lonicera caurina	Mountain fly honeysuckle	Caprifoliaceae		Native
Lonicera conjugialis	Double honeysuckle	Caprifoliaceae		Native
Lonicera hispidula var. vacillans	Honeysuckle	Caprifoliaceae		Native
Lonicera interrupta	Chaparral honeysuckle	Caprifoliaceae		Native
Lonicera involucrata var. involucrata	Twinberry	Caprifoliaceae		Native
Lotus argophyllus ssp. argophyllus	Silver lotus	Fabaceae		Exotic
Lotus corniculatus	Bird's-foot trefoil	Fabaceae		Exotic
Lotus crassifolius	Broad-leaved lotus	Fabaceae		Native
Lotus denticulatus	Lotus	Fabaceae		Native
Lotus humistratus	Short-pod lotus	Fabaceae		Native
Lotus incanus	Woolly lotus	Fabaceae		Native
Lotus nevadensis var. nevadensis	Sierra Nevad lotus	Fabaceae		Native
Lotus oblongifolius var. oblongifolius	Narrow-leaved lotus	Fabaceae		Native
Lotus purshianus	Spanish-clover	Fabaceae		Native
Lotus scoparius var. scoparius	California broom	Fabaceae		Native
Lupinus albifrons var. albifrons	Silver lupine	Fabaceae		Exotic
Lupinus benthamii	Spider lupine	Fabaceae		Exotic
Lupinus bicolor	Miniature lupine	Fabaceae		Native
Lupinus fulcratus	California green-stipuled lupine	Fabaceae		Native
Lupinus grayi	Gray lupine	Fabaceae		Native
Lupinus latifolius var. columbianus	Broad-leaved lupine	Fabaceae		Native
Lupinus lepidus var. lobbii	Dwarf lupine	Fabaceae		Native
Lupinus lepidus var. sellulus	Torrey's lupine	Fabaceae		Native
Lupinus microcarpus	Chick lupine	Fabaceae		Native
Lupinus nanus	Douglas's lupine	Fabaceae		Native
Lupinus polyphyllus var. burkei	Blue-pod lupine	Fabaceae		Native
Lupinus striversii	Harlequin lupine	Fabaceae		Native
Luzula comosa	Wood rush	Juncaceae		Native
Luzula parviflora	Small-flowered wood rush	Juncaceae		Native
Madia bolanderi	Bolander's madia	Asteraceae		Native

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Name	Common Name	Family Special St	atus Origin
Madia elegans	Common madia	Asteraceae	Native
Madia exigua	Pygmy madia	Asteraceae	Native
Madia gracilis	Slender tarweed	Asteraceae	Native
Madia minima	Hemizonella	Asteraceae	Native
Maianthemum racemosa	Feathery false lily-of-the-valley	Liliaceae	Native
Maianthemum stellata	Starry false lily-of-the-valley	Liliaceae	Native
Marah watsonii	Man-root	Cucurbitaceae	Native
Medicago lupulina	Burclover	Fabaceae	Native
Medicago sativa	Alfalfa	Fabaceae	Native
Melica aristata	Awned melic	Poaceae	Native
Melica californica	California melic	Poaceae	Native
Melica cf. smithii	Melic	Poaceae	Native
Melica geyerii	Geyer oniongrass	Poaceae	Native
Melica harfordii	Harford oniongrass	Poaceae	Native
Melica stricta	Nodding melic	Poaceae	Native
Melica subulata	Alaska oniongrass	Poaceae	Native
Melica torreyana	Torrey melic	Poaceae	Native
Melilotus alba	White sweet clover	Fabaceae	Native
Mentzelia albicaulis	While blazing star	Loasaceae	Native
Mentzelia dispersa	Nevada stickleaf	Loasaceae	Native
Micropus californicus var. californicus	California cottonweed	Asteraceae	Native
Microseris lacinata	Cutleaf microseris	Asteraceae	Native
Microseris nutans	Nodding microseris	Asteraceae	Native
Mimulus aurantiacus	Sticky monkeyflower	Scrophulariaceae	Native
Mimulus bicolor	Yellow and white monkeyfloser	Scrophulariaceae	Native
Mimulus breweri	Brewer's monkeyflower	Scrophulariaceae	Native
Mimulus cardinalis	Scarlet monnkeyflower	Scrophulariaceae	Native
Mimulus guttatus	Common large monkeyflower	Scrophulariaceae	Native
Mimulus lewisii	Lewis' monkeyflower	Scrophulariaceae	Native
Mimulus mephiticus	Skunky monkeyflower	Scrophulariaceae	Native
Mimulus moschatus	Musk monkeyflower	Scrophulariaceae	Native
Mimulus primuloides ssp. primuloides	Primrose monkeyflower	Scrophulariaceae	Native
Mimulus torreyi	Torrey monkeyflower	Scrophulariaceae	Native
Minuartia californica	California sandwort	Caryophyllaceae	Native

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Name	Common Name	Family	Special Status	Origin
Minuartia douglasii	Douglas's sandwort	Caryophyllaceae		Native
Mitella breweri	Bishop's-cap mitrewort	Saxifragaceae		Native
Moehringia macrophylla	Large-leaved sandwort	Caryophyllaceae		Native
Monardella lanceolata	Mustang mint	Lamiaceae		Native
Monardella odoratissma ssp. pallida	Mountain monardella	Lamiaceae		Native
Monardella sheltonii	Shelton's monardella	Lamiaceae		Native
Monardella sp.	Monardella	Lamiaceae		Native
Montia fontana	Water chickweed	Primulaceae		Native
Montia parviflora	Small-leaved montia	Primulaceae		Native
Muhlenbergia filiformis	Pull-up muhly	Poaceae		Native
Myrica hartwegii	Sierra bay	Myricaceae	ENF: W	Native
Myriophyllum sp.	Water-milfoil	Haloragaceae		?
Nama demissum	Purple mat	Hydrophyllaceae		Native
Navarretia divaricata ssp. divaricata	Mountain navarretia	Polemoniaceae		Native
Navarretia filicaulis	Navarretia	Polemoniaceae		Native
Navarretia intertexta var. intertexta	Needle-leaved navarretia	Polemoniaceae		Native
Navarretia pubescens	Downy navarrettia	Polemoniaceae		Native
Nemophila maculata	Fivespot	Hydrophyllaceae		Native
Nemophila menziesii var. integrifolia	Baby-blue-eyes	Hydrophyllaceae		Native
Nemophila parviflora var. austinae	Small-flowered nemophilla	Hydrophyllaceae		Native
Nemophila parviflora var. quercifolia	Small-flowered nemophilla	Hydrophyllaceae		Native
Nemphila menziesii var. menziesii	Baby-blue-eyes	Hydrophyllaceae		Native
Nuphar luteum ssp. polysepalum	Yellow pond lily	Nymphaeaceae		Native
Odontostomum hartwegii	Hartweg's odontostomum	Liliaceae		Native
Orobanche fasciculata	Clustered broomrape	Orobanchaceae		Native
Orthilia secunda	One-sided wintergreen	Ericaceae		Native
Osmorhiza brachypoda	California sweet-cicely	Apiaceae		Native
Osmorhiza chilensis	Mountain sweet-cicely	Apiaceae		Native
Oxypolis occidentalis	Cow-bane	Apiaceae		Native
Panicum acuminatum var. acuminatum	Panicgrass	Poaceae		Exotic
Parvisedum pumilum	Dwarf cliff sedum	Crassulaceae		Native
Pedicularis semibarbata	Dwarf lousewort	Scrophulariaceae		Native
Pellaea andromedifolia	Coffee fern	Pteridaceae		Native
Pellaea bridgesii	Bridge's cliff-brake	Pteridaceae		Native

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Pentsemon aureus Azure pentsemon Scrophulariaceae Native Penstemon dustus Hot-tock penstemon Scrophulariaceae Native Penstemon dustus Hot-tock penstemon Scrophulariaceae Native Penstemon dustus Gay penstemon Scrophulariaceae Native Penstemon rozelii Beardstongue Scrophulariaceae Native Penstemon rozelii Beardstongue Scrophulariaceae Native Penstemon rozelii Beardstongue Scrophulariaceae Native Penstemon sp. Penstemon rozelii Beardstongue Scrophulariaceae Native Penstemon rozelii Beardstongue Scrophulariaceae Native Penstemon sp. Penstemon penstemon Scrophulariaceae Native Penstemon sp. Penstemon s	Name	Common Name	Family	Special Status	Origin
Penstemon azureus Hot-rock penstemon Scrophulariaceae Native Penstemon deustus Gay penstemon Scrophulariaceae Native Penstemon newberryi var. newberryi Mountain pride Penstemon newberryi var. newberryi Beardstongue Penstemon sp. Penstemon sp. Penstemon sp. Penstemon Scrophulariaceae Penstemon sp. Penstemon Scrophulariaceae Penstemon sp. Penstemon Scrophulariaceae Penstemon Scrophulariaceae Native Penstemon sp. Penstemon Scrophulariaceae Native Peridardiaceae Penstemon Scrophulariaceae Native Peridardia cf. kelloggii Relloggii Relloggis Relloggii Relloggis Relloggii Relloggis Relloggii Relloggis Relloggii Rellogaee Relloggii Rell	Pellaea mucronata var. californica	California bird's-foot fern	Pteridaceae		Native
Penstemon deustus Gay penstemon Scrophulariaceae Native Penstemon newberryi var. newberryi Mountain pride Penstemon newberryi Mountain pride Penstemon newberryi Mountain pride Penstemon roezlii Beardstongue Penstemon Scrophulariaceae Native Penstemon sp. Penstemon Scrophulariaceae Native Peridacida cit. kelloggi Kelloggi yampa Apiaceae Native Peridarida temmonii Lemmon's yampa Apiaceae Native Peridarida sp. Peridaridia sp. Peridaridia sp. Peridaridia sp. Peridaridia sp. Petrohagia Peridaridia sp. Petrohagia Phacelia Hydrophyllaceae Phacelia hastata Phacelia Phacelia hastatata Phacelia Hydrophyllaceae Phacelia hidrophylloides Waterleaf phacelia Hydrophyllaceae Phacelia imbricata ssp. imbricata Imbricate phacelia Hydrophyllaceae Phacelia mutabilis Changeable phacelia Hydrophyllaceae Phacelia nutabilis Changeable phacelia Hydrophyllaceae Phacelia purpusii Phacelia purpusii Phacelia nutabilis Changeable phacelia Hydrophyllaceae Phacelia purpusii Phacelia purpusii Phacelia hastatai Phacelia Hydrophyllaceae Phacelia purpusii Phacelia hastatia Phacelia Hydrophyllaceae Phacelia purpusii Phacelia hydrophyllaceae Phacelia purpusii Phacelia hydrophyllaceae Phacelia purpusii Phacelia hydrophyllaceae Phacelia purpusii Phacelia purpusii Phacelia hydrophyllaceae Phacelia purpusii Phacelia purpusii Phacelia hydrophyllaceae Phacelia hydrophyllaceae Phacelia ramosissima Branching phacelia Hydrophyllaceae Phacelia ramosissima	Pellaea mucronata var. mucronata	Bird's-foot fern	Pteridaceae		Native
Penstemon laetus Penstemon newberryi var. newberryi Mountain pride Scrophulariaceae Native Penstemon weberryi var. newberryi Mountain pride Scrophulariaceae Native Penstemon sp. Penstemon Scrophulariaceae Native Penstemon sp. Penstemon Scrophulariaceae Native Penstemon sp. Penstemon Scrophulariaceae Native Perideridae Perideridae C. kelloggii Kellogg's yampa Apiaceae Perideridia lemmonii Lemmon's yampa Apiaceae Perideridia parrishii ssp. latifolia Parish's yampa Apiaceae Perideridia sp. Perideridia sp. Perideridia sp. Perideridia parrishii ssp. latifolia Parish's yampa Apiaceae Perideridia sp. Perid	Penstemon azureus	Azure penstemon	Scrophulariaceae		Native
Penstemon newberryi var. newberryi Beardstongue Scrophulariaceae Native Penstemon sp. Penstemon Scrophulariaceae Penstemon sp. Penstemon Scrophulariaceae Penstemon sp. Penstemon Scrophulariaceae Penstemon sp. Penstemon Pteridaceae Native Pentagramma triangularis Goldack fern Pteridaceae Native Peridaridia ft. kelloggi Kellogg's yampa Apiaceae Perideridia palmonii Lemmon's yampa Apiaceae Perideridia parishii ssp. latifolia Parish's yampa Apiaceae Perideridia parishii ssp. latifolia Phacelia Phacelia Caryophyllaceae Pertohagia Caryophyllaceae Phacelia hastata Phacelia Hydrophyllaceae Phacelia hastata Silverleaf phacelia Hydrophyllaceae Phacelia hydrophylloides Waterleaf phacelia Hydrophyllaceae Phacelia imbricata ssp. imbricata Imbricate phacelia Hydrophyllaceae Phacelia paludicola Phacelia paludicola Phacelia paludicola Phacelia paludicola Phacelia paludicola Phacelia paludicia Phacelia paludicia Phacelia paludicia Phacelia paludicia Phacelia paludicia Phacelia ramosissima Phacelia ramosissima Branching phacelia Hydrophyllaceae Phacelia ramosissima Branching phacelia Hydrophyllaceae Phacelia ramosissima Branching phacelia Hydrophyllaceae Phacelia ramosissima Phacelia ramosissima Branching phacelia Hydrophyllaceae Phacelia ramosissima Branching phacelia Hydrophyllaceae Phacelia ramosissima Phacelia ramosissima Branching phacelia Hydrophyllaceae Phacelia ramosissima Branching phacelia Hydrophyllac	Penstemon deustus	Hot-rock penstemon	Scrophulariaceae		Native
Penstemon roezlii Beardstongue Scrophulariaceae Native Penstemon Pteridaceae Native Perideridia cf. kelloggii Kelloggis yampa Apiaceae Native Perideridia parishii ssp. latifolia Parishi's yampa Apiaceae Native Perideridia sp. Petrohagia Caryophyllaceae Native Penacelia cicutaria Phacelia Hydrophyllaceae Native Phacelia hastata Silverleaf phacelia Hydrophyllaceae Native Phacelia hiydrophylloides Waterleaf phacelia Hydrophyllaceae Native Phacelia in hirbitata sp. imbricata Imbricate phacelia Hydrophyllaceae Native Phacelia mutabilis Changeable phacelia Hydrophyllaceae Native Phacelia purpusii Purpus' phacelia Hydrophyllaceae Native Phacelia purpusii Purpus' phacelia Hydrophyllaceae Native Phacelia purpusii Purpus' phacelia Hydrophyllaceae Native Phacelia racemosa Phacelia racemosa Phacelia racemosa Phacelia racemosa Phacelia ramosissima Branching phacelia Hydrophyllaceae Native Phacelia ramosissima Branching phacelia Hydrophyllaceae Native Phacelia ramosissima Branching phacelia Hydrophyllaceae Native Phacelia vallicola Mariposa phacelia Hydrophyllaceae Native Phalaris aquatica Branching grass Poaceae Phalaris aquatica Native	Penstemon laetus	Gay penstemon	Scrophulariaceae		Native
Penstemon sp. Pe	Penstemon newberryi var. newberryi	Mountain pride	Scrophulariaceae		Native
Pentagramma triangularis Goldack fern Pteridaceae Native Perideridia ct. kelloggis Kellogg's yampa Apiaceae Pentagridia lemmonii Lemmon's yampa Apiaceae Perideridia parishii ssp. latifolia Parish's yampa Apiaceae Petrohagia dubia Petrohagia Apiaceae Petrohagia Apiaceae Petrohagia dubia Petrohagia Apiaceae Phacelia phaceia Phacelia Hydrophyllaceae Phacelia hastata Phacelia hastata Phacelia hastata Silverleaf phacelia Hydrophyllaceae Phacelia phaceia Hydrophyllaceae Phacelia imbricata ssp. imbricata Imbricate phacelia Hydrophyllaceae Phacelia mutabilis Changeable phacelia Hydrophyllaceae Phacelia purpusii Phacelia purpusii Purpus' phacelia Hydrophyllaceae Phacelia quickii Quick's phacelia Hydrophyllaceae Phacelia racemosa Phacelia racemosa Phacelia racemosa Phacelia stebbinsii Stebbin's phacelia Hydrophyllaceae Fed: SC, CNPS: 1B; ENF: S Native Phalacroseris bolanderi Native Phalacroseris bolanderi Harding grass Poaceae Exotic Pholox diffusa Polemoniaceae Native Polemoniaceae Native Polemoniaceae Native Polemoniaceae Native Polemoniaceae Native Polemoniaceae Native Phacelia racemosa Phalacliphus lewisii Mockorange Philadelphus lewisii Native Polemoniaceae Native Polemoniaceae Native Polemoniaceae Native Native Polemoniaceae Native Polem	Penstemon roezlii	Beardstongue	Scrophulariaceae		Native
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Perideridia parishii ssp. latifolia Parish's yampa Apiaceae Native Perideridia sp. Petrohagia dubia Petrohagia dubia Phacelia Pha	Perideridia cf. kelloggii	Kellogg's yampa	Apiaceae		Native
Perideridia sp. Yampa Apiaceae Native Petrohagia dubia Petrohagia Caryophyllaceae Exotic Phacelia cicutaria Phacelia Phacelia Hydrophyllaceae Native Phacelia hastata Silverleaf phacelia Hydrophyllaceae Native Phacelia heterophylla ssp. virgata Virgate phacelia Hydrophyllaceae Native Phacelia hydrophylloides Waterleaf phacelia Hydrophyllaceae Native Phacelia imbricata ssp. imbricata Imbricate phacelia Hydrophyllaceae Native Phacelia mutabilis Changeable phacelia Hydrophyllaceae Native Phacelia paludicola Phacelia Hydrophyllaceae Native Phacelia purpusii Purpusi Phacelia Hydrophyllaceae Native Phacelia quickii Quick's phacelia Hydrophyllaceae Native Phacelia racemosa Racemose phacelia Hydrophyllaceae Native Phacelia racemosai Racemose phacelia Hydrophyllaceae Native Phacelia racemosisima Branching phacelia Hydrophyllaceae Native Phacelia racemosa Racemose phacelia Hydrophyllaceae Native Phacelia racemosa Hydrophyllaceae Hydrophyllaceae Native Phacelia racemosi Hydrophyllaceae Hydrophyllaceae Native Phacelia racemosi Hydrophyllaceae Hydrophyllaceae Hydrophyllaceae Native Phacelia vallicola Mariposa phacelia Hydrophyllaceae ENF: W Native Phalacroseris bolanderi Bolander's dandelion Hydrophyllaceae Exotic Phalacroseris bolanderi Harding grass Poaceae Exotic Phalacroseris valitica Harding grass Poaceae Exotic Phalacroseris Spreading phlox Polemoniaceae Native Phalacroserilis Slender phlox Polemoniaceae Native	Perideridia lemmonii	Lemmon's yampa	Apiaceae		Native
Perideridia sp. Yampa Apiaceae Native Petrohagia dubia Petrohagia (Caryophyllaceae Exotic Phacelia cicutaria Phacelia Phacelia Hydrophyllaceae Native Phacelia hastata Silverleaf phacelia Hydrophyllaceae Native Phacelia heterophylla ssp. virgata Virgate phacelia Hydrophyllaceae Native Phacelia hydrophylloides Waterleaf phacelia Hydrophyllaceae Native Phacelia imbricata ssp. imbricata Imbricate phacelia Hydrophyllaceae Native Phacelia mutabilis Changeable phacelia Hydrophyllaceae Native Phacelia paludicola Phacelia Hydrophyllaceae Native Phacelia purpusii Purpusii Purpusi Phacelia Hydrophyllaceae Native Phacelia quickii Quick's phacelia Hydrophyllaceae Native Phacelia racemosa Racemose phacelia Hydrophyllaceae Native Phacelia ramosissima Branching phacelia Hydrophyllaceae Native Phacelia ramosissima Branching phacelia Hydrophyllaceae Native Phacelia vallicola Hydrophyllaceae Native Phacelia vallicola Hydrophyllaceae Native Phacelia vallicola Hydrophyllaceae Hydrophyllaceae Native Phacelia vallicola Hydrophyllaceae Hydrophyllaceae Stebbin's phacelia Hydrophyllaceae Hydrophyllaceae Phacelia vallicola Hydrophyllaceae Hydrophyllaceae Exotic Phalacroseris bolanderi Bolander's dandelion Hydrophyllaceae Exotic Phalacroseris bolanderi Harding grass Poaceae Exotic Phalaclelia vallicola Harding grass Poaceae Exotic Phalaclelia vallicola Spreading phlox Polemoniaceae Native Phalacroserilis Slender phlox Polemoniaceae Native	Perideridia parishii ssp. latifolia	Parish's yampa	Apiaceae		Native
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Phacelia heterophylla ssp. virgata Virgate phacelia Hydrophyllaceae Phacelia hydrophylloides Waterleaf phacelia Hydrophyllaceae Phacelia imbricata ssp. imbricata Imbricate phacelia Hydrophyllaceae Phacelia imbricata ssp. imbricata Changeable phacelia Hydrophyllaceae Phacelia paludicola Phacelia Phacelia prupusii Purpus' phacelia Phacelia Hydrophyllaceae Phacelia quickii Quick's phacelia Phacelia Hydrophyllaceae Phacelia racemosa Racemose phacelia Hydrophyllaceae Phacelia racemosa Racemose phacelia Hydrophyllaceae Phacelia ratemosissima Branching phacelia Hydrophyllaceae Phacelia stebbinsii Stebbin's phacelia Hydrophyllaceae Fed: SC; CNPS: 1B; ENF: S Native Phalacroseris bolanderi Bolander's dandelion Hydrophyllaceae Fed: SC; CNPS: 1B; ENF: S Native Phalacroseris bolanderi Bolander's dandelion Hydrophyllaceae ENF: W Native Phalacroseris bolanderi Bolander's dandelion Hydrophyllaceae Philadelphus lewisii Mockorange Philadelphus lewisii Spreading phlox Spreading phlox Polemoniaceae Native Pholox gracilis Native Polemoniaceae Native Native Polemoniaceae Native Native Pholox gracilis	Phacelia cicutaria		Hydrophyllaceae		Native
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Phacelia mutabilisChangeable phaceliaHydrophyllaceaeNativePhacelia paludicolaPhaceliaHydrophyllaceaeNativePhacelia purpusiiPurpus' phaceliaHydrophyllaceaeNativePhacelia quickiiQuick's phaceliaHydrophyllaceaeNativePhacelia racemosaRacemose phaceliaHydrophyllaceaeNativePhacelia ramosissimaBranching phaceliaHydrophyllaceaeNativePhacelia stebbinsiiStebbin's phaceliaHydrophyllaceaeFed: SC; CNPS: 1B; ENF: SNativePhacelia vallicolaMariposa phaceliaHydrophyllaceaeENF: WNativePhalacroseris bolanderiBolander's dandelionHydrophyllaceaeENF: WNativePhalaris aquaticaHarding grassPoaceaeExoticPhiladelphus lewisiiMockorangePhiladelphaceaeNativePhleum pratenseTimothy grassPoaceaeExoticPhlox diffusaSpreading phloxPolemoniaceaeNativePhlox gracilisSlender phloxPolemoniaceaeNative	Phacelia hydrophylloides	Waterleaf phacelia	Hydrophyllaceae		Native
Phacelia paludicola Phacelia P	Phacelia imbricata ssp. imbricata	Imbricate phacelia	Hydrophyllaceae		Native
Phacelia purpusii Phacelia quickii Quick's phacelia Phacelia racemosa Phacelia racemosa Racemose phacelia Phacelia ramosissima Phacelia stebbinsii Phacelia stebbinsii Phacelia vallicola Phalacroseris bolanderi Phalacroseris bolanderi Phalacroseris polanderi Phalacroseri	Phacelia mutabilis	Changeable phacelia	Hydrophyllaceae		Native
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Phacelia stebbinsiiStebbin's phaceliaHydrophyllaceaeFed: SC; CNPS: 1B; ENF: SNativePhacelia vallicolaMariposa phaceliaHydrophyllaceaeENF: WNativePhalacroseris bolanderiBolander's dandelionHydrophyllaceaeNativePhalaris aquaticaHarding grassPoaceaeExoticPhiladelphus lewisiiMockorangePhiladelphaceaeNativePhleum pratenseTimothy grassPoaceaeExoticPhlox diffusaSpreading phloxPolemoniaceaeNativePhlox gracilisSlender phloxPolemoniaceaeNative	Phacelia racemosa	Racemose phacelia	Hydrophyllaceae		Native
Phacelia vallicolaMariposa phaceliaHydrophyllaceaeENF: WNativePhalacroseris bolanderiBolander's dandelionHydrophyllaceaeNativePhalaris aquaticaHarding grassPoaceaeExoticPhiladelphus lewisiiMockorangePhiladelphaceaeNativePhleum pratenseTimothy grassPoaceaeExoticPhlox diffusaSpreading phloxPolemoniaceaeNativePhlox gracilisSlender phloxPolemoniaceaeNative	Phacelia ramosissima	Branching phacelia	Hydrophyllaceae		Native
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Phalaris aquaticaHarding grassPoaceaeExoticPhiladelphus lewisiiMockorangePhiladelphaceaeNativePhleum pratenseTimothy grassPoaceaeExoticPhlox diffusaSpreading phloxPolemoniaceaeNativePhlox gracilisSlender phloxPolemoniaceaeNative	Phacelia vallicola	Mariposa phacelia	Hydrophyllaceae	ENF: W	Native
Philadelphus lewisiiMockorangePhiladelphaceaeNativePhleum pratenseTimothy grassPoaceaeExoticPhlox diffusaSpreading phloxPolemoniaceaeNativePhlox gracilisSlender phloxPolemoniaceaeNative	Phalacroseris bolanderi	Bolander's dandelion	Hydrophyllaceae		Native
Phleum pratenseTimothy grassPoaceaeExoticPhlox diffusaSpreading phloxPolemoniaceaeNativePhlox gracilisSlender phloxPolemoniaceaeNative	Phalaris aquatica	Harding grass	Poaceae		Exotic
Phlox diffusaSpreading phloxPolemoniaceaeNativePhlox gracilisSlender phloxPolemoniaceaeNative	Philadelphus lewisii	Mockorange	Philadelphaceae		Native
Phlox diffusaSpreading phloxPolemoniaceaeNativePhlox gracilisSlender phloxPolemoniaceaeNative	Phleum pratense	Timothy grass	Poaceae		Exotic
·	Phlox diffusa	Spreading phlox	Polemoniaceae		Native
Phlox speciosa ssp. occidentalis Western showy phlox Polemoniaceae Native	Phlox gracilis	Slender phlox	Polemoniaceae		Native
	Phlox speciosa ssp. occidentalis	Western showy phlox	Polemoniaceae		Native

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Physocarpus capitatus Ninebark Rosaceae Pinus contorta var. murrayana Lodgepole pine Pinaceae Pinus felitis Limber pine Pinaceae Pinus jeffreyi Jeffrey pine Pinaceae Pinus lambertiana Sugar pine Pinaceae Pinus monticola Western white pine Pinaceae Pinus ponderosa Pondersoa pine, yellow pine Pinaceae Pinus sabiniana Gray or foothill pine Pinaceae Piperia ef. elongata Grovential pine Pinaceae Piperia sp. Piperia norchid Orchidaceae Piperia pria transversa Transverse rein orchid Orchidaceae Piperia la transversa Transverse rein orchid Orchidaceae Piperia la transversa Alaska rein orchid Orchidaceae Piperia la transverse rein orchid Orchidaceae Plagiobothrys nothofulvus Plagiobothrys nothofulvus Common popcorn flower Boraginaceae Platantago erecta Plantaginaceae Plantaginaceae Platantago anceolata English plantain Plantaginaceae		Common Name F	amily Special Status	Origin
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	tensis	Kentucky bluegrass Pe	oaceae	Native
Poa secunda One-sided bluegrass Poaceae	unda	One-sided bluegrass Pe	oaceae	Native
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	=	Milkwort	olygalaceae	Native
Polygala cornuta var. cornuta Milkwort Polygalaceae	a cornuta var. cornuta	Milkwort	olygalaceae	Native
Polygonum bistortoides Snakeweed Polygonaceae	um bistortoides	Snakeweed Po	olygonaceae	Native

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Name	Common Name	Family	Special Status	Origin
Polygonum douglasii ssp. johnstonii	Douglas' knotweed	Polygonaceae		Native
Polygonum minimum	Leafy dwarf knotweed	Polygonaceae		Native
Polygonum parryi	Parry's knotweed	Polygonaceae		Native
Polygonum phytolaccifolium	Alpine knotweed	Polygonaceae		Native
Polygonum polygaloides ssp. kelloggii	Kellogg's knotweed	Polygonaceae		Native
Polygonum sp.	Knotweed	Polygonaceae		Native
Polygpogon maritimus	Mediterranean beard grass	Poaceae		Exotic
Polypodium glycyrrhiza	Licorise fern	Polypodiaceae		Native
Polypogon interruptus	Beard grass	Poaceae		Exotic
Polypogon monspeliensis	Rabbits foot-grass	Poaceae		Exotic
Polystichum californicum	California sword fern	Dryopteridaceae		Native
Polystichum imbricans	Sword fern	Dryopteridaceae		Native
Populus balsamifera var. trichocarpa	Black cottonwood	Salicaceae		Native
Populus fremontii	Fremont's cottonwood	Salicaceae		Native
Populus tremuloides	Aspen	Salicaceae		Native
Potamogeton natans	Pondweed	Potamogetonaceae		Native
Potentilla glandulosa	Sticky cinquefoil	Rosaceae		Native
Potentilla gracilis	Slender cinquefoil	Rosaceae		Native
Potentilla grayi	Gray's cinquefiol	Rosaceae		Native
Prunella vulgaris var. lanceolata	Self-heal	Lamiaceae		Native
Prunus emarginata	Bitter cherry	Rosaceae		Native
Prunus subcordata	Sierra plum	Rosaceae		Native
Prunus virginiana var. demissa	Western choke cherry	Rosaceae		Native
Pseudotsuga menziesii	Douglas fir	Pinaceae		Native
Psilocarphus tenellus var. tenellus	Slender woolly-heads	Asteraceae		Native
Pteridium aquilinum var. pubescens	Bracken fern	Pteridaceae		Native
Pterospora andromedea	Pinedrops	Ericaceae		Native
Pterostegia drymarioides	Pterostegia	Polygonaceae		Native
Puccinellia nuttaliana	Nuttall's alkali grass	Poaceae		Native
Pyrola picta	White-veined wintergreen	Pyrolaceae		Native
Quercus berberidifolia	Scrub oak	Fagaceae		Native
Quercus chrysolepsis	Canyon oak	Fagaceae		Native
Quercus kelloggii	Black oak	Fagaceae		Native
Quercus vaccinifolia	Huckleberry oak	Fagaceae		Native

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Name	Common Name	Family	Special Status	Origin
Quercus wislizenii	Interior live oak	Fagaceae		Native
Ranunculus alisimifolius var. alismellus	Water plantain buttercup	Ranunculaceae		Native
Ranunculus aquatilis	Water buttercup	Ranunculaceae		Native
Ranunculus californicus	California buttercup	Ranunculaceae		Native
Ranunculus flammulina	Creeping buttercup	Ranunculaceae		Native
Ranunculus hebecarpus	Downy buttercup	Ranunculaceae		Native
Ranunculus occidentalis	Western buttercup	Ranunculaceae		Native
Ranunculus repens	Creeping buttercup	Ranunculaceae		Exotic
Raphanus sativus	Wild radish	Brassicaceae		Exotic
Rhamnus ilicifolius	Hollyleaf coffeeberry	Rhamnaceae		Native
Rhamnus purshiana	Cascara	Rhamnaceae		Native
Rhamnus rubra	Sierra coffeeberry	Rhamnaceae		Native
Rhamnus tomentella	Chaparral coffeeberry	Rhamnaceae		Native
Rhododendron occidentale	Western azalea	Ericaceae		Native
Ribes cf. lobbii	Gummy gooseberry	Grossulariaceae		Native
Ribes nevadense	Sierra currant	Grossulariaceae		Native
Ribes roezlii	Sierra gooseberry	Grossulariaceae		Native
Ribes sanguineum	Red flowering currant	Grossulariaceae		Native
Ribes viscosissimum	Sticky currant	Grossulariaceae		Native
Rorippa curvisiliqua	Yellow cress	Brassicaceae		Native
Rorippa nasturtium-aquaticum	Water-cress	Brassicaceae		Native
Rosa bridgesii	Rose	Rosaceae		Native
Rosa gymnocarpa	Wood rose	Rosaceae		Native
Rosa woodsii	Interior rose	Rosaceae		Native
Rubus discolor	Himalayan blackberry	Rosaceae		Exotic
Rubus glaucifolius	Glaucus-leaved blackberry	Rosaceae		Native
Rubus laciniatus	Cutleaf blackberry	Rosaceae		Exotic
Rubus leucodermis	Western raspberry	Rosaceae		Native
Rubus parviflorus	Thimbleberry	Rosaceae		Native
Rubus ursinus	California blackberry	Rosaceae		Native
Rudbeckia occidentalis var. occidentalis	Western cone-flower	Asteraceae		Native
Rumex acetosella	Sheep sorrel	Polygonaceae		Exotic
Rumex crispus	Curly dock	Polygonaceae		Exotic
Rumex salicifolius	Willow dock	Polygonaceae		Native

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Name	Common Name	Family	Special Status	Origin
Sagina saginoides	Pearlwort	Caryophyllaceae		Native
Salix exigua	Narrowleaf willow	Salicaceae		Native
Salix geyeriana	Geyer's willow	Salicaceae		Native
Salix laevigata	Red willow	Salicaceae		Native
Salix lasiolepis	Arrow willow	Salicaceae		Native
Salix lemmonii	Lemmon's willow	Salicaceae		Native
Salix lucida ssp. lasiandra	Shining willow	Salicaceae		Native
Salix scouleriana	Scouler willow	Salicaceae		Native
Salsola tragus	Russian thistle	Chenopodiaceae		Native
Salvia sonomensis	Sonoma sage	Lamiaceae		Native
Sambucus mexicana	Blue elderberry	Caprifoliaceae		Native
Sanicula bipinnata	Poison sanicle	Apiaceae		Native
Sanicula bipinnatifida	Purple sanicle	Apiaceae		Native
Sanicula crassicaulis	Pacific snakeroot	Apiaceae		Native
Sanicula graveolens	Sierra sanicle	Apiaceae		Native
Sanicula tuberosa	Tuberous sanicle	Apiaceae		Native
Sarcodes sanguinea	Snow plant	Ericaceae		Native
Saxifraga aprica	Sierra saxifrage	Saxifragaceae		Native
Saxifraga californica	California saxifrage	Saxifragaceae		Native
Saxifraga mertensiana	Wood saxifrage	Saxifragaceae		Native
Saxifraga oregana	Bog saxifrage	Saxifragaceae		Native
Scandix pecten-veneris	Shepherd's needle	Apiaceae		Exotic
Scirpus clementis	Clement's bulrush	Cyperaceae		Native
Scirpus congdonii	Congdon's bulrush	Cyperaceae		Native
Scirpus microcarpus	Small-fruited bulrush	Cyperaceae		Native
Scleranthus annus ssp. annus	Knawel	Caryophyllaceae		Exotic
Scrophularia desertorum	Figwort	Scrophulariaceae		Native
Scutellaria anthirrinoides	Snapdragon skullcap	Lamiaceae		Native
Scutellaria californica	California skullcap	Lamiaceae		Native
Scutellaria sp.	Skullcap	Lamiaceae		Native
Sedum obtusatum ssp. obtusatum	Sierra stonecrop	Crassulaceae		Native
Sedum spathulifolium	Pacific stonecrop	Crassulaceae		Native
Sedum stenopetalum	Star-fruited stonecrop	Crassulaceae		Native
Selaginella sp.	Spike moss	Selaginellaceae		Native

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Semecio aronicoides Moolly butterweed Asteraceae Native Semecio clarkianus Butterweed Asteraceae Native Semecio integerrimus vari. exaltatus Butterweed Asteraceae Native Semecio integerrimus vari. exaltatus Fomecio longerrimus vari. exaltatus Fo	Name	Common Name	Family	Special Status	Origin
Senecio canus Buterweed Asteraceae Native Senecio iclarkianus Buterweed Asteraceae Native Senecio ingerrinus var. exaltatus Tower butterweed Asteraceae Fed: T; CA: R; CNPS: 1B; ENF: S Native Senecio lupneae Layne's ragwort Asteraceae Fed: T; CA: R; CNPS: 1B; ENF: S Native Senecio ruingularis Arrowhead butterweed Asteraceae Fed: T; CA: R; CNPS: 1B; ENF: S Native Senecio ruingularis Common groundsel Asteraceae Exotic Sequeia giganteum Giant sequoia Taxodiaceae Native Sidalcea glaucescens Glaucous sidalcea Malvaceae Sidalcea glaucescens Glaucous sidalcea Malvaceae Sidalcea mahvaeflora Checker mallow Malvaceae Sidalcea mahvaeflora Checker mallow Malvaceae Silene californica California Indian pink Caryophyllaceae Silene douglasii Douglas' campion Caryophyllaceae Silene douglasii Douglas' campion Caryophyllaceae Silene douglasii Douglas' campion Caryophyllaceae Silene mannii Lemmon's campion Caryophyllaceae Silene mannii Silene mannii Silene mannii Lemmon's campion Caryophyllaceae Silene mannii Silen	Selaginella wallacei	Alpine selaginella	Selaginellaceae		Native
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Senecio integerrimus var. exaltatus Layne's ragwort Asteraceae Layne's ragwort Layne's ragwort Layne's part of the control	Senecio canus	Woolly butterweed	Asteraceae		Native
Senecio laymeae Layne's ragwort Asteraceae Fed: T; CA: R; CNPS: 1B; ENF:S Native Senecio triangularis Arrowhead butterweed Asteraceae Senecio valgaris Common groundsel Asteraceae Exotic Sequoia giganteum Giant sequoia Taxodiaceae Native Sidalcea glaucescens Glaucous sidalcea Malvaceae Native Sidalcea glaucescens Glaucous sidalcea Malvaceae Native Sidalcea marlvægi's sidalcea malvaeflora Checker mallow Malvaceae Native Sidalcea reptans Creeping checker Malvaceae Native Sidalcea reptans Creeping checker Malvaceae Native Sidene douglasii Douglas' campion Caryophyllaceae Native Sidene douglasii Douglas' campion Caryophyllaceae Native Sidene douglasii Douglas' campion Caryophyllaceae Exotic Signem marianum Lemmonii Caryophyllaceae Exotic Sisymbrium altissimum Milk thistle Asteraceae Exotic Sisymbrium altissimum Tumbling mustard Brassicaceae Exotic Sisymbrium alficianel Blue-eyed grass Iridaceae Native Sisyrinchium elmeri Elmer's yellow-eyed grass Iridaceae Native Sisyrinchium elmeri Elmer's yellow-eyed grass Iridaceae Native Sisyrinchium dahoense var. idahoense Mateve Water-parsnip Apiaceae Native Sisyrinchium dahoense var. idahoense Racemose false Solomon's-seal Liliaceae Native Sindiacian racemosa Racemose false Solomon's-seal Liliaceae Native Sindiacian racemosa Macemosa Native Nightshade Solanum xanti Solideaceae Prickly sow thistle Asteraceae Exotic Sonchus olevaceus Common soliva Asteraceae Exotic Sonchus olevaceus Common soliva Asteraceae Exotic Sonchus olevaceus California mountain-ash Rosaceae Solideare Solarum Solarum sounti Solaeraceus California mountain-ash Rosaceae Solaece Solaece Solaece Solaeceae Solaec	Senecio clarkianus	Butterweed	Asteraceae		Native
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Sium suaveWater-parsnipApiaceaeNativeSmilacina racemosaRacemose false Solomon's-sealLiliaceaeNativeSmilacina stellataPanicled false Solomon's-sealLiliaceaeNativeSolanum xantiNightshadeSolanaceaeNativeSolidago canadensis ssp. elongataMeadow goldenrodAsteraceaeNativeSolidago sp.GoldenrodAsteraceaeNativeSoliva sessilisCommon solivaAsteraceaeExoticSonchus asperPrickly sow thistleAsteraceaeExoticSonchus oleraceusCommon sow thistleAsteraceaeExoticSorbus californicaCalifornia mountain-ashRosaceaeNative	Sisyrinchium elmeri	Elmer's yellow-eyed grass	Iridaceae		Native
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Soliva sessilisCommon solivaAsteraceaeExoticSonchus asperPrickly sow thistleAsteraceaeExoticSonchus oleraceusCommon sow thistleAsteraceaeExoticSorbus californicaCalifornia mountain-ashRosaceaeNative	Solidago canadensis ssp. elongata	Meadow goldenrod	Asteraceae		Native
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Sonchus oleraceusCommon sow thistleAsteraceaeExoticSorbus californicaCalifornia mountain-ashRosaceaeNative	Soliva sessilis	Common soliva	Asteraceae		Exotic
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J and the state of	Sonchus oleraceus	Common sow thistle	Asteraceae		Exotic
Sorbus sp. Mountain-ash Rosaceae Native	Sorbus californica	California mountain-ash	Rosaceae		Native
	Sorbus sp.	Mountain-ash	Rosaceae		Native

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Name	Common Name	Family	Special Status	Origin
Sparganium angustifolium	Bur-reed	Typhaceae		Native
Spergularia rubra	Purple sand-spurrey	Caryophyllaceae		Native
Spiraea densiflora	Mountain spirea	Rosaceae		Native
Spiranthes porrifolia	Western lady's-tresses	Orchidaceae		Native
Stachys ajugoides	Hedge nettle	Lamiaceae		Native
Stephanomeria lactucina	Large-flowered stephanomeria	Asteraceae		Native
Streptanthus polygaloides	Milkwort jewel-flower	Brassicaceae		Native
Streptanthus tortuosus var. tortuosus	Mountain jewel-flower	Brassicaceae		Native
Streptopus amplexifolius var. americanus	Twisted stalk	Liliaceae		Native
Swertia radiata	Giant frasera	Gentianaceae		Native
Symphoricarpos albus var. laevigatus	Common snowberry	Caprifoliaceae		Native
Symphoricarpos mollis	Creeping snowberry	Caprifoliaceae		Native
Taeniatherum caput-medusae	Medusa head grass	Poaceae		Exotic
Taraxacum officinale	Dandelion	Asteraceae		Exotic
Tauschia hartwegii	Hartweg's tauchia	Apiaceae		Native
Taxus brevifolia	Pacific yew	Taxaceae	ENF: W	Native
Tellima grandiflora	Fringe-cups	Saxifragaceae		Native
Thalictrum fendleri var. fenderli	Fendler's meadow-rue	Ranunculaceae		Native
Thysanocarpus curvipes	Fringe-pod	Brassicaceae		Native
Tolmeia menziesii	Piggy-back-plant	Saxifragaceae		Native
Torilis arvensis	Hedge parsley	Apiaceae		Exotic
Torreya californica	California nutmeg	Taxaceae		Native
Torreyochloa pallida var. pauciflora	California alkali grass	Poaceae		Native
Toxicodendron diversilobum	Poison oak	Anacardiaceae		Native
Tragopogon dubius	Yellow salsify	Asteraceae		Exotic
Tragopogon porrifolia	Salsify	Asteraceae		Exotic
Trichostema cf. lanceolatum	Blue-curls	Lamiaceae		Native
Trientalis latifolia	Star-flower	Primulaceae		Native
Trifolium albopurpureum	Rancheria clover	Fabaceae		Native
Trifolium cf. longipes ?	Long-stalked clover	Fabaceae		Native
Trifolium ciliolatum	Tree clover	Fabaceae		Native
Trifolium dubium	Shamrock	Fabaceae		Exotic
Trifolium glomeratum	Clover	Fabaceae		Exotic
Trifolium hirtum	Rose clover	Fabaceae		Exotic

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Name	Common Name	Family	Special Status	Origin
Trifolium incarnatum	Crimson clover	Fabaceae		Exotic
Trifolium microcephalum	Maiden clover	Fabaceae		Native
Trifolium obtusiflorum	Creek clover	Fabaceae		Native
Trifolium pratense	Red clover	Fabaceae		Exotic
Trifolium repens	White lawn clover	Fabaceae		Exotic
Trifolium subterraneum	Subterranean clover	Fabaceae		Exotic
Trifolium variegatum	White-topped clover	Fabaceae		Native
Trifolium wildenovii	Tomcat clover	Fabaceae		Native
Trifolium wormskjoldii	Cow clover	Fabaceae		Native
Triphysaria eriantha	Yellow Johnnytuck	Scrophulariacea	e	Native
Trisetum canescens	Nodding trisetum	Poaceae		Native
Trisetum spicatum	Spike trisetum	Poaceae		Native
Triteleia hyacinthina	White brodiaea	Liliaceae		Native
Triteleia ixioides ssp. anilina	Golden brodiaea	Liliaceae		Native
Triteleia ixioides ssp. scabra	Golden brodiaea	Liliaceae		Native
Triteleia laxa	Ithuriel's spear	Liliaceae		Native
Triteleia montana	Mountian triteleia	Liliaceae		Native
Tsuga mertensiana	Hemlock	Pinaceae		Native
Typha domingensis	Southern cattail	Typhaceae		Native
Typha sp.	Cattail	Typhaceae		Native
Umbellularia californica	California bay laurel	Lauraceae		Native
Uropappus lindlyii	Silverpuffs	Asteraceae		Native
Vaccinium parvifolium	Red huckleberry	Ericaceae		Native
Vaccinium scoparium	Littleleaf huckleberry	Ericaceae		Native
Vaccinium uliginosum	Western blueberry	Ericaceae		Native
Veratrum californicum var. californicum	Corn-lily	Liliaceae		Native
Verbascum blattaria	Moth mullein	Scrophulariacea	e	Exotic
Verbascum thaspsus	Common mullein	Scrophulariacea	e	Exotic
Verbena bonariensis	Clusterflower verbena	Verbenaceae		Exotic
Veronica americana	Brooklime	Scrophulariacea	e	Native
Veronica anagallis-aquatica	Water speedwell	Scrophulariacea	e	Native
Veronica scutellata	Marsh speedwell	Scrophulariacea	e	Native
Veronica serpyllifolia ssp. humifusa	Thyme-leaved speedwell	Scrophulariacea	e	Native
Veronica sp.	Veronica	Scrophulariacea	e	Native

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Name	Common Name	Family	Special Status	Origin
Vicia hirsuta	Vetch	Fabaceae		Exotic
Vicia sativa	Spring vetch	Fabaceae		Exotic
Vicia sativa ssp. nigra	Narrowleaf vetch	Fabaceae		Exotic
Vicia sp.	Vetch	Fabaceae		Native
Vicia villosa ssp. varia	Winter vetch	Fabaceae		Exotic
Viola adunca	Western dog violet	Violaceae		Native
Viola glabella	Smooth yellow violet	Violaceae		Native
Viola lobata var. lobata	Pine violet	Violaceae		Native
Viola macloskeyi	Macloskey's violet	Violaceae		Native
Viola purpurea ssp. purpurea	Mountian violet	Violaceae		Native
Viola sheltonii	Shelton's violet	Violaceae		Native
Viola tomentosa	Woolly violet	Violaceae	X	Native
Vitis californica	California grape	Vitaceae		Native
Vulpia microstachys	Vulpia	Poaceae		Exotic
Vulpia myuros	Foxtail fescue	Poaceae		Exotic
Whitneya dealbata	Whitneya	Asteraceae		Native
Woodwardia fimbriata	Chain fern	Blechnaceae		Native
Wyethia angustifolia	Narrowleaf mule ears	Asteraceae		Native
Wyethia glabra	Green mule ears	Asteraceae		Native
Wyethia helenioides	Gray mule ears	Asteraceae		Native
Wyethia mollis	Mountain mule ears	Asteraceae		Native
Wyethia reticulata	El Dorado County mule ears	Asteraceae	Fed: SC; CNPS: 1B	Native
Zigadenus venenosus var. venenosus	Death camas	Liliaceae		Native

APPENDIX C

NOXIOUS WEEDS AND SPECIAL STATUS PLANTS (NE, SE, SW, WW)