

Southern Cascades Ecoregion Vegetation Sampling Project



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CONTENTS

Abstract.....	iii
Acknowledgements	iii
Introduction	1
Purpose	1
Study Area Location and environmental setting.....	1
Scope of Work	3
Methods	4
Field Sampling.....	4
Sample Allocation	4
Data Form and Field Map Development	6
Field Sampling Plan	7
Data Collection.....	7
Plant Identification and Voucher Specimens.....	10
Data processing.....	10
Results	11
Sampling.....	11
Sample Collection	11
Floristics.....	12
Literature Cited.....	14

FIGURES

Figure 1. Regional Vicinity Map	2
Figure 2. Field Survey Locations Map.....	8

APPENDICES

Appendix A: Protocol for CDFW-CNPS Combined Rapid Assessment and Relevé Sampling Form

Appendix B: List of Targeted and Sampled Alliances and Associations

Appendix C: List of Voucher Specimens Submitted to Herbarium

Appendix D: List of All Plant Taxa Identified within Sampled Plots

ABSTRACT

The California Department of Fish and Wildlife's Vegetation Classification and Mapping Program contracted Vollmar Natural Lands Consulting and Siskiyou Bio Surveys to conduct vegetation sampling across the Southern Cascades Ecoregion covering more than 4.1 million acres. The purpose of the surveys was to provide floristic and environmental data to support the Survey of California Vegetation and ultimately be used to develop a hierarchical classification of plant communities and will in turn serve as the foundation for a fine-scale vegetation map. The project team was tasked with sampling a minimum of 1,600 vegetation plots, including at least 320 within herbaceous communities such as grasslands and wetlands, to be sampled as relevés. The scope of work also included the collection of at least 200 voucher specimens to be submitted to an herbarium. The field surveys were conducted during the late spring, summer, and fall seasons of 2023, 2024, and 2025. Using the CDFW- CNPS Protocol for Combined Vegetation Rapid Assessment and Relevé Sampling, the project team sampled 1832 plots, consisting of 619 relevés and 1213 rapid assessments. Additionally, 1059 reconnaissance points were collected, which provide more generalized vegetation data to help guide future fine-scale mapping. Based on preliminary field-based assessment, the surveyed plots represent 225 vegetation alliances. A total of 1742 vascular plant taxa were documented during these surveys and 260 voucher specimens were submitted to the Jepson Herbarium. The field data was processed and entered into a Microsoft Access database and spatial geodatabases following the Survey of California standards.

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Field and Office Staff:

Vollmar Natural Lands Consulting staff included Jake Schweitzer, John Vollmar, and Amy Merrill, all Senior Botanists and crew leads. Mr. Schweitzer also served as the project director. The Senior Botanists were assisted by Staff Botanists Jacob Edwards, Anton Bokisch, Alistair Dobson, Giselle Vandrick, Henry Hwang, Gabriel Saron, Hannah Johansson, and Nicholas Vollmar. These core staff members were joined by the following subconsultants: Dominique DiPaolo, Neal Kramer, Julie Kierstead, and Vanessa Stevens, who also served as Senior Botanists and crew leads.

Siskiyou BioSurvey staff included Gretchen Vos, Julianne Spelletich, and Greg Carey, all Senior Botanists and crew leads.

Landowner Access Contacts:

The California Department of Fish and Wildlife (CDFW) facilitated access to most public lands within the Southern Cascades Ecoregion.

The project team is grateful to all the generous private landowners who authorized surveys of their properties. These include Collins Pine Company; Fall River Resource Conservation District; FWS Forestry; Hearst Forests, LLC; Wyntoon Timberlands, LLC; Hugh McGee IV; Jo Cunningham and Patsy Korhuniak of Baccala Ranch; John and Susan Brennan; Maidu Summit Consortium; Miller Ranch Properties, LLC; Pacific Gas and Electric Company; Scott Carnegie and Peter Stent of the Thousand Spring Ranch; Shasta Land Trust; Sierra Pacific Industries; Siskiyou Land Trust; Soda Springs, LLC; Rabbitt Hill, LLC; Tinamit Junan Uleu – Earth Peoples United; and Yazmin Ranger.

CDFW Team Support:

CDFW developed a list of targeted alliances and associations, produced an initial array of targeted survey points, and assisted with database quality control. The CDFW team leaders included Jaime Ratchford, Rachelle Boul, Todd Keeler-Wolf, and Nani Teves. These individuals also provided training and assisted with plot sampling. Additional CDFW staff who provided invaluable support include Rosalie Yacoub, Sabrina Bento, and Monica Tydlaska.

INTRODUCTION

PURPOSE

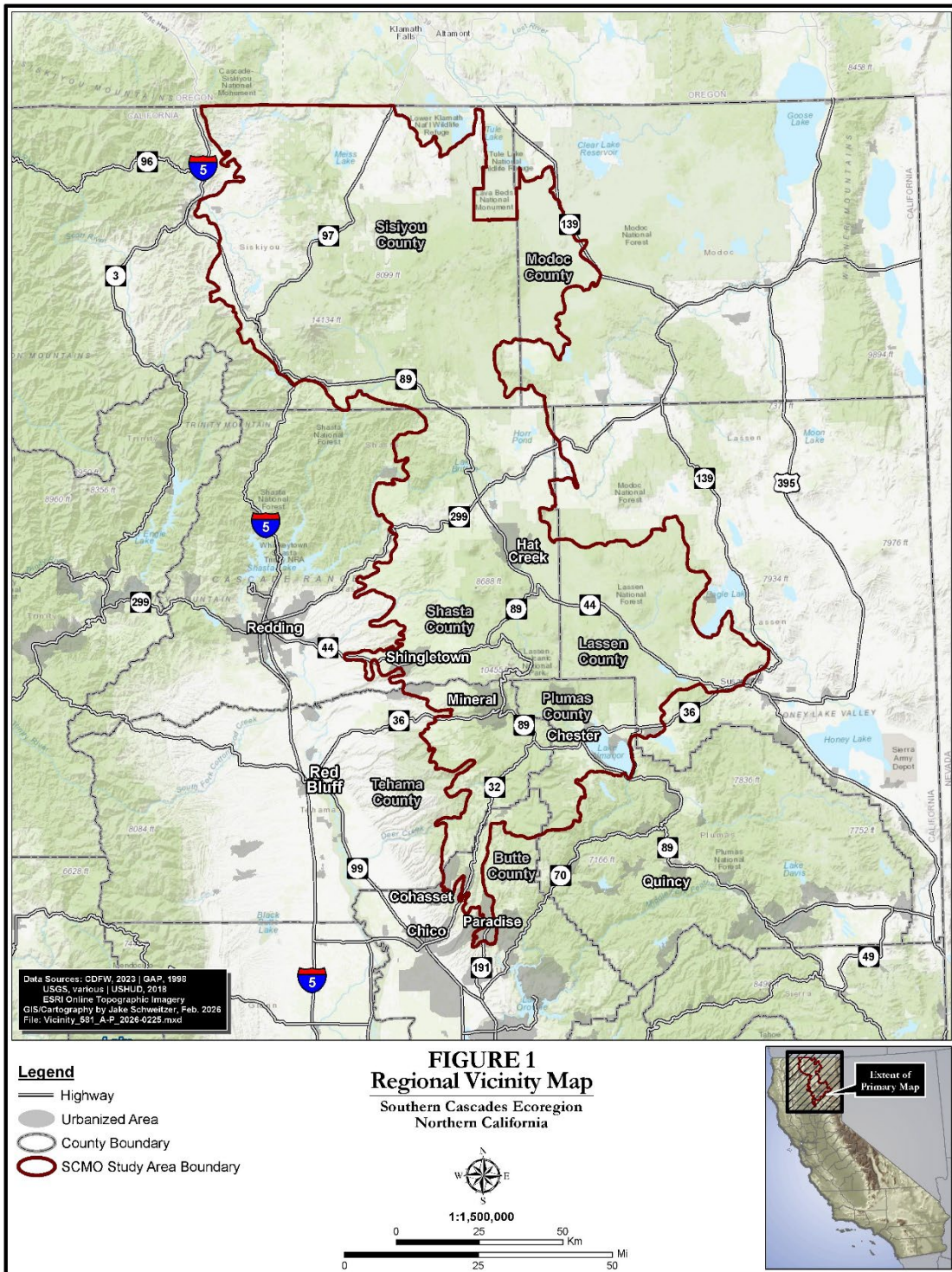
In 2023, the California Department of Fish and Wildlife (CDFW) Vegetation Classification and Mapping Program (VegCAMP) contracted Vollmar Natural Lands Consulting (VNLC) to conduct vegetation sampling throughout the Southern Cascades Ecoregion of California (Miles and Goudey 1997, Figure 1) referred as SCMO in this project. VNLC subcontracted Siskiyou Bio Surveys (SBS) to assist with the field sampling and processing of field data. These surveys will provide floristic data to develop a hierarchical classification of plant communities for the ecoregion. The future classification will be included in the Manual of California Vegetation (MCV) and will meet the standards of the Survey of California Vegetation (SCV) as well as the National Vegetation Classification System (NVCS) (FGDC 2008). In turn, the classification and the field collected data will serve as the foundation for a fine-scale vegetation map of the region. This project is one among many related projects that seek to provide state-wide vegetation classification and mapping datasets. Vegetation, defined as the patterns of plant cover over the landscape, is the best biological indicator of wildlife habitat quality and ecosystem function. It synthesizes much of what ecologists and conservation biologists require to understand the terrestrial landscape. Fine-scale vegetation maps are used by CDFW, other state and federal agencies, non-governmental organizations, and the public for conservation and management efforts, and many other purposes.

STUDY AREA LOCATION AND ENVIRONMENTAL SETTING

The SCMO study area encompasses over 4.1 million acres in northern California, extending from the Oregon border south to the City of Paradise. The region is just east of the northern center of the state (Figure 1), and is characterized by volcanic geology, as exemplified by such prominent volcanoes as Mount Lassen and Mount Shasta. This volcanic region represents the southern edge of the greater Cascades Mountain Range, which includes a chain of volcanoes that extends northward to British Columbia, Canada. Other prominent volcanoes in the chain include Mount Hood, Mount Saint Helens, and Mount Rainier.

The study area is a mountainous region that extends from approximately 227 to 4322 meters (745 to 14 179 feet) above sea level. The lowest elevations are at the southern and western margins of the region, while the highest are atop the tallest volcanic peaks—Mount Lassen (3187 meters) and Mount Shasta (4322 meters). The average elevation throughout the study area is approximately 1444 meters (4740 feet) (USGS 1997). The vegetation sampling was restricted to vegetated areas below the highest elevations. The ecoregion is bounded to the west by the Klamath Mountains, which consist of predominantly metamorphic geology, and to the southwest by the Great

Figure 1. Regional Vicinity Map



Valley region, which consists of mostly sedimentary materials. It is bounded to the southeast by the northern Sierra Nevada Mountains, which consist largely of plutonic rocks, and to the east by the Great Basin region (Baldwin et al. 2012). Like the SCMO study area, the Great Basin region consists largely of volcanic rocks, but is a more arid, high desert region, a result of it being east of both the Southern Cascades and the Klamath Mountains, which block most of the moisture-bearing winds that blow eastward from the Pacific Ocean. The Great Basin extends eastward across much of Nevada and Utah and is not considered to be part of the California Floristic Province (Baldwin et al. 2012). Being east of the Klamath Mountains, the SCMO region is drier but benefits from orographic precipitation as well as remnant westerly wind currents. Precipitation levels in the SCMO study area range from only a few inches to almost 123 inches per year, with a yearly average of approximately 23 inches, with the lowest precipitation occurring along the eastern edges and lower elevations, and the highest along mid-level mountain slopes (PRISM 2006).

Vegetation within the Southern Cascades is highly varied but consists largely of coniferous forests, with interspersed shrublands, hardwood woodlands and forests, grasslands, and a range of seasonal and perennial wetlands. The neighboring Klamath Mountains and Sierra Nevada encompass many of the same plant communities but feature a wider range because of the more complex geology and generally higher rainfall. As a result of more arid conditions, the Great Basin Ecoregion is dominated by lower-growing, generally sparser shrubland vegetation. The Great Valley has largely been converted to agricultural uses, but there are remnant grassland, wetland, and riparian plant communities (Baldwin et al. 2012).

SCOPE OF WORK

The vegetation sampling adhered to the methods developed by CDFW and the California Native Plant Society (CNPS). The specific methods for the sampling and associated tasks are described in detail below in the Methods section. The project team was tasked with sampling a minimum of 1600 vegetation plots, including at least 320 within herbaceous communities such as grasslands and wetlands, to be sampled as relevés. The remaining plots targeted primarily woody habitats to be sampled as rapid assessments (RA).

The scope of work also included the collection of at least 200 voucher specimens to be pressed, labeled, and submitted to an accredited herbarium. Additionally, VNLC included in its proposal for the project a commitment to collect a minimum of 1000 reconnaissance-level data points. The purpose of these points is to help guide the fine-scale vegetation mapping, especially in areas where complete plot sampling was not possible—primarily along roads at the margins of private properties and within recently burned areas. All the tasks were to be carried out from late April 2023 to early April 2026. During the duration of the project there was coordination with the CDFW management team, including regular meetings, interim data deliverables, and calibration training exercises.

METHODS

FIELD SAMPLING

Sample Allocation

Prior to field sampling, a stratified random survey design was developed by CDFW to generate a target sample point allocation using GIS software to guide vegetation survey locations to be sampled. The allocation approach attempted to balance three goals: 1) generate a target number of samples based on predicted available capacity for staff conducting the field surveys (time and budget); 2) distribute samples among the coarse vegetation types so that both rare and common types are represented; and 3) facilitate access to sites based on land ownership and proximity to roads or trails. This approach, in combination with manual photo-interpreted sample allocation and subjective identification of stands across a landscape through reconnaissance, maximized efficiencies that enabled more samples to be collected while also increasing the diversity of vegetation types sampled. The target sample points were used to direct exploration at the point and surrounding area for homogeneous stands of vegetation to sample, rather than to act as a fixed sampling location. More than one vegetation type could be sampled in the area surrounding the target sample point if the sampling locations were greater than 500 meters (more typically 1000 meters) apart to control for autocorrelation, or if the vegetation stands were in different strata or in disparate hydrologic settings. In addition, field crews carried a list of MCV vegetation alliances and associations that potentially occur within the study area, with target survey counts for each, and kept a running tally of the number of samples collected for each type. This ensured that samples were distributed proportionally across all known types and that as many types as could be discovered were sampled.

The stratified random survey design used the North Interior CalVeg vegetation dataset (USFS 2017) combined with the National Wetlands Inventory (NWI, USFWS 2016) dataset as the coarse vegetation base to stratify the allocation of sample target points. These two datasets were combined using an identity procedure and then divided further by areas below and above 1500 meter elevation (4921 feet), and areas of ultramafic soil selected from Soil Survey Geographic Database (NRCS 2023). Then the region was divided by fire perimeters (CalFire 2021) for the years 2017 to 2021, with areas of high soil burn severity, as determined by Burned Area Emergency Response (BAER) data (USDA 2021), excluded. Exclusions were also made for recent clear-cuts as identified in Timber Harvest Plan data (CalFire 2022). The allocation area was bounded within 500 meters (1640 feet) of roads that occurred within parcels found in the 2022 California Protected Areas Database (GreenInfo Network 2022). Most of these properties consisted of public lands, to which CDFW facilitated access. Distance from roads and trails used Euclidean distance which excluded slopes exceeding 25 degrees, to prevent navigation across extremely steep terrain. Stratification was based on unique cover type combinations between CalVeg, NWI, elevation, ultramafic soils, and fire layers across the study area. A stratification of the unique combinations was done, and then ArcPro

GIS software Create Random Points tool was used to generate target points according to the stratification, constraints as described above, and the desired total number of points. The final stratified random allocation contained 622 points.

Adding to the allocation points provided by CDFW, VNLC produced an additional 1,386 allocation points within public lands of the SCMO study area. The allocation methods were similar to those described above, but with a few alterations. The CalVeg dataset served as the primary source data from which to extract polygons, with the number of points allocated to each habitat type being a function of the percent cover of the total dataset for the study area. The points were similarly allocated randomly within habitat polygons, but with a constraint of 300 meters (984 feet) from roads or trails rather than 500 meters. Thirty meters (98 feet) was established as a minimum distance from roads—no plots were to be established less than 30 meters from roads, as such areas are typically subject to disturbances that result in less useful floristics data. As with the methods employed by CDFW, the stratification parameters included elevation and U.S. Department of Agriculture (USDA) soils data (NRCS 2023), and both clear-cut and severely burned areas were excluded. However, the allocation points were stratified not only by ultramafic versus non-ultramafic soil units, but also by basalt and non-basalt units. The points were also stratified by a generally north aspect versus a generally south aspect (90 and 270 degree cut-offs). The additional soil stratification parameter was added because of the potential influence of basalt flows in the SCMO volcanic region. The stratification by aspect was added to try to capture potential diversity within plant communities based on aspect, but without overly complicating analysis with multiple aspects. Since more north-facing slopes are typically more shaded and mesic relative to south-facing slopes, it was assumed that a given plant community occurring on different aspects may have slightly different plant compositions, especially in the herbaceous layer, along with other habitat differences. Although the allocation points were not further stratified by elevation, a GIS polygon layer was produced to show the elevation ranges corresponding to the target points on survey maps, to facilitate field survey planning based on climate and presumed phenology throughout the survey seasons. The elevation ranges depicted on survey maps were symbolized by color for areas below approximately 900 meters (3000 feet), areas between approximately 900 and 1525 meters (3000 – 5000 feet), areas between approximately 1525 and 2135 meters (5000 – 7000 feet), and areas above 2135 meters (7000 feet).

The allocation points produced as described above served as the primary targets for the first year of the study (2023), and for part of the second year (2024, through late spring and early summer). Subsequent survey allocation points were produced by reducing the CalVeg dataset to less common habitat types that were not adequately captured during the broader allocation, and by using aerial photography to refine the identification of herbaceous plant communities, which are very coarsely mapped and more generally defined in CalVeg. There was an effort to identify different patterns on the landscape that were presumed to reflect different types of grassland and wetland habitats. Additionally, as sampling had been completed within most of the common plant

communities, records of individual plant specimens provided by the participants of the Consortium of California Herbaria (ucjeps.berkeley.edu/consortium/) were downloaded from the Calflora database (2023, 2024, and 2025), and these served as targeted allocation points for potentially occurring stands of uncommon plant communities. For example, plant species that are endemic to vernal pools were targeted as potential vernal pool communities, and riparian-associated trees and shrubs were targeted as potential communities of interest.

Throughout the duration of the three-year project, but especially during the first year, an effort was made to gain access to and sample within private lands. A standardized letter with project-specific documentation as well as a formal request for permission to enter private properties, was developed by CDFW and VNLC. The letter was submitted to landowners and managers to review and sign. Primary targets included large timber companies known to own properties in the region, such as Sierra Pacific Industries (SPI), FWS Forestry, and Pacific Gas and Electric. Such entities own and manage hundreds of thousands of acres in the region, with SPI properties alone accounting for almost half a million acres. In addition, VNLC is fortunate to have several close contacts among landowners in the region through work involving the establishment of conservation easements. VNLC ecologists have helped to establish easements over several large private ranches in the SCMO study area, all of which were amenable to sampling on their lands. In turn, these landowners provided contact information to additional landowners, leading to access to many thousands of acres of private property, with many such properties encompassing habitats of special interest, such as volcanic springs and unique vernal pool types. VNLC allocated approximately 1000 allocation points within private lands in the study area, though many of the smaller properties were surveyed more on an opportunistic basis—they were reviewed remotely to identify potential areas of interest, but were visited regardless of what was observed remotely, then investigated carefully for any habitat types that were under-represented among sampled plots at the time.

Data Form and Field Map Development

At the outset of the project, in 2023, VNLC generated a digital data form using Environmental Systems Research Institute (ESRI) Survey123 application that was based on the combined CDFW-CNPS Relevé and Rapid Assessment protocol (Appendix A). The form contains a series of menus, radio buttons, check boxes, and automated numeric calculation scripts that streamline and standardize data entry. The form also contains all alliances and associations that were documented in California as of 2023, which could be selected by means of a dropdown menu by entering constituent plant species names. A dropdown menu featuring only plant taxa included within the Jepson eFlora database for the Southern Cascades Ecoregion facilitated the entry of plant taxa for plots, while also reducing the potential for inclusion of taxa in the final database that do not occur in the region. However, a number of plants not included in

that database were confirmed to be in the region, a large percentage of which are non-native species.

Maps that included project-specific layers and basemap imagery were prepared using ESRI Field Maps application. Field Maps provided offline access to published ArcGIS Online (AGOL) maps and layers, which included the study area boundary, allocation points, CalVeg vegetation polygons, elevation ranges, roads and highways, fire history polygons, and property boundaries. These were augmented by standard ESRI topographic maps and aerial imagery. Field Maps were used to navigate to allocation points and then to record RA or relevé plot locations. A link was provided in Field Maps to launch the Survey123 application to enter detailed survey data for each survey point. A separate reconnaissance survey point layer was used in Field Maps to collect more limited data for those surveys. This is described in detail in the Data Collection section below.

Field Sampling Plan

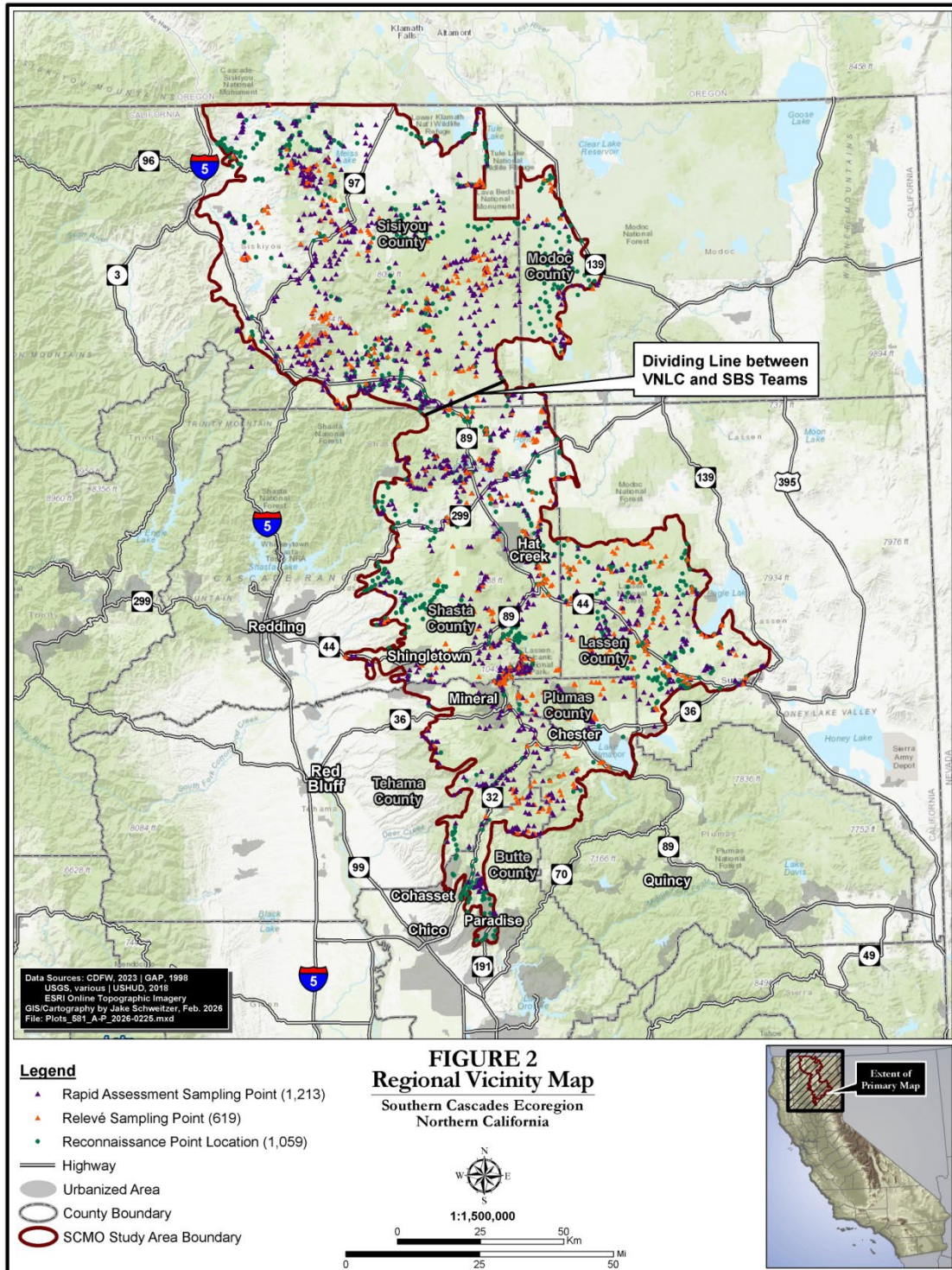
A field sampling plan was prepared and submitted in early June of 2023 to CDFW managers, to ensure concurrence on the sampling locations and timing. The plan outlined the broad-level approach for the project, including the division of labor, survey timing, details pertaining to private land access, and the methods for allocating additional target points.

VNLC and SBS divided up the entire study area into two halves. Since VNLC's primary office is south of the study area (Berkeley, California), and SBS is based north of the study area (Ashland, Oregon), VNLC focused on surveys in the southern half of the region, while SBS would focus surveys in the northern half (Figure 2). The two firms were to generally work towards the center of the study area over the timeframe of the project, with the timing of surveys in specific areas being driven by elevation and phenology. Surveys focused within areas of lower elevation and upland habitats were scheduled earlier in the blooming season (i.e., late spring to early summer), while surveys focused in areas of higher elevation and within wetland/riparian habitats were scheduled later in the season (mid-summer to fall). The areas targeted for sampling were divided up into zones and assigned to survey teams such that each team surveyed only within their zone. This prevented teams from sampling too close to each other and thus averting autocorrelation. Teams were led by lead botanists from each firm. A naming convention was agreed upon to assign a unique Survey ID to each plot, which included the project code (SCMO), the surveying firm (VNLC or SBS), and a four-digit number, such as "SCMO-VNLC-0001".

Data Collection

Field staff received a three-day training June 20-23, 2023 on CDFW-CNPS Protocol for Combined Vegetation Rapid Assessment and Relevé Sampling (Appendix A) provided by VegCAMP vegetation ecologists. Field data collection

Figure 2. Field Survey Locations Map



continued for three field seasons, June to October 2023, April to October of 2024, and April to October in 2025. Field staff received a two-day refresher training prior to the field seasons in 2024 and 2025. Sampling conducted in October was mostly conducted within perennial wetland habitats or as reconnaissance points.

The sampling protocol for data collected was based on standardized vegetation sampling methods developed by CDFW and CNPS (see Appendix A). These protocols comply with Survey of California Vegetation (SCV) standards for vegetation classification and habitat assessment. The relevé method is plot-based and the rapid assessment method is a plotless survey, though both methods use vegetation stands as the basic sampling unit. A stand is defined as an area of vegetation that has both compositional and structural integrity and represents a relatively homogeneous vegetation type that repeats across the landscape. Field data included the date of sampling, GPS location, environmental characteristics of the stand (microtopography, substrate, soil texture, slope, aspect, ground surface characteristics, disturbance type and intensity), vegetation structure (tree, shrub and herb cover and height, total vegetation cover), species composition and cover, site history, and field-assessed alliance and association names. Additionally, at least four digital photos were taken in cardinal directions from each sample location. Any unknown plant specimens collected during the field season were identified using the currently accepted taxonomic keys and followed current Jepson eFlora nomenclature (Jepson eFlora 2026). Field assessed vegetation alliances and associations were assigned to plots on a preliminary basis using previously developed keys, including those for the Sierra Nevada Foothills (Ratchford et al. 2024a) and mountains regions (Ratchford et al. 2024b) as well as for the Modoc Plateau Ecoregion (Boul et al. 2021).

In addition to rapid assessment or relevé surveys, reconnaissance surveys were conducted throughout the project area. These surveys were conducted when complete plot sampling was not possible often due to inaccessible areas or when a quota for a given vegetation type had been reached. Reconnaissance surveys are helpful in guiding the fine-scale vegetation mapping process. Points were recorded within plotless areas using the same GPS-enabled phones and tablets that were used to collect RA and relevé plot location data. Attributes collected included a unique identification number, the survey date, the GPS unit's name (phone or tablet), bearing/distance/inclination for offset points, presumed (field) alliance and association names, the cover value for the most prevalent (top four) plant species from each stratum (tree, shrub, and herb), and estimated stand size. Reconnaissance points were also recorded at the margins of private properties where land access was not granted, often involving the collection of habitat information as visible from the edges of roads.

Plot sampling carried out as part of the project avoided severely burned areas that had little to no regenerating vegetation. It was determined by CDFW and the project team that plots within such areas would not yield useful data for the purpose of classification and mapping. Unfortunately, a substantial portion of the study area burned during the years prior to the project timeframe. Specifically, over one-quarter of the entire region

had been burned within the Camp Fire (2018, ~153,000 acres), the Dixie Fire (2021, ~964,000 acres), and the Park Fire (2024, ~429,000 acres). Reconnaissance surveys were often conducted in these areas instead of rapid assessment or relevé surveys.

Plant Identification and Voucher Specimens

Staff collected specimens during surveys to confirm plant identifications and to submit to the Jepson Herbarium. Initially, specimens chosen were species of interest (e.g., uncommon species or diagnostic species), but in late 2024, the team received a list of requested species from the Jepson Herbarium, which was then used as a guide for collection.

The specimens were pressed in newspaper and submitted with standardized labels that listed the project name, the scientific and family names, location information, the date of collection, associated plant taxa, latitude and longitude, elevation, GPS error in meters, the collector's name, and the plot identification number within which the plant was found, if applicable. The standardized herbarium labels were developed by VegCAMP with guidance from the Jepson Herbarium. All identification information and collection status were updated in the vegetation survey database.

DATA PROCESSING

All data went through multiple rounds of quality control (QC). Field staff did a preliminary QC of their data using a guideline document provided by CDFW. The complete dataset was then checked for problems by VNLC and SBS staff as described below. Data collected during the first two weeks of each field season was submitted to CDFW for review and QC to ensure the protocol was being implemented correctly.

The plot data collected in the field, including both the Survey 123 field form data and geospatial survey points, were downloaded from ArcGIS Online (AGOL), processed and checked for consistency and errors. A Python script was used to download the Survey 123 field form data and associated plot photographs. The script automatically inserted the form data into three separate tables within an Access database—the standard RAPlots, RAPLants, and RAImpacts tables. The script also inserted the photographs into a series of folders, which were named with the identification number of each plot. The name of each image file included the bearing of the photo (e.g., east, west, north, south, and northeast).

The field form included a number of features to standardize data entry and to reduce the potential for errors, such as dropdown menus that standardized attributes, constraints on percent cover values, and summary statistics. However, there were a number of fields that allowed the introduction of errors. These include descriptive text fields with the potential for inconsistent entries, typos, and grammatical errors, such as “Other” fields for plant and alliance names not included in the dropdown menus. Several fields in the standard RA-relevé form relate to each other, such as numeric slope and aspect fields versus descriptive fields, and cover values of individual plant species versus cover

values for each stratum that includes each plant. These types of errors required extensive error-checking throughout the database. The primary methods used to find such errors included sorting of each of the fields and the creation of summary and frequency tables to find outlying and inconsistent values. Most fields that feature attributes with only a single value were double-checked to ensure the value was correct. For example, a plant taxon recorded only once throughout the study area was checked to confirm that it is known from the region or seemed likely to occur. All recorded special-status plants were likewise double-checked, regardless of the number of occurrences, to confirm each plant's range and habitat preferences in comparison with where it was documented. Survey locations were thoroughly reviewed for accuracy and to ensure they fell within the boundaries of lands we had permission to access. Photos from each survey were sorted into folders by survey ID.

Upon completion of the error checking, CDFW staff reviewed the table and provided additional guidance and suggested edits.

RESULTS

SAMPLING

Sample Collection

A total of 1832 surveys were sampled between June 2023 and October 2025. This is 232 more than the required 1600 plots stipulated in the project contract. Of the surveys, 619 were relevés, amounting to 34 percent (and 299 more than the required 320 relevés). The vast majority of the relevé plots were of herbaceous plant communities, primarily grasslands and wetlands, though a few relevés were established within woody communities of interest. Conversely, nearly all rapid assessments were sampled within woody habitats, including a variety of woodland, forest, and shrubland communities.

Based on the initial field assessment, 680 associations within 224 alliances were sampled. The alliances consist of 37 tree communities, 56 shrub communities, 131 herbaceous communities, and one non-vascular community. There are 30 alliances sampled that were not among those provided as targets by CDFW. Most of these were found to be repeating, but a few of them were not encountered again—these were sampled because they were floristically interesting and generally assumed to be repeating. Associations consist of 255 tree communities, 170 shrub communities, 255 herbaceous communities, and one non-vascular community. The associations include 155 “unknown” types that were not obvious from initial field data collection. Among all plots, 1187 represent habitats that were dominated by upland plant species, amounting to 65 percent, while the remaining 645 (35 percent) were wetland/riparian habitats.

The highest elevation survey was approximately 3095 meters (10,153 feet) above sea level, and the lowest was approximately 331 meters (1086 feet) (USGS 1997).

The plot locations are presented in Figure 2, and the list of targeted and sampled alliances and associations is presented in Appendix B, along with the number of collected plots for each alliance. The complete database of plot data is provided in a Microsoft Access database delivered to CDFW.

In addition to the RA and relevé plots sampled, the project team collected 1059 reconnaissance points. Many of these are within burned areas and along roadsides near private lands. The cover of dominant species from each stratum can be used to help guide future vegetation mapping efforts for the region. The locations of the points are shown in Figure 2.

Floristics

A total of 1742 vascular plant taxa were identified within sampled plots throughout the SCMO study area. This number includes taxa that were identified only to the species level, for which the subspecies or variety was not provided, most typically because the necessary plant parts were not available or appropriately developed.

Among all plant taxa, 1558 are presumed to be native to California, amounting to 89 percent, while the other 184 taxa (11%) are introduced to the state. This is a high percentage of California native taxa but is generally consistent with other montane regions, which have much higher percentages of native species compared to cismontane regions (e.g., the Central Valley, the Coast Ranges, and lower elevation coastal regions of Southern California). Among the introduced taxa, 66 (4% of all taxa) are rated by the California Invasive Plant Council (Cal-IPC) as invasive, and another five taxa are on the Cal-IPC Watch List. The Cal-IPC defines invasive plants as those that displace native plants, increase wildfire and flood danger, consume valuable water, degrade recreational opportunities, and destroy productive range and timber lands (Cal-IPC 2026). Their unconstrained growth also degrades wildlife habitat by the displacement of native plants that provide more suitable forage, nectar, pollen, and shelter.

Among the 1742 plant taxa, 69 (4% of all taxa) are considered to be special-status species. These are included in the California Rare Plant Rank (CRPR) inventory maintained by CNPS, one of which is also ranked as federally threatened and California endangered. These are listed along with associated floristic information in Appendix D, and include the CRPR ranks listed below.

- One taxon ranked as 1B.1
- Seven taxa ranked as 1B.2
- Two taxa ranked as 1B.3
- One taxon ranked as 2B.1
- Ten taxa ranked as 2B.2
- Thirteen taxa ranked as 2B.3
- One taxon ranked as 3
- One taxon ranked as 3.2

- Thirteen taxa ranked as 4.2
- Twenty taxa ranked as 4.3

The rank definitions are as follows:

- CRPR 1B: Plants rare, threatened, or endangered in California and elsewhere
- CRPR 2B: Plants rare, threatened, or endangered in California but more common elsewhere
- CRPR 3: Review List: Plants about which more information is needed
- CRPR 4: Watch List: Plants of limited distribution

Threat Ranks:

- 0.1: Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
- 0.2: Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)
- 0.3: Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

Additionally, two taxa are proposed by CNPS for special-status ranks. They are coded as “PPD” in Appendix D, Table 1.

All individual vascular plant taxa recorded during the plot sampling are provided in Appendix D, Table 1, along with their common name, family, USDA plant code, stratum, origin (native versus non-native), and standing as invasive or special-status. The number of times a given taxon was recorded within the plots is also provided.

A total of 260 voucher specimens were submitted to the Jepson Herbarium at the University of California, Berkeley. The complete list of voucher specimens collected and submitted to the herbarium is provided in Appendix C.

Aside from vascular plants, numerous occurrences of non-vascular classes were cataloged within the plots, including bryophytes (mosses, liverworts), algae, lichens, and biotic crust. These are listed in Appendix D, Table 2. Since it was not part of the scope of work, these were not classified beyond their life form names.

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APPENDIX A: PROTOCOL FOR CDFW-CNPS COMBINED RAPID ASSESSMENT AND RELEVÉ SAMPLING

CDFW-CNPS Protocol for the Combined Vegetation Rapid Assessment and Relevé Field Form

(January 11, 2024)

Introduction

This protocol describes the methodology for both the Relevé and Rapid Assessment (RA) vegetation sampling techniques as recorded in the Combined Vegetation Rapid Assessment and Relevé Field Form. The same environmental data are collected for both techniques. However, the relevé is a plot demarcated with a measuring tape, and all species within the plot are recorded along with cover values. The rapid assessment sample is not based on a taped plot, but is based on a visually estimated, usually circular area within a representative portion of the entire stand, with up to 20 of the dominant or characteristic species and their cover values recorded.

In general, collect rapid assessments in woody vegetation and relevés in herbaceous vegetation. When working in an area that has not been sampled before, RAs in woody vegetation may list more than 20 species.

Defining a Stand

A stand is the basic physical unit of vegetation in a landscape. It has no set size. Some vegetation stands are very small, such as a portion of a vernal pool, and some may be several square kilometers in size, such as a forest type.

A stand is defined by three main unifying characteristics:

- 1) It has compositional integrity. Throughout the site, the combination of species is similar. The stand is differentiated from adjacent stands by a discernable boundary that may be abrupt or indistinct.
- 2) It has structural integrity. It has a similar history or environmental setting that affords relatively similar horizontal and vertical spacing of plant species. For example, a hillside forest originally dominated by the same species that burned on the upper part of the slopes but not the lower would be divided into two stands. Likewise, sparse woodland occupying a slope with very shallow rocky soils would be considered a different stand from an adjacent slope with deeper, moister soil and a denser woodland or forest of the same species.
- 3) It is typically a repeating pattern on the landscape, in which the plant assemblage occurs in other sites with similar plant composition and environmental setting.

The structural and compositional features of a stand are often combined into a term called homogeneity. For an area of vegetated ground to meet the requirements of a stand, it must be homogeneous (uniform in structure and composition throughout).

Stands vary in size and may be sampled even if they are below a “minimum mapping unit” area (a mapping rule of set size such as 1 acre or 1/2 acre specific to a mapping project). For example, a vernal pool is often mapped at the group level because it is small in area, while multiple vernal pool alliances or associations may exist and be sampled as separate stands within a broader map polygon.

Selecting a bounded plot (Relevé) or representative area (Rapid Assessment) to sample within a stand

Stands to be sampled may be selected by evaluation prior to a site visit (e.g., from aerial photos) or they may be selected on site during reconnaissance to determine extent and boundaries, location of other similar stands, etc.

Because many stands are large, it may be difficult to summarize the species composition, cover, and structure of an entire stand. A sample of vegetation is selected to be representative of the entire stand and should be conducted in a standardized way to ensure that it can be compared to samples of other stands. This means that you are not randomly selecting a plot; on the contrary, you are actively using your own best judgment to find a representative example of the stand.

Selecting a relevé plot or RA area requires that you see enough of the stand you are sampling to feel comfortable in choosing a representative plot location. Take a brief walk through the stand and look for variations in species composition and in stand structure. In hilly or mountainous terrain, look for a vantage point from which you can get a representative view of the whole stand. Variations in vegetation that are repeated throughout the stand should be included in your plot. Once you assess the variation within the stand, attempt to locate a sample area that captures the stand's common species composition and structural condition.

Tracking sampled vegetation types

For large projects, the number of samples should be tracked daily or weekly by field-assessed Alliance and Association type so that samples are distributed as evenly as possible over types and time is not wasted collecting excessive numbers of samples of certain types. When multiple teams are in the field in the same week, daily communication between teams about Alliances and Associations sampled can ensure even sampling. *Prior to selecting a stand to sample, determine if what you are going to sample is needed based on this tracking.*

Selecting samples to avoid spatial autocorrelation

Do not place more than one sample within a stand. For large projects, separate sample locations to limit spatial autocorrelation. Try to spread samples representing the same vegetation type at least 500 to 1000 meters apart. When possible, do not sample adjacent stands, especially if the adjacent stand is within the same life form (tree, shrub, herb). For example, samples taken from different formations, subclasses, or classes (e.g., wetlands vs. uplands, lithomorphic vs. mesomorphic) adjacent to one-another have a lower probability of sharing species and may be sampled within 1000 meters of each other. However, avoid sampling adjacent stands that tend to have overlapping species even if they are technically different formations, such as a grassland adjacent to an open oak woodland. Flexibility may be necessary in the case of sensitive natural community types that may have limited sampling opportunities across the landscape or in cases where there are obvious ecological distinctions between adjacent stands and they share very little species overlap (e.g., distinct rings of a single vernal pool or variation within a single fen).

Plot Size

All relevés of the same type of vegetation need to be an equivalent size if they are to be analyzed together. Plot size is dependent on the type of vegetation under study. Therefore, general guidelines for plot sizes of tree, shrub, and herbaceous communities have been established. Sufficient work has been done in temperate vegetation to be confident the following conventions will capture a comprehensive list of species:

Herbaceous communities: 100 m² plot

Special herbaceous communities of small size, such as vernal pools, fens: 10 m² plot

Shrublands and riparian forest/woodlands: 400 m² plot

Open desert and other shrublands with widely dispersed but regularly occurring woody species:
1000 m² plot

Upland Forest and woodland communities: 1000 m² plot

Plot Shape

A relevé has no fixed shape, though plot shape should reflect the character of the stand and is either a square, rectangle, or circle. Adjust the orientation and dimensions of the plot to represent the best approximation of stand homogeneity. If the stand is about the same size as a Relevé, the plot boundaries may be similar to that of the entire stand. If sampling streamside riparian or other linear communities, the plot dimensions should not go beyond the community's natural ecological boundaries. Thus, a relatively long, narrow plot capturing the vegetation within the stand, but not outside it, would be appropriate. Overarching plants do not need to be rooted within the plot to be included in the species list, however, species present along the edges of the plot that are clearly part of the adjacent stand should be excluded from the plot.

Location of GPS Points

For Relevés, one point will be considered the plot identifier (ID point) and should be in the SW corner of a rectangular or square plot, if possible, or in the center of a circular plot. If it is taken in another location, this should be noted in the Site History section.

Definitions of fields in the Field Form

I. LOCATIONAL/ENVIRONMENTAL DESCRIPTION

Relevé or RA: Circle the appropriate survey type.

Database #: This is the unique ID number for Relevés and Rapid Assessments, in the form of *PPPPxxxx*, where *PPPP* is the 4-character project code and *xxxx* is a unique 4-digit number (e.g. CARR0001 for Carrizo sample #1). If this is a long-term plot, a character from A to Z can be added to the unique ID for each re-sampling survey; so the first re-sample for CARR0001 would be CARR0001A.

Base Points: For a projected RA (GPS within stand = No), a Base Point will be taken where the surveyors are standing and a separate point will be projected into the stand. The ID of the basepoint is *B_PPPPxxxx*, i.e. *B_CARR0001*.

Photo Points: Occasionally, stand photos will be taken from a vantage point outside the stand, or in a place other than the survey point. The ID for this point is *PPPPxxxx_P#*, i.e. the first Photo Point for CARR0001 will be *CARR0001_P1*.

Date: Date of the sampling.

UID: The unique ID number of a reference point or allocation target that this survey describes (optional).

Name of recorder: The full name of the recorder should be provided on the first field form of the day. On successive forms, initials can be recorded.

Other Surveyors: The full names of each person assisting should be provided on the first field form of the day. On successive forms, initials of each person assisting can be recorded.

Location Name: The name of the property, location, park, or landowner name of permitted private properties. E.g. the specific name of the County Regional Park (XXXX), USFS (XXXXX), BLM property () or the owner name of a private parcel as it appears on your permit. Specific descriptions of where the stand and observer are within the stand belongs in the Site History field. Roadside/Right of Way surveys must include "Roadside" before the property name.

GPS name: The name/number assigned to each GPS unit. This can be the serial number if another number is not assigned.

Bearing°, left axis at ID point of Long / Short side: Relevé only. For square or rectangular plots: from the ID Point, looking towards the plot, record the bearing of the axis to your left. If the plot is a rectangle, indicate whether the left side of the plot is the long or short side of the rectangle by circling "long" or "short" side (no need to circle anything for square plots). If there are no stand constraints, set up the plot with boundaries running in the cardinal directions and place the ID Point in the SW corner.

UTM coordinates: Easting (**UTME**) and northing (**UTMN**) location coordinates using the Universal Transverse Mercator (UTM) grid. Record the information from your GPS unit. These coordinates are always the base point of the survey. Soil samples and photos are taken from this point, and exposure, steepness, topography, etc. are measured here. If the GPS point is not within the stand (i.e., the point is projected or digitized in the field), these are the UTM's of the base point. Important: a projected point or a point digitized in the field must always have a base point associated with it (projected surveys with estimates of distance and bearing are preferred over digitization). A base point can serve as the base for several distance surveys.

For Relevé plots, take the waypoint in the southwest corner of the plot whenever possible or in the center of a circular plot.

Zone: Universal Transverse Mercator zone. Zone 10 is for California west of the 120th longitude; zone 11 is for California east of 120th longitude (the straight portion of California's eastern boundary).

NAD83: This is the default GPS datum. If you use a different one, cross this out and write in the correct datum.

GPS error: ft./ m./ PDOP: Circle the appropriate unit of measure and record the error reading from the GPS unit.

Decimal degrees: *Use this only if your GPS unit will not record UTM coordinates.* Latitude–Longitude reading in decimal degrees. Record the information from your GPS unit. These coordinates are always the base point of the survey. Soil samples and photos are taken from this point, and exposure, steepness, topography, etc. are measured here.

For Relevé plots, take the waypoint in the southwest corner of the plot whenever possible or in the center of a circular plot.

GPS within stand? Yes / No: Circle "Yes" to denote that the GPS waypoint was taken directly within or at the edge of the stand being assessed for a Rapid Assessment, or circle "No" if the waypoint was taken at a distance from the stand (such as with a binocular view of the stand). If the point is taken at the edge of the stand, note direction to the center of the stand.


If No, cite from GPS to stand: distance (m), bearing°, inclination°: From the base GPS point, measure the distance to the projected point using a range finder. Record the compass bearing from the base point to the projected point; record the inclination if the base and projected points are not at the same elevation.

and record Base point ID: This is the ID of the base GPS point, where the surveyors were standing to record the distance survey. This is required for both projected points and points digitized in the field (gathering

projection data is preferred).

and Projected UTM's: These are the coordinates of the projected point, the point being surveyed. They are generated in the field if the GPS units have the ability to calculate projected points. If the GPS unit does not have this capability, make a note to that effect and leave these fields blank. Note that a digitized point, e.g., using your finger to plunk the location that you are surveying in Collector, is NOT a projected point and is not recommended.

Camera Name: Write the camera name or code as identified by the users.

Cardinal photos at ID point: Take four photos in landscape orientation for each cardinal direction (N, E, S, W) starting clockwise towards the north, from the ID Point, and record the jpeg numbers here. This symbol can be used to indicate the cardinal photos: . Try to include the horizon line in each photo (if possible while getting a good representation of the vegetation). If this is a distance survey to a projected point, take the four cardinal photos at the base point and at least one photo of the stand. A digital camera with a minimum 10 megapixel resolution is required.

Other photos: This may include cardinal photos at additional corners or other relevant photos. We recommend a diagonal photo facing NE from the SW corner when sampling an herbaceous relevé. Notes regarding photo locations or subjects can go here.

Stand Size: Estimate the size of the entire stand in which the sample is taken. As a measure, one acre is about 4,000 square meters (approximately 64 x 64 m), or 208 feet by 208 feet. One acre is similar in size to a football field.

Plot Area (m²): Relevé only. Circle "100" for a 100m² plot or record the appropriate plot size.

Plot Dimensions: Relevé only. Record the length and width of the plot in meters.

RA Radius: Rapid Assessments only. Estimate the radius of the area of the stand viewable from your sample point. This value is separate from the Stand Size of vegetation being sampled and any additional details/constraints can be documented in the Site History.

The radius must fall completely within the stand boundary and therefore cannot be greater than the distance from the sample point to the edge of the stand in any direction. If you can see the entire stand, then the radius will be the distance from your GPS point to the closest edge of the stand. For example, the radius will be constrained in long linear stands to the minimum width of the stand and thus the RA radius may not capture the full area that you survey. If your point is on the edge of the stand, record the radius into the stand, but note your location and the direction to which the RA Radius applies in the Site History section. RA Radius informs mappers and the image analysts of the dimensions of the stand visible from the sample point, so they can make connections between the vegetation on the ground and information in imagery and other GIS datasets.

Exposure: (Enter Actual ° and circle general category): While facing in the general downhill direction, read degrees of the compass for the aspect or the direction you are standing, using degrees from north, adjusted for declination. Average the reading over the entire stand, even if you are sampling a Relevé plot, since your plot is representative of the stand. If estimating rather than measuring the exposure, write "N/A" for the actual degrees, and circle the general category chosen. "Variable" may be selected if the same, homogenous stand of vegetation occurs across a varied range of slope exposures.

Steepness: (Enter Actual ° and circle general category): Read degree slope from your clinometer or compass with built in clinometer by following the manufacturer's directions for use. Make sure to average the reading across the entire stand, even if you are sampling in a Relevé plot, since your plot is

representative of the stand. If estimating rather than measuring, write “N/A” for the actual degrees, and circle the general category chosen.

Topography: First assess the broad (**Macro**) topographic feature or general position of the stand relative to the immediately surrounding landscape. This attribute does not refer to the watershed as a whole, but to a cross section of the topography at the location of your stand. For instance, if your stand is located along a small creek in a narrow, v-shaped canyon, your position would be at the “Bottom,” even if the canyon itself slopes downward. Since stands can occupy more than just a single slope position, **circle all the positions that apply.**

Then, assess the local (**Micro**) topographic features or the lay of the area within the stand being sampled (e.g., surface is flat or concave). **Circle only one of the microtopographic descriptors.**

Geology code: Geological parent material of stand. If exact type is unknown, use a more general category (e.g., igneous, metamorphic, sedimentary). *See code list for types.*

Soil Texture code: Record soil texture that is characteristic of the plot (e.g., coarse loamy sand, sandy clay loam). *See soil texture key for types.*

Upland or Wetland/Riparian: Indicate if the stand is in an upland or wetland/riparian setting. (wetland and riparian are one category.) Note that a site need not be officially delineated (as in the Army Corps of Engineer’s wetland delineation protocols) as a wetland to qualify as such in this context (e.g., seasonally wet meadow).

% Surface cover: The abiotic substrates of the plot. The total should sum to 100%. It is helpful to imagine “mowing off” all of the live vegetation at the base of the plants and removing it – you will be estimating what is left covering the surface. Note that non-vascular cover (lichens, mosses, cryptobiotic crusts), including “basal area” of ground attachment, is not estimated in this section.

- H₂O:** Percent surface cover of running or standing water, ignoring the substrate below the water.
- BA Stems:** Percent surface cover of the basal area of vascular plant stems at the ground surface. For most vegetation types, BA is 1-3% cover.
- Litter:** Percent surface cover of litter, thatch, duff, or wood on the ground.
- Bedrock:** Percent surface cover of bedrock, including outcrops.
- Boulder:** Percent surface cover of rocks >60 cm in the longest dimension.
- Stone:** Percent surface cover of rocks >25–60 cm in the longest dimension.
- Cobble:** Percent surface cover of rocks >7.5–25 cm in the longest dimension.
- Gravel:** Percent surface cover of rocks 2 mm–7.5 cm in the longest dimension.
- Fines:** Percent surface cover of bare ground and fine sediment <2 mm in the longest dimension (e.g., dirt, sand).

% Current year bioturbation: Estimate the percent of the plot exhibiting soil disturbance by any organism that lives underground. Do not include disturbance by ungulates. Note that this is a separate estimation from surface cover.

Past bioturbation present? Circle Yes if there is evidence of bioturbation from previous years in the plot.

% Hoof punch: Note the percent of the plot surface that has been punched down by hooves (cattle or native grazers) in wet soil. Depressions must be >2 cm deep.

Fire Evidence: Circle Yes if there is visible evidence of fire within the stand, and note the type of evidence in the "Site history, stand age, comments section," for example, "charred dead stems of *Quercus berberidifolia* extending 2 feet above resprouting shrubs." If you are certain of the year of the fire, put this in the Site history section. You may also record more general historic information if you lack the precise date of a fire (such as most recent fire appears to be 10-20 years ago).

Site history, stand age, comments: Briefly describe the stand including details about age/seral stage, disturbance history, nature and extent of land use, and other environmental and vegetation factors, such as distribution of species. Examples of disturbance history: fire, landslides, avalanching, drought, flood, animal burrowing, or pest outbreak. Also, try to estimate year or frequency of disturbance. Examples of land use: grazing, timber harvest, or mining. Examples of other site factors: exposed rocks, soil with fine-textured sediments, high litter/duff build-up, multi-storied vegetation structure, or other stand dynamics. Note any structural and phenological constraints to estimates of strata cover and height and any peculiarities of the site or observation that impact the vegetation measurements taken. Examples include: late phenology within deciduous tree stands reducing cover estimates or pygmy forests or other stunted growth. Include any additional details or constraints about the extent of the area assessed, meaning the area that has contributed to strata, height, and cover estimates. Also include any important site information about the location of the stand or the observers, like adjacency to something visible on imagery or something like "point taken near the north boundary of the stand because of steep slope"

Disturbance code / Intensity (L,M,H): List codes for potential or existing impacts on the stability of the plant community. See code list for impacts and definitions of levels of disturbance. Characterize each impact each as **L** (=Light), **M** (=Moderate), or **H** (=Heavy). Disturbance is evaluated on a stand basis.

II. HABITAT AND VEGETATION DESCRIPTION

California Wildlife Habitat Relationships (CWHR)

For CWHR, identify a size/age/height class for the plot using the following tree, shrub, and/or herbaceous categories. These categories are based on functional life forms. This data links the structural components of sampled stands within the SCV classification to the CWHR classification.

Tree DBH: Circle one of the tree size classes provided when the tree canopy closure exceeds 10% of the total cover, or if young tree density indicates imminent tree dominance. Size class is based on the average diameter at breast height (dbh) of each trunk (standard breast height is 4.5ft or 137cm). When marking the main size class, make sure to estimate the mean diameter of all trees over the entire stand, weighing the mean toward the larger tree dbh's if large trees are consistent in the stand, though they may be low in cover. The "**T6 multi-layered**" dbh size class signifies a multi-layered tree canopy, with a size class T3 and/or T4 layer growing under a T5 layer and a distinct height separation between the classes. Stands in the T6 class must contain a total absolute tree cover that exceeds 60% including at least 10% cover of size class 5 (>24" dbh) trees growing over a distinct layer of trees in size classes 3 (>6-11" dbh) or 4 (>11-24" dbh) with at least 10% combined cover.

Shrub: Circle one of the shrub classes provided when shrub canopy closure exceeds 10% (except in desert types) by recording which class is predominant in the survey. Shrub class is based on the average amount of crown decadence (dead standing vegetation on live shrubs when looking across the crowns of the shrubs).

Herbaceous: Circle one of the herb height classes when herbaceous cover exceeds 2% by recording the predominant class in the survey. Note: *This height class is based on the average plant height at maturity, not necessarily at the time of observation.*

Desert Riparian Tree/Shrub: Circle one of the size classes by measuring mean stem height (whether tree and/or shrub stand).

Desert Palm/Joshua Tree: Circle one of the palm or Joshua tree size classes by averaging all the stem-base diameters (i.e., mean diameter of all stem-base sizes). Diameter is measured at the plant's base above the bulge near the ground.

III. INTERPRETATION of Stand

Field-assessed vegetation Alliance name: Enter the name of the Alliance following the [Manual of California Vegetation \(MCV\) Online](#). Please use scientific nomenclature, e.g., *Quercus agrifolia* forest. Alliance and association names in the MCV follow the USDA Plants nomenclature in order to conform with the national standard. An Alliance is based on the dominant or diagnostic species of the stand, and usually reflects the uppermost and/or dominant height stratum. A dominant species tends to cover the greatest area, while a diagnostic species is consistently found in some vegetation types but not others.

The field-assessed Alliance name may not always exist in the current MCV, in which case you can provide a new or proposed Alliance name in this field. If this is the case, also make sure to state that it is not in the MCV under "Explain" below.

Field-assessed Association name (optional): Enter the name of the species in the Alliance and additional dominant/diagnostic species from any strata. In following naming conventions, species in differing strata are separated with a slash, and species in the uppermost stratum are listed first (e.g., *Quercus douglasii* / *Toxicodendron diversilobum*). Species in the same stratum are separated with a dash (e.g., *Quercus lobata* – *Quercus douglasii*).

The field-assessed Association name may not exist in the current MCV, in which you can provide a new or proposed Association name in this field.

Adjacent Alliances/direction: Identify other vegetation types that are directly adjacent to the stand being assessed by noting the dominant species (or known type). Also note the distance in meters from the GPS waypoint and the direction (general or in degrees) of the adjacent alliance (e.g., *Amsinckia tessellata* / 50m, 360° N or *Eriogonum fasciculatum* / 100m, 110°).

Confidence in Alliance identification: (L, M, H) With respect to the "Field-assessed Alliance name," note whether you have L (=Low), M (=Moderate), or H (=High) confidence in the interpretation of this Alliance name.

Explain: Please elaborate if your "Confidence in Alliance identification" is low or moderate. Low confidence can occur from such things as a poor view of the stand, an unusual mix of species that does not meet the criteria of any described Alliance, or a low confidence in your ability to identify species that are significant members of the stand.

Phenology: Indicate early (E), peak (P), or late (L) phenology for each of the strata. For herbs, this generally indicates if species are in flower and/or fruit and are therefore identifiable. For shrubs and trees, this attribute generally refers to cover, e.g., a tree that is fully leafed out will be considered peak (P) even if it is

not in flower. Phenology is useful for cover estimation and species identification issues and can be elaborated upon in the next field or in the Site History.

Other identification or mapping information: Discuss any further problems with the identification of the assessment or issues that may be of interest to mappers. Note if this sample represents a type that is likely too small to map.

IV. VEGETATION DESCRIPTION

Database #: Copy the database # from Page 1.

Overall Cover of Vegetation

Provide an estimate of cover for the life-form categories below. Record a specific number for the total aerial cover or “bird’s-eye view” looking from above for each category, estimating cover for living plants only. Litter/duff should not be included in these estimates.

The porosity of the vegetation should be taken into consideration when estimating percent foliar cover for all categories below: consider how much of the sky you can see when you are standing under the canopy of a tree, or how much light passes through the canopy of the shrub layer to help you estimate foliar cover.

% NonVasc cover: The total cover of all lichens, bryophytes (mosses, liverworts, hornworts), and cryptogamic crust on substrate surfaces including downed logs, rocks and soil, and horizontal surfaces (tree branches) but not on standing or inclined trees or vertical rock surfaces.

Total % Vasc Veg cover: The total cover of all vascular vegetation taking into consideration the porosity, or the holes, in the vegetation, and disregarding overlap¹ of the various tree, shrub, and/or herbaceous layers and species.

% Cover by Layer

Conifer Tree /Hardwood Tree: The total foliar cover (considering porosity) of all live tree species, disregarding overlap¹ of individual trees. Estimate conifer and hardwood covers separately. **Please note:** These cover values should not include the coverage of regenerating tree species (i.e., tree seedlings and saplings).

Regenerating Tree: The total foliar cover of seedlings and saplings, disregarding overlap¹ of individual recruits. See seedling and sapling definitions below.

Shrub: The total foliar cover (considering porosity) of all live shrub species disregarding overlap¹ of individual shrubs.

Herbaceous: The total cover (considering porosity) of all herbaceous species, disregarding overlap¹ of individual herbs.

¹ Porosity reduces the total cover of the canopy. Overlapping strata should not be included in the total cover percent; for instance, if a shrub is growing under a tree, only the cover of the tree will be added into the total; the cover of the shrub will be disregarded, except for the amount by which it fills in the porosity of the tree canopy.

Height Class by Layer

Note the modal height for conifer tree / hardwood tree, regenerating tree, shrub, and herbaceous categories. Modal height is based on the count of the most frequent height of plants within each layer. Record a modal average height value for each category by estimating the mean height for each group. Please use the following height intervals to record a height class: 1 = <1/2 m, 2 = 1/2-1 m, 3 = 1-2 m, 4 = 2-5 m, 5 = 5-10 m, 6 = 10-15 m, 7 = 15-20 m, 8 = 20-35 m, 9 = 35-50 m, 10 => 50 m.

Note: For the herbaceous layer height, this height class is based on the modal average plant height at the time of observation, as opposed to how this is recorded in the CWHR section (at maturity).

Species List and Coverage

For Rapid Assessments: List up to 20 species that are dominant or that are characteristically consistent within the assessment area. These species may or may not be abundant, but they should be consistent representatives in the survey. When different layers of vegetation occur, make sure to list species from each stratum. As a general guide, make sure to list at least 1-2 of the most abundant species per stratum. There is a heavy line on the form under the 20th line to limit the RA section of the species list.

Note: If constant, diagnostic, or interesting species occur outside the assessment area but in the stand, list the species and estimated stand cover in the Site History section.

For Relevés: list all species present in the plot, using a second species list page if necessary.

** If using a second species list page, note "Continued" on the bottom of the first page and be sure to note the Database # on the second page.

For both sample types, provide the stratum:

T = Tree. A woody perennial plant that has a single trunk.

A = SApling. 1" - <6" dbh and young in age, OR small trees that are <1" dbh, are clearly of appreciable age, and are kept short by repeated browsing, burning, or other disturbance. Includes trees that are re-sprouting from roots or stumps following fire, logging or other disturbance. These re-sprouts may exhibit a shrubby form, with multiple small trunks, but are species that are generally considered trees. If a majority of the trunks are >6" dbh, then the re-sprouts would be included under the "Tree" stratum.

E = SEedling. A tree species clearly of a very young age that is <1" dbh OR has not reached breast height. Applies only to trees propagating from seed; resprouts are not recorded here even if they meet the size requirements.

S = Shrub. A perennial, woody plant, that is multi-branched and doesn't die back to the ground every year.

H = Herb. An annual or perennial that dies down to ground level every year.

N = Non-vascular. Includes moss, lichen, liverworts, hornworts, cryptogammic crust, and algae.

Be consistent and don't break up a single species into two separate strata. The only time it would be appropriate to do so is when one or more tree species are regenerating, in which case the SEedling and/or SApling strata should be recorded for that species. These may be noted on the same line, *e.g.*:

Strata	Species	% Cover	C
T/A/E	Quercus douglasii	40/<1/<1	

In some cases, the stratum of a particular species might not be obvious. Some examples are *Juniperus californica*, which has the size and growth habit of a shrub, but it is considered a tree, and mistletoe, which is considered a shrub. It is useful to have a list of species with ambiguous strata for each project. Consult the MCV or contact VegCAMP if you are unsure.

C. If a species collection is made, it should be indicated in the collection column with a "C" (for collected). If the species is later keyed out, cross out the species name or description and write the keyed species name in pen on the data sheet. Do not erase what was written in the field, because this information can be used if specimens get mixed up later. If the specimen is then thrown out, add a "T" to the "C" in the collection column (CT = thrown out after confirmation) or cross out the "C". If the specimen is kept but is still not confidently identified, add a "U" to the "C" in the collection column (CU = collected and unconfirmed). In this case the unconfirmed species epithet should be put in parentheses [e.g., *Hordeum (murinum)*]. If the specimen is kept and is confidently identified, add a "C" to the existing "C" in the collection column (CC = collected and confirmed). If the specimen is later deposited in an herbarium, add a "D" to the existing "C" in the collection column (CD = collected and deposited) and note the receiving herbarium.

Using Jepson eFlora nomenclature, write out the scientific name of each plant to the finest taxonomic level possible. In general, do not abbreviate names except for dominant species that do not have ambiguous codes. If you aren't sure there aren't duplicate codes, don't use a code. When uncertain of an identification (which you intend to confirm later) use parentheses to indicate what part of the determination needs to be confirmed. For example, you could write out *Brassica (nigra)* if you are sure it is a *Brassica* but you need further clarification on the specific epithet.

Provide the % absolute foliar cover for each species listed, considering porosity. When estimating, it is often helpful to think of coverage in terms of the following cover intervals at first:

<1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, >75%.

Record the <1% cover in one of two categories:

"+" for <1% but not rare or solitary individuals (in most cases)

"r" for rare in plot or solitary individuals.

Keeping these classes in mind, refine your estimate to a specific percentage. The sum of all species percent covers may total over 100% because of overlap.

Include the percent cover of snags (standing dead) of trees and shrubs. Use the code "SNAG." Note their species, if known, in the "Species" column (i.e. SNAG – *Quercus wislizeni*).

For Rapid Assessments, make sure that the major non-native species occurring in the stand also are listed in the space provided in the species list with their strata and % cover.

For Relevés, all native and non-native species should be included in the species list.

Unusual species: List species that are locally or regionally rare, endangered, or atypical (e.g., range extension or range limit) within the stand. This field will be useful to the Program for obtaining data on regionally or locally significant populations of plants.

Note: Field forms are generally filled out in pencil, so that changes may be made easily while working in the plot or stand. Once out of the stand, however, entries on the field form should not be erased, but should be crossed out and corrected in a different-colored ink.

CODE LIST

GEOLOGY CODE

IGTU	Igneous (type unknown)
MIIG	Mixed igneous
ULTU	Ultramafic (type unknown)
VOLC	General volcanic extrusives
ANDE	Andesite
ASHT	Ash (of any origin)
BASA	Basalt
DIAB	Diabase
OBSI	Obsidian
PUMI	Pumice
PYFL	Pyroclastic flow
RHYO	Rhyolite
VOFL	Volcanic flow
VOMU	Volcanic mud
INTR	General igneous intrusives
DIOR	Diorite
GABB	Gabbro
GRAN	Granitic (generic)
MONZ	Monzonite
PERI	Peridotite
QUDI	Quartz diorite

METU	Metamorphic (type unknown)
MIME	Mixed metamorphic
GREE	Greenstone
BLUE	Blue schist
FRME	Franciscan melange
GNBG	Gneiss/biotite gneiss
HORN	Hornfels
MARB	Marble
PHYL	Phyllite
SCHI	Schist
SESC	Semi-schist
SLAT	Slate
ULTU	Ultramafic (type unknown)
SERP	Serpentine

SETU	Sedimentary (type unknown)
BREC	Breccia (non-volcanic)
CACO	Calcareous conglomerate
CALU	Calcareous (origin unknown)
CASA	Calcareous sandstone
CASH	Calcareous shale
CASI	Calcareous siltstone
CHER	Chert
CONG	Conglomerate
DOLO	Dolomite
FANG	Fanglomerate
LIME	Limestone
MISE	Mixed sedimentary
SAND	Sandstone
SHAL	Shale
SILT	Siltstone
CLAL	Clayey alluvium
DUNE	Sand dunes
GLTI	Glacial till, mixed origin, moraine
GRAL	Gravelly alluvium
LALA	Large landslide (unconsolidated)

GEOLOGY CODE, continued

LOSS	Loess
MIAL	Mixed alluvium
SAAL	Sandy alluvium
SIAL	Silty alluvium
MIRT	Mix of two or more rock types
OTHE	Other than on list

ROCK SIZE, measurement of longest dimension

Boulder	> 60 cm
Stone	25 cm to 60 cm
Cobble	7.5 cm to 25 cm
Gravel	2 mm to 7.5 cm
Fines	< 2 mm

DISTURBANCE CODES

01	Development
02	ORV activity
03	Agriculture
04	Grazing
05	Competition from exotics
06	Logging
07	Insufficient population/stand size
08	Altered flood/tidal regime
09	Mining
10	Hybridization
11	Groundwater pumping
12	Dam/inundation
13	Other
14	Surface water diversion
15	Road/trail construction/maint.
16	Biocides
17	Pollution
18	Unknown
19	Vandalism/dumping/litter
20	Foot traffic/trampling
21	Improper burning regime
22	Over collecting/poaching
23	Erosion/runoff
24	Altered thermal regime
25	Landfill
26	Degrading water quality
27	Wood cutting
28	Military operations
29	Recreational use (non ORV)
30	Nest parasitism
31	Non-native predators
32	Rip-rap, bank protection
33	Channelization (human caused)
34	Feral pigs
35	Burros
36	Rills
37	Phytogenic mounding
38	Sudden Oak Death

Descriptions of Common Disturbance Codes (Site Impacts)

Site impacts include any anthropogenic disturbance having an effect on vegetation. These are the standard codes for plant, animal, and natural community surveys, used by the Natural Diversity Database of the California Natural Heritage Program. Descriptions are provided for impacts that are common and for which additional clarification seems warranted. Impacts are evaluated as Light, Moderate, or Heavy. Unless otherwise stated, definitions of these values are:

- Light:** less than 33% of the stand is impacted
- Moderate:** between 33% and 66% of the stand is impacted
- Heavy:** more than 66% of the stand is impacted

01 Development: Used to describe any construction or human modifications to the environment that are not otherwise specifically included on the Disturbance Codes list. These can include fencing, informal campsite construction, building sites, etc. (e.g., houses, oil rigging pads, pumping stations, power transmission towers, walls, etc.)

- Light:** less than 2% of the stand is impacted
- Moderate:** between 2% and 5% of the stand is impacted
- Heavy:** more than 5% of the stand is impacted

02 ORV activity: "Informal" roads and trails created by off-highway vehicle activity. See 15 Roads/trails for examples

04 Grazing: Refers to the grazing of domesticated animals, and not necessarily to the grazing activities of native wildlife. Exceptions can be made in cases where management practices have resulted in the overpopulation of native herbivores and destruction of native vegetation (may include browsing on woody vegetation as well as herbaceous vegetation). Levels are determined by density of recent livestock droppings, level of distinction of browse lines on shrubs (attributable to livestock), density and extent of livestock trails, cover of livestock hoof-punch, and associated removal of vegetation cover from recent seasons.

05 Competition from exotics: Refers to implied competition for resources between native and introduced non-native plant species. The level of impact is determined by the proportion of the total cover occupied by exotic species compared to total cover of all species. Estimate total vegetation cover and total non-native cover then divide the latter by the former.

- Light:** less than 33% of total cover is non-native
- Moderate:** between 33% and 66% of total cover is non-native
- Heavy:** more than 66% of total cover is non-native

06 Logging: Refers to the large scale removal of tree biomass, usually in commercial operations. This impact should not be used to describe the localized felling of one or a few trees.

15 Road/trail construction/maint.: Includes all established roads and trails (dirt, gravel, paved) and their impact on any part of the sampled vegetation stand.

Descriptions of Common Disturbance Codes (Site Impacts)

- Light:** less than 33% of the vegetation polygon area is affected by any type of road
- Moderate:** between 33% and 66% of the vegetation polygon is intersected by any type of road
- Heavy:** more than 66% of the vegetation polygon is affected by roads of any kind



Light



Moderate



Heavy

19 Vandalism/dumping/litter: Includes temporary degradable as well as more persistent trash and junk (for example, concrete or cement fragments not used as rip-rap, see below)

21 Improper burning regime: Should be used only in cases where repeated burning has caused significant changes to the vegetation OR in cases where the fire interval has been much longer than natural (causing shifts in vegetation or senescence). It does not necessarily apply to a recently burned stand, even if the fire was human-caused.

27 Wood cutting: Refers to the small scale cutting of firewood, or to the limited cutting of wood for other purposes, and not to large-scale commercial logging operations.

32 Rip-rap, bank protection: The treatment of slopes of dikes, banks of streams, lakes and other water bodies by placement of riprap (an engineered layer of graded broken rock pieces) to prevent erosion by surface runoff, stream flows and/or wave action.

36 Rills: Small, intermittent water courses with steep sides usually only a few centimeters deep. They occur most often on recently cultivated soils or on denuded surfaces.

37 Phytogenic mounding: Refers to the build-up of soil and debris at the base of shrubs or trees (normally seen in semi-arid environments), with a concomitant loss of surface material between the shrubs or trees.

38 Sudden Oak Death: A disease of oaks and other woody perennials caused by the plant pathogen *Phytophthora ramorum*. The most useful diagnostic symptom for *P. ramorum* is the development of cankers on the trunk. Cankers have red-brown to black discoloration and seep dark black to red or amber sap. They usually develop 1 to 2 m off of the ground, although they can be at soil level, or as high as 4 m or greater.

Simplified Key to Soil Texture

(Adapted from Brewer and McCann 1982)

Place about three teaspoons of soil in the palm of your hand. Take out any particles ≥ 3 mm in size.

A. Does soil remain in ball when squeezed in your hand palm?

Yes, soil does remain in a ball when squeezed.....**B**

No, soil does not remain in a ball when squeezed.....**sand**

SAND Sand (class unknown)

Very coarse texture.....COSA Coarse sand

Moderately coarse texture.....MESN Medium sand

Moderately fine texture.....FISN Fine sand

B. Add a small amount of water until the soil feels like putty. Squeeze the ball between your thumb and forefinger, attempting to make a ribbon that you push up over your finger. Does soil make a ribbon?

Yes, soil makes a ribbon; though it may be very short.....**C**

No, soil does not make a ribbon.....**loamy sand**

Very gritty with coarse particles.....COLS Coarse, loamy sand

Moderately to slightly gritty with medium to fine particles.....MELS Medium to very fine, loamy sand

C. Does ribbon extend more than one inch?

Yes, soil extends > 1 inch.....**D**

No, soil does not extend > 1 inch.....Add excess water

Soil feels gritty or not smooth..... **sandy loam or loam**

LOAM Loam (class unknown)

Very gritty with coarse particles.....MCSL Moderately coarse, sandy loam

Moderately gritty with medium to fine particles.....MESA Medium to very fine, sandy loam

Slightly grittyMELO Medium loam

Soil feels very smooth.....**silt loam**

MESIL medium silt loam

D. Does ribbon extend more than 2 inches?

Yes, ribbon extends more than 2 inches, and does not crack if bent into a ring.....**E**

No, soil breaks when 1–2 inches long; cracks if bent into a ring.....Add excess water

Soil feels gritty or not smooth.....**sandy clay loam or clay loam**

Moderately to very gritty.....MFSA Moderately fine sandy clay loam

Slightly gritty or not smooth.....MFCL Moderately fine clay loam

Soil feels very smooth.....**silty clay loam or silt**

Moderately fine texture.....MFSL Moderately fine silty clay loam

Very fine texture.....MESI Medium silt
E. Soil makes a ribbon 2+ inches long; does not crack when bent into a ring.....
 Add excess water
 Soil feels gritty or not smooth.....**sandy clay or clay**
 Moderately to very gritty.....FISA Fine sandy clay
 Slightly gritty or not smooth.....FICL Fine clay
 CLAY Clay (class unknown)
 Soil feels very smooth.....**silty clay**
 FISC Fine silty clay

UNKN = UNKNOWN PEAT = PEAT MUCK = MUCK

APPENDIX B: TARGETED AND SAMPLED ALLIANCES AND ASSOCIATIONS

Appendix B. Targeted and Sampled Alliances and Associations.

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Tree	<i>Abies concolor</i>	N/A	25	53
Tree	<i>Abies concolor</i>	<i>Abies concolor – Calocedrus decurrens – Pinus jeffreyi</i>	N/A	3
Tree	<i>Abies concolor</i>	<i>Abies concolor – Calocedrus decurrens – Quercus kelloggii</i>	N/A	8
Tree	<i>Abies concolor</i>	<i>Abies concolor – Calocedrus decurrens / Symphoricarpos mollis</i>	N/A	4
Tree	<i>Abies concolor</i>	<i>Abies concolor – Pinus ponderosa / Amelanchier alnifolia</i>	N/A	3
Tree	<i>Abies concolor</i>	<i>Abies concolor – Pinus ponderosa / Cercocarpus ledifolius</i>	N/A	1
Tree	<i>Abies concolor</i>	<i>Abies concolor / Arctostaphylos nevadensis</i>	N/A	1
Tree	<i>Abies concolor</i>	<i>Abies concolor / Ceanothus prostratus</i>	N/A	2
Tree	<i>Abies concolor</i>	<i>Abies concolor / Ceanothus velutinus</i>	N/A	3
Tree	<i>Abies concolor</i>	<i>Abies concolor / Chimaphila spp. – Pyrola picta</i>	N/A	2
Tree	<i>Abies concolor</i>	<i>Abies concolor / Symphoricarpos mollis</i>	N/A	10
Tree	<i>Abies concolor</i>	Undefined Associations	N/A	16
Tree	<i>Abies concolor – Pinus lambertiana</i>	N/A	25	19
Tree	<i>Abies concolor – Pinus lambertiana</i>	<i>Abies concolor – Pinus lambertiana</i>	N/A	3
Tree	<i>Abies concolor – Pinus lambertiana</i>	<i>Abies concolor – Pinus lambertiana – Calocedrus decurrens – Quercus chrysolepis</i>	N/A	1
Tree	<i>Abies concolor – Pinus lambertiana</i>	<i>Abies concolor – Pinus lambertiana – Calocedrus decurrens / Adenocaulon bicolor</i>	N/A	1

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Tree	<i>Abies concolor</i> – <i>Pinus lambertiana</i>	<i>Abies concolor</i> – <i>Pinus lambertiana</i> – <i>Calocedrus decurrens</i> / <i>Chrysolepis sempervirens</i>	N/A	1
Tree	<i>Abies concolor</i> – <i>Pinus lambertiana</i>	<i>Abies concolor</i> – <i>Pinus lambertiana</i> – <i>Calocedrus decurrens</i> / <i>Cornus nuttallii</i> / <i>Corylus cornuta</i>	N/A	2
Tree	<i>Abies concolor</i> – <i>Pinus lambertiana</i>	<i>Abies concolor</i> – <i>Pinus lambertiana</i> – <i>Pinus jeffreyi</i>	N/A	2
Tree	<i>Abies concolor</i> – <i>Pinus lambertiana</i>	<i>Abies concolor</i> – <i>Pinus lambertiana</i> – <i>Pseudotsuga menziesii</i> / <i>Carex rossii</i>	N/A	4
Tree	<i>Abies concolor</i> – <i>Pinus lambertiana</i>	Undefined Associations	N/A	5
Tree	<i>Abies concolor</i> – <i>Pseudotsuga menziesii</i>	N/A	15	13
Tree	<i>Abies concolor</i> – <i>Pseudotsuga menziesii</i>	<i>Abies concolor</i> – <i>Pseudotsuga menziesii</i> – (mixed conifer) / <i>Acer circinatum</i> – <i>Chrysolepis sempervirens</i>	N/A	2
Tree	<i>Abies concolor</i> – <i>Pseudotsuga menziesii</i>	<i>Abies concolor</i> – <i>Pseudotsuga menziesii</i> – <i>Calocedrus decurrens</i>	N/A	3
Tree	<i>Abies concolor</i> – <i>Pseudotsuga menziesii</i>	<i>Abies concolor</i> – <i>Pseudotsuga menziesii</i> / <i>Cornus nuttallii</i>	N/A	2
Tree	<i>Abies concolor</i> – <i>Pseudotsuga menziesii</i>	<i>Abies concolor</i> – <i>Pseudotsuga menziesii</i> / <i>Cornus nuttallii</i> / <i>Corylus cornuta</i>	N/A	2
Tree	<i>Abies concolor</i> – <i>Pseudotsuga menziesii</i>	Undefined Associations	N/A	4
Tree	<i>Abies magnifica</i>	N/A	50	53
Tree	<i>Abies magnifica</i>	<i>Abies magnifica</i>	N/A	23

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Tree	<i>Abies magnifica</i>	<i>Abies magnifica</i> – (<i>Calocedrus decurrens</i>)	N/A	1
Tree	<i>Abies magnifica</i>	<i>Abies magnifica</i> – (<i>Pinus monticola</i>) / <i>Arctostaphylos nevadensis</i>	N/A	9
Tree	<i>Abies magnifica</i>	<i>Abies magnifica</i> – <i>Abies concolor</i>	N/A	1
Tree	<i>Abies magnifica</i>	<i>Abies magnifica</i> – <i>Abies concolor</i> – <i>Pinus jeffreyi</i>	N/A	1
Tree	<i>Abies magnifica</i>	<i>Abies magnifica</i> – <i>Abies concolor</i> / <i>Arctostaphylos nevadensis</i>	N/A	4
Tree	<i>Abies magnifica</i>	<i>Abies magnifica</i> – <i>Abies concolor</i> / <i>Pinus lambertiana</i>	N/A	1
Tree	<i>Abies magnifica</i>	<i>Abies magnifica</i> – <i>Pinus contorta</i> ssp. <i>murrayana</i>	N/A	1
Tree	<i>Abies magnifica</i>	<i>Abies magnifica</i> – <i>Pinus monticola</i>	N/A	1
Tree	<i>Abies magnifica</i>	<i>Abies magnifica</i> – <i>Pinus monticola</i> / <i>Chrysolepis sempervirens</i>	N/A	2
Tree	<i>Abies magnifica</i>	<i>Abies magnifica</i> / <i>Wyethia mollis</i>	N/A	1
Tree	<i>Abies magnifica</i>	Undefined Associations	N/A	8
Tree	<i>Acer macrophyllum</i>	N/A	5	3
Tree	<i>Acer macrophyllum</i>	<i>Acer macrophyllum</i> – <i>Pseudotsuga menziesii</i> / <i>Adenocaulon bicolor</i>	N/A	1
Tree	<i>Acer macrophyllum</i>	<i>Acer macrophyllum</i> – <i>Pseudotsuga menziesii</i> / <i>Corylus cornuta</i>	N/A	1
Tree	<i>Acer macrophyllum</i>	<i>Acer macrophyllum</i> / (<i>Rubus ursinus</i>)	N/A	1
Tree	<i>Alnus rhombifolia</i>	N/A	5	17
Tree	<i>Alnus rhombifolia</i>	<i>Alnus rhombifolia</i>	N/A	2
Tree	<i>Alnus rhombifolia</i>	<i>Alnus rhombifolia</i> – <i>Acer macrophyllum</i>	N/A	5
Tree	<i>Alnus rhombifolia</i>	<i>Alnus rhombifolia</i> – <i>Pseudotsuga menziesii</i> – <i>Calocedrus decurrens</i>	N/A	2
Tree	<i>Alnus rhombifolia</i>	<i>Alnus rhombifolia</i> – <i>Pseudotsuga menziesii</i> / <i>Darmera peltata</i>	N/A	1
Tree	<i>Alnus rhombifolia</i>	<i>Alnus rhombifolia</i> – <i>Salix laevigata</i>	N/A	2

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Tree	<i>Alnus rhombifolia</i>	<i>Alnus rhombifolia</i> / <i>Cornus sericea</i>	N/A	2
Tree	<i>Alnus rhombifolia</i>	<i>Alnus rhombifolia</i> / <i>Galium triflorum</i>	N/A	1
Tree	<i>Alnus rhombifolia</i>	Undefined Associations	N/A	2
Tree	<i>Calocedrus decurrens</i>	N/A	15	6
Tree	<i>Calocedrus decurrens</i>	<i>Calocedrus decurrens</i> – <i>Quercus chrysolepis</i> – <i>Quercus kelloggii</i>	N/A	3
Tree	<i>Calocedrus decurrens</i>	Undefined Associations	N/A	3
Tree	<i>Fraxinus latifolia</i>	N/A	20	17
Tree	<i>Fraxinus latifolia</i>	<i>Fraxinus latifolia</i>	N/A	4
Tree	<i>Fraxinus latifolia</i>	<i>Fraxinus latifolia</i> – <i>Alnus rhombifolia</i>	N/A	8
Tree	<i>Fraxinus latifolia</i>	<i>Fraxinus latifolia</i> / <i>Cornus sericea</i>	N/A	1
Tree	<i>Fraxinus latifolia</i>	Undefined Associations	N/A	4
Tree	<i>Hesperocyparis (sargentii, macnabiana)</i>	N/A	5	1
Tree	<i>Hesperocyparis (sargentii, macnabiana)</i>	Undefined Associations	N/A	1
Tree	<i>Hesperocyparis bakeri</i>	N/A	5	5
Tree	<i>Hesperocyparis bakeri</i>	<i>Hesperocyparis bakeri</i> / <i>Arctostaphylos patula</i>	N/A	3
Tree	<i>Hesperocyparis bakeri</i>	Undefined Associations	N/A	2
Tree	<i>Juniperus occidentalis</i>	N/A	20	25
Tree	<i>Juniperus occidentalis</i>	<i>Juniperus occidentalis</i> – (<i>Pinus jeffreyi</i> – <i>Pinus ponderosa</i>) / <i>Cercocarpus ledifolius</i>	N/A	6
Tree	<i>Juniperus occidentalis</i>	<i>Juniperus occidentalis</i> / <i>Artemisia tridentata</i> – <i>Purshia tridentata</i>	N/A	9

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Tree	<i>Juniperus occidentalis</i>	Undefined Associations	N/A	10
Tree	<i>Notholithocarpus densiflorus</i>	N/A	5	2
Tree	<i>Notholithocarpus densiflorus</i>	<i>Notholithocarpus densiflorus – Pinus ponderosa</i>	N/A	1
Tree	<i>Notholithocarpus densiflorus</i>	Undefined Associations	N/A	1
Tree	<i>Picea engelmannii</i>	N/A	3	0
Tree	<i>Pinus albicaulis</i>	N/A	5	15
Tree	<i>Pinus albicaulis</i>	<i>Pinus albicaulis – Tsuga mertensiana</i>	N/A	2
Tree	<i>Pinus albicaulis</i>	<i>Pinus albicaulis / Achnatherum occidentale ssp. californicum</i>	N/A	3
Tree	<i>Pinus albicaulis</i>	<i>Pinus albicaulis / Holodiscus discolor</i>	N/A	6
Tree	<i>Pinus albicaulis</i>	<i>Pinus albicaulis / Juniperus communis</i>	N/A	2
Tree	<i>Pinus albicaulis</i>	<i>Pinus albicaulis / Penstemon davidsonii</i>	N/A	1
Tree	<i>Pinus albicaulis</i>	Undefined Associations	N/A	1
Tree	<i>Pinus attenuata</i>	N/A	5	15
Tree	<i>Pinus attenuata</i>	<i>Pinus attenuata / Arctostaphylos patula</i>	N/A	11
Tree	<i>Pinus attenuata</i>	<i>Pinus attenuata / Quercus vacciniifolia</i>	N/A	1
Tree	<i>Pinus attenuata</i>	Undefined Associations	N/A	3
Tree	<i>Pinus contorta ssp. murrayana</i>	N/A	35	49
Tree	<i>Pinus contorta ssp. murrayana</i>	<i>Pinus contorta ssp. murrayana</i>	N/A	19
Tree	<i>Pinus contorta ssp. murrayana</i>	<i>Pinus contorta ssp. murrayana / Carex rossii</i>	N/A	7
Tree	<i>Pinus contorta ssp. murrayana</i>	<i>Pinus contorta ssp. murrayana / Carex spp.</i>	N/A	7
Tree	<i>Pinus contorta ssp. murrayana</i>	<i>Pinus contorta ssp. murrayana / Cistanthe umbellata</i>	N/A	1

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Tree	<i>Pinus contorta</i> ssp. <i>murrayana</i>	<i>Pinus contorta</i> ssp. <i>murrayana</i> / <i>Ligusticum grayi</i>	N/A	3
Tree	<i>Pinus contorta</i> ssp. <i>murrayana</i>	<i>Pinus contorta</i> ssp. <i>murrayana</i> / <i>Vaccinium cespitosum</i>	N/A	1
Tree	<i>Pinus contorta</i> ssp. <i>murrayana</i>	<i>Pinus contorta</i> ssp. <i>murrayana</i> / <i>Vaccinium uliginosum</i>	N/A	2
Tree	<i>Pinus contorta</i> ssp. <i>murrayana</i>	Undefined Associations	N/A	9
Tree	<i>Pinus jeffreyi</i>	N/A	25	28
Tree	<i>Pinus jeffreyi</i>	<i>Pinus jeffreyi</i>	N/A	1
Tree	<i>Pinus jeffreyi</i>	<i>Pinus jeffreyi</i> – <i>Abies concolor</i>	N/A	6
Tree	<i>Pinus jeffreyi</i>	<i>Pinus jeffreyi</i> – <i>Abies concolor</i> / <i>Symphoricarpos rotundifolius</i> / <i>Elymus elymoides</i>	N/A	2
Tree	<i>Pinus jeffreyi</i>	<i>Pinus jeffreyi</i> – <i>Abies magnifica</i>	N/A	2
Tree	<i>Pinus jeffreyi</i>	<i>Pinus jeffreyi</i> – <i>Calocedrus decurrens</i> / <i>Ceanothus cuneatus</i>	N/A	1
Tree	<i>Pinus jeffreyi</i>	<i>Pinus jeffreyi</i> / <i>Arctostaphylos nevadensis</i>	N/A	2
Tree	<i>Pinus jeffreyi</i>	<i>Pinus jeffreyi</i> / <i>Arctostaphylos patula</i> – <i>Ceanothus velutinus</i>	N/A	1
Tree	<i>Pinus jeffreyi</i>	<i>Pinus jeffreyi</i> / <i>Ceanothus prostratus</i>	N/A	1
Tree	<i>Pinus jeffreyi</i>	<i>Pinus jeffreyi</i> / <i>Chrysolepis sempervirens</i>	N/A	1
Tree	<i>Pinus jeffreyi</i>	<i>Pinus jeffreyi</i> / <i>Purshia tridentata</i> var. <i>tridentata</i>	N/A	2
Tree	<i>Pinus jeffreyi</i>	<i>Pinus jeffreyi</i> / <i>Purshia tridentata</i> var. <i>tridentata</i> / <i>Cercocarpus ledifolius</i> / <i>Achnatherum occidentale</i>	N/A	1
Tree	<i>Pinus jeffreyi</i>	Undefined Associations	N/A	8
Tree	<i>Pinus lambertiana</i>	N/A	5	8
Tree	<i>Pinus lambertiana</i>	<i>Abies magnifica</i>	N/A	2

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Tree	<i>Pinus lambertiana</i>	<i>Pinus Lambertiana – Chrysolepis chrysophylla / Quercus vacciniifolia – Quercus sadleriana</i>	N/A	1
Tree	<i>Pinus lambertiana</i>	Undefined Associations	N/A	5
Tree	<i>Pinus monticola</i>	N/A	15	12
Tree	<i>Pinus monticola</i>	<i>Pinus monticola – Pinus contorta ssp. murrayana</i>	N/A	3
Tree	<i>Pinus monticola</i>	<i>Pinus monticola / Arctostaphylos nevadensis</i>	N/A	4
Tree	<i>Pinus monticola</i>	Undefined Associations	N/A	5
Tree	<i>Pinus ponderosa</i>	N/A	40	54
Tree	<i>Pinus Ponderosa</i>	<i>Pinus ponderosa – Abies concolor</i>	N/A	3
Tree	<i>Pinus ponderosa</i>	<i>Pinus ponderosa – Abies magnifica</i>	N/A	2
Tree	<i>Pinus ponderosa</i>	<i>Pinus ponderosa – Pinus jeffreyi / Achnatherum occidentale</i>	N/A	1
Tree	<i>Pinus ponderosa</i>	<i>Pinus ponderosa / Arctostaphylos patula – Chamaebatia foliolosa</i>	N/A	2
Tree	<i>Pinus ponderosa</i>	<i>Pinus ponderosa / Artemisia tridentata</i>	N/A	1
Tree	<i>Pinus ponderosa</i>	<i>Pinus ponderosa / Bromus carinatus</i>	N/A	3
Tree	<i>Pinus ponderosa</i>	<i>Pinus ponderosa / Ceanothus prostratus</i>	N/A	2
Tree	<i>Pinus ponderosa</i>	<i>Pinus ponderosa / Ceanothus velutinus / Achnatherum nelsonii</i>	N/A	1
Tree	<i>Pinus ponderosa</i>	<i>Pinus ponderosa / Purshia tridentata var. tridentata</i>	N/A	5
Tree	<i>Pinus ponderosa</i>	<i>Pinus ponderosa / Purshia tridentata var. tridentata – Arctostaphylos patula / Achnatherum nelsonii</i>	N/A	1
Tree	<i>Pinus ponderosa</i>	Undefined Associations	N/A	33

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Tree	<i>Pinus ponderosa</i> – <i>Calocedrus decurrens</i> – <i>Pseudotsuga menziesii</i>	N/A	25	40
Tree	<i>Pinus ponderosa</i> – <i>Calocedrus decurrens</i> – <i>Pseudotsuga menziesii</i>	<i>Pinus ponderosa</i> – (<i>Calocedrus decurrens</i>) stream terrace	N/A	1
Tree	<i>Pinus ponderosa</i> – <i>Calocedrus decurrens</i> – <i>Pseudotsuga menziesii</i>	<i>Pinus ponderosa</i> – <i>Calocedrus decurrens</i> – <i>Quercus kelloggii</i>	N/A	3
Tree	<i>Pinus ponderosa</i> – <i>Calocedrus decurrens</i> – <i>Pseudotsuga menziesii</i>	<i>Pinus ponderosa</i> – <i>Calocedrus decurrens</i> (mixed conifer) / <i>Arctostaphylos</i> sp.– <i>Chamaebatia foliolosa</i>	N/A	2
Tree	<i>Pinus ponderosa</i> – <i>Calocedrus decurrens</i> – <i>Pseudotsuga menziesii</i>	<i>Pinus ponderosa</i> – <i>Calocedrus decurrens</i> / <i>Ceanothus prostratus</i>	N/A	8
Tree	<i>Pinus ponderosa</i> – <i>Calocedrus decurrens</i> – <i>Pseudotsuga menziesii</i>	<i>Pinus ponderosa</i> – <i>Pseudotsuga menziesii</i> – <i>Calocedrus decurrens</i>	N/A	6
Tree	<i>Pinus ponderosa</i> – <i>Calocedrus decurrens</i> – <i>Pseudotsuga menziesii</i>	<i>Pinus ponderosa</i> – <i>Pseudotsuga menziesii</i> – <i>Quercus chrysolepis</i> / <i>Galium bolanderi</i>	N/A	1
Tree	<i>Pinus ponderosa</i> – <i>Calocedrus decurrens</i> – <i>Pseudotsuga menziesii</i>	Undefined Associations	N/A	19
Tree	<i>Pinus ponderosa</i> / Shrub Understory	N/A	30	33

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Tree	<i>Pinus ponderosa</i> / Shrub Understory	<i>Abies concolor</i> – <i>Pinus ponderosa</i> / <i>Amelanchier alnifolia</i>	N/A	1
Tree	<i>Pinus ponderosa</i> / Shrub Understory	<i>Pinus ponderosa</i> / <i>Artemisia tridentata</i> ssp. <i>vaseyana</i> – <i>Purshia tridentata</i> var. <i>tridentata</i>	N/A	1
Tree	<i>Pinus ponderosa</i> / Shrub Understory	<i>Pinus ponderosa</i> – <i>Juniperus occidentalis</i> / <i>Artemisia tridentata</i> – <i>Purshia tridentata</i>	N/A	4
Tree	<i>Pinus ponderosa</i> / Shrub Understory	<i>Pinus ponderosa</i> / <i>Cercocarpus ledifolius</i> – <i>Purshia tridentata</i> var. <i>tridentata</i> / <i>Festuca idahoensis</i>	N/A	1
Tree	<i>Pinus ponderosa</i> / Shrub Understory	<i>Pinus ponderosa</i> – <i>Pinus jeffreyi</i> / <i>Achnatherum occidentale</i>	N/A	1
Tree	<i>Pinus ponderosa</i> / Shrub Understory	Undefined Associations	N/A	25
Tree	<i>Pinus sabiniana</i>	N/A	5	10
Tree	<i>Pinus sabiniana</i>	<i>Pinus sabiniana</i> / <i>Ceanothus cuneatus</i> – (<i>Rhamnus ilicifolia</i>)	N/A	3
Tree	<i>Pinus sabiniana</i>	Undefined Associations	N/A	7
Tree	<i>Populus tremuloides</i>	N/A	15	28
Tree	<i>Populus tremuloides</i>	<i>Populus tremuloides</i>	N/A	5
Tree	<i>Populus tremuloides</i>	<i>Populus tremuloides</i> – <i>Pinus contorta</i> / <i>Artemisia tridentata</i> / <i>Poa pratensis</i>	N/A	2
Tree	<i>Populus tremuloides</i>	<i>Populus tremuloides</i> / <i>Artemisia tridentata</i>	N/A	1
Tree	<i>Populus tremuloides</i>	<i>Populus tremuloides</i> / <i>Bromus carinatus</i>	N/A	2
Tree	<i>Populus tremuloides</i>	<i>Populus tremuloides</i> / dry graminoid	N/A	3
Tree	<i>Populus tremuloides</i>	<i>Populus tremuloides</i> / mesic forb	N/A	3

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Tree	<i>Populus tremuloides</i>	<i>Populus tremuloides</i> / <i>Poa pratensis</i>	N/A	1
Tree	<i>Populus tremuloides</i>	<i>Populus tremuloides</i> / <i>Prunus</i>	N/A	1
Tree	<i>Populus tremuloides</i>	<i>Populus tremuloides</i> / <i>Rosa woodsii</i>	N/A	1
Tree	<i>Populus tremuloides</i>	<i>Populus tremuloides</i> / <i>Symphoricarpos rotundifolius</i>	N/A	2
Tree	<i>Populus tremuloides</i>	<i>Populus tremuloides</i> / <i>Veratrum californicum</i>	N/A	4
Tree	<i>Populus tremuloides</i>	Undefined Associations	N/A	4
Tree	<i>Populus trichocarpa</i>	N/A	15	15
Tree	<i>Populus trichocarpa</i>	<i>Populus trichocarpa</i>	N/A	5
Tree	<i>Populus trichocarpa</i>	<i>Populus trichocarpa</i> – <i>Pinus jeffreyi</i>	N/A	2
Tree	<i>Populus trichocarpa</i>	<i>Populus trichocarpa</i> – <i>Salix lucida</i>	N/A	1
Tree	<i>Populus trichocarpa</i>	<i>Populus trichocarpa</i> / <i>Rhododendron occidentale</i>	N/A	1
Tree	<i>Populus trichocarpa</i>	<i>Populus trichocarpa</i> / <i>Salix lasiolepis</i>	N/A	2
Tree	<i>Populus trichocarpa</i>	Undefined Associations	N/A	3
Tree	<i>Pseudotsuga menziesii</i> – (<i>Notholithocarpus densiflorus</i> – <i>Arbutus menziesii</i>)	N/A	10	2
Tree	<i>Pseudotsuga menziesii</i> – (<i>Notholithocarpus densiflorus</i> – <i>Arbutus menziesii</i>)	Undefined Associations	N/A	2
Tree	<i>Quercus chrysolepis</i> (tree)	N/A	15	16
Tree	<i>Quercus chrysolepis</i> (tree)	<i>Quercus chrysolepis</i> – <i>Pinus ponderosa</i>	N/A	2
Tree	<i>Quercus chrysolepis</i> (tree)	<i>Quercus chrysolepis</i> – <i>Pinus sabiniana</i>	N/A	1

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Tree	<i>Quercus chrysolepis</i> (tree)	<i>Quercus chrysolepis</i> – <i>Quercus garryana</i> var. <i>garryana</i> / <i>Pentagramma triangularis</i>	N/A	1
Tree	<i>Quercus chrysolepis</i> (tree)	Undefined Associations	N/A	12
Tree	<i>Quercus douglasii</i>	N/A	5	9
Tree	<i>Quercus douglasii</i>	<i>Quercus douglasii</i> – <i>Pinus sabiniana</i> / grass	N/A	1
Tree	<i>Quercus douglasii</i>	<i>Quercus douglasii</i> – <i>Quercus wislizeni</i>	N/A	1
Tree	<i>Quercus douglasii</i>	<i>Quercus douglasii</i> / <i>Ceanothus cuneatus</i>	N/A	2
Tree	<i>Quercus douglasii</i>	<i>Quercus douglasii</i> / Mixed herbaceous	N/A	2
Tree	<i>Quercus douglasii</i>	Undefined Associations	N/A	3
Tree	<i>Quercus garryana</i> (tree)	N/A	10	30
Tree	<i>Quercus garryana</i> (tree)	<i>Quercus garryana</i> – <i>Quercus kelloggii</i> / <i>Toxicodendron diversilobum</i>	N/A	2
Tree	<i>Quercus garryana</i> (tree)	<i>Quercus garryana</i> / <i>Bromus carinatus</i>	N/A	1
Tree	<i>Quercus garryana</i> (tree)	<i>Quercus garryana</i> / <i>Ceanothus cuneatus</i> / <i>Festuca idahoensis</i>	N/A	8
Tree	<i>Quercus garryana</i> (tree)	<i>Quercus garryana</i> / <i>Toxicodendron diversilobum</i>	N/A	2
Tree	<i>Quercus garryana</i> (tree)	Undefined Associations	N/A	17
Tree	<i>Quercus kelloggii</i>	N/A	20	34
Tree	<i>Quercus kelloggii</i>	<i>Arctostaphylos patula</i> – <i>Quercus vacciniifolia</i>	N/A	1
Tree	<i>Quercus kelloggii</i>	<i>Quercus kelloggii</i> – <i>Calocedrus decurrens</i>	N/A	4
Tree	<i>Quercus kelloggii</i>	<i>Quercus kelloggii</i> – <i>Pinus ponderosa</i>	N/A	7
Tree	<i>Quercus kelloggii</i>	<i>Quercus kelloggii</i> – <i>Pseudotsuga menziesii</i>	N/A	4
Tree	<i>Quercus kelloggii</i>	<i>Quercus kelloggii</i> / <i>Arctostaphylos patula</i>	N/A	4

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Tree	<i>Quercus kelloggii</i>	<i>Quercus kelloggii</i> / <i>Ceanothus integerrimus</i>	N/A	5
Tree	<i>Quercus kelloggii</i>	<i>Quercus kelloggii</i> / <i>Toxicodendron diversilobum</i>	N/A	2
Tree	<i>Quercus kelloggii</i>	Undefined Associations	N/A	7
Tree	<i>Tsuga mertensiana</i>	N/A	15	23
Tree	<i>Tsuga mertensiana</i>	<i>Abies magnifica</i>	N/A	1
Tree	<i>Tsuga mertensiana</i>	<i>Tsuga mertensiana</i>	N/A	7
Tree	<i>Tsuga mertensiana</i>	<i>Tsuga mertensiana</i> – <i>Pinus contorta</i> ssp. <i>murrayana</i>	N/A	1
Tree	<i>Tsuga mertensiana</i>	<i>Tsuga mertensiana</i> – <i>Pinus monticola</i>	N/A	3
Tree	<i>Tsuga mertensiana</i>	<i>Tsuga mertensiana</i> / <i>Juncus parryi</i>	N/A	2
Tree	<i>Tsuga mertensiana</i>	<i>Tsuga mertensiana</i> / <i>Phyllodoce empetriformis</i>	N/A	1
Tree	<i>Tsuga mertensiana</i>	<i>Tsuga mertensiana</i> / steep	N/A	2
Tree	<i>Tsuga mertensiana</i>	Undefined Associations	N/A	6
Tree	<i>Umbellularia californica</i>	N/A	5	1
Tree	<i>Umbellularia californica</i>	Undefined Associations	N/A	1
Shrub	<i>Alnus incana</i>	N/A	15	34
Shrub	<i>Alnus incana</i>	<i>Alnus incana</i>	N/A	16
Shrub	<i>Alnus incana</i>	<i>Alnus incana</i> / bench	N/A	6
Shrub	<i>Alnus incana</i>	<i>Alnus incana</i> / <i>Glyceria elata</i>	N/A	6
Shrub	<i>Alnus incana</i>	Undefined Associations	N/A	6
Shrub	<i>Alnus viridis</i>	N/A	0	1
Shrub	<i>Alnus viridis</i>	<i>Alnus viridis</i>	N/A	1

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Shrub	<i>Arctostaphylos patula</i> – <i>Arctostaphylos nevadensis</i>	N/A	35	45
Shrub	<i>Arctostaphylos patula</i> – <i>Arctostaphylos nevadensis</i>	<i>Arctostaphylos nevadensis</i>	N/A	12
Shrub	<i>Arctostaphylos patula</i> – <i>Arctostaphylos nevadensis</i>	<i>Arctostaphylos patula</i>	N/A	16
Shrub	<i>Arctostaphylos patula</i> – <i>Arctostaphylos nevadensis</i>	<i>Arctostaphylos patula</i> – <i>Ceanothus velutinus</i> – <i>Ceanothus prostratus</i>	N/A	8
Shrub	<i>Arctostaphylos patula</i> – <i>Arctostaphylos nevadensis</i>	Undefined Associations	N/A	9
Shrub	<i>Arctostaphylos viscida</i>	N/A	5	3
Shrub	<i>Arctostaphylos viscida</i>	<i>Arctostaphylos viscida</i>	N/A	1
Shrub	<i>Arctostaphylos viscida</i>	Undefined Associations	N/A	2
Shrub	<i>Artemisia arbuscula</i> ssp. <i>arbuscula</i>	N/A	15	24
Shrub	<i>Artemisia arbuscula</i> ssp. <i>arbuscula</i>	<i>Artemisia arbuscula</i>	N/A	1
Shrub	<i>Artemisia arbuscula</i> ssp. <i>arbuscula</i>	<i>Artemisia arbuscula</i> – <i>Eriogonum (microthecum, sphaerocephalum)</i>	N/A	3
Shrub	<i>Artemisia arbuscula</i> ssp. <i>arbuscula</i>	<i>Artemisia arbuscula</i> / <i>Festuca idahoensis</i>	N/A	3
Shrub	<i>Artemisia arbuscula</i> ssp. <i>arbuscula</i>	<i>Artemisia arbuscula</i> / <i>Poa secunda</i>	N/A	13

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Shrub	<i>Artemisia arbuscula</i> ssp. <i>arbuscula</i>	Undefined Associations	N/A	4
Shrub	<i>Artemisia cana</i>	N/A	5	18
Shrub	<i>Artemisia cana</i>	<i>Artemisia cana</i> (ssp. <i>bolanderi</i> , ssp. <i>viscidula</i>) / <i>Poa secunda</i> Association	N/A	11
Shrub	<i>Artemisia cana</i>	<i>Artemisia cana</i> (ssp. <i>bolanderi</i> , ssp. <i>viscidula</i>) / <i>Poa secunda</i> Association	N/A	7
Shrub	<i>Artemisia tridentata</i>	N/A	10	7
Shrub	<i>Artemisia tridentata</i>	<i>Artemisia tridentata</i>	N/A	2
Shrub	<i>Artemisia tridentata</i>	<i>Artemisia tridentata</i> – (<i>Ericameria nauseosa</i>) / <i>Bromus tectorum</i>	N/A	1
Shrub	<i>Artemisia tridentata</i>	<i>Artemisia tridentata</i> – <i>Ericameria nauseosa</i>	N/A	1
Shrub	<i>Artemisia tridentata</i>	Undefined Associations	N/A	3
Shrub	<i>Artemisia tridentata</i> ssp. <i>vaseyana</i>	N/A	20	28
Shrub	<i>Artemisia tridentata</i> ssp. <i>vaseyana</i>	<i>Artemisia tridentata</i> – <i>Chrysothamnus viscidiflorus</i> / (<i>Poa secunda</i>)	N/A	1
Shrub	<i>Artemisia tridentata</i> ssp. <i>vaseyana</i>	<i>Artemisia tridentata</i> – <i>Purshia tridentata</i> / <i>Hesperostipa comata</i>	N/A	1
Shrub	<i>Artemisia tridentata</i> ssp. <i>vaseyana</i>	<i>Artemisia tridentata</i> ssp. <i>vaseyana</i>	N/A	5
Shrub	<i>Artemisia tridentata</i> ssp. <i>vaseyana</i>	<i>Artemisia tridentata</i> ssp. <i>vaseyana</i> – <i>Purshia tridentata</i> / <i>Festuca idahoensis</i>	N/A	4
Shrub	<i>Artemisia tridentata</i> ssp. <i>vaseyana</i>	<i>Artemisia tridentata</i> ssp. <i>vaseyana</i> – <i>Symphoricarpos rotundifolius</i> / <i>Bromus carinatus</i>	N/A	2

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Shrub	<i>Artemisia tridentata</i> ssp. <i>vaseyana</i>	<i>Artemisia tridentata</i> ssp. <i>vaseyana</i> / <i>Festuca idahoensis</i>	N/A	3
Shrub	<i>Artemisia tridentata</i> ssp. <i>vaseyana</i>	<i>Symphoricarpos rotundifolius</i>	N/A	2
Shrub	<i>Artemisia tridentata</i> ssp. <i>vaseyana</i>	Undefined Associations	N/A	10
Shrub	<i>Betula occidentalis</i>	N/A	3	0
Shrub	<i>Ceanothus cordulatus</i> – <i>Ceanothus integerrimus</i>	N/A	10	5
Shrub	<i>Ceanothus cordulatus</i> – <i>Ceanothus integerrimus</i>	<i>Ceanothus cordulatus</i>	N/A	3
Shrub	<i>Ceanothus cordulatus</i> – <i>Ceanothus integerrimus</i>	<i>Ceanothus integerrimus</i>	N/A	1
Shrub	<i>Ceanothus cordulatus</i> – <i>Ceanothus integerrimus</i>	Undefined Associations	N/A	1
Shrub	<i>Ceanothus cuneatus</i>	N/A	15	24
Shrub	<i>Ceanothus cuneatus</i>	<i>Ceanothus cuneatus</i>	N/A	6
Shrub	<i>Ceanothus cuneatus</i>	<i>Ceanothus cuneatus</i> – <i>Eriodictyon californicum</i> – (<i>Fremontodendron californicum</i>)	N/A	2
Shrub	<i>Ceanothus cuneatus</i>	<i>Ceanothus cuneatus</i> / <i>Eriophyllum lanatum</i>	N/A	1
Shrub	<i>Ceanothus cuneatus</i>	Undefined Associations	N/A	15
Shrub	<i>Ceanothus velutinus</i>	N/A	20	28
Shrub	<i>Ceanothus velutinus</i>	<i>Ceanothus velutinus</i>	N/A	12

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Shrub	<i>Ceanothus velutinus</i>	<i>Ceanothus velutinus</i> – <i>Prunus emarginata</i> – <i>Artemisia tridentata</i>	N/A	4
Shrub	<i>Ceanothus velutinus</i>	Undefined Associations	N/A	12
Shrub	<i>Cercocarpus ledifolius</i>	N/A	20	36
Shrub	<i>Cercocarpus ledifolius</i>	<i>Cercocarpus ledifolius</i>	N/A	11
Shrub	<i>Cercocarpus ledifolius</i>	<i>Cercocarpus ledifolius</i> – <i>Artemisia tridentata</i> ssp. <i>vaseyana</i>	N/A	8
Shrub	<i>Cercocarpus ledifolius</i>	<i>Cercocarpus ledifolius</i> / <i>Symphoricarpos rotundifolius</i>	N/A	5
Shrub	<i>Cercocarpus ledifolius</i>	Undefined Associations	N/A	12
Shrub	<i>Cercocarpus montanus</i>	N/A	5	8
Shrub	<i>Cercocarpus montanus</i>	<i>Cercocarpus montanus</i> – <i>Ceanothus cuneatus</i>	N/A	3
Shrub	<i>Cercocarpus montanus</i>	Undefined Associations	N/A	5
Shrub	<i>Chrysothamnus viscidiflorus</i>	N/A	5	12
Shrub	<i>Chrysothamnus viscidiflorus</i>	<i>Chrysothamnus viscidiflorus</i>	N/A	6
Shrub	<i>Chrysothamnus viscidiflorus</i>	Undefined Associations	N/A	6
Shrub	<i>Cornus sericea</i> – <i>Rosa woodsii</i> – <i>Ribes</i> spp.	N/A	10	3
Shrub	<i>Cornus sericea</i> – <i>Rosa woodsii</i> – <i>Ribes</i> spp.	<i>Cornus sericea</i>	N/A	3
Shrub	<i>Cytisus scoparius</i> – <i>Genista</i> <i>monspessulana</i> – <i>Cotoneaster</i> spp.	N/A	3	0
Shrub	<i>Ericameria bloomeri</i>	N/A	10	26
Shrub	<i>Ericameria bloomeri</i>	Undefined Associations	N/A	26

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Shrub	<i>Ericameria nauseosa</i>	N/A	10	19
Shrub	<i>Ericameria nauseosa</i>	<i>Ericameria nauseosa</i>	N/A	6
Shrub	<i>Ericameria nauseosa</i>	<i>Ericameria nauseosa / Bromus tectorum</i>	N/A	9
Shrub	<i>Ericameria nauseosa</i>	Undefined Associations	N/A	4
Shrub	<i>Notholithocarpus densiflorus</i> var. <i>echinoides</i>	N/A	5	0
Shrub	<i>Prunus emarginata</i> – <i>Holodiscus discolor</i>	N/A	20	24
Shrub	<i>Prunus emarginata</i> – <i>Holodiscus discolor</i>	<i>Holodiscus discolor</i>	N/A	6
Shrub	<i>Prunus emarginata</i> – <i>Holodiscus discolor</i>	<i>Prunus emarginata</i> Sierran	N/A	4
Shrub	<i>Prunus emarginata</i> – <i>Holodiscus discolor</i>	Undefined Associations	N/A	14
Shrub	<i>Prunus virginiana</i>	N/A	15	7
Shrub	<i>Prunus virginiana</i>	<i>Prunus subcordata</i>	N/A	3
Shrub	<i>Prunus virginiana</i>	<i>Prunus virginiana</i>	N/A	3
Shrub	<i>Prunus virginiana</i>	Undefined Associations	N/A	1
Shrub	<i>Purshia tridentata</i> – <i>Artemisia tridentata</i>	N/A	15	14
Shrub	<i>Purshia tridentata</i> – <i>Artemisia tridentata</i>	<i>Purshia tridentata</i>	N/A	2

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Shrub	<i>Purshia tridentata</i> – <i>Artemisia tridentata</i>	<i>Purshia tridentata</i> – <i>Artemisia tridentata</i>	N/A	4
Shrub	<i>Purshia tridentata</i> – <i>Artemisia tridentata</i>	<i>Purshia tridentata</i> – <i>Artemisia tridentata</i> / <i>Achnatherum hymenoides</i>	N/A	2
Shrub	<i>Purshia tridentata</i> – <i>Artemisia tridentata</i>	Undefined Associations	N/A	6
Shrub	<i>Quercus berberidifolia</i>	N/A	5	3
Shrub	<i>Quercus berberidifolia</i>	<i>Quercus berberidifolia</i> – <i>Ceanothus cuneatus</i>	N/A	1
Shrub	<i>Quercus berberidifolia</i>	Undefined Associations	N/A	2
Shrub	<i>Quercus garryana</i> (shrub)	N/A	10	9
Shrub	<i>Quercus garryana</i> (shrub)	<i>Quercus garryana</i> – <i>Arctostaphylos patula</i>	N/A	1
Shrub	<i>Quercus garryana</i> (shrub)	<i>Quercus garryana</i> – <i>Cercocarpus montanus</i>	N/A	2
Shrub	<i>Quercus garryana</i> (shrub)	<i>Quercus garryana</i> shrub	N/A	4
Shrub	<i>Quercus garryana</i> (shrub)	Undefined Associations	N/A	2
Shrub	<i>Quercus vacciniifolia</i> – <i>Chrysolepis sempervirens</i>	N/A	15	2
Shrub	<i>Quercus vacciniifolia</i> – <i>Chrysolepis sempervirens</i>	<i>Chrysolepis sempervirens</i>	N/A	1
Shrub	<i>Quercus vacciniifolia</i> – <i>Chrysolepis sempervirens</i>	Undefined Associations	N/A	1
Shrub	<i>Rubus armeniacus</i> – <i>Sesbania punicea</i> – <i>Ficus carica</i>	N/A	3	2

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Shrub	<i>Rubus armeniacus</i> – <i>Sesbania punicea</i> – <i>Ficus carica</i>	<i>Rubus armeniacus</i>	N/A	2
Shrub	<i>Salix boothii</i> – <i>Salix geyeriana</i> – <i>Salix lutea</i>	N/A	5	5
Shrub	<i>Salix boothii</i> – <i>Salix geyeriana</i> – <i>Salix lutea</i>	<i>Salix geyeriana</i> / grass	N/A	1
Shrub	<i>Salix boothii</i> – <i>Salix geyeriana</i> – <i>Salix lutea</i>	<i>Salix lucida</i> / Mesic graminoid	N/A	1
Shrub	<i>Salix boothii</i> – <i>Salix geyeriana</i> – <i>Salix lutea</i>	Undefined Associations	N/A	3
Shrub	<i>Salix eastwoodiae</i> – <i>Salix lemmonii</i>	N/A	15	18
Shrub	<i>Salix eastwoodiae</i> – <i>Salix lemmonii</i>	<i>Salix lemmonii</i> / mesic graminoid	N/A	2
Shrub	<i>Salix eastwoodiae</i> – <i>Salix lemmonii</i>	Undefined Associations	N/A	16
Shrub	<i>Salix exigua</i>	N/A	10	6
Shrub	<i>Salix exigua</i>	<i>Salix exigua</i>	N/A	3
Shrub	<i>Salix exigua</i>	<i>Salix exigua</i> / Mesic graminoids	N/A	2
Shrub	<i>Salix exigua</i>	Undefined Associations	N/A	1
Shrub	<i>Salix lasiolepis</i>	N/A	10	17
Shrub	<i>Salix lasiolepis</i>	<i>Salix lasiolepis</i>	N/A	7
Shrub	<i>Salix lasiolepis</i>	<i>Salix lasiolepis</i> – <i>Rubus</i> spp.	N/A	2

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Shrub	<i>Salix lasiolepis</i>	<i>Salix lasiolepis</i> – <i>Salix lucida</i>	N/A	2
Shrub	<i>Salix lasiolepis</i>	<i>Salix lasiolepis</i> / <i>Rosa woodsii</i> / Mixed Herbs	N/A	4
Shrub	<i>Salix lasiolepis</i>	Undefined Associations	N/A	2
Shrub	<i>Salix petrophila</i>	N/A	3	0
Shrub	<i>Vaccinium cespitosum</i>	N/A	5	0
Herb	<i>Agastache urticifolia</i> – <i>Geranium viscosissimum</i> – <i>Pteridium aquilinum</i>	N/A	10	11
Herb	<i>Agastache urticifolia</i> – <i>Geranium viscosissimum</i> – <i>Pteridium aquilinum</i>	Undefined Associations	N/A	11
Herb	<i>Allium</i> spp. – <i>Streptanthus</i> spp. – <i>Hesperolinon</i> spp. <i>Serpentinite</i>	N/A	5	0
Herb	<i>Anemopsis californica</i> – <i>Helianthus nuttallii</i> – <i>Solidago spectabilis</i>	N/A	5	0
Herb	<i>Aristida purpurea</i> – <i>Elymus elymoides</i> – <i>Poa secunda</i>	N/A	10	7
Herb	<i>Aristida purpurea</i> – <i>Elymus elymoides</i> – <i>Poa secunda</i>	<i>Elymus elymoides</i>	N/A	4
Herb	<i>Aristida purpurea</i> – <i>Elymus elymoides</i> – <i>Poa secunda</i>	Undefined Associations	N/A	3

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Herb	<i>Bidens cernua – Euthamia occidentalis – Ludwigia palustris</i>	N/A	10	2
Herb	<i>Bidens cernua – Euthamia occidentalis – Ludwigia palustris</i>	<i>Artemisia douglasiana</i>	N/A	1
Herb	<i>Bidens cernua – Euthamia occidentalis – Ludwigia palustris</i>	Undefined Associations	N/A	1
Herb	<i>Bistorta bistortoides – Mimulus primuloides</i>	N/A	5	5
Herb	<i>Bistorta bistortoides – Mimulus primuloides</i>	<i>Bistorta bistortoides – Mimulus primuloides</i>	N/A	5
Herb	<i>Carex breweri</i>	N/A	5	7
Herb	<i>Carex breweri</i>	<i>Carex breweri</i>	N/A	4
Herb	<i>Carex breweri</i>	<i>Carex breweri – Cistanthe umbellata</i>	N/A	3
Herb	<i>Carex helleri</i>	N/A	3	0
Herb	<i>Carex jonesii</i>	N/A	5	0
Herb	<i>Carex limosa – Carex simulata – Eleocharis quinqueflora</i>	N/A	15	4
Herb	<i>Carex limosa – Carex simulata – Eleocharis quinqueflora</i>	Undefined Associations	N/A	4
Herb	<i>Carex nudata</i>	N/A	5	4
Herb	<i>Carex nudata</i>	<i>Carex nudata</i>	N/A	4
Herb	<i>Carex utriculata – Calamagrostis canadensis</i>	N/A	40	38

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Herb	<i>Carex utriculata – Calamagrostis canadensis</i>	<i>Carex aquatilis</i>	N/A	1
Herb	<i>Carex utriculata – Calamagrostis canadensis</i>	<i>Carex aquatilis – Carex lenticularis</i>	N/A	11
Herb	<i>Carex utriculata – Calamagrostis canadensis</i>	<i>Carex pachystachya</i>	N/A	1
Herb	<i>Carex utriculata – Calamagrostis canadensis</i>	<i>Carex nebrascensis</i>	N/A	6
Herb	<i>Carex utriculata – Calamagrostis canadensis</i>	<i>Carex utriculata</i>	N/A	4
Herb	<i>Carex utriculata – Calamagrostis canadensis</i>	<i>Carex utriculata – Mimulus primuloides</i>	N/A	1
Herb	<i>Carex utriculata – Calamagrostis canadensis</i>	<i>Eleocharis macrostachya</i>	N/A	1
Herb	<i>Carex utriculata – Calamagrostis canadensis</i>	<i>Scirpus microcarpus</i>	N/A	3
Herb	<i>Carex utriculata – Calamagrostis canadensis</i>	Undefined Associations	N/A	10
Herb	<i>Ceratophyllum demersum</i> Aquatic	N/A	5	0
Herb	<i>Cynodon dactylon – Crypsis</i> spp. – <i>Paspalum</i> spp.	N/A	5	0
Herb	<i>Danthonia californica –</i> <i>Deschampsia cespitosa –</i> <i>Camassia quamash</i>	N/A	25	26

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Herb	<i>Danthonia californica</i> – <i>Deschampsia cespitosa</i> – <i>Camassia quamash</i>	<i>Carex integra</i>	N/A	1
Herb	<i>Danthonia californica</i> – <i>Deschampsia cespitosa</i> – <i>Camassia quamash</i>	<i>Danthonia californica</i>	N/A	1
Herb	<i>Danthonia californica</i> – <i>Deschampsia cespitosa</i> – <i>Camassia quamash</i>	<i>Danthonia californica</i> – <i>Muhlenbergia filiformis</i>	N/A	2
Herb	<i>Danthonia californica</i> – <i>Deschampsia cespitosa</i> – <i>Camassia quamash</i>	<i>Deschampsia cespitosa</i>	N/A	10
Herb	<i>Danthonia californica</i> – <i>Deschampsia cespitosa</i> – <i>Camassia quamash</i>	<i>Deschampsia cespitosa</i> – <i>Carex nebrascensis</i>	N/A	2
Herb	<i>Danthonia californica</i> – <i>Deschampsia cespitosa</i> – <i>Camassia quamash</i>	<i>Deschampsia cespitosa</i> – <i>Perideridia parishii</i>	N/A	1
Herb	<i>Danthonia californica</i> – <i>Deschampsia cespitosa</i> – <i>Camassia quamash</i>	<i>Hordeum brachyantherum</i> Montane	N/A	2
Herb	<i>Danthonia californica</i> – <i>Deschampsia cespitosa</i> – <i>Camassia quamash</i>	Undefined Associations	N/A	7
Herb	<i>Distichlis spicata</i> – (<i>Juncus cooperi</i> – <i>Frankenia salina</i>) Interior	N/A	5	6

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Herb	<i>Distichlis spicata</i> – (<i>Juncus cooperi</i> – <i>Frankenia salina</i>) Interior	<i>Distichlis spicata</i>	N/A	4
Herb	<i>Distichlis spicata</i> – (<i>Juncus cooperi</i> – <i>Frankenia salina</i>) Interior	Undefined Associations	N/A	2
Herb	<i>Equisetum (arvense, variegatum, hyemale)</i>	N/A	5	1
Herb	<i>Equisetum (arvense, variegatum, hyemale)</i>	Undefined Associations	N/A	1
Herb	<i>Eragrostis mexicana</i> ssp. <i>virescens</i>	N/A	5	1
Herb	<i>Eragrostis mexicana</i> ssp. <i>virescens</i>	<i>Epilobium brachycarpum</i>	N/A	1
Herb	<i>Eriogonum</i> spp. / <i>Poa secunda</i>	N/A	10	12
Herb	<i>Eriogonum</i> spp. / <i>Poa secunda</i>	<i>Eriogonum douglasii</i> / <i>Poa secunda</i>	N/A	1
Herb	<i>Eriogonum</i> spp. / <i>Poa secunda</i>	Undefined Associations	N/A	11
Herb	<i>Festuca idahoensis</i> – <i>Pseudoroegneria spicata</i> – <i>Poa secunda</i>	N/A	10	15
Herb	<i>Festuca idahoensis</i> – <i>Pseudoroegneria spicata</i> – <i>Poa secunda</i>	<i>Festuca idahoensis</i> – <i>Pseudoroegneria spicata</i>	N/A	3

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Herb	<i>Festuca idahoensis</i> – <i>Pseudoroegneria spicata</i> – <i>Poa secunda</i>	<i>Pseudoroegneria spicata</i> – <i>Poa secunda</i>	N/A	12
Herb	<i>Glyceria (elata, striata)</i>	N/A	10	1
Herb	<i>Glyceria (elata, striata)</i>	<i>Glyceria elata</i>	N/A	1
Herb	<i>Hydrilla verticillata</i> – <i>Myriophyllum spicatum</i>	N/A	3	2
Herb	<i>Hydrilla verticillata</i> – <i>Myriophyllum spicatum</i>	<i>Myriophyllum</i> spp. – <i>Egeria densa</i>	N/A	2
Herb	<i>Juncus arcticus</i> (var. <i>balticus</i>, <i>mexicanus</i>)	N/A	15	29
Herb	<i>Juncus arcticus</i> (var. <i>balticus</i> , <i>mexicanus</i>)	<i>Juncus arcticus</i> var. <i>balticus</i> – (var. <i>mexicanus</i>)	N/A	22
Herb	<i>Juncus arcticus</i> (var. <i>balticus</i> , <i>mexicanus</i>)	Undefined Associations	N/A	7
Herb	<i>Juncus drummondii</i> – <i>Juncus parryi</i> – <i>Sibbaldia procumbens</i>	N/A	10	1
Herb	<i>Juncus drummondii</i> – <i>Juncus parryi</i> – <i>Sibbaldia procumbens</i>	Undefined Associations	N/A	1
Herb	<i>Juncus (oxymeris, xiphioides)</i>	N/A	5	2
Herb	<i>Juncus (oxymeris, xiphioides)</i>	Undefined Associations	N/A	2
Herb	<i>Lasthenia fremontii</i> – <i>Downingia (bicornuta)</i>	N/A	3	6

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Herb	<i>Lasthenia fremontii</i> – <i>Downingia (bicornuta)</i>	<i>Downingia bicornuta</i>	N/A	3
Herb	<i>Lasthenia fremontii</i> – <i>Downingia (bicornuta)</i>	<i>Downingia (bicornuta, cuspidata)</i>	N/A	1
Herb	<i>Lasthenia fremontii</i> – <i>Downingia (bicornuta)</i>	Undefined Associations	N/A	2
Herb	<i>Leymus cinereus</i> – <i>Leymus triticoides</i>	N/A	10	6
Herb	<i>Leymus cinereus</i> – <i>Leymus triticoides</i>	<i>Leymus cinereus</i>	N/A	5
Herb	<i>Leymus cinereus</i> – <i>Leymus triticoides</i>	<i>Leymus triticoides</i>	N/A	1
Herb	<i>Navarretia leucocephala</i> ssp. <i>minima</i> – <i>Plagiobothrys cusickii</i>	N/A	15	43
Herb	<i>Navarretia leucocephala</i> ssp. <i>minima</i> – <i>Plagiobothrys cusickii</i>	<i>Navarretia</i> spp. – (<i>Eleocharis acicularis</i> – <i>Eryngium alismifolium</i>)	N/A	20
Herb	<i>Navarretia leucocephala</i> ssp. <i>minima</i> – <i>Plagiobothrys cusickii</i>	<i>Plagiobothrys mollis</i> – (<i>Eleocharis acicularis</i> – <i>Eryngium mathiasiae</i>)	N/A	2
Herb	<i>Navarretia leucocephala</i> ssp. <i>minima</i> – <i>Plagiobothrys cusickii</i>	<i>Polygonum polygaloides</i> – <i>Downingia bacigalupii</i>	N/A	4
Herb	<i>Navarretia leucocephala</i> ssp. <i>minima</i> – <i>Plagiobothrys cusickii</i>	<i>Taraxia tanacetifolia</i> – <i>Iva axillaris</i>	N/A	1
Herb	<i>Navarretia leucocephala</i> ssp. <i>minima</i> – <i>Plagiobothrys cusickii</i>	Undefined Associations	N/A	16

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Herb	<i>Oxypolis occidentalis</i>	N/A	5	4
Herb	<i>Oxypolis occidentalis</i>	<i>Oxypolis occidentalis – Bistorta bistortoides</i>	N/A	2
Herb	<i>Oxypolis occidentalis</i>	Undefined Associations	N/A	2
Herb	<i>Phalaris aquatica – Phalaris arundinacea</i>	N/A	5	4
Herb	<i>Phalaris aquatica – Phalaris arundinacea</i>	<i>Phalaris arundinacea</i>	N/A	4
Herb	<i>Phyllodoce empetriformis</i>	N/A	5	3
Herb	<i>Phyllodoce empetriformis</i>	Kalmia polifolia-Allium validum	N/A	1
Herb	<i>Phyllodoce empetriformis</i>	Undefined Associations	N/A	2
Herb	<i>Poa pratensis – Agrostis gigantea – Agrostis stolonifera</i>	N/A	15	10
Herb	<i>Poa pratensis – Agrostis gigantea – Agrostis stolonifera</i>	<i>Agrostis (gigantea, stolonifera)</i>	N/A	2
Herb	<i>Poa pratensis – Agrostis gigantea – Agrostis stolonifera</i>	<i>Poa pratensis</i>	N/A	3
Herb	<i>Poa pratensis – Agrostis gigantea – Agrostis stolonifera</i>	<i>Poa pratensis – Carex (nebrascensis, pellita)</i>	N/A	1
Herb	<i>Poa pratensis – Agrostis gigantea – Agrostis stolonifera</i>	<i>Poa pratensis – Potentilla gracilis</i>	N/A	3
Herb	<i>Poa pratensis – Agrostis gigantea – Agrostis stolonifera</i>	Undefined Associations	N/A	1

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Herb	<i>Poa secunda</i> – <i>Muhlenbergia richardsonis</i> – <i>Carex douglasii</i>	N/A	15	18
Herb	<i>Poa secunda</i> – <i>Muhlenbergia richardsonis</i> – <i>Carex douglasii</i>	<i>Muhlenbergia richardsonis</i>	N/A	9
Herb	<i>Poa secunda</i> – <i>Muhlenbergia richardsonis</i> – <i>Carex douglasii</i>	<i>Poa secunda</i> Moist	N/A	4
Herb	<i>Poa secunda</i> – <i>Muhlenbergia richardsonis</i> – <i>Carex douglasii</i>	<i>Poa secunda</i> ssp. <i>secunda</i>	N/A	1
Herb	<i>Poa secunda</i> – <i>Muhlenbergia richardsonis</i> – <i>Carex douglasii</i>	Undefined Associations	N/A	4
Herb	<i>Polygonum lapathifolium</i> – <i>Xanthium strumarium</i>	N/A	10	5
Herb	<i>Polygonum lapathifolium</i> – <i>Xanthium strumarium</i>	<i>Polygonum</i> (<i>amphibium</i> , <i>lapathifolium</i>)	N/A	4
Herb	<i>Polygonum lapathifolium</i> – <i>Xanthium strumarium</i>	Undefined Associations	N/A	1
Herb	<i>Schoenoplectus</i> (<i>acutus</i>, <i>californicus</i>)	N/A	10	13
Herb	<i>Schoenoplectus</i> (<i>acutus</i> , <i>californicus</i>)	<i>Schoenoplectus acutus</i>	N/A	7
Herb	<i>Schoenoplectus</i> (<i>acutus</i> , <i>californicus</i>)	<i>Schoenoplectus</i> (<i>acutus</i> , <i>californicus</i>) – <i>Typha</i> (<i>angustifolia</i> , <i>latifolia</i>)	N/A	2
Herb	<i>Schoenoplectus</i> (<i>acutus</i> , <i>californicus</i>)	Undefined Associations	N/A	4

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Herb	<i>Senecio triangularis</i> – <i>Veratrum californicum</i> – <i>Mimulus</i> spp.	N/A	30	20
Herb	<i>Senecio triangularis</i> – <i>Veratrum californicum</i> – <i>Mimulus</i> spp.	<i>Mimulus guttatus</i>	N/A	2
Herb	<i>Senecio triangularis</i> – <i>Veratrum californicum</i> – <i>Mimulus</i> spp.	<i>Veratrum californicum</i>	N/A	6
Herb	<i>Senecio triangularis</i> – <i>Veratrum californicum</i> – <i>Mimulus</i> spp.	<i>Veratrum californicum</i> – <i>Senecio triangularis</i>	N/A	8
Herb	<i>Senecio triangularis</i> – <i>Veratrum californicum</i> – <i>Mimulus</i> spp.	Undefined Associations	N/A	4
Herb	<i>Sparganium (angustifolium)</i>	N/A	3	3
Herb	<i>Sparganium (angustifolium)</i>	<i>Sparganium angustifolium</i>	N/A	2
Herb	<i>Sparganium (angustifolium)</i>	Undefined Associations	N/A	1
Herb	<i>Sporobolus airoides</i> – <i>Muhlenbergia asperifolia</i> – <i>Spartina gracilis</i>	N/A	5	0
Herb	<i>Stipa occidentalis</i>	N/A	10	35
Herb	<i>Stipa occidentalis</i>	Undefined Associations	N/A	35
Herb	<i>Torreyochloa pallida</i>	N/A	5	0
Herb	<i>Triantha occidentalis</i> – <i>Nartheccium californicum</i>	N/A	5	4
Herb	<i>Triantha occidentalis</i> – <i>Nartheccium californicum</i>	<i>Triantha occidentalis</i> – <i>Nartheccium californicum</i>	N/A	3

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Herb	<i>Triantha occidentalis</i> – <i>Nartheceum californicum</i>	Undefined Associations	N/A	1
Herb	<i>Trifolium longipes</i> – <i>Muhlenbergia filiformis</i>	N/A	5	5
Herb	<i>Trifolium longipes</i> – <i>Muhlenbergia filiformis</i>	<i>Trifolium longipes</i> – (<i>Muhlenbergia filiformis</i> – <i>Symphytotrichum</i> spp.)	N/A	1
Herb	<i>Trifolium longipes</i> – <i>Muhlenbergia filiformis</i>	Undefined Associations	N/A	4
Herb	<i>Typha (angustifolia, domingensis, latifolia)</i>	N/A	5	7
Herb	<i>Typha (angustifolia, domingensis, latifolia)</i>	<i>Schoenoplectus (acutus, californicus)</i> – <i>Typha (angustifolia, latifolia)</i>	N/A	2
Herb	<i>Typha (angustifolia, domingensis, latifolia)</i>	Undefined Associations	N/A	5
N/A	N/A	Total Targeted Alliances	1,242	1,424
N/A	Non-Targeted Alliance Types	N/A	N/A	N/A
Tree	<i>Aesculus californica</i>	N/A	N/A	1
Tree	<i>Pseudotsuga menziesii</i> – <i>Calocedrus decurrens</i>	N/A	N/A	14
Tree	<i>Quercus wislizeni</i> – <i>Quercus parvula</i> (tree)	N/A	N/A	3
Tree	<i>Salix gooddingii</i> – <i>Salix laevigata</i>	N/A	N/A	7
Tree	<i>Salix lucida</i> ssp. <i>lasiandra</i>	N/A	N/A	19
Shrub	<i>Acer circinatum</i>	N/A	N/A	2

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Shrub	<i>Amelanchier utahensis</i> – <i>Cercocarpus montanus</i> – <i>Cercocarpus intricatus</i>	N/A	N/A	2
Shrub	<i>Arctostaphylos (canescens,</i> <i>manzanita, stanfordiana)</i>	N/A	N/A	2
Shrub	<i>Artemisia nova</i>	N/A	N/A	1
Shrub	<i>Ceanothus cordulatus</i>	N/A	N/A	9
Shrub	<i>Ceanothus integerrimus</i>	N/A	N/A	6
Shrub	<i>Cephalanthus occidentalis</i> – <i>Rosa</i> <i>californica</i>	N/A	N/A	1
Shrub	<i>Chamaebatiaria millefolium</i>	N/A	N/A	2
Shrub	<i>Chrysolepis sempervirens</i>	N/A	N/A	6
Shrub	<i>Cornus nuttallii</i>	N/A	N/A	1
Shrub	<i>Cornus sericea</i>	N/A	N/A	7
Shrub	<i>Eriogonum marifolium</i>	N/A	N/A	4
Shrub	<i>Frangula californica</i>	N/A	N/A	1
Shrub	<i>Frangula rubra</i> ssp. <i>modocensis</i>	N/A	N/A	1
Shrub	<i>Garrya fremontii</i>	N/A	N/A	1
Shrub	<i>Lupinus chamissonis</i> – <i>Ericameria ericoides</i>	N/A	N/A	1
Shrub	<i>Phyllodoce breweri</i>	N/A	N/A	1
Shrub	<i>Prunus ilicifolia</i> – <i>Heteromeles</i> <i>arbutifolia</i> – <i>Ceanothus spinosus</i>	N/A	N/A	1

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Shrub	<i>Quercus vacciniifolia</i>	N/A	N/A	6
Shrub	<i>Rhododendron columbianum</i>	N/A	N/A	1
Shrub	<i>Rhus trilobata</i> – <i>Crataegus rivularis</i> – <i>Forestiera pubescens</i>	N/A	N/A	3
Shrub	<i>Ribes cereum</i>	N/A	N/A	4
Shrub	<i>Ribes quercetorum</i> – <i>Rhus trilobata</i> – <i>Frangula californica</i>	N/A	N/A	1
Shrub	<i>Salix hookeriana</i> – <i>Salix sitchensis</i> – <i>Spiraea douglasii</i>	N/A	N/A	2
Shrub	<i>Salix lemmonii</i>	N/A	N/A	1
Shrub	<i>Salix scouleriana</i>	N/A	N/A	3
Shrub	<i>Sarcobatus vermiculatus</i>	N/A	N/A	3
Shrub	<i>Spiraea douglasii</i>	N/A	N/A	6
Shrub	<i>Symphoricarpos albus</i> var. <i>laevigatus</i>	N/A	N/A	1
Shrub	<i>Vaccinium uliginosum</i>	N/A	N/A	2
Herb	<i>Achnatherum nelsonii</i> var. <i>dorei</i>	N/A	N/A	1
Herb	<i>Aconogonon davisiae</i>	N/A	N/A	2
Herb	<i>Aconogonon newberryi</i> – <i>Eriogonum pyrolifolium</i>	N/A	N/A	1
Herb	<i>Agropyron cristatum</i> – <i>Bromus inermis</i> – <i>Poa pratensis</i>	N/A	N/A	4

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Herb	<i>Agrostis idahoensis</i> – <i>Juncus balticus</i>	N/A	N/A	1
Herb	<i>Agrostis scabra</i>	N/A	N/A	1
Herb	<i>Amsinckia (menziesii, tessellata)</i> – <i>Phacelia</i> spp.	N/A	N/A	2
Herb	<i>Anemone occidentalis</i>	N/A	N/A	3
Herb	<i>Antennaria rosea</i>	N/A	N/A	1
Herb	<i>Apocynum cannabinum</i>	N/A	N/A	1
Herb	<i>Avena</i> spp. – <i>Bromus</i> spp.	N/A	N/A	2
Herb	<i>Brasenia schreberi</i> Aquatic	N/A	N/A	1
Herb	<i>Bromus carinatus</i> – <i>Elymus glaucus</i>	N/A	N/A	5
Herb	<i>Bromus tectorum</i> – <i>Taeniatherum caput-medusae</i>	N/A	N/A	18
Herb	<i>Carex (utriculata, vesicaria)</i>	N/A	N/A	13
Herb	<i>Carex comosa</i>	N/A	N/A	1
Herb	<i>Carex echinata</i>	N/A	N/A	2
Herb	<i>Carex lasiocarpa</i>	N/A	N/A	1
Herb	<i>Carex nebrascensis</i>	N/A	N/A	11
Herb	<i>Carex nigricans</i>	N/A	N/A	3
Herb	<i>Carex scopulorum</i>	N/A	N/A	2
Herb	<i>Carex simulata</i>	N/A	N/A	2

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Herb	<i>Carex spectabilis</i>	N/A	N/A	1
Herb	<i>Cistanthe (umbellata) – Gayophytum (diffusum)</i>	N/A	N/A	2
Herb	<i>Corethrogyne filaginifolia – Eriogonum (elongatum, nudum)</i>	N/A	N/A	1
Herb	<i>Damasonium californicum – Marsilea vestita</i>	N/A	N/A	2
Herb	<i>Danthonia intermedia</i>	N/A	N/A	2
Herb	<i>Darlingtonia californica</i>	N/A	N/A	1
Herb	<i>Deschampsia cespitosa – Hordeum brachyantherum – Danthonia californica</i>	N/A	N/A	4
Herb	<i>Deschampsia danthonioides</i>	N/A	N/A	3
Herb	<i>Diplacus tricolor</i>	N/A	N/A	1
Herb	<i>Downingia montana</i>	N/A	N/A	1
Herb	<i>Drosera alpina</i>	N/A	N/A	1
Herb	<i>Dulichium arundinaceum</i>	N/A	N/A	3
Herb	<i>Eleocharis (palustris, rostellata) Alkaline-Saline</i>	N/A	N/A	1
Herb	<i>Eleocharis bella</i>	N/A	N/A	1
Herb	<i>Eleocharis engelmannii</i>	N/A	N/A	1
Herb	<i>Eleocharis macrostachya</i>	N/A	N/A	15
Herb	<i>Eleocharis quinqueflora</i>	N/A	N/A	1

Appendix B. List of Targeted and Sampled Alliances and Associations

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Herb	<i>Elymus hispidus</i>	N/A	N/A	1
Herb	<i>Elymus multisetus</i>	N/A	N/A	2
Herb	<i>Eriogonum incanum</i> – <i>Hulsea nana</i>	N/A	N/A	1
Herb	<i>Eriogonum pyrolifolium</i>	N/A	N/A	3
Herb	<i>Eryngium alismifolium</i>	N/A	N/A	5
Herb	<i>Eryngium aristulatum</i>	N/A	N/A	9
Herb	<i>Festuca bromoides</i>	N/A	N/A	1
Herb	<i>Festuca idahoensis</i> – <i>Danthonia californica</i>	N/A	N/A	3
Herb	<i>Glyceria borealis</i>	N/A	N/A	2
Herb	<i>Gnaphalium palustre</i>	N/A	N/A	1
Herb	<i>Grindelia nana</i>	N/A	N/A	1
Herb	<i>Holcus lanatus</i> – <i>Anthoxanthum odoratum</i>	N/A	N/A	1
Herb	<i>Hordeum brachyantherum</i>	N/A	N/A	2
Herb	<i>Horkelia fusca</i>	N/A	N/A	3
Herb	<i>Iris missouriensis</i>	N/A	N/A	3
Herb	<i>Juncus (effusus, patens)</i> – <i>Carex (pansa, praeegracilis)</i>	N/A	N/A	5
Herb	<i>Juncus howellii</i>	N/A	N/A	1
Herb	<i>Juncus macrandrus</i>	N/A	N/A	1

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Herb	<i>Juncus nevadensis</i>	N/A	N/A	11
Herb	<i>Juncus orthophyllus</i>	N/A	N/A	1
Herb	<i>Juncus parryi</i>	N/A	N/A	4
Herb	<i>Lasthenia californica</i> – <i>Plantago erecta</i> – <i>Vulpia microstachys</i>	N/A	N/A	1
Herb	<i>Lasthenia glaberrima</i> – <i>Eleocharis macrostachya</i>	N/A	N/A	20
Herb	<i>Lolium perenne</i>	N/A	N/A	1
Herb	<i>Lomatium bicolor</i> var. <i>leptocarpum</i>	N/A	N/A	1
Herb	<i>Lotus scoparius</i> – <i>Lupinus albifrons</i> – <i>Eriodictyon</i> spp.	N/A	N/A	1
Herb	<i>Lupinus angustiflorus</i>	N/A	N/A	1
Herb	<i>Lupinus argenteus</i> – <i>Monardella odoratissima</i>	N/A	N/A	1
Herb	<i>Lupinus lepidus</i>	N/A	N/A	1
Herb	<i>Lupinus obtusilobus</i>	N/A	N/A	10
Herb	<i>Menyanthes trifoliata</i>	N/A	N/A	2
Herb	<i>Muhlenbergia filiformis</i>	N/A	N/A	6
Herb	<i>Muhlenbergia jonesii</i>	N/A	N/A	1
Herb	<i>Nassella</i> spp. – <i>Melica</i> spp.	N/A	N/A	5
Herb	<i>Navarretia heterandra</i>	N/A	N/A	1

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Herb	<i>Navarretia intertexta</i>	N/A	N/A	1
Herb	<i>Nuphar</i> spp. – <i>Potamogeton</i> spp. – <i>Lemna</i> spp. Freshwater Aquatic	N/A	N/A	13
Herb	<i>Penstemon davidsonii</i>	N/A	N/A	3
Herb	<i>Penstemon gracilentus</i>	N/A	N/A	1
Herb	<i>Penstemon heterodoxus</i>	N/A	N/A	2
Herb	<i>Penstemon newberryi</i>	N/A	N/A	2
Herb	<i>Penstemon rydbergii</i>	N/A	N/A	1
Herb	<i>Perideridia kelloggii</i>	N/A	N/A	2
Herb	<i>Perideridia parishii</i>	N/A	N/A	1
Herb	<i>Poa bulbosa</i>	N/A	N/A	1
Herb	<i>Poa cusickii</i>	N/A	N/A	1
Herb	<i>Poa palustris</i>	N/A	N/A	1
Herb	<i>Pyrrocoma racemosa</i>	N/A	N/A	1
Herb	<i>Ranunculus alismifolius</i> var. <i>alismellus</i>	N/A	N/A	2
Herb	<i>Ranunculus aquatilis</i> – <i>Callitriche</i> <i>palustris</i> – <i>Callitriche heterophylla</i>	N/A	N/A	5
Herb	<i>Rumex californicus</i>	N/A	N/A	1
Herb	<i>Sabulina douglasii</i>	N/A	N/A	2
Herb	<i>Sagittaria cuneata</i>	N/A	N/A	1
Herb	<i>Saxifraga tolmiei</i>	N/A	N/A	2

Primary Lifeform	Alliance Name	Association Name	Sample Target	Total Sampled
Herb	<i>Solidago canadensis</i>	N/A	N/A	1
Herb	<i>Stipa nelsonii</i> var. <i>dorei</i>	N/A	N/A	2
Herb	<i>Symphotrichum bracteolatum</i>	N/A	N/A	2
Herb	<i>Thermopsis californica</i> var. <i>argentata</i>	N/A	N/A	1
Non-Vascular	Liverwort seral alliance	N/A	N/A	1
		Total Non-Targeted Alliances	N/A	408
		Total Sampled Alliances	N/A	1,832

N/A denotes not applicable.

APPENDIX C: LIST OF VOUCHER SPECIMENS SUBMITTED TO THE JEPSON HERBARIUM

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium.

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Agavaceae (Century-plant Family)	<i>Hastingsia alba</i>	White hastingsia	SCMO-SBS- 0526	N/A	Native	Forb/herb
Agavaceae (Century-plant Family)	<i>Hastingsia alba</i>	White hastingsia	SCMO- VNLC-0564	N/A	Native	Forb/herb
Alismataceae (Water-plantain Family)	<i>Damasonium californicum</i>	California damsonium	SCMO-SBS- 0828	N/A	Native	Forb/herb
Alismataceae (Water-plantain Family)	<i>Damasonium californicum</i>	California damsonium	SCMO- VNLC-1139	N/A	Native	Forb/herb
Alismataceae (Water-plantain Family)	<i>Alisma triviale</i>	Northern water plantain	SCMO-SBS- 0844	N/A	Native	Forb/herb
Alliaceae (Asparagus Family)	<i>Allium campanulatum</i>	Dusky onion	SCMO- VNLC-0256	N/A	Native	Forb/herb
Alliaceae (Asparagus Family)	<i>Allium amplexens</i>	Narrow leaved onion	SCMO-SBS- 0621	N/A	Native	Forb/herb
Alliaceae (Asparagus Family)	<i>Allium amplexens</i>	Narrow leaved onion	SCMO- VNLC-0151	N/A	Native	Forb/herb

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Alliaceae (Asparagus Family)	<i>Allium falcifolium</i>	Sickle leaf onion	SCMO-SBS-0835	N/A	Native	Forb/herb
Apiaceae (Carrot Family)	<i>Eryngium alismifolium</i>	Coyote thistle	SCMO-SBS-0828	N/A	Native	Forb/herb
Apiaceae (Carrot Family)	<i>Torilis arvensis</i>	Field hedge parsley	SCMO-VNLC-0512	Cal-IPC Moderate	Naturalized	Forb/herb
Apiaceae (Carrot Family)	<i>Ligusticum grayi</i>	Gray's lovage	SCMO-SBS-0353	N/A	Native	Forb/herb
Apiaceae (Carrot Family)	<i>Lomatium macrocarpum</i>	Large fruited lomatium	SCMO-SBS-0513	N/A	Native	Forb/herb
Apiaceae (Carrot Family)	<i>Perideridia lemmonii</i>	Lemmon's yampah	SCMO-VNLC-0151	N/A	Native	Forb/herb
Apiaceae (Carrot Family)	<i>Perideridia lemmonii</i>	Lemmon's yampah	SCMO-VNLC-0955	N/A	Native	Forb/herb
Apiaceae (Carrot Family)	<i>Lomatium triternatum</i>	Lewis's lomatium	SCMO-SBS-0401	N/A	Native	Forb/herb
Apiaceae (Carrot Family)	<i>Perideridia parishii</i>	Parish's yampah	SCMO-VNLC-0040	N/A	Native	Forb/herb

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Apiaceae (Carrot Family)	<i>Lomatium nudicaule</i>	Pestle lomatium	SCMO-SBS-0401	N/A	Native	Forb/herb
Apiaceae (Carrot Family)	<i>Lomatium nudicaule</i>	Pestle lomatium	SCMO-VNLC-0825	N/A	Native	Forb/herb
Apiaceae (Carrot Family)	<i>Sanicula bipinnatifida</i>	Purple sanicle	SCMO-VNLC-0512	N/A	Native	Forb/herb
Apiaceae (Carrot Family)	<i>Osmorhiza berteroi</i>	Sweet cicely	SCMO-VNLC-0576	N/A	Native	Forb/herb
Apiaceae (Carrot Family)	<i>Perideridia kelloggii</i>	Yampah	SCMO-VNLC-0561	N/A	Native	Forb/herb
Apiaceae (Carrot Family)	<i>Perideridia kelloggii</i>	Yampah	SCMO-VNLC-0819	N/A	Native	Forb/herb
Apocynaceae (Dogbane Family)	<i>Cycladenia humilis</i>	Cycladenia	SCMO-VNLC-0050	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Senecio hydrophilus</i>	Alkali marsh ragwort	SCMO-VNLC-0453	N/A	Native	Subshrub, Forb/herb
Asteraceae (Aster Family)	<i>Antennaria media</i>	Alpine pussytoes	SCMO-SBS-0363	N/A	Native	Forb/herb

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Asteraceae (Aster Family)	<i>Ericameria bloomeri</i>	Bloomer's goldenbrush	SCMO- VNLC-0275	N/A	Native	Shrub
Asteraceae (Aster Family)	<i>Artemisia cana</i> ssp. <i>bolanderi</i>	Bolander's silver sagebrush	SCMO-SBS- 0830	N/A	Native	Subshrub, Shrub
Asteraceae (Aster Family)	<i>Senecio</i> <i>aronicoides</i>	Butterweed	SCMO- VNLC-0179	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Arnica chamissonis</i>	Chamisso arnica	SCMO-SBS- 0843	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Arnica chamissonis</i>	Chamisso arnica	SCMO- VNLC-0433	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Arnica mollis</i>	Cordilleran arnica	SCMO-SBS- 0353	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Antennaria</i> <i>dimorpha</i>	Gray cushion pussytoes	SCMO-SBS- 0513	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Arnica cordifolia</i>	Heart leaved arnica	Outside of SCMO plot	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Dieteria canescens</i> var. <i>canescens</i>	Hoary aster	SCMO- VNLC-0443	N/A	Native	Forb/herb

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Asteraceae (Aster Family)	<i>Grindelia nana</i>	Idaho gumweed	SCMO-SBS-0574	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Stephanomeria lactucina</i>	Large flowered stephanomeria	SCMO-VNLC-0503	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Madia citriodora</i>	Lemon scented tarweed	SCMO-VNLC-0513	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Artemisia arbuscula</i> ssp. <i>arbuscula</i>	Low sagebrush	SCMO-VNLC-0508	N/A	Native	Subshrub, Shrub
Asteraceae (Aster Family)	<i>Madia glomerata</i>	Mountain tarweed	SCMO-VNLC-0508	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Wyethia angustifolia</i>	Narrow leaved mule ears	Outside of SCMO plot	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Centromadia parryi</i> ssp. <i>rudis</i>	Pappose tarweed	SCMO-VNLC-0617	CRPR 4.2	Native	Forb/herb
Asteraceae (Aster Family)	<i>Oreostemma elatum</i>	Plumas alpine aster	SCMO-VNLC-1171	CRPR 1B.2	Native	Forb/herb
Asteraceae (Aster Family)	<i>Antennaria rosea</i> ssp. <i>rosea</i>	Rosy pussytoes	SCMO-SBS-0529	N/A	Native	Forb/herb

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Asteraceae (Aster Family)	<i>Arnica longifolia</i>	Seep spring arnica	SCMO-SBS- 0722	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Dieteria canescens</i> var. <i>shastensis</i>	Shasta aster	SCMO-SBS- 0351	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Uropappus lindleyi</i>	Silver puffs	SCMO- VNLC-0512	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Antennaria</i> <i>argentea</i>	Silvery everlasting	SCMO- VNLC-0512	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Agoseris retrorsa</i>	Spear leaved agoseris	SCMO- VNLC-0512	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Chrysothamnus</i> <i>viscidiflorus</i> ssp. <i>viscidiflorus</i>	Sticky leaved rabbitbrush	SCMO- VNLC-0262	N/A	Native	Shrub
Asteraceae (Aster Family)	<i>Erigeron filifolius</i>	Threadleaf fleabane	SCMO-SBS- 0512	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Oreostemma</i> <i>alpigenum</i> var. <i>andersonii</i>	Tundra aster	SCMO- VNLC-0728	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Oreostemma</i> <i>alpigenum</i> var. <i>andersonii</i>	Tundra aster	SCMO- VNLC-1195	N/A	Native	Forb/herb

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Asteraceae (Aster Family)	<i>Chaenactis glabriuscula</i> var. <i>heterocarpha</i>	Variable fruited yellow chaenactis	SCMO-VNLC-0462	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Erigeron elegantulus</i>	Volcanic daisy	SCMO-SBS-0847	CRPR 4.3	Native	Forb/herb
Asteraceae (Aster Family)	<i>Symphyotrichum spathulatum</i> var. <i>yosemitanum</i>	Western bog aster	SCMO-SBS-0385	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Symphyotrichum spathulatum</i> var. <i>spathulatum</i>	Western mountain aster	SCMO-SBS-0721	N/A	Native	Forb/herb
Asteraceae (Aster Family)	<i>Achillea millefolium</i>	Yarrow	Outside of SCMO plot	N/A	Native	Forb/herb
Boraginaceae (Borage Family)	<i>Cryptantha flaccida</i>	Beaked cryptantha	SCMO-VNLC-0517	N/A	Native	Forb/herb
Boraginaceae (Borage Family)	<i>Sonnea hispidia</i>	Cascade popcornflower	SCMO-VNLC-0182	N/A	Native	Forb/herb
Boraginaceae (Borage Family)	<i>Plagiobothrys stipitatus</i> var. <i>micranthus</i>	Common vernal pool allocarya	SCMO-VNLC-0827	N/A	Native	Forb/herb
Boraginaceae (Borage Family)	<i>Plagiobothrys cusickii</i>	Cusick's popcorn flower	SCMO-SBS-0828	N/A	Native	Forb/herb

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Boraginaceae (Borage Family)	<i>Plagiobothrys mollis</i>	Downy popcorn flower	SCMO-SBS- 0828	N/A	Native	Forb/herb
Boraginaceae (Borage Family)	<i>Cryptantha crinita</i>	Silky cryptantha	SCMO- VNLC-0135	CRPR 1B.2	Native	Forb/herb
Boraginaceae (Borage Family)	<i>Cryptantha torreyana</i>	Torrey's cryptantha	SCMO- VNLC-0506	N/A	Native	Forb/herb
Boraginaceae (Borage Family)	<i>Cryptantha torreyana</i>	Torrey's cryptantha	SCMO- VNLC-0513	N/A	Native	Forb/herb
Boraginaceae (Borage Family)	<i>Cryptantha torreyana</i> var. <i>torreyana</i>	Torrey's cryptantha	SCMO-SBS- 0522	N/A	Native	Forb/herb
Brassicaceae (Mustard Family)	<i>Thysanocarpus radians</i>	Showy fringe pod	SCMO- VNLC-0371	N/A	Native	Forb/herb
Brassicaceae (Mustard Family)	<i>Barbarea orthoceras</i>	Winter cress	SCMO- VNLC-0506	N/A	Native	Forb/herb
Campanulaceae (Bellflower Family)	<i>Downingia bacigalupii</i>	Bach's downingia	SCMO- VNLC-0173	N/A	Native	Forb/herb
Campanulaceae (Bellflower Family)	<i>Downingia bacigalupii</i>	Bach's downingia	SCMO- VNLC-0827	N/A	Native	Forb/herb

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Campanulaceae (Bellflower Family)	<i>Downingia bicornuta</i> var. <i>bicornuta</i>	Bristled downingia	SCMO- VNLC-0827	N/A	Native	Forb/herb
Campanulaceae (Bellflower Family)	<i>Porterella carnosula</i>	Porterella	SCMO- VNLC-0433	N/A	Native	Forb/herb
Caprifoliaceae (Honeysuckle Family)	<i>Lonicera interrupta</i>	Chaparral honeysuckle	SCMO- VNLC-0512	N/A	Native	Vine, Shrub
Chenopodiaceae (Goosefoot Family)	<i>Chenopodium rubrum</i>	Red goosefoot	SCMO- VNLC-0489	N/A	Native	Forb/herb
Crassulaceae (Stonecrop Family)	<i>Sedum spathulifolium</i>	Pacific stonecrop	SCMO- VNLC-0461	N/A	Native	Forb/herb
Cyperaceae (Sedge Family)	<i>Carex utriculata</i>	Beaked sedge	SCMO-SBS- 0526	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex utriculata</i>	Beaked sedge	SCMO- VNLC-1004	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex utriculata</i>	Beaked sedge	SCMO- VNLC-0534	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex nigricans</i>	Black alpine sedge	SCMO-SBS- 0353	N/A	Native	Graminoid

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Cyperaceae (Sedge Family)	<i>Carex nigricans</i>	Black alpine sedge	SCMO-SBS- 0363	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex echinata</i> ssp. <i>echinata</i>	Bristle fruit sedge	SCMO-SBS- 0521	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex buxbaumii</i>	Buxbaum's sedge	SCMO- VNLC-0511	CRPR 4.2	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex cusickii</i>	Cusick's sedge	SCMO- VNLC-0292	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Eleocharis engelmannii</i>	Engelmann's spikerush	SCMO- VNLC-0451	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex lenticularis</i> var. <i>lipocarpa</i>	Fat fruited sedge	SCMO- VNLC-1192	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Eleocharis quinqueflora</i>	Fewflower spikerush	SCMO- VNLC-0827	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex feta</i>	Green sheathed sedge	SCMO-SBS- 0520	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex feta</i>	Green sheathed sedge	SCMO- VNLC-0285	N/A	Native	Graminoid

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Cyperaceae (Sedge Family)	<i>Carex hassei</i>	Hasse's sedge	SCMO-SBS-0526	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex lenticularis</i> var. <i>impressa</i>	Lakeshore sedge	SCMO-VNLC-0040	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex phaeocephala</i>	Mountain hare sedge	SCMO-SBS-0380	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex angustata</i>	Narrow leaved sedge	SCMO-VNLC-0759	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Eleocharis acicularis</i> var. <i>acicularis</i>	Needle spike rush	SCMO-SBS-0353	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex rossii</i>	Ross' sedge	SCMO-VNLC-0510	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex simulata</i>	Short beaked sedge	SCMO-VNLC-0533	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex spectabilis</i>	Showy sedge	SCMO-SBS-0385	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex nervina</i>	Sierra nerved sedge	SCMO-SBS-0541	N/A	Native	Graminoid

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Cyperaceae (Sedge Family)	<i>Carex athrostachya</i>	Slender leaved sedge	SCMO-SBS- 0529	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex athrostachya</i>	Slender leaved sedge	SCMO- VNLC-0301	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex athrostachya</i>	Slender leaved sedge	SCMO- VNLC-1036	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex filifolia</i>	Thread leaf sedge	SCMO- VNLC-0264	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Dulichium arundinaceum</i> var. <i>arundinaceum</i>	Three-way sedge	SCMO- VNLC-1122	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Schoenoplectus acutus</i> var. <i>occidentalis</i>	Tule	SCMO- VNLC-0674	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex whitneyi</i>	Whitney's sedge	SCMO- VNLC-0253	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex luzulina</i>	Wood rush sedge	SCMO-SBS- 0353	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex lasiocarpa</i>	Woolly fruited sedge	SCMO- VNLC-1070	CRPR 2B.3	Native	Graminoid

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Cyperaceae (Sedge Family)	<i>Carex pellita</i>	Woolly sedge	SCMO-SBS-0526	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex pellita</i>	Woolly sedge	SCMO-VNLC-0301	N/A	Native	Graminoid
Cyperaceae (Sedge Family)	<i>Carex pellita</i>	Woolly sedge	SCMO-VNLC-0501	N/A	Native	Graminoid
Droseraceae (Sundew Family)	<i>Drosera rotundifolia</i>	Round leaved sundew	SCMO-VNLC-0463	N/A	Native	Forb/herb
Droseraceae (Sundew Family)	<i>Drosera rotundifolia</i>	Round leaved sundew	SCMO-VNLC-0945	N/A	Native	Forb/herb
Ericaceae (Heath Family)	<i>Chimaphila umbellata</i>	Blake's prince's pine	SCMO-VNLC-0056	N/A	Native	Subshrub
Ericaceae (Heath Family)	<i>Chimaphila umbellata</i>	Blake's prince's pine	SCMO-VNLC-0431	N/A	Native	Subshrub
Ericaceae (Heath Family)	<i>Arctostaphylos patula</i>	Green leaf manzanita	SCMO-VNLC-0466	N/A	Native	Shrub
Ericaceae (Heath Family)	<i>Chimaphila menziesii</i>	Little prince's pine	SCMO-VNLC-0443	N/A	Native	Subshrub

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Ericaceae (Heath Family)	<i>Leucothoe davisiae</i>	Sierra laurel	SCMO- VNLC-0056	N/A	Native	Shrub
Ericaceae (Heath Family)	<i>Pyrola dentata</i>	Toothed wintergreen	SCMO- VNLC-0252	N/A	Native	Forb/herb
Ericaceae (Heath Family)	<i>Pyrola dentata</i>	Toothed wintergreen	SCMO- VNLC-0432	N/A	Native	Forb/herb
Ericaceae (Heath Family)	<i>Pyrola dentata</i>	Toothed wintergreen	SCMO- VNLC-0448	N/A	Native	Forb/herb
Ericaceae (Heath Family)	<i>Rhododendron columbianum</i>	Western Labrador tea	SCMO- VNLC-0055	N/A	Native	Shrub
Fabaceae (Pea Family)	<i>Astragalus curvicaupus</i> var. <i>curvicaupus</i>	Curved pod milk vetch	SCMO-SBS- 0827	N/A	Native	Forb/herb
Fabaceae (Pea Family)	<i>Trifolium longipes</i> ssp. <i>hansenii</i>	Hansen's clover	SCMO- VNLC-0024	N/A	Native	Forb/herb
Fabaceae (Pea Family)	<i>Astragalus californicus</i>	Klamath milk vetch	SCMO-SBS- 0522	N/A	Native	Forb/herb
Fabaceae (Pea Family)	<i>Lupinus breweri</i> var. <i>bryoides</i>	Matted Brewer's lupine	SCMO- VNLC-0179	N/A	Native	Forb/herb, Subshrub

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Fabaceae (Pea Family)	<i>Astragalus filipes</i>	Narrow pod locoweed	SCMO- VNLC-0515	N/A	Native	Forb/herb
Fabaceae (Pea Family)	<i>Hosackia pinnata</i>	Pinnate lotus	SCMO- VNLC-0819	N/A	Native	Forb/herb
Fabaceae (Pea Family)	<i>Acmispon nevadensis</i> var. <i>nevadensis</i>	Sierra Nevada lotus	SCMO- VNLC-0253	N/A	Native	Forb/herb
Fabaceae (Pea Family)	<i>Lupinus albifrons</i> var. <i>albifrons</i>	Silver bush lupine	SCMO-SBS- 0404	N/A	Native	Subshrub, Shrub
Fabaceae (Pea Family)	<i>Lupinus lepidus</i> var. <i>sellulus</i>	Stool lupine	SCMO-SBS- 0522	N/A	Native	Forb/herb
Fabaceae (Pea Family)	<i>Lupinus lepidus</i> var. <i>sellulus</i>	Stool lupine	SCMO- VNLC-0703	N/A	Native	Forb/herb
Fabaceae (Pea Family)	<i>Lupinus lepidus</i>	Tidy lupine	SCMO-SBS- 0411	N/A	Native	Forb/herb
Fabaceae (Pea Family)	<i>Lupinus lepidus</i>	Tidy lupine	SCMO- VNLC-0262	N/A	Native	Forb/herb
Fabaceae (Pea Family)	<i>Lathyrus lanszwertii</i> var. <i>tracyi</i>	Tracy's Nevada pea	SCMO-SBS- 0518	N/A	Native	Vine, Forb/herb

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Fabaceae (Pea Family)	<i>Astragalus whitneyi</i> <i>var. confusus</i>	Whitney's milk vetch	SCMO- VNLC-0300	N/A	Native	Forb/herb
Fagaceae (Beech Family)	<i>Quercus douglasii</i> × <i>Quercus garryana</i>	Blue oak × Oregon oak hybrid	SCMO- VNLC-0383	N/A	Native	Tree
Gentianaceae (Gentian Family)	<i>Zeltnera exaltata</i>	Cancha lagua	SCMO- VNLC-0488	N/A	Native	Forb/herb
Gentianaceae (Gentian Family)	<i>Zeltnera venusta</i>	Charming centaury	SCMO- VNLC-0489	N/A	Native	Forb/herb
Gentianaceae (Gentian Family)	<i>Gentiana newberryi</i> <i>var. tiogana</i>	Sierra alpine gentian	SCMO- VNLC-0728	N/A	Native	Forb/herb
Hydrophyllaceae (Borage Family)	<i>Nemophila</i> <i>heterophylla</i>	Canyon nemophila	SCMO- VNLC-0127	N/A	Native	Forb/herb
Hydrophyllaceae (Borage Family)	<i>Phacelia egea</i>	Rock phacelia	SCMO- VNLC-0122	N/A	Native	Forb/herb
Juncaceae (Rush Family)	<i>Juncus confusus</i>	Colorado rush	SCMO- VNLC-0827	N/A	Native	Graminoid
Juncaceae (Rush Family)	<i>Juncus howellii</i>	Howell's rush	SCMO- VNLC-0506	N/A	Native	Graminoid

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Juncaceae (Rush Family)	<i>Juncus howellii</i>	Howell's rush	SCMO- VNLC-0942	N/A	Native	Graminoid
Juncaceae (Rush Family)	<i>Juncus macrandrus</i>	Long anthered rush	SCMO- VNLC-0816	N/A	Native	Graminoid
Juncaceae (Rush Family)	<i>Juncus macrandrus</i>	Long anthered rush	SCMO- VNLC-0827	N/A	Native	Graminoid
Juncaceae (Rush Family)	<i>Juncus nevadensis</i> <i>var. nevadensis</i>	Nevada or Sierran rush	SCMO-SBS- 0828	N/A	Native	Graminoid
Juncaceae (Rush Family)	<i>Juncus nevadensis</i> <i>var. nevadensis</i>	Nevada or Sierran rush	SCMO- VNLC-0944	N/A	Native	Graminoid
Lamiaceae (Mint Family)	<i>Scutellaria nana</i>	Little skullcap	SCMO- VNLC-0182	CRPR 3.3	Native	Forb/herb
Lamiaceae (Mint Family)	<i>Scutellaria</i> <i>antirrhinoides</i>	Snapdragon skullcap	SCMO-SBS- 0830	N/A	Native	Forb/herb
Liliaceae (Lily Family)	<i>Calochortus</i> <i>monophyllus</i>	Yellow star tulip	SCMO- VNLC-0368	N/A	Native	Forb/herb
Liliaceae (Lily Family)	<i>Calochortus</i> <i>monophyllus</i>	Yellow star tulip	SCMO- VNLC-0464	N/A	Native	Forb/herb

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Linaceae (Flax Family)	<i>Hesperolinon micranthum</i>	Small flower western flax	SCMO-VNLC-0513	N/A	Native	Forb/herb
Malvaceae (Mallow Family)	<i>Iliamna bakeri</i>	Baker's globe mallow	SCMO-VNLC-0756	CRPR 4.2	Native	Forb/herb
Marsileaceae (Water-clover Family)	<i>Marsilea vestita</i> ssp. <i>vestita</i>	Hairy pepperwort	SCMO-SBS-0843	N/A	Native	Forb/herb
Melanthiaceae (False-hellebore Family)	<i>Toxicoscordion venenosum</i> var. <i>venenosum</i>	Meadow deathcamas	SCMO-SBS-0513	N/A	Native	Forb/herb
Montiaceae (Miner's Lettuce Family)	<i>Calyptridium monospermum</i>	One seeded pussypaws	SCMO-VNLC-0462	N/A	Native	Forb/herb
Nonvascular (Liverwort)	<i>Marchantia polymorpha</i>	Common Liverwort	SCMO-VNLC-0510	N/A	Native	Liverwort
Nonvascular (Liverwort)	<i>Marchantia polymorpha</i>	Common Liverwort	SCMO-VNLC-0510b	N/A	Native	Liverwort
Nonvascular (Moss)	<i>Funaria hygrometrica</i>	Common Cord-Moss	SCMO-VNLC-0510	N/A	Native	Moss
Onagraceae (Evening Primrose Family)	<i>Oenothera cespitosa</i>	Fragrant evening-primrose	SCMO-SBS-0425	N/A	Native	Forb/herb

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Onagraceae (Evening Primrose Family)	<i>Clarkia gracilis</i> ssp. <i>gracilis</i>	Graceful clarkia	Outside of SCMO plot	N/A	Native	Forb/herb
Onagraceae (Evening Primrose Family)	<i>Clarkia lassenensis</i>	Lassen clarkia	SCMO- VNLC-0512	N/A	Native	Forb/herb
Onagraceae (Evening Primrose Family)	<i>Clarkia lassenensis</i>	Lassen clarkia	SCMO- VNLC-0825	N/A	Native	Forb/herb
Onagraceae (Evening Primrose Family)	<i>Gayophytum diffusum</i> ssp. <i>Parviflorum</i>	Small flowered groundsmoke	SCMO-SBS- 0717	N/A	Native	Forb/herb
Onagraceae (Evening Primrose Family)	<i>Epilobium brachycarpum</i>	Willow herb	SCMO- VNLC-0508	N/A	Native	Forb/herb
Onagraceae (Evening Primrose Family)	<i>Epilobium brachycarpum</i>	Willow herb	SCMO- VNLC-0533	N/A	Native	Forb/herb
Onagraceae (Evening Primrose Family)	<i>Epilobium ciliatum</i> ssp. <i>ciliatum</i>	Willow herb	SCMO- VNLC-0504	N/A	Native	Forb/herb
Orobanchaceae (Broom-rape Family)	<i>Castilleja tenuis</i>	Hairy owl's clover	SCMO-SBS- 0522	N/A	Native	Forb/herb
Orobanchaceae (Broom-rape Family)	<i>Castilleja lassenensis</i>	Lassen paintbrush	SCMO- VNLC-0728	CRPR 1B.3	Native	Forb/herb

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Phrymaceae (Lopseed Family)	<i>Erythranthe breweri</i>	Brewer's monkeyflower	SCMO- VNLC-0066	N/A	Native	Forb/herb
Phrymaceae (Lopseed Family)	<i>Diplacus kelloggii</i>	Kellogg's monkeyflower	SCMO- VNLC-0464	N/A	Native	Forb/herb
Phrymaceae (Lopseed Family)	<i>Erythranthe glaucescens</i>	shield-bracted monkeyflower	SCMO- VNLC-0278	CRPR 4.3	Native	Forb/herb
Plantaginaceae (Plantain Family)	<i>Collinsia parviflora</i>	Few flowered blue eyed mary	SCMO- VNLC-0186	N/A	Native	Forb/herb
Plantaginaceae (Plantain Family)	<i>Penstemon rydbergii</i> var. <i>oreocharis</i>	Meadow beardtongue	SCMO- VNLC-0024	N/A	Native	Subshrub, Forb/herb
Plantaginaceae (Plantain Family)	<i>Penstemon rydbergii</i> var. <i>oreocharis</i>	Meadow beardtongue	SCMO- VNLC-0300	N/A	Native	Subshrub, Forb/herb
Plantaginaceae (Plantain Family)	<i>Penstemon laetus</i> var. <i>sagittatus</i>	Mountain blue penstemon	SCMO-SBS- 0518	N/A	Native	Forb/herb
Plantaginaceae (Plantain Family)	<i>Penstemon laetus</i> var. <i>sagittatus</i>	Mountain blue penstemon	SCMO-SBS- 0706	N/A	Native	Forb/herb
Plantaginaceae (Plantain Family)	<i>Penstemon deustus</i>	Rock penstemon	SCMO-SBS- 0515	N/A	Native	Subshrub, Forb/herb

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Plantaginaceae (Plantain Family)	<i>Penstemon deustus</i> var. <i>deustus</i>	Scabland penstemon	SCMO-SBS- 0511	N/A	Native	Subshrub, Forb/herb
Plantaginaceae (Plantain Family)	<i>Penstemon</i> <i>heterodoxus</i> var. <i>shastensis</i>	Shasta beardtongue	SCMO-SBS- 0529	CRPR 4.3	Native	Forb/herb
Plantaginaceae (Plantain Family)	<i>Penstemon</i> <i>heterodoxus</i> var. <i>shastensis</i>	Shasta beardtongue	SCMO-SBS- 0326	CRPR 4.3	Native	Forb/herb
Plantaginaceae (Plantain Family)	<i>Penstemon</i> <i>speciosus</i>	Showy penstemon	SCMO-SBS- 0515	N/A	Native	Forb/herb
Plantaginaceae (Plantain Family)	<i>Penstemon</i> <i>gracilentus</i>	Slender beardtongue	SCMO- VNLC-0179	N/A	Native	Subshrub, Forb/herb
Plantaginaceae (Plantain Family)	<i>Penstemon</i> <i>gracilentus</i>	Slender beardtongue	SCMO- VNLC-0347	N/A	Native	Subshrub, Forb/herb
Poaceae (Grass Family)	<i>Melica subulata</i>	Alaska melic	SCMO-SBS- 0527	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Deschampsia</i> <i>danthonioides</i>	Annual hairgrass	SCMO- VNLC-0152	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Elymus multisetus</i>	Big squirreltail grass	SCMO- VNLC-0512	N/A	Native	Graminoid

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Poaceae (Grass Family)	<i>Festuca idahoensis</i>	Blue fescue	SCMO- VNLC-0515	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Elymus × hansenii</i>	Blue wild rye x Squirreltail grass or Big squirreltail grass hybrid	SCMO- VNLC-0506	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Bromus sitchensis</i> var. <i>carinatus</i>	California brome	SCMO- VNLC-0512	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Stipa occidentalis</i> var. <i>californica</i>	California needle grass	SCMO-SBS- 0522	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Stipa occidentalis</i> var. <i>californica</i>	California needle grass	SCMO-SBS- 0528	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Stipa occidentalis</i> var. <i>californica</i>	California needle grass	SCMO- VNLC-0436	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Stipa occidentalis</i> var. <i>californica</i>	California needle grass	SCMO- VNLC-0505	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Glyceria striata</i>	Fowl mannagrass	SCMO- VNLC-0187	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Danthonia</i> <i>intermedia</i> ssp. <i>intermedia</i>	Intermediate oat grass	SCMO-SBS- 0353	N/A	Native	Graminoid

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Poaceae (Grass Family)	<i>Muhlenbergia jonesii</i>	Jones' muhly	SCMO-SBS-0318	CRPR 4.3	Native	Graminoid
Poaceae (Grass Family)	<i>Muhlenbergia jonesii</i>	Jones' muhly	SCMO-VNLC-0436	CRPR 4.3	Native	Graminoid
Poaceae (Grass Family)	<i>Stipa lemmonii</i> var. <i>lemmonii</i>	Lemmon's needle grass	SCMO-VNLC-0512	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Poa leptocoma</i>	Marsh bluegrass	SCMO-VNLC-0501	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Agrostis variabilis</i>	Mountain bentgrass	SCMO-VNLC-0510	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Vahlodea atropurpurea</i>	Mountain hairgrass	SCMO-SBS-0368	CRPR 4.3	Native	Graminoid
Poaceae (Grass Family)	<i>Trisetum spicatum</i>	Narrow oatgrass	SCMO-SBS-0353	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Trisetum canescens</i>	Nodding trisetum	Outside of SCMO plot	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Bromus orcuttianus</i>	Orcutt's brome grass	SCMO-VNLC-0502	N/A	Native	Graminoid

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Poaceae (Grass Family)	<i>Muhlenbergia richardsonis</i>	Richardson's muhly	SCMO-VNLC-0300	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Agrostis scabra</i>	Rough bentgrass	SCMO-VNLC-0489	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Agrostis scabra</i>	Rough bentgrass	SCMO-VNLC-0510	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Muhlenbergia asperifolia</i>	Scratchgrass	SCMO-VNLC-0533	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Poa cusickii</i> ssp. <i>Epilis</i>	Skyline bluegrass	SCMO-SBS-0365	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Poa cusickii</i> ssp. <i>Epilis</i>	Skyline bluegrass	SCMO-SBS-0380	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Muhlenbergia filiformis</i>	Slender muhly	SCMO-VNLC-0506	N/A	Native	Graminoid
Poaceae (Grass Family)	<i>Orcuttia tenuis</i>	Slender orcutt grass	SCMO-VNLC-1112	CRPR 1B.1	Native	Graminoid
Poaceae (Grass Family)	<i>Arrhenatherum elatius</i>	Tall oatgrass	SCMO-VNLC-0817	N/A	Naturalized	Graminoid

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Poaceae (Grass Family)	<i>Ventenata dubia</i>	Ventenata grass	SCMO- VNLC-0516	Cal-IPC Watch	Naturalized	Graminoid
Polemoniaceae (Phlox Family)	<i>Navarretia subuligera</i>	Awl leaved navarretia	SCMO- VNLC-0151	CRPR 4.3	Native	Forb/herb
Polemoniaceae (Phlox Family)	<i>Gilia capitata</i> ssp. <i>capitata</i>	Blue field gilia	SCMO- VNLC-0825	N/A	Native	Forb/herb
Polemoniaceae (Phlox Family)	<i>Navarretia intertexta</i> ssp. <i>intertexta</i>	Interwoven navarretia	SCMO- VNLC-0151	N/A	Native	Forb/herb
Polemoniaceae (Phlox Family)	<i>Allophyllum divaricatum</i>	Purple false gilia	SCMO- VNLC-0513	N/A	Native	Forb/herb
Polemoniaceae (Phlox Family)	<i>Navarretia heterandra</i>	Tehama navarretia	SCMO- VNLC-1104	CRPR 4.3	Native	Forb/herb
Polygalaceae (Milkwort Family)	<i>Rhinotropis cornuta</i> var. <i>cornuta</i>	Sierra Milkwort	SCMO- VNLC-0065	N/A	Native	Subshrub, Forb/herb
Polygonaceae (Buckwheat Family)	<i>Bistorta bistortoides</i>	American bistort	SCMO- VNLC-0564	N/A	Native	Forb/herb
Polygonaceae (Buckwheat Family)	<i>Eriogonum strictum</i> var. <i>anserinum</i>	Blue mountain buckwheat	SCMO-SBS- 0703	N/A	Native	Forb/herb

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Polygonaceae (Buckwheat Family)	<i>Eriogonum ovalifolium</i> var. <i>nivale</i>	Cushion buckwheat	SCMO-SBS-0703	N/A	Native	Subshrub, Forb/herb
Polygonaceae (Buckwheat Family)	<i>Eriogonum ovalifolium</i> var. <i>nivale</i>	Cushion buckwheat	SCMO-VNLC-0722	N/A	Native	Subshrub, Forb/herb
Polygonaceae (Buckwheat Family)	<i>Eriogonum douglasii</i> var. <i>meridionale</i>	Douglas' buckwheat	SCMO-SBS-0827	N/A	Native	Forb/herb
Polygonaceae (Buckwheat Family)	<i>Polygonum douglasii</i>	Douglas' knotweed	SCMO-VNLC-0506	N/A	Native	Forb/herb
Polygonaceae (Buckwheat Family)	<i>Eriogonum incanum</i>	Frosted buckwheat	SCMO-VNLC-1043	N/A	Native	Subshrub, Forb/herb
Polygonaceae (Buckwheat Family)	<i>Eriogonum nudum</i> var. <i>pubiflorum</i>	Hairy flowered buckwheat	SCMO-SBS-0703	N/A	Native	Subshrub, Forb/herb
Polygonaceae (Buckwheat Family)	<i>Polygonum polygaloides</i> ssp. <i>kelloggii</i>	Kellogg's knotweed	SCMO-VNLC-0508	N/A	Native	Forb/herb
Polygonaceae (Buckwheat Family)	<i>Eriogonum umbellatum</i> var. <i>dumosum</i>	Many flowered sulfur flower	SCMO-SBS-0706	N/A	Native	Forb/herb
Polygonaceae (Buckwheat Family)	<i>Eriogonum marifolium</i> var. <i>cupulatum</i>	Marum leaved buckwheat	SCMO-SBS-1126	CRPR PPD	Native	Subshrub, Forb/herb

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Polygonaceae (Buckwheat Family)	<i>Eriogonum marifolium</i> var. <i>marifolium</i>	Marum leaved buckwheat	SCMO-VNLC-0262	N/A	Native	Subshrub, Forb/herb
Polygonaceae (Buckwheat Family)	<i>Eriogonum marifolium</i> var. <i>marifolium</i>	Marum leaved buckwheat	SCMO-VNLC-0262b	N/A	Native	Subshrub, Forb/herb
Polygonaceae (Buckwheat Family)	<i>Polygonum parryi</i>	Parry's knotweed	SCMO-VNLC-0506	N/A	Native	Forb/herb
Polygonaceae (Buckwheat Family)	<i>Eriogonum sphaerocephalum</i> var. <i>halimioides</i>	Round headed buckwheat	SCMO-VNLC-0516	N/A	Native	Subshrub, Shrub
Polygonaceae (Buckwheat Family)	<i>Eriogonum umbellatum</i>	Sulphur buckwheat	Outside of SCMO plot	N/A	Native	Subshrub, Shrub, Forb/herb
Polygonaceae (Buckwheat Family)	<i>Eriogonum umbellatum</i>	Sulphur buckwheat	SCMO-VNLC-0508	N/A	Native	Subshrub, Shrub, Forb/herb
Polygonaceae (Buckwheat Family)	<i>Eriogonum umbellatum</i> var. <i>modocense</i>	Sulphur flower buckwheat	SCMO-VNLC-0733	N/A	Native	Forb/herb, Subshrub
Polygonaceae (Buckwheat Family)	<i>Eriogonum vimineum</i>	Wicker stemmed eriogonum	SCMO-SBS-0703	N/A	Native	Forb/herb
Potamogetonaceae (Pondweed Family)	<i>Potamogeton natans</i>	Floating leaved pondweed	SCMO-VNLC-0958	N/A	Native	Forb/herb

Appendix C. List of Voucher Specimens Collected and Submitted to the Jepson Herbarium

Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Potamogetonaceae (Pondweed Family)	<i>Potamogeton epihydrus</i>	Ribbonleaf pondweed	SCMO- VNLC-1070	CRPR, 2B.2	Native	Forb/herb
Potamogetonaceae (Pondweed Family)	<i>Potamogeton richardsonii</i>	Richardson's pondweed	SCMO- VNLC-1198	N/A	Native	Forb/herb
Ranunculaceae (Buttercup Family)	<i>Delphinium nudicaule</i>	Canyon larkspur	SCMO- VNLC-0127	N/A	Native	Forb/herb
Ranunculaceae (Buttercup Family)	<i>Ranunculus canus</i> var. <i>canus</i>	Hartweg's buttercup	SCMO- VNLC-0467	N/A	Native	Forb/herb
Ranunculaceae (Buttercup Family)	<i>Delphinium nuttallianum</i>	Nuttall's larkspur	SCMO-SBS- 0517	N/A	Native	Forb/herb
Rosaceae (Rose Family)	<i>Rubus laciniatus</i>	Cut leaved blackberry	Outside of SCMO plot	N/A	Naturalized	Vine, Subshrub
Rosaceae (Rose Family)	<i>Spiraea douglasii</i>	Douglas spiraea	SCMO- VNLC-0051	N/A	Native	Shrub
Rosaceae (Rose Family)	<i>Horkelia tridentata</i> var. <i>tridentata</i>	Three toothed horkelia	Outside of SCMO plot	N/A	Native	Forb/herb
Rosaceae (Rose Family)	<i>Horkelia tridentata</i> var. <i>tridentata</i>	Three toothed horkelia	SCMO- VNLC-0179	N/A	Native	Forb/herb

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Family Name	Scientific Name	Common Name	Plot ID	Status*	Origin	Habit
Rubiaceae (Madder Family)	<i>Kelloggia galioides</i>	Kelloggia	Outside of SCMO plot	N/A	Native	Forb/herb
Salicaceae (Willow Family)	<i>Salix lasiolepis</i>	Arroyo willow	SCMO- VNLC-0504	N/A	Native	Tree, Shrub
Saxifragaceae (Saxifrage Family)	<i>Micranthes tolmiei</i>	Tolmie's saxifrage	SCMO- VNLC-1041	N/A	Native	Forb/herb
Themidaceae (Brodiaea Family)	<i>Dichelostemma congestum</i>	Fork toothed ookow	SCMO-SBS- 0522	N/A	Native	Forb/herb
Themidaceae (Brodiaea Family)	<i>Brodiaea coronaria</i>	Harvest brodiaea	SCMO- VNLC-0663	N/A	Native	Forb/herb
Themidaceae (Brodiaea Family)	<i>Dichelostemma multiflorum</i>	Many flowered brodiaea	SCMO- VNLC-0825	N/A	Native	Forb/herb
Themidaceae (Brodiaea Family)	<i>Triteleia hyacinthina</i>	Wild hyacinth	SCMO-SBS- 0521	N/A	Native	Forb/herb
Themidaceae (Brodiaea Family)	<i>Triteleia hyacinthina</i>	Wild hyacinth	SCMO- VNLC-0827	N/A	Native	Forb/herb
Typhaceae (Cat-tail Family)	<i>Sparganium emersum</i>	Emersed bur-reed	SCMO- VNLC-0931	N/A	Native	Forb/herb

*California Rare Plant Rank (CRPR) (CNPS 2026) or Cal-IPC Rating (Cal-IPC 2026)

Note: N/A denotes not applicable. Entries are taxa with no CRPR rank and no Cal-IPC rank.

CRPR Codes:

1A: Plants presumed extirpated in California and either rare or extinct elsewhere; **1B:** Plants rare, threatened or endangered in CA and elsewhere; **2B:** Plants rare, threatened or endangered in California but more common elsewhere; **3:** = More information is needed about plant; **4:** = Plants of limited distribution, a watch list,

Threat Codes: **0.1:** Seriously threatened in CA; **0.2:** Fairly threatened in CA; **0.3:** Not very threatened in CA

California Invasive Plant Council Rating:

High: Severe ecological impacts on physical processes, plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal and establishment. Most are widely distributed ecologically.

Moderate: substantial and apparent-but generally not severe-ecological impacts on physical processes, plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal, though establishment is generally dependent upon ecological disturbance. Ecological amplitude and distribution may range from limited to widespread.

Limited: invasive but their ecological impacts are minor on a statewide level or there was not enough information to justify a higher score. Their reproductive biology and other attributes result in low to moderate rates of invasiveness. Ecological amplitude and distribution are generally limited, but these species may be locally persistent and problematic.

Alert: Species with High or Moderate impacts that have limited distribution in California, but may have the potential to spread much further.

Watch: These species have been assessed as posing a high risk of becoming invasive in the future in California

APPENDIX D: LIST OF ALL PLANT TAXA AND NON-VASCULAR CLASSES IDENTIFIED WITHIN SAMPLED PLOTS

Appendix D, Table 1. List of All Vascular Plant Taxa Identified within Sampled Plots.

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Agavaceae (Century-Plant Family)	<i>Camassia leichtlinii</i> ssp. <i>suksdorfii</i>	CALES2	Suksdorf's Large Camas	Herb	Native	N/A	None None None	8
Agavaceae (Century-Plant Family)	<i>Camassia quamash</i> ssp. <i>breviflora</i>	CAQUB2	Small Camas	Herb	Native	N/A	None None None	29
Agavaceae (Century-Plant Family)	<i>Chlorogalum angustifolium</i>	CHAN2	Narrow-Leaved Soap Plant	Herb	Native	N/A	None None None	2
Agavaceae (Century-Plant Family)	<i>Chlorogalum pomeridianum</i>	CHPO3	Amole	Herb	Native	N/A	None None None	3
Agavaceae (Century-Plant Family)	<i>Chlorogalum pomeridianum</i> var. <i>pomeridianum</i>	CHPOP4	Common Soap Plant	Herb	Native	N/A	None None None	6
Agavaceae (Century-Plant Family)	<i>Hastingsia alba</i>	HAAL2	White Hastingsia	Herb	Native	N/A	None None None	11
Alismataceae (Water-Plantain Family)	<i>Alisma lanceolatum</i>	ALLA2	Water Plantain	Herb	Naturalized	N/A	None None None	2
Alismataceae (Water-Plantain Family)	<i>Alisma triviale</i>	ALTR7	Northern Water Plantain	Herb	Native	N/A	None None None	8
Alismataceae (Water-Plantain Family)	<i>Damasonium californicum</i>	DACA12	California Damsonium	Herb	Native	N/A	None None None	29

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Alismataceae (Water-Plantain Family)	<i>Sagittaria cuneata</i>	SACU	Tule Potato	Herb	Native	N/A	None None None	16
Alliaceae (Asparagus Family)	<i>Allium acuminatum</i>	ALAC4	Taper Tipped Onion	Herb	Native	N/A	None None None	9
Alliaceae (Asparagus Family)	<i>Allium amplexens</i>	ALAM2	Narrow Leaved Onion	Herb	Native	N/A	None None None	14
Alliaceae (Asparagus Family)	<i>Allium bisceptrum</i>	ALBI2	Twincrest Onion	Herb	Native	N/A	None None None	2
Alliaceae (Asparagus Family)	<i>Allium campanulatum</i>	ALCA2	Dusky Onion	Herb	Native	N/A	None None None	25
Alliaceae (Asparagus Family)	<i>Allium falcifolium</i>	ALFA3	Sickle Leaf Onion	Herb	Native	N/A	None None None	3
Alliaceae (Asparagus Family)	<i>Allium parvum</i>	ALPA3	Dwarf Onion	Herb	Native	N/A	None None None	2
Alliaceae (Asparagus Family)	<i>Allium platycaule</i>	ALPL2	Broad Stemmed Onion	Herb	Native	N/A	None None None	1
Alliaceae (Asparagus Family)	<i>Allium validum</i>	ALVA	Swamp Onion	Herb	Native	N/A	None None None	14
Anacardiaceae (Sumac Family)	<i>Rhus aromatica</i>	RHAR4	Skunk Bush	Shrub	Native	N/A	None None None	82

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Anacardiaceae (Sumac Family)	<i>Toxicodendron diversilobum</i>	TODI	Western Poison Oak	Shrub	Native	N/A	None None None	63
Apiaceae (Carrot Family)	<i>Angelica arguta</i>	ANAR3	Angelica	Herb	Native	N/A	None None None	1
Apiaceae (Carrot Family)	<i>Angelica breweri</i>	ANBR5	Brewer's Angelica	Herb	Native	N/A	None None None	13
Apiaceae (Carrot Family)	<i>Angelica californica</i>	ANCA32	California Angelica	Herb	Native	N/A	None None None	1
Apiaceae (Carrot Family)	<i>Angelica capitellata</i>	2JMANCA	Ranger's Buttons	Herb	Native	N/A	None None None	7
Apiaceae (Carrot Family)	<i>Anthriscus caucalis</i>	ANCA14	Bur-Chervil	Herb	Naturalized	N/A	None None None	17
Apiaceae (Carrot Family)	<i>Berula erecta</i>	BEER	Cut Leaved Water Parsnip	Herb	Native	N/A	None None None	6
Apiaceae (Carrot Family)	<i>Cicuta douglasii</i>	CIDO	Western Water Hemlock	Herb	Native	N/A	None None None	15
Apiaceae (Carrot Family)	<i>Conium maculatum</i>	COMA2	Poison Hemlock	Herb	Naturalized	Moderate	None None None	10
Apiaceae (Carrot Family)	<i>Cymopterus terebinthinus</i>	CYTE9	Turpentine Cymopterus	Herb	Native	N/A	None None None	3

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Apiaceae (Carrot Family)	<i>Cymopterus terebinthinus</i> var. <i>californicus</i>	CYTEC2	Turpentine Cymopterus	Herb	Native	N/A	None None None	7
Apiaceae (Carrot Family)	<i>Daucus pusillus</i>	DAPU3	Wild Carrot	Herb	Native	N/A	None None None	3
Apiaceae (Carrot Family)	<i>Eryngium alismifolium</i>	ERAL8	Alisma-Leaved Button-Celery	Herb	Native	N/A	None None None	64
Apiaceae (Carrot Family)	<i>Eryngium aristulatum</i>	ERAR11	Jepson's Button Celery	Herb	Native	N/A	None None None	3
Apiaceae (Carrot Family)	<i>Eryngium articulatum</i>	ERAR14	Beethistle	Herb	Native	N/A	None None None	17
Apiaceae (Carrot Family)	<i>Eryngium castrense</i>	ERCA33	Great Valley Coyote-Thistle	Herb	Native	N/A	None None None	1
Apiaceae (Carrot Family)	<i>Eryngium mathiasiae</i>	ERMA10	Mathias' Button-Celery	Herb	Native	N/A	None None None	5
Apiaceae (Carrot Family)	<i>Heracleum maximum</i>	HEMA80	Cow Parsnip	Herb	Native	N/A	None None None	38
Apiaceae (Carrot Family)	<i>Ligusticum grayi</i>	LIGR	Gray's Lovage	Herb	Native	N/A	None None None	13
Apiaceae (Carrot Family)	<i>Lomatium bicolor</i> var. <i>leptocarpum</i>	LOBIL	Slender Fruited Lomatium	Herb	Native	N/A	None None None	2

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Apiaceae (Carrot Family)	<i>Lomatium dasycarpum</i>	LODA	Lace Parsnip	Herb	Native	N/A	None None None	1
Apiaceae (Carrot Family)	<i>Lomatium dasycarpum</i> ssp. <i>tomentosum</i>	LODAT	Woolly Fruited Lomatium	Herb	Native	N/A	None None None	1
Apiaceae (Carrot Family)	<i>Lomatium dissectum</i>	LODI	Fern Leaved Lomatium	Herb	Native	N/A	None None None	2
Apiaceae (Carrot Family)	<i>Lomatium fusiformis</i>	2JMLOFU	California Indian Potato	Herb	Native	N/A	None None None	1
Apiaceae (Carrot Family)	<i>Lomatium macrocarpum</i>	LOMA3	Large Fruited Lomatium	Herb	Native	N/A	None None None	20
Apiaceae (Carrot Family)	<i>Lomatium multifidum</i>	2JMLOMU	Fern Leaved Lomatium	Herb	Native	N/A	None None None	6
Apiaceae (Carrot Family)	<i>Lomatium nudicaule</i>	LONU2	Pestle Lomatium	Herb	Native	N/A	None None None	15
Apiaceae (Carrot Family)	<i>Lomatium triternatum</i>	LOTR2	Lewis's Lomatium	Herb	Native	N/A	None None None	3
Apiaceae (Carrot Family)	<i>Lomatium utriculatum</i>	LOUT	Hog Fennel	Herb	Native	N/A	None None None	5
Apiaceae (Carrot Family)	<i>Lomatium vaginatum</i>	LOVA	Sheathed Lomatium	Herb	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Apiaceae (Carrot Family)	<i>Oenanthe sarmentosa</i>	OESA	Water Parsley	Herb	Native	N/A	None None None	6
Apiaceae (Carrot Family)	<i>Osmorhiza berteroi</i>	OSBE	Sweet Cicely	Herb	Native	N/A	None None None	64
Apiaceae (Carrot Family)	<i>Osmorhiza occidentalis</i>	OSOC	Western Sweet Cicely	Herb	Native	N/A	None None None	18
Apiaceae (Carrot Family)	<i>Oxypolis occidentalis</i>	OXOC	Western Cow Bane	Herb	Native	N/A	None None None	12
Apiaceae (Carrot Family)	<i>Perideridia bolanderi</i>	PEBO2	Bolander's Yampah	Herb	Native	N/A	None None None	2
Apiaceae (Carrot Family)	<i>Perideridia bolanderi</i> ssp. <i>bolanderi</i>	PEBOB	Bolander's Yampah	Herb	Native	N/A	None None None	8
Apiaceae (Carrot Family)	<i>Perideridia gairdneri</i>	PEGA3	Gairdner's Yampah	Herb	Native	N/A	None None None	14
Apiaceae (Carrot Family)	<i>Perideridia gairdneri</i> ssp. <i>borealis</i>	PEGAB	Northern Gairdner's Yampah	Herb	Native	N/A	None None None	4
Apiaceae (Carrot Family)	<i>Perideridia howellii</i>	PEHO5	Howell's Yampah	Herb	Native	N/A	None None None	7
Apiaceae (Carrot Family)	<i>Perideridia kelloggii</i>	PEKE	Yampah	Herb	Native	N/A	None None None	7

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Apiaceae (Carrot Family)	<i>Perideridia lemmonii</i>	PELE5	Lemmon's Yampah	Herb	Native	N/A	None None None	17
Apiaceae (Carrot Family)	<i>Perideridia oregana</i>	PEOR6	Oregon Yampah	Herb	Native	N/A	None None None	30
Apiaceae (Carrot Family)	<i>Perideridia parishii</i>	PEPA21	Parish's Yampah	Herb	Native	N/A	None None None	27
Apiaceae (Carrot Family)	<i>Perideridia parishii</i> ssp. <i>latifolia</i>	PEPAL	Parish's Yampah	Herb	Native	N/A	None None None	26
Apiaceae (Carrot Family)	<i>Sanicula bipinnata</i>	SABI2	Poison Sanicle	Herb	Native	N/A	None None None	9
Apiaceae (Carrot Family)	<i>Sanicula bipinnatifida</i>	SABI3	Purple Sanicle	Herb	Native	N/A	None None None	34
Apiaceae (Carrot Family)	<i>Sanicula crassicaulis</i>	SACR2	Pacific Sanicle	Herb	Native	N/A	None None None	3
Apiaceae (Carrot Family)	<i>Sanicula graveolens</i>	SAGR5	Sierra Sanicle	Herb	Native	N/A	None None None	5
Apiaceae (Carrot Family)	<i>Sanicula tuberosa</i>	SATU	Turkey Pea	Herb	Native	N/A	None None None	3
Apiaceae (Carrot Family)	<i>Tauschia hartwegii</i>	TAHA2	Hartweg's Umbrellawort	Herb	Native	N/A	None None None	2

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Apiaceae (Carrot Family)	<i>Torilis arvensis</i>	TOAR	Tall Sock-Destroyer	Herb	Naturalized	Moderate	None None None	55
Apiaceae (Carrot Family)	<i>Yabea microcarpa</i>	YAMI	Hedge Parsley	Herb	Native	N/A	None None None	2
Apocynaceae (Dogbane Family)	<i>Apocynum androsaemifolium</i>	APAN2	Bitter Dogbane	Herb	Native	N/A	None None None	112
Apocynaceae (Dogbane Family)	<i>Apocynum cannabinum</i>	APCA	Hemp Dogbane	Herb	Native	N/A	None None None	3
Apocynaceae (Dogbane Family)	<i>Asclepias cordifolia</i>	ASCO	Purple Milkweed	Herb	Native	N/A	None None None	7
Apocynaceae (Dogbane Family)	<i>Asclepias eriocarpa</i>	ASER	Kotolo	Herb	Native	N/A	None None None	2
Apocynaceae (Dogbane Family)	<i>Asclepias fascicularis</i>	ASFA	Narrow-Leaf Milkweed	Herb	Native	N/A	None None None	8
Apocynaceae (Dogbane Family)	<i>Asclepias speciosa</i>	ASSP	Showy Milkweed	Herb	Native	N/A	None None None	3
Apocynaceae (Dogbane Family)	<i>Cycladenia humilis</i>	CYHU	Cycladenia	Herb	Native	N/A	None None None	1
Apocynaceae (Dogbane Family)	<i>Cycladenia humilis</i> var. <i>humilis</i>	CYHUH	Cycladenia	Herb	Native	N/A	None None None	3

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Apocynaceae (Dogbane Family)	<i>Vinca major</i>	VIMA	Greater Periwinkle	Herb	Naturalized	Moderate	None None None	1
Araceae (Arum Family)	<i>Lemna minor</i>	LEMI3	Smaller Duckweed	Herb	Native	N/A	None None None	7
Araceae (Arum Family)	<i>Lemna minuta</i>	LEMI6	Least Duckweed	Herb	Native	N/A	None None None	3
Araceae (Arum Family)	<i>Lemna turionifera</i>	LETU2	Turion Duckweed	Herb	Native	N/A	None None None	1
Araliaceae (Ginseng Family)	<i>Aralia californica</i>	ARCA2	Elk Clover	Shrub	Native	N/A	None None None	1
Aristolochiaceae (Birthwort Family)	<i>Aristolochia californica</i>	ARCA10	California Pipevine	Shrub	Native	N/A	None None None	2
Aristolochiaceae (Birthwort Family)	<i>Asarum caudatum</i>	ASCA2	Creeping Wild Ginger	Herb	Native	N/A	None None None	6
Aristolochiaceae (Birthwort Family)	<i>Asarum hartwegii</i>	ASHA	Hartweg's Wild Ginger	Herb	Native	N/A	None None None	32
Asteraceae (Aster Family)	<i>Achillea millefolium</i>	ACMI2	Yarrow	Herb	Native	N/A	None None None	224
Asteraceae (Aster Family)	<i>Achyrrachaena mollis</i>	ACMO2	Blow Wives	Herb	Native	N/A	None None None	2

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Adenocaulon bicolor</i>	ADBI	Trail Plant	Herb	Native	N/A	None None None	46
Asteraceae (Aster Family)	<i>Ageratina occidentalis</i>	AGOC2	Western Snakeroot	Herb	Native	N/A	None None None	8
Asteraceae (Aster Family)	<i>Agoseris glauca</i>	AGGL	Pale Agoseris	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Agoseris glauca</i> var. <i>glauca</i>	AGGLG	Short Beaked Agoseris	Herb	Native	N/A	None None None	7
Asteraceae (Aster Family)	<i>Agoseris grandiflora</i>	AGGR	Giant Mountain Dandelion	Herb	Native	N/A	None None None	29
Asteraceae (Aster Family)	<i>Agoseris grandiflora</i> var. <i>grandiflora</i>	2JMAGGRG	Giant Mountain Dandelion	Herb	Native	N/A	None None None	6
Asteraceae (Aster Family)	<i>Agoseris heterophylla</i>	AGHE2	Mountain Dandelion	Herb	Native	N/A	None None None	25
Asteraceae (Aster Family)	<i>Agoseris heterophylla</i> var. <i>heterophylla</i>	AGHEH	Annual Agoseris	Herb	Native	N/A	None None None	3
Asteraceae (Aster Family)	<i>Agoseris monticola</i>	AGMO5	Mountain Agoseris	Herb	Native	N/A	None None None	10
Asteraceae (Aster Family)	<i>Agoseris retrorsa</i>	AGRE	Spear Leaved Agoseris	Herb	Native	N/A	None None None	15

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Anaphalis margaritacea</i>	ANMA	Pearly Everlasting	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Antennaria argentea</i>	ANAR5	Silvery Everlasting	Herb	Native	N/A	None None None	12
Asteraceae (Aster Family)	<i>Antennaria corymbosa</i>	ANCO	Meadowpussytoes	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Antennaria dimorpha</i>	ANDI2	Gray Cushion Pussytoes	Herb	Native	N/A	None None None	9
Asteraceae (Aster Family)	<i>Antennaria geyeri</i>	ANGE3	Geyer's Pussytoes	Herb	Native	N/A	None None None	5
Asteraceae (Aster Family)	<i>Antennaria luzuloides</i>	ANLU2	Silvery Brown Pussytoes	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Antennaria luzuloides</i> ssp. <i>aberrans</i>	ANLUA2	Rush Pussytoes	Herb	Native	N/A	None None None	4
Asteraceae (Aster Family)	<i>Antennaria luzuloides</i> ssp. <i>luzuloides</i>	ANLUL	Rush Pussytoes	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Antennaria media</i>	ANME2	Alpine Pussytoes	Herb	Native	N/A	None None None	11
Asteraceae (Aster Family)	<i>Antennaria microphylla</i>	ANMI3	Littleleaf Pussytoes	Herb	Native	N/A	None None None	3

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Antennaria rosea</i>	ANRO2	Rosy Everlasting	Herb	Native	N/A	None None None	34
Asteraceae (Aster Family)	<i>Antennaria rosea</i> ssp. <i>confinis</i>	ANROC	Rosy Pussytoes	Herb	Native	N/A	None None None	7
Asteraceae (Aster Family)	<i>Antennaria rosea</i> ssp. <i>rosea</i>	ANROR	Rosy Pussytoes	Herb	Native	N/A	None None None	18
Asteraceae (Aster Family)	<i>Arnica chamissonis</i>	ARCH3	Chamisso Arnica	Herb	Native	N/A	None None None	34
Asteraceae (Aster Family)	<i>Arnica dealbata</i>	ARDE11	Mock Leopardbane	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Arnica discoidea</i>	ARDI6	Rayless Arnica	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Arnica lanceolata</i> ssp. <i>prima</i>	2JMARLAP	Clasping Arnica	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Arnica longifolia</i>	ARLO6	Spearleaf Arnica	Herb	Native	N/A	None None None	5
Asteraceae (Aster Family)	<i>Arnica mollis</i>	ARMO4	Hairy Arnica	Herb	Native	N/A	None None None	13
Asteraceae (Aster Family)	<i>Arnica nevadensis</i>	ARNE3	Sierra Arnica	Herb	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Arnica viscosa</i>	ARVI6	Mount Shasta Arnica	Herb	Native	N/A	None None 4.3	3
Asteraceae (Aster Family)	<i>Artemisia arbuscula</i>	ARAR8	Low Sagebrush	Shrub	Native	N/A	None None None	15
Asteraceae (Aster Family)	<i>Artemisia arbuscula</i> ssp. <i>arbuscula</i>	ARARA	Low Sagebrush	Shrub	Native	N/A	None None None	21
Asteraceae (Aster Family)	<i>Artemisia cana</i> ssp. <i>bolanderi</i>	ARCAB3	Silver Sagebrush	Shrub	Native	N/A	None None None	33
Asteraceae (Aster Family)	<i>Artemisia douglasiana</i>	ARDO3	Mugwort	Herb	Native	N/A	None None None	58
Asteraceae (Aster Family)	<i>Artemisia ludoviciana</i>	ARLU	Silver Wormwood	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Artemisia ludoviciana</i> ssp. <i>candicans</i>	ARLUC8	Gray Mugwort	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i>	ARLUL2	Silver Wormwood	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Artemisia nova</i>	ARNO4	Black Sagebrush	Shrub	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Artemisia tridentata</i>	ARTR2	Common Sagebrush	Shrub	Native	N/A	None None None	18

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Artemisia tridentata</i> ssp. <i>tridentata</i>	ARTRT	Big Sagebrush	Shrub	Native	N/A	None None None	26
Asteraceae (Aster Family)	<i>Artemisia tridentata</i> ssp. <i>vaseyana</i>	ARTRV	Mountain Sagebrush	Shrub	Native	N/A	None None None	80
Asteraceae (Aster Family)	<i>Artemisia tridentata</i> ssp. <i>wyomingensis</i>	ARTRW8	Wyoming Sagebrush	Shrub	Native	N/A	None None None	4
Asteraceae (Aster Family)	<i>Balsamorhiza deltoidea</i>	BADE2	Deltoid Balsam Root	Herb	Native	N/A	None None None	7
Asteraceae (Aster Family)	<i>Balsamorhiza hookeri</i>	BAHO	Hooker's Balsam Root	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Balsamorhiza sagittata</i>	BASA3	Arrow Leaved Balsamroot	Herb	Native	N/A	None None None	9
Asteraceae (Aster Family)	<i>Bidens cernua</i>	BICE	Nodding Bur-Marigold	Herb	Native	N/A	None None None	4
Asteraceae (Aster Family)	<i>Blepharipappus scaber</i>	BLSC	Blepharipappus	Herb	Native	N/A	None None None	20
Asteraceae (Aster Family)	<i>Brickellia californica</i>	BRCA3	California Brickellbush	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Brickellia grandiflora</i>	BRGR	Large Flowered Brickelbush	Herb	Native	N/A	None None None	5

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Brickellia greenei</i>	BRGR2	Brickellia Greenei	Herb	Native	N/A	None None None	4
Asteraceae (Aster Family)	<i>Calycadenia fremontii</i>	CAFR	Fremont's Calycadenia	Herb	Native	N/A	None None None	5
Asteraceae (Aster Family)	<i>Calycadenia truncata</i>	CATR3	Rosin Weed	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Carduus pycnocephalus</i> ssp. <i>pycnocephalus</i>	2JMCAYP	Italian Thistle	Herb	Naturalized	Moderate	None None None	1
Asteraceae (Aster Family)	<i>Centaurea solstitialis</i>	CESO3	Yellow Star-Thistle	Herb	Naturalized	High	None None None	21
Asteraceae (Aster Family)	<i>Centromadia fitchii</i>	CEFI2	Spikeweed	Herb	Native	N/A	None None None	3
Asteraceae (Aster Family)	<i>Centromadia parryi</i> ssp. <i>rudis</i>	CEPAR4	Parry's Rough Tarplant	Herb	Native	N/A	None None 4.2	1
Asteraceae (Aster Family)	<i>Centromadia pungens</i>	CEPU14	Common Tarweed	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Chaenactis douglasii</i>	CHDO	Chaenactis	Herb	Native	N/A	None None None	8
Asteraceae (Aster Family)	<i>Chaenactis douglasii</i> var. <i>douglasii</i>	CHDOD	Dusty-Maidens	Herb	Native	N/A	None None None	9

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Chaenactis glabriuscula</i>	CHGL	Yellow Pincushion	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Chaenactis glabriuscula</i> var. <i>heterocarpha</i>	CHGLH	Inner Coast Range Pincushion	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Chaenactis glabriuscula</i> var. <i>megacephala</i>	CHGLM	Big Headed Yellow Chaenactis	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Chaenactis nevadensis</i>	CHNE	Sierra Pincushion	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Chrysothamnus</i> <i>viscidiflorus</i>	CHVI8	Yellow Rabbitbrush	Shrub	Native	N/A	None None None	89
Asteraceae (Aster Family)	<i>Chrysothamnus</i> <i>viscidiflorus</i> ssp. <i>viscidiflorus</i>	CHVIV2	Sticky Leaved Rabbitbrush	Shrub	Native	N/A	None None None	40
Asteraceae (Aster Family)	<i>Cichorium intybus</i>	CIIN	Chicory	Herb	Naturalized	N/A	None None None	2
Asteraceae (Aster Family)	<i>Cirsium andersonii</i>	CIAN	Anderson's Thistle	Herb	Native	N/A	None None None	7
Asteraceae (Aster Family)	<i>Cirsium arvense</i>	CIAR4	Canada Thistle	Herb	Naturalized	Moderate	None None None	5
Asteraceae (Aster Family)	<i>Cirsium cymosum</i>	CICY	Peregrine Thistle	Herb	Native	N/A	None None None	6

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Cirsium cymosum</i> var. <i>cymosum</i>	2JMCICYC	Peregrine Thistle	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Cirsium douglasii</i>	CIDO2	Swamp Thistle	Herb	Native	N/A	None None None	4
Asteraceae (Aster Family)	<i>Cirsium douglasii</i> var. <i>breweri</i>	CIDOB2	Brewer's Swamp Thistle	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Cirsium occidentale</i>	CIOC	Western Thistle	Herb	Native	N/A	None None None	3
Asteraceae (Aster Family)	<i>Cirsium scariosum</i>	CISC2	Meadow Thistle	Herb	Native	N/A	None None None	6
Asteraceae (Aster Family)	<i>Cirsium scariosum</i> var. <i>americanum</i>	2JMCISCA	Dinnerplate Thistle	Herb	Native	N/A	None None None	4
Asteraceae (Aster Family)	<i>Cirsium vulgare</i>	CIVU	Bull Thistle	Herb	Naturalized	Moderate	None None None	40
Asteraceae (Aster Family)	<i>Crepis acuminata</i>	CRAC2	Tall Hawksbeard	Herb	Native	N/A	None None None	18
Asteraceae (Aster Family)	<i>Crepis bakeri</i>	CRBA2	Baker's Hawksbeard	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Crepis intermedia</i>	CRIN4	Intermediate Hawksbeard	Herb	Native	N/A	None None None	3

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Crepis modocensis</i>	CRMO4	Modoc Hawksbeard	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Crepis monticola</i>	CRMO5	Mountain Hawk's Beard	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Crepis occidentalis</i>	CROC	Western Hawk's Beard	Herb	Native	N/A	None None None	4
Asteraceae (Aster Family)	<i>Crepis pleurocarpa</i>	CRPL	Naked Stemmed Hawksbeard	Herb	Native	N/A	None None None	3
Asteraceae (Aster Family)	<i>Crocidium multicaule</i>	CRMU	Spring Gold	Herb	Native	N/A	None None None	3
Asteraceae (Aster Family)	<i>Dieteria canescens</i>	DICA18	Hoary-Aster	Herb	Native	N/A	None None None	23
Asteraceae (Aster Family)	<i>Dieteria canescens</i> var. <i>canescens</i>	2JMDICAC2	Hoary Aster	Herb	Native	N/A	None None None	8
Asteraceae (Aster Family)	<i>Dieteria canescens</i> var. <i>shastensis</i>	2JMDICAS	Shasta Aster	Herb	Native	N/A	None None None	44
Asteraceae (Aster Family)	<i>Doellingeria breweri</i>	2JMDOBR	Brewer's Aster	Herb	Native	N/A	None None None	7
Asteraceae (Aster Family)	<i>Ericameria bloomeri</i>	ERBL2	Bloomer's Goldenbush	Shrub	Native	N/A	None None None	126

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Ericameria greenei</i>	ERGR16	Greene's Goldenbush	Shrub	Native	N/A	None None None	6
Asteraceae (Aster Family)	<i>Ericameria nauseosa</i>	ERNA10	Rubber Rabbitbrush	Shrub	Native	N/A	None None None	119
Asteraceae (Aster Family)	<i>Ericameria nauseosa</i> var. <i>oreophila</i>	2JMERNAO	Great Basin Rabbitbrush	Shrub	Native	N/A	None None None	12
Asteraceae (Aster Family)	<i>Ericameria nauseosa</i> var. <i>speciosa</i>	2JMERNAS	Showy Rabbitbrush	Shrub	Native	N/A	None None None	17
Asteraceae (Aster Family)	<i>Erigeron bloomeri</i>	ERBL	Bloomer's Fleabane	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Erigeron bloomeri</i> var. <i>bloomeri</i>	ERBLB	Scabland Fleabane	Herb	Native	N/A	None None None	5
Asteraceae (Aster Family)	<i>Erigeron canadensis</i>	ERCA20	Horseweed	Herb	Native	N/A	None None None	3
Asteraceae (Aster Family)	<i>Erigeron divergens</i>	ERDI4	Spreading Fleabane	Herb	Native	N/A	None None None	3
Asteraceae (Aster Family)	<i>Erigeron eatonii</i>	EREA	Eaton's Fleabane	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Erigeron eatonii</i> var. <i>nevadincola</i>	EREAN	Nevada Daisy	Herb	Native	N/A	None None 2B.3	3

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Erigeron eatonii</i> var. <i>plantagineus</i>	EREAP2	Eaton's Daisy	Herb	Native	N/A	None None None	6
Asteraceae (Aster Family)	<i>Erigeron elegantulus</i>	EREL4	Volcanic Daisy	Herb	Native	N/A	None None 4.3	2
Asteraceae (Aster Family)	<i>Erigeron filifolius</i>	ERFI2	Thread-Leaf Fleabane	Herb	Native	N/A	None None None	14
Asteraceae (Aster Family)	<i>Erigeron foliosus</i>	ERFO2	Leafy Fleabane	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Erigeron glacialis</i> var. <i>glacialis</i>	2JMERGLG	Wandering Fleabane	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Erigeron inornatus</i>	ERIN2	Western Rayless Fleabane	Herb	Native	N/A	None None None	28
Asteraceae (Aster Family)	<i>Erigeron inornatus</i> var. <i>calidipetris</i>	ERINC3	Hot Rock Daisy	Herb	Native	N/A	None None 4.3	6
Asteraceae (Aster Family)	<i>Erigeron inornatus</i> var. <i>inornatus</i>	ERINI	Fleabane	Herb	Native	N/A	None None None	41
Asteraceae (Aster Family)	<i>Erigeron lassenianus</i> var. <i>lassenianus</i>	ERLAL4	Mt. Lassen Daisy	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Erigeron linearis</i>	ERLI	Desert Yellow Fleabane	Herb	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Erigeron nivalis</i>	ERNI6	Snow Fleabane Daisy	Herb	Native	N/A	None None 2B.3	1
Asteraceae (Aster Family)	<i>Erigeron philadelphicus</i> var. <i>philadelphicus</i>	ERPHP	Philadelphia Fleabane	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Eriophyllum lanatum</i>	ERLA6	Common Woolly Sunflower	Herb	Native	N/A	None None None	82
Asteraceae (Aster Family)	<i>Eriophyllum lanatum</i> var. <i>achilleoides</i>	2JMERLAA	Yarrow Leaved Woolly Sunflower	Herb	Native	N/A	None None None	12
Asteraceae (Aster Family)	<i>Eriophyllum lanatum</i> var. <i>grandiflorum</i>	ERLAG	Large Flowered Woolly Sunflower	Herb	Native	N/A	None None None	9
Asteraceae (Aster Family)	<i>Eriophyllum lanatum</i> var. <i>integrifolium</i>	ERLAI	Oregon Sunshine	Herb	Native	N/A	None None None	10
Asteraceae (Aster Family)	<i>Eurybia integrifolia</i>	EUIN9	Thickstem Aster	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Eurybia radulina</i>	EURA11	Roughleaf Aster	Herb	Native	N/A	None None None	10
Asteraceae (Aster Family)	<i>Euthamia occidentalis</i>	EUOC4	Western Goldenrod	Herb	Native	N/A	None None None	4
Asteraceae (Aster Family)	<i>Gnaphalium palustre</i>	GNPA	Lowland Cudweed	Herb	Native	N/A	None None None	41

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Grindelia camporum</i>	GRCA	Gumweed	Herb	Native	N/A	None None None	4
Asteraceae (Aster Family)	<i>Grindelia hirsutula</i>	GRHI	Gumweed	Herb	Native	N/A	None None 3.2	3
Asteraceae (Aster Family)	<i>Grindelia nana</i>	GRNA	Idaho Gumweed	Herb	Native	N/A	None None None	12
Asteraceae (Aster Family)	<i>Grindelia squarrosa</i> var. <i>serrulata</i>	GRSQS	Curlycup Gumweed	Herb	Naturalized	N/A	None None None	5
Asteraceae (Aster Family)	<i>Helenium bigelovii</i>	HEBI	Bigelow's Sneezeweed	Herb	Native	N/A	None None None	16
Asteraceae (Aster Family)	<i>Helenium puberulum</i>	HEPU2	Sneezeweed	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Helianthella californica</i>	HECA	California Helianthella	Herb	Native	N/A	None None None	4
Asteraceae (Aster Family)	<i>Helianthella californica</i> var. <i>nevadensis</i>	HECAN	California Helianthella	Herb	Native	N/A	None None None	3
Asteraceae (Aster Family)	<i>Helianthus annuus</i>	HEAN3	Hairy Leaved Sunflower	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Hemizonella minima</i>	HEMI20	Opposite Leaved Tarweed	Herb	Native	N/A	None None None	10

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Heterotheca villosa</i>	HEVI4	Hairy Goldenaster	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Heterotheca villosa</i> var. <i>minor</i>	HEVIM3	Hairy False Goldenaster	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Hieracium albiflorum</i>	HIAL2	White Hawkweed	Herb	Native	N/A	None None None	88
Asteraceae (Aster Family)	<i>Hieracium horridum</i>	HIHO	Prickly Hawkweed	Herb	Native	N/A	None None None	7
Asteraceae (Aster Family)	<i>Hieracium nudicaule</i>	HINU	Naked-Stemmed Hawkweed	Herb	Native	N/A	None None None	7
Asteraceae (Aster Family)	<i>Hieracium scouleri</i>	HISC2	Western Hawkweed	Herb	Native	N/A	None None None	42
Asteraceae (Aster Family)	<i>Hieracium triste</i>	HITR2	Slender Hawkweed	Herb	Native	N/A	None None None	5
Asteraceae (Aster Family)	<i>Holozonia filipes</i>	HOFI	Whitecrown	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Hulsea nana</i>	HUNA	Little Hulsea	Herb	Native	N/A	None None 2B.3	2
Asteraceae (Aster Family)	<i>Hypochaeris glabra</i>	HYGL2	Smooth Cat's-Ear	Herb	Naturalized	Limited	None None None	4

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Hypochaeris radicata</i>	HYRA3	Rough Cat's-Ear	Herb	Naturalized	Moderate	None None None	3
Asteraceae (Aster Family)	<i>Iva axillaris</i>	IVAX	Poverty Weed	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Kyhosia bolanderi</i>	KYBO	Bolander's Madia	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Lactuca ludoviciana</i>	LALU	Louisiana Wild Lettuce	Herb	Naturalized	N/A	None None None	1
Asteraceae (Aster Family)	<i>Lactuca serriola</i>	LASE	Prickly Lettuce	Herb	Naturalized	N/A	None None None	50
Asteraceae (Aster Family)	<i>Lactuca virosa</i>	LAVI8	Poison Wild Lettuce	Herb	Naturalized	N/A	None None None	1
Asteraceae (Aster Family)	<i>Lagophylla ramosissima</i>	LARA	Common Hareleaf	Herb	Native	N/A	None None None	11
Asteraceae (Aster Family)	<i>Lapsana communis</i>	LACO3	Common Nipplewort	Herb	Naturalized	N/A	None None None	1
Asteraceae (Aster Family)	<i>Lasthenia gracilis</i>	LAGR10	Common Goldfields	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Layia glandulosa</i>	LAGL5	White Layia	Herb	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Leontodon saxatilis</i> ssp. <i>longirostris</i>	2JMLESAL	Hawkbit	Herb	Naturalized	N/A	None None None	1
Asteraceae (Aster Family)	<i>Lessingia nemaclada</i>	LENE3	Thread Stem Lessingia	Herb	Native	N/A	None None None	5
Asteraceae (Aster Family)	<i>Lessingia virgata</i>	LEVI8	Wand Lessingia	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Leucanthemum vulgare</i>	LEVU	Ox-Eye Daisy	Herb	Naturalized	Moderate	None None None	16
Asteraceae (Aster Family)	<i>Logfia filaginoides</i>	2JMLOF1	California Cottonrose	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Logfia gallica</i>	LOGA2	Daggerleaf Cottonrose	Herb	Naturalized	N/A	None None None	1
Asteraceae (Aster Family)	<i>Madia citrigracilis</i>	MACI	Shasta Tarweed	Herb	Native	N/A	None None None	7
Asteraceae (Aster Family)	<i>Madia citriodora</i>	MACI2	Lemon Scented Tarweed	Herb	Native	N/A	None None None	7
Asteraceae (Aster Family)	<i>Madia elegans</i>	MAEL	Common Madia	Herb	Native	N/A	None None None	5
Asteraceae (Aster Family)	<i>Madia exigua</i>	MAEX	Small Tarweed	Herb	Native	N/A	None None None	46

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Madia glomerata</i>	MAGL2	Mountain Tarweed	Herb	Native	N/A	None None None	11
Asteraceae (Aster Family)	<i>Madia gracilis</i>	MAGR3	Gumweed	Herb	Native	N/A	None None None	39
Asteraceae (Aster Family)	<i>Madia sativa</i>	MASA	Coast Tarweed	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Micropus californicus</i>	MICA	Q-Tips	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Micropus californicus</i> var. <i>californicus</i>	MICAC2	Cottontop	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Microseris laciniata</i>	MILA	Cut Leaved Scorzonella	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Microseris laciniata</i> ssp. <i>laciniata</i>	MILAL	Cut Leaved Scorzonella	Herb	Native	N/A	None None None	11
Asteraceae (Aster Family)	<i>Microseris nutans</i>	MINU	Nodding Microceris	Herb	Native	N/A	None None None	10
Asteraceae (Aster Family)	<i>Nothocalais troximoides</i>	NOTR2	Sagebrush False-Dandelion	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Oreostemma alpigenum</i> var. <i>andersonii</i>	ORALA3	Tundra Aster	Herb	Native	N/A	None None None	28

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Oreostemma elatum</i>	OREL4	Tall Alpine-Aster	Herb	Native	N/A	None None 1B.2	2
Asteraceae (Aster Family)	<i>Packera cana</i>	PACA15	Woolly Groundsel	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Packera eurycephala</i>	PAEU5	Widehead Groundsel	Herb	Native	N/A	None None None	4
Asteraceae (Aster Family)	<i>Packera eurycephala</i> var. <i>eurycephala</i>	PAEUE	Widehead Groundsel	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Packera eurycephala</i> var. <i>lewisrosei</i>	PAEUL	Lewis Rose's Ragwort	Herb	Native	N/A	None None 1B.2	1
Asteraceae (Aster Family)	<i>Packera multilobata</i>	PAMU11	Lobeleaf Groundsel	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Petasites frigidus</i> var. <i>palmatus</i>	PEFRP	Western Sweet Coltsfoot	Herb	Native	N/A	None None None	4
Asteraceae (Aster Family)	<i>Pseudognaphalium beneolens</i>	2JMPSBE	Cudweed	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Pseudognaphalium thermale</i>	2JMPSTH	Small Headed Cudweed	Herb	Native	N/A	None None None	4
Asteraceae (Aster Family)	<i>Psilocarphus brevissimus</i>	PSBR	Woolly Marbles	Herb	Native	N/A	None None None	22

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i>	PSBRB	Dwarf Woollyheads	Herb	Native	N/A	None None None	46
Asteraceae (Aster Family)	<i>Psilocarphus oregonus</i>	PSOR	Oregon Woollyheads	Herb	Native	N/A	None None None	5
Asteraceae (Aster Family)	<i>Psilocarphus tenellus</i>	PSTE	Slender Woolly- Marbles	Herb	Native	N/A	None None None	4
Asteraceae (Aster Family)	<i>Pyrrocoma carthamoides</i> var. <i>cusickii</i>	PYCAC3	Largeflower Goldenweed	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Pyrrocoma racemosa</i>	PYRA	Clustered Goldenweed	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Pyrrocoma racemosa</i> var. <i>paniculata</i>	PYRAP2	Panicled Pyrrocoma	Herb	Native	N/A	None None None	3
Asteraceae (Aster Family)	<i>Rafinesquia californica</i>	RACA	California Chicory	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Rigiopappus leptocladus</i>	RILE2	Wire Weed	Herb	Native	N/A	None None None	3
Asteraceae (Aster Family)	<i>Senecio aronicoides</i>	SEAR4	Rayless Ragwort	Herb	Native	N/A	None None None	3
Asteraceae (Aster Family)	<i>Senecio hydrophiloides</i>	SEHY	Sweet Marsh Ragwort	Herb	Native	N/A	None None 4.2	5

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Senecio hydrophilus</i>	SEHY2	Water Ragwort	Herb	Native	N/A	None None None	3
Asteraceae (Aster Family)	<i>Senecio integerrimus</i>	SEIN2	Mountain Butterweed	Herb	Native	N/A	None None None	36
Asteraceae (Aster Family)	<i>Senecio integerrimus</i> var. <i>exaltatus</i>	SEINE	Columbia Ragwort	Herb	Native	N/A	None None None	10
Asteraceae (Aster Family)	<i>Senecio scorzonella</i>	SESC	Sierra Ragwort	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Senecio triangularis</i>	SETR	Arrowleaf Ragwort	Herb	Native	N/A	None None None	64
Asteraceae (Aster Family)	<i>Solidago elongata</i>	SOEL4	West Coast Canada Goldenrod	Herb	Native	N/A	None None None	28
Asteraceae (Aster Family)	<i>Solidago velutina</i>	SOVE6	Velvety Goldenrod	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Solidago velutina</i> ssp. <i>californica</i>	2JM SOVEC	California Goldenrod	Herb	Native	N/A	None None None	3
Asteraceae (Aster Family)	<i>Sonchus oleraceus</i>	SOOL	Common Sow Thistle	Herb	Naturalized	N/A	None None None	1
Asteraceae (Aster Family)	<i>Stephanomeria lactucina</i>	STLA	Large Flowered Stephanomeria	Herb	Native	N/A	None None None	38

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Stephanomeria paniculata</i>	STPA2	Stiff Branched Stephanomeria	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Stephanomeria tenuifolia</i>	STTE2	Narrow-Leaved Wire-Lettuce	Herb	Native	N/A	None None None	1
Asteraceae (Aster Family)	<i>Stephanomeria virgata</i>	STVI2	Twiggy Wreath Plant	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Symphotrichum bracteolatum</i>	SYBR4	Eaton's Aster	Herb	Native	N/A	None None None	17
Asteraceae (Aster Family)	<i>Symphotrichum campestre</i>	SYCA3	Western Meadow Aster	Herb	Native	N/A	None None None	6
Asteraceae (Aster Family)	<i>Symphotrichum foliaceum</i> var. <i>parryi</i>	SYFOP	Parry's Aster	Herb	Native	N/A	None None None	4
Asteraceae (Aster Family)	<i>Symphotrichum spathulatum</i>	SYSP	Western Mountain Aster	Herb	Native	N/A	None None None	21
Asteraceae (Aster Family)	<i>Symphotrichum spathulatum</i> var. <i>intermedium</i>	SYSPI	Larger Western Mountain Aster	Herb	Native	N/A	None None None	7
Asteraceae (Aster Family)	<i>Symphotrichum spathulatum</i> var. <i>spathulatum</i>	SYSPS	Western Mountain Aster	Herb	Native	N/A	None None None	75
Asteraceae (Aster Family)	<i>Symphotrichum spathulatum</i> var. <i>yosemitanum</i>	SYSPY	Western Bog Aster	Herb	Native	N/A	None None None	10

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Asteraceae (Aster Family)	<i>Taraxacum officinale</i>	TAOF	Common Dandelion	Herb	Naturalized	N/A	None None None	40
Asteraceae (Aster Family)	<i>Tetradymia canescens</i>	TECA2	Gray Horsebrush	Shrub	Native	N/A	None None None	3
Asteraceae (Aster Family)	<i>Tragopogon dubius</i>	TRDU	Yellow Salsify	Herb	Naturalized	N/A	None None None	51
Asteraceae (Aster Family)	<i>Tragopogon porrifolius</i>	TRPO	Salsify	Herb	Naturalized	N/A	None None None	1
Asteraceae (Aster Family)	<i>Tragopogon pratensis</i>	TRPR	Meadow Salsify	Herb	Naturalized	N/A	None None None	1
Asteraceae (Aster Family)	<i>Uropappus lindleyi</i>	URLI5	Silver Puffs	Herb	Native	N/A	None None None	8
Asteraceae (Aster Family)	<i>Wyethia angustifolia</i>	WYAN	Narrow Leaved Mule Ears	Herb	Native	N/A	None None None	2
Asteraceae (Aster Family)	<i>Wyethia mollis</i>	WYMO	Woolly Mule's Ears	Herb	Native	N/A	None None None	37
Asteraceae (Aster Family)	<i>Xanthium strumarium</i>	XAST	Rough Cocklebur	Herb	Native	N/A	None None None	1
Athyriaceae (Lady Fern Family)	<i>Athyrium distentifolium</i> var. <i>americanum</i>	ATDIA3	American Alpine Lady Fern	Herb	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Athyriaceae (Lady Fern Family)	<i>Athyrium filix-femina</i> var. <i>cyclosorum</i>	ATFIC2	Western Lady Fern	Herb	Native	N/A	None None None	27
Azollaceae (Azolla Family)	<i>Azolla filiculoides</i>	AZFI	Mosquito Fern	Herb	Native	N/A	None None None	1
Berberidaceae (Barberry Family)	<i>Berberis aquifolium</i>	BEAQ	Mountain Grape	Shrub	Native	N/A	None None None	19
Berberidaceae (Barberry Family)	<i>Berberis aquifolium</i> var. <i>aquifolium</i>	BEAQA	Oregon Grape	Shrub	Native	N/A	None None None	2
Berberidaceae (Barberry Family)	<i>Berberis aquifolium</i> var. <i>dictyota</i>	BEAQD	Jepson's Oregon Grape	Shrub	Native	N/A	None None None	2
Berberidaceae (Barberry Family)	<i>Berberis nervosa</i>	BENE2	Oregon Grape	Shrub	Native	N/A	None None None	1
Betulaceae (Birch Family)	<i>Alnus incana</i> ssp. <i>tenuifolia</i>	ALINT	Mountain Alder	Shrub	Native	N/A	None None None	84
Betulaceae (Birch Family)	<i>Alnus rhombifolia</i>	ALRH2	White Alder	Sapling	Native	N/A	None None None	75
Betulaceae (Birch Family)	<i>Alnus viridis</i>	ALVI5	Green Alder	Shrub	Native	N/A	None None None	2
Betulaceae (Birch Family)	<i>Betula glandulosa</i>	BEGL	Dwarf Resin Birch	Shrub	Native	N/A	None None 2B.2	3

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Betulaceae (Birch Family)	<i>Betula occidentalis</i>	BEOC2	Water Birch	Shrub	Native	N/A	None None None	5
Betulaceae (Birch Family)	<i>Corylus cornuta</i> ssp. <i>californica</i>	COCOC9	California Hazel	Shrub	Native	N/A	None None None	19
Blechnaceae (Chain Fern Family)	<i>Woodwardia fimbriata</i>	WOFI	Giant Chain Fern	Herb	Native	N/A	None None None	2
Boraginaceae (Borage Family)	<i>Adelinia grandis</i>	2JMADGR	Adelinia	Herb	Native	N/A	None None None	12
Boraginaceae (Borage Family)	<i>Amsinckia intermedia</i>	AMIN3	Common Fiddleneck	Herb	Native	N/A	None None None	3
Boraginaceae (Borage Family)	<i>Amsinckia lycopsoides</i>	AMLY	Bugloss-Flowered Fiddleneck	Herb	Native	N/A	None None None	1
Boraginaceae (Borage Family)	<i>Amsinckia menziesii</i>	AMME	Common Fiddleneck	Herb	Native	N/A	None None None	7
Boraginaceae (Borage Family)	<i>Andersonglossum occidentale</i>	ANOC11	Western Hound's Tongue	Herb	Native	N/A	None None None	8
Boraginaceae (Borage Family)	<i>Cryptantha affinis</i>	CRAF	Side-Grooved Cryptantha	Herb	Native	N/A	None None None	13
Boraginaceae (Borage Family)	<i>Cryptantha ambigua</i>	CRAM3	Wilkes' Cryptantha	Herb	Native	N/A	None None None	12

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Boraginaceae (Borage Family)	<i>Cryptantha crinita</i>	CRCR4	Silky Cryptantha	Herb	Native	N/A	None None 1B.2	1
Boraginaceae (Borage Family)	<i>Cryptantha echinella</i>	CREC	Hedgehog Cryptantha	Herb	Native	N/A	None None None	1
Boraginaceae (Borage Family)	<i>Cryptantha flaccida</i>	CRFL4	Pale Cryptantha	Herb	Native	N/A	None None None	3
Boraginaceae (Borage Family)	<i>Cryptantha intermedia</i>	CRIN8	Common Cryptanth	Herb	Native	N/A	None None None	12
Boraginaceae (Borage Family)	<i>Cryptantha milobakeri</i>	2JMCRMI	Milo Baker's Cryptantha	Herb	Native	N/A	None None None	2
Boraginaceae(Borage Family)	<i>Cryptantha rostellata</i>	CRRO4	Red-Stemmed Cryptantha	Herb	Native	N/A	None None 4.2	1
Boraginaceae (Borage Family)	<i>Cryptantha simulans</i>	CRSI2	Pine Cryptantha	Herb	Native	N/A	None None None	1
Boraginaceae (Borage Family)	<i>Cryptantha torreyana</i>	CRTO4	Torrey's Cryptantha	Herb	Native	N/A	None None None	12
Boraginaceae (Borage Family)	<i>Cryptantha torreyana</i> var. <i>torreyana</i>	2JMCRTOT	Northern Cryptantha	Herb	Native	N/A	None None None	7
Boraginaceae (Borage Family)	<i>Cryptantha watsonii</i>	CRWA2	Watson's Cryptantha	Herb	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Boraginaceae (Borage Family)	<i>Cynoglossum officinale</i>	CYOF	Common Hound's Tongue	Herb	Naturalized	Moderate	None None None	8
Boraginaceae (Borage Family)	<i>Hackelia amethystina</i>	HAAM	Amethyst Stickseed	Herb	Native	N/A	None None 4.3	1
Boraginaceae (Borage Family)	<i>Hackelia californica</i>	HACA	California Stickseed	Herb	Native	N/A	None None None	74
Boraginaceae (Borage Family)	<i>Hackelia micrantha</i>	HAMI	Jessica's Stickseed	Herb	Native	N/A	None None None	8
Boraginaceae (Borage Family)	<i>Hackelia nervosa</i>	HANE	Sierran Stickseed	Herb	Native	N/A	None None None	3
Boraginaceae (Borage Family)	<i>Lappula redowskii</i>	LARE	Stickweed	Herb	Native	N/A	None None None	1
Boraginaceae (Borage Family)	<i>Lithospermum californicum</i>	LICA11	California Stoneseed	Herb	Native	N/A	None None None	4
Boraginaceae (Borage Family)	<i>Lithospermum ruderale</i>	LIRU4	Western Stoneseed	Herb	Native	N/A	None None None	1
Boraginaceae (Borage Family)	<i>Mertensia ciliata</i> var. <i>stomatechoides</i>	MECIS	Streamside Bluebell	Herb	Native	N/A	None None None	1
Boraginaceae (Borage Family)	<i>Myosotis discolor</i>	MYDI	Changing Forget-Me-Not	Herb	Naturalized	N/A	None None None	2

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Boraginaceae (Borage Family)	<i>Myosotis latifolia</i>	MYLA4	Broadleaved Forget-Me-Not	Herb	Naturalized	Limited	None None None	1
Boraginaceae (Borage Family)	<i>Myosotis laxa</i>	MYLA	Bay Forget-Me-Not	Herb	Native	N/A	None None None	5
Boraginaceae (Borage Family)	<i>Myosotis scorpioides</i>	MYSC	Water Forget-Me-Not	Herb	Naturalized	N/A	None None None	2
Boraginaceae (Borage Family)	<i>Plagiobothrys bracteatus</i>	PLBR	Bracted Popcornflower	Herb	Native	N/A	None None None	6
Boraginaceae (Borage Family)	<i>Plagiobothrys cognatus</i>	PLCO10	Cognate Popcornflower	Herb	Native	N/A	None None None	1
Boraginaceae (Borage Family)	<i>Plagiobothrys cusickii</i>	PLCU2	Cusick's Popcornflower	Herb	Native	N/A	None None None	19
Boraginaceae (Borage Family)	<i>Plagiobothrys hispidulus</i>	PLHI7	Harsh Popcornflower	Herb	Native	N/A	None None None	4
Boraginaceae (Borage Family)	<i>Plagiobothrys mollis</i>	PLMO	Creeping Popcornflower	Herb	Native	N/A	None None None	1
Boraginaceae (Borage Family)	<i>Plagiobothrys mollis</i> var. <i>mollis</i>	PLMOM	Downy Popcorn Flower	Herb	Native	N/A	None None None	3
Boraginaceae (Borage Family)	<i>Plagiobothrys stipitatus</i>	PLST	Common Vernal Pool Allocarya	Herb	Native	N/A	None None None	12

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Boraginaceae (Borage Family)	<i>Plagiobothrys stipitatus</i>	PLST	Great Valley Popcornflower	Herb	Native	N/A	None None None	12
Boraginaceae (Borage Family)	<i>Plagiobothrys stipitatus</i> var. <i>micranthus</i>	PLSTM	Common Vernal Pool Allocarya	Herb	Native	N/A	None None None	25
Boraginaceae (Borage Family)	<i>Plagiobothrys stipitatus</i> var. <i>stipitatus</i>	PLSTS	Vernal Pool Allocarya	Herb	Native	N/A	None None None	1
Boraginaceae (Borage Family)	<i>Sonnea hispida</i>	PLHI3	Cascade popcornflower	Herb	Native	N/A	None None None	1
Brassicaceae (Mustard Family)	<i>Alyssum desertorum</i>	ALDE	Desert Alyssum	Herb	Naturalized	N/A	None None None	1
Brassicaceae (Mustard Family)	<i>Alyssum simplex</i>	ALSI8	Alyssum	Herb	Naturalized	N/A	None None None	1
Brassicaceae (Mustard Family)	<i>Arabis eschscholtziana</i>	ARES5	Eschscholtz's Hairy Rockcress	Herb	Native	N/A	None None None	1
Brassicaceae (Mustard Family)	<i>Arabis pycnocarpa</i>	ARPY4	Creamflower Rockcress	Herb	Native	N/A	None None None	1
Brassicaceae (Mustard Family)	<i>Athysanus pusillus</i>	ATPU	Dwarf Athysanus	Herb	Native	N/A	None None None	14
Brassicaceae (Mustard Family)	<i>Barbarea orthoceras</i>	BAOR	Winter Cress	Herb	Native	N/A	None None None	10

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Brassicaceae (Mustard Family)	<i>Barbarea vulgaris</i>	BAVU	Yellow Rocket	Herb	Naturalized	N/A	None None None	1
Brassicaceae (Mustard Family)	<i>Boechera arcuata</i>	2JMBOAR	Arching Rockcress	Herb	Native	N/A	None None None	1
Brassicaceae (Mustard Family)	<i>Boechera breweri</i>	2JMBOBR	Brewer's Rock Cress	Herb	Native	N/A	None None None	1
Brassicaceae (Mustard Family)	<i>Boechera lyallii</i>	BOLY	Lyall's Rockcress	Herb	Native	N/A	None None None	7
Brassicaceae (Mustard Family)	<i>Boechera paupercula</i>	2JMBOPA3	Small-Flowered Rockcress	Herb	Native	N/A	None None None	1
Brassicaceae (Mustard Family)	<i>Boechera pinetorum</i>	2JMBOPI	Woodland Rockcress	Herb	Native	N/A	None None None	5
Brassicaceae (Mustard Family)	<i>Boechera platysperma</i>	2JMBOPL	Pioneer Rockcress	Herb	Native	N/A	None None None	28
Brassicaceae (Mustard Family)	<i>Boechera rectissima</i>	2JMBORE2	Bristly Leaf Rockcress	Herb	Native	N/A	None None None	8
Brassicaceae (Mustard Family)	<i>Boechera retrofracta</i>	BORE6	Reflexed Rockcress	Herb	Native	N/A	None None None	29
Brassicaceae (Mustard Family)	<i>Boechera sparsiflora</i>	BOSP7	Sicklepod Rockcress	Herb	Native	N/A	None None None	6

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Brassicaceae (Mustard Family)	<i>Boechera suffrutescens</i>	2JMBOSU2	Woody Rockcress	Herb	Native	N/A	None None None	9
Brassicaceae (Mustard Family)	<i>Capsella bursa-pastoris</i>	CABU2	Shepherd's Purse	Herb	Naturalized	N/A	None None None	1
Brassicaceae (Mustard Family)	<i>Cardamine bellidifolia</i> var. <i>pachyphylla</i>	CABEP	Alpine Bittercress	Herb	Native	N/A	None None 4.3	1
Brassicaceae (Mustard Family)	<i>Cardamine breweri</i>	CABR6	Brewer's Bitter Cress	Herb	Native	N/A	None None None	3
Brassicaceae (Mustard Family)	<i>Cardamine hirsuta</i>	CAHI3	Hairy Bitter Cress	Herb	Naturalized	N/A	None None None	2
Brassicaceae (Mustard Family)	<i>Cardamine oligosperma</i>	CAOL	Idaho Bittercress	Herb	Native	N/A	None None None	2
Brassicaceae (Mustard Family)	<i>Cardamine pennsylvanica</i>	CAPE3	Pennsylvania Bittercress	Herb	Native	N/A	None None None	2
Brassicaceae (Mustard Family)	<i>Descurainia californica</i>	DECA6	Sierra Tansy Mustard	Herb	Native	N/A	None None None	1
Brassicaceae (Mustard Family)	<i>Descurainia incana</i>	DEIN5	Mountain Tansy Mustard	Herb	Native	N/A	None None None	2
Brassicaceae (Mustard Family)	<i>Descurainia pinnata</i>	DEPI	Yellow Tansy Mustard	Herb	Native	N/A	None None None	4

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Brassicaceae (Mustard Family)	<i>Descurainia pinnata</i> ssp. <i>brachycarpa</i>	DEPIB	Western Tansymustard	Herb	Native	N/A	None None None	2
Brassicaceae (Mustard Family)	<i>Descurainia sophia</i>	DESO2	Herb Sophia	Herb	Naturalized	Limited	None None None	4
Brassicaceae (Mustard Family)	<i>Draba aureola</i>	DRAU2	Golden Alpine Draba	Herb	Native	N/A	None None 1B.3	1
Brassicaceae (Mustard Family)	<i>Draba verna</i>	DRVE2	Whitlow Grass	Herb	Naturalized	N/A	None None None	14
Brassicaceae (Mustard Family)	<i>Erysimum capitatum</i>	ERCA14	Western Wallflower	Herb	Native	N/A	None None None	4
Brassicaceae (Mustard Family)	<i>Erysimum capitatum</i> var. <i>capitatum</i>	ERCAC	Sanddune Wallflower	Herb	Native	N/A	None None None	4
Brassicaceae (Mustard Family)	<i>Idahoia scapigera</i>	IDSC	Oldstem Idahoia	Herb	Native	N/A	None None None	8
Brassicaceae (Mustard Family)	<i>Isatis tinctoria</i>	ISTI	Woad	Herb	Naturalized	Moderate	None None None	1
Brassicaceae (Mustard Family)	<i>Lepidium campestre</i>	LECA5	Field Pepper Grass	Herb	Naturalized	N/A	None None None	17
Brassicaceae (Mustard Family)	<i>Lepidium latifolium</i>	LELA2	Perennial Pepperweed	Herb	Naturalized	High	None None None	4

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Brassicaceae (Mustard Family)	<i>Lepidium nitidum</i>	LENI	Shining Pepper Grass	Herb	Native	N/A	None None None	6
Brassicaceae (Mustard Family)	<i>Lepidium perfoliatum</i>	LEPE2	Klamath Pepper Grass	Herb	Naturalized	N/A	None None None	8
Brassicaceae (Mustard Family)	<i>Nasturtium officinale</i>	NAOF	Water Cress	Herb	Native	N/A	None None None	5
Brassicaceae (Mustard Family)	<i>Phoenicaulis cheiranthoides</i>	PHCH	Dagger Pod	Herb	Native	N/A	None None None	13
Brassicaceae (Mustard Family)	<i>Rorippa curvisiliqua</i>	ROCU	Curvepod Yellow Cress	Herb	Native	N/A	None None None	9
Brassicaceae (Mustard Family)	<i>Rorippa palustris</i>	ROPA2	Bog Yellow Cress	Herb	Native	N/A	None None None	2
Brassicaceae (Mustard Family)	<i>Rorippa palustris</i> ssp. <i>palustris</i>	ROPAP	Bog Yellowcress	Herb	Native	N/A	None None None	3
Brassicaceae (Mustard Family)	<i>Sisymbrium altissimum</i>	SIAL2	Tumble Mustard	Herb	Naturalized	N/A	None None None	15
Brassicaceae (Mustard Family)	<i>Streptanthus polygaloides</i>	STPO2	Milkwort Jewelflower	Herb	Native	N/A	None None None	3
Brassicaceae (Mustard Family)	<i>Streptanthus tortuosus</i>	STTO3	Mountain Jewelflower	Herb	Native	N/A	None None None	22

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Brassicaceae (Mustard Family)	<i>Thelypodium laciniatum</i>	THLA	Feathery Thelypodium	Herb	Native	N/A	None None None	1
Brassicaceae (Mustard Family)	<i>Thlaspi arvense</i>	THAR5	Fan Weed	Herb	Naturalized	N/A	None None None	2
Brassicaceae (Mustard Family)	<i>Thysanocarpus curvipes</i>	THCU	Common Fringe Pod	Herb	Native	N/A	None None None	11
Brassicaceae (Mustard Family)	<i>Thysanocarpus curvipes</i> ssp. <i>curvipes</i>	2JMTHCUC	Fringe Pod	Herb	Native	N/A	None None None	1
Brassicaceae (Mustard Family)	<i>Thysanocarpus radians</i>	THRA	Showy Fringe Pod	Herb	Native	N/A	None None None	2
Brassicaceae (Mustard Family)	<i>Turritis glabra</i>	TUGL	Tower Rockcress	Herb	Native	N/A	None None None	5
Cabombaceae (Water-Shield Family)	<i>Brasenia schreberi</i>	BRSC	Brasenia Schreberi	Herb	Native	N/A	None None 2B.3	1
Calycanthaceae (Strawberry-Shrub Family)	<i>Calycanthus occidentalis</i>	CAOC5	Sweet-Shrub	Shrub	Native	N/A	None None None	4
Campanulaceae (Bellflower Family)	<i>Asyneuma prenanthoides</i>	ASPR10	California Harebell	Herb	Native	N/A	None None None	8
Campanulaceae (Bellflower Family)	<i>Campanula scouleri</i>	CASC7	Scouler's Harebell	Herb	Native	N/A	None None None	3

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Campanulaceae (Bellflower Family)	<i>Downingia bacigalupii</i>	DOBA	Bach's Downingia	Herb	Native	N/A	None None None	48
Campanulaceae (Bellflower Family)	<i>Downingia bicornuta</i>	DOBI	Bristled Downingia	Herb	Native	N/A	None None None	9
Campanulaceae (Bellflower Family)	<i>Downingia bicornuta</i> var. <i>bicornuta</i>	DOBIB	Bristled Downingia	Herb	Native	N/A	None None None	15
Campanulaceae (Bellflower Family)	<i>Downingia cuspidata</i>	DOCU	Toothed Downingia	Herb	Native	N/A	None None None	15
Campanulaceae (Bellflower Family)	<i>Downingia montana</i>	DOMO2	Sierra Downingia	Herb	Native	N/A	None None None	4
Campanulaceae (Bellflower Family)	<i>Downingia pulcherrima</i>	DOPU5	Calicoflower	Herb	Native	N/A	None None None	2
Campanulaceae (Bellflower Family)	<i>Downingia yina</i>	DOYI	Cascade Downingia	Herb	Native	N/A	None None None	1
Campanulaceae (Bellflower Family)	<i>Githopsis diffusa</i>	GIDI2	San Gabriel Bluecup	Herb	Native	N/A	None None None	1
Campanulaceae (Bellflower Family)	<i>Githopsis diffusa</i> ssp. <i>robusta</i>	GIDIR	San Gabriel Bluecup	Herb	Native	N/A	None None None	1
Campanulaceae (Bellflower Family)	<i>Githopsis pulchella</i> ssp. <i>campestris</i>	GIPUC	Sierra Bluecup	Herb	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Campanulaceae (Bellflower Family)	<i>Githopsis specularioides</i>	GISP3	Venus' Looking Glass	Herb	Native	N/A	None None None	1
Campanulaceae (Bellflower Family)	<i>Heterocodon rariflorum</i>	HERA3	Heterocodon	Herb	Native	N/A	None None None	1
Campanulaceae (Bellflower Family)	<i>Porterella carnosula</i>	POCA15	Porterella	Herb	Native	N/A	None None None	1
Caprifoliaceae (Honeysuckle Family)	<i>Lonicera cauriana</i>	LOCA9	Sweet Berry Honeysuckle	Shrub	Native	N/A	None None None	1
Caprifoliaceae (Honeysuckle Family)	<i>Lonicera ciliosa</i>	LOCI3	Orange Honeysuckle	Shrub	Native	N/A	None None None	6
Caprifoliaceae (Honeysuckle Family)	<i>Lonicera conjugialis</i>	LOCO5	Purpleflower Honeysuckle	Shrub	Native	N/A	None None None	13
Caprifoliaceae (Honeysuckle Family)	<i>Lonicera hispidula</i>	LOHI2	Pink Honeysuckle	Shrub	Native	N/A	None None None	2
Caprifoliaceae (Honeysuckle Family)	<i>Lonicera interrupta</i>	LOIN4	Chaparral Honeysuckle	Shrub	Native	N/A	None None None	65
Caprifoliaceae (Honeysuckle Family)	<i>Lonicera involucrata</i>	LOIN5	Twinberry	Shrub	Native	N/A	None None None	3
Caprifoliaceae (Honeysuckle Family)	<i>Lonicera involucrata</i> var. <i>involucrata</i>	LOINI	Twinberry	Shrub	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Caprifoliaceae (Honeysuckle Family)	<i>Symphoricarpos albus</i> var. <i>laevigatus</i>	SYALL	Snowberry	Shrub	Native	N/A	None None None	68
Caprifoliaceae (Honeysuckle Family)	<i>Symphoricarpos mollis</i>	SYMO	Creeping Snowberry	Shrub	Native	N/A	None None None	188
Caprifoliaceae (Honeysuckle Family)	<i>Symphoricarpos rotundifolius</i> var. <i>rotundifolius</i>	SYROR	Roundleaved Snowberry	Shrub	Native	N/A	None None None	32
Caryophyllaceae (Pink Family)	<i>Cerastium glomeratum</i>	CEGL2	Sticky Mouse-Ear Chickweed	Herb	Naturalized	N/A	None None None	4
Caryophyllaceae (Pink Family)	<i>Dianthus armeria</i> ssp. <i>armeria</i>	DIARA2	Grass Pink	Herb	Naturalized	N/A	None None None	6
Caryophyllaceae (Pink Family)	<i>Eremogone congesta</i>	ERCO24	Ballhead Sandwort	Herb	Native	N/A	None None None	1
Caryophyllaceae (Pink Family)	<i>Eremogone congesta</i> var. <i>congesta</i>	ERCOC13	Capitate Sandwort	Herb	Native	N/A	None None None	1
Caryophyllaceae (Pink Family)	<i>Eremogone congesta</i> var. <i>subcongesta</i>	2JMERCOS2	Capitate Sandwort	Herb	Native	N/A	None None None	1
Caryophyllaceae (Pink Family)	<i>Eremogone kingii</i> var. <i>glabrescens</i>	ERKIG	King's Sandwort	Herb	Native	N/A	None None None	1
Caryophyllaceae (Pink Family)	<i>Moehringia macrophylla</i>	MOMA3	Large-Leaved Sandwort	Herb	Native	N/A	None None None	3

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Caryophyllaceae (Pink Family)	<i>Petrorhagia dubia</i>	PEDU2	Windmill Pink	Herb	Naturalized	N/A	None None None	8
Caryophyllaceae (Pink Family)	<i>Sabulina californica</i>	2JMSACA	California Sandwort	Herb	Native	N/A	None None None	3
Caryophyllaceae (Pink Family)	<i>Sabulina douglasii</i>	2JMSADO	Douglas' Stitchwort	Herb	Native	N/A	None None None	37
Caryophyllaceae (Pink Family)	<i>Saponaria officinalis</i>	SAOF4	Bouncing Bet	Herb	Naturalized	Limited	None None None	1
Caryophyllaceae (Pink Family)	<i>Schizotechium jamesianum</i>	2JMSCJA	Tuber Starwort	Herb	Native	N/A	None None None	31
Caryophyllaceae (Pink Family)	<i>Scleranthus annuus</i> ssp. <i>annuus</i>	SCANA5	Knawel	Herb	Naturalized	N/A	None None None	1
Caryophyllaceae (Pink Family)	<i>Silene bernardina</i>	SIBE4	Palmer's Catchfly	Herb	Native	N/A	None None None	1
Caryophyllaceae (Pink Family)	<i>Silene douglasii</i> var. <i>douglasii</i>	SIDOD	Douglas' Catchfly	Herb	Native	N/A	None None None	6
Caryophyllaceae (Pink Family)	<i>Silene grayi</i>	SIGR3	Gray's Catchfly	Herb	Native	N/A	None None None	9
Caryophyllaceae (Pink Family)	<i>Silene laciniata</i> ssp. <i>californica</i>	2JMSILAC	California Pink	Herb	Native	N/A	None None None	2

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Caryophyllaceae (Pink Family)	<i>Silene lemmonii</i>	SILE2	Lemmon's Catchfly	Herb	Native	N/A	None None None	14
Caryophyllaceae (Pink Family)	<i>Silene menziesii</i>	SIME	Menzies' Catchfly	Herb	Native	N/A	None None None	1
Caryophyllaceae (Pink Family)	<i>Silene occidentalis</i>	SIOC	Western Campion	Herb	Native	N/A	None None None	1
Caryophyllaceae (Pink Family)	<i>Silene suksdorfii</i>	SISU	Cascade Alpine Campion	Herb	Native	N/A	None None 2B.3	3
Caryophyllaceae (Pink Family)	<i>Stellaria calycantha</i>	STCA	Northern Starwort	Herb	Native	N/A	None None None	3
Caryophyllaceae (Pink Family)	<i>Stellaria longifolia</i>	STLO	Long-Leaved Starwort	Herb	Native	N/A	None None 2B.2	1
Caryophyllaceae (Pink Family)	<i>Stellaria longipes</i> ssp. <i>longipes</i>	STLOL7	Goldie's Starwort	Herb	Native	N/A	None None None	15
Caryophyllaceae (Pink Family)	<i>Stellaria nitens</i>	STNI	Shining Chickweed	Herb	Native	N/A	None None None	1
Celastraceae (Bittersweet Family)	<i>Euonymus occidentalis</i> var. <i>occidentalis</i>	EUOCO	Western Burning Bush	Shrub	Native	N/A	None None None	1
Celastraceae (Bittersweet Family)	<i>Paxistima myrsinites</i>	PAMY	Oregon Boxwood	Shrub	Native	N/A	None None None	39

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Chenopodiaceae (Goosefoot Family)	<i>Atriplex rosea</i>	ATRO	Tumbling Orach	Herb	Naturalized	N/A	None None None	1
Chenopodiaceae (Goosefoot Family)	<i>Chenopodium album</i>	CHAL7	Lamb's Quarters	Herb	Naturalized	N/A	None None None	3
Chenopodiaceae (Goosefoot Family)	<i>Chenopodium rubrum</i>	CHRU	Red Pigweed	Herb	Native	N/A	None None None	2
Chenopodiaceae (Goosefoot Family)	<i>Dysphania botrys</i>	DYBO	Jerusalem Oak	Herb	Naturalized	N/A	None None None	2
Chenopodiaceae (Goosefoot Family)	<i>Salsola tragus</i>	SATR12	Russian Thistle	Herb	Naturalized	Limited	None None None	1
Chenopodiaceae (Goosefoot Family)	<i>Suaeda calceoliformis</i>	SUCA2	Horned Seablite	Herb	Native	N/A	None None None	1
Cleomaceae (Spiderflower Family)	<i>Polanisia dodecandra</i> ssp. <i>trachysperma</i>	PODOT	Western Clammyweed	Herb	Native	N/A	None None None	1
Comandraceae (Bastard Toadflax Family)	<i>Comandra umbellata</i> ssp. <i>californica</i>	COUMC	Bastard Toadflax	Herb	Native	N/A	None None None	25
Convolvulaceae (Morning-Glory Family)	<i>Calystegia atriplicifolia</i> ssp. <i>buttensis</i>	CAATB	Butte County Morning-Glory	Herb	Native	N/A	None None 4.2	3
Convolvulaceae (Morning-Glory Family)	<i>Calystegia malacophylla</i> ssp. <i>malacophylla</i>	CAMAM4	Sierra Morning Glory	Herb	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Convolvulaceae (Morning-Glory Family)	<i>Calystegia occidentalis</i>	CAOC6	Bush Morning Glory	Herb	Native	N/A	None None None	6
Convolvulaceae (Morning-Glory Family)	<i>Calystegia occidentalis</i> ssp. <i>occidentalis</i>	CAOCO	Modoc Morning Glory	Herb	Native	N/A	None None None	16
Convolvulaceae (Morning-Glory Family)	<i>Convolvulus arvensis</i>	COAR4	Bindweed	Herb	Naturalized	N/A	None None None	1
Convolvulaceae (Morning-Glory Family)	<i>Cuscuta californica</i>	CUCA	Chaparral Dodder	Herb	Native	N/A	None None None	1
Convolvulaceae (Morning-Glory Family)	<i>Cuscuta californica</i> var. <i>californica</i>	CUCAC	Short Flowered Dodder	Herb	Native	N/A	None None None	4
Convolvulaceae (Morning-Glory Family)	<i>Cuscuta howelliana</i>	CUHO	Boggs Lake Dodder	Herb	Native	N/A	None None None	7
Cornaceae (Dogwood Family)	<i>Cornus glabrata</i>	COGL3	Brown Dogwood	Shrub	Native	N/A	None None None	1
Cornaceae (Dogwood Family)	<i>Cornus nuttallii</i>	CONU4	Mountain Dogwood	Tree	Native	N/A	None None None	119
Cornaceae (Dogwood Family)	<i>Cornus sericea</i>	COSE16	American Dogwood	Shrub	Native	N/A	None None None	43
Cornaceae (Dogwood Family)	<i>Cornus sericea</i> ssp. <i>occidentalis</i>	COSEO	Western Dogwood	Shrub	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Cornaceae (Dogwood Family)	<i>Cornus sericea</i> ssp. <i>sericea</i>	COSES	Red Osier Dogwood	Shrub	Native	N/A	None None None	14
Crassulaceae (Stonecrop Family)	<i>Crassula connata</i>	CRCO34	Pygmy-Weed	Herb	Native	N/A	None None None	1
Crassulaceae (Stonecrop Family)	<i>Sedella pumila</i>	SEPU4	Sierra Mock Stonecrop	Herb	Native	N/A	None None None	2
Crassulaceae (Stonecrop Family)	<i>Sedum spathulifolium</i>	SESP	Broadleaf Stonecrop	Herb	Native	N/A	None None None	2
Crassulaceae (Stonecrop Family)	<i>Sedum stenopetalum</i>	SEST2	Narrow Leaf Stonecrop	Herb	Native	N/A	None None None	1
Cucurbitaceae (Cucumber Family)	<i>Marah fabacea</i>	2JMMAFA	California Man-Root	Herb	Native	N/A	None None None	5
Cucurbitaceae (Cucumber Family)	<i>Marah watsonii</i>	MAWA2	Taw Man-Root	Herb	Native	N/A	None None None	6
Cupressaceae (Cypress Family)	<i>Calocedrus decurrens</i>	CADE27	Incense Cedar	Sapling	Native	N/A	None None None	632
Cupressaceae (Cypress Family)	<i>Hesperocyparis bakeri</i>	HEBA5	Baker Cypress	Sapling	Native	N/A	None None 4.2	12
Cupressaceae (Cypress Family)	<i>Hesperocyparis macnabiana</i>	HEMA21	Mcnab Cypress	Seedling	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Cupressaceae (Cypress Family)	<i>Juniperus communis</i>	JUCO6	Common Juniper	Shrub	Native	N/A	None None None	4
Cupressaceae (Cypress Family)	<i>Juniperus occidentalis</i>	JUOC	Western Juniper	Seedling	Native	N/A	None None None	316
Cyperaceae (Sedge Family)	<i>Amphiscirpus nevadensis</i>	AMNE3	Great Basin Bulrush	Herb	Native	N/A	None None None	1
Cyperaceae (Sedge Family)	<i>Carex abrupta</i>	CAAB2	Abrupt-Beaked Sedge	Herb	Native	N/A	None None None	2
Cyperaceae (Sedge Family)	<i>Carex amplifolia</i>	CAAM10	Big-Leaf Sedge	Herb	Native	N/A	None None None	12
Cyperaceae (Sedge Family)	<i>Carex angustata</i>	CAAN15	Narrow-Leaved Sedge	Herb	Native	N/A	None None None	9
Cyperaceae (Sedge Family)	<i>Carex aquatilis</i>	CAAQ	Water Sedge	Herb	Native	N/A	None None None	6
Cyperaceae (Sedge Family)	<i>Carex aquatilis</i> var. <i>aquatilis</i>	CAAQA	Water Sedge	Herb	Native	N/A	None None None	11
Cyperaceae (Sedge Family)	<i>Carex atherodes</i>	CAAT2	Wheat Sedge	Herb	Native	N/A	None None 2B.2	4
Cyperaceae (Sedge Family)	<i>Carex athrostachya</i>	CAAT3	Long-Bracted Sedge	Herb	Native	N/A	None None None	37

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Cyperaceae (Sedge Family)	<i>Carex aurea</i>	CAAU3	Golden Sedge	Herb	Native	N/A	None None None	2
Cyperaceae (Sedge Family)	<i>Carex bolanderi</i>	CABO2	Bolander's Sedge	Herb	Native	N/A	None None None	6
Cyperaceae (Sedge Family)	<i>Carex brainerdii</i>	CABR7	Brainerd's Sedge	Herb	Native	N/A	None None None	42
Cyperaceae (Sedge Family)	<i>Carex breweri</i>	CABR12	Brewer's Sedge	Herb	Native	N/A	None None None	25
Cyperaceae (Sedge Family)	<i>Carex buxbaumii</i>	CABU6	Buxbaum's Sedge	Herb	Native	N/A	None None 4.2	1
Cyperaceae (Sedge Family)	<i>Carex capitata</i>	CACA13	Capitate Sedge	Herb	Native	N/A	None None None	2
Cyperaceae (Sedge Family)	<i>Carex comosa</i>	CACO8	Bristly Sedge	Herb	Native	N/A	None None 2B.1	1
Cyperaceae (Sedge Family)	<i>Carex cusickii</i>	CACU5	Cusick's Sedge	Herb	Native	N/A	None None None	10
Cyperaceae (Sedge Family)	<i>Carex deflexa var. boottii</i>	2JMCADEB	Mountain Mat Sedge	Herb	Native	N/A	None None None	5
Cyperaceae (Sedge Family)	<i>Carex densa</i>	CADE8	Dense Sedge	Herb	Native	N/A	None None None	3

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Cyperaceae (Sedge Family)	<i>Carex diandra</i>	CADI4	Lesser Tussock Sedge	Herb	Native	N/A	None None None	6
Cyperaceae (Sedge Family)	<i>Carex douglasii</i>	CADO2	Douglas' Sedge	Herb	Native	N/A	None None None	26
Cyperaceae (Sedge Family)	<i>Carex echinata</i>	CAEC	Bristle Fruit Sedge	Herb	Native	N/A	None None None	7
Cyperaceae (Sedge Family)	<i>Carex echinata</i> ssp. <i>echinata</i>	CAECE	Star Sedge	Herb	Native	N/A	None None None	28
Cyperaceae (Sedge Family)	<i>Carex feta</i>	CAFE4	Green-Sheathed Sedge	Herb	Native	N/A	None None None	17
Cyperaceae (Sedge Family)	<i>Carex filifolia</i> var. <i>erostrata</i>	CAFIE	Sagebrush Sedge	Herb	Native	N/A	None None None	1
Cyperaceae (Sedge Family)	<i>Carex fracta</i>	CAFR2	Fragile-Sheathed Sedge	Herb	Native	N/A	None None None	10
Cyperaceae (Sedge Family)	<i>Carex geyeri</i>	CAGE2	Geyer's Sedge	Herb	Native	N/A	None None 4.2	19
Cyperaceae (Sedge Family)	<i>Carex halliana</i>	CAHA2	Oregon Sedge	Herb	Native	N/A	None None 2B.3	7
Cyperaceae (Sedge Family)	<i>Carex hassei</i>	CAHA5	Hasse's Sedge	Herb	Native	N/A	None None None	7

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Cyperaceae (Sedge Family)	<i>Carex heteroneura</i>	CAHE8	Smooth-Fruited Sedge	Herb	Native	N/A	None None None	3
Cyperaceae (Sedge Family)	<i>Carex infirminervia</i>	CAIN7	Weakly Veined Sedge	Herb	Native	N/A	None None None	2
Cyperaceae (Sedge Family)	<i>Carex inops</i> ssp. <i>inops</i>	CAINI3	Long-Rhizomed Sedge	Herb	Native	N/A	None None None	31
Cyperaceae (Sedge Family)	<i>Carex integra</i>	CAIN10	Smooth-Beaked Sedge	Herb	Native	N/A	None None None	9
Cyperaceae (Sedge Family)	<i>Carex interior</i>	CAIN11	Inland Sedge	Herb	Native	N/A	None None None	2
Cyperaceae (Sedge Family)	<i>Carex jonesii</i>	CAJO	Jones' Sedge	Herb	Native	N/A	None None None	7
Cyperaceae (Sedge Family)	<i>Carex laeviculmis</i>	CALA13	Smooth-Stemmed Sedge	Herb	Native	N/A	None None None	2
Cyperaceae (Sedge Family)	<i>Carex lasiocarpa</i>	CALA11	Woolly-Fruited Sedge	Herb	Native	N/A	None None 2B.3	3
Cyperaceae (Sedge Family)	<i>Carex lenticularis</i>	CALE8	Lakeshore Sedge	Herb	Native	N/A	None None None	19
Cyperaceae (Sedge Family)	<i>Carex lenticularis</i> var. <i>impressa</i>	CALEI	Tarn Sedge	Herb	Native	N/A	None None None	12

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Cyperaceae (Sedge Family)	<i>Carex lenticularis</i> var. <i>lipocarpa</i>	CALEL3	Lakeshore Sedge	Herb	Native	N/A	None None None	9
Cyperaceae (Sedge Family)	<i>Carex leptopoda</i>	CALE24	Slender-Footed Sedge	Herb	Native	N/A	None None None	15
Cyperaceae (Sedge Family)	<i>Carex limosa</i>	CALI7	Mud Sedge	Herb	Native	N/A	None None 2B.2	2
Cyperaceae (Sedge Family)	<i>Carex luzulifolia</i>	CALU6	Little-Leaved Sedge	Herb	Native	N/A	None None None	2
Cyperaceae (Sedge Family)	<i>Carex luzulina</i>	CALU7	Woodrush Sedge	Herb	Native	N/A	None None None	9
Cyperaceae (Sedge Family)	<i>Carex microptera</i>	CAMI7	Small-Winged Sedge	Herb	Native	N/A	None None None	4
Cyperaceae (Sedge Family)	<i>Carex multicaulis</i>	CAMU5	Stick Sedge	Herb	Native	N/A	None None None	74
Cyperaceae (Sedge Family)	<i>Carex multicosata</i>	CAMU6	Many-Ribbed Sedge	Herb	Native	N/A	None None None	7
Cyperaceae (Sedge Family)	<i>Carex nebrascensis</i>	CANE2	Nebraska Sedge	Herb	Native	N/A	None None None	106
Cyperaceae (Sedge Family)	<i>Carex nervina</i>	CANE5	Sierra Sedge	Herb	Native	N/A	None None None	9

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Cyperaceae (Sedge Family)	<i>Carex neurophora</i>	CANE6	Alpine Nerved Sedge	Herb	Native	N/A	None None None	1
Cyperaceae (Sedge Family)	<i>Carex nigricans</i>	CANI2	Black Alpine Sedge	Herb	Native	N/A	None None None	9
Cyperaceae (Sedge Family)	<i>Carex nudata</i>	CANU5	Torrent Sedge	Herb	Native	N/A	None None None	27
Cyperaceae (Sedge Family)	<i>Carex pachycarpa</i>	CAPA58	Furrowed Broomsedge	Herb	Native	N/A	None None None	2
Cyperaceae (Sedge Family)	<i>Carex pachystachya</i>	CAPA14	Starry Broomsedge	Herb	Native	N/A	None None None	17
Cyperaceae (Sedge Family)	<i>Carex pellita</i>	CAPE42	Woolly Sedge	Herb	Native	N/A	None None None	24
Cyperaceae (Sedge Family)	<i>Carex phaeocephala</i>	CAPH2	Alpine Hare Sedge	Herb	Native	N/A	None None None	2
Cyperaceae (Sedge Family)	<i>Carex praegracilis</i>	CAPR5	Freeway Sedge	Herb	Native	N/A	None None None	10
Cyperaceae (Sedge Family)	<i>Carex praticola</i>	CAPR7	Northern Meadow Sedge	Herb	Native	N/A	None None 2B.2	1
Cyperaceae (Sedge Family)	<i>Carex raynoldsii</i>	CARA6	Raynold's Sedge	Herb	Native	N/A	None None None	5

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Cyperaceae (Sedge Family)	<i>Carex rossii</i>	CARO5	Ross' Sedge	Herb	Native	N/A	None None None	259
Cyperaceae (Sedge Family)	<i>Carex scopulorum</i> var. <i>bracteosa</i>	CASCB	Mountain Sedge	Herb	Native	N/A	None None None	7
Cyperaceae (Sedge Family)	<i>Carex simulata</i>	CASI2	Analog Sedge	Herb	Native	N/A	None None None	12
Cyperaceae (Sedge Family)	<i>Carex specifica</i>	CASP4	Narrow-Fruited Sedge	Herb	Native	N/A	None None None	1
Cyperaceae (Sedge Family)	<i>Carex spectabilis</i>	CASP5	Showy Sedge	Herb	Native	N/A	None None None	6
Cyperaceae (Sedge Family)	<i>Carex stipata</i>	CAST5	Awlfruit Sedge	Herb	Native	N/A	None None None	1
Cyperaceae (Sedge Family)	<i>Carex stramineiformis</i>	CAST7	Mount Shasta Sedge	Herb	Native	N/A	None None None	9
Cyperaceae (Sedge Family)	<i>Carex subfusca</i>	CASU6	Pale Broomsedge	Herb	Native	N/A	None None None	55
Cyperaceae (Sedge Family)	<i>Carex tumulicola</i>	CATU3	Foothill Sedge	Herb	Native	N/A	None None None	1
Cyperaceae (Sedge Family)	<i>Carex utriculata</i>	CAUT	Southern Beaked Sedge	Herb	Native	N/A	None None None	53

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Cyperaceae (Sedge Family)	<i>Carex vesicaria</i>	CAVE6	Inflated Sedge	Herb	Native	N/A	None None None	11
Cyperaceae (Sedge Family)	<i>Carex vulpinoidea</i>	CAVU2	Brown Fox Sedge	Herb	Naturalized	N/A	None None None	1
Cyperaceae (Sedge Family)	<i>Carex whitneyi</i>	CAWH	Whitney's Sedge	Herb	Native	N/A	None None None	18
Cyperaceae (Sedge Family)	<i>Cyperus eragrostis</i>	CYER	Tall Cyperus	Herb	Native	N/A	None None None	2
Cyperaceae (Sedge Family)	<i>Cyperus squarrosus</i>	CYSQ	Awned Cyperus	Herb	Native	N/A	None None None	3
Cyperaceae (Sedge Family)	<i>Dulichium arundinaceum</i> var. <i>arundinaceum</i>	DUARA	Three-Way Sedge	Herb	Native	N/A	None None None	4
Cyperaceae (Sedge Family)	<i>Eleocharis acicularis</i>	ELAC	Needle Spikerush	Herb	Native	N/A	None None None	34
Cyperaceae (Sedge Family)	<i>Eleocharis acicularis</i> var. <i>acicularis</i>	ELACA	Needle Spike Rush	Herb	Native	N/A	None None None	42
Cyperaceae (Sedge Family)	<i>Eleocharis acicularis</i> var. <i>occidentalis</i>	ELACO	Needle Spike Rush	Herb	Native	N/A	None None None	3
Cyperaceae (Sedge Family)	<i>Eleocharis bella</i>	ELBE	Beautiful Spikerush	Herb	Native	N/A	None None None	52

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Cyperaceae (Sedge Family)	<i>Eleocharis bolanderi</i>	ELBO	Bolander's Spikerush	Herb	Native	N/A	None None None	1
Cyperaceae (Sedge Family)	<i>Eleocharis decumbens</i>	ELDE2	Decumbent Spikerush	Herb	Native	N/A	None None None	1
Cyperaceae (Sedge Family)	<i>Eleocharis engelmannii</i>	ELEN	Engelmann's Spikerush	Herb	Native	N/A	None None None	2
Cyperaceae (Sedge Family)	<i>Eleocharis engelmannii</i> var. <i>engelmannii</i>	2JMELENE	Engelmann's Spikerush	Herb	Native	N/A	None None None	4
Cyperaceae (Sedge Family)	<i>Eleocharis macrostachya</i>	ELMA5	Spike Rush	Herb	Native	N/A	None None None	117
Cyperaceae (Sedge Family)	<i>Eleocharis parishii</i>	ELPA4	Parish's Spike Rush	Herb	Native	N/A	None None None	7
Cyperaceae (Sedge Family)	<i>Eleocharis quinqueflora</i>	ELQU2	Fewflower Spikerush	Herb	Native	N/A	None None None	8
Cyperaceae (Sedge Family)	<i>Eleocharis rostellata</i>	ELRO2	Walking Sedge	Herb	Native	N/A	None None None	2
Cyperaceae (Sedge Family)	<i>Eleocharis suksdorfiana</i>	ELSU2	Suksdorf's Spikerush	Herb	Native	N/A	None None None	6
Cyperaceae (Sedge Family)	<i>Eriophorum gracile</i>	ERGR8	Slender Cottongrass	Herb	Native	N/A	None None 4.3	4

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Cyperaceae (Sedge Family)	<i>Isolepis cernua</i>	ISCE	Low Bulrush	Herb	Native	N/A	None None None	1
Cyperaceae (Sedge Family)	<i>Schoenoplectus acutus</i> var. <i>occidentalis</i>	SCACO2	Common Tule	Herb	Native	N/A	None None None	23
Cyperaceae (Sedge Family)	<i>Scirpus congdonii</i>	SCCO	Congdon's Bulrush	Herb	Native	N/A	None None None	2
Cyperaceae (Sedge Family)	<i>Scirpus diffusus</i>	SCDI	Diffuse Rush	Herb	Native	N/A	None None None	3
Cyperaceae (Sedge Family)	<i>Scirpus microcarpus</i>	SCMI2	Small Fruited Bulrush	Herb	Native	N/A	None None None	50
Cystopteridaceae (Fragile Fern Family)	<i>Cystopteris fragilis</i>	CYFR2	Brittle Fern	Herb	Native	N/A	None None None	6
Datisceae (Datisca Family)	<i>Datisca glomerata</i>	DAGL2	Durango Root	Herb	Native	N/A	None None None	2
Dennstaedtiaceae (Bracken Fern Family)	<i>Pteridium aquilinum</i> var. <i>pubescens</i>	PTAQP2	Western Bracken Fern	Herb	Native	N/A	None None None	114
Dipsacaceae (Teasel Family)	<i>Dipsacus fullonum</i>	DIFU2	Wild Teasel	Herb	Naturalized	Moderate	None None None	7
Droseraceae (Sundew Family)	<i>Drosera anglica</i>	DRAN	English Sundew	Herb	Native	N/A	None None 2B.3	3

Appendix D. List of All Plant Taxa and Non-vascular Classes

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Droseraceae (Sundew Family)	<i>Drosera rotundifolia</i>	DRRO	Round-Leaved Sundew	Herb	Native	N/A	None None None	7
Dryopteridaceae (Wood Fern Family)	<i>Dryopteris arguta</i>	DRAR3	Wood Fern	Herb	Native	N/A	None None None	2
Dryopteridaceae (Wood Fern Family)	<i>Polystichum imbricans</i>	POIM	Narrow Leaved Sword Fern	Herb	Native	N/A	None None None	4
Dryopteridaceae (Wood Fern Family)	<i>Polystichum imbricans</i> ssp. <i>imbricans</i>	POIMI	Rock Sword Fern	Herb	Native	N/A	None None None	4
Dryopteridaceae (Wood Fern Family)	<i>Polystichum munitum</i>	POMU	Western Sword Fern	Herb	Native	N/A	None None None	3
Equisetaceae (Horsetail Family)	<i>Equisetum arvense</i>	EQAR	Common Horsetail	Herb	Native	N/A	None None None	77
Equisetaceae (Horsetail Family)	<i>Equisetum hyemale</i> ssp. <i>affine</i>	EQHYA2	Common Scouring Rush	Herb	Native	N/A	None None None	14
Equisetaceae (Horsetail Family)	<i>Equisetum laevigatum</i>	EQLA	Smooth Scouring Rush	Herb	Native	N/A	None None None	9
Equisetaceae (Horsetail Family)	<i>Equisetum telmateia</i> ssp. <i>braunii</i>	EQTEB2	Giant Horsetail	Herb	Native	N/A	None None None	7
Ericaceae (Heath Family)	<i>Allotropa virgata</i>	ALVI2	Sugarstick	Herb	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Ericaceae (Heath Family)	<i>Arctostaphylos manzanita</i>	ARMA	Common Manzanita	Shrub	Native	N/A	None None None	4
Ericaceae (Heath Family)	<i>Arctostaphylos manzanita</i>	ARMA	Common Manzanita	Shrub	Native	N/A	None None None	4
Ericaceae (Heath Family)	<i>Arctostaphylos manzanita</i> <i>ssp. manzanita</i>	ARMAM2	Common Manzanita	Shrub	Native	N/A	None None None	2
Ericaceae (Heath Family)	<i>Arctostaphylos manzanita</i> <i>ssp. wieslanderi</i>	ARMAW	Wieslander's Manzanita	Shrub	Native	N/A	None None None	19
Ericaceae (Heath Family)	<i>Arctostaphylos nevadensis</i>	ARNE	Pine Mat Manzanita	Shrub	Native	N/A	None None None	61
Ericaceae (Heath Family)	<i>Arctostaphylos nevadensis</i> <i>ssp. nevadensis</i>	2JMARNEN	Pine-Mat Manzanita	Shrub	Native	N/A	None None None	39
Ericaceae (Heath Family)	<i>Arctostaphylos patula</i>	ARPA6	Greenleaf Manzanita	Shrub	Native	N/A	None None None	345
Ericaceae (Heath Family)	<i>Arctostaphylos uva-ursi</i>	ARUV	Bear-Berry	Shrub	Native	N/A	None None None	2
Ericaceae (Heath Family)	<i>Arctostaphylos viscida</i>	ARVI4	Whiteleaf Manzanita	Shrub	Native	N/A	None None None	9
Ericaceae (Heath Family)	<i>Arctostaphylos viscida</i> <i>ssp.</i> <i>viscida</i>	ARVIV	Smooth White Leaf Manzanita	Shrub	Native	N/A	None None None	17

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Ericaceae (Heath Family)	<i>Chimaphila menziesii</i>	CHME	Little Prince's Pine	Herb	Native	N/A	None None None	33
Ericaceae (Heath Family)	<i>Chimaphila umbellata</i>	CHUM	Prince's Pine	Herb	Native	N/A	None None None	68
Ericaceae (Heath Family)	<i>Kalmia polifolia</i>	KAPO	Swamp Laurel	Shrub	Native	N/A	None None None	7
Ericaceae (Heath Family)	<i>Leucothoe davisiae</i>	LEDA	Sierra Laurel	Shrub	Native	N/A	None None None	3
Ericaceae (Heath Family)	<i>Monotropa hypopitys</i>	MOHY3	Pinesap	Herb	Native	N/A	None None None	1
Ericaceae (Heath Family)	<i>Orthilia secunda</i>	ORSE	One-Sided Wintergreen	Herb	Native	N/A	None None None	9
Ericaceae (Heath Family)	<i>Phyllodoce breweri</i>	PHBR4	Brewer's Mountain Heather	Shrub	Native	N/A	None None None	8
Ericaceae (Heath Family)	<i>Phyllodoce empetrifomis</i>	PHEM	Klamath Mountain Heather	Shrub	Native	N/A	None None None	10
Ericaceae (Heath Family)	<i>Pleuricospora fimbriolata</i>	PLFI2	Fringed Pinesap	Herb	Native	N/A	None None None	1
Ericaceae (Heath Family)	<i>Pterospora andromedea</i>	PTAN2	Pine Drops	Herb	Native	N/A	None None None	21

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Ericaceae (Heath Family)	<i>Pyrola asarifolia</i>	PYAS	Bog Wintergreen	Herb	Native	N/A	None None None	4
Ericaceae (Heath Family)	<i>Pyrola asarifolia</i> ssp. <i>asarifolia</i>	PYASA	Bog Wintergreen	Herb	Native	N/A	None None None	1
Ericaceae (Heath Family)	<i>Pyrola dentata</i>	PYDE	Toothed Wintergreen	Herb	Native	N/A	None None None	15
Ericaceae (Heath Family)	<i>Pyrola picta</i>	PYPI2	White-Veined Wintergreen	Herb	Native	N/A	None None None	64
Ericaceae (Heath Family)	<i>Rhododendron columbianum</i>	RHCO18	Western Labrador Tea	Shrub	Native	N/A	None None None	4
Ericaceae (Heath Family)	<i>Rhododendron occidentale</i>	RHOC	California Azalea	Shrub	Native	N/A	None None None	7
Ericaceae (Heath Family)	<i>Sarcodes sanguinea</i>	SASA5	Snow Plant	Herb	Native	N/A	None None None	5
Ericaceae (Heath Family)	<i>Vaccinium cespitosum</i>	VACE	Dwarf Bilberry	Shrub	Native	N/A	None None None	3
Ericaceae (Heath Family)	<i>Vaccinium membranaceum</i>	VAME	Thinleaf Huckleberry	Shrub	Native	N/A	None None None	1
Ericaceae (Heath Family)	<i>Vaccinium uliginosum</i> ssp. <i>occidentale</i>	VAULO	Western Blueberry	Shrub	Native	N/A	None None None	18

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Euphorbiaceae (Spurge Family)	<i>Croton setiger</i>	2JMCRSE	Doveweed	Herb	Native	N/A	None None None	24
Euphorbiaceae (Spurge Family)	<i>Euphorbia crenulata</i>	EUCR2	Chinese Caps	Herb	Native	N/A	None None None	3
Euphorbiaceae (Spurge Family)	<i>Euphorbia peplus</i>	EUPE6	Petty Spurge	Herb	Naturalized	N/A	None None None	1
Euphorbiaceae (Spurge Family)	<i>Euphorbia serpillifolia</i>	2JMEUSE	Thyme-Leafed Spurge	Herb	Native	N/A	None None None	4
Euphorbiaceae (Spurge Family)	<i>Euphorbia serpillifolia</i> ssp. <i>serpillifolia</i>	2JMEUSES	Thyme Leafed Spurge	Herb	Native	N/A	None None None	2
Fabaceae (Pea Family)	<i>Acmispon americanus</i> var. <i>americanus</i>	2JMACAMA	Spanish Lotus	Herb	Native	N/A	None None None	47
Fabaceae (Pea Family)	<i>Acmispon brachycarpus</i>	2JMACBR	Short Podded Lotus	Herb	Native	N/A	None None None	8
Fabaceae (Pea Family)	<i>Acmispon decumbens</i> var. <i>decumbens</i>	2JMACDED2	Sierra Nevada Lotus	Herb	Native	N/A	None None None	3
Fabaceae (Pea Family)	<i>Acmispon denticulatus</i>	2JMACDE2	Toothed Lotus	Herb	Native	N/A	None None None	4
Fabaceae (Pea Family)	<i>Acmispon nevadensis</i> var. <i>nevadensis</i>	2JMACNEN	Sierra Nevada Lotus	Herb	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Fabaceae (Pea Family)	<i>Acmispon parviflorus</i>	2JMACPA	Hill Lotus	Herb	Native	N/A	None None None	14
Fabaceae (Pea Family)	<i>Acmispon wrangelianus</i>	2JMACWR	Chilean Trefoil	Herb	Native	N/A	None None None	16
Fabaceae (Pea Family)	<i>Astragalus accidens</i> var. <i>hendersonii</i>	ASACH	Henderson's Milk Vetch	Herb	Native	N/A	None None None	2
Fabaceae (Pea Family)	<i>Astragalus californicus</i>	ASCA7	Klamath Milkvetch	Herb	Native	N/A	None None None	3
Fabaceae (Pea Family)	<i>Astragalus curvicaarpus</i> var. <i>curvicaarpus</i>	ASCUC	Sickle Milkvetch	Herb	Native	N/A	None None None	3
Fabaceae (Pea Family)	<i>Astragalus filipes</i>	ASF1	Basalt Milkvetch	Herb	Native	N/A	None None None	2
Fabaceae (Pea Family)	<i>Astragalus lentiginosus</i>	ASLE8	Freckled Milkvetch	Herb	Native	N/A	None None None	1
Fabaceae (Pea Family)	<i>Astragalus lentiginosus</i> var. <i>lentiginosus</i>	ASLEL3	Freckled Milk Vetch	Herb	Native	N/A	None None None	6
Fabaceae (Pea Family)	<i>Astragalus lentiginosus</i> var. <i>salinus</i>	ASLES	Sagebrush Milk Vetch	Herb	Native	N/A	None None None	1
Fabaceae (Pea Family)	<i>Astragalus pauperculus</i>	ASPA15	Depauperate Milkvetch	Herb	Native	N/A	None None 4.3	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Fabaceae (Pea Family)	<i>Astragalus pulsiferae</i> A. Gray	ASPU7	Pulsifer's Milkvetch	Herb	Native	N/A	None None 1B.2	1
Fabaceae (Pea Family)	<i>Astragalus purshii</i>	ASPU9	Pursh's Milkvetch	Herb	Native	N/A	None None None	12
Fabaceae (Pea Family)	<i>Astragalus purshii</i> var. <i>lagopinus</i>	ASPUL	Pursh's Milk Vetch	Herb	Native	N/A	None None None	1
Fabaceae (Pea Family)	<i>Astragalus purshii</i> var. <i>purshii</i>	ASPUP7	Pursh's Milk Vetch	Herb	Native	N/A	None None None	2
Fabaceae (Pea Family)	<i>Astragalus purshii</i> var. <i>tinctus</i>	ASPUT	Pursh's Milk Vetch	Herb	Native	N/A	None None None	3
Fabaceae (Pea Family)	<i>Astragalus whitneyi</i> var. <i>confusus</i>	ASWHC	Whitney's Milk Vetch	Herb	Native	N/A	None None None	1
Fabaceae (Pea Family)	<i>Cercis occidentalis</i>	CEOC3	Western Redbud	Shrub	Native	N/A	None None None	35
Fabaceae (Pea Family)	<i>Cytisus scoparius</i>	CYSC4	Scotch Broom	Shrub	Naturalized	High	None None None	1
Fabaceae (Pea Family)	<i>Genista monspessulana</i>	GEMO2	French Broom	Shrub	Naturalized	High	None None None	1
Fabaceae (Pea Family)	<i>Hoita macrostachya</i>	HOMA4	California Hemp	Herb	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Fabaceae (Pea Family)	<i>Hoita orbicularis</i>	HOOR	Creeping Leather Root	Herb	Native	N/A	None None None	1
Fabaceae (Pea Family)	<i>Hosackia crassifolia</i>	HOCR2	Broad Leaved Lotus	Herb	Native	N/A	None None None	2
Fabaceae (Pea Family)	<i>Hosackia crassifolia</i> var. <i>crassifolia</i>	2JMHOCRC	Broad Leaved Lotus	Herb	Native	N/A	None None None	1
Fabaceae (Pea Family)	<i>Hosackia oblongifolia</i>	HOOB2	Narrow Leaved Lotus	Herb	Native	N/A	None None None	11
Fabaceae (Pea Family)	<i>Hosackia oblongifolia</i> var. <i>oblongifolia</i>	2JMHOOBO	Narrow Leaved Lotus	Herb	Native	N/A	None None None	4
Fabaceae (Pea Family)	<i>Hosackia pinnata</i>	HOPI	Pinnate Lotus	Herb	Native	N/A	None None None	6
Fabaceae (Pea Family)	<i>Lathyrus brownii</i>	LABR2	Brown's Brush Pea	Herb	Native	N/A	None None None	5
Fabaceae (Pea Family)	<i>Lathyrus lanszwertii</i>	LALA3	Nevada Pea	Herb	Native	N/A	None None None	15
Fabaceae (Pea Family)	<i>Lathyrus lanszwertii</i> var. <i>aridus</i>	LALAA	Dryland Nevada Pea	Herb	Native	N/A	None None None	3
Fabaceae (Pea Family)	<i>Lathyrus lanszwertii</i> var. <i>lanszwertii</i>	LALAL2	Nevada Pea	Herb	Native	N/A	None None None	2

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Fabaceae (Pea Family)	<i>Lathyrus lanszwertii</i> var. <i>tracyi</i>	LALAT	Tracy's Nevada Pea	Herb	Native	N/A	None None None	1
Fabaceae (Pea Family)	<i>Lathyrus latifolius</i>	LALA4	Perennial Sweet Pea	Herb	Naturalized	Watch List	None None None	4
Fabaceae (Pea Family)	<i>Lathyrus nevadensis</i> var. <i>nevadensis</i>	LANEN3	Sierra Nevada Pea	Herb	Native	N/A	None None None	23
Fabaceae (Pea Family)	<i>Lathyrus sulphureus</i>	LASU	Sulphur Pea	Herb	Native	N/A	None None None	2
Fabaceae (Pea Family)	<i>Lathyrus sulphureus</i> var. <i>sulphureus</i>	LASUS	Sulphur Pea	Herb	Native	N/A	None None None	1
Fabaceae (Pea Family)	<i>Lotus corniculatus</i>	LOCO6	Bird's-Foot Trefoil	Herb	Naturalized	N/A	None None None	10
Fabaceae (Pea Family)	<i>Lupinus albicaulis</i>	LUAL3	Sickle Keeled Lupine	Herb	Native	N/A	None None None	1
Fabaceae (Pea Family)	<i>Lupinus albifrons</i>	LUAL4	Silver Bush Lupine	Shrub	Native	N/A	None None None	1
Fabaceae (Pea Family)	<i>Lupinus albifrons</i> var. <i>albifrons</i>	LUALA2	Silver Bush Lupine	Shrub	Native	N/A	None None None	1
Fabaceae (Pea Family)	<i>Lupinus andersonii</i>	LUAN2	Anderson's Lupine	Herb	Native	N/A	None None None	2

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Fabaceae (Pea Family)	<i>Lupinus angustiflorus</i>	LUAN3	Narrow Flowered Lupine	Herb	Native	N/A	None None None	18
Fabaceae (Pea Family)	<i>Lupinus apertus</i>	LUAP	Summit Lupine	Herb	Native	N/A	None None None	2
Fabaceae (Pea Family)	<i>Lupinus argenteus</i>	LUAR3	Silvery Lupine	Herb	Native	N/A	None None None	20
Fabaceae (Pea Family)	<i>Lupinus argenteus</i> var. <i>argenteus</i>	2JMLUARA	Silvery Lupine	Herb	Native	N/A	None None None	9
Fabaceae (Pea Family)	<i>Lupinus argenteus</i> var. <i>heteranthus</i>	LUARH4	Silver Spurred Lupine	Herb	Native	N/A	None None None	5
Fabaceae (Pea Family)	<i>Lupinus bicolor</i>	LUBI	Miniature Lupine	Herb	Native	N/A	None None None	7
Fabaceae (Pea Family)	<i>Lupinus breweri</i> var. <i>bryoides</i>	LUBRB	Matted Brewer's Lupine	Herb	Native	N/A	None None None	2
Fabaceae (Pea Family)	<i>Lupinus latifolius</i>	LULA4	Broad Leaf Lupine	Herb	Native	N/A	None None None	4
Fabaceae (Pea Family)	<i>Lupinus lepidus</i>	LULE2	Tidy Lupine	Herb	Native	N/A	None None None	14
Fabaceae (Pea Family)	<i>Lupinus lepidus</i> var. <i>confertus</i>	LULEC6	Clustered Tidy Lupine	Herb	Native	N/A	None None None	9

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Fabaceae (Pea Family)	<i>Lupinus lepidus</i> var. <i>lobbii</i>	LULEL3	Lobb's Dwarf Lupine	Herb	Native	N/A	None None None	9
Fabaceae (Pea Family)	<i>Lupinus lepidus</i> var. <i>sellulus</i>	LULES2	Donner Lake Lupine	Herb	Native	N/A	None None None	31
Fabaceae (Pea Family)	<i>Lupinus leucophyllus</i>	LULE3	Velvet Lupine	Herb	Native	N/A	None None None	5
Fabaceae (Pea Family)	<i>Lupinus microcarpus</i>	LUMI9	Chick Lupine	Herb	Native	N/A	None None None	2
Fabaceae (Pea Family)	<i>Lupinus microcarpus</i> var. <i>microcarpus</i>	LUMIM4	Shaggy Haired Chick Lupine	Herb	Native	N/A	None None None	4
Fabaceae (Pea Family)	<i>Lupinus obtusilobus</i>	LUOB	Satin Lupine	Herb	Native	N/A	None None None	40
Fabaceae (Pea Family)	<i>Lupinus polyphyllus</i>	LUPO2	Bog Lupine	Herb	Native	N/A	None None None	9
Fabaceae (Pea Family)	<i>Lupinus polyphyllus</i> var. <i>burkei</i>	LUPOB3	Burke's Lupine	Herb	Native	N/A	None None None	9
Fabaceae (Pea Family)	<i>Medicago lupulina</i>	MELU	Black Medick	Herb	Naturalized	N/A	None None None	2
Fabaceae (Pea Family)	<i>Medicago praecox</i>	MEPR	Mediterranean Medick	Herb	Naturalized	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Fabaceae (Pea Family)	<i>Melilotus albus</i>	MEAL2	White Sweetclover	Herb	Naturalized	N/A	None None None	7
Fabaceae (Pea Family)	<i>Melilotus officinalis</i>	MEOF	Yellow Sweetclover	Herb	Naturalized	N/A	None None None	2
Fabaceae (Pea Family)	<i>Pickeringia montana</i>	PIMO5	Chaparral Pea	Shrub	Native	N/A	None None None	1
Fabaceae (Pea Family)	<i>Robinia pseudoacacia</i>	ROPS	Black Locust	Tree	Naturalized	Limited	None None None	1
Fabaceae (Pea Family)	<i>Spartium junceum</i>	SPJU2	Spanish Broom	Shrub	Naturalized	High	None None None	1
Fabaceae (Pea Family)	<i>Thermopsis californica</i>	THCA4	California Goldenbanner	Herb	Native	N/A	None None None	1
Fabaceae (Pea Family)	<i>Thermopsis californica</i> var. <i>argentata</i>	THCAA	Silvery False-Lupine	Herb	Native	N/A	None None None	3
Fabaceae (Pea Family)	<i>Trifolium albopurpureum</i>	TRAL5	Indian Clover	Herb	Native	N/A	None None None	2
Fabaceae (Pea Family)	<i>Trifolium bifidum</i>	TRBI	Pinole Clover	Herb	Native	N/A	None None None	5
Fabaceae (Pea Family)	<i>Trifolium campestre</i>	TRCA5	Hop Clover	Herb	Naturalized	N/A	None None None	2

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Fabaceae (Pea Family)	<i>Trifolium cyathiferum</i>	TRCY	Bowl Clover	Herb	Native	N/A	None None None	19
Fabaceae (Pea Family)	<i>Trifolium depauperatum</i>	TRDE	Dwarf Sack Clover	Herb	Native	N/A	None None None	1
Fabaceae (Pea Family)	<i>Trifolium dubium</i>	TRDU2	Little Hop Clover	Herb	Naturalized	N/A	None None None	1
Fabaceae (Pea Family)	<i>Trifolium eriocephalum</i> ssp. <i>eriocephalum</i>	TRERE	Hairy Head Clover	Herb	Native	N/A	None None None	7
Fabaceae (Pea Family)	<i>Trifolium hirtum</i>	TRHI4	Rose Clover	Herb	Naturalized	Limited	None None None	15
Fabaceae (Pea Family)	<i>Trifolium kingii</i>	TRKI	King's Clover	Herb	Native	N/A	None None None	1
Fabaceae (Pea Family)	<i>Trifolium longipes</i>	TRLO	Long-Stalked Clover	Herb	Native	N/A	None None None	56
Fabaceae (Pea Family)	<i>Trifolium longipes</i> ssp. <i>elmeri</i>	TRLOE	Elmer's Clover	Herb	Native	N/A	None None None	2
Fabaceae (Pea Family)	<i>Trifolium longipes</i> ssp. <i>hansenii</i>	TRLOH	Hansen's Clover	Herb	Native	N/A	None None None	25

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Fabaceae (Pea Family)	<i>Trifolium longipes</i> ssp. <i>oreganum</i>	TRLOO	Oregon Clover	Herb	Native	N/A	None None None	2
Fabaceae (Pea Family)	<i>Trifolium macrocephalum</i>	TRMA3	Large-Head Clover	Herb	Native	N/A	None None None	3
Fabaceae (Pea Family)	<i>Trifolium microcephalum</i>	TRMI4	Small-Head Clover	Herb	Native	N/A	None None None	5
Fabaceae (Pea Family)	<i>Trifolium monanthum</i>	TRMO2	Carpet Clover	Herb	Native	N/A	None None None	2
Fabaceae (Pea Family)	<i>Trifolium monanthum</i> ssp. <i>monanthum</i>	TRMOM	Carpet Clover	Herb	Native	N/A	None None None	3
Fabaceae (Pea Family)	<i>Trifolium pratense</i>	TRPR2	Red Clover	Herb	Naturalized	N/A	None None None	5
Fabaceae (Pea Family)	<i>Trifolium repens</i>	TRRE3	White Clover	Herb	Naturalized	N/A	None None None	8
Fabaceae (Pea Family)	<i>Trifolium variegatum</i>	TRVA	Variegated Clover	Herb	Native	N/A	None None None	9
Fabaceae (Pea Family)	<i>Trifolium willdenovii</i>	TRWI3	Tomcat Clover	Herb	Native	N/A	None None None	6
Fabaceae (Pea Family)	<i>Trifolium wormskioldii</i>	TRWO	Cow Clover	Herb	Native	N/A	None None None	12

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Fabaceae (Pea Family)	<i>Vicia americana</i> ssp. <i>americana</i>	VIAMA3	American Vetch	Herb	Native	N/A	None None None	76
Fabaceae (Pea Family)	<i>Vicia sativa</i>	VISA	Spring Vetch	Herb	Naturalized	N/A	None None None	2
Fabaceae (Pea Family)	<i>Vicia villosa</i>	VIVI	Hairy Vetch	Herb	Naturalized	N/A	None None None	3
Fabaceae (Pea Family)	<i>Vicia villosa</i> ssp. <i>villosa</i>	VIVIV	Hairy Vetch	Herb	Naturalized	N/A	None None None	1
Fagaceae (Beech Family)	<i>Chrysolepis sempervirens</i>	CHSE11	Bush Chinquapin	Shrub	Native	N/A	None None None	173
Fagaceae (Beech Family)	<i>Notholithocarpus densiflorus</i>	NODE3	Tanoak	Sapling	Native	N/A	None None None	14
Fagaceae (Beech Family)	<i>Quercus berberidifolia</i>	QUBE5	Scrub Oak	Shrub	Native	N/A	None None None	5
Fagaceae (Beech Family)	<i>Quercus chrysolepis</i>	QUCH2	Maul Oak	Sapling	Native	N/A	None None None	106
Fagaceae (Beech Family)	<i>Quercus douglasii</i>	QUDO	Blue Oak	Tree	Native	N/A	None None None	38
Fagaceae (Beech Family)	<i>Quercus douglasii</i> x <i>Q. garryana</i>	QUERC	Blue Oak X Oregon Oak	Tree	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Fagaceae (Beech Family)	<i>Quercus garryana</i>	QUGA4	Oregon Oak	Seedling	Native	N/A	None None None	70
Fagaceae (Beech Family)	<i>Quercus garryana</i> var. <i>breweri</i>	QUGAB	Oregon Oak	Shrub	Native	N/A	None None None	6
Fagaceae (Beech Family)	<i>Quercus garryana</i> var. <i>garryana</i>	QUGAG2	Oregon Oak	Tree	Native	N/A	None None None	132
Fagaceae (Beech Family)	<i>Quercus garryana</i> var. <i>semota</i>	QUGAS	Oregon White Oak	Shrub	Native	N/A	None None None	17
Fagaceae (Beech Family)	<i>Quercus kelloggii</i>	QUKE	California Black Oak	Seedling	Native	N/A	None None None	349
Fagaceae (Beech Family)	<i>Quercus lobata</i>	QULO	Valley Oak	Tree	Native	N/A	None None None	1
Fagaceae (Beech Family)	<i>Quercus vaccinifolia</i>	QUVA	Huckleberry Oak	Shrub	Native	N/A	None None None	34
Fagaceae (Beech Family)	<i>Quercus wislizeni</i>	QUWI2	Interior Live Oak	Sapling	Native	N/A	None None None	6
Fagaceae (Beech Family)	<i>Quercus wislizeni</i> var. <i>frutescens</i>	QUWIF	Live Oak	Shrub	Native	N/A	None None None	2
Fagaceae (Beech Family)	<i>Quercus wislizeni</i> var. <i>wislizeni</i>	QUWIW	Interior Live Oak	Seedling	Native	N/A	None None None	26

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Fagaceae (Beech Family)	<i>Quercus x morehus</i>	QUMO2	Oracle Oak	Sapling	Native	N/A	None None None	1
Garryaceae (Silk Tassel Family)	<i>Garrya congdonii</i>	GACO9	Silk Tassel	Shrub	Native	N/A	None None None	2
Garryaceae (Silk Tassel Family)	<i>Garrya fremontii</i>	GAFR	Fremont's Silk Tassel	Shrub	Native	N/A	None None None	15
Gentianaceae (Gentian Family)	<i>Frasera albicaulis</i>	FRAL2	Whitestem Fräsera	Herb	Native	N/A	None None None	4
Gentianaceae (Gentian Family)	<i>Frasera albicaulis</i> var. <i>modocensis</i>	FRALM	Modoc Fräsera	Herb	Native	N/A	None None 2B.3	3
Gentianaceae (Gentian Family)	<i>Frasera albicaulis</i> var. <i>nitida</i>	FRALN	Whitestem Fräsera	Herb	Native	N/A	None None None	1
Gentianaceae (Gentian Family)	<i>Gentiana newberryi</i>	GENE	Alpine Gentian	Herb	Native	N/A	None None None	1
Gentianaceae (Gentian Family)	<i>Gentiana newberryi</i> var. <i>newberryi</i>	GENEN	Gentiana Newberryi Var. Newberryi	Herb	Native	N/A	None None None	1
Gentianaceae (Gentian Family)	<i>Gentiana newberryi</i> var. <i>tiogana</i>	GENET	Sierra Alpine Gentian	Herb	Native	N/A	None None None	1
Gentianaceae (Gentian Family)	<i>Gentianopsis simplex</i>	GESI3	Hikers' Gentian	Herb	Native	N/A	None None None	3

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Gentianaceae (Gentian Family)	<i>Zeltnera exaltata</i>	ZEEX	Tall Centaury	Herb	Native	N/A	None None None	1
Gentianaceae (Gentian Family)	<i>Zeltnera venusta</i>	2JMZEVE	California Centaury	Herb	Native	N/A	None None None	1
Geraniaceae (Geranium Family)	<i>Erodium botrys</i>	ERBO	Big Heron Bill	Herb	Naturalized	N/A	None None None	2
Geraniaceae (Geranium Family)	<i>Erodium cicutarium</i>	ERCI6	Redstem Filaree	Herb	Naturalized	Limited	None None None	18
Geraniaceae (Geranium Family)	<i>Erodium moschatum</i>	ERMO7	Greenstem Filaree	Herb	Naturalized	N/A	None None None	3
Geraniaceae (Geranium Family)	<i>Geranium dissectum</i>	GEDI	Wild Geranium	Herb	Naturalized	Limited	None None None	1
Geraniaceae (Geranium Family)	<i>Geranium molle</i>	GEMO	Crane's Bill Geranium	Herb	Naturalized	N/A	None None None	1
Grossulariaceae (Currant Family)	<i>Ribes amarum</i>	RIAM	Bitter Gooseberry	Shrub	Native	N/A	None None None	6
Grossulariaceae (Currant Family)	<i>Ribes aureum</i>	RIAU	Golden Currant	Shrub	Native	N/A	None None None	3
Grossulariaceae (Currant Family)	<i>Ribes binominatum</i>	RIBI	Trailing Gooseberry	Shrub	Native	N/A	None None None	24

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Grossulariaceae (Currant Family)	<i>Ribes bracteosum</i>	RIBR	Stink Currant	Shrub	Native	N/A	None None None	1
Grossulariaceae (Currant Family)	<i>Ribes cereum</i>	RICE	Wax Currant	Shrub	Native	N/A	None None None	100
Grossulariaceae (Currant Family)	<i>Ribes cereum var. cereum</i>	RICEC2	Wax Currant	Shrub	Native	N/A	None None None	41
Grossulariaceae (Currant Family)	<i>Ribes divaricatum</i>	RIDI	Spreading Gooseberry	Shrub	Native	N/A	None None None	2
Grossulariaceae (Currant Family)	<i>Ribes inerme</i>	RIIN2	White-Stemmed Gooseberry	Shrub	Native	N/A	None None None	10
Grossulariaceae (Currant Family)	<i>Ribes inerme var. inerme</i>	RIINI	White Stemmed Gooseberry	Shrub	Native	N/A	None None None	10
Grossulariaceae (Currant Family)	<i>Ribes lacustre</i>	RILA	Swamp Currant	Shrub	Native	N/A	None None None	3
Grossulariaceae (Currant Family)	<i>Ribes montigenum</i>	RIMO2	Western Prickly Gooseberry	Shrub	Native	N/A	None None None	5
Grossulariaceae (Currant Family)	<i>Ribes nevadense</i>	RINE	Mountain Pink Currant	Shrub	Native	N/A	None None None	19
Grossulariaceae (Currant Family)	<i>Ribes roezlii</i>	RIRO	Sierran Gooseberry	Shrub	Native	N/A	None None None	78

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Grossulariaceae (Currant Family)	<i>Ribes roezlii</i> var. <i>cruentum</i>	RIROC	Spiny Fruited Gooseberry	Shrub	Native	N/A	None None None	2
Grossulariaceae (Currant Family)	<i>Ribes roezlii</i> var. <i>roezlii</i>	RIROR	Sierra Gooseberry	Shrub	Native	N/A	None None None	40
Grossulariaceae (Currant Family)	<i>Ribes velutinum</i>	RIVE	Desert Gooseberry	Shrub	Native	N/A	None None None	10
Grossulariaceae (Currant Family)	<i>Ribes viscosissimum</i>	RIVI3	Sticky Currant	Shrub	Native	N/A	None None None	16
Haloragaceae (Water Milfoil Family)	<i>Myriophyllum sibiricum</i>	MYSI	Siberian Water-Milfoil	Herb	Native	N/A	None None None	11
Heliotropiaceae (Heliotrope Family)	<i>Heliotropium curassavicum</i> var. <i>oculatum</i>	HECUO	Seaside Heliotrope	Herb	Native	N/A	None None None	2
Hydrangeaceae (Hydrangea Family)	<i>Philadelphus lewisii</i>	PHLE4	Wild Mock Orange	Shrub	Native	N/A	None None None	5
Hydrocharitaceae (Tape-Grass Family)	<i>Elodea canadensis</i>	ELCA7	Common Waterweed	Herb	Native	N/A	None None None	10
Hydrophyllaceae (Waterleaf Family)	<i>Hydrophyllum occidentale</i>	HYOC	Western Waterleaf	Herb	Native	N/A	None None None	6
Hydrophyllaceae (Waterleaf Family)	<i>Nemophila heterophylla</i>	NEHE	Canyon Nemophila	Herb	Native	N/A	None None None	10

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Hydrophyllaceae (Waterleaf Family)	<i>Nemophila menziesii</i> var. <i>menziesii</i>	NEMEM	Baby Blue Eyes	Herb	Native	N/A	None None None	1
Hydrophyllaceae (Waterleaf Family)	<i>Nemophila parviflora</i>	NEPA	Small Flowered Nemophila	Herb	Native	N/A	None None None	3
Hydrophyllaceae (Waterleaf Family)	<i>Nemophila parviflora</i> var. <i>austiniae</i>	NEPAA	Rebecca Austin's Nemophila	Herb	Native	N/A	None None None	1
Hydrophyllaceae (Waterleaf Family)	<i>Nemophila pedunculata</i>	NEPE	Meadow Nemophila	Herb	Native	N/A	None None None	4
Hydrophyllaceae (Waterleaf Family)	<i>Nemophila spatulata</i>	NESP	Sierra Nemophila	Herb	Native	N/A	None None None	4
Hydrophyllaceae (Waterleaf Family)	<i>Phacelia corymbosa</i>	PHCO3	Serpentine Phacelia	Herb	Native	N/A	None None None	1
Hydrophyllaceae (Waterleaf Family)	<i>Phacelia egena</i>	PHEG	Rock Phacelia	Herb	Native	N/A	None None None	3
Hydrophyllaceae (Waterleaf Family)	<i>Phacelia hastata</i>	PHHA	White Leafed Phacelia	Herb	Native	N/A	None None None	39
Hydrophyllaceae (Waterleaf Family)	<i>Phacelia hastata</i> var. <i>compacta</i>	PHHAC3	Timberline Phacelia	Herb	Native	N/A	None None None	5
Hydrophyllaceae (Waterleaf Family)	<i>Phacelia hastata</i> var. <i>hastata</i>	PHHAH	Mountain Phacelia	Herb	Native	N/A	None None None	24

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Hydrophyllaceae (Waterleaf Family)	<i>Phacelia heterophylla</i> var. <i>virgata</i>	PHHEV3	Varied Leaf Phacelia	Herb	Native	N/A	None None None	45
Hydrophyllaceae (Waterleaf Family)	<i>Phacelia hydrophyloides</i>	PHHY	Water Leaf Phacelia	Herb	Native	N/A	None None None	1
Hydrophyllaceae (Waterleaf Family)	<i>Phacelia imbricata</i>	PHIM	Imbricate Phacelia	Herb	Native	N/A	None None None	4
Hydrophyllaceae (Waterleaf Family)	<i>Phacelia linearis</i>	PHLI	Thread Leaf Phacelia	Herb	Native	N/A	None None None	13
Hydrophyllaceae (Waterleaf Family)	<i>Phacelia mutabilis</i>	PHMU2	Changeable Phacelia	Herb	Native	N/A	None None None	17
Hydrophyllaceae (Waterleaf Family)	<i>Phacelia purpusii</i>	PHPU2	Purpus' Phacelia	Herb	Native	N/A	None None None	2
Hydrophyllaceae (Waterleaf Family)	<i>Phacelia racemosa</i>	PHRA	Racemose Phacelia	Herb	Native	N/A	None None None	1
Hydrophyllaceae (Waterleaf Family)	<i>Phacelia ramosissima</i>	PHRA2	Branching Phacelia	Herb	Native	N/A	None None None	2
Hydrophyllaceae (Waterleaf Family)	<i>Phacelia rattanii</i>	PHRA4	Rattan's Phacelia	Herb	Native	N/A	None None None	1
Hypericaceae (St. John's Wort Family)	<i>Hypericum anagalloides</i>	HYAN2	Tinker's Penny	Herb	Native	N/A	None None None	29

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Hypericaceae (St. John's Wort Family)	<i>Hypericum concinnum</i>	HYCO3	Gold-Wire	Herb	Native	N/A	None None None	1
Hypericaceae (St. John's Wort Family)	<i>Hypericum perforatum</i> ssp. <i>perforatum</i>	2JMHYPEP	Klamathweed	Herb	Naturalized	Limited	None None None	17
Hypericaceae (St. John's Wort Family)	<i>Hypericum scouleri</i>	HYSC5	Scouler's St John's Wort	Herb	Native	N/A	None None None	30
Iridaceae (Iris Family)	<i>Iris hartwegii</i>	IRHA	Hartweg's Iris	Herb	Native	N/A	None None None	5
Iridaceae (Iris Family)	<i>Iris hartwegii</i> ssp. <i>hartwegii</i>	IRHAH	Hartweg's Iris	Herb	Native	N/A	None None None	5
Iridaceae (Iris Family)	<i>Iris hartwegii</i> ssp. <i>pinetorum</i>	IRHAP	Hartweg's Yellow Pine Iris	Herb	Native	N/A	None None None	1
Iridaceae (Iris Family)	<i>Iris missouriensis</i>	IRMI	Western Blue Flag	Herb	Native	N/A	None None None	10
Iridaceae (Iris Family)	<i>Iris pseudacorus</i>	IRPS	Yellowflag Iris	Herb	Naturalized	Limited	None None None	2
Iridaceae (Iris Family)	<i>Iris tenuissima</i>	IRTE3	Slender Iris	Herb	Native	N/A	None None None	5
Iridaceae (Iris Family)	<i>Iris tenuissima</i> ssp. <i>purdyiformis</i>	IRTEP	Slender Iris	Herb	Native	N/A	None None None	13

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Iridaceae (Iris Family)	<i>Sisyrinchium bellum</i>	SIBE	Western Blue-Eyed-Grass	Herb	Native	N/A	None None None	25
Iridaceae (Iris Family)	<i>Sisyrinchium elmeri</i>	SIEL3	Elmer's Blue-Eyed-Grass	Herb	Native	N/A	None None None	5
Iridaceae (Iris Family)	<i>Sisyrinchium idahoense</i>	SIID	Idaho Blue-Eyed-Grass	Herb	Native	N/A	None None None	1
Isoetaceae (Quillwort Family)	<i>Isoetes bolanderi</i>	ISBO	Bolander's Quillwort	Herb	Native	N/A	None None None	3
Isoetaceae (Quillwort Family)	<i>Isoetes howellii</i>	ISHO	Quillwort	Herb	Native	N/A	None None None	2
Isoetaceae (Quillwort Family)	<i>Isoetes nuttallii</i>	ISNU	Nuttall's Quillwort	Herb	Native	N/A	None None None	4
Isoetaceae (Quillwort Family)	<i>Isoetes occidentalis</i>	ISOC	Western Quillwort	Herb	Native	N/A	None None None	1
Juglandaceae (Walnut Family)	<i>Juglans hindsii</i>	JUHI	Northern California Black Walnut	Sapling	Native	N/A	None None None	1
Juncaceae (Rush Family)	<i>Juncus articulatus</i> ssp. <i>articulatus</i>	2JMJUARA	Jointed Rush	Herb	Native	N/A	None None None	2
Juncaceae (Rush Family)	<i>Juncus balticus</i> ssp. <i>ater</i>	2JMJUBAA	Baltic Rush	Herb	Native	N/A	None None None	126

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Juncaceae (Rush Family)	<i>Juncus bufonius</i>	JUBU	Toad Rush	Herb	Native	N/A	None None None	14
Juncaceae (Rush Family)	<i>Juncus bufonius</i> var. <i>bufonius</i>	JUBUB	Toad Rush	Herb	Native	N/A	None None None	1
Juncaceae (Rush Family)	<i>Juncus bufonius</i> var. <i>occidentalis</i>	JUBUO	Western Toad Rush	Herb	Native	N/A	None None None	2
Juncaceae (Rush Family)	<i>Juncus capitatus</i>	JUCA5	Dwarf Rush	Herb	Naturalized	N/A	None None None	1
Juncaceae (Rush Family)	<i>Juncus confusus</i>	JUCO2	Colorado Rush	Herb	Native	N/A	None None None	6
Juncaceae (Rush Family)	<i>Juncus drummondii</i>	JUDR	Drummond's Rush	Herb	Native	N/A	None None None	8
Juncaceae (Rush Family)	<i>Juncus dubius</i>	JUDU	Mariposa Rush	Herb	Native	N/A	None None None	3
Juncaceae (Rush Family)	<i>Juncus effusus</i>	JUEF	Soft Rush	Herb	Native	N/A	None None None	12
Juncaceae (Rush Family)	<i>Juncus effusus</i> ssp. <i>effusus</i>	2JMJUEFE	Common Rush	Herb	Naturalized	N/A	None None None	4
Juncaceae (Rush Family)	<i>Juncus effusus</i> ssp. <i>pacificus</i>	2JMJUEFP	Pacific Rush	Herb	Native	N/A	None None None	4

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Juncaceae (Rush Family)	<i>Juncus ensifolius</i>	JUEN	Dagger Rush	Herb	Native	N/A	None None None	16
Juncaceae (Rush Family)	<i>Juncus hemiendytus</i> var. <i>hemiendytus</i>	JUHEH	Hermann's Dwarf Rush	Herb	Native	N/A	None None None	3
Juncaceae (Rush Family)	<i>Juncus howellii</i>	JUHO	Howell's Rush	Herb	Native	N/A	None None None	8
Juncaceae (Rush Family)	<i>Juncus leiospermus</i>	JULE2	Dwarf Rush	Herb	Native	N/A	None None None	1
Juncaceae (Rush Family)	<i>Juncus macrandrus</i>	JUMA2	Long-Anthered Rush	Herb	Native	N/A	None None None	2
Juncaceae (Rush Family)	<i>Juncus mertensianus</i>	JUME3	Mertens' Rush	Herb	Native	N/A	None None None	8
Juncaceae (Rush Family)	<i>Juncus mexicanus</i>	JUME4	Mexican Rush	Herb	Native	N/A	None None None	82
Juncaceae (Rush Family)	<i>Juncus nevadensis</i>	JUNE	Sierra Rush	Herb	Native	N/A	None None None	32
Juncaceae (Rush Family)	<i>Juncus nevadensis</i> var. <i>nevadensis</i>	JUNEN	Nevada Or Sierran Rush	Herb	Native	N/A	None None None	92
Juncaceae (Rush Family)	<i>Juncus orthophyllus</i>	JUOR	Straightleaved Rush	Herb	Native	N/A	None None None	28

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Juncaceae (Rush Family)	<i>Juncus oxymersis</i>	JUOX	Pointed Rush	Herb	Native	N/A	None None None	2
Juncaceae (Rush Family)	<i>Juncus parryi</i>	JUPA	Parry's Rush	Herb	Native	N/A	None None None	36
Juncaceae (Rush Family)	<i>Juncus patens</i>	JUPA2	Spreading Rush	Herb	Native	N/A	None None None	6
Juncaceae (Rush Family)	<i>Juncus saximontanus</i>	JUSA	Rocky Mountain Rush	Herb	Native	N/A	None None None	5
Juncaceae (Rush Family)	<i>Juncus tenuis</i>	JUTE	Slender Rush	Herb	Native	N/A	None None None	15
Juncaceae (Rush Family)	<i>Juncus tiehmii</i>	JUTI	Tiehm's Rush	Herb	Native	N/A	None None None	2
Juncaceae (Rush Family)	<i>Juncus uncialis</i>	JUUN	Inch-High Rush	Herb	Native	N/A	None None None	1
Juncaceae (Rush Family)	<i>Juncus usitatus</i>	2JMJUUN	Australian Rush	Herb	Naturalized	N/A	None None None	1
Juncaceae (Rush Family)	<i>Juncus xiphioides</i>	JUXI	Iris-Leaved Rush	Herb	Native	N/A	None None None	3
Juncaceae (Rush Family)	<i>Luzula comosa</i>	LUCO6	Hairy Wood Rush	Herb	Native	N/A	None None None	4

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Juncaceae (Rush Family)	<i>Luzula comosa</i> var. <i>comosa</i>	2JMLUCOC	Hairy Wood Rush	Herb	Native	N/A	None None None	1
Juncaceae (Rush Family)	<i>Luzula comosa</i> var. <i>laxa</i>	LUCOL	Hairy Wood Rush	Herb	Native	N/A	None None None	1
Juncaceae (Rush Family)	<i>Luzula divaricata</i>	LUDI	Forked Wood Rush	Herb	Native	N/A	None None None	2
Juncaceae (Rush Family)	<i>Luzula parviflora</i> ssp. <i>parviflora</i>	2JMLUPAP	Small Flowered Wood Rush	Herb	Native	N/A	None None None	1
Juncaceae (Rush Family)	<i>Luzula subcongesta</i>	LUSU7	Donner Wood Rush	Herb	Native	N/A	None None None	3
Juncaginaceae (Arrow-Grass Family)	<i>Triglochin concinna</i> var. <i>debilis</i>	TRCOD2	Slender Arrow Grass	Herb	Native	N/A	None None None	1
Juncaginaceae (Arrow-Grass Family)	<i>Triglochin maritima</i>	TRMA20	Common Arrow-Grass	Herb	Native	N/A	None None None	1
Lamiaceae (Mint Family)	<i>Agastache parvifolia</i>	AGPA2	Small Leaved Horsemint	Herb	Native	N/A	None None None	7
Lamiaceae (Mint Family)	<i>Agastache urticifolia</i>	AGUR	Horse Mint	Herb	Native	N/A	None None None	17
Lamiaceae (Mint Family)	<i>Lamium amplexicaule</i>	LAAM	Henbit	Herb	Naturalized	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Lamiaceae (Mint Family)	<i>Lycopus americanus</i>	LYAM	Bugleweed	Herb	Native	N/A	None None None	1
Lamiaceae (Mint Family)	<i>Lycopus uniflorus</i>	LYUN	Northern Bugleweed	Herb	Native	N/A	None None 4.3	1
Lamiaceae (Mint Family)	<i>Melissa officinalis</i>	MEOF2	Lemon Balm	Herb	Naturalized	N/A	None None None	1
Lamiaceae (Mint Family)	<i>Mentha arvensis</i>	MEAR4	Field Mint	Herb	Naturalized	N/A	None None None	3
Lamiaceae (Mint Family)	<i>Mentha canadensis</i>	MECA7	American Cornmint	Herb	Native	N/A	None None None	10
Lamiaceae (Mint Family)	<i>Mentha pulegium</i>	MEPU	Pennyroyal	Herb	Naturalized	Moderate	None None None	3
Lamiaceae (Mint Family)	<i>Mentha spicata</i>	MESP3	Spearmint	Herb	Naturalized	N/A	None None None	3
Lamiaceae (Mint Family)	<i>Mentha Xpiperita</i>	MEAQ	Peppermint	Herb	Naturalized	N/A	None None None	4
Lamiaceae (Mint Family)	<i>Monardella breweri</i> ssp. <i>lanceolata</i>	2JMMOBRL	Mustang Mint	Herb	Native	N/A	None None None	1
Lamiaceae (Mint Family)	<i>Monardella odoratissima</i>	MOOD	Coyote-Mint	Herb	Native	N/A	None None None	101

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Lamiaceae (Mint Family)	<i>Monardella odoratissima</i> <i>ssp. glauca</i>	MOODG2	Mountain Mint	Herb	Native	N/A	None None None	2
Lamiaceae (Mint Family)	<i>Monardella odoratissima</i> <i>ssp. pallida</i>	MOODP	Pale Mountain Monardella	Herb	Native	N/A	None None None	60
Lamiaceae (Mint Family)	<i>Monardella purpurea</i>	MOPU2	Siskiyou Monardella	Herb	Native	N/A	None None None	1
Lamiaceae (Mint Family)	<i>Pogogyne floribunda</i>	POFL17	Profuse-Flowered Pogogyne	Herb	Native	N/A	None None 4.2	1
Lamiaceae (Mint Family)	<i>Prunella vulgaris</i>	PRVU	Self Heal	Herb	Native	N/A	None None None	33
Lamiaceae (Mint Family)	<i>Prunella vulgaris</i> var. <i>lanceolata</i>	PRVUL3	Mountain Selfheal	Herb	Native	N/A	None None None	11
Lamiaceae (Mint Family)	<i>Prunella vulgaris</i> var. <i>vulgaris</i>	PRVUV2	Self Heal	Herb	Naturalized	N/A	None None None	4
Lamiaceae (Mint Family)	<i>Pycnanthemum</i> <i>californicum</i>	PYCA	California Mint	Herb	Native	N/A	None None None	2
Lamiaceae (Mint Family)	<i>Scutellaria antirrhinoides</i>	SCAN4	Snapdragon Skullcap	Herb	Native	N/A	None None None	8
Lamiaceae (Mint Family)	<i>Scutellaria californica</i>	SCCA3	California Skullcap	Herb	Native	N/A	None None None	3

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Lamiaceae (Mint Family)	<i>Scutellaria nana</i>	SCNA	Little Skullcap	Herb	Native	N/A	None None None	3
Lamiaceae (Mint Family)	<i>Stachys ajugoides</i>	STAJ	Hedge Nettle	Herb	Native	N/A	None None None	5
Lamiaceae (Mint Family)	<i>Stachys albens</i>	STAL	Cobwebby Hedge Nettle	Herb	Native	N/A	None None None	2
Lamiaceae (Mint Family)	<i>Stachys pycnantha</i>	STPY	Short-Spiked Hedge Nettle	Herb	Native	N/A	None None None	2
Lamiaceae (Mint Family)	<i>Stachys rigida</i>	STRI	Rough Hedgenettle	Herb	Native	N/A	None None None	40
Lamiaceae (Mint Family)	<i>Stachys rigida</i> var. <i>quercetorum</i>	STRIQ2	Rough Hedgenettle	Herb	Native	N/A	None None None	5
Lamiaceae (Mint Family)	<i>Stachys rigida</i> var. <i>rigida</i>	STRIR3	Rough Hedgenettle	Herb	Native	N/A	None None None	53
Lamiaceae (Mint Family)	<i>Trichostema lanceolatum</i>	TRLA4	Vinegar Weed	Herb	Native	N/A	None None None	2
Lamiaceae (Mint Family)	<i>Trichostema oblongum</i>	TROB	Mountain Bluecurls	Herb	Native	N/A	None None None	16
Lamiaceae (Mint Family)	<i>Trichostema simulatum</i>	TRSI	Siskiyou Bluecurls	Herb	Native	N/A	None None None	1

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Lauraceae (Laurel Family)	<i>Umbellularia californica</i>	UMCA	California Bay	Sapling	Native	N/A	None None None	29
Lentibulariaceae (Bladderwort Family)	<i>Utricularia gibba</i>	UTGI	Gibbous Bladderwort	Herb	Native	N/A	None None None	1
Lentibulariaceae (Bladderwort Family)	<i>Utricularia intermedia</i>	UTIN2	Flat-Leaved Bladderwort	Herb	Native	N/A	None None 2B.2	1
Lentibulariaceae (Bladderwort Family)	<i>Utricularia macrorhiza</i>	UTMA	Common Bladderwort	Herb	Native	N/A	None None None	24
Lentibulariaceae (Bladderwort Family)	<i>Utricularia minor</i>	UTMI	Lesser Bladderwort	Herb	Native	N/A	None None 4.2	1
Liliaceae (Lily Family)	<i>Calochortus albus</i>	CAAL2	White Globe Lily	Herb	Native	N/A	None None None	1
Liliaceae (Lily Family)	<i>Calochortus bruneaunis</i>	CABR4	Pinyon Mariposa	Herb	Native	N/A	None None None	1
Liliaceae (Lily Family)	<i>Calochortus greenei</i>	CAGR	Greene's Mariposa Lily	Herb	Native	N/A	None None 1B.2	3
Liliaceae (Lily Family)	<i>Calochortus leichtlinii</i>	CALE3	Leichtlin's Mariposa Lily	Herb	Native	N/A	None None None	7
Liliaceae (Lily Family)	<i>Calochortus longebarbatus</i> var. <i>longebarbatus</i>	CALOL	Long-Haired Star-Tulip	Herb	Native	N/A	None None 1B.2	2

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Liliaceae (Lily Family)	<i>Calochortus macrocarpus</i>	CAMA5	Sagebrush Mariposa Lily	Herb	Native	N/A	None None None	5
Liliaceae (Lily Family)	<i>Calochortus monophyllus</i>	CAMO3	Yellow Star-Tulip	Herb	Native	N/A	None None None	19
Liliaceae (Lily Family)	<i>Calochortus nudus</i>	CANU2	Naked Mariposa Lily	Herb	Native	N/A	None None None	7
Liliaceae (Lily Family)	<i>Calochortus tolmiei</i>	CATO	Pussy Ears	Herb	Native	N/A	None None None	5
Liliaceae (Lily Family)	<i>Calochortus venustus</i>	CAVE3	Butterfly Mariposa Lily	Herb	Native	N/A	None None None	1
Liliaceae (Lily Family)	<i>Clintonia uniflora</i>	CLUN2	Bride's Bonnet	Herb	Native	N/A	None None None	8
Liliaceae (Lily Family)	<i>Erythronium multiscapideum</i>	2JMERMU	Sierra Fawn Lily	Herb	Native	N/A	None None None	1
Liliaceae (Lily Family)	<i>Erythronium purpurascens</i>	ERPU7	Purple Fawn Lily	Herb	Native	N/A	None None None	5
Liliaceae (Lily Family)	<i>Fritillaria atropurpurea</i>	FRAT	Spotted Mountain Bells	Herb	Native	N/A	None None None	8
Liliaceae (Lily Family)	<i>Fritillaria pudica</i>	FRPU2	Yellow Fritillary	Herb	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Liliaceae (Lily Family)	<i>Fritillaria recurva</i>	FRRE	Scarlet Fritillary	Herb	Native	N/A	None None None	20
Liliaceae (Lily Family)	<i>Lilium humboldtii</i>	LIHU	Humboldt's Lily	Herb	Native	N/A	None None None	1
Liliaceae (Lily Family)	<i>Lilium pardalinum</i>	LIPA	California Tiger Lily	Herb	Native	N/A	None None None	15
Liliaceae (Lily Family)	<i>Lilium pardalinum</i> ssp. <i>pardalinum</i>	LIPAP2	Leopard Lily	Herb	Native	N/A	None None None	6
Liliaceae (Lily Family)	<i>Lilium pardalinum</i> ssp. <i>shastense</i>	LIPAS	Shasta Lily	Herb	Native	N/A	None None None	30
Liliaceae (Lily Family)	<i>Lilium washingtonianum</i>	LIWA	Washington Lily	Herb	Native	N/A	None None None	7
Liliaceae (Lily Family)	<i>Lilium washingtonianum</i> ssp. <i>washingtonianum</i>	LIWAW2	Typical Washington Lily	Herb	Native	N/A	None None None	2
Liliaceae (Lily Family)	<i>Prosartes hookeri</i>	PRHO2	Drops Of Gold	Herb	Native	N/A	None None None	19
Liliaceae (Lily Family)	<i>Streptopus amplexifolius</i> var. <i>americanus</i>	STAMA	Twisted Stalk	Herb	Native	N/A	None None None	1
Limnanthaceae (Meadow-Foam Family)	<i>Limnanthes alba</i> ssp. <i>versicolor</i>	LIALV2	Limnanthes Alba Ssp. Versicolor	Herb	Native	N/A	None None None	3

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Limnanthaceae (Meadow-Foam Family)	<i>Limnanthes floccosa</i>	LIFL2	Woolly Meadowfoam	Herb	Native	N/A	None None None	1
Limnanthaceae (Meadow-Foam Family)	<i>Limnanthes floccosa</i> ssp. <i>floccosa</i>	LIFLF	Woolly Meadowfoam	Herb	Native	N/A	None None 4.2	1
Linaceae (Flax Family)	<i>Hesperolinon micranthum</i>	HEMI9	Small Flower Western Flax	Herb	Native	N/A	None None None	5
Linaceae (Flax Family)	<i>Linum bienne</i>	LIBI5	Flax	Herb	Naturalized	N/A	None None None	3
Linaceae (Flax Family)	<i>Linum lewisii</i> var. <i>lewisii</i>	LILEL2	Lewis' Flax	Herb	Native	N/A	None None None	10
Linnaeaceae (Twin Flower Family)	<i>Linnaea borealis</i> var. <i>longiflora</i>	LIBOL	Twin Flower	Herb	Native	N/A	None None None	2
Loasaceae (Loasa Family)	<i>Mentzelia albicaulis</i>	MEAL6	White Stemmed Blazing Star	Herb	Native	N/A	None None None	8
Loasaceae (Loasa Family)	<i>Mentzelia dispersa</i>	MEDI	Scattered Blazing Star	Herb	Native	N/A	None None None	3
Loasaceae (Loasa Family)	<i>Mentzelia laevicaulis</i>	MELA2	Giant Blazingstar	Herb	Native	N/A	None None None	1
Lythraceae (Loosestrife Family)	<i>Lythrum hyssopifolia</i>	LYHY2	Hyssop Loosestrife	Herb	Naturalized	Moderate	None None None	4

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Lythraceae (Loosestrife Family)	<i>Rotala ramosior</i>	RORA	Lowland Rotala	Herb	Native	N/A	None None None	1
Malvaceae (Mallow Family)	<i>Fremontodendron californicum</i>	FRCA6	California Fremontia	Shrub	Native	N/A	None None None	1
Malvaceae (Mallow Family)	<i>Iliamna bakeri</i>	ILBA	Baker's Globe Mallow	Herb	Native	N/A	None None 4.2	4
Malvaceae (Mallow Family)	<i>Sidalcea asprella</i>	SIAS4	Harsh Checker Mallow	Herb	Native	N/A	None None None	3
Malvaceae (Mallow Family)	<i>Sidalcea asprella</i> ssp. <i>asprella</i>	SIASA2	Harsh Checkerbloom	Herb	Native	N/A	None None None	7
Malvaceae (Mallow Family)	<i>Sidalcea gigantea</i>	SIGI	Giant Checkerbloom	Herb	Native	N/A	None None 4.3	1
Malvaceae (Mallow Family)	<i>Sidalcea glaucescens</i>	SIGL2	Waxy Checkerbloom	Herb	Native	N/A	None None None	12
Malvaceae (Mallow Family)	<i>Sidalcea hartwegii</i>	SIHA	Hartweg's Checkerbloom	Herb	Native	N/A	None None None	4
Malvaceae (Mallow Family)	<i>Sidalcea malviflora</i>	SIMA2	Checkerbloom	Herb	Native	N/A	None None None	2
Malvaceae (Mallow Family)	<i>Sidalcea oregana</i>	SIOR	Oregon Checker Mallow	Herb	Native	N/A	None None None	33

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Malvaceae (Mallow Family)	<i>Sidalcea oregana</i> ssp. <i>oregana</i>	SIORO	Oregon Checkerbloom	Herb	Native	N/A	None None None	29
Malvaceae (Mallow Family)	<i>Sidalcea oregana</i> ssp. <i>spicata</i>	SIORS	Oregon Checker Mallow	Herb	Native	N/A	None None None	36
Marsileaceae (Water-Clover Family)	<i>Marsilea oligospora</i>	MAOL3	Nelson's Pepperwort	Herb	Native	N/A	None None None	11
Marsileaceae (Water-Clover Family)	<i>Marsilea vestita</i> ssp. <i>vestita</i>	MAVEV	Hairy Pepperwort	Herb	Native	N/A	None None None	17
Marsileaceae (Water-Clover Family)	<i>Pilularia americana</i>	PIAM	Pillwort	Herb	Native	N/A	None None None	1
Melanthiaceae (False-Hellebore Family)	<i>Toxicoscordion paniculatum</i>	TOPA5	Foothill Deathcamas	Herb	Native	N/A	None None None	2
Melanthiaceae (False-Hellebore Family)	<i>Toxicoscordion venenosum</i> var. <i>venenosum</i>	2JMTOVEV	Meadow Deathcamas	Herb	Native	N/A	None None None	15
Melanthiaceae (False-Hellebore Family)	<i>Trillium albidum</i>	TRAL4	Giant White Wakerobin	Herb	Native	N/A	None None None	3
Melanthiaceae (False-Hellebore Family)	<i>Trillium ovatum</i>	TROV2	Western Trillium	Herb	Native	N/A	None None None	1
Melanthiaceae (False-Hellebore Family)	<i>Veratrum californicum</i> var. <i>californicum</i>	VECAC2	California Corn Lily	Herb	Native	N/A	None None None	106

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Melanthiaceae (False-Hellebore Family)	<i>Xerophyllum tenax</i>	XETE	Beargrass	Herb	Native	N/A	None None None	1
Menyanthaceae (Buckbean Family)	<i>Menyanthes trifoliata</i>	METR3	Bogbean	Herb	Native	N/A	None None None	6
Molluginaceae (Carpet-Weed Family)	<i>Mollugo verticillata</i>	MOVE	Indian Chickweed	Herb	Naturalized	N/A	None None None	1
Montiaceae (Miner's Lettuce Family)	<i>Calyptridium monospermum</i>	CAM06	One Seeded Pussypaws	Herb	Native	N/A	None None None	47
Montiaceae (Miner's Lettuce Family)	<i>Calyptridium umbellatum</i>	CAUM2	Pussy Toes	Herb	Native	N/A	None None None	52
Montiaceae (Miner's Lettuce Family)	<i>Claytonia parviflora</i>	CLPA5	Narrow Leaved Miner's Lettuce	Herb	Native	N/A	None None None	19
Montiaceae (Miner's Lettuce Family)	<i>Claytonia parviflora</i> ssp. <i>parviflora</i>	CLPAP	Miner's Lettuce	Herb	Native	N/A	None None None	5
Montiaceae (Miner's Lettuce Family)	<i>Claytonia perfoliata</i>	CLPE	Rooreh	Herb	Native	N/A	None None None	6
Montiaceae (Miner's Lettuce Family)	<i>Claytonia perfoliata</i> ssp. <i>perfoliata</i>	CLPEP	Claytonia	Herb	Native	N/A	None None None	2
Montiaceae (Miner's Lettuce Family)	<i>Claytonia rubra</i>	CLRU2	Red Stemmed Spring Beauty	Herb	Native	N/A	None None None	20

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Montiaceae (Miner's Lettuce Family)	<i>Claytonia rubra</i> ssp. <i>rubra</i>	CLRUR	Red Stemmed Miner's Lettuce	Herb	Native	N/A	None None None	14
Montiaceae (Miner's Lettuce Family)	<i>Lewisia nevadensis</i>	LENE5	Nevada Lewisia	Herb	Native	N/A	None None None	2
Montiaceae (Miner's Lettuce Family)	<i>Lewisia triphylla</i>	LETR2	Three-Leaved Lewisia	Herb	Native	N/A	None None None	4
Montiaceae (Miner's Lettuce Family)	<i>Montia chamissoi</i>	MOCH	Toad Lily	Herb	Native	N/A	None None None	6
Montiaceae (Miner's Lettuce Family)	<i>Montia fontana</i>	MOFO	Water Chickweed	Herb	Native	N/A	None None None	2
Montiaceae (Miner's Lettuce Family)	<i>Montia linearis</i>	MOLI4	Narrow Leaved Water Chickweed	Herb	Native	N/A	None None None	9
Montiaceae (Miner's Lettuce Family)	<i>Montia parvifolia</i>	MOPA2	Showy Rock Montia	Herb	Native	N/A	None None None	1
Myrsinaceae (Myrsine Family)	<i>Lysimachia latifolia</i>	2JMLYLA	Pacific Starflower	Herb	Native	N/A	None None None	42
Myrsinaceae (Myrsine Family)	<i>Lysimachia minima</i>	LYMI5	Chaffweed	Herb	Native	N/A	None None None	5
Myrsinaceae (Myrsine Family)	<i>Lysimachia thyrsoiflora</i>	LYTH2	Tufted Loosestrife	Herb	Native	N/A	None None 2B.3	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Namaceae (Nama Family)	<i>Eriodictyon californicum</i>	ERCA6	California Yerba Santa	Shrub	Native	N/A	None None None	16
Namaceae (Nama Family)	<i>Eriodictyon lobbii</i>	2JMERLO	Matted Yerba Santa	Herb	Native	N/A	None None None	9
Namaceae (Nama Family)	<i>Nama densa</i>	2JMNADE	Leafy Nama	Herb	Native	N/A	None None None	9
Nartheciaceae (Bog Asphodel Family)	<i>Narthecium californicum</i>	NACA2	California Bog Asphodel	Herb	Native	N/A	None None None	4
Nymphaeaceae (Water-Lily Family)	<i>Nuphar polysepala</i>	NUPO2	Rocky Mountain Pond-Lily	Herb	Native	N/A	None None None	7
Oleaceae (Olive Family)	<i>Fraxinus dipetala</i>	FRDI2	California Ash	Shrub	Native	N/A	None None None	2
Oleaceae (Olive Family)	<i>Fraxinus latifolia</i>	FRLA	Oregon Ash	Seedling	Native	N/A	None None None	83
Onagraceae (Evening Primrose Family)	<i>Chamerion angustifolium</i> <i>ssp. circumvagum</i>	CHANC	Fireweed	Herb	Native	N/A	None None None	24
Onagraceae (Evening Primrose Family)	<i>Circaea alpina</i> <i>ssp. pacifica</i>	CIALP2	Pacific Enchanter's Nightshade	Herb	Native	N/A	None None None	15
Onagraceae (Evening Primrose Family)	<i>Clarkia gracilis</i>	CLGR	Graceful Clarkia	Herb	Native	N/A	None None None	29

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Onagraceae (Evening Primrose Family)	<i>Clarkia gracilis</i> ssp. <i>gracilis</i>	CLGRG2	Graceful Clarkia	Herb	Native	N/A	None None None	4
Onagraceae (Evening Primrose Family)	<i>Clarkia lassenensis</i>	CLLA	Lassen Clarkia	Herb	Native	N/A	None None None	31
Onagraceae (Evening Primrose Family)	<i>Clarkia purpurea</i>	CLPU2	Purple Clarkia	Herb	Native	N/A	None None None	8
Onagraceae (Evening Primrose Family)	<i>Clarkia purpurea</i> ssp. <i>purpurea</i>	CLPUP	Purple Clarkia	Herb	Native	N/A	None None None	1
Onagraceae (Evening Primrose Family)	<i>Clarkia purpurea</i> ssp. <i>quadrivulnera</i>	CLPUQ	Four-Spot	Herb	Native	N/A	None None None	7
Onagraceae (Evening Primrose Family)	<i>Clarkia rhomboidea</i>	CLRH	Diamond Clarkia	Herb	Native	N/A	None None None	58
Onagraceae (Evening Primrose Family)	<i>Clarkia stellata</i>	CLST3	Lake Almanor Clarkia	Herb	Native	N/A	None None None	3
Onagraceae (Evening Primrose Family)	<i>Clarkia unguiculata</i>	CLUN	Woodland Clarkia	Herb	Native	N/A	None None None	5
Onagraceae (Evening Primrose Family)	<i>Epilobium anagallidifolium</i>	EPAN4	Alpine Willowherb	Herb	Native	N/A	None None None	3
Onagraceae (Evening Primrose Family)	<i>Epilobium brachycarpum</i>	EPBR3	Willow Herb	Herb	Native	N/A	None None None	69

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Onagraceae (Evening Primrose Family)	<i>Epilobium campestre</i>	EPCA	Smooth Boisduvalia	Herb	Native	N/A	None None None	7
Onagraceae (Evening Primrose Family)	<i>Epilobium canum</i>	EPCA3	California Fuchsia	Herb	Native	N/A	None None None	1
Onagraceae (Evening Primrose Family)	<i>Epilobium ciliatum</i>	EPCI	Slender Willow Herb	Herb	Native	N/A	None None None	39
Onagraceae (Evening Primrose Family)	<i>Epilobium ciliatum</i> ssp. <i>ciliatum</i>	EPCIC	Willow Herb	Herb	Native	N/A	None None None	49
Onagraceae (Evening Primrose Family)	<i>Epilobium ciliatum</i> ssp. <i>glandulosum</i>	EPCIG	Glandular Willowherb	Herb	Native	N/A	None None None	9
Onagraceae (Evening Primrose Family)	<i>Epilobium densiflorum</i>	EPDE4	Willow Herb	Herb	Native	N/A	None None None	23
Onagraceae (Evening Primrose Family)	<i>Epilobium foliosum</i>	EPFO	California Willowherb	Herb	Native	N/A	None None None	2
Onagraceae (Evening Primrose Family)	<i>Epilobium glaberrimum</i>	EPGL	Smooth Willowherb	Herb	Native	N/A	None None None	32
Onagraceae (Evening Primrose Family)	<i>Epilobium glaberrimum</i> ssp. <i>glaberrimum</i>	EPGLG	Smooth Willowherb	Herb	Native	N/A	None None None	9
Onagraceae (Evening Primrose Family)	<i>Epilobium hallianum</i>	EPHA2	Hall's Willowherb	Herb	Native	N/A	None None None	5

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Onagraceae (Evening Primrose Family)	<i>Epilobium lactiflorum</i>	EPLA3	White Flowered Willowherb	Herb	Native	N/A	None None None	1
Onagraceae (Evening Primrose Family)	<i>Epilobium minutum</i>	EPMI	Minute Willowherb	Herb	Native	N/A	None None None	22
Onagraceae (Evening Primrose Family)	<i>Epilobium oregonense</i>	EPOR2	Slimstem Willowweed	Herb	Native	N/A	None None None	3
Onagraceae (Evening Primrose Family)	<i>Epilobium pallidum</i>	EPPA7	Pale Boisduvalia	Herb	Native	N/A	None None None	6
Onagraceae (Evening Primrose Family)	<i>Epilobium palustre</i>	EPPA	Marsh Willowherb	Herb	Native	N/A	None None 2B.3	6
Onagraceae (Evening Primrose Family)	<i>Epilobium pygmaeum</i>	EPPY4	Smooth Boisduvalia	Herb	Native	N/A	None None None	2
Onagraceae (Evening Primrose Family)	<i>Epilobium torreyi</i>	EPTO4	Narrow Boisduvalia	Herb	Native	N/A	None None None	13
Onagraceae (Evening Primrose Family)	<i>Gayophytum decipiens</i>	GADE2	Deceiving Gayophytum	Herb	Native	N/A	None None None	3
Onagraceae (Evening Primrose Family)	<i>Gayophytum diffusum</i>	GADI2	Spreading Groundsmoke	Herb	Native	N/A	None None None	126
Onagraceae (Evening Primrose Family)	<i>Gayophytum diffusum</i> ssp. <i>diffusum</i>	GADID	Diffuse Gayophytum	Herb	Native	N/A	None None None	26

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Onagraceae (Evening Primrose Family)	<i>Gayophytum diffusum</i> ssp. <i>parviflorum</i>	GADIP	Small Flowered Groundsmoke	Herb	Native	N/A	None None None	78
Onagraceae (Evening Primrose Family)	<i>Gayophytum heterozygum</i>	GAHE3	Zig Zag Gayophytum	Herb	Native	N/A	None None None	8
Onagraceae (Evening Primrose Family)	<i>Gayophytum humile</i>	GAHU2	Dwarf Groundsmoke	Herb	Native	N/A	None None None	1
Onagraceae (Evening Primrose Family)	<i>Gayophytum racemosum</i>	GARA	Black Foot Gayophytum	Herb	Native	N/A	None None None	1
Onagraceae (Evening Primrose Family)	<i>Gayophytum ramosissimum</i>	GARA2	Pinyon Gayophytum	Herb	Native	N/A	None None None	3
Onagraceae (Evening Primrose Family)	<i>Ludwigia peploides</i> ssp. <i>peploides</i>	LUPEP2	Floating Water Primrose	Herb	Naturalized	N/A	None None None	1
Onagraceae (Evening Primrose Family)	<i>Oenothera caespitosa</i> ssp. <i>marginata</i>	OECAM4	Fragrant Evening-primr	Herb	Native	N/A	None None None	1
Onagraceae (Evening Primrose Family)	<i>Oenothera cespitosa</i>	OECE2	Fragrant Evening-Primrose	Herb	Native	N/A	None None None	1
Onagraceae (Evening Primrose Family)	<i>Oenothera elata</i>	OEEL	Evening Primrose	Herb	Native	N/A	None None None	1
Onagraceae (Evening Primrose Family)	<i>Taraxia tanacetifolia</i>	TATA2	Tansy Leaf Evening Primrose	Herb	Native	N/A	None None None	34

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Ophioglossaceae (Adder's-Tongue Family)	<i>Sceptridium multifidum</i>	SCMU11	Leather Grape-Fern	Herb	Native	N/A	None None None	6
Orchidaceae (Orchid Family)	<i>Corallorhiza maculata</i>	COMA25	Spotted Coralroot	Herb	Native	N/A	None None None	9
Orchidaceae (Orchid Family)	<i>Corallorhiza maculata</i> var. <i>maculata</i>	COMAM7	Summer Coralroot	Herb	Native	N/A	None None None	5
Orchidaceae (Orchid Family)	<i>Corallorhiza striata</i>	COST19	Striped Coralroot	Herb	Native	N/A	None None None	2
Orchidaceae (Orchid Family)	<i>Goodyera oblongifolia</i>	GOOB2	Rattlesnake-Plantain	Herb	Native	N/A	None None None	31
Orchidaceae (Orchid Family)	<i>Listera convallarioides</i>	LICO5	Broad-Leaved Twayblade	Herb	Native	N/A	None None None	2
Orchidaceae (Orchid Family)	<i>Piperia elongata</i>	PIEL4	Chaparral Orchid	Herb	Native	N/A	None None None	2
Orchidaceae (Orchid Family)	<i>Piperia transversa</i>	PITR3	Flat Spurred Piperia	Herb	Native	N/A	None None None	3
Orchidaceae (Orchid Family)	<i>Platanthera dilatata</i> var. <i>leucostachys</i>	PLDIL	White-Flowered Bog- Orchid	Herb	Native	N/A	None None None	38
Orchidaceae (Orchid Family)	<i>Platanthera sparsiflora</i>	PLSP2	Sparse-Flowered Bog- Orchid	Herb	Native	N/A	None None None	5

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Orchidaceae (Orchid Family)	<i>Spiranthes porrifolia</i>	SPPO7	Western Ladies' Tresses	Herb	Native	N/A	None None None	1
Orchidaceae (Orchid Family)	<i>Spiranthes romanzoffiana</i>	SPRO	Hooded Ladies' Tresses	Herb	Native	N/A	None None None	2
Orobanchaceae (Broom-Rape Family)	<i>Aphyllon californicum</i>	2JMAPCA	California Orobanche	Herb	Native	N/A	None None None	1
Orobanchaceae (Broom-Rape Family)	<i>Aphyllon corymbosum</i>	ORCO5	Flat Topped Broom Rape	Herb	Native	N/A	None None None	1
Orobanchaceae (Broom-Rape Family)	<i>Aphyllon fasciculatum</i>	APFA	Clustered Broomrape	Herb	Native	N/A	None None None	2
Orobanchaceae (Broom-Rape Family)	<i>Aphyllon purpureum</i>	2JMAPPU	Naked Broom Rape	Herb	Native	N/A	None None None	2
Orobanchaceae (Broom-Rape Family)	<i>Bellardia viscosa</i> <i>Bellardia</i>	PAVI3	Yellow Glandweed	Herb	Naturalized	Limited	None None None	1
Orobanchaceae (Broom-Rape Family)	<i>Castilleja applegatei</i>	CAAP4	Wavy Leaf Paintbrush	Herb	Native	N/A	None None None	20
Orobanchaceae (Broom-Rape Family)	<i>Castilleja applegatei</i> ssp. <i>pinetorum</i>	CAAPP4	Pine Wavy Leaf Paintbrush	Herb	Native	N/A	None None None	27
Orobanchaceae (Broom-Rape Family)	<i>Castilleja arachnoidea</i>	CAAR11	Cobwebby Paintbrush	Herb	Native	N/A	None None None	26

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Orobanchaceae (Broom-Rape Family)	<i>Castilleja attenuata</i>	CAAT25	Valley Tassels	Herb	Native	N/A	None None None	5
Orobanchaceae (Broom-Rape Family)	<i>Castilleja campestris</i>	CACA79	Yellow Owl's Clover	Herb	Native	N/A	None None None	3
Orobanchaceae (Broom-Rape Family)	<i>Castilleja campestris</i> ssp. <i>campestris</i>	CACAC14	Yellow Owl's Clover	Herb	Native	N/A	None None None	20
Orobanchaceae (Broom-Rape Family)	<i>Castilleja foliolosa</i>	CAFO2	Woolly Paintbrush	Herb	Native	N/A	None None None	2
Orobanchaceae (Broom-Rape Family)	<i>Castilleja lacera</i>	CALA68	Foothill Owl's Clover	Herb	Native	N/A	None None None	21
Orobanchaceae (Broom-Rape Family)	<i>Castilleja lassenensis</i>	CALA45	Lassen Paintbrush	Herb	Native	N/A	None None 1B.3	4
Orobanchaceae (Broom-Rape Family)	<i>Castilleja miniata</i>	CAMI12	Great Red Paintbrush	Herb	Native	N/A	None None None	4
Orobanchaceae (Broom-Rape Family)	<i>Castilleja miniata</i> ssp. <i>miniata</i>	CAMIM5	Scarlet Indian Paintbrush	Herb	Native	N/A	None None None	8
Orobanchaceae (Broom-Rape Family)	<i>Castilleja pilosa</i>	CAPI3	Pilose Paintbrush	Herb	Native	N/A	None None None	1
Orobanchaceae (Broom-Rape Family)	<i>Castilleja pruinosa</i>	CAPR14	Frosted Paintbrush	Herb	Native	N/A	None None None	4

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Orobanchaceae (Broom-Rape Family)	<i>Castilleja tenuis</i>	CATE26	Hairy Owl's Clover	Herb	Native	N/A	None None None	14
Orobanchaceae (Broom-Rape Family)	<i>Cordylanthus tenuis</i>	COTE3	Slender Bird's Beak	Herb	Native	N/A	None None None	2
Orobanchaceae (Broom-Rape Family)	<i>Cordylanthus tenuis</i> ssp. <i>tenuis</i>	COTET2	Slender Bird's Beak	Herb	Native	N/A	None None None	1
Orobanchaceae (Broom-Rape Family)	<i>Kopsiopsis strobilacea</i>	2JMKOST	California Ground- Cone	Herb	Native	N/A	None None None	2
Orobanchaceae (Broom-Rape Family)	<i>Orthocarpus bracteosus</i>	ORBR	Bracted Owl's Clover	Herb	Native	N/A	None None 2B.2	3
Orobanchaceae (Broom-Rape Family)	<i>Orthocarpus cuspidatus</i>	ORCU	Broad Scaled Owl's Clover	Herb	Native	N/A	None None None	9
Orobanchaceae (Broom-Rape Family)	<i>Orthocarpus cuspidatus</i> ssp. <i>copelandii</i>	ORCUC	Copeland's Owl's Clover	Herb	Native	N/A	None None None	7
Orobanchaceae (Broom-Rape Family)	<i>Orthocarpus cuspidatus</i> ssp. <i>cryptanthus</i>	ORCUC2	Short Flowered Owl's Clover	Herb	Native	N/A	None None None	4
Orobanchaceae (Broom-Rape Family)	<i>Orthocarpus cuspidatus</i> ssp. <i>cuspidatus</i>	ORCUC3	Siskiyou Mountains Orthocarpus	Herb	Native	N/A	None None 4.3	4
Orobanchaceae (Broom-Rape Family)	<i>Orthocarpus luteus</i>	ORLU2	Yellow Owl's Clover	Herb	Native	N/A	None None None	2

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Orobanchaceae (Broom-Rape Family)	<i>Pedicularis densiflora</i>	PEDE	Warrior's Plume	Herb	Native	N/A	None None None	15
Orobanchaceae (Broom-Rape Family)	<i>Pedicularis groenlandica</i>	PEGR2	Elephant's Head	Herb	Native	N/A	None None None	16
Orobanchaceae (Broom-Rape Family)	<i>Pedicularis racemosa</i>	PERA	Leafy Lousewort	Herb	Native	N/A	None None None	3
Orobanchaceae (Broom-Rape Family)	<i>Pedicularis semibarbata</i>	PESE2	Pine Woods Lousewort	Herb	Native	N/A	None None None	12
Orobanchaceae (Broom-Rape Family)	<i>Triphysaria eriantha</i>	TRER6	Butter-And-Eggs	Herb	Native	N/A	None None None	1
Paeoniaceae (Peony Family)	<i>Paeonia brownii</i>	PABR	Peony	Herb	Native	N/A	None None None	13
Papaveraceae (Poppy Family)	<i>Corydalis caseana</i> ssp. <i>caseana</i>	COCAC7	Sierra Corydalis	Herb	Native	N/A	None None None	4
Papaveraceae (Poppy Family)	<i>Dendromecon rigida</i>	DERI	Bush Poppy	Shrub	Native	N/A	None None None	2
Papaveraceae (Poppy Family)	<i>Dicentra formosa</i>	DIFO	Pacific Bleeding Heart	Herb	Native	N/A	None None None	20
Papaveraceae (Poppy Family)	<i>Eschscholzia caespitosa</i>	ESCA	Foothill Poppy	Herb	Native	N/A	None None None	1

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Papaveraceae (Poppy Family)	<i>Eschscholzia californica</i>	ESCA2	California Poppy	Herb	Native	N/A	None None None	1
Parnassiaceae (Grass-of-Parnassus Family)	<i>Parnassia fimbriata</i>	PAFI3	Rocky Mountain Parnassia	Herb	Native	N/A	None None None	1
Parnassiaceae (Grass-of-Parnassus Family)	<i>Parnassia palustris</i>	PAPA8	Marsh Grass Of Parnassus	Herb	Native	N/A	None None None	3
Phrymaceae (Lopseed Family)	<i>Diplacus jepsonii</i>	2JMDIJE	Jepson's Monkeyflower	Herb	Native	N/A	None None None	14
Phrymaceae (Lopseed Family)	<i>Diplacus kelloggii</i>	2JMDIKE	Kellogg's Monkeyflower	Herb	Native	N/A	None None None	2
Phrymaceae (Lopseed Family)	<i>Diplacus layneae</i>	2JMDILA	Layne's Monkeyflower	Herb	Native	N/A	None None None	5
Phrymaceae (Lopseed Family)	<i>Diplacus leptaleus</i>	MILE	Least Flowered Monkeyflower	Herb	Native	N/A	None None None	1
Phrymaceae (Lopseed Family)	<i>Diplacus mephiticus</i>	2JMDIME	Skunky Monkeyflower	Herb	Native	N/A	None None None	1
Phrymaceae (Lopseed Family)	<i>Diplacus nanus</i>	MINA	Dwarf Monkey Flower	Herb	Native	N/A	None None None	8
Phrymaceae (Lopseed Family)	<i>Diplacus torreyi</i>	2JMDITO	Torrey's Monkeyflower	Herb	Native	N/A	None None None	5

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Phrymaceae (Lopseed Family)	<i>Diplacus tricolor</i>	2JMDITR	Tricolor Monkeyflower	Herb	Native	N/A	None None None	16
Phrymaceae (Lopseed Family)	<i>Erythranthe bicolor</i>	2JMERBI	Yellow And White Monkeyflower	Herb	Native	N/A	None None None	3
Phrymaceae (Lopseed Family)	<i>Erythranthe breweri</i>	2JMERBR	Brewer's Monkeyflower	Herb	Native	N/A	None None None	7
Phrymaceae (Lopseed Family)	<i>Erythranthe floribunda</i>	2JMERFL	Many-Flowered Monkeyflower	Herb	Native	N/A	None None None	5
Phrymaceae (Lopseed Family)	<i>Erythranthe glaucescens</i>	2JMERGL	Shield-Bracted Monkeyflower	Herb	Native	N/A	None None 4.3	1
Phrymaceae (Lopseed Family)	<i>Erythranthe guttata</i>	2JMERGU	Common Monkeyflower	Herb	Native	N/A	None None None	127
Phrymaceae (Lopseed Family)	<i>Erythranthe lewisii</i>	2JMERLE	Great Purple Monkeyflower	Herb	Native	N/A	None None None	1
Phrymaceae (Lopseed Family)	<i>Erythranthe microphylla</i>	2JMERMI	Small Leaved Monkeyflower	Herb	Native	N/A	None None None	6
Phrymaceae (Lopseed Family)	<i>Erythranthe moschata</i>	2JMERMO	Musk Monkeyflower	Herb	Native	N/A	None None None	22
Phrymaceae (Lopseed Family)	<i>Erythranthe nasuta</i>	2JMERNA	Shy Monkeyflower	Herb	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Phrymaceae (Lopseed Family)	<i>Erythranthe primuloides</i>	2JMERPR	Primrose Monkeyflower	Herb	Native	N/A	None None None	105
Phrymaceae (Lopseed Family)	<i>Erythranthe pulsiferae</i>	2JMERPU	Candelabrum Monkeyflower	Herb	Native	N/A	None None None	4
Phrymaceae (Lopseed Family)	<i>Erythranthe tilingii</i>	2JMERTI	Tiling's Monkeyflower	Herb	Native	N/A	None None None	1
Pinaceae (Pine Family)	<i>Abies concolor</i>	ABCO	White Fir	Sapling	Native	N/A	None None None	869
Pinaceae (Pine Family)	<i>Abies magnifica</i>	ABMA	California Red Fir	Tree	Native	N/A	None None None	265
Pinaceae (Pine Family)	<i>Abies magnifica</i> var. <i>magnifica</i>	ABMAM	California Red Fir	Tree	Native	N/A	None None None	82
Pinaceae (Pine Family)	<i>Abies magnifica</i> var. <i>shastensis</i>	ABMAS	Shasta Red Fir	Tree	Native	N/A	None None None	102
Pinaceae (Pine Family)	<i>Pinus albicaulis</i>	PIAL	Whitebark Pine	Tree	Native	N/A	None None None	66
Pinaceae (Pine Family)	<i>Pinus attenuata</i>	PIAT	Knobcone Pine	Sapling	Native	N/A	None None None	30
Pinaceae (Pine Family)	<i>Pinus contorta</i>	PICO	Lodgepole Pine	Sapling	Native	N/A	None None None	59

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Pinaceae (Pine Family)	<i>Pinus contorta</i> ssp. <i>murrayana</i>	PICOM4	Lodgepole Pine	Sapling	Native	N/A	None None None	332
Pinaceae (Pine Family)	<i>Pinus jeffreyi</i>	PIJE	Jeffrey Pine	Seedling	Native	N/A	None None None	259
Pinaceae (Pine Family)	<i>Pinus lambertiana</i>	PILA	Sugar Pine	Sapling	Native	N/A	None None None	199
Pinaceae (Pine Family)	<i>Pinus monophylla</i>	PIMO	Singleleaf Pinyon Pine	Tree	Native	N/A	None None None	1
Pinaceae (Pine Family)	<i>Pinus monticola</i>	PIMO3	Western White Pine	Tree	Native	N/A	None None None	154
Pinaceae (Pine Family)	<i>Pinus ponderosa</i>	PIPO	Ponderosa Pine	Sapling	Native	N/A	None None None	789
Pinaceae (Pine Family)	<i>Pinus ponderosa</i> var. <i>pacifica</i>	PIPOP2	Pacific Ponderosa Pine	Sapling	Native	N/A	None None None	2
Pinaceae (Pine Family)	<i>Pinus ponderosa</i> var. <i>ponderosa</i>	PIPOP	North Plateau Ponderosa Pine	Tree	Native	N/A	None None None	43
Pinaceae (Pine Family)	<i>Pinus sabiniana</i>	PISA2	Gray	Tree	Native	N/A	None None None	78
Pinaceae (Pine Family)	<i>Pseudotsuga menziesii</i> var. <i>menziesii</i>	PSMEM	Douglas-Fir	Seedling	Native	N/A	None None None	351

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Pinaceae (Pine Family)	<i>Tsuga mertensiana</i>	TSME	Mountain Hemlock	Sapling	Native	N/A	None None None	109
Plantaginaceae (Plantain Family)	<i>Antirrhinum cornutum</i>	ANCO24	Spurred Snapdragon	Herb	Native	N/A	None None None	1
Plantaginaceae (Plantain Family)	<i>Antirrhinum vexillocalyculatum</i> ssp. <i>breweri</i>	ANVEB	Wiry Snapdragon	Herb	Native	N/A	None None None	1
Plantaginaceae (Plantain Family)	<i>Collinsia grandiflora</i>	COGR2	Large Flowered Collinsia	Herb	Native	N/A	None None None	7
Plantaginaceae (Plantain Family)	<i>Collinsia heterophylla</i>	COHE	Chinese Houses	Herb	Native	N/A	None None None	2
Plantaginaceae (Plantain Family)	<i>Collinsia linearis</i>	COLI	Narrow Leaf Collinsia	Herb	Native	N/A	None None None	3
Plantaginaceae (Plantain Family)	<i>Collinsia parviflora</i>	COPA3	Blue-Eyed Mary	Herb	Native	N/A	None None None	18
Plantaginaceae (Plantain Family)	<i>Collinsia rattanii</i>	CORA2	Rattan's Collinsia	Herb	Native	N/A	None None None	7
Plantaginaceae (Plantain Family)	<i>Collinsia sparsiflora</i>	COSP	Few Flowered Collinsia	Herb	Native	N/A	None None None	11
Plantaginaceae (Plantain Family)	<i>Collinsia sparsiflora</i> var. <i>collina</i>	COSPC	Hillside Collinsia	Herb	Native	N/A	None None None	1

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Plantaginaceae (Plantain Family)	<i>Collinsia sparsiflora</i> var. <i>sparsiflora</i>	COSPS	Few Flowered Collinsia	Herb	Native	N/A	None None None	2
Plantaginaceae (Plantain Family)	<i>Collinsia tinctoria</i>	COTI	Tincture Plant	Herb	Native	N/A	None None None	1
Plantaginaceae (Plantain Family)	<i>Collinsia torreyi</i> var. <i>wrightii</i>	COTOW	Wright's Collinsia	Herb	Native	N/A	None None None	1
Plantaginaceae (Plantain Family)	<i>Gratiola ebracteata</i>	GREB	Bractless Hedge-Hyssop	Herb	Native	N/A	None None None	12
Plantaginaceae (Plantain Family)	<i>Gratiola neglecta</i>	GRNE	Clammy Hedge-Hyssop	Herb	Native	N/A	None None None	1
Plantaginaceae (Plantain Family)	<i>Hippuris vulgaris</i>	HIVU2	Mare's Tail	Herb	Native	N/A	None None None	1
Plantaginaceae (Plantain Family)	<i>Keckiella breviflora</i>	KEBR	Gaping Keckiella	Shrub	Native	N/A	None None None	5
Plantaginaceae (Plantain Family)	<i>Keckiella breviflora</i> var. <i>glabrisepala</i>	KEBRG2	Hairless Gaping Keckiella	Shrub	Native	N/A	None None None	2
Plantaginaceae (Plantain Family)	<i>Keckiella lemmonii</i>	KELE	Lemmon's Keckiella	Shrub	Native	N/A	None None None	7
Plantaginaceae (Plantain Family)	<i>Linaria dalmatica</i> ssp. <i>dalmatica</i>	LIDAD	Dalmatian Toadflax	Herb	Naturalized	Moderate	None None None	1

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Plantaginaceae (Plantain Family)	<i>Penstemon azureus</i>	PEAZ	Blue Penstemon	Herb	Native	N/A	None None None	1
Plantaginaceae (Plantain Family)	<i>Penstemon azureus</i> var. <i>azureus</i>	PEAZA4	Azure Penstemon	Herb	Native	N/A	None None None	1
Plantaginaceae (Plantain Family)	<i>Penstemon davidsonii</i> var. <i>davidsonii</i>	PEDAD	Davidson's Beardtongue	Herb	Native	N/A	None None None	31
Plantaginaceae (Plantain Family)	<i>Penstemon deustus</i>	PEDE4	Hot-Rock Penstemon	Herb	Native	N/A	None None None	47
Plantaginaceae (Plantain Family)	<i>Penstemon deustus</i> var. <i>deustus</i>	PEDED2	Scabland Penstemon	Herb	Native	N/A	None None None	10
Plantaginaceae (Plantain Family)	<i>Penstemon deustus</i> var. <i>pedicellatus</i>	PEDEP	Hot Rock Beardtongue	Herb	Native	N/A	None None None	9
Plantaginaceae (Plantain Family)	<i>Penstemon deustus</i> var. <i>suffrutescens</i>	PEDES2	Hot Rock Beardtongue	Herb	Native	N/A	None None None	6
Plantaginaceae (Plantain Family)	<i>Penstemon gracilentus</i>	PEGR4	Slender Beardtongue	Herb	Native	N/A	None None None	118
Plantaginaceae (Plantain Family)	<i>Penstemon heterodoxus</i>	PEHE2	Sierra Penstemon	Herb	Native	N/A	None None None	6
Plantaginaceae (Plantain Family)	<i>Penstemon heterodoxus</i> var. <i>shastensis</i>	PEHES2	Shasta Beardtongue	Herb	Native	N/A	None None 4.3	17

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Plantaginaceae (Plantain Family)	<i>Penstemon humilis</i> var. <i>humilis</i>	PEHUH2	Low Beardtongue	Herb	Native	N/A	None None None	12
Plantaginaceae (Plantain Family)	<i>Penstemon laetus</i>	PELA7	Mountain Blue Penstemon	Herb	Native	N/A	None None None	14
Plantaginaceae (Plantain Family)	<i>Penstemon laetus</i> var. <i>laetus</i>	PELAL11	Mountain Blue Penstemon	Herb	Native	N/A	None None None	15
Plantaginaceae (Plantain Family)	<i>Penstemon laetus</i> var. <i>leptosepalus</i>	PELAL10	Mountain Blue Penstemon	Herb	Native	N/A	None None None	4
Plantaginaceae (Plantain Family)	<i>Penstemon laetus</i> var. <i>sagittatus</i>	PELAS3	Mountain Blue Penstemon	Herb	Native	N/A	None None None	4
Plantaginaceae (Plantain Family)	<i>Penstemon neotericus</i>	PENE2	Plumas County Beardtongue	Herb	Native	N/A	None None None	12
Plantaginaceae (Plantain Family)	<i>Penstemon newberryi</i>	PENE3	Mountain Pride	Herb	Native	N/A	None None None	11
Plantaginaceae (Plantain Family)	<i>Penstemon newberryi</i> var. <i>newberryi</i>	PENEN4	Newberry's Penstemon	Herb	Native	N/A	None None None	8
Plantaginaceae (Plantain Family)	<i>Penstemon roezlii</i>	PERO12	Regel's Mountain Penstemon	Herb	Native	N/A	None None None	20
Plantaginaceae (Plantain Family)	<i>Penstemon rydbergii</i> var. <i>oreocharis</i>	PERYO	Meadow Beardtongue	Herb	Native	N/A	None None None	26

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Plantaginaceae (Plantain Family)	<i>Penstemon speciosus</i>	PESP	Showy Penstemon	Herb	Native	N/A	None None None	12
Plantaginaceae (Plantain Family)	<i>Plantago elongata</i>	PLEL	Coastal Plantain	Herb	Native	N/A	None None None	1
Plantaginaceae (Plantain Family)	<i>Plantago erecta</i>	PLER3	California Plantain	Herb	Native	N/A	None None None	2
Plantaginaceae (Plantain Family)	<i>Plantago lanceolata</i>	PLLA	English Plantain	Herb	Naturalized	Limited	None None None	11
Plantaginaceae (Plantain Family)	<i>Plantago major</i>	PLMA2	Common Plantain	Herb	Naturalized	N/A	None None None	1
Plantaginaceae (Plantain Family)	<i>Tonella tenella</i>	TOTE	Small Flowered Tonella	Herb	Native	N/A	None None None	3
Plantaginaceae (Plantain Family)	<i>Veronica americana</i>	VEAM2	American Brooklime	Herb	Native	N/A	None None None	39
Plantaginaceae (Plantain Family)	<i>Veronica anagallis-aquatica</i>	VEAN2	Water Speedwell	Herb	Naturalized	N/A	None None None	2
Plantaginaceae (Plantain Family)	<i>Veronica arvensis</i>	VEAR	Speedwell	Herb	Naturalized	N/A	None None None	3
Plantaginaceae (Plantain Family)	<i>Veronica catenata</i>	VECA7	Chain Speedwell	Herb	Native	N/A	None None None	3

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Plantaginaceae (Plantain Family)	<i>Veronica cusickii</i>	VECU	Cusick's Speedwell	Herb	Native	N/A	None None 4.3	4
Plantaginaceae (Plantain Family)	<i>Veronica peregrina</i> ssp. <i>xalapensis</i>	VEPEX2	Purslane Speedwell	Herb	Native	N/A	None None None	21
Plantaginaceae (Plantain Family)	<i>Veronica scutellata</i>	VESEC2	Marsh Speedwell	Herb	Native	N/A	None None None	4
Plantaginaceae (Plantain Family)	<i>Veronica serpyllifolia</i> ssp. <i>humifusa</i>	VESEH2	Sprawling Speedwell	Herb	Native	N/A	None None None	3
Plantaginaceae (Plantain Family)	<i>Veronica wormskjoldii</i>	VEWO2	American Alpine Speedwell	Herb	Native	N/A	None None None	7
Poaceae (Grass Family)	<i>Aegilops cylindrica</i>	AECY	Jointed Goat Grass	Herb	Naturalized	Watch List	None None None	4
Poaceae (Grass Family)	<i>Agropyron cristatum</i> ssp. <i>pectinatum</i>	AGCRP8	Crested Wheatgrass	Herb	Naturalized	N/A	None None None	16
Poaceae (Grass Family)	<i>Agrostis capillaris</i>	AGCA5	Colonial Bent	Herb	Naturalized	N/A	None None None	19
Poaceae (Grass Family)	<i>Agrostis exarata</i>	AGEX	Spike Bent Grass	Herb	Native	N/A	None None None	14
Poaceae (Grass Family)	<i>Agrostis gigantea</i>	AGGI2	Redtop	Herb	Naturalized	N/A	None None None	16

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Poaceae (Grass Family)	<i>Agrostis humilis</i>	AGHU	Mountain Bent Grass	Herb	Native	N/A	None None 2B.3	1
Poaceae (Grass Family)	<i>Agrostis idahoensis</i>	AGID	Idaho Redtop	Herb	Native	N/A	None None None	13
Poaceae (Grass Family)	<i>Agrostis oregonensis</i>	AGOR	Oregon Redtop	Herb	Native	N/A	None None None	4
Poaceae (Grass Family)	<i>Agrostis pallens</i>	AGPA8	Dune Bent Grass	Herb	Native	N/A	None None None	20
Poaceae (Grass Family)	<i>Agrostis scabra</i>	AGSC5	Rough Bent Grass	Herb	Native	N/A	None None None	15
Poaceae (Grass Family)	<i>Agrostis stolonifera</i>	AGST2	Creeping Bent	Herb	Naturalized	Limited	None None None	3
Poaceae (Grass Family)	<i>Agrostis variabilis</i>	AGVA	Mountain Bent Grass	Herb	Native	N/A	None None None	6
Poaceae (Grass Family)	<i>Aira caryophyllea</i>	AICA	Silver Hair Grass	Herb	Naturalized	N/A	None None None	13
Poaceae (Grass Family)	<i>Alopecurus aequalis</i>	ALAE	Short-Awn Foxtail	Herb	Native	N/A	None None None	2
Poaceae (Grass Family)	<i>Alopecurus aequalis</i> var. <i>aequalis</i>	ALAEA	Shortawn Foxtail	Herb	Native	N/A	None None None	6

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Poaceae (Grass Family)	<i>Alopecurus geniculatus</i>	ALGE2	Water Foxtail	Herb	Native	N/A	None None None	9
Poaceae (Grass Family)	<i>Alopecurus pratensis</i>	ALPR3	Meadow Foxtail	Herb	Naturalized	Watch List	None None None	8
Poaceae (Grass Family)	<i>Alopecurus saccatus</i>	ALSA3	Foxtail	Herb	Native	N/A	None None None	6
Poaceae (Grass Family)	<i>Anthoxanthum odoratum</i>	ANOD	Sweet Vernal Grass	Herb	Naturalized	Limited	None None None	1
Poaceae (Grass Family)	<i>Apera interrupta</i>	APIN	Dense Silky Bent	Herb	Naturalized	N/A	None None None	4
Poaceae (Grass Family)	<i>Arrhenatherum elatius</i>	AREL3	Tall Oat Grass	Herb	Naturalized	N/A	None None None	1
Poaceae (Grass Family)	<i>Avena barbata</i>	AVBA	Slender Wild Oat	Herb	Naturalized	Moderate	None None None	11
Poaceae (Grass Family)	<i>Avena fatua</i>	AVFA	Wild Oat	Herb	Naturalized	Moderate	None None None	3
Poaceae (Grass Family)	<i>Beckmannia syzigachne</i>	BESY	American Slough Grass	Herb	Native	N/A	None None None	1
Poaceae (Grass Family)	<i>Brachypodium distachyon</i>	BRDI2	Purple False Brome	Herb	Naturalized	Moderate	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Poaceae (Grass Family)	<i>Briza maxima</i>	BRMA	Rattlesnake Grass	Herb	Naturalized	Limited	None None None	1
Poaceae (Grass Family)	<i>Bromus arenarius</i>	BRAR3	Australian Chess	Herb	Naturalized	N/A	None None None	1
Poaceae (Grass Family)	<i>Bromus arvensis</i>	BRAR5	Field Brome	Herb	Waif	N/A	None None None	1
Poaceae (Grass Family)	<i>Bromus carinatus</i> var. <i>marginatus</i>	BRCAM2	Mountain Brome	Herb	Native	N/A	None None None	17
Poaceae (Grass Family)	<i>Bromus catharticus</i>	BRCA6	Rescue Grass	Herb	Naturalized	N/A	None None None	1
Poaceae (Grass Family)	<i>Bromus commutatus</i>	BRCO4	Hairy Chess	Herb	Naturalized	N/A	None None None	11
Poaceae (Grass Family)	<i>Bromus diandrus</i>	BRDI3	Ripgut Grass	Herb	Naturalized	Moderate	None None None	46
Poaceae (Grass Family)	<i>Bromus grandis</i>	BRGR4	Tall Brome	Herb	Native	N/A	None None None	1
Poaceae (Grass Family)	<i>Bromus hordeaceus</i>	BRHO2	Soft Chess	Herb	Naturalized	Limited	None None None	80
Poaceae (Grass Family)	<i>Bromus inermis</i>	BRIN2	Smooth Brome	Herb	Naturalized	N/A	None None None	2

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Poaceae (Grass Family)	<i>Bromus japonicus</i>	BRJA	Japanese Chess	Herb	Naturalized	Limited	None None None	9
Poaceae (Grass Family)	<i>Bromus laevipes</i>	BRLA3	Chinook Brome	Herb	Native	N/A	None None None	14
Poaceae (Grass Family)	<i>Bromus madritensis</i>	BRMA3	Foxtail Chess	Herb	Naturalized	N/A	None None None	7
Poaceae (Grass Family)	<i>Bromus orcuttianus</i>	BROR2	Orcutt's Brome	Herb	Native	N/A	None None None	19
Poaceae (Grass Family)	<i>Bromus racemosus</i>	BRRA2	Smooth Brome	Herb	Naturalized	N/A	None None None	1
Poaceae (Grass Family)	<i>Bromus rubens</i>	BRRU2	Red Brome	Herb	Naturalized	High	None None None	9
Poaceae (Grass Family)	<i>Bromus secalinus</i>	BRSE	Rye Brome	Herb	Naturalized	N/A	None None None	6
Poaceae (Grass Family)	<i>Bromus sitchensis</i>	BRSI	Sitka Brome	Herb	Native	N/A	None None None	47
Poaceae (Grass Family)	<i>Bromus sitchensis</i> var. <i>carinatus</i>	2JMBSIC	California Brome	Herb	Native	N/A	None None None	98
Poaceae (Grass Family)	<i>Bromus sitchensis</i> var. <i>marginatus</i>	BRSIM	Mountain Brome	Herb	Native	N/A	None None None	31

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Poaceae (Grass Family)	<i>Bromus sterilis</i>	BRST2	Poverty Brome	Herb	Naturalized	N/A	None None None	22
Poaceae (Grass Family)	<i>Bromus suksdorfii</i>	BRSU2	Suksdorf's Brome	Herb	Native	N/A	None None None	2
Poaceae (Grass Family)	<i>Bromus tectorum</i>	BRTE	Cheat Grass	Herb	Naturalized	High	None None None	258
Poaceae (Grass Family)	<i>Bromus vulgaris</i>	BRVU	Columbia Brome	Herb	Native	N/A	None None None	8
Poaceae (Grass Family)	<i>Calamagrostis canadensis</i>	CACA4	Canada Reedgrass	Herb	Native	N/A	None None None	13
Poaceae (Grass Family)	<i>Calamagrostis canadensis</i> var. <i>canadensis</i>	CACAC10	Bluejoint Reed Grass	Herb	Native	N/A	None None None	2
Poaceae (Grass Family)	<i>Calamagrostis canadensis</i> var. <i>langsдорffii</i>	CACAL3	Bluejoint	Herb	Native	N/A	None None None	1
Poaceae (Grass Family)	<i>Calamagrostis koelerioides</i>	CAKO	Dense-Pine Reed Grass	Herb	Native	N/A	None None None	1
Poaceae (Grass Family)	<i>Cinna latifolia</i>	CILA2	Drooping Woodreed	Herb	Native	N/A	None None None	1
Poaceae (Grass Family)	<i>Crypsis vaginiflora</i>	CRVA2	Modest Prickle Grass	Herb	Naturalized	N/A	None None None	2

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Poaceae (Grass Family)	<i>Cynosurus echinatus</i>	CYEC	Bristly Dogtail Grass	Herb	Naturalized	Moderate	None None None	20
Poaceae (Grass Family)	<i>Dactylis glomerata</i>	DAGL	Orchardgrass	Herb	Naturalized	Limited	None None None	9
Poaceae (Grass Family)	<i>Danthonia californica</i>	DACA3	California Oat Grass	Herb	Native	N/A	None None None	33
Poaceae (Grass Family)	<i>Danthonia intermedia</i> ssp. <i>intermedia</i>	2JMDAINI	Intermediate Oat Grass	Herb	Native	N/A	None None None	23
Poaceae (Grass Family)	<i>Danthonia unispicata</i>	DAUN	One-Spike Oat Grass	Herb	Native	N/A	None None None	28
Poaceae (Grass Family)	<i>Deschampsia cespitosa</i>	DECE	Tufted Hair Grass	Herb	Native	N/A	None None None	30
Poaceae (Grass Family)	<i>Deschampsia cespitosa</i> ssp. <i>cespitosa</i>	DECEC2	Tufted Hairgrass	Herb	Native	N/A	None None None	35
Poaceae (Grass Family)	<i>Deschampsia danthonioides</i>	DEDA	Annual Hair Grass	Herb	Native	N/A	None None None	78
Poaceae (Grass Family)	<i>Deschampsia elongata</i>	DEEL	Slender Hair Grass	Herb	Native	N/A	None None None	27
Poaceae (Grass Family)	<i>Distichlis spicata</i>	DISP	Salt Grass	Herb	Native	N/A	None None None	20

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Poaceae (Grass Family)	<i>Elymus caput-medusae</i>	ELCA13	Medusa Head	Herb	Naturalized	High	None None None	82
Poaceae (Grass Family)	<i>Elymus cinereus</i>	ELCI2	Great Basin Wild-Rye	Herb	Native	N/A	None None None	27
Poaceae (Grass Family)	<i>Elymus elymoides</i>	ELEL5	Squirreltail	Herb	Native	N/A	None None None	315
Poaceae (Grass Family)	<i>Elymus elymoides</i> var. <i>californicus</i>	2JMELELC	Squirrel Tail Grass	Herb	Native	N/A	None None None	131
Poaceae (Grass Family)	<i>Elymus elymoides</i> var. <i>elymoides</i>	2JMELELE	Squirrel Tail Grass	Herb	Native	N/A	None None None	25
Poaceae (Grass Family)	<i>Elymus glaucus</i>	ELGL	Blue Wild-Rye	Herb	Native	N/A	None None None	111
Poaceae (Grass Family)	<i>Elymus glaucus</i> ssp. <i>glaucus</i>	ELGLG	Blue Wild Rye	Herb	Native	N/A	None None None	67
Poaceae (Grass Family)	<i>Elymus hispidus</i>	ELHI6	Intermediate Wheatgrass	Herb	Naturalized	N/A	None None None	9
Poaceae (Grass Family)	<i>Elymus lanceolatus</i> ssp. <i>lanceolatus</i>	ELLAL	Thick-Spike Wheat Grass	Herb	Native	N/A	None None None	1
Poaceae (Grass Family)	<i>Elymus multisetus</i>	ELMU3	Big Squirreltail	Herb	Native	N/A	None None None	52

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Poaceae (Grass Family)	<i>Elymus ponticus</i>	2JMELPO	Tall Wheat Grass	Herb	Naturalized	N/A	None None None	6
Poaceae (Grass Family)	<i>Elymus repens</i>	ELRE4	Quack Grass	Herb	Naturalized	N/A	None None None	1
Poaceae (Grass Family)	<i>Elymus spicatus</i>	ELSP3	Blue Bunch Wheat Grass	Herb	Native	N/A	None None None	42
Poaceae (Grass Family)	<i>Elymus stebbinsii</i>	ELST3	Stebbins' Wheat Grass	Herb	Native	N/A	None None None	1
Poaceae (Grass Family)	<i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i>	ELTRT	Slender Wheat Grass	Herb	Native	N/A	None None None	3
Poaceae (Grass Family)	<i>Elymus triticoides</i>	ELTR3	Beardless Wild-Rye	Herb	Native	N/A	None None None	6
Poaceae (Grass Family)	<i>Elymus x hansenii</i> - <i>Elymus glaucus</i> and <i>E. elymoides</i> hybrid	ELHA3	Elymus Hybrid	Herb	Native	N/A	None None None	3
Poaceae (Grass Family)	<i>Eragrostis mexicana</i> ssp. <i>virescens</i>	ERMEV	Chilean Love Grass	Herb	Native	N/A	None None None	1
Poaceae (Grass Family)	<i>Festuca arundinacea</i>	FEAR3	Tall Fescue	Herb	Naturalized	Moderate	None None None	7
Poaceae (Grass Family)	<i>Festuca bromoides</i>	FEBR4	Brome Fescue	Herb	Naturalized	N/A	None None None	9

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Poaceae (Grass Family)	<i>Festuca californica</i>	FECA	California Fescue	Herb	Native	N/A	None None None	5
Poaceae (Grass Family)	<i>Festuca idahoensis</i>	FEID	Idaho Fescue	Herb	Native	N/A	None None None	153
Poaceae (Grass Family)	<i>Festuca microstachys</i>	FEMI2	Small Fescue	Herb	Native	N/A	None None None	102
Poaceae (Grass Family)	<i>Festuca myuros</i>	FEMY2	Rattail Sixweeks Grass	Herb	Naturalized	Moderate	None None None	58
Poaceae (Grass Family)	<i>Festuca occidentalis</i>	FEOC	Western Fescue	Herb	Native	N/A	None None None	49
Poaceae (Grass Family)	<i>Festuca perennis</i>	2JMFEPE	Rye Grass	Herb	Naturalized	Moderate	None None None	9
Poaceae (Grass Family)	<i>Festuca pratensis</i>	FEPR	Meadow Fescue	Herb	Naturalized	N/A	None None None	1
Poaceae (Grass Family)	<i>Festuca rubra</i>	FERU2	Red Fescue	Herb	Native	N/A	None None None	3
Poaceae (Grass Family)	<i>Festuca subulata</i>	FESU	Bearded Fescue	Herb	Native	N/A	None None None	2
Poaceae (Grass Family)	<i>Festuca subuliflora</i>	FESU2	Crinkle-Awn Fescue	Herb	Native	N/A	None None None	2

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Poaceae (Grass Family)	<i>Festuca trachyphylla</i>	FETR3	Sheep Fescue	Herb	Naturalized	N/A	None None None	2
Poaceae (Grass Family)	<i>Gastridium phleoides</i>	GAPH2	Nit Grass	Herb	Naturalized	N/A	None None None	2
Poaceae (Grass Family)	<i>Glyceria borealis</i>	GLBO	Boreal Manna Grass	Herb	Native	N/A	None None None	7
Poaceae (Grass Family)	<i>Glyceria elata</i>	GLEL	Fowl Manna Grass	Herb	Native	N/A	None None None	45
Poaceae (Grass Family)	<i>Glyceria striata</i>	GLST	Ridged Manna Grass	Herb	Native	N/A	None None None	18
Poaceae (Grass Family)	<i>Holcus lanatus</i>	HOLA	Common Velvet Grass	Herb	Naturalized	Moderate	None None None	19
Poaceae (Grass Family)	<i>Hordeum brachyantherum</i>	HOBR2	Meadow Barley	Herb	Native	N/A	None None None	38
Poaceae (Grass Family)	<i>Hordeum brachyantherum</i> <i>ssp. brachyantherum</i>	HOBRB2	Northern Barley	Herb	Native	N/A	None None None	12
Poaceae (Grass Family)	<i>Hordeum jubatum</i> <i>ssp. jubatum</i>	HOJUJ	Foxtail Barley	Herb	Native	N/A	None None None	3
Poaceae (Grass Family)	<i>Hordeum marinum</i> <i>ssp. gussoneanum</i>	HOMAG	Mediterranean Barley	Herb	Naturalized	Moderate	None None None	13

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Poaceae (Grass Family)	<i>Hordeum murinum</i>	HOMU	Wall Barley	Herb	Naturalized	Moderate	None None None	4
Poaceae (Grass Family)	<i>Hordeum murinum</i> ssp. <i>leporinum</i>	HOMUL	Hare Barley	Herb	Naturalized	N/A	None None None	2
Poaceae (Grass Family)	<i>Koeleria macrantha</i>	KOMA	June Grass	Herb	Native	N/A	None None None	18
Poaceae (Grass Family)	<i>Leersia oryzoides</i>	LEOR	Rice Cutgrass	Herb	Native	N/A	None None None	2
Poaceae (Grass Family)	<i>Melica aristata</i>	MEAR3	Awned Melic	Herb	Native	N/A	None None None	17
Poaceae (Grass Family)	<i>Melica bulbosa</i>	MEBU	Oniongrass	Herb	Native	N/A	None None None	4
Poaceae (Grass Family)	<i>Melica californica</i>	MECA2	California Melic	Herb	Native	N/A	None None None	13
Poaceae (Grass Family)	<i>Melica harfordii</i>	MEHA2	Harford's Melic	Herb	Native	N/A	None None None	8
Poaceae (Grass Family)	<i>Melica spectabilis</i>	MESP	Purple Oniongrass	Herb	Native	N/A	None None 4.3	5
Poaceae (Grass Family)	<i>Melica subulata</i>	MESU	Alaskan Oniongrass	Herb	Native	N/A	None None None	28

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Poaceae (Grass Family)	<i>Melica torreyana</i>	METO	Torrey's Melic	Herb	Native	N/A	None None None	6
Poaceae (Grass Family)	<i>Muhlenbergia andina</i>	MUAN	Foxtail Muhly	Herb	Native	N/A	None None None	1
Poaceae (Grass Family)	<i>Muhlenbergia asperifolia</i>	MUAS	Scratch Grass	Herb	Native	N/A	None None None	7
Poaceae (Grass Family)	<i>Muhlenbergia filiformis</i>	MUF12	Pull-Up Muhly	Herb	Native	N/A	None None None	48
Poaceae (Grass Family)	<i>Muhlenbergia jonesii</i>	MUJO	Jones' Muhly	Herb	Native	N/A	None None 4.3	4
Poaceae (Grass Family)	<i>Muhlenbergia richardsonis</i>	MURI	Mat Muhly	Herb	Native	N/A	None None None	50
Poaceae (Grass Family)	<i>Muhlenbergia rigens</i>	MURI2	Deer Grass	Herb	Native	N/A	None None None	8
Poaceae (Grass Family)	<i>Orcuttia tenuis</i>	ORTE	Slender Orcutt Grass	Herb	Native	N/A	FT CE 1B.1	4
Poaceae (Grass Family)	<i>Panicum capillare</i>	PACA6	Witch Grass	Herb	Native	N/A	None None None	3
Poaceae (Grass Family)	<i>Phalaris aquatica</i>	PHAQ	Harding Grass	Herb	Naturalized	Moderate	None None None	3

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Poaceae (Grass Family)	<i>Phalaris arundinacea</i>	PHAR3	Reed Canary Grass	Herb	Native	N/A	None None None	28
Poaceae (Grass Family)	<i>Phleum alpinum</i>	PHAL2	Alpine Timothy	Herb	Native	N/A	None None None	14
Poaceae (Grass Family)	<i>Phleum pratense</i>	PHPR3	Cultivated Timothy	Herb	Naturalized	N/A	None None None	21
Poaceae (Grass Family)	<i>Poa annua</i>	POAN	Annual Blue Grass	Herb	Naturalized	N/A	None None None	2
Poaceae (Grass Family)	<i>Poa bolanderi</i>	POBO	Bolander's Bluegrass	Herb	Native	N/A	None None None	4
Poaceae (Grass Family)	<i>Poa bulbosa</i>	POBU	Bulbous Blue Grass	Herb	Naturalized	N/A	None None None	112
Poaceae (Grass Family)	<i>Poa bulbosa</i> ssp. <i>vivipara</i>	2JMPOBUV	Bulbous Blue Grass	Herb	Naturalized	N/A	None None None	13
Poaceae (Grass Family)	<i>Poa compressa</i>	POCO	Canadian Blue Grass	Herb	Naturalized	N/A	None None None	2
Poaceae (Grass Family)	<i>Poa cusickii</i> ssp. <i>epilis</i>	POCUE2	Skyline Blue Grass	Herb	Native	N/A	None None None	6
Poaceae (Grass Family)	<i>Poa howellii</i>	POHO6	Howell's Blue Grass	Herb	Native	N/A	None None None	1

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Poaceae (Grass Family)	<i>Poa leptocoma</i> ssp. <i>leptocoma</i>	POLEL2	Bog Blue Grass	Herb	Native	N/A	None None None	6
Poaceae (Grass Family)	<i>Poa palustris</i>	POPA2	Fowl Blue Grass	Herb	Naturalized	N/A	None None None	16
Poaceae (Grass Family)	<i>Poa pratensis</i> ssp. <i>pratensis</i>	POPRP2	Kentucky Blue Grass	Herb	Naturalized	Limited	None None None	171
Poaceae (Grass Family)	<i>Poa secunda</i>	POSE	Nevada Blue Grass	Herb	Native	N/A	None None None	128
Poaceae (Grass Family)	<i>Poa secunda</i> ssp. <i>juncifolia</i>	POSEJ	Rush Blue Grass	Herb	Native	N/A	None None None	25
Poaceae (Grass Family)	<i>Poa secunda</i> ssp. <i>secunda</i>	POSES6	One-Sided Blue Grass	Herb	Native	N/A	None None None	127
Poaceae (Grass Family)	<i>Poa wheeleri</i>	POWH2	Hooker's Bluegrass	Herb	Native	N/A	None None None	23
Poaceae (Grass Family)	<i>Polypogon interruptus</i>	POIN7	Ditch Beard Grass	Herb	Native	N/A	None None None	1
Poaceae (Grass Family)	<i>Polypogon monspeliensis</i>	POMO5	Annual Beard Grass	Herb	Naturalized	Limited	None None None	2
Poaceae (Grass Family)	<i>Puccinellia distans</i>	PUDI	European Alkali Grass	Herb	Naturalized	N/A	None None None	1

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Poaceae (Grass Family)	<i>Puccinellia nuttalliana</i>	PUNU2	Nuttall's Alkali Grass	Herb	Native	N/A	None None None	12
Poaceae (Grass Family)	<i>Scribneria bolanderi</i>	SCBO	Scribneria	Herb	Native	N/A	None None None	5
Poaceae (Grass Family)	<i>Stipa comata</i>	STCO4	Needle-And-Thread	Herb	Native	N/A	None None None	7
Poaceae (Grass Family)	<i>Stipa lemmonii</i>	STLE2	Lemmon's Needle Grass	Herb	Native	N/A	None None None	81
Poaceae (Grass Family)	<i>Stipa lemmonii</i> var. <i>lemmonii</i>	STLEL	Lemmon's Needle Grass	Herb	Native	N/A	None None None	37
Poaceae (Grass Family)	<i>Stipa lettermanii</i>	STLE4	Letterman's Needle Grass	Herb	Native	N/A	None None None	3
Poaceae (Grass Family)	<i>Stipa nelsonii</i> var. <i>dorei</i>	STNED2	Mountain Needle Grass	Herb	Native	N/A	None None None	15
Poaceae (Grass Family)	<i>Stipa nevadensis</i>	STNE4	Nevada Needle Grass	Herb	Native	N/A	None None None	1
Poaceae (Grass Family)	<i>Stipa occidentalis</i>	STOC2	Western Needlegrass	Herb	Native	N/A	None None None	46
Poaceae (Grass Family)	<i>Stipa occidentalis</i> var. <i>californica</i>	STOCC	California Needle Grass	Herb	Native	N/A	None None None	288

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Poaceae (Grass Family)	<i>Stipa occidentalis</i> var. <i>occidentalis</i>	2JMSTOCO	Western Needle Grass	Herb	Native	N/A	None None None	1
Poaceae (Grass Family)	<i>Stipa occidentalis</i> var. <i>pubescens</i>	STOCP	Common Western Needle Grass	Herb	Native	N/A	None None None	83
Poaceae (Grass Family)	<i>Stipa pulchra</i>	STPU2	Purple Needle Grass	Herb	Native	N/A	None None None	2
Poaceae (Grass Family)	<i>Stipa stillmanii</i>	STST2	Stillman's Needle Grass	Herb	Native	N/A	None None None	3
Poaceae (Grass Family)	<i>Stipa thurberiana</i>	STTH2	Thurber's Needle Grass	Herb	Native	N/A	None None None	16
Poaceae (Grass Family)	<i>Torreyochloa pallida</i> var. <i>pauciflora</i>	TOPAP3	Weak Manna Grass	Herb	Native	N/A	None None None	3
Poaceae (Grass Family)	<i>Trisetum canescens</i>	TRCA21	Tall False Oat	Herb	Native	N/A	None None None	22
Poaceae (Grass Family)	<i>Trisetum spicatum</i>	TRSP2	Spike False Oat	Herb	Native	N/A	None None None	7
Poaceae (Grass Family)	<i>Vahlodea atropurpurea</i>	VAAT2	Mountain Hairgrass	Herb	Native	N/A	None None 4.3	1
Poaceae (Grass Family)	<i>Ventenata dubia</i>	VEDU	North Africa Grass	Herb	Naturalized	Watch List	None None None	40

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Polemoniaceae (Phlox Family)	<i>Allophyllum divaricatum</i>	ALDI4	Purple False Gilia	Herb	Native	N/A	None None None	1
Polemoniaceae (Phlox Family)	<i>Allophyllum integrifolium</i>	ALIN3	White Allophyllum	Herb	Native	N/A	None None None	1
Polemoniaceae (Phlox Family)	<i>Collomia grandiflora</i>	COGR4	Large-Flowered Collomia	Herb	Native	N/A	None None None	99
Polemoniaceae (Phlox Family)	<i>Collomia heterophylla</i>	COHE2	Variable-Leaf Collomia	Herb	Native	N/A	None None None	6
Polemoniaceae (Phlox Family)	<i>Collomia larsenii</i>	COLA8	Talus Collomia	Herb	Native	N/A	None None 2B.2	1
Polemoniaceae (Phlox Family)	<i>Collomia linearis</i>	COLI2	Narrow-Leaf Mountain Trumpet	Herb	Native	N/A	None None None	12
Polemoniaceae (Phlox Family)	<i>Collomia tinctoria</i>	COTI2	Staining Collomia	Herb	Native	N/A	None None None	12
Polemoniaceae (Phlox Family)	<i>Eriastrum signatum</i>	ERSI2	Spotted Woolly-Star	Herb	Native	N/A	None None None	2
Polemoniaceae (Phlox Family)	<i>Gilia brecciarum</i>	GIBR	Break Gilia	Herb	Native	N/A	None None None	1
Polemoniaceae (Phlox Family)	<i>Gilia capitata</i>	GICA5	Bluehead Gilia	Herb	Native	N/A	None None None	11

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Polemoniaceae (Phlox Family)	<i>Gilia capitata</i> ssp. <i>capitata</i>	GICAC3	Blue Field Gilia	Herb	Native	N/A	None None None	20
Polemoniaceae (Phlox Family)	<i>Ipomopsis aggregata</i>	IPAG	Scarlet Gilia	Herb	Native	N/A	None None None	12
Polemoniaceae (Phlox Family)	<i>Ipomopsis aggregata</i> ssp. <i>aggregata</i>	IPAGA3	Scarlet Gilia	Herb	Native	N/A	None None None	4
Polemoniaceae (Phlox Family)	<i>Ipomopsis congesta</i>	IPCO5	Ball Headed Gilia	Herb	Native	N/A	None None None	2
Polemoniaceae (Phlox Family)	<i>Ipomopsis congesta</i> ssp. <i>montana</i>	IPCOM	Mountain Ball Headed Gilia	Herb	Native	N/A	None None None	1
Polemoniaceae (Phlox Family)	<i>Leptosiphon bicolor</i>	LEBI8	True Babystars	Herb	Native	N/A	None None None	2
Polemoniaceae (Phlox Family)	<i>Leptosiphon bolanderi</i>	LEBO9	Bolander's Linanthus	Herb	Native	N/A	None None None	2
Polemoniaceae (Phlox Family)	<i>Leptosiphon ciliatus</i>	LECI18	Whisker Brush	Herb	Native	N/A	None None None	19
Polemoniaceae (Phlox Family)	<i>Leptosiphon harknessii</i>	LEHA11	Harkness' Flaxflower	Herb	Native	N/A	None None None	18
Polemoniaceae (Phlox Family)	<i>Leptosiphon pachyphyllus</i>	LEPA50	Sierra Linanthus	Herb	Native	N/A	None None None	2

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Polemoniaceae (Phlox Family)	<i>Linanthus pungens</i>	LIPU11	Granite Gilia	Herb	Native	N/A	None None None	11
Polemoniaceae (Phlox Family)	<i>Linanthus pungens</i> ssp. <i>pulchriflorus</i>	2JMLIPUP	Granite Prickly-Phlox	Herb	Native	N/A	None None None	1
Polemoniaceae (Phlox Family)	<i>Microsteris gracilis</i>	MIGR	Slender Phlox	Herb	Native	N/A	None None None	20
Polemoniaceae (Phlox Family)	<i>Navarretia capillaris</i>	NACA6	Miniature Gilia	Herb	Native	N/A	None None None	3
Polemoniaceae (Phlox Family)	<i>Navarretia divaricata</i>	NADI3	Mountain Navarretia	Herb	Native	N/A	None None None	2
Polemoniaceae (Phlox Family)	<i>Navarretia divaricata</i> ssp. <i>divaricata</i>	NADID	Mountain Navarretia	Herb	Native	N/A	None None None	1
Polemoniaceae (Phlox Family)	<i>Navarretia divaricata</i> ssp. <i>vividior</i>	NADIV	Mountain Navarretia	Herb	Native	N/A	None None None	3
Polemoniaceae (Phlox Family)	<i>Navarretia heterandra</i>	NAHE	Tehama Navarretia	Herb	Native	N/A	None None 4.3	5
Polemoniaceae (Phlox Family)	<i>Navarretia intertexta</i> ssp. <i>intertexta</i>	NAINI	Interwoven Navarretia	Herb	Native	N/A	None None None	43
Polemoniaceae (Phlox Family)	<i>Navarretia leptalea</i>	NALE5	Bridges' Pincushionplant	Herb	Native	N/A	None None None	2

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Polemoniaceae (Phlox Family)	<i>Navarretia leptalea</i> ssp. <i>bicolor</i>	NALEB2	Navarretia Leptalea Ssp. Bicolor	Herb	Native	N/A	None None None	2
Polemoniaceae (Phlox Family)	<i>Navarretia leptalea</i> ssp. <i>leptalea</i>	NALEL2	Bridges' Gilia	Herb	Native	N/A	None None None	3
Polemoniaceae (Phlox Family)	<i>Navarretia leucocephala</i>	NALE	White Headed Navarretia	Herb	Native	N/A	None None None	29
Polemoniaceae (Phlox Family)	<i>Navarretia leucocephala</i> ssp. <i>leucocephala</i>	NALEL	White Headed Navarretia	Herb	Native	N/A	None None None	11
Polemoniaceae (Phlox Family)	<i>Navarretia leucocephala</i> ssp. <i>minima</i>	NALEM	Little White Headed Navarretia	Herb	Native	N/A	None None None	65
Polemoniaceae (Phlox Family)	<i>Navarretia propinqua</i>	NAPR3	Great Basin Navarretia	Herb	Native	N/A	None None None	1
Polemoniaceae (Phlox Family)	<i>Navarretia pubescens</i>	NAPU2	Purple Navarretia	Herb	Native	N/A	None None None	1
Polemoniaceae (Phlox Family)	<i>Navarretia sinistra</i>	NASI2	Alva Day's Pincushionplant	Herb	Native	N/A	None None None	1
Polemoniaceae (Phlox Family)	<i>Navarretia subuligera</i>	NASU	Awl-Leaved Navarretia	Herb	Native	N/A	None None 4.3	1
Polemoniaceae (Phlox Family)	<i>Navarretia tagetina</i>	NATA3	Marigold Navarretia	Herb	Native	N/A	None None None	4

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Polemoniaceae (Phlox Family)	<i>Phlox diffusa</i>	PHDI3	Spreading Phlox	Herb	Native	N/A	None None None	64
Polemoniaceae (Phlox Family)	<i>Phlox hoodii</i> var. <i>canescens</i>	PHHOC2	Hood's Phlox	Herb	Native	N/A	None None None	5
Polemoniaceae (Phlox Family)	<i>Phlox speciosa</i>	PHSP	Showy Phlox	Herb	Native	N/A	None None None	2
Polemoniaceae (Phlox Family)	<i>Polemonium occidentale</i>	POOC2	Great Polemonium	Herb	Native	N/A	None None None	1
Polemoniaceae (Phlox Family)	<i>Polemonium pulcherrimum</i> var. <i>shastense</i>	POPUS	Mt. Shasta Sky Pilot	Herb	Native	N/A	None None 1B.2	2
Polygalaceae (Milkwort Family)	<i>Rhinotropis cornuta</i>	RHCO13	Sierra Milkwort	Herb	Native	N/A	None None None	8
Polygalaceae (Milkwort Family)	<i>Rhinotropis cornuta</i> var. <i>cornuta</i>	2JMRHCOC	Sierra Milkwort	Herb	Native	N/A	None None None	23
Polygonaceae (Buckwheat Family)	<i>Aconogonon davisiae</i>	ACDA6	Davis Knotweed	Herb	Native	N/A	None None None	19
Polygonaceae (Buckwheat Family)	<i>Aconogonon newberryi</i>	2JMACNE	Newberry's Smartweed	Herb	Native	N/A	None None None	8
Polygonaceae (Buckwheat Family)	<i>Bistorta bistortoides</i>	BIBI5	Western Bistort	Herb	Native	N/A	None None None	43

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Polygonaceae (Buckwheat Family)	<i>Chorizanthe polygonoides</i>	CHPO4	Knotweed Spineflower	Herb	Native	N/A	None None None	2
Polygonaceae (Buckwheat Family)	<i>Chorizanthe polygonoides</i> var. <i>polygonoides</i>	CHPOP5	Knotweed Spineflower	Herb	Native	N/A	None None None	1
Polygonaceae (Buckwheat Family)	<i>Eriogonum baileyi</i> var. <i>baileyi</i>	ERBAB	Bailey's Wild Buckwheat	Herb	Native	N/A	None None None	5
Polygonaceae (Buckwheat Family)	<i>Eriogonum compositum</i> var. <i>compositum</i>	ERCOC8	Arrow-Leaf Wild Buckwheat	Herb	Native	N/A	None None None	3
Polygonaceae (Buckwheat Family)	<i>Eriogonum douglasii</i> var. <i>meridionale</i>	ERDOM	Southern Wild Buckwheat	Herb	Native	N/A	None None None	9
Polygonaceae (Buckwheat Family)	<i>Eriogonum elatum</i>	EREL5	Tall Buckwheat	Herb	Native	N/A	None None None	2
Polygonaceae (Buckwheat Family)	<i>Eriogonum elatum</i> var. <i>elatum</i>	ERELE	Tall Wild Buckwheat	Herb	Native	N/A	None None None	1
Polygonaceae (Buckwheat Family)	<i>Eriogonum elatum</i> var. <i>villosum</i>	ERELV	Tall Woolly Wild Buckwheat	Herb	Native	N/A	None None None	2
Polygonaceae (Buckwheat Family)	<i>Eriogonum incanum</i>	ERIN9	Frosted Wild Buckwheat	Herb	Native	N/A	None None None	1
Polygonaceae (Buckwheat Family)	<i>Eriogonum lobbii</i>	ERLO2	Lobb's Wild Buckwheat	Herb	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Polygonaceae (Buckwheat Family)	<i>Eriogonum luteolum</i> var. <i>luteolum</i>	ERLUL	Golden-Carpet Wild Buckwheat	Herb	Native	N/A	None None None	1
Polygonaceae (Buckwheat Family)	<i>Eriogonum marifolium</i>	ERMA4	Marum Leaved Buckwheat	Herb	Native	N/A	None None None	20
Polygonaceae (Buckwheat Family)	<i>Eriogonum marifolium</i> var. <i>cupulatum</i>	2JMERMAC	Mccloud Wild Buckwheat	Herb	Native	N/A	None None PPD	12
Polygonaceae (Buckwheat Family)	<i>Eriogonum marifolium</i> var. <i>marifolium</i>	2JMERMAM	Marum-Leaf Wild Buckwheat	Herb	Native	N/A	None None None	41
Polygonaceae (Buckwheat Family)	<i>Eriogonum nudum</i>	ERNU3	Naked Buckwheat	Herb	Native	N/A	None None None	38
Polygonaceae (Buckwheat Family)	<i>Eriogonum nudum</i> var. <i>nudum</i>	ERNUN	Naked Wild Buckwheat	Herb	Native	N/A	None None None	9
Polygonaceae (Buckwheat Family)	<i>Eriogonum nudum</i> var. <i>pubiflorum</i>	ERNUP4	Fremont's Wild Buckwheat	Herb	Native	N/A	None None None	59
Polygonaceae (Buckwheat Family)	<i>Eriogonum ovalifolium</i>	EROV	Oval Leaved Eriogonum	Herb	Native	N/A	None None None	3
Polygonaceae (Buckwheat Family)	<i>Eriogonum ovalifolium</i> var. <i>nivale</i>	EROVN	Sierran Cushion Wild Buckwheat	Herb	Native	N/A	None None None	3
Polygonaceae (Buckwheat Family)	<i>Eriogonum ovalifolium</i> var. <i>purpureum</i>	EROVP2	Purple Cushion Wild Buckwheat	Herb	Native	N/A	None None None	1

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Polygonaceae (Buckwheat Family)	<i>Eriogonum pyrolifolium</i>	ERPYP	Shasta Buckwheat	Herb	Native	N/A	None None None	8
Polygonaceae (Buckwheat Family)	<i>Eriogonum pyrolifolium</i> var. <i>pyrolifolium</i>	ERPYP	Pyrola-Leaved Buckwheat	Herb	Native	N/A	None None 2B.3	14
Polygonaceae (Buckwheat Family)	<i>Eriogonum spergulinum</i> var. <i>reddingianum</i>	ERSPR	Redding's Wild Buckwheat	Herb	Native	N/A	None None None	2
Polygonaceae (Buckwheat Family)	<i>Eriogonum sphaerocephalum</i>	ERSP7	Round Headed Buckwheat	Herb	Native	N/A	None None None	3
Polygonaceae (Buckwheat Family)	<i>Eriogonum sphaerocephalum</i> var. <i>halimioides</i>	ERSPH	Halimium Wild Buckwheat	Herb	Native	N/A	None None None	3
Polygonaceae (Buckwheat Family)	<i>Eriogonum strictum</i> var. <i>anserinum</i>	ERSTA	Goose Lake Wild Buckwheat	Herb	Native	N/A	None None None	3
Polygonaceae (Buckwheat Family)	<i>Eriogonum umbellatum</i>	ERUM	Sulphur Flower	Shrub	Native	N/A	None None None	68
Polygonaceae (Buckwheat Family)	<i>Eriogonum umbellatum</i> var. <i>dumosum</i>	2JMERUMD	American Valley Sulphur Flower	Shrub	Native	N/A	None None None	10
Polygonaceae (Buckwheat Family)	<i>Eriogonum umbellatum</i> var. <i>modocense</i>	ERUMM9	Modoc Sulphur Flower	Shrub	Native	N/A	None None None	34
Polygonaceae (Buckwheat Family)	<i>Eriogonum umbellatum</i> var. <i>nevadense</i>	ERUMN	Nevada Sulphur Flower	Shrub	Native	N/A	None None None	4

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Polygonaceae (Buckwheat Family)	<i>Eriogonum umbellatum</i> var. <i>polyanthum</i>	ERUMP	American River Sulphur Flower	Shrub	Native	N/A	None None None	10
Polygonaceae (Buckwheat Family)	<i>Eriogonum ursinum</i> var. <i>ursinum</i>	ERURU	Bear Valley Wild Buckwheat	Herb	Native	N/A	None None None	28
Polygonaceae (Buckwheat Family)	<i>Eriogonum vimineum</i>	ERV15	Wicker-Stem Wild Buckwheat	Herb	Native	N/A	None None None	14
Polygonaceae (Buckwheat Family)	<i>Oxyria digyna</i>	OXDI3	Alpine Mountain Sorrel	Herb	Native	N/A	None None None	1
Polygonaceae (Buckwheat Family)	<i>Persicaria amphibia</i>	2JMPEAM	Water Smartweed	Herb	Native	N/A	None None None	13
Polygonaceae (Buckwheat Family)	<i>Persicaria hydropiper</i>	PEHY6	Waterpepper	Herb	Naturalized	N/A	None None None	1
Polygonaceae (Buckwheat Family)	<i>Persicaria hydropiperoides</i>	PEHY7	False Waterpepper	Herb	Native	N/A	None None None	1
Polygonaceae (Buckwheat Family)	<i>Persicaria lapathifolia</i>	PELA22	Willow Weed	Herb	Native	N/A	None None None	1
Polygonaceae (Buckwheat Family)	<i>Polygonum aviculare</i>	POAV	Knotweed	Herb	Naturalized	N/A	None None None	6
Polygonaceae (Buckwheat Family)	<i>Polygonum aviculare</i> ssp. <i>aviculare</i>	2JMPOAVA	Prostrate Knotweed	Herb	Naturalized	N/A	None None None	2

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Polygonaceae (Buckwheat Family)	<i>Polygonum aviculare</i> ssp. <i>depressum</i>	2JMPOAVD	Prostrate Knotweed	Herb	Naturalized	N/A	None None None	1
Polygonaceae (Buckwheat Family)	<i>Polygonum bolanderi</i>	POBO3	Bolander's Knotweed	Herb	Native	N/A	None None None	6
Polygonaceae (Buckwheat Family)	<i>Polygonum californicum</i>	POCA7	California Knotweed	Herb	Native	N/A	None None None	4
Polygonaceae (Buckwheat Family)	<i>Polygonum douglasii</i>	PODO4	Douglas' Knotweed	Herb	Native	N/A	None None None	44
Polygonaceae (Buckwheat Family)	<i>Polygonum majus</i>	POMA9	Wiry Knotweed	Herb	Native	N/A	None None None	2
Polygonaceae (Buckwheat Family)	<i>Polygonum minimum</i>	POMI2	Little Mountain Knotweed	Herb	Native	N/A	None None None	3
Polygonaceae (Buckwheat Family)	<i>Polygonum parryi</i>	POPA8	Prickly Knotweed	Herb	Native	N/A	None None None	2
Polygonaceae (Buckwheat Family)	<i>Polygonum polygaloides</i>	POPO4	Polygala Knotweed	Herb	Native	N/A	None None None	35
Polygonaceae (Buckwheat Family)	<i>Polygonum polygaloides</i> ssp. <i>confertiflorum</i>	POPOC	Dense Knotweed	Herb	Native	N/A	None None None	35
Polygonaceae (Buckwheat Family)	<i>Polygonum polygaloides</i> ssp. <i>kelloggii</i>	POPOK	Kellogg's Knotweed	Herb	Native	N/A	None None None	1

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Polygonaceae (Buckwheat Family)	<i>Polygonum shastense</i>	POSH	Shasta Knotweed	Herb	Native	N/A	None None None	27
Polygonaceae (Buckwheat Family)	<i>Polygonum spergulariiforme</i>	POSP	Spurry Knotweed	Herb	Native	N/A	None None None	1
Polygonaceae (Buckwheat Family)	<i>Rheum rhabarbarum</i>	RHRH2	Rhubarb	Herb	Waif	N/A	None None None	1
Polygonaceae (Buckwheat Family)	<i>Rumex acetosella</i>	RUAC3	Sheep Sorrel	Herb	Naturalized	Moderate	None None None	20
Polygonaceae (Buckwheat Family)	<i>Rumex californicus</i>	RUCA8	California Dock	Herb	Native	N/A	None None None	9
Polygonaceae (Buckwheat Family)	<i>Rumex conglomeratus</i>	RUCO2	Green Dock	Herb	Naturalized	N/A	None None None	1
Polygonaceae (Buckwheat Family)	<i>Rumex crispus</i>	RUCR	Curly Dock	Herb	Naturalized	Limited	None None None	36
Polygonaceae (Buckwheat Family)	<i>Rumex fueginus</i>	RUFU3	Golden Dock	Herb	Native	N/A	None None None	1
Polygonaceae (Buckwheat Family)	<i>Rumex obtusifolius</i>	RUOB	Bitter Dock	Herb	Naturalized	N/A	None None None	1
Polygonaceae (Buckwheat Family)	<i>Rumex occidentalis</i>	RUOC3	Western Dock	Herb	Native	N/A	None None None	7

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Polygonaceae (Buckwheat Family)	<i>Rumex paucifolius</i>	RUPA6	Few Leaved Dock	Herb	Native	N/A	None None None	1
Polygonaceae (Buckwheat Family)	<i>Rumex salicifolius</i>	RUSA	Willow Dock	Herb	Native	N/A	None None None	2
Polygonaceae (Buckwheat Family)	<i>Rumex transitorius</i>	RUTR7	Willow Dock	Herb	Native	N/A	None None None	1
Polygonaceae (Buckwheat Family)	<i>Rumex triangulivalvis</i>	RUTR3	Willow Dock	Herb	Native	N/A	None None None	6
Polypodiaceae (Polypody Family)	<i>Polypodium californicum</i>	POCA12	California Polypody	Herb	Native	N/A	None None None	1
Portulacaceae (Purslane Family)	<i>Portulaca oleracea</i>	POOL	Purslane	Herb	Naturalized	N/A	None None None	1
Potamogetonaceae (Pondweed Family)	<i>Potamogeton crispus</i>	POCR3	Crisp-Leaved Pondweed	Herb	Naturalized	Moderate	None None None	1
Potamogetonaceae (Pondweed Family)	<i>Potamogeton epihydrus</i>	POEP2	Nuttall's Ribbon-Leaved Pondweed	Herb	Native	N/A	None None 2B.2	10
Potamogetonaceae (Pondweed Family)	<i>Potamogeton gramineus</i>	POGR8	Grass-Leaved Pondweed	Herb	Native	N/A	None None None	2
Potamogetonaceae (Pondweed Family)	<i>Potamogeton natans</i>	PONA4	Floating-Leaved Pondweed	Herb	Native	N/A	None None None	28

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Potamogetonaceae (Pondweed Family)	<i>Potamogeton richardsonii</i>	PORI2	Richardson's Pondweed	Herb	Native	N/A	None None None	1
Potamogetonaceae (Pondweed Family)	<i>Stuckenia pectinata</i>	STPE15	Fennel-Leaf Pondweed	Herb	Native	N/A	None None None	4
Primulaceae (Primrose Family)	<i>Primula conjugens</i>	2JMPCO	Bonneville Shooting Star	Herb	Native	N/A	None None None	1
Primulaceae (Primrose Family)	<i>Primula hendersonii</i>	2JMPCHE	Mosquito Bill(S)	Herb	Native	N/A	None None None	7
Primulaceae (Primrose Family)	<i>Primula jeffreyi</i>	2JMPCJE	Sierra Shooting Star	Herb	Native	N/A	None None None	3
Primulaceae (Primrose Family)	<i>Primula tetrandra</i>	PRTE6	Alpine Shooting Star	Herb	Native	N/A	None None None	3
Pteridaceae (Brake Family)	<i>Cheilanthes gracillima</i>	CHGR	Lace Lip Fern	Herb	Native	N/A	None None None	4
Pteridaceae (Maidenhair Fern Family)	<i>Adiantum aleuticum</i>	ADAL	Five-Finger Fern	Herb	Native	N/A	None None None	5
Pteridaceae (Maidenhair Fern Family)	<i>Aspidotis densa</i>	ASDE6	Dense Lace Fern	Herb	Native	N/A	None None None	6
Pteridaceae (Maidenhair Fern Family)	<i>Cryptogramma acrostichoides</i>	CRAC3	American Parsley Fern	Herb	Native	N/A	None None None	2

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Pteridaceae (Maidenhair Fern Family)	<i>Cryptogramma cascadensis</i>	CRCA23	Cascade Parsley Fern	Herb	Native	N/A	None None None	6
Pteridaceae (Maidenhair Fern Family)	<i>Myriopteris gracillima</i>	2JMMYGR2	Lace Lip Fern	Herb	Native	N/A	None None None	7
Pteridaceae (Maidenhair Fern Family)	<i>Myriopteris intertexta</i>	2JMMYIN	Coastal Lip Fern	Herb	Native	N/A	None None None	1
Pteridaceae (Maidenhair Fern Family)	<i>Pellaea andromedifolia</i>	PEAN2	Coffee Fern	Herb	Native	N/A	None None None	1
Pteridaceae (Maidenhair Fern Family)	<i>Pellaea brachyptera</i>	PEBR3	Sierra Cliff-Brake	Herb	Native	N/A	None None None	1
Pteridaceae (Maidenhair Fern Family)	<i>Pellaea mucronata</i> var. <i>mucronata</i>	PEMUM3	Bird's Foot Fern	Herb	Native	N/A	None None None	3
Pteridaceae (Maidenhair Fern Family)	<i>Pentagramma triangularis</i>	PETR7	Goldback Fern	Herb	Native	N/A	None None None	7
Ranunculaceae (Buttercup Family)	<i>Aconitum columbianum</i>	ACCO4	Monkshood	Herb	Native	N/A	None None None	16
Ranunculaceae (Buttercup Family)	<i>Aconitum columbianum</i> ssp. <i>columbianum</i>	ACCOC3	Columbian Monkshood	Herb	Native	N/A	None None None	12
Ranunculaceae (Buttercup Family)	<i>Aconitum columbianum</i> ssp. <i>viviparum</i>	ACCOV2	Columbian Monkshood	Herb	Native	N/A	None None None	4

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Ranunculaceae (Buttercup Family)	<i>Actaea rubra</i>	ACRU2	Red Baneberry	Herb	Native	N/A	None None None	7
Ranunculaceae (Buttercup Family)	<i>Anemone deltoidea</i>	ANDE3	Windflower	Herb	Native	N/A	None None None	2
Ranunculaceae (Buttercup Family)	<i>Anemone drummondii</i> var. <i>drummondii</i>	2JMANDRD	Drummond's Anemone	Herb	Native	N/A	None None None	1
Ranunculaceae (Buttercup Family)	<i>Anemone lyallii</i>	ANLY	Little Mountain Thimbleweed	Herb	Native	N/A	None None None	1
Ranunculaceae (Buttercup Family)	<i>Anemone occidentalis</i>	ANOC6	Western Anemone	Herb	Native	N/A	None None None	8
Ranunculaceae (Buttercup Family)	<i>Aquilegia formosa</i>	AQFO	Columbine	Herb	Native	N/A	None None None	24
Ranunculaceae (Buttercup Family)	<i>Caltha leptosepala</i>	CALE4	White Marsh Marigold	Herb	Native	N/A	None None None	20
Ranunculaceae (Buttercup Family)	<i>Clematis lasiantha</i>	CLLA3	Chaparral Clematis	Shrub	Native	N/A	None None None	3
Ranunculaceae (Buttercup Family)	<i>Clematis ligusticifolia</i>	CLLI2	Western Virgin's Bower	Shrub	Native	N/A	None None None	4
Ranunculaceae (Buttercup Family)	<i>Delphinium depauperatum</i>	DEDE2	Dwarf	Herb	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Ranunculaceae (Buttercup Family)	<i>Delphinium nudicaule</i>	DENU	Orange Larkspur	Herb	Native	N/A	None None None	6
Ranunculaceae (Buttercup Family)	<i>Delphinium nuttallianum</i>	DENU2	Dwarf	Herb	Native	N/A	None None None	4
Ranunculaceae (Buttercup Family)	<i>Delphinium patens</i>	DEPA3	Zigzag Larkspur	Herb	Native	N/A	None None None	1
Ranunculaceae (Buttercup Family)	<i>Delphinium patens</i> ssp. <i>patens</i>	DEPAP7	Spreading Larkspur	Herb	Native	N/A	None None None	3
Ranunculaceae (Buttercup Family)	<i>Delphinium variegatum</i>	DEVA	Royal Larkspur	Herb	Native	N/A	None None None	1
Ranunculaceae (Buttercup Family)	<i>Enemion stipitatum</i>	ENST	Siskiyou Rue-Anemone	Herb	Native	N/A	None None None	1
Ranunculaceae (Buttercup Family)	<i>Myosurus minimus</i>	MYMI2	Little Mouse Tail	Herb	Native	N/A	None None None	9
Ranunculaceae (Buttercup Family)	<i>Ranunculus alismifolius</i>	RAAL	Common Water Plantain Buttercup	Herb	Native	N/A	None None None	15
Ranunculaceae (Buttercup Family)	<i>Ranunculus alismifolius</i> var. <i>alismellus</i>	RAALA	Slender Buttercup	Herb	Native	N/A	None None None	9
Ranunculaceae (Buttercup Family)	<i>Ranunculus alismifolius</i> var. <i>alismifolius</i>	RAALA2	Water Plantain Buttercup	Herb	Native	N/A	None None None	2

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Ranunculaceae (Buttercup Family)	<i>Ranunculus aquatilis</i>	RAAQ	White Water Butter Cup	Herb	Native	N/A	None None None	6
Ranunculaceae (Buttercup Family)	<i>Ranunculus aquatilis</i> var. <i>aquatilis</i>	2JMRAAQA	White Water Butter Cup	Herb	Native	N/A	None None None	2
Ranunculaceae (Buttercup Family)	<i>Ranunculus aquatilis</i> var. <i>diffusus</i>	RAAQD	White Water Butter Cup	Herb	Native	N/A	None None None	7
Ranunculaceae (Buttercup Family)	<i>Ranunculus californicus</i> var. <i>californicus</i>	2JMRACA5	Common Buttercup	Herb	Native	N/A	None None None	1
Ranunculaceae (Buttercup Family)	<i>Ranunculus canus</i>	RACA3	Hartweg's Buttercup	Herb	Native	N/A	None None None	1
Ranunculaceae (Buttercup Family)	<i>Ranunculus canus</i> var. <i>canus</i>	2JMRACAC	Hartweg's Buttercup	Herb	Native	N/A	None None None	3
Ranunculaceae (Buttercup Family)	<i>Ranunculus flammula</i>	RAFL2	Spearwort	Herb	Native	N/A	None None None	3
Ranunculaceae (Buttercup Family)	<i>Ranunculus flammula</i> var. <i>ovalis</i>	RAFLO	Greater Creeping Spearwort	Herb	Native	N/A	None None None	13
Ranunculaceae (Buttercup Family)	<i>Ranunculus occidentalis</i>	RAOC	Western Buttercup	Herb	Native	N/A	None None None	24
Ranunculaceae (Buttercup Family)	<i>Ranunculus occidentalis</i> var. <i>dissectus</i>	RAOCD	Western Buttercup	Herb	Native	N/A	None None PPD	24

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Ranunculaceae (Buttercup Family)	<i>Ranunculus orthorhynchus</i>	RAOR3	Bloomer's Buttercup	Herb	Native	N/A	None None None	7
Ranunculaceae (Buttercup Family)	<i>Ranunculus orthorhynchus</i> var. <i>orthorhynchus</i>	RAORO	Straight Beaked Buttercup	Herb	Native	N/A	None None None	4
Ranunculaceae (Buttercup Family)	<i>Ranunculus populago</i>	RAPO	Cusick's Buttercup	Herb	Native	N/A	None None None	1
Ranunculaceae (Buttercup Family)	<i>Ranunculus uncinatus</i>	RAUN	Hooked Fruit Buttercup	Herb	Native	N/A	None None None	6
Ranunculaceae (Buttercup Family)	<i>Thalictrum fendleri</i>	THFE	Fendler's Meadow Rue	Herb	Native	N/A	None None None	9
Ranunculaceae (Buttercup Family)	<i>Thalictrum fendleri</i> var. <i>fendleri</i>	THFEF	Fendler's Meadow Rue	Herb	Native	N/A	None None None	11
Rhamnaceae (Buckthorn Family)	<i>Ceanothus arcuatus</i>	2JMCEAR	Arching Ceanothus	Shrub	Native	N/A	None None None	2
Rhamnaceae (Buckthorn Family)	<i>Ceanothus cordulatus</i>	CECO	Mountain Whitethorn	Shrub	Native	N/A	None None None	75
Rhamnaceae (Buckthorn Family)	<i>Ceanothus cuneatus</i>	CECU	Buck Brush	Shrub	Native	N/A	None None None	63
Rhamnaceae (Buckthorn Family)	<i>Ceanothus cuneatus</i> var. <i>cuneatus</i>	CECUC3	Buckbrush	Shrub	Native	N/A	None None None	20

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Rhamnaceae (Buckthorn Family)	<i>Ceanothus integerrimus</i>	CEIN3	Deer Brush	Shrub	Native	N/A	None None None	66
Rhamnaceae (Buckthorn Family)	<i>Ceanothus integerrimus</i> var. <i>macrothyrsus</i>	CEINM	Deerbrush	Shrub	Native	N/A	None None None	23
Rhamnaceae (Buckthorn Family)	<i>Ceanothus lemmonii</i>	CELE	Lemmon's Ceanothus	Shrub	Native	N/A	None None None	1
Rhamnaceae (Buckthorn Family)	<i>Ceanothus leucodermis</i>	CELE2	Chaparral Whitethorn	Shrub	Native	N/A	None None None	1
Rhamnaceae (Buckthorn Family)	<i>Ceanothus prostratus</i>	CEPR	Mahala Mats	Shrub	Native	N/A	None None None	142
Rhamnaceae (Buckthorn Family)	<i>Ceanothus prostratus</i> var. <i>prostratus</i>	2JMCEPRP	Mahala Mat	Shrub	Native	N/A	None None None	62
Rhamnaceae (Buckthorn Family)	<i>Ceanothus velutinus</i>	CEVE	Snowbrush	Shrub	Native	N/A	None None None	180
Rhamnaceae (Buckthorn Family)	<i>Frangula californica</i>	FRCA12	California Coffee Berry	Shrub	Native	N/A	None None None	41
Rhamnaceae (Buckthorn Family)	<i>Frangula californica</i> ssp. <i>californica</i>	FRCAC5	California Coffeeberry	Shrub	Native	N/A	None None None	3
Rhamnaceae (Buckthorn Family)	<i>Frangula californica</i> ssp. <i>tomentella</i>	FRCAT2	Hoary Coffeeberry	Shrub	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Rhamnaceae (Buckthorn Family)	<i>Frangula purshiana</i>	FRPU7	Cascara	Shrub	Native	N/A	None None None	10
Rhamnaceae (Buckthorn Family)	<i>Frangula purshiana</i> ssp. <i>annonifolia</i>	FRPUA	Cascara Sagrada	Shrub	Native	N/A	None None None	3
Rhamnaceae (Buckthorn Family)	<i>Frangula rubra</i>	FRRU	Sierra Coffee Berry	Shrub	Native	N/A	None None None	3
Rhamnaceae (Buckthorn Family)	<i>Frangula rubra</i> ssp. <i>modocensis</i>	FRRUM	Modoc Buckthorn	Shrub	Native	N/A	None None None	2
Rhamnaceae (Buckthorn Family)	<i>Frangula rubra</i> ssp. <i>obtusissima</i>	FRRUO	Obtuse Buckthorn	Shrub	Native	N/A	None None None	1
Rhamnaceae (Buckthorn Family)	<i>Frangula rubra</i> ssp. <i>rubra</i>	FRRUR	Frangula Rubra Ssp. Rubra	Shrub	Native	N/A	None None None	4
Rhamnaceae (Buckthorn Family)	<i>Rhamnus ilicifolia</i>	RHIL	Hollyleaf Redberry	Shrub	Native	N/A	None None None	8
Rosaceae (Rose Family)	<i>Adenostoma fasciculatum</i>	ADFA	Chamise	Shrub	Native	N/A	None None None	1
Rosaceae (Rose Family)	<i>Amelanchier alnifolia</i>	AMAL2	Service Berry	Shrub	Native	N/A	None None None	28
Rosaceae (Rose Family)	<i>Amelanchier alnifolia</i> var. <i>pumila</i>	AMALP2	Dwarf Service Berry	Shrub	Native	N/A	None None None	4

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Rosaceae (Rose Family)	<i>Amelanchier utahensis</i>	AMUT	Utah Service-Berry	Shrub	Native	N/A	None None None	100
Rosaceae (Rose Family)	<i>Aphanes occidentalis</i>	APOC	Ladie's Mantle	Herb	Native	N/A	None None None	3
Rosaceae (Rose Family)	<i>Cercocarpus betuloides</i>	CEBE3	Birch Leaf Mountain Mahogany	Shrub	Native	N/A	None None None	43
Rosaceae (Rose Family)	<i>Cercocarpus betuloides</i> var. <i>betuloides</i>	CEBEB6	Birch Leaf Mountain Mahogany	Shrub	Native	N/A	None None None	36
Rosaceae (Rose Family)	<i>Cercocarpus betuloides</i> var. <i>macrourus</i>	CEBEM	Few Flowered Mountain Mahogany	Shrub	Native	N/A	None None None	1
Rosaceae (Rose Family)	<i>Cercocarpus ledifolius</i>	CELE3	Curl-Leaf Mountain-Mahogany	Shrub	Native	N/A	None None None	64
Rosaceae (Rose Family)	<i>Cercocarpus ledifolius</i> var. <i>intermontanus</i>	CELEI4	Curl Leaved Mountain Mahogany	Shrub	Native	N/A	None None None	29
Rosaceae (Rose Family)	<i>Cercocarpus ledifolius</i> var. <i>ledifolius</i>	CELEL	Curl Leaf Mountain Mahogany	Shrub	Native	N/A	None None None	5
Rosaceae (Rose Family)	<i>Chamaebatia foliolosa</i>	CHFO	Mountain Misery	Shrub	Native	N/A	None None None	10
Rosaceae (Rose Family)	<i>Chamaebatiaria millefolium</i>	CHMI2	Fern Bush	Shrub	Native	N/A	None None None	20

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Rosaceae (Rose Family)	<i>Comarum palustre</i>	COPA28	Marsh Cinquefoil	Herb	Native	N/A	None None None	5
Rosaceae (Rose Family)	<i>Crataegus castlegarensis</i>	CRCA30	Crataegus Castlegarensis	Shrub	Native	N/A	None None 3	2
Rosaceae (Rose Family)	<i>Crataegus douglasii</i>	CRDO2	Douglas' Hawthorn	Shrub	Native	N/A	None None None	2
Rosaceae (Rose Family)	<i>Drymocallis glandulosa</i>	DRGL7	Sticky Cinquefoil	Herb	Native	N/A	None None None	21
Rosaceae (Rose Family)	<i>Drymocallis glandulosa</i> var. <i>glandulosa</i>	2JMDRGLG	Sticky Cinquefoil	Herb	Native	N/A	None None None	24
Rosaceae (Rose Family)	<i>Drymocallis pseudorupestris</i>	DRPS5	False Rock Loving Cinquefoil	Herb	Native	N/A	None None None	4
Rosaceae (Rose Family)	<i>Fragaria vesca</i>	FRVE	Wood Strawberry	Herb	Native	N/A	None None None	35
Rosaceae (Rose Family)	<i>Fragaria virginiana</i>	FRVI	Mountain Strawberry	Herb	Native	N/A	None None None	65
Rosaceae (Rose Family)	<i>Geum aleppicum</i>	GEAL3	Yellow Avens	Herb	Native	N/A	None None 2B.2	1
Rosaceae (Rose Family)	<i>Geum macrophyllum</i>	GEMA4	Large-Leaved Avens	Herb	Native	N/A	None None None	28

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Rosaceae (Rose Family)	<i>Geum macrophyllum</i> var. <i>perincisum</i>	GEMAP	Largeleaf Avens	Herb	Native	N/A	None None None	5
Rosaceae (Rose Family)	<i>Geum triflorum</i> var. <i>ciliatum</i>	GETRC2	Prairie-Smoke	Herb	Native	N/A	None None None	1
Rosaceae (Rose Family)	<i>Heteromeles arbutifolia</i>	HEAR5	Toyon	Shrub	Native	N/A	None None None	7
Rosaceae (Rose Family)	<i>Holodiscus discolor</i>	HODI	Oceanspray	Shrub	Native	N/A	None None None	32
Rosaceae (Rose Family)	<i>Holodiscus discolor</i> var. <i>glabrescens</i>	HODIG	Rock Spiraea	Shrub	Native	N/A	None None None	23
Rosaceae (Rose Family)	<i>Horkelia californica</i>	HOCA3	California Horkelia	Herb	Native	N/A	None None None	1
Rosaceae (Rose Family)	<i>Horkelia daucifolia</i>	HODA	Carrot Leafed Horkelia	Herb	Native	N/A	None None None	5
Rosaceae (Rose Family)	<i>Horkelia daucifolia</i> var. <i>daucifolia</i>	2JMHODAD	Carrot Leafed Horkelia	Herb	Native	N/A	None None None	1
Rosaceae (Rose Family)	<i>Horkelia fusca</i>	HOFU	Tawny Horkelia	Herb	Native	N/A	None None None	30
Rosaceae (Rose Family)	<i>Horkelia fusca</i> var. <i>brownii</i>	2JMHOFUB	Tawny Horkelia	Herb	Native	N/A	None None None	11

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Rosaceae (Rose Family)	<i>Horkelia fusca</i> var. <i>parviflora</i>	HOFUP5	Tawny Horkelia	Herb	Native	N/A	None None None	1
Rosaceae (Rose Family)	<i>Horkelia fusca</i> var. <i>tenella</i>	2JMHOFUT	Tawny Horkelia	Herb	Native	N/A	None None None	2
Rosaceae (Rose Family)	<i>Horkelia tridentata</i>	HOTR	Three Toothed Horkelia	Herb	Native	N/A	None None None	9
Rosaceae (Rose Family)	<i>Horkelia tridentata</i> var. <i>tridentata</i>	2JMHOTRT	Three Toothed Horkelia	Herb	Native	N/A	None None None	31
Rosaceae (Rose Family)	<i>Luetkea pectinata</i>	LUPE	Partridge Foot	Herb	Native	N/A	None None None	4
Rosaceae (Rose Family)	<i>Malus pumila</i>	MAPU	Apple	Tree	Naturalized	N/A	None None None	1
Rosaceae (Rose Family)	<i>Oemleria cerasiformis</i>	OECE	Oso Berry	Shrub	Native	N/A	None None None	2
Rosaceae (Rose Family)	<i>Physocarpus capitatus</i>	PHCA11	Ninebark	Shrub	Native	N/A	None None None	9
Rosaceae (Rose Family)	<i>Potentilla anserina</i> ssp. <i>anserina</i>	POANA2	Common Silverweed	Herb	Native	N/A	None None None	3
Rosaceae (Rose Family)	<i>Potentilla breweri</i>	POBR6	Brewer's Cinquefoil	Herb	Native	N/A	None None None	2

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Rosaceae (Rose Family)	<i>Potentilla drummondii</i>	PODR	Drummond's Cinquefoil	Herb	Native	N/A	None None None	3
Rosaceae (Rose Family)	<i>Potentilla flabellifolia</i>	POFL3	Fan-Foil	Herb	Native	N/A	None None None	4
Rosaceae (Rose Family)	<i>Potentilla gracilis</i>	POGR9	Slender Cinquefoil	Herb	Native	N/A	None None None	41
Rosaceae (Rose Family)	<i>Potentilla gracilis</i> var. <i>fastigiata</i>	POGRF2	Slender Cinquefoil	Herb	Native	N/A	None None None	10
Rosaceae (Rose Family)	<i>Potentilla gracilis</i> var. <i>flabelliformis</i>	POGRF	Cupform Leaf Cinquefoil	Herb	Native	N/A	None None None	2
Rosaceae (Rose Family)	<i>Potentilla gracilis</i> var. <i>gracilis</i>	POGRG3	Slender Cinquefoil	Herb	Native	N/A	None None None	18
Rosaceae (Rose Family)	<i>Potentilla millefolia</i>	POMI4	Feather Cinquefoil	Herb	Native	N/A	None None None	5
Rosaceae (Rose Family)	<i>Potentilla recta</i>	PORE5	Sulphur Cinquefoil	Herb	Naturalized	Watch List	None None None	3
Rosaceae (Rose Family)	<i>Potentilla rivalis</i>	PORI3	River Cinquefoil	Herb	Native	N/A	None None None	1
Rosaceae (Rose Family)	<i>Poteridium annuum</i>	POAN16	Western Burnet	Herb	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Rosaceae (Rose Family)	<i>Poterium sanguisorba</i>	POSA6	Garden Burnet	Herb	Naturalized	N/A	None None None	4
Rosaceae (Rose Family)	<i>Prunus avium</i>	PRAV	Sweet Cherry	Sapling	Naturalized	N/A	None None None	3
Rosaceae (Rose Family)	<i>Prunus cerasifera</i>	PRCE2	Cherry Plum	Shrub	Naturalized	Limited	None None None	1
Rosaceae (Rose Family)	<i>Prunus emarginata</i>	PREM	Bitter Cherry	Shrub	Native	N/A	None None None	139
Rosaceae (Rose Family)	<i>Prunus subcordata</i>	PRSU2	Pacific Plum	Shrub	Native	N/A	None None None	53
Rosaceae (Rose Family)	<i>Prunus virginiana</i> var. <i>demissa</i>	PRVID	Western Choke Cherry	Shrub	Native	N/A	None None None	65
Rosaceae (Rose Family)	<i>Purshia tridentata</i>	PUTR2	Bitterbrush	Shrub	Native	N/A	None None None	107
Rosaceae (Rose Family)	<i>Purshia tridentata</i> var. <i>tridentata</i>	PUTRT	Antelope Bitterbrush	Shrub	Native	N/A	None None None	99
Rosaceae (Rose Family)	<i>Rosa bridgesii</i>	ROBR3	Sierran Dwarf Rose	Shrub	Native	N/A	None None None	1
Rosaceae (Rose Family)	<i>Rosa californica</i>	ROCA2	California Rose	Shrub	Native	N/A	None None None	3

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Rosaceae (Rose Family)	<i>Rosa gymnocarpa</i>	ROGY	Wood Rose	Shrub	Native	N/A	None None None	21
Rosaceae (Rose Family)	<i>Rosa gymnocarpa</i> var. <i>gymnocarpa</i>	ROGYG	Wood Rose	Shrub	Native	N/A	None None None	17
Rosaceae (Rose Family)	<i>Rosa nutkana</i>	RONU	Nootka Rose	Shrub	Native	N/A	None None None	3
Rosaceae (Rose Family)	<i>Rosa pisocarpa</i>	ROPI2	Cluster Rose	Shrub	Native	N/A	None None None	3
Rosaceae (Rose Family)	<i>Rosa pisocarpa</i> ssp. <i>ahartii</i>	ROPIA	Ahart Rose	Shrub	Native	N/A	None None None	1
Rosaceae (Rose Family)	<i>Rosa pisocarpa</i> ssp. <i>pisocarpa</i>	ROPIP	Pea Rose	Shrub	Native	N/A	None None None	2
Rosaceae (Rose Family)	<i>Rosa rubiginosa</i>	RORU82	Sweet-Brier	Shrub	Naturalized	N/A	None None None	2
Rosaceae (Rose Family)	<i>Rosa woodsii</i>	ROWO	Woods' Rose	Shrub	Native	N/A	None None None	26
Rosaceae (Rose Family)	<i>Rosa woodsii</i> ssp. <i>ultramontana</i>	ROWOU2	Interior Rose	Shrub	Native	N/A	None None None	25
Rosaceae (Rose Family)	<i>Rubus armeniacus</i>	RUAR9	Himalayan Blackberry	Shrub	Naturalized	High	None None None	36

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Rosaceae (Rose Family)	<i>Rubus laciniatus</i>	RULA	Cutleaf Blackberry	Shrub	Naturalized	N/A	None None None	11
Rosaceae (Rose Family)	<i>Rubus leucodermis</i>	RULE	Whitebark Raspberry	Shrub	Native	N/A	None None None	7
Rosaceae (Rose Family)	<i>Rubus parviflorus</i>	RUPA	Thimbleberry	Shrub	Native	N/A	None None None	49
Rosaceae (Rose Family)	<i>Rubus pensilvanicus</i>	RUPE3	Pennsylvania Blackberry	Shrub	Naturalized	N/A	None None None	1
Rosaceae (Rose Family)	<i>Rubus ursinus</i>	RUUR	California Blackberry	Shrub	Native	N/A	None None None	12
Rosaceae (Rose Family)	<i>Sibbaldia procumbens</i>	SIPR	Sibbaldia	Herb	Native	N/A	None None None	11
Rosaceae (Rose Family)	<i>Sorbus californica</i>	SOCA8	California Mountain Ash	Shrub	Native	N/A	None None None	3
Rosaceae (Rose Family)	<i>Sorbus scopulina</i>	SOSC2	Cascade Mountain Ash	Shrub	Native	N/A	None None None	9
Rosaceae (Rose Family)	<i>Spiraea douglasii</i>	SPDO	Douglas Spiraea	Shrub	Native	N/A	None None None	95
Rosaceae (Rose Family)	<i>Spiraea splendens</i>	SPSP2	Rose Meadowsweet	Shrub	Native	N/A	None None None	6

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Rubiaceae (Madder Family)	<i>Galium aparine</i>	GAAP2	Goose Grass	Herb	Native	N/A	None None None	67
Rubiaceae (Madder Family)	<i>Galium bifolium</i>	GABI	Low Mountain Bedstraw	Herb	Native	N/A	None None None	5
Rubiaceae (Madder Family)	<i>Galium bolanderi</i>	GABO	Bolander's Bedstraw	Herb	Native	N/A	None None None	37
Rubiaceae (Madder Family)	<i>Galium boreale</i>	GABO2	Northern Bedstraw	Herb	Native	N/A	None None None	2
Rubiaceae (Madder Family)	<i>Galium grayanum</i>	GAGR2	Gray's Bedstraw	Herb	Native	N/A	None None None	1
Rubiaceae (Madder Family)	<i>Galium grayanum</i> var. <i>grayanum</i>	GAGRG	Gray's Bedstraw	Herb	Native	N/A	None None None	2
Rubiaceae (Madder Family)	<i>Galium mexicanum</i> ssp. <i>asperulum</i>	GAMEA2	Mexican Bedstraw	Herb	Native	N/A	None None None	2
Rubiaceae (Madder Family)	<i>Galium parisiense</i>	GAPA5	Wall Bedstraw	Herb	Naturalized	N/A	None None None	7
Rubiaceae (Madder Family)	<i>Galium porrigens</i>	GAPO	Climbing Bedstraw	Herb	Native	N/A	None None None	21
Rubiaceae (Madder Family)	<i>Galium porrigens</i> var. <i>tenue</i>	GAPOT	Graceful Bedstraw	Herb	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Rubiaceae (Madder Family)	<i>Galium trifidum</i>	GATR2	Three Petaled Bedstraw	Herb	Native	N/A	None None None	10
Rubiaceae (Madder Family)	<i>Galium trifidum</i> ssp. <i>columbianum</i>	GATRC	Threepetal Bedstraw	Herb	Native	N/A	None None None	15
Rubiaceae (Madder Family)	<i>Galium trifidum</i> ssp. <i>subbiflorum</i>	GATRS2	Threepetal Bedstraw	Herb	Native	N/A	None None None	4
Rubiaceae (Madder Family)	<i>Galium triflorum</i>	GATR3	Sweet-Scented Bedstraw	Herb	Native	N/A	None None None	46
Rubiaceae (Madder Family)	<i>Kelloggia galioides</i>	KEGA	Kelloggia	Herb	Native	N/A	None None None	122
Ruscaceae (Butcher's-Broom Family)	<i>Maianthemum racemosum</i>	MARA7	Feathery False Lily Of The Valley	Herb	Native	N/A	None None None	30
Ruscaceae (Butcher's-Broom Family)	<i>Maianthemum stellatum</i>	MAST4	Starry False Lily Of The Valley	Herb	Native	N/A	None None None	70
Rutaceae (Rue Family)	<i>Ptelea crenulata</i>	PTCR3	Hop Tree	Shrub	Native	N/A	None None None	3
Salicaceae (Willow Family)	<i>Populus fremontii</i>	POFR2	Fremont's Cottonwood	Tree	Native	N/A	None None None	1
Salicaceae (Willow Family)	<i>Populus tremuloides</i>	POTR5	Quaking Aspen	Sapling	Native	N/A	None None None	135

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Salicaceae (Willow Family)	<i>Populus trichocarpa</i>	POTR15	Black Cottonwood	Tree	Native	N/A	None None None	65
Salicaceae (Willow Family)	<i>Salix boothii</i>	SABO2	Booth's Willow	Shrub	Native	N/A	None None None	4
Salicaceae (Willow Family)	<i>Salix eastwoodiae</i>	SAEA	Sierra Willow	Shrub	Native	N/A	None None None	3
Salicaceae (Willow Family)	<i>Salix exigua</i>	SAEX	Narrowleaf Willow	Shrub	Native	N/A	None None None	21
Salicaceae (Willow Family)	<i>Salix exigua</i> var. <i>exigua</i>	2JMSAEXE	Narrow-Leaved Willow	Shrub	Native	N/A	None None None	3
Salicaceae (Willow Family)	<i>Salix geyeriana</i>	SAGE2	Geyer's Willow	Shrub	Native	N/A	None None None	2
Salicaceae (Willow Family)	<i>Salix laevigata</i>	SALA3	Red Willow	Seedling	Native	N/A	None None None	32
Salicaceae (Willow Family)	<i>Salix lasiandra</i>	SALA5	Pacific Willow	Tree	Native	N/A	None None None	33
Salicaceae (Willow Family)	<i>Salix lasiandra</i> var. <i>lasiandra</i>	2JMSALAL	Pacific Willow	Sapling	Native	N/A	None None None	57
Salicaceae (Willow Family)	<i>Salix lasiolepis</i>	SALA6	Arroyo Willow	Shrub	Native	N/A	None None None	60

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Salicaceae (Willow Family)	<i>Salix lemmonii</i>	SALE	Lemmon's Willow	Shrub	Native	N/A	None None None	38
Salicaceae (Willow Family)	<i>Salix ligulifolia</i>	SALI	Strap-Leafed Willow	Shrub	Native	N/A	None None None	1
Salicaceae (Willow Family)	<i>Salix scouleriana</i>	SASC	Scouler's Willow	Shrub	Native	N/A	None None None	31
Sapindaceae (Soapberry Family)	<i>Acer circinatum</i>	ACCI	Vine Maple	Shrub	Native	N/A	None None None	23
Sapindaceae (Soapberry Family)	<i>Acer glabrum</i>	ACGL	Mountain Maple	Shrub	Native	N/A	None None None	6
Sapindaceae (Soapberry Family)	<i>Acer glabrum</i> var. <i>glabrum</i>	ACGLG2	Rocky Mountain Maple	Shrub	Native	N/A	None None None	4
Sapindaceae (Soapberry Family)	<i>Acer macrophyllum</i>	ACMA3	Big-Leaf Maple	Sapling	Native	N/A	None None None	51
Sapindaceae (Soapberry Family)	<i>Aesculus californica</i>	AECA	California Buckeye	Seedling	Native	N/A	None None None	15
Sarcobataceae (Greasewood Family)	<i>Sarcobatus vermiculatus</i>	SAVE4	Greasewood	Shrub	Native	N/A	None None None	4
Sarraceniaceae (Pitcher-Plant Family)	<i>Darlingtonia californica</i>	DACA5	California Pitcherplant	Herb	Native	N/A	None None 4.2	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Saxifragaceae (Saxifrage Family)	<i>Boykinia major</i>	BOMA3	Large Boykinia	Herb	Native	N/A	None None None	1
Saxifragaceae (Saxifrage Family)	<i>Boykinia occidentalis</i>	BOOC2	Western Boykinia	Herb	Native	N/A	None None None	1
Saxifragaceae (Saxifrage Family)	<i>Darmera peltata</i>	DAPE	Umbrella Plant	Herb	Native	N/A	None None None	14
Saxifragaceae (Saxifrage Family)	<i>Heuchera cylindrica</i>	HECY2	Roundleaf Alumroot	Herb	Native	N/A	None None None	3
Saxifragaceae (Saxifrage Family)	<i>Heuchera micrantha</i>	HEMI7	Alum Root	Herb	Native	N/A	None None None	1
Saxifragaceae (Saxifrage Family)	<i>Lithophragma campanulatum</i>	LICA21	Siskiyou Mountain Woodland Star	Herb	Native	N/A	None None None	1
Saxifragaceae (Saxifrage Family)	<i>Lithophragma glabrum</i>	LIGL2	Bulbed Woodland Star	Herb	Native	N/A	None None None	1
Saxifragaceae (Saxifrage Family)	<i>Lithophragma parviflorum</i>	LIPA5	Pink Woodland Star	Herb	Native	N/A	None None None	4
Saxifragaceae (Saxifrage Family)	<i>Micranthes aprica</i>	MIAP	Sierra Saxifrage	Herb	Native	N/A	None None None	1
Saxifragaceae (Saxifrage Family)	<i>Micranthes fragosa</i>	MIFR	Clayton's Saxifrage	Herb	Native	N/A	None None None	1

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Saxifragaceae (Saxifrage Family)	<i>Micranthes integrifolia</i>	MIIN13	Smooth Leaf Saxifrage	Herb	Native	N/A	None None None	2
Saxifragaceae (Saxifrage Family)	<i>Micranthes odontoloma</i>	MIOD2	Brook Saxifrage	Herb	Native	N/A	None None None	2
Saxifragaceae (Saxifrage Family)	<i>Micranthes oregana</i>	MIOR2	Bog Saxifrage	Herb	Native	N/A	None None None	25
Saxifragaceae (Saxifrage Family)	<i>Micranthes tolmiei</i>	MITO4	Tolmie's Saxifrage	Herb	Native	N/A	None None None	2
Saxifragaceae (Saxifrage Family)	<i>Ozomelis trifida</i>	OZTR	Three Parted Miterwort	Herb	Native	N/A	None None None	1
Scrophulariaceae (Figwort Family)	<i>Scrophularia californica</i>	SCCA2	California Figwort	Herb	Native	N/A	None None None	1
Scrophulariaceae (Figwort Family)	<i>Verbascum blattaria</i>	VEBL	Moth Mullein	Herb	Naturalized	N/A	None None None	5
Scrophulariaceae (Figwort Family)	<i>Verbascum thapsus</i>	VETH	Woolly Mullein	Herb	Naturalized	Limited	None None None	46
Selaginellaceae (Spike-Moss Family)	<i>Selaginella wallacei</i>	SEWA	Wallace's Spike Moss	Herb	Native	N/A	None None None	1
Smilacaceae (Catbrier Family)	<i>Smilax californica</i>	SMCA2	Greenbriar	Shrub	Native	N/A	None None None	19

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Smilacaceae (Catbrier Family)	<i>Smilax jamesii</i>	SMJA	English Peak Greenbrier	Herb	Native	N/A	None None 4.2	2
Solanaceae (Potato Family)	<i>Chamaesaracha nana</i>	CHNA3	Dwarf Chamaesaracha	Herb	Native	N/A	None None None	30
Solanaceae (Potato Family)	<i>Nicotiana attenuata</i>	NIAT	Coyote Tobacco	Herb	Native	N/A	None None None	8
Solanaceae (Potato Family)	<i>Solanum americanum</i>	SOAM	White Nightshade	Herb	Native	N/A	None None None	3
Solanaceae (Potato Family)	<i>Solanum dulcamara</i>	SODU	Bittersweet	Shrub	Naturalized	N/A	None None None	2
Solanaceae (Potato Family)	<i>Solanum parishii</i>	SOPA	Parish's Purple Nightshade	Shrub	Native	N/A	None None None	5
Solanaceae (Potato Family)	<i>Solanum physalifolium</i> var. <i>nitidibaccatum</i>	SOPHN	Nightshade	Herb	Naturalized	N/A	None None None	4
Solanaceae (Potato Family)	<i>Solanum triflorum</i>	SOTR	Three Flowered Nightshade	Herb	Naturalized	N/A	None None None	1
Taxaceae (Yew Family)	<i>Taxus brevifolia</i>	TABR2	Pacific Yew	Sapling	Native	N/A	None None None	8
Taxaceae (Yew Family)	<i>Torreya californica</i>	TOCA	California-Nutmeg	Sapling	Native	N/A	None None None	20

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Themidaceae (Brodiaea Family)	<i>Brodiaea coronaria</i>	BRCO3	Garland Brodiaea	Herb	Native	N/A	None None None	24
Themidaceae (Brodiaea Family)	<i>Brodiaea elegans</i> ssp. <i>elegans</i>	BRELE	Harvest Brodiaea	Herb	Native	N/A	None None None	4
Themidaceae (Brodiaea Family)	<i>Brodiaea sierrae</i>	2JMBSI	Sierra Foothills Brodiaea	Herb	Native	N/A	None None 4.3	1
Themidaceae (Brodiaea Family)	<i>Dichelostemma congestum</i>	DICO19	Fork-Toothed Ookow	Herb	Native	N/A	None None None	42
Themidaceae (Brodiaea Family)	<i>Dichelostemma multiflorum</i>	DIMU5	Wild Hyacinth	Herb	Native	N/A	None None None	25
Themidaceae (Brodiaea Family)	<i>Dichelostemma volubile</i>	DIVO	Twining Brodiaea	Herb	Native	N/A	None None None	4
Themidaceae (Brodiaea Family)	<i>Dipterostemon capitatus</i>	2JMDICA	Blue Dicks	Herb	Native	N/A	None None None	8
Themidaceae (Brodiaea Family)	<i>Dipterostemon capitatus</i> ssp. <i>capitatus</i>	2JMDICAC	Blue Dicks	Herb	Native	N/A	None None None	2
Themidaceae (Brodiaea Family)	<i>Triteleia hyacinthina</i>	TRHY3	White Brodiaea	Herb	Native	N/A	None None None	59
Themidaceae (Brodiaea Family)	<i>Triteleia ixioides</i>	TRIX	Pretty Face	Herb	Native	N/A	None None None	3

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Themidaceae (Brodiaea Family)	<i>Triteleia ixioides</i> ssp. <i>anilina</i>	TRIXA	Pretty Face	Herb	Native	N/A	None None None	1
Themidaceae (Brodiaea Family)	<i>Triteleia montana</i>	TRMO11	Mountain Triteleia	Herb	Native	N/A	None None None	1
Tofieldiaceae (Nasturtium Family)	<i>Triantha occidentalis</i> ssp. <i>occidentalis</i>	TROCO2	Western False Asphodel	Herb	Native	N/A	None None None	13
Typhaceae (Cat-Tail Family)	<i>Sparganium angustifolium</i>	SPAN2	Narrow-Leaved Bur- Reed	Herb	Native	N/A	None None None	2
Typhaceae (Cat-Tail Family)	<i>Sparganium emersum</i>	SPEM2	Emersed Bur-Reed	Herb	Native	N/A	None None None	6
Typhaceae (Cat-Tail Family)	<i>Sparganium natans</i>	SPNA	Small Bur-Reed	Herb	Native	N/A	None None 4.3	4
Typhaceae (Cat-Tail Family)	<i>Typha latifolia</i>	TYLA	Broad-Leaved Cattail	Herb	Native	N/A	None None None	25
Urticaceae (Nettle Family)	<i>Urtica dioica</i>	URDI	Stinging Nettle	Herb	Native	N/A	None None None	9
Urticaceae (Nettle Family)	<i>Urtica dioica</i> ssp. <i>holosericea</i>	URDIH	Hoary Nettle	Herb	Native	N/A	None None None	8
Valerianaceae (Valerian Family)	<i>Plectritis ciliosa</i>	PLCI	Long Spurred Plectritis	Herb	Native	N/A	None None None	5

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Valerianaceae (Valerian Family)	<i>Plectritis congesta</i>	PLCO4	Sea Blush	Herb	Native	N/A	None None None	2
Valerianaceae (Valerian Family)	<i>Plectritis macrocera</i>	PLMA4	Plectritis	Herb	Native	N/A	None None None	5
Valerianaceae (Valerian Family)	<i>Valerianella locusta</i>	VALO	Corn Salad	Herb	Naturalized	N/A	None None None	3
Verbenaceae (Verbena Family)	<i>Verbena lasiostachys</i>	VELA	Western Vervain	Herb	Native	N/A	None None None	1
Viburnaceae (Muskroot Family)	<i>Sambucus mexicana</i>	SAME5	Blue Elderberry	Shrub	Native	N/A	None None None	26
Viburnaceae (Muskroot Family)	<i>Sambucus racemosa</i>	SARA2	Red Elderberry	Shrub	Native	N/A	None None None	4
Violaceae (Violet Family)	<i>Viola adunca</i> ssp. <i>adunca</i>	2JMVIADA	Western Dog Violet	Herb	Native	N/A	None None None	6
Violaceae (Violet Family)	<i>Viola bakeri</i>	VIBA2	Baker's Violet	Herb	Native	N/A	None None None	1
Violaceae (Violet Family)	<i>Viola douglasii</i>	VIDO	Douglas' Violet	Herb	Native	N/A	None None None	7
Violaceae (Violet Family)	<i>Viola glabella</i>	VIGL	Stream Violet	Herb	Native	N/A	None None None	30

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Violaceae (Violet Family)	<i>Viola lobata</i>	VILO2	Pine Violet	Herb	Native	N/A	None None None	9
Violaceae (Violet Family)	<i>Viola lobata ssp. integrifolia</i>	VILOI2	Delta Leafed Forest Violet	Herb	Native	N/A	None None None	2
Violaceae (Violet Family)	<i>Viola lobata ssp. lobata</i>	VILOL2	Moose Horn Violet	Herb	Native	N/A	None None None	27
Violaceae (Violet Family)	<i>Viola macloskeyi</i>	VIMA2	Macloskey's Violet	Herb	Native	N/A	None None None	8
Violaceae (Violet Family)	<i>Viola nephrophylla</i>	VINE	Leconte Violet	Herb	Native	N/A	None None None	1
Violaceae (Violet Family)	<i>Viola praemorsa</i>	VIPR3	Astoria Violet	Herb	Native	N/A	None None None	5
Violaceae (Violet Family)	<i>Viola praemorsa ssp. praemorsa</i>	VIPRP	Astoria Violet	Herb	Native	N/A	None None None	4
Violaceae (Violet Family)	<i>Viola purpurea</i>	VIPU4	Goosefoot Violet	Herb	Native	N/A	None None None	44
Violaceae (Violet Family)	<i>Viola purpurea ssp. integrifolia</i>	VIPUI	Smooth Leaved Violet	Herb	Native	N/A	None None None	30
Violaceae (Violet Family)	<i>Viola purpurea ssp. purpurea</i>	VIPUP3	Mountain Violet	Herb	Native	N/A	None None None	5

Family	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Violaceae (Violet Family)	<i>Viola purpurea</i> ssp. <i>quercetorum</i>	VIPUQ	Goosefoot Yellow Violet	Herb	Native	N/A	None None None	2
Violaceae (Violet Family)	<i>Viola sheltonii</i>	VISH	Shelton's Violet	Herb	Native	N/A	None None None	6
Viscaceae (Christmas Mistletoe Family)	<i>Phoradendron leucarpum</i> ssp. <i>macrophyllum</i>	2JMPHLEM	Big Leaf Mistletoe	Herb	Native	N/A	None None None	1
Vitaceae (Grape Family)	<i>Vitis californica</i>	VICA5	California Wild Grape	Shrub	Native	N/A	None None None	9

Note: Plant names and codes correspond to Jepson eFlora (2026) and USDA NRCS PLANTS database (2026).

N/A indicates not applicable. No Cal-IPC rank.

Appendix E, Table 2. List of Nonvascular Classes Observed within Sampled Plots.

Life Form	Scientific Name	Code Species	Common Name	Stratum	Origin	Cal-IPC Rank	Federal, State, CRPR	Occurrence Count
Algae	Unknown	2ALGA	Unknown	Nonvascular	Presumed Native	N/A	None None None	17
Lichen	Unknown	2LICHN	Unknown	Nonvascular	Presumed Native	N/A	None None None	121
Liverwort	Unknown	2LW	Unknown	Nonvascular	Presumed Native	N/A	None None None	8
Moss	Unknown	2MOSS	Unknown	Nonvascular	Presumed Native	N/A	Unknown Unknown Unknown	844
Biotic Crust	Biotic Crust	Biotic Crust	Unknown	Nonvascular	Presumed Native	N/A	None None None	1

Note: N/A denotes not applicable.

CRPR Codes:

1A: Plants presumed extirpated in California and either rare or extinct elsewhere; **1B:** Plants rare, threatened or endangered in CA and elsewhere; **2B:** Plants rare, threatened or endangered in California but more common elsewhere; **3:** = More information is needed about plant; **4:** = Plants of limited distribution, a watch list,

Threat Codes: **0.1:** Seriously threatened in CA; **0.2:** Fairly threatened in CA; **0.3:** Not very threatened in CA

California Invasive Plant Council Rating:

High: Severe ecological impacts on physical processes, plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal and establishment. Most are widely distributed ecologically.

Moderate: substantial and apparent-but generally not severe-ecological impacts on physical processes, plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal, though establishment is generally dependent upon ecological disturbance. Ecological amplitude and distribution may range from limited to widespread.

Limited: invasive but their ecological impacts are minor on a statewide level or there was not enough information to justify a higher score. Their reproductive biology and other attributes result in low to moderate rates of invasiveness. Ecological amplitude and distribution are generally limited, but these species may be locally persistent and problematic.

Alert: Species with High or Moderate impacts that have limited distribution in California, but may have the potential to spread much further.

Watch: These species have been assessed as posing a high risk of becoming invasive in the future in California