

Vegetation Classification for Orange County

Final Report



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Prepared for:

Nature Reserve of Orange County

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Introduction

The ultimate goal of this project is to create an updated fine-scale vegetation map for about 58,000 acres of Orange County, consisting of the 37,000-acre Orange County Central and Coastal Subregions Natural Community Conservation Plan (NCCCP)/Habitat Conservation Plan (HCP) Habitat Reserve System; approximately 9,500 acres of associated NCCP/HCP Special Linkages, Existing Use Areas, and Non-Reserve Open Space; and approximately 11,000 acres of adjoining conserved open space (study area). To update vegetation mapping, the Natural Reserve of Orange County (NROC) proposes to use Manual of California Vegetation (MCV) methods (2009), which will be implemented in two phases:

Phase 1 – Development of a vegetation classification system for the Central and Coastal Subregions of Orange County that is consistent with the MCV.

Phase 2 – Application of the vegetation classification system to create a vegetation map through photo-interpretation of available aerial imagery and ground reconnaissance.

The MCV methods were developed by the California Department of Fish and Game (CDFG) Vegetation Classification and Mapping Program in collaboration with the California Native Plant Society (CNPS). This approach relies on the collection of quantifiable environmental data to identify and classify biological associations that repeat across the landscape. For areas where documentation is lacking to effectively define all of the vegetation patterns found in California, CDFG and CNPS developed the Vegetation Rapid Assessment Protocol. This protocol guides data collection and analysis to refine vegetation classifications that are consistent with CDFG and MCV standards. Based on an earlier classification by Gray and Bramlet (1992), Orange County is expected to have vegetation types not yet described in the MCV. Using the MCV approach, Rapid Assessment (RA) data was collected throughout the study area and analyzed to characterize these new vegetation types or show concurrence with existing MCV types.

Methods

This project is currently at the end of Phase 1, which consisted of three tasks:

1. Define the sampling strategy.
2. Collect field data in the form of Rapid Assessments.
3. Analyze data, resulting in a vegetation classification system (VCS).

Task 1 was completed in February 2012 with collaboration from NROC, CDFG, and the U.S. Fish and Wildlife Service (USFWS). Task 2 was initiated in March and completed in October 2012. Ed Kentner (AECOM) led the data collection effort with the assistance of Kyle Harper and Jonathan Dunn (AECOM) and Mark Bibbo (Garcia and Associates). Property access and permitting were coordinated by Milan Mitrovich (NROC).

Sampling Strategy

Through discussions with CDFG staff (Todd Keeler-Wolf, Diana Hickson), AECOM achieved concurrence that approximately 330 RAs from the study area would be sufficient to prepare the VCS. This number was determined through consideration of the size of the study area and the number of vegetation types described by Gray and Bramlet (1992), and the expectation that existing datasets collected for similar efforts in San Diego and Riverside Counties would be suitable for inclusion in this current classification effort.

A set of draft 330 sampling points were distributed across the Central and Coastal, and Southern Reserve areas of Orange County using a stratified random sampling method. Sampling locations within the Southern Reserves were included to ensure the inclusion of vegetation types that are unmapped within the Central and Coastal Reserves

but potentially present therein, provide greater geographical continuity for the inclusion of San Diego and Riverside County data, and yield a VCS of greater utility for the region. As a first step, AECOM created new habitat categories based on the existing Habitat/Land Cover Classification System for Orange County, as derived from Gray and Bramlet (1992). Some existing categories were combined and categorized at higher levels, and others were left at the most descriptive level. For example, black sage scrub, white sage scrub, and buckwheat scrub (among others) were combined into the habitat type "Scrub." However, purple sage scrub and southern cactus scrub were left as individual habitat types. The decision about which habitat types to combine and which habitat types to leave as a separate type was based on habitat types that are unique to Orange County versus habitat types for which data already exists in San Diego and/or Riverside Counties. Habitats unique to Orange County were left as individual types to ensure that they were represented in the sampling. Table 1 details the final categories that AECOM used for stratifying the 330 sampling points.

In addition to habitat type, acreage of each habitat type was considered when stratifying the 330 sampling points. Habitat types with greater acreages received a proportionally larger number of sampling points. Additionally, since the Central and Coastal Reserve lands are the primary study area, preference was given to these lands when a habitat type occurred in both the Central and Coastal Reserves and Southern Reserve. After the number of sampling points was stratified based on habitat type, acreage, and reserve, geographic information systems (GIS) software was used to randomly place the sampling points.

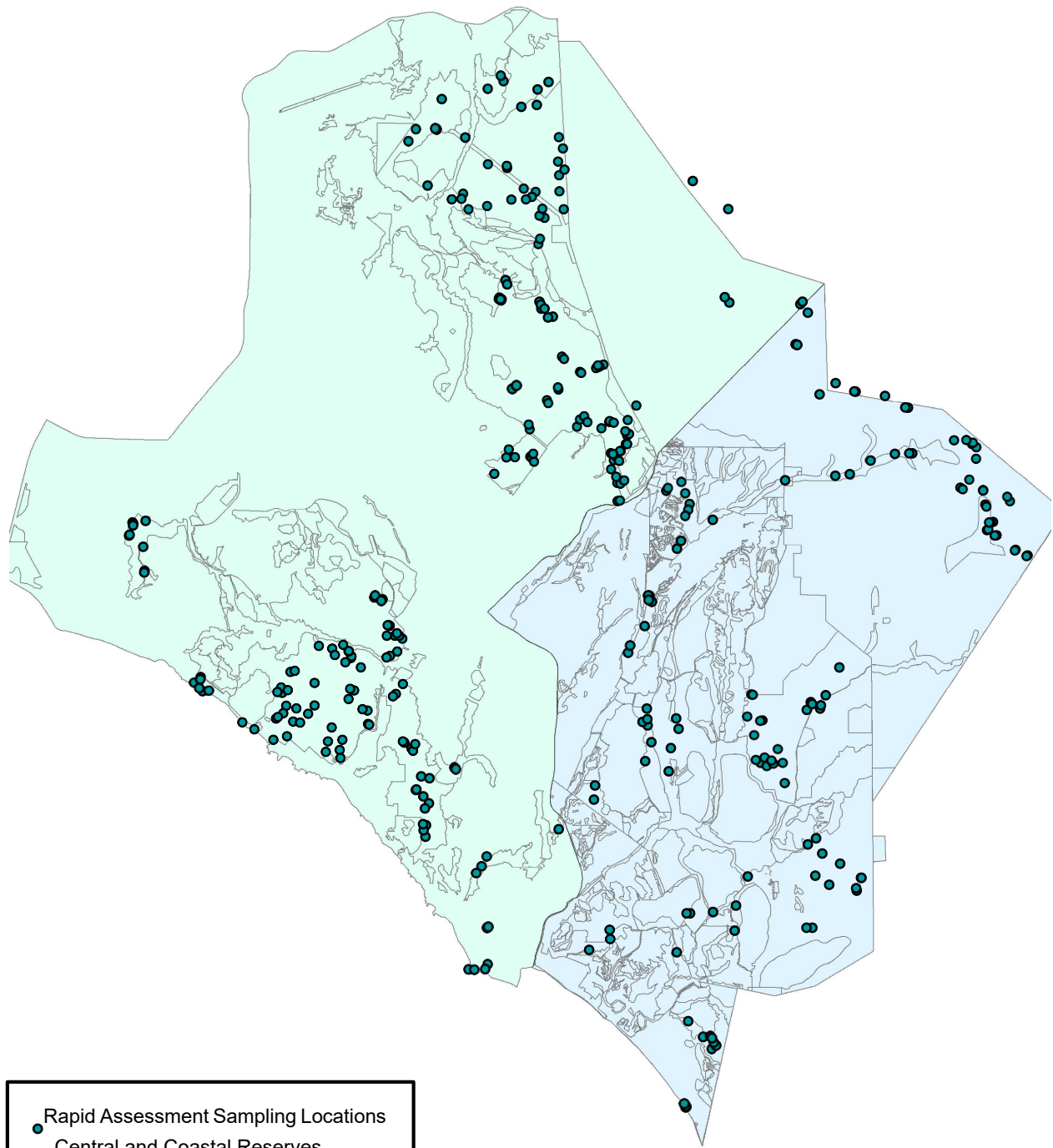
This sampling system was designed to capture adequate vegetation data, in the form of Rapid Assessments, to prepare a vegetation classification for the study area. The stratification method is purposefully objective to ensure that known vegetation types are sampled; however, it would be entirely appropriate to reallocate a portion of the proposed sampling locations or identify additional sampling based on the knowledge obtained from land managers and other local experts.

On February 2, 2012, a meeting was held at the San Diego offices of CDFG to review the sampling strategy and provide comments regarding the draft sampling locations. In attendance were Kristine Preston and Milan Mitrovich (NROC), Will Miller (USFWS), Cara Allen (CDFG), and Jonathan Dunn (AECOM). The overall strategy was accepted as sound, and several suggestions were made for the reallocation of a portion of the sampling locations. Based on these suggestions, adjustments were made to the draft sampling locations. These adjustments included the allocation of addition points within the unchannelized portions of the Santa Ana River, additional points within grassland habitats, additional points in Upper Newport Bay, additional points in the coastal region, representation of the limited natural resource areas of the northern part of the county, and several other minor adjustments. Approximately 150 "alternate" sampling locations were also selected using the same stratified random sampling method described above. These alternate locations were used in cases where the original sampling point could not be accessed or the habitat type had changed and that location no longer represented the habitat type desired. Therefore, a total of 480 primary and alternate sampling locations were identified.

As a practical matter, field ecologists who collect the RA data assessed conditions within the vicinity of a proposed sampling location and had discretion to adjust the sampling location or collect multiple RAs within the vicinity. Therefore, throughout the data collection stage, sampling was tracked to ensure that all ecological types were represented. Table 1 details the number of sampling units in each habitat type and in each reserve.

Rapid Assessment Data Collection

Field data collection was conducted between March 6 and October 10, 2012. A total of 346 RAs were collected throughout the study area (Figure 1). Of this total, 216 RAs were collected in the Central and Coastal Reserves, 127 RAs were collected in the Southern Reserves, and three RAs were collected in the Northern Reserves.



Rapid Assessment Sampling Locations
 Central and Coastal Reserves
 Southern Reserves

5 2.5 0 5 Miles

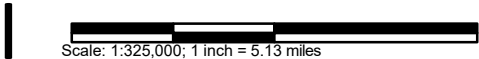


Figure 1

Rapid Assessment Sampling Locations

NROC Vegetation Classification

Table 1. Sampling Points Stratified by Habitat Type (1992) and Reserve Area

Habitat Type	Central & Coastal Reserve	Southern Reserve	Northern Reserve	Total
Grassland	37	12	2	51
Generalized Annual Grassland	33	7	2	42
Deergrass		3		3
Needlegrass	3	2		5
Wild Rye	1			1
Scrub	79	25	3	107
Generalized Scrub	61	22	1	84
Box Springs Goldenbush-Grassland	3			3
Chenopod Scrub or Quail Brush	2			2
Purple Sage	2			2
Southern Cactus	5	2	2	9
White Sage	2			2
Floodplain Sage Scrub	2	1		3
Maritime Succulent Scrub	1			1
Riversidian Coastal Sage Scrub	1			1
Chaparral	57	49	3	109
Generalized Chaparral	43	47	3	93
Bigpod Ceanothus	2			2
Nolina	4			4
Snowball Ceanothus	4	2		6
Maritime Chaparral	4			4
Woodland	8	1	4	13
California Walnut Woodland			1	1
Coast Live Oak Woodland	8	1	3	12
Forest	7	4		11
Bigcone Spruce-Canyon Live Oak Forest	1	2		3
Canyon Live Oak Forest	1	1		2
Coast Live Oak Forest	1	1		2
Interior Live Oak Forest	1			1
Knobcone Pine Forest	1			1
Southern Interior Cypress Forest or Tecate Cypress Forest	2			2
Riparian	14	11	5	30
Generalized Riparian	5	5	5	15
Canyon Live Oak Ravine Forest	1			1
Coast Live Oak Riparian Forest	6	6		12
White Alder Riparian Forest	2			2
Wetlands	3		1	4
Generalized Wetlands	3		1	4
Disturbed and Other Types	1		4	5
Uncategorized	1		4	5
Total	206	102	22	330

Analysis

As discussed above, recent classification efforts in San Diego and Riverside Counties produced an available RA dataset consistent with the methods employed for this current effort. For the types of analyses employed in producing a vegetation classification, a larger dataset is generally expected to produce more robust results by

reducing artificial grouping. Therefore, the data from the 346 RAs collected for this project were combined with data from 1,494 RAs collected for the Western Riverside classification effort and the 1,309 RAs collected for the Western San Diego classification effort. These data were prepared for analysis through the following steps:

1. Generate “pseudo-species” to combine similar or ecologically equivalent taxa.
2. Filter out nonnative species in stands dominated by native species.
3. Remove uncommon taxa occurring in less than three stands.
4. Divide the data into “Tree,” “Shrub,” or “Herb” subsets.
5. Normalize data through Arcsine Square Root transformation of cover values.

The resulting datasets were subjected to two stages of an agglomerative hierarchical cluster analysis within a biostatistical software application (PC-ORD). When conducting cluster analyses on large heterogeneous datasets, it is often useful to conduct these analyses in stages that divide the dataset into more manageable groups. In the first stage of analysis, cluster analyses were performed for each of the Tree, Shrub, and Herb subsets. This stage produced subclusters of a manageable size. The RA datasets for each of these subclusters was then reanalyzed to produce the preliminary classification. All stages of the cluster analyses were performed using a Bray-Curtis distance matrix and a flexible linkage of -0.25.

This preliminary classification based strictly on the cluster groupings was then compared to published membership rules. The results of these analyses defined the number of distinct vegetation types sampled, and, when compared to published membership rules, allowed the assignment of each stand to a known alliance and association from the MCV, or, in cases where no known vegetation types agreed with the current analyses, allowed the definition of new or provisional alliances and associations.

Results

The above analysis resulted in the classification of 66 Alliances with 68 Associations and six Semi-Natural types within the study area. Of particular note, these results include two Provisional Alliances and five Provisional Associations defined by native species, and two Semi-Natural Stand types defined by nonnative species that have not been described in previous studies (Table 2). The term “Provisional” is used here to describe a vegetation type that appears valid based on the current analyses but for which a greater number of samples may be required for acceptance in the MCV.

Table 2. Previously Undescribed Vegetation Types Found within the Study Area

Alliance	Association
<i>Artemisia californica</i>	<i>Artemisia californica-Eriogonum fasciculatum-Opuntia littoralis*</i>
<i>Artemisia californica</i>	<i>Artemisia californica-Mimulus aurantiacus-Elymus condensatus*</i>
<i>Artemisia californica</i>	<i>Artemisia californica-Nolina cismontana*</i>
<i>Atriplex amnicola</i> Semi-Natural Stands	(Semi-Natural Stand Types)
<i>Cynara cardunculus</i> Semi-Natural Stands	(Semi-Natural Stand Types)
<i>Ericameria palmeri*</i>	<i>Ericameria palmeri/Stipa pulchra*</i>
<i>Quercus wislizeni</i>	<i>Quercus wislizeni-Arctostaphylos glandulosa*</i>
<i>Rhus integrifolia/Dudleya edulis-Carpobrotus</i> spp.	(Alliance level only)

* Provisional

The classification results were subdivided into the dominant life form(s) and are presented in the following sections of this report. Data that describe the species composition and environmental conditions recorded within the stands for each vegetation type are summarized in tabular form. Data from the current study (OC stands) are presented alongside the aggregate dataset for Western San Diego (WSD) and Western Riverside (WR). Measured parameters presented in the Local Vegetation Description and Local Environmental Description, such as “cover” and “aspect,” are defined according to the common ecological usage of these terms.

The Stand Tables present calculated values of species frequency and cover under abbreviated headings that require some explanation. “CON” represents the frequency (or constancy) at which a species was detected within all of the stands of the vegetation type represented by the table. The values for AVE, MIN, and MAX represent the average, minimum, and maximum cover values for each species detected within all of the stands for the vegetation type represented by the table.

Discussion

The next phase of this project involves the creation of a new vegetation map for the study area. A mapping classification scheme will need to be defined that will include this vegetation classification and classifications for features not defined by vegetation. CDFG Vegetation Classification and Mapping Program staff provided an initial review of these results. The program currently has limited staff availability to review this vegetation classification in detail for consistency with the MCV, but a more detailed review is projected for completion by March 2013. Therefore, in the course of preparing the mapping classification, it may be determined that minor modifications to the vegetation classification may be required.

The second phase of this project will result in the following products:

- A vegetation map for the approximately 60,000-acre study area.
- A field manual of vegetation types for the Central and Coastal Reserves (including a key to distinguish types).
- A crosswalk and discussion on how to compare the current classification scheme to prior classifications.
- A discussion of mapping methods.

References

- Sawyer, J., T. Keeler-Wolf and J. Evens. 2009. *A Manual of California Vegetation, 2nd Edition*. California Native Plant Society Press. Sacramento, California.
- Gray, J. and D. Bramlet. 1992. Habitat Classification System Natural Resources Geographic Information Systems (GIS) Project. Report prepared for Orange County Environmental Management Agency, Santa Ana, California.

VEGETATION DOMINATED BY TREES

***Acer macrophyllum* Alliance**

***Acer macrophyllum* Association**

Samples Used To Describe Association (n= 1)

Rapid Assessment(s), WR and WSD stands: None

Rapid Assessment(s), OC stands (n=1): 1230JD01

Local Vegetation Description	All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)		62.0 (62.0)	62-62 (62-62)	-
Herb cover (%)		1.0 (-)	1-1 (-)	0-0.5 (-)
Shrub cover (%)		1.0 (-)	1-1 (-)	1-2 (-)
Tall shrub / low tree cover (%)		- (-)	- (-)	- (-)
Overstory tree cover (%)		55.0 (-)	55-55 (-)	10-15 (-)

Local Environmental Description (All stands, OC stands)

Aspect: E (1,1)

Macrotopography: middle 1/3 of slope (1,1)

Microtopography: concave (1,1)

Parent material:

Soil texture: sandy loam (1,1)

Category	Average	Range
Elevation (ft)	4308 (4308)	4308-4308 (4308-4308)
Slope (degrees)	15 (15.0)	15-15 (15-15)
Large rock cover (%)	5.0 (5.0)	5-5 (5-5)
Small rock cover (%)	41.0 (41.0)	41-41 (41-41)
Bare ground cover (%)	18.0 (18.0)	18-18 (18-18)
Litter cover (%)	34.0 (34.0)	34-34 (34-34)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Acer macrophyllum</i>	100 (100)	34 (34)	34 (34)	34 (34)
Tree	<i>Platanus racemosa</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Tree	<i>Pseudotsuga macrocarpa</i>	100 (100)	6 (6)	6 (6)	6 (6)
Tree	<i>Quercus chrysolepis</i>	100 (100)	18 (18)	18 (18)	18 (18)
Shrub	<i>Ribes</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Dryopteris arguta</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Polystichum imbricans</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

***Alnus rhombifolia* Alliance**
***Alnus rhombifolia* (Alliance Only)**

Samples Used To Describe Association (n= 4)

Rapid Assessment(s), WR and WSD stands: IDYL.056/BPU 379-33, IDYL.061, LAFU.029/1330
 Rapid Assessment(s), OC stands (n=1): 1195EK01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	70.0 (56.0)	56-94 (56-56)	-
Herb cover (%)	27.8 (26.0)	15-50 (26-26)	0-1 (0-0.5)
Shrub cover (%)	8.3 (0.2)	0.2-15 (0.2-0.2)	1-2 (1-2)
Tall shrub / low tree cover (%)	0.2 (0.2)	0.2-0.2 (0.2-0.2)	0-5 (0-0.5)
Overstory tree cover (%)	48.3 (39.0)	39-65 (39-39)	5-10 (5-10)

Local Environmental Description (All stands, OC stands)

Aspect: SW (2,0), NW (1,1), SE (1,0)
 Macrotopography: lower 1/3 of slope (1,0), bottom (3,1)
 Microtopography: concave (4,1)
 Parent material: mixed alluvium (2,1), sandy alluvium (2,0)
 Soil texture: sandy loam (1,0), silt (1,0), sand (1,1)

Category	Average	Range
Elevation (ft)	4096 (1512)	1512-5271 (1512-1512)
Slope (degrees)	3 (2.0)	2-5 (2-2)
Large rock cover (%)	10.5 (1.0)	1-20 (1-1)
Small rock cover (%)	11.5 (24.0)	5-24 (24-24)
Bare ground cover (%)	9.8 (16.0)	2-16 (16-16)
Litter cover (%)	57.3 (54.0)	40-75 (54-54)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Alnus rhombifolia</i>	100 (100)	39 (38)	20 (38)	60 (38)
Tree	<i>Calocedrus decurrens</i>	50 (-)	12 (-)	7 (-)	17 (-)
Tree	<i>Pinus coulteri</i>	50 (-)	1.5 (-)	1 (-)	2 (-)
Tree	<i>Pinus jeffreyi</i>	50 (-)	2.5 (-)	1 (-)	4 (-)
Tree	<i>Pinus lambertiana</i>	25 (-)	1 (-)	1 (-)	1 (-)
Tree	<i>Platanus racemosa</i>	25 (100)	1.2 (1.2)	1.2 (1.2)	1.2 (1.2)
Tree	<i>Quercus chrysolepis</i>	25 (-)	5 (-)	5 (-)	5 (-)
Tree	<i>Quercus kelloggii</i>	25 (-)	3 (-)	3 (-)	3 (-)
Tree	<i>Quercus wislizeni</i>	25 (-)	1 (-)	1 (-)	1 (-)
Shrub	<i>Rosa californica</i>	50 (-)	8.5 (-)	2 (-)	15 (-)
Shrub	<i>Euonymus occidentalis</i>	25 (-)	2 (-)	2 (-)	2 (-)
Shrub	* <i>Ficus carica</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Lonicera subspicata</i>	25 (-)	1 (-)	1 (-)	1 (-)

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Shrub	<i>Rhamnus californica</i>	25 (-)	1 (-)	1 (-)	1 (-)
Shrub	<i>Rhamnus ilicifolia</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Rhododendron occidentale</i>	25 (-)	12 (-)	12 (-)	12 (-)
Shrub	<i>Ribes nevadense</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Salix lasiolepis</i>	25 (-)	1 (-)	1 (-)	1 (-)
Shrub	<i>Toxicodendron diversilobum</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Urtica dioica</i>	75 (-)	9.7 (-)	1 (-)	25 (-)
Herb	<i>Carex</i>	50 (-)	3 (-)	1 (-)	5 (-)
Herb	<i>Claytonia parviflora</i>	50 (-)	2 (-)	1 (-)	3 (-)
Herb	<i>Fragaria vesca</i>	50 (-)	1.1 (-)	0.2 (-)	2 (-)
Herb	<i>Pteridium aquilinum</i> var. <i>pubescens</i>	50 (-)	2.5 (-)	1 (-)	4 (-)
Herb	<i>Achillea millefolium</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Agrostis exarata</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Artemisia douglasiana</i>	25 (-)	5 (-)	5 (-)	5 (-)
Herb	* <i>Arundo donax</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Athyrium filix-femina</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Bromus diandrus</i>	25 (-)	12 (-)	12 (-)	12 (-)
Herb	* <i>Bromus tectorum</i>	25 (-)	5 (-)	5 (-)	5 (-)
Herb	* <i>Epilobium</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Equisetum arvense</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Juncus effusus</i>	25 (-)	2 (-)	2 (-)	2 (-)
Herb	<i>Juncus</i>	25 (-)	3 (-)	3 (-)	3 (-)
Herb	<i>Lilium humboldtii</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Nasturtium officinale</i>	25 (100)	1 (1)	1 (1)	1 (1)
Herb	* <i>Plantago major</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Potentilla glandulosa</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Rumex crispus</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Scirpus microcarpus</i>	25 (-)	4 (-)	4 (-)	4 (-)
Herb	<i>Stachys</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Stachys albens</i>	25 (-)	7 (-)	7 (-)	7 (-)
Herb	* <i>Stipa miliacea</i> var. <i>miliacea</i>	25 (100)	10 (10)	10 (10)	10 (10)
Herb	* <i>Veronica</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Vinca major</i>	25 (100)	14 (14)	14 (14)	14 (14)

***Alnus rhombifolia* Alliance**
***Alnus rhombifolia*-*Acer macrophyllum* Association**

Samples Used To Describe Association (n= 1)

Rapid Assessment(s), WR and WSD stands: None
 Rapid Assessment(s), OC stands (n=1): 1283EK01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	50.0 (50.0)	50-50 (50-50)	-
Herb cover (%)	4.0 (4.0)	4-4 (4-4)	0-0.5 (0-0.5)
Shrub cover (%)	15.0 (15.0)	15-15 (15-15)	1-2 (1-2)
Tall shrub / low tree cover (%)	4.0 (4.0)	4-4 (4-4)	1-2 (1-2)
Overstory tree cover (%)	40.0 (40.0)	40-40 (40-40)	10-15 (10-15)

Local Environmental Description (All stands, OC stands)

Aspect: N (1,1)
 Macrotopography: middle 1/3 of slope (1,1)
 Microtopography: concave (1,1)
 Parent material: mixed alluvium (1,1)
 Soil texture: sand (1,1)

Category	Average	Range
Elevation (ft)	3009 (3009)	3009-3009 (3009-3009)
Slope (degrees)	6 (6.0)	6-6 (6-6)
Large rock cover (%)	10.0 (10.0)	10-10 (10-10)
Small rock cover (%)	34.0 (34.0)	34-34 (34-34)
Bare ground cover (%)	16.0 (16.0)	16-16 (16-16)
Litter cover (%)	35.0 (35.0)	35-35 (35-35)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Acer macrophyllum</i>	100 (100)	8 (8)	8 (8)	8 (8)
Tree	<i>Alnus rhombifolia</i>	100 (100)	17 (17)	17 (17)	17 (17)
Tree	<i>Pseudotsuga macrocarpa</i>	100 (100)	5 (5)	5 (5)	5 (5)
Tree	<i>Umbellularia californica</i>	100 (100)	14 (14)	14 (14)	14 (14)
Shrub	<i>Frangula californica</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Ribes californicum</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Rubus ursinus</i>	100 (100)	3 (3)	3 (3)	3 (3)
Shrub	<i>Symphoricarpos mollis</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Toxicodendron diversilobum</i>	100 (100)	12 (12)	12 (12)	12 (12)
Herb	<i>Artemisia douglasiana</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Dryopteris arguta</i>	100 (100)	2 (2)	2 (2)	2 (2)
Herb	<i>Elymus triticoides</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Galium aparine</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Lilium humboldtii</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Melica imperfecta</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Osmorhiza brachypoda</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)



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Herb	<i>Stachys rigida</i>	100 (100)	1 (1)	1 (1)	1 (1)
Herb	<i>Thalictrum fendleri</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

***Alnus rhombifolia* Alliance**

***Alnus rhombifolia-Platanus racemosa* Association**

Samples Used To Describe Association (n= 3)

Rapid Assessment(s), WR and WSD stands: BLACK.031\1382-BPU1216-293

Rapid Assessment(s), OC stands (n=2): 1212EK01, 1526EK01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	70.0 (67.5)	67-75 (67-68)	-
Herb cover (%)	10.0 (12.0)	4-20 (4-20)	0-0.5 (0-0.5)
Shrub cover (%)	20.1 (24.1)	0.2-48 (0.2-48)	0-2 (0-2)
Tall shrub / low tree cover (%)	14.0 (14.0)	14-14 (14-14)	2-5 (2-5)
Overstory tree cover (%)	54.3 (49.0)	49-65 (49-49)	10-20 (10-20)

Local Environmental Description (All stands, OC stands)

Aspect: N (1,1), SW (1,0), W (1,1)

Macrotopography: bottom (2,2), lower 1/3 of slope (1,0)

Microtopography: concave (3,2)

Parent material: granitic (1,0), mixed alluvium (2,2)

Soil texture: sand (2,1)

Category	Average	Range
Elevation (ft)	1969 (1450)	823-3007 (823-2077)
Slope (degrees)	3 (2.5)	1-4 (1-4)
Large rock cover (%)	12.0 (0.5)	0-35 (0-1)
Small rock cover (%)	18.0 (23.5)	7-25 (22-25)
Bare ground cover (%)	3.3 (5.0)	0-8 (2-8)
Litter cover (%)	56.7 (62.5)	45-65 (60-65)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Alnus rhombifolia</i>	100 (100)	31 (36.5)	20 (28)	45 (45)
Tree	<i>Platanus racemosa</i>	100 (100)	12 (6.5)	4 (4)	23 (9)
Tree	<i>Salix laevigata</i>	67 (50)	19.5 (26)	13 (26)	26 (26)
Tree	<i>Acer macrophyllum</i>	33 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Tree	<i>Populus fremontii</i>	33 (-)	2 (-)	2 (-)	2 (-)
Tree	<i>Quercus agrifolia</i>	33 (-)	10 (-)	10 (-)	10 (-)
Tree	<i>Umbellularia californica</i>	33 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Toxicodendron diversilobum</i>	67 (50)	4 (2)	2 (2)	6 (2)
Shrub	<i>Acmispon glaber</i>	33 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Baccharis salicifolia</i>	33 (-)	1 (-)	1 (-)	1 (-)
Shrub	<i>Frangula californica</i>	33 (50)	1 (1)	1 (1)	1 (1)
Shrub	<i>Heteromeles arbutifolia</i>	33 (-)	5 (-)	5 (-)	5 (-)
Shrub	<i>Keckiella cordifolia</i>	33 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Phoradendron</i>	33 (-)	2 (-)	2 (-)	2 (-)
Shrub	<i>Prunus ilicifolia</i>	33 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Rhamnus ilicifolia</i>	33 (-)	2 (-)	2 (-)	2 (-)
Shrub	* <i>Ricinus communis</i>	33 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

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Shrub	<i>Rubus ursinus</i>	33 (50)	45 (45)	45 (45)	45 (45)
Herb	<i>Artemisia douglasiana</i>	100 (100)	2.4 (3.5)	0.2 (3)	4 (4)
Herb	<i>Stachys</i>	67 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Urtica dioica</i>	67 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus diandrus</i>	33 (-)	3 (-)	3 (-)	3 (-)
Herb	* <i>Cyperus</i>	33 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Galium aparine</i>	33 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Juncus oxymeris</i>	33 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Lupinus latifolius</i>	33 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Mimulus cardinalis</i>	33 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Mimulus guttatus</i>	33 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Nasturtium officinale</i>	33 (50)	5 (5)	5 (5)	5 (5)
Herb	* <i>Oxalis pes-caprae</i>	33 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Scrophularia californica</i>	33 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Stipa miliacea var. miliacea</i>	33 (50)	11 (11)	11 (11)	11 (11)
Herb	<i>Xanthium strumarium</i>	33 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

***Hesperocyparis forbesii* Alliance**
***Hesperocyparis forbesii* Provisional Association**

Samples Used To Describe Association (n= 9)

Rapid Assessment(s), WR and WSD stands: 1834MB02, 1600LS01, 1834MB01, 1361LS02, 1834MB04, 1401MB01, 1839MB01

Rapid Assessment(s), OC stands (n=2): 1275JD01, 1506EK01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	63.0 (50.5)	41-87 (41-60)	-
Herb cover (%)	7.8 (2.0)	1-22 (2-2)	0-1 (0-0.5)
Shrub cover (%)	41.0 (41.0)	41-41 (41-41)	0-5 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	1-5 (-)
Overstory tree cover (%)	36.0 (-)	5-60 (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: N (1,1), NE (2,1), Flat (2,0), NW (4,0)

Macrotopography: bottom (2,0), lower 1/3 of slope (2,0), ridge top (1,0), upper 1/3 of slope (4,2)

Microtopography: convex (2,0), flat (5,1), concave (2,1)

Parent material: metamorphic (5,0), sandstone (1,1)

Soil texture: clay loam (6,0), sand (1,1), sandy loam (1,1), unknown (1,0)

Category	Average	Range
Elevation (ft)	1727 (3066)	249-4491 (1640-4491)
Slope (degrees)	9 (13.5)	0-25 (12-15)
Large rock cover (%)	5.0 (-)	0-25 (-)
Small rock cover (%)	32.8 (10.0)	10-75 (10-10)
Bare ground cover (%)	22.1 (63.0)	7-63 (63-63)
Litter cover (%)	34.8 (25.0)	0-67 (25-25)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Hesperocyparis forbesii</i>	100 (100)	30.4 (2.6)	.2 (.2)	60 (5)
Shrub	<i>Malosma laurina</i>	78 (50)	3.4 (0.2)	0.2 (0.2)	12 (0.2)
Shrub	<i>Adenostoma fasciculatum</i>	67 (50)	9.2 (0.2)	0.2 (0.2)	20 (0.2)
Shrub	<i>Eriophyllum confertiflorum var. confertiflorum</i>	56 (-)	1.5 (-)	0.2 (-)	4 (-)
Shrub	<i>Ceanothus tomentosus</i>	44 (50)	18.3 (24)	15 (24)	24 (24)
Shrub	<i>Arctostaphylos glandulosa subsp. glandulosa</i>	33 (-)	8.7 (-)	7 (-)	12 (-)
Shrub	<i>Chamaebatia australis</i>	33 (-)	1.1 (-)	0.2 (-)	2 (-)
Shrub	<i>Dendromecon rigida</i>	33 (50)	1.1 (0.2)	0.2 (0.2)	2 (0.2)
Shrub	<i>Heteromeles arbutifolia</i>	33 (50)	1.4 (0.2)	0.2 (0.2)	2 (0.2)
Shrub	<i>Mimulus aurantiacus</i>	33 (-)	0.5 (-)	0.2 (-)	1 (-)
Herb	* <i>Festuca myuros</i>	78 (50)	1.7 (0.2)	0.2 (0.2)	4 (0.2)
Herb	* <i>Bromus rubens</i>	67 (-)	3.2 (-)	0.2 (-)	12 (-)
Herb	* <i>Centaurea melitensis</i>	56 (50)	1.9 (0.2)	0.2 (0.2)	6 (0.2)
Herb	* <i>Hirschfeldia incana</i>	44 (50)	0.8 (1)	0.2 (1)	1 (1)
Herb	* <i>Avena barbata</i>	33 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Galium porrigens var. porrigens</i>	33 (-)	0.2 (-)	0.2 (-)	0.2 (-)

***Juglans californica* Alliance**

***Juglans californica/Bromus diandrus* Association**

Samples Used To Describe Association (n= 3)

Rapid Assessment(s), WR and WSD stands: None

Rapid Assessment(s), OC stands (n=3): 1444EK01, 1444EK02, 1490EK01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	58.7 (58.7)	33-80 (33-80)	-
Herb cover (%)	50.7 (50.7)	25-75 (25-75)	0-2 (0-2)
Shrub cover (%)	2.7 (2.7)	1-5 (1-5)	1-2 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	7.3 (7.3)	7-8 (7-8)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: E (1,1), N (1,1), SE (1,1)

Macrotopography: middle 1/3 of slope (2,2), middle to upper 1/3 of slope (1,1)

Microtopography: undulating (3,3)

Parent material: sandstone (1,1)

Soil texture: clay (1,1), clay loam (2,2)

Category	Average	Range
Elevation (ft)	595 (595)	456-751 (456-751)
Slope (degrees)	23 (22.7)	15-35 (15-35)
Large rock cover (%)	0.3 (0.3)	0-1 (0-1)
Small rock cover (%)	1.0 (1.0)	0-3 (0-3)
Bare ground cover (%)	42.3 (42.3)	32-52 (32-52)
Litter cover (%)	53.3 (53.3)	45-65 (45-65)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Juglans californica</i>	100 (100)	6.7 (6.7)	6 (6)	7 (7)
Tree	* <i>Schinus molle</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Tree	* <i>Nicotiana glauca</i>	33 (33)	1 (1)	1 (1)	1 (1)
Tree	<i>Quercus agrifolia</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Heteromeles arbutifolia</i>	67 (67)	1.1 (1.1)	0.2 (0.2)	2 (2)
Shrub	<i>Malosma laurina</i>	67 (67)	2.5 (2.5)	1 (1)	4 (4)
Shrub	<i>Rhus integrifolia</i>	67 (67)	0.6 (0.6)	0.2 (0.2)	1 (1)
Shrub	<i>Sambucus nigra</i> subsp. <i>caerulea</i>	67 (67)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Artemisia californica</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Marah</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Opuntia littoralis</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	* <i>Ricinus communis</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Salvia apiana</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Salvia leucophylla</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Toxicodendron diversilobum</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus diandrus</i>	100 (100)	35 (35)	25 (25)	40 (40)
Herb	* <i>Centaurea melitensis</i>	100 (100)	1.8 (1.8)	0.2 (0.2)	5 (5)
Herb	<i>Acourtia microcephala</i>	67 (67)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Brassica nigra</i>	67 (67)	22.5 (22.5)	15 (15)	30 (30)
Herb	<i>Elymus condensatus</i>	67 (67)	0.6 (0.6)	0.2 (0.2)	1 (1)
Herb	* <i>Silybum marianum</i>	67 (67)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Calystegia macrostegia</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Chaenactis</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Croton setiger</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Foeniculum vulgare</i>	33 (33)	5 (5)	5 (5)	5 (5)
Herb	* <i>Hirschfeldia incana</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Malacothrix saxatilis</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

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Herb	<i>Phacelia</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Pseudognaphalium californicum</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Solanum</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Sonchus asper</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Stephanomeria</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Stipa miliacea var. miliacea</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

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***Pinus attenuata* Alliance**
***Pinus attenuata* (Alliance Only)**

Samples Used To Describe Association (n= 1)

Rapid Assessment(s), WR and WSD stands: None

Rapid Assessment(s), OC stands (n=1): 1321EK01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	62.0 (62.0)	62-62 (62-62)	-
Herb cover (%)	26.0 (26.0)	26-26 (26-26)	0-0.5 (0-0.5)
Shrub cover (%)	2.0 (2.0)	2-2 (2-2)	0.5-1 (0.5-1)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	40.0 (40.0)	40-40 (40-40)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: N (1,1)

Macrotopography:

Microtopography: undulating (1,1)

Parent material:

Soil texture: sandy loam (1,1)

Category	Average	Range
Elevation (ft)	3645 (3645)	3645-3645 (3645-3645)
Slope (degrees)	4 (4.0)	4-4 (4-4)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	5.0 (5.0)	5-5 (5-5)
Bare ground cover (%)	27.0 (27.0)	27-27 (27-27)
Litter cover (%)	65.0 (65.0)	65-65 (65-65)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Pinus attenuata</i>	100 (100)	35 (35)	35 (35)	35 (35)
Tree	<i>Pinus coulteri</i>	100 (100)	5 (5)	5 (5)	5 (5)
Shrub	<i>Adenostoma fasciculatum</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Eriogonum fasciculatum</i>	100 (100)	1 (1)	1 (1)	1 (1)
Shrub	<i>Helianthemum scoparium</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Quercus berberidifolia</i>	100 (100)	1 (1)	1 (1)	1 (1)
Herb	* <i>Bromus diandrus</i>	100 (100)	10 (10)	10 (10)	10 (10)
Herb	* <i>Centaurea melitensis</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Corethrogyne filaginifolia</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

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Herb	<i>*Festuca myuros</i>	100 (100)	15 (15)	15 (15)	15 (15)
Herb	<i>*Marrubium vulgare</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Pseudognaphalium</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

Pinus attenuata Alliance

Pinus attenuata/Arctostaphylos glandulosa Association

Samples Used To Describe Association (n= 4)

Rapid Assessment(s), WR and WSD stands: CLNF.125/310, CLNF.110, CLNF.114

Rapid Assessment(s), OC stands (n=1): 1342EK01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	61.5 (45.0)	45-69 (45-45)	-
Herb cover (%)	11.3 (7.0)	0-38 (7-7)	0-0.5 (0-0.5)
Shrub cover (%)	28.3 (9.0)	4-55 (9-9)	0.5-1 (0.5-1)
Tall shrub / low tree cover (%)	- (-)	- (-)	1-2 (-)
Overstory tree cover (%)	26.5 (29.0)	20-35 (29-29)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: N (1,1), NE (2,0), Variable (1,0)

Macrotopography: middle 1/3 of slope (2,0), ridge top (1,0), upper 1/3 of slope (1,1)

Microtopography: undulating (4,1)

Parent material: sedimentary (3,0)

Soil texture: clay loam (1,0), loam (2,0), sandy loam (1,1)

Category	Average	Range
Elevation (ft)	3176 (3661)	1657-3744 (3661-3661)
Slope (degrees)	19 (4.0)	4-35 (4-4)
Large rock cover (%)	0.3 (-)	0-1 (-)
Small rock cover (%)	12.8 (19.0)	0-20 (19-19)
Bare ground cover (%)	15.0 (26.0)	3-26 (26-26)
Litter cover (%)	57.5 (55.0)	20-85 (55-55)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Pinus attenuata</i>	100 (100)	21 (25)	17 (25)	25 (25)
Tree	<i>Pinus coulteri</i>	50 (100)	11.5 (4)	4 (4)	19 (4)
Shrub	<i>Arctostaphylos glandulosa</i>	100 (100)	23 (6)	2 (6)	54 (6)
Shrub	<i>Adenostoma fasciculatum</i>	75 (100)	5.1 (2)	0.2 (2)	13 (2)
Shrub	<i>Dendromecon rigida</i>	75 (100)	0.5 (0.2)	0.2 (0.2)	1 (0.2)
Shrub	<i>Quercus berberidifolia</i>	50 (-)	0.6 (-)	0.2 (-)	1 (-)
Shrub	<i>Ceanothus papillosus</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Ceanothus tomentosus</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Eriogonum fasciculatum</i>	25 (-)	1 (-)	1 (-)	1 (-)
Shrub	<i>Garrya flavescens</i>	25 (-)	1 (-)	1 (-)	1 (-)

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Shrub	<i>Helianthemum scoparium</i>	25 (100)	1 (1)	1 (1)	1 (1)
Shrub	<i>Heteromeles arbutifolia</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Mimulus aurantiacus</i>	25 (-)	2 (-)	2 (-)	2 (-)
Shrub	<i>Rhamnus ilicifolia</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Brassica nigra</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	* <i>Bromus hordeaceus</i>	25 (-)	15 (-)	15 (-)	15 (-)
Herb	* <i>Bromus madritensis</i>	25 (100)	2 (2)	2 (2)	2 (2)
Herb	* <i>Bromus tectorum</i>	25 (100)	5 (5)	5 (5)	5 (5)
Herb	* <i>Festuca myuros</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Penstemon spectabilis</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Pseudognaphalium</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

Pinus coulteri Alliance

Pinus coulteri (Alliance Only)

Samples Used To Describe Association (n= 1)

Rapid Assessment(s), WR and WSD stands: None

Rapid Assessment(s), OC stands (n=1): 1172EK02

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	35.0 (35.0)	35-35 (35-35)	-
Herb cover (%)	6.0 (6.0)	6-6 (6-6)	0-0.5 (0-0.5)
Shrub cover (%)	1.0 (1.0)	1-1 (1-1)	1-2 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	34.0 (34.0)	34-34 (34-34)	10-15 (10-15)

Local Environmental Description (All stands, OC stands)

Aspect: N (1,1)

Macrotopography: upper 1/3 of slope (1,1)

Microtopography: convex (1,1)

Parent material: granitic (1,1)

Soil texture: clay loam (1,1)

Category	Average	Range
Elevation (ft)	3451 (3451)	3451-3451 (3451-3451)
Slope (degrees)	5 (5.0)	5-5 (5-5)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	- (-)	- (-)
Bare ground cover (%)	24.0 (24.0)	24-24 (24-24)
Litter cover (%)	74.0 (74.0)	74-74 (74-74)



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Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Pinus coulteri</i>	100 (100)	33 (33)	33 (33)	33 (33)
Tree	<i>Quercus agrifolia</i>	100 (100)	1 (1)	1 (1)	1 (1)
Shrub	<i>Cercocarpus betuloides</i> var.	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>betuloides</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Heteromeles arbutifolia</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Rhamnus ilicifolia</i>	100 (100)	1 (1)	1 (1)	1 (1)
Herb	<i>Dryocallis lactea</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Dryopteris arguta</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Elymus glaucus</i>	100 (100)	3 (3)	3 (3)	3 (3)
Herb	<i>Galium porrigens</i>	100 (100)	1 (1)	1 (1)	1 (1)
Herb	<i>Osmorhiza brachypoda</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Paeonia californica</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Sidalcea malviflora</i>	100 (100)	1 (1)	1 (1)	1 (1)
Herb	<i>Viola purpurea</i>	100 (100)	1 (1)	1 (1)	1 (1)

***Pinus coulteri* Alliance**

***Pinus coulteri*/Arctostaphylos glandulosa-Quercus wislizeni Association**

Samples Used To Describe Association (n= 7)

Rapid Assessment(s), WR and WSD stands: BLACK.035/65, CLNF.081, CLNF.094, CLNF.032, CLNF.063

Rapid Assessment(s), OC stands (n=2): 1210EK02, 1213JD01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	72.7 (57.0)	48-93 (48-66)	-
Herb cover (%)	8.4 (-)	0-40 (-)	0-0.5 (-)
Shrub cover (%)	46.2 (-)	38-62 (-)	0.5-2 (-)
Tall shrub / low tree cover (%)	- (-)	- (-)	1-5 (-)
Overstory tree cover (%)	37.2 (-)	13-47 (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: NW (4,1), SW (1,0), Variable (2,1)

Macrotopography: middle 1/3 of slope (1,0), upper 1/3 of slope (4,0), upper 1/3 of slope to ridgetop (2,2)

Microtopography: concave (1,1), Convex (3,0), Undulating (3,1)

Parent material: granitic (5,0)

Soil texture: sand (1,1), sandy loam (5,1)

Category	Average	Range
Elevation (ft)	3821 (4011)	3500-4488 (3914-4108)
Slope (degrees)	25 (20.5)	10-42 (15-26)
Large rock cover (%)	1.7 (-)	0-8 (-)
Small rock cover (%)	7.1 (3.5)	0-40 (2-5)
Bare ground cover (%)	8.9 (19.5)	0-31 (8-31)
Litter cover (%)	63.9 (75.0)	0-96 (65-85)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Pinus coulteri</i>	100 (100)	28.6 (13.5)	10 (12)	45 (15)
Tree	<i>Quercus wislizeni</i>	86 (100)	6.8 (6)	4 (4)	10 (8)
Tree	<i>Quercus chrysolepis</i>	43 (-)	4 (-)	1 (-)	8 (-)
Shrub	<i>Arctostaphylos glandulosa</i>	100 (100)	29.1 (35)	10 (32)	40 (38)
Shrub	<i>Ceanothus leucodermis</i>	71 (100)	5 (2)	1 (1)	15 (3)
Shrub	<i>Adenostoma fasciculatum</i>	57 (100)	0.9 (0.2)	0.2 (0.2)	2 (0.2)
Shrub	<i>Dendromecon rigida</i>	43 (50)	1.1 (0.2)	0.2 (0.2)	2 (0.2)
Shrub	<i>Heteromeles arbutifolia</i>	43 (-)	5 (-)	1 (-)	11 (-)
Shrub	<i>Ceanothus crassifolius</i>	29 (50)	1.6 (0.2)	0.2 (0.2)	3 (0.2)
Shrub	<i>Cercocarpus betuloides</i>	29 (-)	9 (-)	1 (-)	17 (-)
Shrub	<i>Eriodictyon crassifolium</i>	29 (50)	0.6 (0.2)	0.2 (0.2)	1 (0.2)
Shrub	<i>Eriogonum fasciculatum</i>	29 (-)	1 (-)	1 (-)	1 (-)
Shrub	<i>Rhamnus californica</i>	29 (-)	1.1 (-)	0.2 (-)	2 (-)
Shrub	<i>Rhus ovata</i>	29 (-)	1 (-)	1 (-)	1 (-)
Herb	<i>*Bromus tectorum</i>	29 (-)	10.1 (-)	0.2 (-)	20 (-)

Pinus coulteri Alliance

Pinus coulteri/Quercus wislizeni Association

Samples Used To Describe Association (n= 5)

Rapid Assessment(s), WR and WSD stands: BUTT.008/128, PALM.008/553, IDYL.007, BUTT.004/138

Rapid Assessment(s), OC stands (n=1): 1184EK01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	48.4 (53.0)	14-60 (53-53)	-
Herb cover (%)	11.2 (1.0)	1-30 (1-1)	0-1 (0-0.5)
Shrub cover (%)	26.0 (41.0)	9-41 (41-41)	0-2 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	1-5 (-)
Overstory tree cover (%)	19.4 (27.0)	4-36 (27-27)	10-15 (10-15)

Local Environmental Description (All stands, OC stands)

Aspect: N (1,1), SW (3,0), Variable (1,0)

Macrotopography: upper 1/3 of slope (1,1), lower 1/3 of slope (2,0), middle 1/3 of slope (2,0)

Microtopography: Concave (3,1), Undulating (2,0)

Parent material: granitic (4,0), metamorphic (1,1)

Soil texture: clay loam (1,1), sandy loam (4,0)

Category	Average	Range
Elevation (ft)	4922 (4157)	4157-5476 (4157-4157)
Slope (degrees)	7 (7.0)	3-14 (7-7)
Large rock cover (%)	27.0 (-)	0-93 (-)
Small rock cover (%)	9.8 (-)	0-23 (-)
Bare ground cover (%)	19.0 (17.0)	1-50 (17-17)
Litter cover (%)	39.4 (80.0)	2-80 (80-80)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Pinus coulteri</i>	100 (100)	12.6 (25)	4 (25)	25 (25)
Tree	<i>Quercus wislizeni</i>	100 (100)	13 (8)	3 (8)	26 (8)
Tree	<i>Calocedrus decurrens</i>	40 (100)	1.1 (2)	0.2 (2)	2 (2)
Tree	<i>Quercus chrysolepis</i>	40 (-)	3 (-)	2 (-)	4 (-)
Shrub	<i>Adenostoma sparsifolium</i>	60 (-)	2 (-)	1 (-)	3 (-)
Shrub	<i>Cercocarpus betuloides</i>	60 (-)	0.7 (-)	0.2 (-)	1 (-)
Shrub	<i>Rhamnus ilicifolia</i>	60 (100)	0.7 (1)	0.2 (1)	1 (1)
Shrub	<i>Artemisia tridentata</i>	40 (-)	6 (-)	4 (-)	8 (-)
Shrub	<i>Eriogonum fasciculatum</i>	40 (-)	2.6 (-)	0.2 (-)	5 (-)
Shrub	<i>Lonicera subspicata</i>	40 (100)	0.6 (0.2)	0.2 (0.2)	1 (0.2)
Shrub	<i>Salix lasiolepis</i>	40 (-)	1.5 (-)	1 (-)	2 (-)
Herb	<i>*Bromus tectorum</i>	40 (-)	10.5 (-)	2 (-)	19 (-)

Platanus racemosa Alliance

Platanus racemosa Association

Samples Used To Describe Association (n= 10)

Rapid Assessment(s), WR and WSD stands: SUNN.003/482, NOPE.007/1111, BOSP.004/727, LAEL.006, BLACK.052, SUNN.004, LAMA.036, RIVW.004/400, WILD.009/392

Rapid Assessment(s), OC stands (n=1): 1108MA01

Local Vegetation Description	Average	Range	Height (m)
Total vegetation cover (%)	71.5 (65.0)	50-85 (65-65)	-
Herb cover (%)	23.1 (35.0)	0-65 (35-35)	0-1 (0-0.5)
Shrub cover (%)	23.1 (1.0)	1-75 (1-1)	0.5-5 (2-5)
Tall shrub / low tree cover (%)	- (-)	- (-)	0.5-5 (-)
Overstory tree cover (%)	36.7 (55.0)	14-60 (55-55)	5-10 (5-10)

Local Environmental Description (All stands, OC stands)

Aspect: Flat (2,1), NW (3,0), SW (5,0)

Macrotopography: bottom (4,1), lower 1/3 of slope (4,0), middle 1/3 of slope (1,0), upper 1/3 of slope (1,0)

Microtopography: Concave (8,0), Flat (2,1)

Parent material: granitic (2,0), mixed alluvium (3,0), mixed igneous (1,0), sandy alluvium (2,0), sedimentary (1,1)

Soil texture: clay loam (2,0), sand (3,0), sandy loam (3,1)

Category	Average	Range
Elevation (ft)	1604 (367)	367-3166 (367-367)
Slope (degrees)	5 (0.0)	0-15 (0-0)
Large rock cover (%)	7.5 (-)	0-20 (-)
Small rock cover (%)	13.4 (-)	0-47 (-)
Bare ground cover (%)	10.9 (2.0)	0-30 (2-2)
Litter cover (%)	49.3 (98.0)	0-100 (98-98)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Platanus racemosa</i>	100 (100)	32.9 (55)	13 (55)	58 (55)
Shrub	<i>Salix lasiolepis</i>	60 (-)	4.2 (-)	0.2 (-)	10 (-)
Shrub	<i>Toxicodendron diversilobum</i>	60 (-)	10.8 (-)	1 (-)	25 (-)
Shrub	<i>Baccharis salicifolia</i>	50 (-)	4.4 (-)	1 (-)	7 (-)
Shrub	<i>Sambucus mexicana</i>	40 (-)	1.1 (-)	0.2 (-)	2 (-)
Shrub	<i>Sambucus nigra subsp. caerulea</i>	40 (100)	1.1 (1)	0.2 (1)	2 (1)
Shrub	<i>Artemisia californica</i>	30 (-)	1.7 (-)	1 (-)	2 (-)
Shrub	<i>Eriogonum fasciculatum</i>	30 (-)	0.5 (-)	0.2 (-)	1 (-)
Herb	* <i>Bromus diandrus</i>	60 (100)	14.8 (35)	4 (35)	35 (35)
Herb	* <i>Bromus madritensis</i>	40 (-)	11.5 (-)	7 (-)	23 (-)

Platanus racemosa Alliance

***Platanus racemosa/Baccharis salicifolia* Association**

Samples Used To Describe Association (n= 4)

Rapid Assessment(s), WR and WSD stands: SDRP0199, 0610TK02, 0506RB05

Rapid Assessment(s), OC stands (n=1): 1293EK01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	50.8 (29.0)	29-65 (29-29)	-
Herb cover (%)	25.3 (3.0)	3-50 (3-3)	0-2 (0-0.5)
Shrub cover (%)	16.0 (16.0)	16-16 (16-16)	0-5 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	21.0 (10.0)	9-50 (10-10)	5-15 (5-10)

Local Environmental Description (All stands, OC stands)

Aspect: NE (1,0), SE (1,1), SW (2,0)

Macrotopography: bottom (3,0), middle 1/3 of slope (1,1)

Microtopography: convex (1,0), flat (2,0), concave (1,1)

Parent material: metamorphic (1,1), sandy alluvium (2,0)

Soil texture: sandy loam (1,0), sand (3,1)

Category	Average	Range
Elevation (ft)	1267 (2172)	325-2172 (2172-2172)
Slope (degrees)	2 (5.0)	1-5 (5-5)
Large rock cover (%)	3.0 (-)	0-12 (-)
Small rock cover (%)	19.0 (65.0)	0-65 (65-65)
Bare ground cover (%)	8.8 (13.0)	0-14 (13-13)
Litter cover (%)	41.0 (20.0)	0-75 (20-20)

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Stand Table

Category	Species Name	Con	Ave	Min	Max
Tree	<i>Platanus racemosa</i>	100 (100)	11.5 (10)	9 (10)	15 (10)
Tree	<i>Salix lasiolepis</i>	50 (100)	5.5 (1)	1 (1)	10 (1)
Tree	* <i>Eucalyptus globulus</i>	25 (-)	40 (-)	40 (-)	40 (-)
Shrub	<i>Baccharis salicifolia</i>	100 (100)	6.5 (2)	2 (2)	12 (2)
Shrub	<i>Frangula californica</i>	50 (100)	5.5 (5)	5 (5)	6 (5)
Shrub	<i>Heteromeles arbutifolia</i>	50 (100)	2.5 (1)	1 (1)	4 (1)
Shrub	<i>Keckiella cordifolia</i>	50 (100)	5.1 (0.2)	0.2 (0.2)	10 (0.2)
Shrub	<i>Mimulus aurantiacus</i>	50 (100)	2 (2)	2 (2)	2 (2)
Shrub	<i>Prunus ilicifolia</i>	50 (100)	1.1 (0.2)	0.2 (0.2)	2 (0.2)
Shrub	<i>Rosa californica</i>	50 (-)	2 (-)	1 (-)	3 (-)
Shrub	<i>Acmispon glaber</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Artemisia californica</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Brickellia californica</i>	25 (100)	3 (3)	3 (3)	3 (3)
Shrub	<i>Ceanothus spinosus</i>	25 (-)	8 (-)	8 (-)	8 (-)
Shrub	<i>Eriophyllum confertiflorum</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Keckiella antirrhinoides</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Mimulus guttatus</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Rhamnus ilicifolia</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Rubus ursinus</i>	25 (100)	1 (1)	1 (1)	1 (1)
Shrub	* <i>Tamarix</i>	25 (-)	9 (-)	9 (-)	9 (-)
Shrub	<i>Toxicodendron diversilobum</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Artemisia douglasiana</i>	75 (100)	15.7 (0.2)	0.2 (0.2)	40 (0.2)
Herb	* <i>Bromus diandrus</i>	50 (-)	15 (-)	5 (-)	25 (-)
Herb	<i>Ambrosia psilostachya</i>	25 (-)	3 (-)	3 (-)	3 (-)
Herb	<i>Asclepias fascicularis</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	* <i>Avena barbata</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus hordeaceus</i>	25 (-)	5 (-)	5 (-)	5 (-)
Herb	* <i>Bromus madritensis</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Calystegia macrostegia</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Dactylis glomerata</i>	25 (-)	5 (-)	5 (-)	5 (-)
Herb	<i>Datura</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	<i>Drymocallis lactea</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Elymus condensatus</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	<i>Elymus glaucus</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	<i>Elymus triticoides</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Erigeron foliosus</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Juncus rugulosus</i>	25 (-)	2 (-)	2 (-)	2 (-)
Herb	<i>Juncus textilis</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Lupinus latifolius</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Rafinesquia californica</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Scrophularia californica</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Stachys</i>	25 (-)	1 (-)	1 (-)	1 (-)

Herb	<i>Stachys rigida</i>	25 (100)	1 (1)	1 (1)	1 (1)
Herb	<i>Thalictrum fendleri</i>	25 (-)	3 (-)	3 (-)	3 (-)
Herb	* <i>Vicia</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

Platanus racemosa Alliance

Platanus racemosa-Quercus agrifolia Association

Samples Used To Describe Association (n= 36)

Rapid Assessment(s), WR and WSD stands: 1550MB02, SDRP0196, 1708JD02, 1067MB01, 0505MG02, 0504TK24, 1350EB02, 0507TK04, 1708JD01, 0309AK21, 1136MB01, 0505AK03, SDRP0323, 1576LS01, 0310DH26, 0610DH04, 1126MB01, 1068MB02, 1710JD08, 0603JS02, 1710KH04, 1123MB01, 0611RB01, 1041MB01, 0311TK23, SDRP0433, 0324TKF3, SDRP0194, 1800FS01, SDRP0476, 0610DH01, SDRP0191, OGPSMB03
Rapid Assessment(s), OC stands (n=3): 1123EK01, 1229EK01, 1450EK01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	67.3 (56.3)	24-97 (48-66)	-
Herb cover (%)	19.4 (24.3)	2-60 (7-54)	0-2 (0-1)
Shrub cover (%)	12.7 (12.7)	0.2-32 (0.2-32)	0-10 (1-5)
Tall shrub / low tree cover (%)	4.8 (4.8)	0.2-14 (0.2-14)	0-15 (0-5)
Overstory tree cover (%)	33.5 (23.0)	8-75 (14-38)	5-20 (5-15)

Local Environmental Description (All stands, OC stands)

Aspect: SW (13,0), Flat (7,1), NE (5,0), NW (5,0), S (1,1), SE (5,1)
Macrotopography: lower 1/3 of slope (1,1), lower to middle 1/3 of slope (1,0), bottom to lower 1/3 of slope (6,0), bottom (26,1), middle 1/3 of slope (2,1)
Microtopography: convex (2,0), flat (12,1), undulating (3,0), concave (19,2)
Parent material: granitic (9,0), gravelly alluvium (1,0), metamorphic (1,0), mixed alluvium (3,1), sandstone (1,1), sandy alluvium (8,0), silty alluvium (1,0)
Soil texture: unknown (1,0), silty loam (1,0), silt (1,0), sandy loam (20,0), sand (4,0), clay loam (5,1), loam (3,1)

Category	Average	Range
Elevation (ft)	797 (795)	49-2060 (640-1076)
Slope (degrees)	3 (2.0)	0-28 (0-4)
Large rock cover (%)	3.8 (0.3)	0-69 (0-1)
Small rock cover (%)	10.0 (1.0)	0-73 (0-3)
Bare ground cover (%)	14.2 (22.3)	0-86 (15-37)
Litter cover (%)	56.3 (72.0)	0-94 (54-82)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Platanus racemosa</i>	100 (100)	11.3 (14.7)	1 (1)	63 (35)
Tree	<i>Quercus agrifolia</i>	81 (100)	20.9 (9.1)	0.2 (6)	58 (12.2)
Tree	<i>Salix lasiolepis</i>	58 (67)	7.2 (5.1)	0.2 (0.2)	25 (10)
Tree	<i>Salix laevigata</i>	36 (33)	9.4 (2)	1 (2)	35 (2)
Shrub	<i>Toxicodendron diversilobum</i>	86 (67)	15.5 (8.1)	0.2 (0.2)	55 (16)
Shrub	<i>Baccharis salicifolia</i>	42 (67)	2.7 (1.1)	0.2 (0.2)	10 (2)
Shrub	<i>Rubus ursinus</i>	33 (33)	5.6 (14)	0.2 (14)	14 (14)
Shrub	<i>Sambucus nigra subsp. caerulea</i>	25 (33)	1.8 (0.2)	0.2 (0.2)	7 (0.2)
Herb	<i>Artemisia douglasiana</i>	56 (67)	3.8 (3.1)	0.2 (0.2)	12 (6)
Herb	* <i>Bromus diandrus</i>	50 (100)	14.6 (18.1)	0.2 (0.2)	52 (52)
Herb	<i>Vitis girdiana</i>	28 (-)	14.9 (-)	0.2 (-)	55 (-)
Herb	<i>Ambrosia psilostachya</i>	25 (-)	2.6 (-)	0.2 (-)	7 (-)
Herb	<i>Carex spissa</i>	25 (-)	2.4 (-)	0.2 (-)	10 (-)
Herb	<i>Nasturtium officinale</i>	25 (33)	0.8 (0.2)	0.2 (0.2)	2 (0.2)
Herb	* <i>Stipa miliacea var. miliacea</i>	25 (33)	1.7 (1)	0.2 (1)	4 (1)

***Platanus racemosa* Alliance**

***Platanus racemosa-Salix laevigata/Salix lasiolepis-Baccharis salicifolia* Association**

Samples Used To Describe Association (n= 9)

Rapid Assessment(s), WR and WSD stands: SCWP.004, RECA.016, SITT.038, CLNF.026, SITT.040/BPU 122139-354, SITT.010, SMER.065/River.07, SAAN.020
Rapid Assessment(s), OC stands (n=1): 1513EK05

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	49.4 (45.0)	20-78 (45-45)	-
Herb cover (%)	10.4 (9.0)	0-25 (9-9)	0-2 (0-0.5)
Shrub cover (%)	22.8 (10.0)	5-42 (10-10)	0.5-2 (1-2)
Tall shrub / low tree cover (%)	8.0 (8.0)	8-8 (8-8)	1-5 (2-5)
Overstory tree cover (%)	20.7 (31.0)	9-38 (31-31)	10-15 (10-15)

Local Environmental Description (All stands, OC stands)

Aspect: W (1,1), SW (6,0), Flat (1,0), SE (1,0)
Macrotopography: bottom (7,1), lower 1/3 of slope (2,0)
Microtopography: Concave (8,1), Flat (1,0)
Parent material: granitic (1,0), gravelly alluvium (1,0), mixed alluvium (2,0), sandstone (1,1), sandy alluvium (3,0), silty alluvium (1,0)
Soil texture: silty loam (1,0), sand (5,1), sandy loam (2,0)

Category	Average	Range
Elevation (ft)	1095 (804)	700-2146 (804-804)
Slope (degrees)	2 (2.0)	1-4 (2-2)
Large rock cover (%)	23.0 (-)	0-85 (-)
Small rock cover (%)	18.1 (-)	0-60 (-)
Bare ground cover (%)	8.3 (10.0)	0-20 (10-10)
Litter cover (%)	31.2 (82.0)	0-85 (82-82)

Stand Table

Category	Species Name	Con	Ave	Min	Max
Tree	<i>Platanus racemosa</i>	100 (100)	12.7 (32)	1 (32)	32 (32)
Tree	<i>Salix laevigata</i>	89 (100)	9 (6)	4 (6)	14 (6)
Tree	<i>Quercus agrifolia</i>	56 (100)	2.6 (2)	1 (2)	5 (2)
Tree	<i>Fraxinus velutina</i>	33 (-)	7.1 (-)	0.2 (-)	21 (-)
Shrub	<i>Baccharis salicifolia</i>	100 (100)	7.2 (2)	2 (2)	14 (2)
Shrub	<i>Salix lasiolepis</i>	78 (-)	10.9 (-)	2 (-)	23 (-)
Shrub	<i>Toxicodendron diversilobum</i>	56 (100)	2 (5)	1 (5)	5 (5)
Herb	<i>Amorpha fruticosa</i>	33 (-)	1.3 (-)	1 (-)	2 (-)
Herb	<i>Artemisia douglasiana</i>	33 (-)	1.7 (-)	1 (-)	3 (-)
Herb	<i>Typha domingensis</i>	33 (-)	3.7 (-)	1 (-)	5 (-)

***Pseudotsuga macrocarpa* Alliance**

***Pseudotsuga macrocarpa-Quercus agrifolia* Association**

Samples Used To Describe Association (n= 1)

Rapid Assessment(s), WR and WSD stands: None
 Rapid Assessment(s), OC stands (n=1): 1205EK01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	60.0 (60.0)	60-60 (60-60)	-
Herb cover (%)	- (-)	- (-)	- (-)
Shrub cover (%)	23.0 (23.0)	23-23 (23-23)	2-5 (2-5)
Tall shrub / low tree cover (%)	22.0 (22.0)	22-22 (22-22)	5-10 (5-10)
Overstory tree cover (%)	27.0 (27.0)	27-27 (27-27)	10-15 (10-15)

Local Environmental Description (All stands, OC stands)

Aspect: NW (1,1)
 Macrotopography: lower to middle 1/3 of slope (1,1)
 Microtopography: undulating (1,1)
 Parent material: metamorphic (1,1)
 Soil texture:

Category	Average	Range
Elevation (ft)	2110 (2110)	2110-2110 (2110-2110)
Slope (degrees)	40 (40.0)	40-40 (40-40)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	- (-)	- (-)
Bare ground cover (%)	- (-)	- (-)
Litter cover (%)	- (-)	- (-)

Stand Table

Category	Species Name	Con	Ave	Min	Max
Tree	<i>Acer macrophyllum</i>	100 (100)	2 (2)	2 (2)	2 (2)
Tree	<i>Pseudotsuga macrocarpa</i>	100 (100)	25 (25)	25 (25)	25 (25)
Tree	<i>Quercus agrifolia</i>	100 (100)	20 (20)	20 (20)	20 (20)
Shrub	<i>Cercocarpus betuloides var. betuloides</i>	100 (100)	3 (3)	3 (3)	3 (3)
Shrub	<i>Fraxinus dipetala</i>	100 (100)	2 (2)	2 (2)	2 (2)
Shrub	<i>Heteromeles arbutifolia</i>	100 (100)	1 (1)	1 (1)	1 (1)
Shrub	<i>Keckiella cordifolia</i>	100 (100)	1 (1)	1 (1)	1 (1)
Shrub	<i>Lonicera subspicata</i>	100 (100)	1 (1)	1 (1)	1 (1)
Shrub	<i>Rhamnus ilicifolia</i>	100 (100)	4 (4)	4 (4)	4 (4)
Shrub	<i>Sambucus nigra subsp. caerulea</i>	100 (100)	1 (1)	1 (1)	1 (1)
Shrub	<i>Toxicodendron diversilobum</i>	100 (100)	12 (12)	12 (12)	12 (12)
Herb	<i>Dryopteris arguta</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

***Pseudotsuga macrocarpa* Alliance**

***Pseudotsuga macrocarpa-Quercus chrysolepis* Association**

Samples Used To Describe Association (n= 5)

Rapid Assessment(s), WR and WSD stands: CLNF.100, CLNF.088, CLNF.087, CLNF.080

Rapid Assessment(s), OC stands (n=1): 1210EK01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	69.0 (72.0)	45-82 (72-72)	-
Herb cover (%)	7.5 (13.0)	0-15 (13-13)	0-0.5 (0-0.5)
Shrub cover (%)	22.2 (9.0)	2-50 (9-9)	0.5-2 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	1-5 (-)
Overstory tree cover (%)	54.8 (-)	35-68 (-)	15-20 (15-20)

Local Environmental Description (All stands, OC stands)

Aspect: N (1,1), NE (4,0)

Macrotopography: middle 1/3 of slope (2,0), upper 1/3 of slope (3,1)

Microtopography: Concave (5,1)

Parent material: granitic (4,0), metamorphic (1,1)

Soil texture: loam (1,0), sandy loam (3,0)

Category	Average	Range
Elevation (ft)	3821 (4052)	3009-4126 (4052-4052)
Slope (degrees)	41 (40.0)	38-50 (40-40)
Large rock cover (%)	9.8 (-)	0-25 (-)
Small rock cover (%)	9.0 (-)	0-25 (-)
Bare ground cover (%)	6.0 (8.0)	0-15 (8-8)
Litter cover (%)	50.0 (90.0)	0-90 (90-90)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Pseudotsuga macrocarpa</i>	100 (100)	31.4 (44)	20 (44)	44 (44)
Tree	<i>Quercus chrysolepis</i>	100 (100)	35.8 (23)	20.2 (23)	52 (23)
Tree	<i>Pinus coulteri</i>	40 (-)	2 (-)	1 (-)	3 (-)
Tree	<i>Quercus wislizeni</i>	40 (-)	9 (-)	8 (-)	10 (-)
Shrub	<i>Heteromeles arbutifolia</i>	80 (100)	1.1 (1)	0.2 (1)	2 (1)
Shrub	<i>Arctostaphylos glandulosa</i>	60 (-)	3.7 (-)	1 (-)	5 (-)
Shrub	<i>Keckiella cordifolia</i>	60 (100)	3.1 (8)	0.2 (8)	8 (8)
Shrub	<i>Dendromecon rigida</i>	40 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Eriogonum fasciculatum</i>	40 (-)	0.6 (-)	0.2 (-)	1 (-)
Herb	* <i>Bromus diandrus</i>	40 (100)	2.6 (0.2)	0.2 (0.2)	5 (0.2)

Quercus agrifolia Alliance

Quercus agrifolia Association

Samples Used To Describe Association (n= 9)

Rapid Assessment(s), WR and WSD stands: SAGE.023, SAAN.015, SAGE.044, BUCK.021, BLACK.034/97

Rapid Assessment(s), OC stands (n=4): 1066EK03, 1133EK01, 1173EK02, 1195EK02

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	60.6 (48.8)	40-82 (40-60)	-
Herb cover (%)	18.8 (21.0)	1-50 (1-35)	0-1 (0-0.5)
Shrub cover (%)	10.9 (5.0)	1-26 (1-10)	0-2 (0-2)
Tall shrub / low tree cover (%)	0.6 (0.6)	0.2-1 (0.2-1)	0-5 (0-2)
Overstory tree cover (%)	44.8 (32.7)	9-81 (9-48)	5-15 (5-15)

Local Environmental Description (All stands, OC stands)

Aspect: W (1,1), Variable (1,0), SW (2,2), NW (2,0), NE (1,0), Flat (1,0), N (1,1)

Macrotopography: bottom to lower 1/3 of slope (1,1), lower 1/3 of slope (6,2), lower to middle 1/3 of slope (1,1), upper 1/3 of slope (1,0)

Microtopography: Undulating (3,1), Concave (2,1), Flat (3,1)

Parent material: granitic (3,0), metamorphic (1,1), mix of two or more rock types (1,0), mixed alluvium (1,1), sandy alluvium (1,0)

Soil texture: sandy loam (5,1), clay loam (2,2), loam (1,0)

Category	Average	Range
Elevation (ft)	1671 (965)	636-3810 (636-1657)
Slope (degrees)	12 (8.8)	0-40 (1-15)
Large rock cover (%)	1.2 (0.3)	0-10 (0-1)
Small rock cover (%)	4.2 (0.5)	0-25 (0-2)
Bare ground cover (%)	19.8 (31.0)	0-52 (19-52)
Litter cover (%)	52.0 (66.3)	0-90 (45-80)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Quercus agrifolia</i>	100 (100)	40 (30.3)	7 (7)	80 (48.2)
Shrub	<i>Sambucus nigra subsp. caerulea</i>	33 (75)	0.5 (0.5)	0.2 (0.2)	1 (1)
Herb	* <i>Bromus diandrus</i>	33 (75)	13.4 (13.4)	0.2 (0.2)	25 (25)
Herb	* <i>Carduus pycnocephalus</i>	33 (75)	2.1 (2.1)	0.2 (0.2)	4 (4)

Quercus agrifolia Alliance

Quercus agrifolia/Artemisia californica Association

Samples Used To Describe Association (n= 6)

Rapid Assessment(s), WR and WSD stands: SDRP0268, SDRP0085, 1550MB01, SDRP0189, SDRP0482

Rapid Assessment(s), OC stands (n=1): 1499KH03

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	65.0 (23.0)	23-85 (23-23)	-
Herb cover (%)	27.2 (1.0)	1-50 (1-1)	0-1 (0-0.5)
Shrub cover (%)	15.0 (15.0)	15-15 (15-15)	0-2 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	0.5-1 (-)
Overstory tree cover (%)	27.2 (12.0)	10-45 (12-12)	2-20 (2-5)

Local Environmental Description (All stands, OC stands)

Aspect: NE (4,0), SE (1,0), SW (1,1)

Macrotopography: lower 1/3 of slope (2,0), lower to middle 1/3 of slope (1,0), bottom to lower 1/3 of slope (1,0), bottom (1,0), upper 1/3 of slope to ridgetop (1,1)

Microtopography: undulating (2,0), concave (2,0), flat (2,1)

Parent material: granitic (3,0), igneous (1,0)

Soil texture: unknown (1,1), clay loam (1,0), sandy loam (4,0)

Category	Average	Range
Elevation (ft)	571 (1401)	299-1401 (1401-1401)
Slope (degrees)	19 (26.0)	1-33 (26-26)
Large rock cover (%)	1.7 (-)	0-10 (-)
Small rock cover (%)	0.8 (-)	0-5 (-)
Bare ground cover (%)	18.3 (89.0)	0-89 (89-89)
Litter cover (%)	29.2 (10.0)	0-85 (10-10)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Quercus agrifolia</i>	100 (100)	20.7 (12)	4 (12)	46.2 (12)
Shrub	<i>Artemisia californica</i>	100 (100)	5.7 (0.2)	0.2 (0.2)	20 (0.2)
Shrub	<i>Malosma laurina</i>	83 (100)	3 (1)	0.2 (1)	5 (1)
Shrub	<i>Eriogonum fasciculatum</i>	67 (100)	3.8 (1)	1 (1)	7 (1)
Shrub	<i>Mimulus aurantiacus</i>	67 (100)	0.6 (0.2)	0.2 (0.2)	1 (0.2)
Shrub	<i>Salvia apiana</i>	67 (100)	2.8 (0.2)	0.2 (0.2)	7 (0.2)
Shrub	<i>Rhamnus crocea</i>	50 (-)	1 (-)	1 (-)	1 (-)
Shrub	<i>Acmispon glaber</i>	33 (100)	4.5 (7)	2 (7)	7 (7)
Shrub	<i>Keckiella antirrhinoides</i>	33 (-)	1.5 (-)	1 (-)	2 (-)
Shrub	<i>Rhamnus ilicifolia</i>	33 (-)	19.5 (-)	1 (-)	38 (-)
Shrub	<i>Toxicodendron diversilobum</i>	33 (-)	5.1 (-)	0.2 (-)	10 (-)
Herb	* <i>Bromus diandrus</i>	83 (-)	9.4 (-)	0.2 (-)	25 (-)
Herb	* <i>Bromus madritensis</i>	83 (-)	10.6 (-)	2 (-)	23 (-)
Herb	* <i>Bromus hordeaceus</i>	50 (-)	6 (-)	1 (-)	10 (-)
Herb	* <i>Hirschfeldia incana</i>	50 (-)	2.1 (-)	0.2 (-)	3 (-)
Herb	* <i>Centaurea melitensis</i>	33 (-)	3 (-)	2 (-)	4 (-)

Quercus agrifolia Alliance

Quercus agrifolia/Quercus (berberidifolia, xacutidens) Association

Samples Used To Describe Association (n= 8)

Rapid Assessment(s), WR and WSD stands: 0506RB24, 1362JD02, 0520DH04, 1693FS02, 0609AK01, 0609JJ01, 0423RB01

Rapid Assessment(s), OC stands (n=1): 1057EK03

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	45.5 (40.0)	38-66 (40-40)	-
Herb cover (%)	20.0 (10.0)	0.2-50 (10-10)	0-1 (0-0.5)
Shrub cover (%)	10.0 (10.0)	10-10 (10-10)	1-5 (1-2)
Tall shrub / low tree cover (%)	6.0 (6.0)	6-6 (6-6)	1-5 (2-5)
Overstory tree cover (%)	24.6 (15.0)	8-45 (15-15)	2-15 (2-5)

Local Environmental Description (All stands, OC stands)

Aspect: N (1,1), SE (2,0), SW (1,0), Flat (1,0), NW (2,0), NE (1,0)

Macrotopography: bottom to lower 1/3 of slope (1,0), lower 1/3 of slope (1,0), lower to middle 1/3 of slope (2,1), middle 1/3 of slope (2,0), middle to upper 1/3 of slope (1,0), upper 1/3 of slope (1,0)

Microtopography: concave (3,0), convex (1,1), flat (1,0), undulating (3,0)

Parent material: granitic (3,0), metamorphic (1,0), mixed alluvium (1,0), sandstone (1,1)

Soil texture: clay (1,0), clay loam (2,0), sandy loam (5,1)

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Category	Average	Range
Elevation (ft)	1468 (180)	180-2536 (180-180)
Slope (degrees)	19 (30.0)	2-34 (30-30)
Large rock cover (%)	12.2 (1.0)	0-53 (1-1)
Small rock cover (%)	8.5 (-)	0-22 (-)
Bare ground cover (%)	17.8 (37.0)	1-49 (37-37)
Litter cover (%)	59.8 (60.0)	10-90 (60-60)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Quercus agrifolia</i>	100 (100)	24.1 (15)	8 (15)	46 (15)
Shrub	<i>Toxicodendron diversilobum</i>	75 (100)	6.2 (3)	2 (3)	12 (3)
Shrub	<i>Quercus berberidifolia</i>	63 (100)	6.6 (7)	1 (7)	9 (7)
Shrub	<i>Heteromeles arbutifolia</i>	50 (100)	2.6 (1)	0.2 (1)	5 (1)
Shrub	<i>Lonicera subspicata</i>	50 (-)	2.6 (-)	0.2 (-)	8 (-)
Shrub	<i>Eriogonum fasciculatum</i>	38 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Malosma laurina</i>	38 (-)	2 (-)	1 (-)	4 (-)
Shrub	<i>Mimulus aurantiacus</i>	38 (100)	1.4 (2)	0.2 (2)	2 (2)
Shrub	<i>Quercus acutidens</i>	38 (-)	7 (-)	3 (-)	13 (-)
Shrub	<i>Sambucus nigra subsp. caerulea</i>	38 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Acmispon glaber</i>	25 (-)	0.6 (-)	0.2 (-)	1 (-)
Shrub	<i>Adenostoma fasciculatum</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Arctostaphylos glandulosa</i>	25 (-)	0.6 (-)	0.2 (-)	1 (-)
Shrub	<i>Artemisia californica</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Ceanothus tomentosus</i>	25 (-)	7.6 (-)	0.2 (-)	15 (-)
Shrub	<i>Eriophyllum confertiflorum var. confertiflorum</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Frangula californica</i>	25 (-)	4.5 (-)	4 (-)	5 (-)
Shrub	<i>Keckiella cordifolia</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Polygala cornuta var. fishiae</i>	25 (-)	1.1 (-)	0.2 (-)	2 (-)
Shrub	<i>Rhus ovata</i>	25 (-)	0.6 (-)	0.2 (-)	1 (-)
Herb	<i>*Bromus diandrus</i>	63 (100)	17 (0.2)	0.2 (0.2)	38 (0.2)
Herb	<i>*Bromus hordeaceus</i>	25 (-)	3 (-)	2 (-)	4 (-)
Herb	<i>*Bromus madritensis</i>	25 (-)	7.6 (-)	0.2 (-)	15 (-)
Herb	<i>*Carduus pycnocephalus</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Erodium botrys</i>	25 (-)	14 (-)	3 (-)	25 (-)
Herb	<i>Galium angustifolium</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Galium aparine</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Marah macrocarpus var. macrocarpus</i>	25 (-)	1.1 (-)	0.2 (-)	2 (-)
Herb	<i>Pseudognaphalium californicum</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

Quercus agrifolia Alliance
Quercus agrifolia/Salix lasiolepis Association

Samples Used To Describe Association (n= 4)

Rapid Assessment(s), WR and WSD stands: 1355MB02, 0308TK21, 1710JD02
 Rapid Assessment(s), OC stands (n=1): 1415EK01

Local Vegetation Description	All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)		65.0 (60.0)	48-77 (60-60)	-
Herb cover (%)		11.8 (19.0)	5-19 (19-19)	0-0.5 (0-0.5)
Shrub cover (%)		11.0 (11.0)	11-11 (11-11)	0.5-10 (1-2)
Tall shrub / low tree cover (%)		26.0 (26.0)	26-26 (26-26)	0-10 (5-10)
Overstory tree cover (%)		40.5 (23.0)	19-65 (23-23)	5-15 (10-15)

Local Environmental Description (All stands, OC stands)

Aspect: Flat (1,0), NE (1,0), SW (2,1)
 Macrotopography: bottom (4,1)
 Microtopography: concave (1,1), flat (3,0)
 Parent material: sandstone (1,1), sandy alluvium (1,0)
 Soil texture: clay (1,0), sandy loam (3,1)

Category	Average	Range
Elevation (ft)	369 (440)	108-810 (440-440)
Slope (degrees)	2 (4.0)	0-4 (4-4)
Large rock cover (%)	0.3 (1.0)	0-1 (1-1)
Small rock cover (%)	2.8 (2.0)	0-9 (2-2)
Bare ground cover (%)	21.8 (35.0)	4-35 (35-35)
Litter cover (%)	73.8 (60.0)	60-95 (60-60)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Salix lasiolepis</i>	100 (100)	14.8 (24)	7 (24)	24 (24)
Tree	<i>Quercus agrifolia</i>	75 (100)	30.7 (24)	16 (24)	52 (24)
Tree	* <i>Phoenix canariensis</i>	50 (-)	1.1 (-)	0.2 (-)	2 (-)
Tree	<i>Salix gooddingii</i>	50 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Tree	* <i>Nicotiana glauca</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Tree	<i>Platanus racemosa</i>	25 (100)	1 (1)	1 (1)	1 (1)
Tree	<i>Quercus agrifolia</i> var. <i>agrifolia</i>	25 (-)	60 (-)	60 (-)	60 (-)
Tree	<i>Salix laevigata</i>	25 (-)	17 (-)	17 (-)	17 (-)
Tree	* <i>Washingtonia robusta</i>	25 (-)	1 (-)	1 (-)	1 (-)
Shrub	<i>Toxicodendron diversilobum</i>	100 (100)	18.3 (10)	10 (10)	30 (10)
Shrub	<i>Baccharis pilularis</i>	50 (100)	1.6 (0.2)	0.2 (0.2)	3 (0.2)
Shrub	<i>Heteromeles arbutifolia</i>	50 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Sambucus nigra</i> subsp. <i>caerulea</i>	50 (-)	0.6 (-)	0.2 (-)	1 (-)
Shrub	<i>Baccharis salicifolia</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Cercocarpus minutiflorus</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Clematis ligusticifolia</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Eriogonum fasciculatum</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)

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Shrub	<i>Malosma laurina</i>	25 (100)	1 (1)	1 (1)	1 (1)
Shrub	<i>Rubus ursinus</i>	25 (100)	12 (12)	12 (12)	12 (12)
Herb	* <i>Brassica nigra</i>	75 (100)	0.5 (0.2)	0.2 (0.2)	1 (0.2)
Herb	* <i>Bromus diandrus</i>	75 (100)	2.7 (1)	1 (1)	5 (1)
Herb	<i>Ambrosia psilostachya</i>	50 (-)	1.1 (-)	0.2 (-)	2 (-)
Herb	<i>Artemisia palmeri</i>	50 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Bromus hordeaceus</i>	50 (-)	2.5 (-)	2 (-)	3 (-)
Herb	* <i>Carduus pycnocephalus</i>	50 (100)	4.1 (0.2)	0.2 (0.2)	8 (0.2)
Herb	* <i>Hypochaeris glabra</i>	50 (-)	0.6 (-)	0.2 (-)	1 (-)
Herb	* <i>Marrubium vulgare</i>	50 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Rumex crispus</i>	50 (100)	0.6 (0.2)	0.2 (0.2)	1 (0.2)
Herb	* <i>Anagallis arvensis</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Anemopsis californica</i>	25 (-)	2 (-)	2 (-)	2 (-)
Herb	<i>Artemisia douglasiana</i>	25 (100)	4 (4)	4 (4)	4 (4)
Herb	* <i>Avena fatua</i>	25 (-)	2 (-)	2 (-)	2 (-)
Herb	* <i>Brachypodium distachyon</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Carex triquetra</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Carpobrotus edulis</i>	25 (-)	2 (-)	2 (-)	2 (-)
Herb	* <i>Cortaderia selloana</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Dipsacus</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Distichlis spicata</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Elymus condensatus</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Epilobium brachycarpum</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Foeniculum vulgare</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Galium aparine</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	* <i>Geranium dissectum</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	* <i>Hirschfeldia incana</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Marah macrocarpus var. macrocarpus</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Medicago polymorpha</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Melica imperfecta</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Melilotus indicus</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Nasturtium officinale</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Phacelia</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Plantago major</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Polypodium californicum</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Pteridium aquilinum</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Sonchus oleraceus</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Stipa miliacea var. miliacea</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Urtica dioica</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Vitis girdiana</i>	25 (-)	10 (-)	10 (-)	10 (-)

Quercus agrifolia Alliance

Quercus agrifolia/Toxicodendron diversilobum/Grass Association

Samples Used To Describe Association (n= 52)

Rapid Assessment(s), WR and WSD stands: SMER.022/Scrub trail #1, 1811TK01, 0423AK03, 1350JD01, SRPL.003/422, 0324DHF6, 0421RB02, 0421TK02, 1202KH02, 0423TK01, 1202KH01, 1782MB02, 0422TK03, HEME.009, 1030MB01, 1708MM02, 0507DH03, OGPSMB02, SDG0110, 0504DH22, 1075FS01, 0422DH03, 0603RB03, SDRP0069, 0505TK01, SDRP0071, 0625JJ02, 0521DH02, 0504TK01, SDRP0134, SITT.022/450/BPU 3255-350, 0604JJ01

Rapid Assessment(s), OC stands (n=20): 1015EK06, 1019EK02, 1021EK01, 1048EK01, 1056EK03, 1069EK02, 1073EK01, 1110EK02, 1133EK03, 1172MA01, 1214KH01, 1237EK01, 1253MA01, 1289EK01, 1429EK01, 1449EK01, 1456EK01, 1463EK04, 1520MA01, ek3.8.3

Local Vegetation Description	Average	Range	Height (m)
Total vegetation cover (%)	58.0 (55.9)	29-88 (37-75)	-
Herb cover (%)	21.7 (16.0)	0.2-85 (0.2-50)	0-1 (0-1)
Shrub cover (%)	14.8 (13.8)	1-42 (1-42)	0-5 (0-5)
Tall shrub / low tree cover (%)	4.1 (4.1)	0.2-20 (0.2-20)	0-5 (0-5)
Overstory tree cover (%)	35.5 (37.8)	7-75 (7-65)	2-20 (2-15)

Local Environmental Description (All stands, OC stands)

Aspect: S (2,2), W (2,1), Variable (3,1), SE (9,3), NW (8,0), NE (9,1), N (4,4), Flat (5,2), E (2,2), SW (8,4)

Macrotopography: lower to middle 1/3 of slope (3,0), upper 1/3 of slope (1,0), middle to upper 1/3 of slope (3,2), lower 1/3 of slope (10,5), bottom to mid 1/3 of slope (1,0), bottom to lower 1/3 of slope (11,8), bottom (13,4), middle 1/3 of slope (9,1)

Microtopography: concave (24,10), flat (11,5), undulating (16,5)

Parent material: diorite (1,0), gabbro (1,0), granitic (12,1), gravelly alluvium (2,0), igneous (1,0), metamorphic (2,0), mixed alluvium (3,1), sandstone (15,15), sandy alluvium (6,0), sedimentary (1,0)

Soil texture: clay (1,1), silty loam (1,0), sandy loam (27,8), clay loam (8,3), loam (9,5), sand (1,0)

Category	Average	Range
Elevation (ft)	1011 (916)	135-3330 (459-3330)
Slope (degrees)	10 (7.8)	0-36 (0-35)
Large rock cover (%)	4.4 (-)	0-50 (-)
Small rock cover (%)	6.4 (1.7)	0-30 (0-15)
Bare ground cover (%)	16.3 (20.6)	0-46 (4-42)
Litter cover (%)	62.2 (75.4)	0-95 (55-94)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Quercus agrifolia</i>	79 (100)	33.1 (39.6)	4 (4)	71 (70)
Shrub	<i>Toxicodendron diversilobum</i>	98 (100)	8 (6.1)	0.2 (0.2)	35 (27)
Shrub	<i>Rhamnus ilicifolia</i>	42 (45)	3 (4)	0.2 (0.2)	10 (10)
Shrub	<i>Mimulus aurantiacus</i>	38 (20)	1.2 (0.2)	0.2 (0.2)	5 (0.2)
Shrub	<i>Heteromeles arbutifolia</i>	31 (45)	4.9 (5)	0.2 (0.2)	18 (18)
Shrub	<i>Malosma laurina</i>	31 (25)	3.2 (0.9)	0.2 (0.2)	18 (2)
Shrub	<i>Rhus integrifolia</i>	25 (55)	3.2 (3.7)	0.2 (0.2)	20 (20)
Herb	* <i>Bromus diandrus</i>	77 (85)	16.8 (11.8)	0.2 (0.2)	60 (35)
Herb	* <i>Carduus pycnocephalus</i>	38 (60)	2.5 (2.5)	0.2 (0.2)	15 (15)
Herb	<i>Galium aparine</i>	29 (45)	0.7 (0.3)	0.2 (0.2)	5 (1)
Herb	<i>Elymus condensatus</i>	27 (55)	0.5 (0.4)	0.2 (0.2)	2 (2)
Herb	<i>Melica imperfecta</i>	27 (30)	0.8 (0.3)	0.2 (0.2)	5 (1)
Herb	<i>Marah macrocarpus var. macrocarpus</i>	25 (-)	0.5 (-)	0.2 (-)	2 (-)

Quercus chrysolepis Alliance
Quercus chrysolepis Association

Samples Used To Describe Association (n= 15)

Rapid Assessment(s), WR and WSD stands: IDYL.030/1427, CAHUI.006/689, ANZA.123, PALM.010, CLNF.083, IDYL.064/BPU 5456-333, ANZA.132, IDYL.032/1166, ANZA.138, IDYL.066/81, LAFU.021/274
Rapid Assessment(s), OC stands (n=4): 1184JD01, 1209EK03, 1215JD01, 1240EK01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	70.1 (71.5)	53-86 (56-86)	-
Herb cover (%)	11.8 (1.5)	0-48 (1-2)	0-0.5 (0-0.5)
Shrub cover (%)	18.1 (17.5)	2-74 (8-27)	0-2 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	0.5-5 (-)
Overstory tree cover (%)	57.9 (59.0)	37-75 (48-70)	10-20 (10-20)

Local Environmental Description (All stands, OC stands)

Aspect: N (3,3), NE (8,1), NW (1,0), SW (3,0)
Macrotopography: bottom (1,0), middle 1/3 of slope (4,0), middle to upper 1/3 of slope (1,1), upper 1/3 of slope (9,3)
Microtopography: Flat (1,0), Undulating (9,3), convex (1,1), Concave (4,0)
Parent material: granitic (9,0), gravelly alluvium (1,1), igneous (1,0), metamorphic (2,1)
Soil texture: clay loam (1,1), sandy loam (14,3)

Category	Average	Range
Elevation (ft)	5080 (4485)	4026-6374 (4026-5295)
Slope (degrees)	24 (28.3)	3-40 (15-40)
Large rock cover (%)	7.0 (-)	0-25 (-)
Small rock cover (%)	10.1 (1.3)	0-30 (0-5)
Bare ground cover (%)	12.1 (14.0)	2-38 (2-38)
Litter cover (%)	67.1 (83.3)	35-98 (60-98)

Stand Table

Category	Species Name	Con	Ave	Min	Max
Tree	<i>Quercus chrysolepis</i>	100 (100)	53.5 (57)	7 (48)	82 (70)
Tree	<i>Quercus wislizeni</i>	67 (75)	4.7 (5.3)	0.2 (2)	10 (10)
Tree	<i>Pinus coulteri</i>	40 (25)	2.5 (2)	2 (2)	4 (2)
Shrub	<i>Ceanothus integerrimus</i>	27 (25)	5.1 (8)	0.2 (8)	9 (8)
Shrub	<i>Clematis lasiantha</i>	27 (100)	2.1 (2.1)	0.2 (0.2)	5 (5)
Shrub	<i>Lonicera subspicata</i>	27 (25)	0.8 (1)	0.2 (1)	1 (1)
Herb	<i>*Bromus tectorum</i>	47 (-)	7.6 (-)	0.2 (-)	18 (-)
Herb	<i>Galium angustifolium</i>	40 (50)	0.3 (0.2)	0.2 (0.2)	1 (0.2)
Herb	<i>Cryptantha intermedia</i>	33 (-)	2.4 (-)	0.2 (-)	7 (-)

Quercus chrysolepis Alliance
Quercus chrysolepis-Pseudotsuga macrocarpa Association

Samples Used To Describe Association (n= 6)

Rapid Assessment(s), WR and WSD stands: BLACK.016/858, CLNF.033, VAIL.011, IDYL.001
Rapid Assessment(s), OC stands (n=2): 1209EK01, 1230EK01

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Local Vegetation Description	All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)		70.2 (63.0)	54-93 (54-72)	-
Herb cover (%)		23.0 (4.0)	1-85 (4-4)	0-0.5 (0-0.5)
Shrub cover (%)		14.0 (19.0)	1-32 (6-32)	0-5 (1-5)
Tall shrub / low tree cover (%)		4.0 (4.0)	4-4 (4-4)	1-5 (2-5)
Overstory tree cover (%)		60.5 (54.5)	48-75 (51-58)	15-50 (15-50)

Local Environmental Description (All stands, OC stands)

Aspect: NW (1,0), SE (3,1), NE (1,0), N (1,1)

Macrotopography: middle 1/3 of slope (3,0), middle to upper 1/3 of slope (1,1), upper 1/3 of slope (2,1)

Microtopography: Convex (1,0), Undulating (2,1), concave (3,1)

Parent material: granitic (4,1), metamorphic (1,1)

Soil texture: loam (1,0), sand (1,1), sandy loam (1,0)

Category	Average	Range
Elevation (ft)	4243 (3980)	3825-4854 (3980-3980)
Slope (degrees)	26 (35.0)	11-36 (35-35)
Large rock cover (%)	9.3 (10.0)	0-30 (0-20)
Small rock cover (%)	8.5 (10.0)	0-20 (0-20)
Bare ground cover (%)	8.5 (10.5)	0-25 (9-12)
Litter cover (%)	54.5 (67.5)	0-88 (50-85)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Pseudotsuga macrocarpa</i>	100 (100)	5 (5)	2 (2)	10 (8)
Tree	<i>Quercus chrysolepis</i>	100 (100)	54.2 (46)	42 (42)	66 (50)
Tree	<i>Acer macrophyllum</i>	50 (100)	3.4 (2.1)	0.2 (0.2)	6 (4)
Tree	<i>Alnus rhombifolia</i>	33 (50)	3 (3)	3 (3)	3 (3)
Tree	<i>Platanus racemosa</i>	33 (50)	2.1 (0.2)	0.2 (0.2)	4 (0.2)
Tree	<i>Quercus wislizeni</i>	33 (50)	4 (4)	4 (4)	4 (4)
Tree	<i>Salix laevigata</i>	33 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Toxicodendron diversilobum</i>	50 (100)	3.4 (2.1)	0.2 (0.2)	6 (4)
Shrub	<i>Heteromeles arbutifolia</i>	33 (50)	1.6 (0.2)	0.2 (0.2)	3 (0.2)
Shrub	<i>Yucca whipplei</i>	33 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Dryopteris arguta</i>	50 (100)	0.5 (0.2)	0.2 (0.2)	1 (0.2)
Herb	<i>Melica imperfecta</i>	50 (50)	0.5 (0.2)	0.2 (0.2)	1 (0.2)
Herb	<i>Galium aparine</i>	33 (50)	1.6 (0.2)	0.2 (0.2)	3 (0.2)

Quercus wislizeni Alliance

Quercus wislizeni/Arctostaphylos glandulosa Provisional Association

Samples Used To Describe Association (n= 1)

Rapid Assessment(s), WR and WSD stands: None

Rapid Assessment(s), OC stands (n=1): 1275JD02

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Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	66.0 (66.0)	66-66 (66-66)	-
Herb cover (%)	- (-)	- (-)	- (-)
Shrub cover (%)	- (-)	- (-)	- (-)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: NE (1,1)

Macrotopography: middle to upper 1/3 of slope (1,1)

Microtopography:

Parent material:

Soil texture: sandy loam (1,1)

Category	Average	Range
Elevation (ft)	4459 (4459)	4459-4459 (4459-4459)
Slope (degrees)	15 (15.0)	15-15 (15-15)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	17.0 (17.0)	17-17 (17-17)
Bare ground cover (%)	36.0 (36.0)	36-36 (36-36)
Litter cover (%)	45.0 (45.0)	45-45 (45-45)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Quercus wislizeni</i>	100 (100)	28 (28)	28 (28)	28 (28)
Shrub	<i>Amorpha californica</i>	100 (100)	4 (4)	4 (4)	4 (4)
Shrub	<i>Arctostaphylos glandulosa</i>	100 (100)	4 (4)	4 (4)	4 (4)
Shrub	<i>Clematis lasiantha</i>	100 (100)	12 (12)	12 (12)	12 (12)
Shrub	<i>Eriophyllum confertiflorum</i>	100 (100)	4 (4)	4 (4)	4 (4)
Shrub	<i>Fraxinus dipetala</i>	100 (100)	5 (5)	5 (5)	5 (5)
Shrub	<i>Keckiella cordifolia</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Quercus berberidifolia</i>	100 (100)	2 (2)	2 (2)	2 (2)
Shrub	<i>Sambucus nigra subsp. caerulea</i>	100 (100)	1 (1)	1 (1)	1 (1)
Herb	<i>*Bromus tectorum</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

Salix gooddingii Alliance
Salix gooddingii Association

Samples Used To Describe Association (n= 22)

Rapid Assessment(s), WR and WSD stands: 1186KH01, PRAD.002/8/BPU 1168-31, SDRP0240, SDRP0322, PRAD.003/43/BPU 275531-40, 0623DH02, SDRP0317, SDRP0086, LAMA.020, 0506MJ21, SDRP0077, CORN.002/450, 1633FS01, 0708TK02, 1531EB02, 0709MG01, SDRP0239, 1744MM01, SDRP0238, 0503RB22, SDRP0245

Rapid Assessment(s), OC stands (n=1): 1041EK01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	63.8 (65.0)	32-98 (65-65)	-
Herb cover (%)	21.0 (17.0)	0.2-70 (17-17)	0-5 (0-0.5)
Shrub cover (%)	9.8 (1.0)	1-17 (1-1)	0-10 (0.5-1)
Tall shrub / low tree cover (%)	25.0 (25.0)	25-25 (25-25)	1-5 (2-5)
Overstory tree cover (%)	31.2 (20.0)	7-80 (20-20)	2-35 (10-15)

Local Environmental Description (All stands, OC stands)

Aspect: NE (1,0), NW (4,0), SW (6,1), (0,0), Flat (7,0), SE (3,0)

Macrotopography: middle 1/3 of slope (1,0), bottom (16,1), bottom to lower 1/3 of slope (1,0), lower 1/3 of slope (3,0)

Microtopography: concave (9,1), Flat (9,0), undulating (3,0)

Parent material: calcareous (1,0), clayey alluvium (1,0), granitic (1,0), gravelly alluvium (1,0), mixed alluvium (5,1), mixed sedimentary (1,0), sandy alluvium (4,0), silty alluvium (6,0)

Soil texture: sandy loam (8,0), sand (2,1), silt (1,0), loam (2,0), silty loam (1,0), clay loam (3,0), clay (2,0), muck (1,0)

Category	Average	Range
Elevation (ft)	366 (167)	0-1371 (167-167)
Slope (degrees)	1 (1.0)	0-5 (1-1)
Large rock cover (%)	0.4 (-)	0-8 (-)
Small rock cover (%)	0.7 (6.0)	0-7 (6-6)
Bare ground cover (%)	18.1 (42.0)	0-85 (42-42)
Litter cover (%)	35.5 (45.0)	0-95 (45-45)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Salix gooddingii</i>	100 (100)	28.3 (20)	7 (20)	85 (20)
Tree	<i>Salix lasiolepis</i>	32 (100)	31.7 (25)	7 (25)	65 (25)
Tree	<i>Salix laevigata</i>	27 (-)	9.7 (-)	0.2 (-)	35 (-)
Shrub	<i>Baccharis salicifolia</i>	68 (100)	4.4 (1)	0.2 (1)	18 (1)
Shrub	* <i>Tamarix</i>	36 (-)	6.7 (-)	0.2 (-)	30 (-)
Herb	* <i>Hirschfeldia incana</i>	45 (-)	1.3 (-)	0.2 (-)	5 (-)
Herb	* <i>Arundo donax</i>	27 (100)	0.9 (0.2)	0.2 (0.2)	2 (0.2)
Herb	<i>Distichlis spicata</i>	27 (-)	4.6 (-)	0.2 (-)	20 (-)

***Salix laevigata* Alliance**
***Salix laevigata* Association**

Samples Used To Describe Association (n= 16)

Rapid Assessment(s), WR and WSD stands: 1339EB01, SDG0072, 1737KH04, 1187KH01, 1744MB01, 1705KH01, 1782MB01, 1710KH02, 0603JJ01, 1177KH01, 1705MM01, 1737KH03

Rapid Assessment(s), OC stands (n=4): 1069EK03, 1128MA03, 1521EK01, 3.8jd06

Local Vegetation Description	All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)		57.8 (58.0)	23-85 (47-85)	-
Herb cover (%)		15.3 (20.3)	3-45 (14-33)	0-5 (0-1)
Shrub cover (%)		12.0 (12.0)	1-20 (1-20)	0-10 (1-5)
Tall shrub / low tree cover (%)		55.0 (55.0)	55-55 (55-55)	2-10 (5-10)
Overstory tree cover (%)		31.8 (50.0)	5-77 (23-77)	2-15 (2-15)

Local Environmental Description (All stands, OC stands)

Aspect: Flat (7,2), NE (2,0), NW (2,1), S (1,1), SE (1,0), SW (2,0), W (1,0)

Macrotopography: bottom (13,4), bottom to lower 1/3 of slope (3,0)

Microtopography: concave (9,2), flat (5,2), undulating (2,0)

Parent material: granitic (2,0), gravelly alluvium (1,0), mixed alluvium (1,0), sandstone (2,2), sandy alluvium (6,0), sedimentary (1,1)

Soil texture: clay loam (2,1), sand (10,2), sandy loam (4,1)

Category	Average	Range
Elevation (ft)	304 (465)	56-607 (384-607)
Slope (degrees)	1 (0.5)	0-3 (0-1)
Large rock cover (%)	0.4 (0.3)	0-6 (0-1)
Small rock cover (%)	13.0 (1.0)	0-70 (0-4)
Bare ground cover (%)	27.0 (19.3)	0-95 (1-32)
Litter cover (%)	53.9 (77.3)	2-99 (60-99)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Salix laevigata</i>	100 (100)	26.9 (38.3)	5 (12)	77 (77)
Tree	<i>Salix lasiolepis</i>	44 (-)	12.3 (-)	2 (-)	20 (-)
Tree	<i>Salix gooddingii</i>	31 (-)	1.4 (-)	0.2 (-)	4 (-)
Shrub	<i>Baccharis salicifolia</i>	63 (100)	9 (2.8)	0.2 (0.2)	40 (7)
Shrub	<i>Baccharis pilularis</i>	31 (-)	2.4 (-)	0.2 (-)	6 (-)
Shrub	<i>Toxicodendron diversilobum</i>	31 (50)	3.6 (4)	1 (1)	7 (7)
Shrub	<i>Rhus integrifolia</i>	25 (-)	6.1 (-)	0.2 (-)	12 (-)
Herb	<i>Artemisia douglasiana</i>	38 (50)	3.4 (6)	0.2 (2)	10 (10)
Herb	* <i>Helminthotheca echioides</i>	38 (25)	1.3 (0.2)	0.2 (0.2)	5 (0.2)
Herb	<i>Ambrosia psilostachya</i>	31 (25)	0.9 (2)	0.2 (2)	2 (2)
Herb	<i>Artemisia palmeri</i>	31 (-)	3 (-)	0.2 (-)	7 (-)
Herb	* <i>Raphanus sativus</i>	31 (25)	1.9 (3)	0.2 (3)	4 (3)
Herb	* <i>Bromus diandrus</i>	25 (50)	14.3 (7.6)	0.2 (0.2)	38 (15)
Herb	* <i>Conium maculatum</i>	25 (25)	1.4 (0.2)	0.2 (0.2)	4 (0.2)
Herb	* <i>Hirschfeldia incana</i>	25 (-)	2.6 (-)	0.2 (-)	5 (-)

Salix laevigata Alliance

Salix laevigata/Salix lasiolepis/Artemisia douglasiana Association

Samples Used To Describe Association (n= 13)

Rapid Assessment(s), WR and WSD stands: SAGE.067, ANZA.120/211, ANZA.008, SMER.048, CLNF.019, SAGE.064, SAGE.034, PALM.001, PALM.003, ANZA.037, IDYL.048/641/BPU#112664/41

Rapid Assessment(s), OC stands (n=2): 1300EK01, 1513EK04

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	64.3 (44.5)	32-90 (44-45)	-
Herb cover (%)	27.4 (10.5)	5-55 (10-11)	0-1 (0-0.5)
Shrub cover (%)	29.2 (5.0)	4-60 (4-6)	0.5-2 (1-2)
Tall shrub / low tree cover (%)	15.5 (15.5)	8-23 (8-23)	2-10 (2-5)
Overstory tree cover (%)	23.5 (19.5)	4-55 (10-29)	5-10 (5-10)

Local Environmental Description (All stands, OC stands)

Aspect: NW (3,0), SE (2,0), NE (1,0), N (1,1), SW (6,1)

Macrotopography: bottom (9,1), bottom to lower 1/3 of slope (1,1), lower 1/3 of slope (2,0), middle 1/3 of slope (1,0)

Microtopography: concave (12,2), Convex (1,0)

Parent material: granitic (4,0), mixed alluvium (6,1), sandstone (1,1), sandy alluvium (2,0)

Soil texture: sand (2,2), sandy loam (9,0), loam (1,0), clay loam (1,0)

Category	Average	Range
Elevation (ft)	2837 (840)	791-5027 (791-889)
Slope (degrees)	2 (2.0)	1-5 (2-2)
Large rock cover (%)	6.3 (-)	0-20 (-)
Small rock cover (%)	5.9 (11.0)	0-30 (4-18)
Bare ground cover (%)	13.2 (43.5)	0-45 (42-45)
Litter cover (%)	38.0 (41.5)	0-90 (35-48)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Salix laevigata</i>	100 (100)	20.7 (12)	4 (8)	50 (16)
Tree	<i>Salix lasiolepis</i>	100 (100)	21.4 (15.5)	4 (8)	60 (23)
Tree	<i>Platanus racemosa</i>	31 (100)	3 (2.5)	1 (2)	6 (3)
Tree	<i>Quercus agrifolia</i>	31 (50)	3 (10)	0.2 (10)	10 (10)
Shrub	<i>Salix lasiolepis</i>	100 (100)	21.4 (15.5)	4 (8)	60 (23)
Shrub	<i>Baccharis salicifolia</i>	46 (50)	7 (4)	0.2 (4)	15 (4)
Shrub	<i>Artemisia tridentata</i>	38 (-)	4.8 (-)	1 (-)	18 (-)
Shrub	<i>Toxicodendron diversilobum</i>	31 (100)	6 (2.5)	1 (1)	15 (4)
Herb	<i>Artemisia douglasiana</i>	62 (100)	8.6 (2.5)	1 (1)	40 (4)
Herb	<i>Ambrosia psilostachya</i>	46 (50)	4.9 (3)	0.2 (3)	18 (3)
Herb	<i>*Hirschfeldia incana</i>	46 (100)	0.9 (0.2)	0.2 (0.2)	2 (0.2)
Herb	<i>*Bromus diandrus</i>	38 (100)	3 (3)	1 (1)	5 (5)
Herb	<i>*Melilotus indicus</i>	31 (100)	3.6 (0.2)	0.2 (0.2)	10 (0.2)
Herb	Unknown	31 (-)	11.1 (-)	0.2 (-)	23 (-)
Herb	<i>Urtica dioica</i>	31 (50)	1.3 (1)	0.2 (1)	2 (1)

VEGETATION DOMINATED BY SHRUBS

***Acmispon glaber* Alliance**

***Acmispon glaber* Association**

Samples Used To Describe Association (n= 13)

Rapid Assessment(s), WR and WSD stands: SDRP0193, SDRP0192, SDG0104, SDG0084, SDG0086, 0519DH05, 0423RB02

Rapid Assessment(s), OC stands (n=6): 1197EK03, 1218EK02, 1237MA01, 1289MA01, 1425EK01, khunk01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	45.2 (53.7)	8-80 (40-80)	-
Herb cover (%)	12.9 (6.7)	0.2-49 (0.2-30)	0-0.5 (0-0.5)
Shrub cover (%)	47.5 (47.5)	35-80 (35-80)	0-5 (0.5-5)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: Flat (1,0), N (1,1), NE (2,1), NW (3,1), SE (1,1), SW (4,1), W (1,1)

Macrotopography: lower to middle 1/3 of slope (2,0), middle 1/3 of slope (5,2), middle 1/3 of slope to ridgetop (1,1), middle to upper 1/3 of slope (3,3), upper 1/3 of slope (1,0), upper 1/3 of slope to ridgetop (1,0)

Microtopography: convex (5,2), flat (1,1), undulating (7,3)

Parent material: granitic (4,0), igneous (2,0), metamorphic (1,0), sandstone (2,2)

Soil texture: clay (1,0), clay loam (2,2), loam (1,0), sandy loam (8,3), silty loam (1,1)

Category	Average	Range
Elevation (ft)	1061 (1016)	459-1680 (656-1450)
Slope (degrees)	23 (29.2)	0-40 (5-40)
Large rock cover (%)	0.3 (-)	0-3 (-)
Small rock cover (%)	2.9 (1.8)	0-14 (0-5)
Bare ground cover (%)	52.3 (29.6)	5-88 (5-50)
Litter cover (%)	31.4 (66.0)	0-90 (47-90)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Acmispon glaber</i>	100 (100)	24.6 (35.8)	4 (25)	72 (72)
Shrub	<i>Artemisia californica</i>	77 (100)	3.1 (4.9)	0.2 (0.2)	12 (12)
Shrub	<i>Eriogonum fasciculatum</i>	69 (50)	1.7 (2)	0.2 (1)	5 (4)
Shrub	<i>Malacothamnus fasciculatus</i>	46 (67)	0.9 (0.8)	0.2 (0.2)	2 (1)
Shrub	<i>Hazardia squarrosa</i>	38 (-)	2.4 (-)	1 (-)	6 (-)
Shrub	<i>Salvia apiana</i>	38 (17)	0.4 (0.2)	0.2 (0.2)	1 (0.2)
Shrub	<i>Salvia mellifera</i>	38 (67)	1.1 (1.3)	0.2 (0.2)	2 (2)
Shrub	<i>Rhus integrifolia</i>	31 (67)	0.4 (0.4)	0.2 (0.2)	1 (1)
Herb	* <i>Bromus madritensis</i>	62 (17)	8.5 (14)	1 (14)	23 (14)
Herb	* <i>Centaurea melitensis</i>	38 (33)	6.2 (4.1)	0.2 (0.2)	18 (8)
Herb	* <i>Hirschfeldia incana</i>	38 (50)	5.4 (2.7)	2 (2)	15 (4)

Adenostoma fasciculatum Alliance
Adenostoma fasciculatum-Acmispon glaber Association

Samples Used To Describe Association (n= 25)

Rapid Assessment(s), WR and WSD stands: 1277TK01, 1607MB02, SDG0124, 0603DH04, SDG0004, 0608JJ01, 1333EB01, 0506AK22, 0604JS01, SDRP0423, 0310TK22, 0608DH02, 0505JJ02, 0505DH01, 1393KG01, 0504RB01, 1484TK01, 0423DH01, 0506TK01, 1163MB01, 0423DH03, 0421TK04
Rapid Assessment(s), OC stands (n=3): 1343EK03, 1350EK01, 1456EK02

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	33.4 (34.3)	15-49 (32-38)	-
Herb cover (%)	14.3 (10.0)	2-38 (10-10)	0-2 (0-0.5)
Shrub cover (%)	32.7 (32.7)	32-33 (32-33)	0-2 (0.5-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: SE (2,0), SW (8,1), NW (6,1), NE (4,0), Flat (1,0), E (1,1), Variable (3,0)
Macrotopography: middle to upper 1/3 of slope (2,0), upper 1/3 of slope to ridgetop (4,0), ridge top (1,0), middle 1/3 of slope to ridgetop (2,0), lower to upper 1/3 of slope (4,0), entire slope (1,0), lower to middle 1/3 of slope (4,1), upper 1/3 of slope (2,1), lower 1/3 of slope to ridgetop (1,0), middle 1/3 of slope (3,1)
Microtopography: undulating (14,2), concave (4,1), convex (6,0), flat (1,0)
Parent material: gabbro (1,0), granitic (14,0), metamorphic (2,0), mixed alluvium (1,1), sandstone (3,2)
Soil texture: loam (1,0), sand (2,2), clay loam (2,0), clay (1,0), sandy loam (18,1)

Category	Average	Range
Elevation (ft)	1515 (1562)	223-2526 (1093-2034)
Slope (degrees)	16 (12.3)	0-35 (9-18)
Large rock cover (%)	8.8 (18.3)	0-40 (0-40)
Small rock cover (%)	31.1 (17.3)	0-69 (7-35)
Bare ground cover (%)	36.1 (39.7)	0-65 (23-58)
Litter cover (%)	17.8 (22.7)	0-71 (10-33)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Adenostoma fasciculatum</i>	100 (100)	11.7 (19)	3 (14)	24 (23)
Shrub	<i>Malosma laurina</i>	84 (67)	2.3 (0.2)	0.2 (0.2)	12 (0.2)
Shrub	<i>Acmispon glaber</i>	72 (-)	5.1 (-)	0.2 (-)	19 (-)
Shrub	<i>Helianthemum scoparium</i>	56 (100)	6.4 (6.7)	0.2 (2)	16 (10)
Shrub	<i>Hesperoyucca whipplei</i>	56 (100)	0.3 (0.2)	0.2 (0.2)	1 (0.2)
Shrub	<i>Eriogonum fasciculatum</i>	52 (-)	2.1 (-)	0.2 (-)	9 (-)
Shrub	<i>Eriophyllum confertiflorum var. confertiflorum</i>	44 (-)	0.9 (-)	0.2 (-)	2 (-)
Shrub	<i>Salvia apiana</i>	40 (-)	0.7 (-)	0.2 (-)	3 (-)
Shrub	<i>Xylococcus bicolor</i>	36 (-)	1.3 (-)	0.2 (-)	3 (-)
Shrub	<i>Artemisia californica</i>	32 (-)	0.9 (-)	0.2 (-)	6 (-)
Herb	* <i>Bromus madritensis</i>	52 (-)	3.3 (-)	0.2 (-)	8 (-)
Herb	* <i>Festuca myuros</i>	52 (-)	3.6 (-)	0.2 (-)	19 (-)
Herb	* <i>Centaurea melitensis</i>	44 (33)	2.5 (1)	0.2 (1)	15 (1)
Herb	* <i>Hypochaeris glabra</i>	40 (33)	2.2 (3)	0.2 (3)	13 (3)

Herb	* <i>Avena barbata</i>	28 (33)	1.3 (7)	0.2 (7)	7 (7)
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Adenostoma fasciculatum Alliance

Adenostoma fasciculatum-Ceanothus crassifolius Association

Samples Used To Describe Association (n= 10)

Rapid Assessment(s), WR and WSD stands: 0610RB02, 0610DH02, 0610AK03, 0609TK02, 0609RB04, 0506AK21
 Rapid Assessment(s), OC stands (n=4): 1176EK01, 1324EK01, 1324EK02, 1521EK02

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	47.0 (35.0)	28-65 (28-40)	-
Herb cover (%)	7.4 (1.8)	0.2-52 (0.2-5)	0-0.5 (0-0.5)
Shrub cover (%)	33.8 (33.8)	23-40 (23-40)	0.5-5 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	0.2 (-)	0.2-0.2 (-)	10-15 (-)

Local Environmental Description (All stands, OC stands)

Aspect: NW (1,0), SW (5,2), Flat (1,1), S (1,1), SE (2,0)

Macrotopography: middle to upper 1/3 of slope (2,0), upper 1/3 of slope (1,0), ridge top (1,0), lower to upper 1/3 of slope (1,0), lower to middle 1/3 of slope (1,0), middle 1/3 of slope (4,4)

Microtopography: undulating (6,2), convex (3,1), flat (1,1)

Parent material: granitic (2,0), metamorphic (4,0), sandstone (4,4)

Soil texture: clay loam (3,0), sand (1,1), sandy loam (4,1), silty loam (1,1)

Category	Average	Range
Elevation (ft)	1993 (1546)	656-2654 (656-2461)
Slope (degrees)	18 (15.8)	0-38 (0-38)
Large rock cover (%)	4.8 (3.3)	0-19 (0-10)
Small rock cover (%)	15.0 (9.3)	0-32 (0-16)
Bare ground cover (%)	26.9 (48.3)	6-51 (46-51)
Litter cover (%)	51.4 (37.3)	25-80 (25-52)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Adenostoma fasciculatum</i>	100 (100)	28 (20.8)	9 (9)	52 (26)
Shrub	<i>Ceanothus crassifolius</i>	100 (100)	9.5 (6)	0.2 (2)	25 (10)
Shrub	<i>Hesperoyucca whipplei</i>	100 (100)	0.7 (0.7)	0.2 (0.2)	2 (2)
Shrub	<i>Quercus berberidifolia</i>	70 (25)	3.8 (8)	0.2 (8)	8 (8)
Shrub	<i>Rhamnus ilicifolia</i>	60 (-)	1 (-)	0.2 (-)	3 (-)
Shrub	<i>Arctostaphylos glandulosa</i>	50 (25)	1.4 (0.2)	0.2 (0.2)	6 (0.2)
Shrub	<i>Eriophyllum confertiflorum</i> var. <i>confertiflorum</i>	50 (-)	0.9 (-)	0.2 (-)	3 (-)
Shrub	<i>Heteromeles arbutifolia</i>	50 (-)	1.1 (-)	0.2 (-)	2 (-)
Shrub	<i>Malosma laurina</i>	50 (75)	0.9 (1.1)	0.2 (0.2)	2 (2)
Shrub	<i>Salvia mellifera</i>	50 (75)	2.2 (1)	1 (1)	5 (1)
Shrub	<i>Mimulus aurantiacus</i>	40 (-)	1.2 (-)	0.2 (-)	4 (-)
Shrub	<i>Eriogonum fasciculatum</i>	30 (50)	0.5 (0.2)	0.2 (0.2)	1 (0.2)
Herb	<i>Stipa lepida</i>	30 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

Adenostoma fasciculatum-Arctostaphylos glandulosa Alliance
Adenostoma fasciculatum-Arctostaphylos glandulosa Association

Samples Used To Describe Association (n= 10)

Rapid Assessment(s), WR and WSD stands: CAHUI.003/606??, CLNF.113, CLNF.121/439, CLNF.097

Rapid Assessment(s), OC stands (n=6): 1180EK03, 1184JD02, 1209EK02, 1351EK02, 1351EK03, 1380EK01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	53.2 (50.3)	35-75 (35-75)	-
Herb cover (%)	0.1 (0.2)	0-0.2 (0.2-0.2)	0-0.5 (0-0.5)
Shrub cover (%)	48.4 (39.8)	35-75 (35-50)	0.5-2 (0.5-2)
Tall shrub / low tree cover (%)	3.0 (3.0)	3-3 (3-3)	0.5-2 (0.5-1)
Overstory tree cover (%)	2.1 (0.2)	0.2-6 (0.2-0.2)	2-5 (2-5)

Local Environmental Description (All stands, OC stands)

Aspect: N (2,2), NE (3,1), SE (5,3)

Macrotopography: upper 1/3 of slope (7,5), middle to upper 1/3 of slope (1,1), ridge top (2,0)

Microtopography: undulating (4,3), flat (1,1), concave (1,1), Convex (4,1)

Parent material: granitic (1,0), metamorphic (3,2), sandstone (3,3), sedimentary (2,0)

Soil texture: clay loam (3,2), loam (1,0), sand (2,2), sandy loam (4,2)

Category	Average	Range
Elevation (ft)	3788 (3476)	2211-4853 (2211-4495)
Slope (degrees)	26 (25.5)	15-38 (15-38)
Large rock cover (%)	3.2 (0.2)	0-15 (0-1)
Small rock cover (%)	26.1 (21.3)	5-70 (5-38)
Bare ground cover (%)	24.3 (26.2)	1-55 (2-48)
Litter cover (%)	43.3 (49.7)	2-90 (28-90)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Adenostoma fasciculatum</i>	100 (100)	26.6 (27.3)	8 (8)	49 (49)
Shrub	<i>Arctostaphylos glandulosa</i>	100 (100)	19.5 (11)	6 (6)	45 (16)
Shrub	<i>Dendromecon rigida</i>	50 (83)	0.7 (0.7)	0.2 (0.2)	2 (2)
Shrub	<i>Hesperoyucca whipplei</i>	40 (50)	0.4 (0.5)	0.2 (0.2)	1 (1)
Shrub	<i>Quercus berberidifolia</i>	40 (67)	5 (5)	3 (3)	8 (8)
Shrub	<i>Yucca whipplei</i>	40 (-)	0.4 (-)	0.2 (-)	1 (-)
Shrub	<i>Helianthemum scoparium</i>	30 (33)	6.7 (9.5)	1 (6)	13 (13)
Shrub	<i>Heteromeles arbutifolia</i>	30 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Mimulus aurantiacus</i>	30 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

Adenostoma fasciculatum-Arctostaphylos glandulosa Alliance

Adenostoma fasciculatum-Arctostaphylos glandulosa-Ceanothus crassifolius Association

Samples Used To Describe Association (n= 4)

Rapid Assessment(s), WR and WSD stands: VAIL.003/2047, CLNF.064, CLNF.007

Rapid Assessment(s), OC stands (n=1): 1294EK01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	60.5 (50.0)	50-72 (50-50)	-
Herb cover (%)	1.0 (-)	0-2 (-)	0-0.5 (-)
Shrub cover (%)	60.5 (50.0)	50-72 (50-50)	1-2 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	1-5 (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: NE (1,1), NW (2,0), Variable (1,0)

Macrotopography: middle 1/3 of slope (1,0), upper 1/3 of slope (3,1)

Microtopography: Convex (3,1), Undulating (1,0)

Parent material: granitic (2,0), sandstone (1,1), sedimentary (1,0)

Soil texture: clay loam (1,0), sandy loam (3,1)

Category	Average	Range
Elevation (ft)	3270 (3366)	2878-3650 (3366-3366)
Slope (degrees)	24 (20.0)	4-38 (20-20)
Large rock cover (%)	1.3 (-)	0-3 (-)
Small rock cover (%)	28.8 (15.0)	15-50 (15-15)
Bare ground cover (%)	27.0 (42.0)	1-45 (42-42)
Litter cover (%)	38.3 (40.0)	20-68 (40-40)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Quercus wislizeni</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Adenostoma fasciculatum</i>	100 (100)	18.8 (30)	9 (30)	30 (30)
Shrub	<i>Arctostaphylos glandulosa</i>	100 (100)	21.5 (12)	5 (12)	39 (12)
Shrub	<i>Ceanothus crassifolius</i>	100 (100)	21.3 (5)	5 (5)	38 (5)
Shrub	<i>Quercus berberidifolia</i>	50 (100)	4 (1)	1 (1)	7 (1)
Shrub	<i>Ceanothus leucodermis</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Dendromecon rigida</i>	25 (100)	1 (1)	1 (1)	1 (1)
Shrub	<i>Helianthemum scoparium</i>	25 (-)	5 (-)	5 (-)	5 (-)
Shrub	<i>Yucca whipplei</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Camissonia</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	<i>Galium angustifolium</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Plagiobothrys</i>	25 (-)	1 (-)	1 (-)	1 (-)

***Adenostoma fasciculatum-Arctostaphylos glauca* Alliance**
***Adenostoma fasciculatum-Arctostaphylos glauca* Association**

Samples Used To Describe Association (n= 7)

Rapid Assessment(s), WR and WSD stands: BLACK.038/1292, BLACK.054/BPU 107-87, BLACK.058/BPU 1037953-292, BLACK.049/475, BLACK.043/526, SAJAC.010/BPU 11809-121
Rapid Assessment(s), OC stands (n=1): 1180EK01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	65.4 (72.0)	55-75 (72-72)	-
Herb cover (%)	9.7 (0.2)	0.2-25 (0.2-0.2)	0-1 (0-0.5)
Shrub cover (%)	58.9 (72.0)	45-72 (72-72)	0.5-2 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	2-5 (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: NE (3,0), NW (2,0), SW (2,1)
Macrotopography: lower 1/3 of slope (1,0), middle 1/3 of slope (2,0), upper 1/3 of slope (3,0), upper 1/3 of slope to ridgetop (1,1)
Microtopography: Undulating (7,1)
Parent material: gneiss/biotite gneiss (1,0), granitic (2,0), metamorphic (1,1), sedimentary (2,0)
Soil texture: sand (1,0), sandy loam (4,0)

Category	Average	Range
Elevation (ft)	2721 (3596)	2224-3596 (3596-3596)
Slope (degrees)	25 (40.0)	14-40 (40-40)
Large rock cover (%)	1.6 (-)	0-8 (-)
Small rock cover (%)	12.4 (10.0)	0-38 (10-10)
Bare ground cover (%)	23.3 (17.0)	0-50 (17-17)
Litter cover (%)	44.7 (70.0)	0-75 (70-70)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Adenostoma fasciculatum</i>	100 (100)	27.3 (37)	10 (37)	45 (37)
Shrub	<i>Arctostaphylos glauca</i>	100 (100)	14.7 (15)	3 (15)	33 (15)
Shrub	<i>Rhus ovata</i>	100 (100)	6.3 (1)	1 (1)	11 (1)
Shrub	<i>Salvia mellifera</i>	71 (100)	2.6 (1)	0.2 (1)	5 (1)
Shrub	<i>Hesperoyucca whipplei</i>	57 (100)	0.4 (0.2)	0.2 (0.2)	1 (0.2)
Shrub	<i>Yucca whipplei</i>	57 (-)	0.4 (-)	0.2 (-)	1 (-)
Shrub	<i>Eriogonum fasciculatum</i>	43 (-)	1.7 (-)	0.2 (-)	3 (-)
Shrub	<i>Heteromeles arbutifolia</i>	43 (100)	1.4 (2)	0.2 (2)	2 (2)
Shrub	<i>Quercus berberidifolia</i>	43 (100)	1.7 (2)	1 (2)	2 (2)
Shrub	<i>Keckiella antirrhinoides</i>	29 (-)	3.5 (-)	3 (-)	4 (-)
Shrub	<i>Rhamnus crocea</i>	29 (-)	1.1 (-)	0.2 (-)	2 (-)
Herb	<i>*Bromus madritensis</i>	57 (-)	3 (-)	2 (-)	4 (-)
Herb	<i>Cryptantha muricata</i>	29 (-)	1.5 (-)	1 (-)	2 (-)
Herb	<i>Eucrypta chrysanthemifolia</i>	29 (-)	1.5 (-)	1 (-)	2 (-)
Herb	<i>Pterostegia drymarioides</i>	29 (-)	7.5 (-)	7 (-)	8 (-)

***Adenostoma fasciculatum-Salvia mellifera* Alliance**
***Adenostoma fasciculatum-Salvia mellifera* Association**

Samples Used To Describe Association (n= 9)

Rapid Assessment(s), WR and WSD stands: SAGE.050, SAGE.056, SATI.010

Rapid Assessment(s), OC stands (n=6): 1019EK01, 1024EK01, 1092EK05, 1229EK02, 1343EK02, 1351EK01

Local Vegetation Description	All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)		45.4 (39.5)	35-64 (35-50)	-
Herb cover (%)		0.7 (0.6)	0-2 (0.2-2)	0-0.5 (0-0.5)
Shrub cover (%)		45.0 (38.8)	35-65 (35-48)	0.5-2 (0.5-2)
Tall shrub / low tree cover (%)		- (-)	- (-)	1-5 (-)
Overstory tree cover (%)		- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: N (1,1), NE (1,0), SE (4,3), SW (1,0), Variable (1,1), W (1,1)

Macrotopography: lower 1/3 of slope (2,1), middle 1/3 of slope (2,2), middle to upper 1/3 of slope (1,1), upper 1/3 of slope (4,2)

Microtopography: Concave (3,1), flat (3,3), undulating (3,2)

Parent material: granitic (1,0), mixed igneous (1,0), sandstone (6,6), sedimentary (1,0)

Soil texture: loam (3,1), sandy loam (6,5)

Category	Average	Range
Elevation (ft)	1568 (1333)	623-2457 (623-2457)
Slope (degrees)	18 (20.3)	5-40 (5-40)
Large rock cover (%)	0.2 (0.3)	0-2 (0-2)
Small rock cover (%)	6.0 (8.2)	0-25 (0-25)
Bare ground cover (%)	36.2 (48.5)	0-66 (29-66)
Litter cover (%)	32.6 (40.5)	0-68 (5-68)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Adenostoma fasciculatum</i>	100 (100)	31.1 (30.3)	24 (24)	48 (48)
Shrub	<i>Salvia mellifera</i>	100 (100)	11.8 (4)	2 (2)	30 (6)
Shrub	<i>Hesperoyucca whipplei</i>	56 (50)	0.4 (0.5)	0.2 (0.2)	1 (1)
Shrub	<i>Malosma laurina</i>	56 (83)	0.5 (0.5)	0.2 (0.2)	1 (1)
Shrub	<i>Yucca whipplei</i>	56 (-)	0.4 (-)	0.2 (-)	1 (-)
Shrub	<i>Helianthemum scoparium</i>	44 (67)	1.1 (1.1)	0.2 (0.2)	3 (3)
Shrub	<i>Rhus integrifolia</i>	44 (67)	1.6 (1.6)	0.2 (0.2)	3 (3)
Shrub	<i>Eriodictyon crassifolium</i>	33 (33)	2.1 (3)	0.2 (2)	4 (4)

***Adenostoma fasciculatum-Salvia mellifera* Alliance**
***Adenostoma fasciculatum-Salvia mellifera-Ceanothus crassifolius* Association**

Samples Used To Describe Association (n= 9)

Rapid Assessment(s), WR and WSD stands: SMER.033/scrub1.02, SITT.013, RECA.007, RECA.018, CLNF.117/221, SAGE.070, MURR.007, VAIL.008/1809

Rapid Assessment(s), OC stands (n=1): 1161MA01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	63.0 (72.0)	38-85 (72-72)	-
Herb cover (%)	17.1 (3.0)	0.2-75 (3-3)	0-1 (0.5-1)
Shrub cover (%)	52.7 (72.0)	35-72 (72-72)	0.5-2 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	1-5 (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: Variable (1,0), NE (5,0), SE (2,1), SW (1,0)

Macrotopography: middle to upper 1/3 of slope (1,1), upper 1/3 of slope (5,0), middle 1/3 of slope (1,0), lower 1/3 of slope (1,0), bottom (1,0)

Microtopography: Flat (1,0), Undulating (8,1)

Parent material: conglomerate (1,0), granitic (7,1), mix of two or more rock types (1,0)

Soil texture: loam (2,0), sandy loam (5,0), clay loam (2,1)

Category	Average	Range
Elevation (ft)	2272 (2628)	828-2901 (2628-2628)
Slope (degrees)	19 (12.0)	10-32 (12-12)
Large rock cover (%)	9.8 (-)	0-30 (-)
Small rock cover (%)	21.1 (25.0)	0-55 (25-25)
Bare ground cover (%)	27.8 (25.0)	0-60 (25-25)
Litter cover (%)	27.1 (48.0)	0-48 (48-48)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Adenostoma fasciculatum</i>	100 (100)	27.2 (55)	14 (55)	55 (55)
Shrub	<i>Ceanothus crassifolius</i>	100 (100)	4.5 (2)	0.2 (2)	18 (2)
Shrub	<i>Salvia mellifera</i>	100 (100)	17.9 (10)	10 (10)	30 (10)
Shrub	<i>Hesperoyucca whipplei</i>	56 (100)	0.5 (1)	0.2 (1)	1 (1)
Shrub	<i>Yucca whipplei</i>	56 (-)	0.5 (-)	0.2 (-)	1 (-)
Shrub	<i>Eriogonum fasciculatum</i>	44 (100)	5.5 (0.2)	3 (0.2)	10 (0.2)
Shrub	<i>Rhus ovata</i>	44 (100)	0.4 (0.2)	0.2 (0.2)	1 (0.2)
Shrub	<i>Helianthemum scoparium</i>	33 (-)	2.4 (-)	0.2 (-)	4 (-)
Herb	<i>*Bromus madritensis</i>	67 (100)	5 (1)	1 (1)	15 (1)
Shrub	<i>Cryptantha intermedia</i>	44 (-)	2.3 (-)	0.2 (-)	5 (-)
Shrub	<i>Dichelostemma capitatum</i>	33 (-)	0.2 (-)	0.2 (-)	0.2 (-)

Arctostaphylos glandulosa Alliance
Arctostaphylos glandulosa Association

Samples Used To Describe Association (n= 3)

Rapid Assessment(s), WR and WSD stands: 1827MM02
 Rapid Assessment(s), OC stands (n=2): 1180EK02, 1209JD01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	68.3 (70.0)	55-85 (55-85)	-
Herb cover (%)	1.0 (-)	1-1 (-)	0-0.5 (-)
Shrub cover (%)	50.0 (50.0)	50-50 (50-50)	1-5 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	0-0.5 (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: N (1,1), NW (2,1)
 Macrotopography: upper 1/3 of slope (3,2)
 Microtopography: concave (1,1), convex (1,1), flat (1,0)
 Parent material: metamorphic (1,1)
 Soil texture: clay loam (2,1), sandy loam (1,1)

Category	Average	Range
Elevation (ft)	3592 (4057)	2661-4085 (4029-4085)
Slope (degrees)	20 (22.5)	15-30 (15-30)
Large rock cover (%)	5.0 (-)	0-15 (-)
Small rock cover (%)	25.0 (15.0)	10-45 (10-20)
Bare ground cover (%)	10.0 (15.0)	0-17 (13-17)
Litter cover (%)	58.3 (67.5)	40-70 (65-70)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Quercus wislizeni</i>	67 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Tree	<i>Callitropsis forbesii</i>	33 (-)	1 (-)	1 (-)	1 (-)
Tree	<i>Pinus coulteri</i>	33 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Adenostoma fasciculatum</i>	67 (100)	3.6 (3.6)	0.2 (0.2)	7 (7)
Shrub	<i>Arctostaphylos glandulosa</i>	67 (100)	61.5 (61.5)	53 (53)	70 (70)
Shrub	<i>Garrya flavescens</i>	67 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Quercus berberidifolia</i>	67 (100)	1.1 (1.1)	0.2 (0.2)	2 (2)
Shrub	<i>Rhus ovata</i>	67 (50)	1.1 (0.2)	0.2 (0.2)	2 (0.2)
Shrub	<i>Acmispon glaber var. glaber</i>	33 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Arctostaphylos glandulosa subsp. glandulosa</i>	33 (-)	20 (-)	20 (-)	20 (-)
Shrub	<i>Ceanothus crassifolius</i>	33 (50)	2 (2)	2 (2)	2 (2)
Shrub	<i>Ceanothus oliganthus</i>	33 (50)	2 (2)	2 (2)	2 (2)
Shrub	<i>Ceanothus tomentosus</i>	33 (-)	30 (-)	30 (-)	30 (-)
Shrub	<i>Comarostaphylys diversifolia subsp. diversifolia</i>	33 (-)	25 (-)	25 (-)	25 (-)
Shrub	<i>Dendromecon rigida</i>	33 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Ericameria cuneata</i>	33 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Eriogonum fasciculatum</i>	33 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

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Shrub	<i>Eriophyllum confertiflorum</i> var. <i>confertiflorum</i>	33 (-)	1 (-)	1 (-)	1 (-)
Shrub	<i>Hazardia squarrosa</i> var. <i>grindelioides</i>	33 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Helianthemum scoparium</i>	33 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Hesperoyucca whipplei</i>	33 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Lonicera subspicata</i> var. <i>denudata</i>	33 (-)	2 (-)	2 (-)	2 (-)
Shrub	<i>Mimulus aurantiacus</i>	33 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Quercus</i>	33 (-)	10 (-)	10 (-)	10 (-)
Shrub	<i>Rhamnus ilicifolia</i>	33 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Salvia mellifera</i>	33 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Galium angustifolium</i>	33 (-)	0.2 (-)	0.2 (-)	0.2 (-)

Artemisia californica Alliance
Artemisia californica Association

Samples Used To Describe Association (n= 33)

Rapid Assessment(s), WR and WSD stands: 0708AK02, 1701JD01, 0625DH01, 1705JD02, 1634JD02, 0707RB03, SDRP0236, 1627MB02, SDRP0087, SDRP0280, SDRP0139, SDRP0138, 0709MG03, 0709DH01

Rapid Assessment(s), OC stands (n=19): 1003EK04, 1004EK01, 1015EK02, 1047EK03, 1093EK01, 1114EK01, 1137EK01, 1187EK02, 1204EK01, 1223EK01, 1366EK01, 1408EK01, 1419EK01, 1419EK02, 1472EK03, 1478EK01, 1494EK02, a1069EK01, ek3.8.1

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	48.2 (50.7)	25-70 (35-70)	-
Herb cover (%)	12.0 (11.8)	0.2-45 (1-45)	0-2 (0-1)
Shrub cover (%)	43.6 (43.6)	20-65 (20-65)	0-2 (0.5-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: E (3,3), SE (5,2), W (1,1), Variable (2,2), SW (6,3), NW (6,2), NE (6,2), N (1,1), S (3,3)

Macrotopography: middle to upper 1/3 of slope (7,4), upper 1/3 of slope to ridgetop (1,1), upper 1/3 of slope (9,8), entire slope (1,0), ridge top (1,0), middle 1/3 of slope (4,4), lower to upper 1/3 of slope (1,0), lower 1/3 of slope (2,0), lower to middle 1/3 of slope (3,1), middle 1/3 of slope to ridgetop (3,0)

Microtopography: flat (9,5), convex (7,5), concave (5,3), undulating (12,6)

Parent material: granitic (3,0), metamorphic (2,0), sandstone (20,17), sedimentary (1,0), semi-schist (1,1)

Soil texture: sandy loam (12,6), sand (2,2), clay (2,1), clay loam (11,7), silt (1,0), loam (2,1)

Category	Average	Range
Elevation (ft)	530 (630)	0-1404 (75-1404)
Slope (degrees)	15 (16.7)	1-40 (1-40)
Large rock cover (%)	0.2 (0.1)	0-5 (0-1)
Small rock cover (%)	8.6 (5.7)	0-55 (0-55)
Bare ground cover (%)	39.9 (43.3)	0-74 (17-62)
Litter cover (%)	35.9 (48.8)	0-75 (25-70)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Artemisia californica</i>	100 (100)	31.2 (34.2)	10 (10)	55 (55)
Shrub	<i>Eriogonum fasciculatum</i>	64 (58)	2.2 (2.7)	0.2 (0.2)	11 (11)
Shrub	<i>Rhus integrifolia</i>	61 (68)	3.2 (2.8)	0.2 (0.2)	17 (10)
Shrub	<i>Baccharis pilularis</i>	55 (68)	2.7 (2.4)	0.2 (0.2)	11 (10)
Shrub	<i>Malosma laurina</i>	42 (37)	3.8 (4)	0.2 (0.2)	12 (12)
Shrub	<i>Mimulus aurantiacus</i>	42 (53)	0.6 (0.7)	0.2 (0.2)	2 (2)
Shrub	<i>Acmispon glaber</i>	36 (37)	1.7 (2.7)	0.2 (0.2)	15 (15)
Shrub	<i>Opuntia littoralis</i>	36 (47)	0.7 (0.4)	0.2 (0.2)	4 (1)
Herb	<i>Pseudognaphalium californicum</i>	48 (58)	0.4 (0.4)	0.2 (0.2)	1 (1)
Herb	* <i>Bromus madritensis</i>	36 (26)	3.9 (0.5)	0.2 (0.2)	35 (1)
Herb	* <i>Brassica nigra</i>	33 (53)	0.9 (0.5)	0.2 (0.2)	5 (2)
Herb	* <i>Centaurea melitensis</i>	30 (37)	2.4 (1.9)	0.2 (0.2)	10 (10)

Artemisia californica Alliance

Artemisia californica-Eriogonum fasciculatum-Opuntia littoralis Provisional Association Association

Samples Used To Describe Association (n= 18)

Rapid Assessment(s), WR and WSD stands: None

Rapid Assessment(s), OC stands (n=18): 1017EK01, 1032EK02, 1056EK07, 1057EK04, 1064EK01, 1066EK01, 1066EK02, 1066EK06, 1128EK02, 1128EK03, 1128EK04, 1197EK02, 1344EK01, 1410EK01, 1450EK03, 1463EK01, 1513EK01, 3.8.2

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	42.3 (42.3)	31-60 (31-60)	-
Herb cover (%)	4.4 (4.4)	0.2-18 (0.2-18)	0-0.5 (0-0.5)
Shrub cover (%)	39.7 (39.7)	25-60 (25-60)	0.5-2 (0.5-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: NE (1,1), S (7,7), SE (8,8), SW (1,1), W (1,1)

Macrotopography: lower 1/3 of slope (1,1), lower to middle 1/3 of slope (1,1), middle 1/3 of slope (5,5), middle to upper 1/3 of slope (6,6), upper 1/3 of slope (3,3), upper 1/3 of slope to ridgetop (2,2)

Microtopography: convex (2,2), flat (4,4), concave (3,3), undulating (9,9)

Parent material: mixed alluvium (3,3), sandstone (11,11)

Soil texture: clay loam (2,2), silty loam (1,1), sandy loam (10,10), loam (1,1), clay (1,1), sand (2,2)

Category	Average	Range
Elevation (ft)	693 (693)	148-1027 (148-1027)
Slope (degrees)	22 (21.9)	3-50 (3-50)
Large rock cover (%)	0.8 (0.8)	0-5 (0-5)
Small rock cover (%)	9.4 (9.4)	0-42 (0-42)
Bare ground cover (%)	50.6 (50.6)	31-63 (31-63)
Litter cover (%)	37.1 (37.1)	15-55 (15-55)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Artemisia californica</i>	100 (100)	19 (19)	1 (1)	37 (37)
Shrub	<i>Eriogonum fasciculatum</i>	100 (100)	7.1 (7.1)	0.2 (0.2)	20 (20)
Shrub	<i>Opuntia littoralis</i>	100 (100)	7.2 (7.2)	1 (1)	20 (20)
Shrub	<i>Malosma laurina</i>	83 (83)	1 (1)	0.2 (0.2)	5 (5)
Shrub	<i>Acmispon glaber</i>	78 (78)	2.3 (2.3)	0.2 (0.2)	12 (12)
Shrub	<i>Rhus integrifolia</i>	72 (72)	2 (2)	0.2 (0.2)	7 (7)
Shrub	<i>Cuscuta occidentalis</i>	50 (50)	0.4 (0.4)	0.2 (0.2)	1 (1)
Shrub	<i>Mimulus aurantiacus</i>	50 (50)	1.4 (1.4)	0.2 (0.2)	7 (7)
Shrub	<i>Salvia mellifera</i>	33 (33)	0.5 (0.5)	0.2 (0.2)	2 (2)
Shrub	<i>Baccharis pilularis</i>	28 (28)	0.8 (0.8)	0.2 (0.2)	3 (3)
Shrub	<i>Brickellia californica</i>	28 (28)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Cylindropuntia prolifera</i>	28 (28)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Rhamnus ilicifolia</i>	28 (28)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Sambucus nigra subsp. caerulea</i>	28 (28)	0.5 (0.5)	0.2 (0.2)	1 (1)
Herb	<i>Pseudognaphalium californicum</i>	56 (56)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus madritensis</i>	44 (44)	0.8 (0.8)	0.2 (0.2)	3 (3)
Herb	<i>Stipa pulchra</i>	39 (39)	0.3 (0.3)	0.2 (0.2)	1 (1)
Herb	* <i>Centaurea melitensis</i>	33 (33)	1.6 (1.6)	0.2 (0.2)	8 (8)
Herb	<i>Dudleya pulverulenta</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Avena barbata</i>	28 (28)	0.7 (0.7)	0.2 (0.2)	1 (1)
Herb	<i>Scrophularia californica</i>	28 (28)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

Artemisia californica Alliance

Artemisia californica-Mimulus aurantiacus-Elymus condensatus Provisional Association Association

Samples Used To Describe Association (n= 11)

Rapid Assessment(s), WR and WSD stands: None

Rapid Assessment(s), OC stands (n=11): 1010EK01, 1010EK03, 1041EK03, 1045JD01, 1045JD02, 1076MA02, 1079EK02, 1089EK02, 1137MA01, 1187EK07, 1413EK02

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	59.5 (59.5)	50-75 (50-75)	-
Herb cover (%)	6.1 (6.1)	1-20 (1-20)	0-2 (0-2)
Shrub cover (%)	54.4 (54.4)	42-60 (42-60)	0.5-5 (0.5-5)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: NW (3,3), E (1,1), N (1,1), NE (6,6)

Macrotopography: middle 1/3 of slope (2,2), middle to upper 1/3 of slope (1,1), lower to middle 1/3 of slope (3,3), upper 1/3 of slope (2,2), lower to upper 1/3 of slope (3,3)

Microtopography: convex (2,2), flat (3,3), undulating (5,5)

Parent material: sandstone (8,8), sedimentary (2,2)

Soil texture: clay loam (1,1), loam (2,2), sandy loam (2,2)

Category	Average	Range
Elevation (ft)	483 (483)	59-1240 (59-1240)
Slope (degrees)	30 (29.5)	15-52 (15-52)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	- (-)	- (-)
Bare ground cover (%)	33.2 (33.2)	5-70 (5-70)
Litter cover (%)	64.9 (64.9)	30-94 (30-94)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Artemisia californica</i>	100 (100)	21.5 (21.5)	4 (4)	40 (40)
Shrub	<i>Mimulus aurantiacus</i>	100 (100)	14.1 (14.1)	0.2 (0.2)	33 (33)
Shrub	<i>Malosma laurina</i>	82 (82)	15.2 (15.2)	0.2 (0.2)	45 (45)
Shrub	<i>Baccharis pilularis</i>	55 (55)	2.9 (2.9)	0.2 (0.2)	8 (8)
Shrub	<i>Sambucus nigra subsp. caerulea</i>	55 (64)	0.5 (0.5)	0.2 (0.2)	2 (2)
Shrub	<i>Heteromeles arbutifolia</i>	45 (45)	2.9 (2.9)	0.2 (0.2)	9 (9)
Shrub	<i>Rhus integrifolia</i>	45 (45)	4 (4)	0.2 (0.2)	8 (8)
Shrub	<i>Toxicodendron diversilobum</i>	36 (36)	6.8 (6.8)	3 (3)	12 (12)
Shrub	<i>Salvia mellifera</i>	27 (27)	2.3 (2.3)	2 (2)	3 (3)
Herb	<i>Elymus condensatus</i>	82 (82)	6.1 (6.1)	0.2 (0.2)	20 (20)
Herb	<i>Pseudognaphalium californicum</i>	27 (27)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

Artemisia californica Alliance

Artemisia californica-Nolina cismontana Provisional Association Association

Samples Used To Describe Association (n= 2)

Rapid Assessment(s), WR and WSD stands: None

Rapid Assessment(s), OC stands (n=2): 1187EK01, 1187EK06

Local Vegetation Description	Average	Range	Height (m)
Total vegetation cover (%)	45.0 (45.0)	43-47 (43-47)	-
Herb cover (%)	0.6 (0.6)	0.2-1 (0.2-1)	0-0.5 (0-0.5)
Shrub cover (%)	45.0 (45.0)	43-47 (43-47)	0.5-2 (0.5-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: SW (1,1), W (1,1)

Macrotopography: middle 1/3 of slope (1,1), middle to upper 1/3 of slope (1,1)

Microtopography: concave (2,2)

Parent material: sandstone (2,2)

Soil texture: sandy loam (1,1)

Category	Average	Range
Elevation (ft)	1163 (1163)	1161-1165 (1161-1165)
Slope (degrees)	38 (37.5)	35-40 (35-40)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	- (-)	- (-)
Bare ground cover (%)	51.5 (51.5)	45-58 (45-58)
Litter cover (%)	46.0 (46.0)	40-52 (40-52)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Artemisia californica</i>	100 (100)	20 (20)	17 (17)	23 (23)
Shrub	<i>Malosma laurina</i>	100 (100)	1 (1)	1 (1)	1 (1)
Shrub	<i>Nolina cismontana</i>	100 (100)	16 (16)	15 (15)	17 (17)
Shrub	<i>Rhus integrifolia</i>	100 (100)	2 (2)	1 (1)	3 (3)
Shrub	<i>Salvia mellifera</i>	100 (100)	4.5 (4.5)	4 (4)	5 (5)
Shrub	<i>Acmispon glaber</i>	50 (50)	1 (1)	1 (1)	1 (1)
Shrub	<i>Encelia californica</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Eriogonum fasciculatum</i>	50 (50)	1 (1)	1 (1)	1 (1)
Shrub	<i>Eriophyllum confertiflorum</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Hesperoyucca whipplei</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Mirabilis laevis</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Quercus berberidifolia</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Salvia apiana</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Centaurea melitensis</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Chamaesyce polycarpa</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Linanthus</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Pseudognaphalium biolettii</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

***Artemisia californica* Alliance**

***Artemisia californica*-*Salvia apiana* Association**

Samples Used To Describe Association (n= 17)

Rapid Assessment(s), WR and WSD stands: SMER.024, SMER.029/435/scrub1.06, SMER.011, SMER.018/Scrub1.20, SMER.027, SAAN.018, SMER.028, SMER.044/scrub1.19, WILD.013, SAAN.014, WILD.014, SAAN.013, SMER.003

Rapid Assessment(s), OC stands (n=4): 1187EK05, 1213EK01, 1340EK01, 1350EK02

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Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	58.9 (43.0)	38-90 (38-46)	-
Herb cover (%)	16.2 (7.8)	0-60 (2-15)	0-1 (0-0.5)
Shrub cover (%)	46.5 (37.5)	33-75 (36-38)	0.5-2 (0.5-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	0.5-15 (-)
Overstory tree cover (%)	1.0 (-)	1-1 (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: N (2,2), NE (2,1), NW (2,0), S (1,1), SE (7,0), SW (1,0), Variable (2,0)
Macrotopography: middle to upper 1/3 of slope (2,2), ridge top (3,0), middle 1/3 of slope (4,0), bottom (1,0), upper 1/3 of slope (7,2)
Microtopography: Convex (6,2), flat (1,1), Concave (3,0), undulating (7,1)
Parent material: granitic (8,0), igneous (1,0), metamorphic (1,1), mix of two or more rock types (1,0), sandstone (3,3), sedimentary (3,0)
Soil texture: clay loam (5,1), silt (1,0), clay (1,1), sandy loam (6,1), loam (3,0)

Category	Average	Range
Elevation (ft)	1381 (1596)	872-2315 (1316-1880)
Slope (degrees)	23 (28.3)	5-45 (16-45)
Large rock cover (%)	3.3 (-)	0-15 (-)
Small rock cover (%)	9.6 (4.0)	0-35 (0-12)
Bare ground cover (%)	31.6 (41.7)	0-58 (28-55)
Litter cover (%)	33.0 (51.3)	0-69 (30-69)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Artemisia californica</i>	100 (100)	25.7 (21)	11 (11)	55 (26)
Shrub	<i>Salvia apiana</i>	100 (100)	15.2 (7)	5 (5)	27 (8)
Shrub	<i>Malosma laurina</i>	76 (25)	3.7 (14)	0.2 (14)	14 (14)
Shrub	<i>Eriogonum fasciculatum</i>	71 (75)	1.7 (1.4)	0.2 (0.2)	4 (3)
Shrub	<i>Hesperoyucca whipplei</i>	35 (25)	1.1 (0.2)	0.2 (0.2)	4 (0.2)
Shrub	<i>Salvia mellifera</i>	35 (25)	2.4 (2)	0.2 (2)	5 (2)
Shrub	<i>Yucca whipplei</i>	35 (-)	1.1 (-)	0.2 (-)	4 (-)
Herb	* <i>Bromus madritensis</i>	47 (50)	8 (1)	0.2 (1)	30 (1)
Herb	* <i>Centaurea melitensis</i>	41 (25)	5.4 (2)	1 (2)	22 (2)
Herb	* <i>Hirschfeldia incana</i>	41 (25)	8 (0.2)	0.2 (0.2)	20 (0.2)
Herb	<i>Galium angustifolium</i>	29 (100)	2 (2.3)	0.2 (0.2)	5 (5)

***Artemisia californica-Eriogonum fasciculatum* Alliance**
***Artemisia californica-Eriogonum fasciculatum-Malosma laurina* Association**

Samples Used To Describe Association (n= 50)

Rapid Assessment(s), WR and WSD stands: SDG0038, SDRP0261, 1617MB01, 1548MB01, 1700PG02, SDG0115, SDG0046, SRPL.019/675, SDG0066, SDRP0320, 1035MB01, SDRP0467, CLNF.001, SDRP0190, SAAN.012, SDRP0319, 1353MB01, 1437KH01, SDG0010, SDG0012, 1549KH01, 0519TK01, SDG0065, SDRP0090, 0505RB03, SDG0016, 0521RB03, 0520RB03, SDRP0125, SDRP0132, 0521TK01, CLNF.068, SDG0019, SDG0070, SDRP0130, 0603DH01, SDG0037, SDG0007, SDG0022, SDG0026, SDG0029, SDG0036, 0610AK01

Rapid Assessment(s), OC stands (n=7): 1056EK06, 1062EK02, 1076EK01, 1108EK01, 1407EK01, 1414EK01, 1516EK01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	50.2 (49.7)	15-75 (38-70)	-
Herb cover (%)	18.5 (15.7)	0-55 (0.2-55)	0-1 (0-1)
Shrub cover (%)	39.2 (33.1)	10-59 (10-48)	0-5 (0.5-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	1-5 (-)
Overstory tree cover (%)	0.2 (-)	0.2-0.2 (-)	5-10 (-)

Local Environmental Description (All stands, OC stands)

Aspect: SE (15,0), W (2,1), SW (11,1), S (3,3), NW (6,1), NE (5,0), Flat (3,0), E (2,1), (0,0), Variable (2,0)

Macrotopography: middle 1/3 of slope (10,1), upper 1/3 of slope (6,3), middle to upper 1/3 of slope (6,1), lower to upper 1/3 of slope (5,0), lower to middle 1/3 of slope (7,1), lower 1/3 of slope (12,1), bottom (3,0), ridge top (1,0)

Microtopography: concave (5,0), convex (10,1), flat (6,2), undulating (28,4)

Parent material: gabbro (1,0), granitic (15,0), igneous (2,0), metamorphic (3,0), sandstone (7,7), sedimentary (2,0)

Soil texture: clay loam (12,1), loam (2,0), sandy loam (21,5), silty loam (1,1)

Category	Average	Range
Elevation (ft)	802 (478)	115-3062 (115-751)
Slope (degrees)	14 (8.0)	0-40 (3-32)
Large rock cover (%)	1.1 (0.7)	0-23 (0-5)
Small rock cover (%)	4.9 (1.9)	0-30 (0-8)
Bare ground cover (%)	25.5 (44.1)	0-85 (27-58)
Litter cover (%)	25.2 (50.9)	0-78 (35-70)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Artemisia californica</i>	100 (100)	15.9 (12.7)	0.2 (3)	38 (26)
Shrub	<i>Eriogonum fasciculatum</i>	94 (100)	10.4 (14.9)	0.2 (1)	33 (33)
Shrub	<i>Malosma laurina</i>	78 (71)	6.4 (0.7)	0.2 (0.2)	35 (2)
Shrub	<i>Salvia apiana</i>	40 (14)	1.2 (0.2)	0.2 (0.2)	5 (0.2)
Shrub	<i>Bahiopsis laciniata</i>	32 (-)	1.9 (-)	0.2 (-)	7 (-)
Shrub	<i>Acmispon glaber</i>	28 (71)	0.7 (1.2)	0.2 (0.2)	5 (5)
Herb	* <i>Bromus madritensis</i>	56 (43)	7.3 (4.1)	0.2 (0.2)	50 (10)
Herb	* <i>Centaurea melitensis</i>	54 (57)	3.5 (1.4)	0.2 (0.2)	25 (5)
Herb	* <i>Hirschfeldia incana</i>	30 (14)	2.8 (1)	0.2 (1)	25 (1)
Herb	* <i>Erodium</i>	28 (-)	9.5 (-)	0.2 (-)	40 (-)

Artemisia californica-Salvia mellifera Alliance
Artemisia californica-Salvia mellifera Association

Samples Used To Describe Association (n= 52)

Rapid Assessment(s), WR and WSD stands: SDRP0075, 0625JJ01, 1769JD01, 0709RB03, 0709DH02, 0708JS02, 0708DH04, 0707DH04, 1710KH05, 0706AK01, 1769KH01, SDRP0271, 1710JD05, SDRP0062, 1470JD01, 1202JD01, 1737JD02, 1710KH03, SDRP0278, 0625RB03, 1336FS01, 1710JD11, SDRP0272, 0624AK01, 0623RB05, 1737KH02, SDG0113, 1513KH01, SDRP0142, 1710KH01, SDRP0277, SDRP0353, SDRP0354, SDRP0275, 1737JD06, SDRP0276, SDRP0402, 1698FS01, SDRP0403, 0623RB02

Rapid Assessment(s), OC stands (n=12): 1015EK05, 1047EK01, 1047EK04, 1056EK05, 1056EK08, 1088EK05, 1173EK01, 1413EK03, 1465MA01, 1520MA02, 1524EK01, 3.8jd01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	51.9 (52.8)	15-92 (39-85)	-
Herb cover (%)	10.0 (8.6)	0.2-40 (0.2-28)	0-2 (0-0.5)
Shrub cover (%)	46.6 (46.6)	26-77 (26-77)	0-5 (0.5-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	2.1 (0.2)	0.2-4 (0.2-0.2)	2-10 (2-5)

Local Environmental Description (All stands, OC stands)

Aspect: N (1,1), W (1,0), Variable (1,1), SW (9,2), SE (11,4), S (1,1), NE (12,0), E (1,1), NW (15,2)

Macrotopography: entire slope (1,0), middle 1/3 of slope to ridgetop (2,0), upper 1/3 of slope (3,1), ridge top (2,1), upper 1/3 of slope to ridgetop (1,0), middle to upper 1/3 of slope (10,5), middle 1/3 of slope (8,2), lower to upper 1/3 of slope (6,0), lower to middle 1/3 of slope (8,2), lower 1/3 of slope (8,0), bottom (1,0), lower 1/3 of slope to ridgetop (1,1)

Microtopography: concave (5,1), convex (12,3), flat (10,4), undulating (25,4)

Parent material: conglomerate (1,0), diorite (1,0), granitic (3,0), metamorphic (2,0), mixed alluvium (4,0), mixed sedimentary (1,0), sandstone (18,7), sandy alluvium (2,0), sedimentary (3,0)

Soil texture: clay (1,0), clay loam (14,3), loam (3,2), sand (3,1), sandy loam (23,4), silt (1,0)

Category	Average	Range
Elevation (ft)	376 (721)	0-1453 (148-1453)
Slope (degrees)	19 (19.5)	2-38 (2-38)
Large rock cover (%)	0.5 (-)	0-17 (-)
Small rock cover (%)	10.6 (11.1)	0-80 (0-50)
Bare ground cover (%)	32.2 (36.5)	0-83 (5-58)
Litter cover (%)	33.8 (50.3)	0-90 (10-90)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Artemisia californica</i>	100 (100)	14.9 (21.3)	2 (9)	40 (40)
Shrub	<i>Salvia mellifera</i>	100 (100)	13.2 (14.4)	2 (4)	45 (45)
Shrub	<i>Rhus integrifolia</i>	73 (67)	8.2 (5.6)	0.2 (0.2)	31 (30)
Shrub	<i>Malosma laurina</i>	58 (67)	3.9 (3.9)	0.2 (0.2)	12 (12)
Shrub	<i>Eriogonum fasciculatum</i>	56 (58)	2.7 (2)	0.2 (0.2)	9 (7)
Shrub	<i>Mimulus aurantiacus</i>	52 (58)	3.2 (1.3)	0.2 (0.2)	20 (7)
Shrub	<i>Opuntia littoralis</i>	44 (58)	1.2 (1.4)	0.2 (0.2)	6 (6)
Shrub	<i>Acmispon glaber</i>	35 (33)	2.6 (9.6)	0.2 (0.2)	37 (37)
Herb	* <i>Bromus madritensis</i>	46 (25)	4.2 (1.8)	0.2 (0.2)	15 (5)
Herb	* <i>Centaurea melitensis</i>	37 (17)	2.1 (4)	0.2 (1)	8 (7)

***Atriplex amnicola* Alliance**
***Atriplex amnicola* Provisional Semi-Natural Stands**

Samples Used To Describe Association (n= 1)

Rapid Assessment(s), WR and WSD stands: None
 Rapid Assessment(s), OC stands (n=1): 1517EK02

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	60.0 (60.0)	60-60 (60-60)	-
Herb cover (%)	7.0 (7.0)	7-7 (7-7)	0-0.5 (0-0.5)
Shrub cover (%)	55.0 (55.0)	55-55 (55-55)	0.5-1 (0.5-1)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: N (1,1)
 Macrotopography: lower to middle 1/3 of slope (1,1)
 Microtopography: undulating (1,1)
 Parent material: sandstone (1,1)
 Soil texture:

Category	Average	Range
Elevation (ft)	10 (10)	10-10 (10-10)
Slope (degrees)	15 (15.0)	15-15 (15-15)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	- (-)	- (-)
Bare ground cover (%)	38.0 (38.0)	38-38 (38-38)
Litter cover (%)	60.0 (60.0)	60-60 (60-60)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	* <i>Acacia</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Artemisia californica</i>	100 (100)	3 (3)	3 (3)	3 (3)
Shrub	* <i>Atriplex amnicola</i>	100 (100)	50 (50)	50 (50)	50 (50)
Shrub	<i>Atriplex lentiformis</i>	100 (100)	1 (1)	1 (1)	1 (1)
Shrub	<i>Baccharis pilularis</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Encelia californica</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Isocoma menziesii</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Anagallis arvensis</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus diandrus</i>	100 (100)	4 (4)	4 (4)	4 (4)
Herb	* <i>Bromus hordeaceus</i>	100 (100)	2 (2)	2 (2)	2 (2)
Herb	* <i>Carduus pycnocephalus</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Centaurea melitensis</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Erodium cicutarium</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Euphorbia peplus</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Medicago polymorpha</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

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***Atriplex lentiformis* Association**

Samples Used To Describe Association (n= 2)

Rapid Assessment(s), WR and WSD stands: 0310AK23

Rapid Assessment(s), OC stands (n=1): 1404EK02

Local Vegetation Description	All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)		45.0 (50.0)	40-50 (50-50)	-
Herb cover (%)		6.1 (12.0)	0.2-12 (12-12)	0-0.5 (0-0.5)
Shrub cover (%)		38.0 (38.0)	38-38 (38-38)	1-5 (1-2)
Tall shrub / low tree cover (%)		- (-)	- (-)	- (-)
Overstory tree cover (%)		- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: S (1,1), SE (1,0)

Macrotopography: lower 1/3 of slope (1,0), lower to middle 1/3 of slope (1,1)

Microtopography: flat (2,1)

Parent material: mixed alluvium (1,0), sandstone (1,1)

Soil texture: clay loam (1,0), sandy loam (1,1)

Category	Average	Range
Elevation (ft)	33 (66)	0-66 (66-66)
Slope (degrees)	5 (3.0)	3-6 (3-3)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	3.5 (5.0)	2-5 (5-5)
Bare ground cover (%)	30.0 (43.0)	17-43 (43-43)
Litter cover (%)	65.0 (50.0)	50-80 (50-50)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Atriplex lentiformis</i>	100 (100)	35 (30)	30 (30)	40 (30)
Shrub	<i>Artemisia californica</i>	50 (100)	5 (5)	5 (5)	5 (5)
Shrub	<i>Baccharis pilularis</i>	50 (100)	3 (3)	3 (3)	3 (3)
Shrub	<i>Eriogonum fasciculatum</i>	50 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Lycium californicum</i>	50 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Rhus integrifolia</i>	50 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Anagallis arvensis</i>	50 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Brassica nigra</i>	50 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus madritensis</i>	50 (100)	10 (10)	10 (10)	10 (10)
Herb	* <i>Carduus pycnocephalus</i>	50 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Centaurea melitensis</i>	50 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Cressa truxillensis</i>	50 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Festuca myuros</i>	50 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Foeniculum vulgare</i>	50 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Frankenia salina</i>	50 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Galium parisiense</i>	50 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Pseudognaphalium californicum</i>	50 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Sonchus asper</i>	50 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Cryptogam	* <i>Moss</i>	50 (-)	1 (-)	1 (-)	1 (-)
Algae	<i>Algae</i>	50 (-)	0.2 (-)	0.2 (-)	0.2 (-)

Baccharis pilularis Alliance
Baccharis pilularis/Herbaceous Association

Samples Used To Describe Association (n= 6)

Rapid Assessment(s), WR and WSD stands: SDRP0129, 1177JD01, 1186JD01, 0625AK03

Rapid Assessment(s), OC stands (n=2): 1033JD01, 1089EK01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	41.8 (51.5)	30-55 (48-55)	-
Herb cover (%)	20.6 (6.0)	6-30 (6-6)	0-5 (0-0.5)
Shrub cover (%)	48.5 (48.5)	42-55 (42-55)	0-2 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	0.2 (-)	0.2-0.2 (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: Flat (2,0), NE (2,1), NW (1,0), SE (1,1)

Macrotopography: lower 1/3 of slope (1,0), lower to middle 1/3 of slope (1,1), bottom (3,0), middle 1/3 of slope (1,1)

Microtopography: concave (2,1), convex (1,1), flat (3,0)

Parent material: clayey alluvium (1,0), granitic (1,0), sandstone (1,1)

Soil texture: clay (1,0), clay loam (1,1), sandy loam (3,1)

Category	Average	Range
Elevation (ft)	316 (194)	0-597 (20-367)
Slope (degrees)	7 (15.5)	0-26 (5-26)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	2.8 (-)	0-9 (-)
Bare ground cover (%)	37.7 (32.5)	0-65 (32-33)
Litter cover (%)	41.0 (65.0)	0-65 (65-65)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	* <i>Schinus molle</i>	33 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Baccharis pilularis</i>	100 (100)	26 (39)	8 (26)	52 (52)
Shrub	<i>Artemisia californica</i>	50 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Isocoma menziesii</i>	50 (50)	5.7 (15)	1 (15)	15 (15)
Shrub	<i>Eriogonum fasciculatum</i>	33 (-)	2.1 (-)	0.2 (-)	4 (-)
Shrub	<i>Mimulus aurantiacus</i>	33 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus hordeaceus</i>	67 (50)	4.1 (5)	0.2 (5)	10 (5)
Herb	* <i>Foeniculum vulgare</i>	67 (50)	6.8 (0.2)	0.2 (0.2)	20 (0.2)
Herb	* <i>Hirschfeldia incana</i>	50 (-)	0.8 (-)	0.2 (-)	2 (-)
Herb	<i>Pseudognaphalium californicum</i>	50 (100)	1.1 (0.2)	0.2 (0.2)	3 (0.2)
Herb	<i>Ambrosia psilostachya</i>	33 (-)	0.6 (-)	0.2 (-)	1 (-)
Herb	* <i>Brassica nigra</i>	33 (50)	4.1 (0.2)	0.2 (0.2)	8 (0.2)
Herb	* <i>Bromus madritensis</i>	33 (-)	7.5 (-)	3 (-)	12 (-)
Herb	* <i>Centaurea melitensis</i>	33 (-)	1.5 (-)	1 (-)	2 (-)
Herb	* <i>Helminthotheca echioides</i>	33 (-)	0.2 (-)	0.2 (-)	0.2 (-)

Baccharis salicifolia Alliance
Baccharis salicifolia Association

Samples Used To Describe Association (n= 25)

Rapid Assessment(s), WR and WSD stands: 0520DH06, 0709AK01, SDRP0078, 1361JD02, 1626KH01, SDRP0200, 0504MJ23, SDRP0081, 1784FS01, SDRP0150, SDRP0316, 1604LS02, SDG0106, 1019DH01, 1545EB01, 0506RB04, 1766KH02, 1163FS01, 0506AK05, SDRP0067

Rapid Assessment(s), OC stands (n=5): 1014EK01, 1243MA01, 1426MA01, 1499EK01, 1510EK01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	49.7 (42.6)	15-90 (23-77)	-
Herb cover (%)	19.0 (7.6)	0.2-72 (0.2-14)	0-2 (0-1)
Shrub cover (%)	35.4 (35.4)	18-74 (18-74)	0-10 (1-5)
Tall shrub / low tree cover (%)	0.2 (0.2)	0.2-0.2 (0.2-0.2)	1-2 (1-2)
Overstory tree cover (%)	2.0 (1.4)	0.2-8 (0.2-2)	2-15 (2-10)

Local Environmental Description (All stands, OC stands)

Aspect: NW (3,0), Variable (2,0), SW (6,1), S (3,3), NE (2,0), Flat (8,0), SE (1,1)

Macrotopography: bottom (19,4), bottom to lower 1/3 of slope (1,0), bottom to mid 1/3 of slope (1,0), lower 1/3 of slope (2,0), middle 1/3 of slope (1,0)

Microtopography: concave (8,3), flat (13,2), undulating (4,0)

Parent material: clayey alluvium (1,0), gravelly alluvium (1,0), mixed alluvium (6,1), sandstone (3,3), sandy alluvium (6,0), sedimentary (1,0), silty alluvium (3,0)

Soil texture: sandy loam (5,0), clay loam (1,0), silty loam (2,0), loam (1,0), clay (2,0), sand (9,4)

Category	Average	Range
Elevation (ft)	546 (793)	0-1263 (381-1079)
Slope (degrees)	2 (1.8)	0-15 (1-3)
Large rock cover (%)	5.0 (-)	0-45 (-)
Small rock cover (%)	15.6 (17.2)	0-78 (0-45)
Bare ground cover (%)	21.1 (48.4)	0-75 (4-75)
Litter cover (%)	33.9 (32.2)	0-95 (5-88)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Salix lasiolepis</i>	32 (20)	1.5 (2)	0.2 (2)	3 (2)
Shrub	<i>Baccharis salicifolia</i>	100 (100)	26.9 (28.4)	8 (15)	72 (55)
Shrub	<i>Artemisia californica</i>	32 (80)	0.6 (0.6)	0.2 (0.2)	1 (1)
Shrub	<i>Sambucus nigra subsp. caerulea</i>	28 (40)	2.3 (3.5)	0.2 (2)	6 (5)
Shrub	* <i>Tamarix</i>	28 (20)	0.4 (0.2)	0.2 (0.2)	1 (0.2)
Herb	<i>Ambrosia psilostachya</i>	40 (60)	1 (0.5)	0.2 (0.2)	4 (1)
Herb	* <i>Hirschfeldia incana</i>	40 (20)	1.4 (4)	0.2 (4)	4 (4)
Herb	* <i>Centaurea melitensis</i>	32 (40)	0.8 (0.6)	0.2 (0.2)	2 (1)
Herb	* <i>Avena barbata</i>	28 (40)	5.5 (0.2)	0.2 (0.2)	31 (0.2)
Herb	* <i>Bromus diandrus</i>	28 (60)	3.3 (2)	0.2 (1)	8 (3)

***Ceanothus crassifolius* Alliance**
***Ceanothus crassifolius* Association**

Samples Used To Describe Association (n= 6)

Rapid Assessment(s), WR and WSD stands: SDRP0479, SDRP0465, SDRP0438, 0605DH02, 0506AK01

Rapid Assessment(s), OC stands (n=1): 1235EK01

Local Vegetation Description	All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)		60.7 (38.0)	34-95 (38-38)	-
Herb cover (%)		17.8 (3.0)	3-65 (3-3)	0-0.5 (0-0.5)
Shrub cover (%)		37.0 (37.0)	37-37 (37-37)	0-5 (1-2)
Tall shrub / low tree cover (%)		- (-)	- (-)	- (-)
Overstory tree cover (%)		- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: SE (1,0), W (1,1), NW (2,0), NE (2,0)

Macrotopography: lower to upper 1/3 of slope (4,0), middle 1/3 of slope (2,1)

Microtopography: flat (1,0), undulating (5,1)

Parent material: granitic (5,0), sandstone (1,1)

Soil texture: loam (2,0), sandy loam (3,0), clay loam (1,1)

Category	Average	Range
Elevation (ft)	1134 (1795)	689-1795 (1795-1795)
Slope (degrees)	24 (40.0)	7-40 (40-40)
Large rock cover (%)	1.7 (-)	0-8 (-)
Small rock cover (%)	10.2 (43.0)	0-43 (43-43)
Bare ground cover (%)	20.0 (21.0)	5-39 (21-21)
Litter cover (%)	58.8 (33.0)	33-80 (33-33)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Ceanothus crassifolius</i>	100 (100)	34.5 (6)	6 (6)	60 (6)
Shrub	<i>Malosma laurina</i>	83 (100)	2.8 (1)	1 (1)	5 (1)
Shrub	<i>Xylococcus bicolor</i>	83 (-)	3.3 (-)	0.2 (-)	8 (-)
Shrub	<i>Salvia mellifera</i>	67 (100)	4.6 (1)	0.2 (1)	12 (1)
Shrub	<i>Acmispon glaber</i>	50 (100)	3.8 (11)	0.2 (11)	11 (11)
Shrub	<i>Adenostoma fasciculatum</i>	50 (-)	5.3 (-)	1 (-)	10 (-)
Shrub	<i>Artemisia californica</i>	50 (100)	0.5 (0.2)	0.2 (0.2)	1 (0.2)
Shrub	<i>Hazardia squarrosa</i>	50 (-)	1.1 (-)	0.2 (-)	2 (-)
Shrub	<i>Rhus ovata</i>	50 (100)	1.4 (0.2)	0.2 (0.2)	3 (0.2)
Shrub	<i>Ceanothus tomentosus</i>	33 (-)	4.5 (-)	2 (-)	7 (-)
Shrub	<i>Cneoridium dumosum</i>	33 (-)	2.6 (-)	0.2 (-)	5 (-)
Shrub	<i>Eriogonum fasciculatum</i>	33 (-)	1.6 (-)	0.2 (-)	3 (-)
Shrub	<i>Eriophyllum confertiflorum</i> var. <i>confertiflorum</i>	33 (-)	0.6 (-)	0.2 (-)	1 (-)
Shrub	<i>Mimulus aurantiacus</i>	33 (-)	0.6 (-)	0.2 (-)	1 (-)
Shrub	<i>Quercus berberidifolia</i>	33 (-)	5.5 (-)	3 (-)	8 (-)
Herb	<i>Marah macrocarpus</i> var. <i>macrocarpus</i>	83 (-)	3.4 (-)	0.2 (-)	6 (-)
Herb	* <i>Bromus madritensis</i>	50 (-)	8 (-)	1 (-)	15 (-)
Herb	* <i>Bromus diandrus</i>	33 (-)	6.5 (-)	3 (-)	10 (-)
Herb	<i>Cryptantha</i>	33 (-)	0.6 (-)	0.2 (-)	1 (-)



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Herb	<i>Galium angustifolium</i>	33 (100)	1 (1)	1 (1)	1 (1)
Herb	<i>Helianthus gracilentus</i>	33 (100)	0.6 (1)	0.2 (1)	1 (1)
Herb	* <i>Hirschfeldia incana</i>	33 (100)	1.5 (1)	1 (1)	2 (1)
Herb	<i>Pseudognaphalium californicum</i>	33 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

***Ceanothus megacarpus* Alliance**
***Ceanothus megacarpus* Association**

Samples Used To Describe Association (n= 1)
 Rapid Assessment(s), WR and WSD stands: None
 Rapid Assessment(s), OC stands (n=1): 1521EK03

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	65.0 (65.0)	65-65 (65-65)	-
Herb cover (%)	0.2 (0.2)	0.2-0.2 (0.2-0.2)	0-0.5 (0-0.5)
Shrub cover (%)	65.0 (65.0)	65-65 (65-65)	2-5 (2-5)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: NW (1,1)
Macrotopography: middle 1/3 of slope (1,1)
Microtopography: convex (1,1)
Parent material: sandstone (1,1)
Soil texture: sandy loam (1,1)

Category	Average	Range
Elevation (ft)	627 (627)	627-627 (627-627)
Slope (degrees)	40 (40.0)	40-40 (40-40)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	- (-)	- (-)
Bare ground cover (%)	5.0 (5.0)	5-5 (5-5)
Litter cover (%)	92.0 (92.0)	92-92 (92-92)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Adenostoma fasciculatum</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Ceanothus megacarpus</i>	100 (100)	63 (63)	63 (63)	63 (63)
Shrub	<i>Heteromeles arbutifolia</i>	100 (100)	1 (1)	1 (1)	1 (1)
Shrub	<i>Keckiella cordifolia</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Malosma laurina</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Marah</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Quercus berberidifolia</i>	100 (100)	1 (1)	1 (1)	1 (1)
Shrub	<i>Rhus integrifolia</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

***Ceanothus tomentosus* Alliance**
***Ceanothus tomentosus* Association**

Samples Used To Describe Association (n= 28)

Rapid Assessment(s), WR and WSD stands: 1155JD01, 0605RB02, 0519DH02, 1361JD01, 0311DH22, 0505MG01, 1329EB02, 0602DH03, 1249TK01, 0519AK02, 0624AK04, 1362MB01, 0422AK01, 1607JD02, 0506AK02, 1604EB03, SDRP0425, 1486MM02, 1827MM01, 0708TK01, 1146JD01, 0422DH01, 1361JD03, 0504RB23, 1381JD01, 0609DH01

Rapid Assessment(s), OC stands (n=2): 1341EK02, 1343EK05

Local Vegetation Description	Average	Range	Height (m)
Total vegetation cover (%) All stands (OC stands)	57.3 (47.5)	25-85 (47-48)	-
Herb cover (%)	12.6 (0.2)	0-30 (0.2-0.2)	0-1 (0-0.5)
Shrub cover (%)	47.5 (47.5)	47-48 (47-48)	0-5 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	1-2 (-)
Overstory tree cover (%)	5.0 (-)	1-8 (-)	2-5 (-)

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Local Environmental Description (All stands, OC stands)

Aspect: NE (9,1), SW (3,0), NW (14,0), SE (2,1)

Macrotopography: middle to upper 1/3 of slope (6,0), middle 1/3 of slope to ridgetop (1,0), middle 1/3 of slope (6,1), lower to upper 1/3 of slope (6,0), lower to middle 1/3 of slope (1,0), lower 1/3 of slope (3,0), bottom to lower 1/3 of slope (2,0), bottom to upper 1/3 of slope (1,0)

Microtopography: flat (6,0), undulating (9,1), convex (10,0), concave (3,1)

Parent material: diorite (1,0), gabbro (3,0), granitic (8,0), metamorphic (5,0), sandstone (2,2), volcanic flow (1,0)

Soil texture: loam (1,0), silty loam (1,1), sandy loam (15,1), clay loam (9,0), muck (1,0)

Category	Average	Range
Elevation (ft)	1416 (1920)	174-2684 (1867-1972)
Slope (degrees)	24 (27.0)	2-42 (25-29)
Large rock cover (%)	8.1 (0.5)	0-35 (0-1)
Small rock cover (%)	22.8 (-)	0-68 (-)
Bare ground cover (%)	25.4 (42.5)	0-84 (36-49)
Litter cover (%)	36.9 (54.0)	0-70 (48-60)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Ceanothus tomentosus</i>	100 (100)	32.4 (36)	7 (32)	60 (40)
Shrub	<i>Malosma laurina</i>	75 (100)	3.7 (1.5)	0.2 (1)	15 (2)
Shrub	<i>Adenostoma fasciculatum</i>	54 (100)	3.5 (2)	0.2 (1)	10 (3)
Shrub	<i>Eriophyllum confertiflorum var. confertiflorum</i>	43 (-)	0.8 (-)	0.2 (-)	3 (-)
Shrub	<i>Xylococcus bicolor</i>	43 (-)	2.7 (-)	0.2 (-)	8 (-)
Shrub	<i>Hazardia squarrosa</i>	36 (-)	0.5 (-)	0.2 (-)	2 (-)
Shrub	<i>Acmispon glaber</i>	32 (50)	3.1 (2)	0.2 (2)	10 (2)
Shrub	<i>Malacothamnus fasciculatus</i>	29 (100)	1.6 (1)	0.2 (1)	4 (1)
Shrub	<i>Eriogonum fasciculatum</i>	25 (-)	0.5 (-)	0.2 (-)	1 (-)
Shrub	<i>Heteromeles arbutifolia</i>	25 (50)	0.9 (0.2)	0.2 (0.2)	3 (0.2)
Shrub	<i>Mimulus aurantiacus</i>	25 (-)	1.1 (-)	0.2 (-)	5 (-)
Shrub	<i>Rhamnus crocea</i>	25 (-)	1 (-)	0.2 (-)	3 (-)
Shrub	<i>Rhus ovata</i>	25 (-)	3.3 (-)	0.2 (-)	15 (-)
Herb	* <i>Bromus madritensis</i>	43 (-)	6.4 (-)	0.2 (-)	20 (-)
Herb	* <i>Gastridium phleoides</i>	32 (-)	0.4 (-)	0.2 (-)	2 (-)
Herb	<i>Calystegia macrostegia</i>	29 (-)	1 (-)	0.2 (-)	3 (-)
Herb	* <i>Centaurea melitensis</i>	25 (-)	3.2 (-)	0.2 (-)	10 (-)
Herb	* <i>Festuca myuros</i>	25 (-)	7.9 (-)	2 (-)	18 (-)

***Cercocarpus betuloides* Alliance**
***Cercocarpus betuloides* Association**

Samples Used To Describe Association (n= 1)

Rapid Assessment(s), WR and WSD stands: None
 Rapid Assessment(s), OC stands (n=1): 1231JD01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	62.0 (62.0)	62-62 (62-62)	-
Herb cover (%)	- (-)	- (-)	- (-)
Shrub cover (%)	- (-)	- (-)	- (-)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: SW (1,1)
 Macrotopography: middle to upper 1/3 of slope (1,1)
 Microtopography: undulating (1,1)
 Parent material:
 Soil texture: sandy loam (1,1)

Category	Average	Range
Elevation (ft)	5289 (5289)	5289-5289 (5289-5289)
Slope (degrees)	26 (26.0)	26-26 (26-26)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	10.0 (10.0)	10-10 (10-10)
Bare ground cover (%)	33.0 (33.0)	33-33 (33-33)
Litter cover (%)	55.0 (55.0)	55-55 (55-55)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Ceanothus leucodermis</i>	100 (100)	12 (12)	12 (12)	12 (12)
Shrub	<i>Cercocarpus betuloides</i> var. <i>betuloides</i>	100 (100)	45 (45)	45 (45)	45 (45)
Shrub	<i>Eriophyllum confertiflorum</i>	100 (100)	1 (1)	1 (1)	1 (1)
Shrub	<i>Garrya flavescens</i>	100 (100)	2 (2)	2 (2)	2 (2)
Shrub	<i>Keckiella antirrhinoides</i>	100 (100)	2 (2)	2 (2)	2 (2)
Shrub	<i>Stephanomeria cichoriacea</i>	100 (100)	2 (2)	2 (2)	2 (2)
Herb	<i>Cirsium occidentale</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Clarkia purpurea</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

***Encelia californica* Alliance**
***Encelia californica* (Alliance Only)**

Samples Used To Describe Association (n= 1)

Rapid Assessment(s), WR and WSD stands: None

Rapid Assessment(s), OC stands (n=1): 1404EK01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	54.0 (54.0)	54-54 (54-54)	-
Herb cover (%)	4.0 (4.0)	4-4 (4-4)	0-0.5 (0-0.5)
Shrub cover (%)	50.0 (50.0)	50-50 (50-50)	0.5-1 (0.5-1)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: S (1,1)

Macrotopography: upper 1/3 of slope (1,1)

Microtopography: concave (1,1)

Parent material: sandstone (1,1)

Soil texture: sandy loam (1,1)

Category	Average	Range
Elevation (ft)	39 (39)	39-39 (39-39)
Slope (degrees)	30 (30.0)	30-30 (30-30)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	- (-)	- (-)
Bare ground cover (%)	53.0 (53.0)	53-53 (53-53)
Litter cover (%)	45.0 (45.0)	45-45 (45-45)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	* <i>Atriplex amnicola</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	* <i>Atriplex semibaccata</i>	100 (100)	1 (1)	1 (1)	1 (1)
Shrub	<i>Baccharis pilularis</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Cylindropuntia prolifera</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Encelia californica</i>	100 (100)	45 (45)	45 (45)	45 (45)
Shrub	<i>Eriogonum fasciculatum</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Lycium californicum</i>	100 (100)	3 (3)	3 (3)	3 (3)
Shrub	<i>Mirabilis laevis</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	* <i>Peritoma arborea</i> var. <i>arborea</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus madritensis</i>	100 (100)	2 (2)	2 (2)	2 (2)
Herb	<i>Chorizanthe</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Distichlis spicata</i>	100 (100)	1 (1)	1 (1)	1 (1)
Herb	* <i>Mesembryanthemum crystallinum</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Salsola tragus</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

Encelia californica Alliance

Encelia californica-Artemisia californica Association

Samples Used To Describe Association (n= 18)

Rapid Assessment(s), WR and WSD stands: 0310RB24, 0708MG01, HASP.016, CORN.009/392, 1737KH01, LAMA.019, SDG0087, 0309RB24, 1520JD01, 0309RB25, LAMA.006, 0707MG01, SDG0083

Rapid Assessment(s), OC stands (n=5): 1075EK01, 1168EK01, 1407EK02, 1471EK02, 1477EK01

Local Vegetation Description	All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)		48.2 (54.2)	25-75 (50-61)	-
Herb cover (%)		11.0 (0.4)	0.2-45 (0.2-1)	0-2 (0-0.5)
Shrub cover (%)		46.4 (54.0)	25-60 (50-60)	0-2 (0-2)
Tall shrub / low tree cover (%)		- (-)	- (-)	0.5-2 (-)
Overstory tree cover (%)		2.0 (-)	2-2 (-)	10-15 (-)

Local Environmental Description (All stands, OC stands)

Aspect: SW (9,3), NE (1,0), NW (2,1), S (1,1), SE (5,0)

Macrotopography: entire slope (1,0), lower 1/3 of slope (3,0), lower to middle 1/3 of slope (1,1), lower to upper 1/3 of slope (1,0), middle 1/3 of slope (6,2), ridge top (1,0), upper 1/3 of slope (4,1)

Microtopography: convex (8,0), flat (5,3), concave (3,1), Undulating (2,1)

Parent material: granitic (5,0), mixed sedimentary (1,0), sandstone (7,5), sedimentary (1,0), volcanic flow (1,0)

Soil texture: sand (5,2), sandy loam (9,2), clay loam (3,0)

Category	Average	Range
Elevation (ft)	439 (70)	0-2095 (20-121)
Slope (degrees)	20 (16.4)	2-50 (2-50)
Large rock cover (%)	2.9 (-)	0-15 (-)
Small rock cover (%)	10.3 (-)	0-60 (-)
Bare ground cover (%)	44.6 (49.3)	4-74 (33-58)
Litter cover (%)	39.2 (48.8)	3-94 (40-65)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Encelia californica</i>	100 (100)	24.1 (29.4)	2 (8)	48 (47)
Shrub	<i>Artemisia californica</i>	94 (100)	9.3 (14.8)	0.2 (1)	37 (37)
Shrub	<i>Eriogonum fasciculatum</i>	56 (40)	2.3 (1)	0.2 (1)	8 (1)
Shrub	<i>Rhus integrifolia</i>	50 (80)	1.4 (0.8)	0.2 (0.2)	2 (1)
Shrub	<i>Cylindropuntia prolifera</i>	28 (20)	0.5 (0.2)	0.2 (0.2)	1 (0.2)
Herb	* <i>Bromus madritensis</i>	50 (20)	4.3 (1)	0.2 (1)	18 (1)
Herb	* <i>Brassica nigra</i>	39 (60)	3.8 (0.2)	0.2 (0.2)	17 (0.2)

***Ericameria palmeri* Alliance**
***Ericameria palmeri/Stipa pulchra* Provisional Association**

Samples Used To Describe Association (n= 4)

Rapid Assessment(s), WR and WSD stands: None
 Rapid Assessment(s), OC stands (n=4): 1110EK04, 1298MA02, 1449EK02, 1456MA01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	58.0 (58.0)	40-77 (40-77)	-
Herb cover (%)	25.8 (25.8)	14-35 (14-35)	0-1 (0-1)
Shrub cover (%)	33.5 (33.5)	26-37 (26-37)	0.5-1 (0.5-1)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	0.2 (0.2)	0.2-0.2 (0.2-0.2)	5-10 (5-10)

Local Environmental Description (All stands, OC stands)

Aspect: SW (1,1), NE (2,2), Flat (1,1)
 Macrotopography: lower 1/3 of slope (4,4)
 Microtopography: flat (2,2), undulating (2,2)
 Parent material: sandstone (2,2)
 Soil texture: clay loam (2,2)

Category	Average	Range
Elevation (ft)	835 (835)	600-1020 (600-1020)
Slope (degrees)	8 (8.3)	1-15 (1-15)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	2.0 (2.0)	0-5 (0-5)
Bare ground cover (%)	18.3 (18.3)	9-31 (9-31)
Litter cover (%)	77.0 (77.0)	66-85 (66-85)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Quercus agrifolia</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Ericameria palmeri</i> var. <i>pachylepis</i>	50 (100)	35 (32.8)	35 (26)	35 (35)
Shrub	<i>Ericameria palmeri</i> var. <i>pachylepis</i>	50 (100)	30.5 (32.8)	26 (26)	35 (35)
Shrub	<i>Isocoma menziesii</i>	50 (75)	0.6 (0.5)	0.2 (0.2)	1 (1)
Shrub	<i>Baccharis pilularis</i>	25 (25)	2 (2)	2 (2)	2 (2)
Shrub	<i>Isocoma menziesii</i>	25 (75)	0.2 (0.5)	0.2 (0.2)	0.2 (1)
Shrub	<i>Mimulus aurantiacus</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Rhamnus ilicifolia</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Sambucus nigra</i> subsp. <i>caerulea</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus diandrus</i>	100 (100)	17 (17)	4 (4)	32 (32)
Herb	<i>Stipa pulchra</i>	100 (100)	8.3 (8.3)	3 (3)	14 (14)
Herb	* <i>Brassica nigra</i>	75 (75)	0.5 (0.5)	0.2 (0.2)	1 (1)
Herb	* <i>Avena barbata</i>	50 (50)	0.6 (0.6)	0.2 (0.2)	1 (1)
Herb	* <i>Cynara cardunculus</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Elymus condensatus</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Amsinckia intermedia</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Avena fatua</i>	25 (25)	10 (10)	10 (10)	10 (10)
Herb	* <i>Bromus hordeaceus</i>	25 (25)	5 (5)	5 (5)	5 (5)

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Herb	<i>*Centaurea melitensis</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Dichelostemma capitatum</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Erodium botrys</i>	25 (25)	1 (1)	1 (1)	1 (1)
Herb	<i>*Erodium cicutarium</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Festuca perennis</i>	25 (25)	3 (3)	3 (3)	3 (3)
Herb	<i>*Hirschfeldia incana</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Lactuca serriola</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Marrubium vulgare</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Medicago polymorpha</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Phacelia</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Pseudognaphalium californicum</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Rumex crispus</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Sisyrinchium bellum</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Torilis arvensis</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Vicia villosa</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

***Eriodictyon crassifolium* Alliance**
***Eriodictyon crassifolium* (Alliance Only)**

Samples Used To Describe Association (n= 6)

Rapid Assessment(s), WR and WSD stands: LAFU.024, CLNF.039, BLACK.006/339, BLACK.008/976
 Rapid Assessment(s), OC stands (n=2): 1161EK01, 1363EK02

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	37.2 (33.0)	27-50 (27-39)	-
Herb cover (%)	14.4 (6.0)	1-30 (6-6)	0-0.5 (-)
Shrub cover (%)	29.8 (30.0)	20-39 (21-39)	0-2 (0.5-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	1-5 (-)
Overstory tree cover (%)	1.0 (-)	1-1 (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: E (1,1), S (1,1), SW (1,0), Variable (3,0)
Macrotopography: middle 1/3 of slope (4,0), middle to upper 1/3 of slope (1,1), upper 1/3 of slope (1,1)
Microtopography: Convex (2,0), Flat (1,0), undulating (3,2)
Parent material: granitic (3,1), sandstone (1,1), sedimentary (2,0)
Soil texture: clay loam (1,0), loam (1,0), sand (1,1), sandy loam (3,1)

Category	Average	Range
Elevation (ft)	3435 (2400)	2159-5629 (2159-2641)
Slope (degrees)	14 (28.0)	2-30 (26-30)
Large rock cover (%)	2.0 (1.5)	0-5 (0-3)
Small rock cover (%)	42.5 (20.5)	1-70 (1-40)
Bare ground cover (%)	37.2 (59.0)	7-80 (38-80)
Litter cover (%)	16.2 (17.5)	10-25 (15-20)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Quercus wislizeni</i>	33 (-)	1.5 (-)	1 (-)	2 (-)
Shrub	<i>Eriodictyon crassifolium</i>	100 (100)	14 (11)	9 (9)	20 (13)
Shrub	<i>Adenostoma fasciculatum</i>	83 (100)	5.6 (11.5)	0.2 (7)	16 (16)
Shrub	<i>Eriogonum fasciculatum</i>	67 (-)	4.6 (-)	0.2 (-)	8 (-)
Shrub	<i>Ceanothus crassifolius</i>	50 (100)	0.8 (1.1)	0.2 (0.2)	2 (2)
Shrub	<i>Rhus ovata</i>	50 (50)	1.7 (1)	0.2 (1)	4 (1)
Shrub	<i>Salvia mellifera</i>	50 (100)	2.7 (0.6)	0.2 (0.2)	7 (1)
Shrub	<i>Helianthemum scoparium</i>	33 (100)	4.6 (4.6)	0.2 (0.2)	9 (9)
Herb	* <i>Bromus madritensis</i>	50 (50)	3.5 (0.2)	0.2 (0.2)	10 (0.2)
Herb	* <i>Bromus tectorum</i>	33 (-)	6 (-)	2 (-)	10 (-)
Herb	<i>Chaenactis artemisiifolia</i>	33 (50)	1.6 (0.2)	0.2 (0.2)	3 (0.2)
Herb	<i>Cryptantha muricata</i>	33 (-)	2 (-)	1 (-)	3 (-)
Herb	<i>Gilia</i>	33 (-)	0.2 (-)	0.2 (-)	0.2 (-)

***Eriogonum fasciculatum* Alliance**

***Eriogonum fasciculatum*/*Salvia columbariae*-*Mirabilis laevis* Association**

Samples Used To Describe Association (n= 6)

Rapid Assessment(s), WR and WSD stands: SDG0067, 0507TK02, SDRP0421, 0506DH21, SDRP0441
 Rapid Assessment(s), OC stands (n=1): 1513EK02

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	29.0 (10.0)	8-55 (10-10)	-
Herb cover (%)	24.5 (5.0)	5-50 (5-5)	0-2 (0-0.5)
Shrub cover (%)	5.0 (5.0)	5-5 (5-5)	0-2 (0.5-1)
Tall shrub / low tree cover (%)	- (-)	- (-)	2-5 (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: S (1,1), SE (1,0), SW (3,0), Variable (1,0)
Macrotopography: lower to middle 1/3 of slope (1,0), middle 1/3 of slope (3,1), middle to upper 1/3 of slope (2,0)
Microtopography: concave (1,0), undulating (2,1), convex (1,0), flat (2,0)
Parent material: conglomerate (1,0), granitic (3,0), sandstone (2,1)
Soil texture: sand (1,1), sandy loam (4,0), silty loam (1,0)

Category	Average	Range
Elevation (ft)	948 (974)	715-1227 (974-974)
Slope (degrees)	26 (45.0)	12-45 (45-45)
Large rock cover (%)	0.0 (-)	0-0.2 (-)
Small rock cover (%)	10.9 (-)	0-50 (-)
Bare ground cover (%)	53.8 (94.0)	8-94 (94-94)
Litter cover (%)	25.7 (5.0)	5-80 (5-5)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Eriogonum fasciculatum</i>	100 (100)	3.7 (2)	1 (2)	6 (2)
Shrub	<i>Artemisia californica</i>	83 (100)	0.9 (1)	0.2 (1)	2 (1)
Shrub	<i>Mirabilis laevis</i>	83 (100)	0.4 (0.2)	0.2 (0.2)	1 (0.2)
Shrub	<i>Acmispon glaber</i>	50 (100)	1.1 (2)	0.2 (2)	2 (2)
Shrub	<i>Hesperoyucca whipplei</i>	50 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Malosma laurina</i>	50 (-)	3.7 (-)	2 (-)	5 (-)
Shrub	<i>Cneoridium dumosum</i>	33 (-)	2 (-)	1 (-)	3 (-)
Shrub	<i>Salvia mellifera</i>	33 (-)	1.6 (-)	0.2 (-)	3 (-)
Herb	* <i>Bromus madritensis</i>	83 (100)	8.8 (0.2)	0.2 (0.2)	23 (0.2)
Herb	* <i>Centaurea melitensis</i>	83 (-)	4.2 (-)	0.2 (-)	8 (-)
Herb	* <i>Hirschfeldia incana</i>	67 (-)	3.6 (-)	0.2 (-)	8 (-)
Herb	<i>Salvia columbariae</i>	67 (100)	3.3 (0.2)	0.2 (0.2)	9 (0.2)
Herb	<i>Selaginella bigelovii</i>	67 (-)	3.6 (-)	0.2 (-)	7 (-)
Herb	* <i>Avena fatua</i>	50 (-)	10.3 (-)	4 (-)	20 (-)
Herb	* <i>Erodium cicutarium</i>	50 (-)	1.4 (-)	0.2 (-)	2 (-)
Herb	<i>Phacelia parryi</i>	50 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Stephanomeria virgata</i>	50 (100)	0.5 (0.2)	0.2 (0.2)	1 (0.2)
Herb	<i>Calystegia macrostegia</i>	33 (-)	0.6 (-)	0.2 (-)	1 (-)
Herb	<i>Chaenactis glabriuscula</i>	33 (100)	2.5 (1)	1 (1)	4 (1)
Herb	<i>Chamaesyce polycarpa</i>	33 (100)	0.6 (1)	0.2 (1)	1 (1)
Herb	<i>Cryptantha</i>	33 (-)	1.1 (-)	0.2 (-)	2 (-)
Herb	<i>Cryptantha intermedia</i>	33 (-)	0.6 (-)	0.2 (-)	1 (-)
Herb	* <i>Hypochaeris glabra</i>	33 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Lepidium nitidum</i>	33 (-)	0.6 (-)	0.2 (-)	1 (-)
Herb	<i>Mimulus brevipes</i>	33 (-)	0.6 (-)	0.2 (-)	1 (-)
Herb	<i>Muhlenbergia microsperma</i>	33 (100)	0.6 (1)	0.2 (1)	1 (1)
Herb	<i>Phacelia cicutaria</i> var. <i>hispida</i>	33 (-)	1.1 (-)	0.2 (-)	2 (-)
Herb	<i>Pterostegia drymarioides</i>	33 (-)	1.6 (-)	0.2 (-)	3 (-)

***Eriogonum fasciculatum* Alliance**

***Eriogonum fasciculatum*-*Salvia apiana* Association**

Samples Used To Describe Association (n= 18)

Rapid Assessment(s), WR and WSD stands: SAGE.038, 1125PG01, CLNF.050, SDRP0195, SAGE.068, CLNF.042, SDRP0188, 1542MM01, SDRP0083, 1614MB01, CLNF.072, CORS.002/394/BPU 12856-240, WINC.008/226, WINC.009, MURR.004, CLNF.091, CLNF.017

Rapid Assessment(s), OC stands (n=1): 1346EK01

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Local Vegetation Description	All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)		43.3 (32.0)	27-75 (32-32)	-
Herb cover (%)		14.7 (2.0)	0-47 (2-2)	0-1 (0-0.5)
Shrub cover (%)		34.8 (30.0)	14-58 (30-30)	0-2 (1-2)
Tall shrub / low tree cover (%)		- (-)	- (-)	0.5-5 (-)
Overstory tree cover (%)		- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: NW (2,0), Variable (5,0), SE (5,0), NE (2,0), SW (4,1)

Macrotopography: lower to middle 1/3 of slope (3,0), lower to upper 1/3 of slope (2,0), middle 1/3 of slope (5,1), middle to upper 1/3 of slope (1,0), ridge top (1,0), upper 1/3 of slope (6,0)

Microtopography: Convex (7,0), Flat (2,1), undulating (9,0)

Parent material: granitic (7,0), igneous (1,0), metamorphic (2,0), sandstone (1,1), sedimentary (5,0)

Soil texture: clay loam (9,1), sandy loam (7,0), loam (1,0)

Category	Average	Range
Elevation (ft)	1879 (961)	423-3499 (961-961)
Slope (degrees)	23 (8.0)	8-44 (8-8)
Large rock cover (%)	3.7 (-)	0-23 (-)
Small rock cover (%)	25.1 (-)	0-75 (-)
Bare ground cover (%)	23.8 (33.0)	0-45 (33-33)
Litter cover (%)	19.7 (65.0)	0-65 (65-65)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Salvia apiana</i>	100 (100)	10.1 (8)	1 (8)	26 (8)
Shrub	<i>Eriogonum fasciculatum</i>	89 (100)	18.4 (15)	4 (15)	37 (15)
Shrub	<i>Artemisia californica</i>	78 (100)	4 (6)	0.2 (6)	17 (6)
Shrub	<i>Hesperoyucca whipplei</i>	39 (-)	1.1 (-)	0.2 (-)	3 (-)
Shrub	<i>Malosma laurina</i>	39 (-)	4.6 (-)	0.2 (-)	14 (-)
Shrub	<i>Yucca whipplei</i>	39 (-)	1.1 (-)	0.2 (-)	3 (-)
Shrub	<i>Acmispon glaber</i>	33 (100)	1.3 (0.2)	0.2 (0.2)	5 (0.2)
Shrub	<i>Keckiella antirrhinoides</i>	33 (-)	2.6 (-)	0.2 (-)	5 (-)
Shrub	<i>Lotus scoparius</i>	33 (-)	1.3 (-)	0.2 (-)	5 (-)
Shrub	<i>Adenostoma fasciculatum</i>	28 (-)	1.1 (-)	0.2 (-)	4 (-)
Shrub	<i>Rhamnus crocea</i>	28 (-)	2.2 (-)	1 (-)	5 (-)
Herb	* <i>Hirschfeldia incana</i>	33 (100)	1.3 (0.2)	0.2 (0.2)	4 (0.2)
Herb	* <i>Centaurea melitensis</i>	28 (-)	2.7 (-)	0.2 (-)	7 (-)

***Isocoma menziesii* Alliance**
***Isocoma menziesii* Association**

Samples Used To Describe Association (n= 4)

Rapid Assessment(s), WR and WSD stands: 1019DH02, 0312RB22, SDRP0242

Rapid Assessment(s), OC stands (n=1): 1057EK01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	44.8 (60.0)	18-60 (60-60)	-
Herb cover (%)	27.0 (20.0)	10-45 (20-20)	0-0.5 (0-0.5)
Shrub cover (%)	45.0 (45.0)	45-45 (45-45)	0-5 (0.5-1)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: Flat (2,0), SW (2,1)

Macrotopography: bottom to lower 1/3 of slope (1,0), lower 1/3 of slope (3,1)

Microtopography: convex (1,0), flat (3,1)

Parent material: granitic (1,0), sandstone (1,1), sandy alluvium (1,0), silty alluvium (1,0)

Soil texture: clay loam (1,0), sandy loam (2,1), silt (1,0)

Category	Average	Range
Elevation (ft)	119 (105)	0-371 (105-105)
Slope (degrees)	3 (2.0)	0-10 (2-2)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	0.9 (3.0)	0-3 (3-3)
Bare ground cover (%)	31.8 (30.0)	10-55 (30-30)
Litter cover (%)	54.5 (65.0)	0-88 (65-65)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Isocoma menziesii</i>	100 (100)	20.5 (37)	7 (37)	37 (37)
Shrub	<i>Eriogonum fasciculatum</i>	75 (100)	1.1 (3)	0.2 (3)	3 (3)
Shrub	<i>Ambrosia salsola</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Artemisia californica</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Astragalus trichopodus</i> var. <i>lonchus</i>	25 (-)	1 (-)	1 (-)	1 (-)
Shrub	* <i>Atriplex semibaccata</i>	25 (-)	8 (-)	8 (-)	8 (-)
Shrub	<i>Baccharis pilularis</i>	25 (100)	10 (10)	10 (10)	10 (10)
Shrub	<i>Baccharis sarothroides</i>	25 (-)	1 (-)	1 (-)	1 (-)
Shrub	<i>Cylindropuntia prolifera</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Gutierrezia californica</i>	25 (-)	4 (-)	4 (-)	4 (-)
Shrub	<i>Lycium californicum</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Salvia leucophylla</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus madritensis</i>	100 (100)	10.1 (5)	0.2 (5)	30 (5)
Herb	* <i>Brassica nigra</i>	75 (100)	0.7 (1)	0.2 (1)	1 (1)
Herb	* <i>Centaurea melitensis</i>	75 (100)	5.4 (10)	0.2 (10)	10 (10)
Herb	<i>Ambrosia psilostachya</i>	50 (-)	0.6 (-)	0.2 (-)	1 (-)

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Herb	<i>*Erodium cicutarium</i>	50 (-)	7.5 (-)	1 (-)	14 (-)
Herb	<i>*Festuca myuros</i>	50 (-)	14 (-)	3 (-)	25 (-)
Herb	<i>Ambrosia acanthicarpa</i>	25 (100)	2 (2)	2 (2)	2 (2)
Herb	<i>*Bromus diandrus</i>	25 (-)	2 (-)	2 (-)	2 (-)
Herb	<i>*Bromus hordeaceus</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	<i>Croton setiger</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	<i>*Cynara cardunculus</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Elymus triticoides</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	<i>*Erodium</i>	25 (-)	4 (-)	4 (-)	4 (-)
Herb	<i>*Foeniculum vulgare</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>*Hedypnois cretica</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>*Hypochaeris glabra</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	<i>*Lamarckia aurea</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>*Lolium multiflorum</i>	25 (-)	2 (-)	2 (-)	2 (-)
Herb	<i>*Medicago polymorpha</i>	25 (100)	1 (1)	1 (1)	1 (1)
Herb	<i>*Mesembryanthemum crystallinum</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>*Oxalis pes-caprae</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>*Raphanus sativus</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>*Sonchus oleraceus</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)

Keckiella antirrhinoides Alliance

Keckiella antirrhinoides-Artemisia californica Association

Samples Used To Describe Association (n= 24)

Rapid Assessment(s), WR and WSD stands: SUNN.005, SDRP0440, SDRP0480, SDG0069, SDRP0135, CLNF.059, RECA.022, SDRP0084, SDRP0463, 0611TK01, 1478MB01, CLNF.060, SDRP0318, 1493PG01, RECA.012, SDRP0070, SDRP0429, 1352EB01, 1548JD01, 0520TK03, 0520AK02, SDRP0464, SDRP0263

Rapid Assessment(s), OC stands (n=1): 1279EK01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	55.2 (55.0)	37-90 (55-55)	-
Herb cover (%)	19.4 (-)	3-50 (-)	0-2 (-)
Shrub cover (%)	52.7 (55.0)	37-75 (55-55)	0-5 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	1-5 (-)
Overstory tree cover (%)	0.5 (-)	0.2-1 (-)	2-10 (-)

Local Environmental Description (All stands, OC stands)

Aspect: NE (15,0), NW (6,0), SE (2,1), Variable (1,0)

Macrotopography: bottom to mid 1/3 of slope (1,0), upper 1/3 of slope (3,0), middle to upper 1/3 of slope (1,0), middle 1/3 of slope (9,1), lower to upper 1/3 of slope (2,0), lower 1/3 of slope (2,0), lower to middle 1/3 of slope (6,0)

Microtopography: undulating (7,1), flat (2,0), Concave (3,0), convex (12,0)

Parent material: granitic (20,0), metamorphic (2,1), mixed igneous (1,0)

Soil texture: clay loam (6,0), loam (3,0), sandy loam (12,0), clay (1,0)

Category	Average	Range
Elevation (ft)	967 (1975)	302-2129 (1975-1975)
Slope (degrees)	27 (38.0)	4-45 (38-38)
Large rock cover (%)	9.1 (-)	0-48 (-)
Small rock cover (%)	4.1 (-)	0-18 (-)
Bare ground cover (%)	30.2 (-)	0-85 (-)
Litter cover (%)	32.7 (-)	0-83 (-)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Artemisia californica</i>	100 (100)	10.8 (8)	0.2 (8)	45 (8)
Shrub	<i>Keckiella antirrhinoides</i>	96 (100)	18.3 (36)	4 (36)	80 (36)
Shrub	<i>Malosma laurina</i>	75 (100)	6.6 (1)	1 (1)	23 (1)
Shrub	<i>Eriogonum fasciculatum</i>	71 (-)	3.8 (-)	0.2 (-)	14 (-)
Shrub	<i>Salvia apiana</i>	58 (100)	2.6 (8)	0.2 (8)	15 (8)
Shrub	<i>Mimulus aurantiacus</i>	42 (100)	1.4 (0.2)	0.2 (0.2)	4 (0.2)
Shrub	<i>Adenostoma fasciculatum</i>	33 (-)	3.5 (-)	0.2 (-)	10 (-)
Shrub	<i>Rhus ovata</i>	29 (-)	4.9 (-)	0.2 (-)	26 (-)
Shrub	<i>Cneoridium dumosum</i>	25 (-)	4.5 (-)	1 (-)	9 (-)
Shrub	<i>Rhamnus crocea</i>	25 (-)	2.7 (-)	0.2 (-)	10 (-)
Shrub	<i>Sambucus mexicana</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Sambucus nigra subsp. caerulea</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>*Bromus madritensis</i>	71 (-)	6.3 (-)	0.2 (-)	18 (-)
Herb	<i>*Hirschfeldia incana</i>	50 (-)	2.4 (-)	0.2 (-)	7 (-)
Herb	<i>*Centaurea melitensis</i>	29 (-)	1.7 (-)	0.2 (-)	6 (-)



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Herb	<i>*Hypochaeris glabra</i>	25 (-)	2.8 (-)	0.2 (-)	15 (-)
Herb	<i>Marah macrocarpus var. macrocarpus</i>	25 (-)	1.3 (-)	0.2 (-)	7 (-)
Herb	<i>Phacelia cicutaria var. hispida</i>	25 (-)	2.1 (-)	0.2 (-)	7 (-)

***Lepidospartum squamatum* Alliance**

***Lepidospartum squamatum* (Alliance Only)**

Samples Used To Describe Association (n= 1)

Rapid Assessment(s), WR and WSD stands: None
Rapid Assessment(s), OC stands (n=1): 1250EK01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	17.0 (17.0)	17-17 (17-17)	-
Herb cover (%)	10.0 (10.0)	10-10 (10-10)	0-0.5 (0-0.5)
Shrub cover (%)	7.0 (7.0)	7-7 (7-7)	0.5-1 (0.5-1)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

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Local Environmental Description (All stands, OC stands)

Aspect: N (1,1)

Macrotopography: bottom (1,1)

Microtopography: undulating (1,1)

Parent material: mixed alluvium (1,1)

Soil texture: sand (1,1)

Category	Average	Range
Elevation (ft)	1152 (1152)	1152-1152 (1152-1152)
Slope (degrees)	2 (2.0)	2-2 (2-2)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	75.0 (75.0)	75-75 (75-75)
Bare ground cover (%)	19.0 (19.0)	19-19 (19-19)
Litter cover (%)	5.0 (5.0)	5-5 (5-5)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	* <i>Nicotiana glauca</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Tree	<i>Platanus racemosa</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Acmispon glaber</i>	100 (100)	6 (6)	6 (6)	6 (6)
Shrub	<i>Acmispon heermannii</i>	100 (100)	1 (1)	1 (1)	1 (1)
Shrub	<i>Artemisia californica</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Astragalus trichopodus</i>	100 (100)	1 (1)	1 (1)	1 (1)
Shrub	<i>Baccharis salicifolia</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Brickellia californica</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Eriophyllum confertiflorum</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Lepidospartum squamatum</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Acmispon strigosus</i>	100 (100)	1 (1)	1 (1)	1 (1)
Herb	* <i>Anagallis arvensis</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Artemisia douglasiana</i>	100 (100)	1 (1)	1 (1)	1 (1)
Herb	* <i>Bromus madritensis</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Calystegia macrostegia</i>	100 (100)	2 (2)	2 (2)	2 (2)
Herb	* <i>Centaurea melitensis</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Cryptantha muricata</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Hirschfeldia incana</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Hoita</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Logfia gallica</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Lupinus hirsutissimus</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Marrubium vulgare</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Melilotus albus</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Melilotus indicus</i>	100 (100)	1 (1)	1 (1)	1 (1)
Herb	* <i>Oxalis californica</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Phacelia cicutaria</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Phacelia minor</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Plantago major</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Salvia columbariae</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)



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Herb	<i>Scrophularia californica</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Sonchus asper</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Stipa miliacea</i> var. <i>miliacea</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Trifolium obtusiflorum</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Verbascum virgatum</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

***Lepidospartum squamatum* Alliance**
***Lepidospartum squamatum-Baccharis salicifolia* Association**

Samples Used To Describe Association (n= 8)

Rapid Assessment(s), WR and WSD stands: BEAU.016, BEAU.008/574, LAEL.003/511, ANZA.069

Rapid Assessment(s), OC stands (n=4): 1056EK02, 1088EK01, 1092EK01, 1133EK02

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	18.1 (19.3)	11-28 (15-28)	-
Herb cover (%)	5.5 (6.3)	1-10 (3-8)	0-5 (0-0.5)
Shrub cover (%)	13.5 (13.0)	8-25 (8-25)	0.5-2 (0.5-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	2-5 (-)
Overstory tree cover (%)	2.0 (-)	2-2 (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: Flat (1,0), SW (3,1), S (3,3), SE (1,0)

Macrotopography: bottom (8,4)

Microtopography: Flat (5,1), undulating (3,3)

Parent material: granitic (1,0), mixed alluvium (1,1), sandstone (1,1), sandy alluvium (3,0)

Soil texture: sand (8,4)

Category	Average	Range
Elevation (ft)	1338 (554)	440-3219 (440-705)
Slope (degrees)	1 (0.8)	0-2 (0-1)
Large rock cover (%)	1.6 (-)	0-10 (-)
Small rock cover (%)	66.3 (58.7)	45-98 (45-75)
Bare ground cover (%)	28.6 (40.0)	0-53 (24-53)
Litter cover (%)	1.4 (0.3)	0-5 (0-1)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	* <i>Nicotiana glauca</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Tree	<i>Platanus racemosa</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Tree	* <i>Schinus</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Baccharis salicifolia</i>	100 (100)	2.9 (0.9)	0.2 (0.2)	11 (2)
Shrub	<i>Lepidospartum squamatum</i>	100 (100)	7.9 (7.8)	2 (2)	19 (19)
Shrub	<i>Eriogonum fasciculatum</i>	75 (100)	0.8 (0.9)	0.2 (0.2)	3 (3)
Shrub	<i>Acmispon glaber</i>	50 (75)	2.8 (3.3)	1 (1)	6 (6)
Shrub	<i>Artemisia californica</i>	50 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Lotus scoparius</i>	50 (-)	2.8 (-)	1 (-)	6 (-)
Shrub	<i>Brickellia californica</i>	38 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Acmispon heermannii</i>	25 (50)	0.6 (0.6)	0.2 (0.2)	1 (1)
Shrub	<i>Bebbia juncea</i>	25 (25)	0.6 (0.2)	0.2 (0.2)	1 (0.2)
Shrub	<i>Opuntia littoralis</i>	25 (50)	1.1 (1.1)	0.2 (0.2)	2 (2)
Shrub	<i>Salvia apiana</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus madritensis</i>	88 (75)	0.7 (0.2)	0.2 (0.2)	3 (0.2)
Herb	* <i>Brassica nigra</i>	50 (100)	0.4 (0.4)	0.2 (0.2)	1 (1)
Herb	* <i>Bromus diandrus</i>	50 (100)	1.3 (1.3)	0.2 (0.2)	2 (2)

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Herb	<i>*Centaurea melitensis</i>	50 (100)	0.4 (0.4)	0.2 (0.2)	1 (1)
Herb	<i>*Erodium cicutarium</i>	50 (75)	0.4 (0.2)	0.2 (0.2)	1 (0.2)
Herb	<i>Phacelia minor</i>	50 (75)	0.4 (0.2)	0.2 (0.2)	1 (0.2)
Herb	<i>*Sonchus asper</i>	50 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Acmispon strigosus</i>	38 (75)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Ambrosia psilostachya</i>	38 (75)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Artemisia douglasiana</i>	38 (75)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Calystegia macrostegia</i>	38 (75)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Cryptantha muricata</i>	38 (75)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Hirschfeldia incana</i>	38 (-)	1.7 (-)	0.2 (-)	4 (-)
Herb	<i>*Hypochaeris glabra</i>	38 (75)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Logfia gallica</i>	38 (75)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Lupinus bicolor</i>	38 (75)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Anagallis arvensis</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Arundo donax</i>	25 (25)	2.6 (0.2)	0.2 (0.2)	5 (0.2)
Herb	<i>*Avena barbata</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Bromus tectorum</i>	25 (-)	0.6 (-)	0.2 (-)	1 (-)
Herb	<i>Camissoniopsis bistorta</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Chaenactis glabriuscula</i>	25 (25)	1 (1)	1 (1)	1 (1)
Herb	<i>Corethrogyne filaginifolia</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Cryptantha intermedia</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Cynodon dactylon</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Heterotheca grandiflora</i>	25 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Lessingia filaginifolia</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Lupinus hirsutissimus</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Lupinus sparsiflorus</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Melilotus indicus</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Phacelia cicutaria</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Pseudognaphalium californicum</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Pseudognaphalium stramineum</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Scrophularia californica</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Stachys</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Stipa miliacea var. miliacea</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Trifolium obtusiflorum</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

***Lepidospartum squamatum* Alliance**

***Lepidospartum squamatum-Eriogonum fasciculatum* Association**

Samples Used To Describe Association (n= 7)

Rapid Assessment(s), WR and WSD stands: AGUA.008, AGUA.009/848, BEAU.004/BPU#222075/12, ANZA.014
Rapid Assessment(s), OC stands (n=3): 1088EK02, 1133EK04, 1142EK01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	41.4 (30.3)	20-60 (20-42)	-
Herb cover (%)	16.4 (5.7)	3-40 (3-8)	0-1 (0-0.5)
Shrub cover (%)	26.9 (24.7)	17-43 (17-34)	0.5-2 (0.5-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	1-5 (-)
Overstory tree cover (%)	0.2 (0.2)	0.2-0.2 (0.2-0.2)	2-5 (2-5)

Local Environmental Description (All stands, OC stands)

Aspect: Flat (3,1), NW (1,0), SE (1,0), SW (2,2)

Macrotopography: bottom (5,2), bottom to lower 1/3 of slope (1,1), lower 1/3 of slope (1,0)

Microtopography: flat (6,2), undulating (1,1)

Parent material: granitic (3,0), mixed alluvium (2,2), sandstone (1,1), sandy alluvium (1,0)

Soil texture: sandy loam (2,0), sand (5,3)

Category	Average	Range
Elevation (ft)	2154 (672)	551-3828 (551-820)
Slope (degrees)	1 (0.7)	0-3 (0-1)
Large rock cover (%)	1.1 (-)	0-6 (-)
Small rock cover (%)	54.3 (39.0)	22-84 (22-65)
Bare ground cover (%)	33.6 (52.7)	1-77 (25-77)
Litter cover (%)	8.6 (6.7)	0-18 (0-12)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Eriogonum fasciculatum</i>	100 (100)	9.4 (14)	2 (8)	25 (25)
Shrub	<i>Lepidospartum squamatum</i>	100 (100)	8.4 (4)	1 (1)	22 (7)
Shrub	<i>Acmispon glaber</i>	57 (67)	1.6 (1.1)	0.2 (0.2)	3 (2)
Shrub	<i>Lotus scoparius</i>	57 (-)	1.6 (-)	0.2 (-)	3 (-)
Shrub	<i>Hesperoyucca whipplei</i>	43 (100)	0.5 (0.5)	0.2 (0.2)	1 (1)
Shrub	<i>Opuntia littoralis</i>	43 (100)	1.7 (1.7)	0.2 (0.2)	3 (3)
Shrub	<i>Opuntia parryi</i>	43 (-)	6.3 (-)	3 (-)	11 (-)
Shrub	<i>Sambucus mexicana</i>	43 (-)	1.1 (-)	0.2 (-)	2 (-)
Shrub	<i>Artemisia californica</i>	29 (67)	1.1 (1.1)	0.2 (0.2)	2 (2)
Shrub	<i>Baccharis salicifolia</i>	29 (67)	1.1 (1.1)	0.2 (0.2)	2 (2)
Shrub	<i>Brickellia californica</i>	29 (67)	1.6 (1.6)	0.2 (0.2)	3 (3)
Shrub	<i>Malosma laurina</i>	29 (67)	1.1 (1.1)	0.2 (0.2)	2 (2)
Shrub	<i>Prunus ilicifolia</i>	29 (-)	1.1 (-)	0.2 (-)	2 (-)
Shrub	<i>Ribes quercetorum</i>	29 (-)	0.6 (-)	0.2 (-)	1 (-)
Shrub	<i>Salvia apiana</i>	29 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Senecio flaccidus</i>	29 (-)	2 (-)	2 (-)	2 (-)
Herb	* <i>Bromus madritensis</i>	71 (100)	1.5 (0.5)	0.2 (0.2)	4 (1)

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Herb	<i>*Bromus diandrus</i>	57 (33)	2.6 (0.2)	0.2 (0.2)	4 (0.2)
Herb	<i>Cryptantha intermedia</i>	57 (67)	2.1 (2.1)	0.2 (0.2)	4 (4)
Herb	<i>*Avena barbata</i>	43 (67)	6.8 (0.2)	0.2 (0.2)	20 (0.2)
Herb	<i>Camissonia bistorta</i>	43 (-)	2.1 (-)	0.2 (-)	5 (-)
Herb	<i>Camissoniopsis bistorta</i>	43 (33)	2.1 (0.2)	0.2 (0.2)	5 (0.2)
Herb	<i>*Hirschfeldia incana</i>	43 (33)	1.1 (1)	0.2 (1)	2 (1)
Herb	<i>*Brassica nigra</i>	29 (67)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Bromus tectorum</i>	29 (-)	13 (-)	12 (-)	14 (-)
Herb	<i>*Centaurea melitensis</i>	29 (67)	0.6 (0.6)	0.2 (0.2)	1 (1)
Herb	<i>*Erodium cicutarium</i>	29 (67)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Festuca myuros</i>	29 (67)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Filago gallica</i>	29 (-)	1.6 (-)	0.2 (-)	3 (-)
Herb	<i>*Hypochaeris glabra</i>	29 (67)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Logfia gallica</i>	29 (33)	1.6 (0.2)	0.2 (0.2)	3 (0.2)
Herb	<i>Lotus strigosus</i>	29 (-)	1 (-)	1 (-)	1 (-)
Herb	<i>Lupinus concinnus</i>	29 (-)	1.5 (-)	1 (-)	2 (-)

***Lycium californicum* Alliance**

***Lycium californicum* Association**

Samples Used To Describe Association (n= 8)

Rapid Assessment(s), WR and WSD stands: 1710JD01, 0312TK22, 0312RB21, 0312TK21, 0503AK21, 0707TK04

Rapid Assessment(s), OC stands (n=2): 1071EK01, 1406EK02

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	40.8 (34.5)	24-58 (24-45)	-
Herb cover (%)	20.6 (2.1)	0.2-44 (0.2-4)	0-0.5 (0-0.5)
Shrub cover (%)	32.5 (32.5)	23-42 (23-42)	0-2 (0-1)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: NW (1,0), SE (2,0), SW (4,2), Variable (1,0)

Macrotopography: bottom to lower 1/3 of slope (1,0), lower 1/3 of slope (3,1), lower to middle 1/3 of slope (1,1), lower to upper 1/3 of slope (1,0), middle to upper 1/3 of slope (1,0), bottom (1,0)

Microtopography: concave (1,1), convex (2,0), flat (1,0), undulating (4,1)

Parent material: mixed alluvium (1,0), sandstone (3,2), sandy alluvium (2,0), siltstone (1,0)

Soil texture: sandy loam (3,0), sand (2,2), clay (1,0), clay loam (2,0)

Category	Average	Range
Elevation (ft)	35 (5)	0-148 (0-10)
Slope (degrees)	23 (65.0)	0-70 (60-70)
Large rock cover (%)	0.6 (2.5)	0-5 (0-5)
Small rock cover (%)	4.8 (15.0)	0-20 (10-20)
Bare ground cover (%)	45.3 (51.5)	0-86 (49-54)
Litter cover (%)	42.6 (29.5)	5-85 (20-39)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Lycium californicum</i>	100 (100)	11.9 (12.5)	2 (5)	23 (20)
Shrub	<i>Cylindropuntia prolifera</i>	88 (100)	2.8 (0.2)	0.2 (0.2)	8 (0.2)
Shrub	<i>Eriogonum fasciculatum</i>	63 (50)	3.6 (3)	0.2 (3)	7 (3)
Shrub	<i>Artemisia californica</i>	38 (-)	2.7 (-)	1 (-)	4 (-)
Shrub	* <i>Atriplex semibaccata</i>	38 (50)	0.5 (1)	0.2 (1)	1 (1)
Shrub	<i>Encelia californica</i>	38 (100)	0.7 (0.6)	0.2 (0.2)	1 (1)
Shrub	<i>Isocoma menziesii</i>	38 (50)	1.5 (0.2)	0.2 (0.2)	4 (0.2)
Shrub	<i>Opuntia littoralis</i>	25 (50)	0.6 (0.2)	0.2 (0.2)	1 (0.2)
Shrub	<i>Peritoma arborea</i> var. <i>arborea</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Rhus integrifolia</i>	25 (100)	15.1 (15.1)	0.2 (0.2)	30 (30)
Herb	* <i>Bromus madritensis</i>	63 (-)	19.8 (-)	4 (-)	30 (-)
Herb	<i>Distichlis spicata</i>	63 (50)	1.1 (3)	0.2 (3)	3 (3)
Herb	<i>Arthrocnemum subterminale</i>	50 (-)	3.3 (-)	0.2 (-)	7 (-)
Herb	<i>Frankenia salina</i>	50 (-)	2.8 (-)	0.2 (-)	7 (-)
Herb	* <i>Oxalis pes-caprae</i>	38 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Amblyopappus pusillus</i>	25 (-)	1.6 (-)	0.2 (-)	3 (-)
Herb	<i>Antirrhinum nuttallianum</i>	25 (-)	5 (-)	2 (-)	8 (-)
Herb	* <i>Avena barbata</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Bromus diandrus</i>	25 (-)	6 (-)	4 (-)	8 (-)
Herb	* <i>Centaurea melitensis</i>	25 (-)	3 (-)	2 (-)	4 (-)
Herb	<i>Cressa truxillensis</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Deinandra fasciculata</i>	25 (-)	3.5 (-)	3 (-)	4 (-)
Herb	* <i>Festuca myuros</i>	25 (-)	0.6 (-)	0.2 (-)	1 (-)
Herb	<i>Pterostegia drymarioides</i>	25 (-)	4 (-)	3 (-)	5 (-)
Herb	* <i>Salsola tragus</i>	25 (50)	1.1 (0.2)	0.2 (0.2)	2 (0.2)
Herb	* <i>Sonchus oleraceus</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Sporobolus airoides</i>	25 (-)	0.6 (-)	0.2 (-)	1 (-)
Herb	<i>Suaeda taxifolia</i>	25 (100)	0.6 (0.6)	0.2 (0.2)	1 (1)

Malacothamnus fasciculatus Alliance

Malacothamnus fasciculatus Association

Samples Used To Describe Association (n= 11)

Rapid Assessment(s), WR and WSD stands: 1526MM02, 1817TK01, 1525EB01, 0422RB02, 1531EB03

Rapid Assessment(s), OC stands (n=6): 1204EK02, 1204EK03, 1253EK01, 1289MA02, 1298EK01, 1426EK01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	52.4 (52.0)	31-70 (31-70)	-
Herb cover (%)	10.6 (6.0)	0.2-30 (0.2-21)	0-1 (0-1)
Shrub cover (%)	47.8 (47.8)	30-67 (30-67)	1-5 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	0.2 (0.2)	0.2-0.2 (0.2-0.2)	2-5 (2-5)

Local Environmental Description (All stands, OC stands)

Aspect: NE (2,1), NW (1,0), S (2,2), SE (4,1), W (1,1), N (1,1)

Macrotopography: lower to upper 1/3 of slope (1,0), middle 1/3 of slope (3,3), lower to middle 1/3 of slope (1,1), lower 1/3 of slope (2,0), bottom to lower 1/3 of slope (1,0), bottom (1,0), middle to upper 1/3 of slope (2,2)

Microtopography: undulating (3,1), concave (2,1), convex (1,0), flat (5,4)

Parent material: diorite (1,0), sandstone (5,5)

Soil texture: clay loam (4,3), loam (2,2), sandy loam (5,1)

Category	Average	Range
Elevation (ft)	755 (904)	128-1270 (538-1270)
Slope (degrees)	23 (30.8)	0-48 (9-48)
Large rock cover (%)	9.1 (-)	0-45 (-)
Small rock cover (%)	16.6 (1.1)	0-67 (0-3)
Bare ground cover (%)	33.8 (36.0)	2-79 (12-52)
Litter cover (%)	38.6 (60.4)	2-82 (45-82)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Malacothamnus fasciculatus</i>	100 (100)	27.5 (28.8)	10 (10)	60 (60)
Shrub	<i>Malosma laurina</i>	100 (100)	3.8 (1.9)	0.2 (0.2)	9 (5)
Shrub	<i>Artemisia californica</i>	91 (100)	2.7 (3.2)	0.2 (1)	8 (8)
Shrub	<i>Salvia mellifera</i>	73 (100)	2.5 (0.7)	0.2 (0.2)	15 (1)
Shrub	<i>Acmispon glaber</i>	55 (83)	10.3 (11.4)	5 (5)	22 (22)
Shrub	<i>Rhus integrifolia</i>	36 (50)	1.3 (1.1)	0.2 (0.2)	2 (2)
Shrub	<i>Salvia apiana</i>	36 (17)	0.4 (1)	0.2 (1)	1 (1)
Shrub	<i>Eriogonum fasciculatum</i>	27 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Heteromeles arbutifolia</i>	27 (33)	4.7 (6.5)	1 (1)	12 (12)
Shrub	<i>Mimulus aurantiacus</i>	27 (17)	2.1 (1)	0.2 (1)	5 (1)
Shrub	<i>Sambucus nigra subsp. caerulea</i>	27 (50)	0.5 (0.5)	0.2 (0.2)	1 (1)
Herb	* <i>Bromus madritensis</i>	45 (50)	3.6 (3.1)	0.2 (0.2)	7 (5)
Herb	* <i>Hirschfeldia incana</i>	45 (67)	0.8 (0.2)	0.2 (0.2)	3 (0.2)
Herb	* <i>Centaurea melitensis</i>	36 (33)	1.5 (2)	1 (2)	2 (2)
Herb	<i>Calystegia macrostegia</i>	27 (-)	1.1 (-)	0.2 (-)	3 (-)

Malosma laurina Alliance

Malosma laurina (Alliance Only)

Samples Used To Describe Association (n= 5)

Rapid Assessment(s), WR and WSD stands: CORN.005/436, CLNF.009, CLNF.120

Rapid Assessment(s), OC stands (n=2): 1110EK05, 1425MA01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	61.6 (76.0)	35-77 (75-77)	-
Herb cover (%)	22.4 (25.6)	0.2-51 (0.2-51)	0-1 (0-1)
Shrub cover (%)	39.6 (47.5)	20-75 (20-75)	0.5-5 (2-5)
Tall shrub / low tree cover (%)	- (-)	- (-)	2-5 (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: Flat (1,0), N (1,1), NE (1,0), NW (1,0), SE (1,1)
Macrotopography: upper 1/3 of slope (3,1), bottom (1,0), lower to middle 1/3 of slope (1,1)
Microtopography: concave (1,1), Convex (1,0), Flat (1,0), undulating (2,1)
Parent material: granitic (1,0), sandstone (1,1), sedimentary (1,0), silty alluvium (1,0)
Soil texture: loam (1,0), clay loam (1,1), sandy loam (3,1)

Category	Average	Range
Elevation (ft)	1331 (727)	702-2949 (702-751)
Slope (degrees)	19 (23.0)	1-26 (20-26)
Large rock cover (%)	12.0 (-)	0-45 (-)
Small rock cover (%)	15.6 (1.0)	0-38 (0-2)
Bare ground cover (%)	20.4 (18.5)	5-32 (5-32)
Litter cover (%)	47.6 (77.0)	5-89 (65-89)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Malosma laurina</i>	100 (100)	21.6 (31)	11 (12)	50 (50)
Shrub	<i>Artemisia californica</i>	40 (-)	0.6 (-)	0.2 (-)	1 (-)
Shrub	<i>Heteromeles arbutifolia</i>	40 (50)	10.5 (15)	6 (15)	15 (15)
Shrub	<i>Mimulus aurantiacus</i>	40 (50)	18.5 (30)	7 (30)	30 (30)
Shrub	<i>Rhus integrifolia</i>	40 (100)	3 (3)	2 (2)	4 (4)
Shrub	<i>Romneya coulteri</i>	40 (-)	3.6 (-)	0.2 (-)	7 (-)
Shrub	<i>Salvia mellifera</i>	40 (-)	1.6 (-)	0.2 (-)	3 (-)
Herb	* <i>Bromus madritensis</i>	40 (50)	6.5 (12)	1 (12)	12 (12)
Herb	* <i>Centaurea melitensis</i>	40 (50)	4.5 (7)	2 (7)	7 (7)
Herb	<i>Elymus condensatus</i>	40 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Erodium cicutarium</i>	40 (-)	3.6 (-)	0.2 (-)	7 (-)
Herb	* <i>Hirschfeldia incana</i>	40 (-)	3.6 (-)	0.2 (-)	7 (-)
Herb	<i>Marah macrocarpus</i>	40 (-)	4 (-)	2 (-)	6 (-)

Malosma laurina Alliance

Malosma laurina-Acmispon glaber Association

Samples Used To Describe Association (n= 37)

Rapid Assessment(s), WR and WSD stands: SDRP0427, 1529MM01, 1604EB01, 0422RB01, 0422AK04, SDRP0477, 1393KG02, SDG0020, 0506TK02, 1539PJ01, 0422RB03, 0611AK01, 1327KH01, 1069FS02, 0519AK01, 0507DH02, 0519RB01, SDG0103, 0422AK02, 1216MM01, SDG0052, SDG0039, SDG0008, SDG0116, SDG0031, SDG0040, SDG0108, 1536EB01, 0421RB01, SDG0109, 1539PG02, SDG0048, 0603JJ02, 1216MB01, 1538JD01, 0423AK01

Rapid Assessment(s), OC stands (n=1): 1218EK01

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Local Vegetation Description	All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)		42.0 (34.0)	10-85 (34-34)	-
Herb cover (%)		22.9 (6.0)	2-65 (6-6)	0-1 (0.5-1)
Shrub cover (%)		28.0 (28.0)	28-28 (28-28)	0-5 (1-2)
Tall shrub / low tree cover (%)		- (-)	- (-)	5-10 (-)
Overstory tree cover (%)		2.1 (-)	0.2-5 (-)	2-10 (-)

Local Environmental Description (All stands, OC stands)

Aspect: SE (14,0), SW (11,1), NW (4,0), NE (7,0), Flat (1,0)

Macrotopography: middle 1/3 of slope to ridgetop (2,0), upper 1/3 of slope (2,0), ridge top (1,0), middle to upper 1/3 of slope (5,1), middle 1/3 of slope (12,0), lower to upper 1/3 of slope (4,0), lower to middle 1/3 of slope (2,0), bottom to lower 1/3 of slope (1,0), upper 1/3 of slope to ridgetop (1,0), lower 1/3 of slope (6,0)

Microtopography: flat (2,0), undulating (22,0), convex (6,0), concave (6,1)

Parent material: gabbro (2,0), granitic (16,0), metamorphic (1,0), phyllite (1,0), quartz diorite (1,0), sandstone (1,1), sedimentary (1,0)

Soil texture: clay loam (7,0), loam (3,0), sand (1,0), sandy loam (18,1), silty loam (1,0), clay (1,0)

Category	Average	Range
Elevation (ft)	1019 (1467)	371-1654 (1467-1467)
Slope (degrees)	20 (28.0)	0-45 (28-28)
Large rock cover (%)	9.0 (-)	0-63 (-)
Small rock cover (%)	17.9 (2.0)	0-75 (2-2)
Bare ground cover (%)	30.4 (56.0)	0-94 (56-56)
Litter cover (%)	21.7 (40.0)	0-82 (40-40)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Malosma laurina</i>	100 (100)	8.9 (10)	2 (10)	23 (10)
Shrub	<i>Artemisia californica</i>	76 (100)	1.2 (1)	0.2 (1)	5 (1)
Shrub	<i>Acmispon glaber</i>	65 (100)	8 (8)	0.2 (8)	26 (8)
Shrub	<i>Salvia apiana</i>	62 (100)	1.1 (0.2)	0.2 (0.2)	4 (0.2)
Shrub	<i>Eriogonum fasciculatum</i>	51 (-)	1.7 (-)	0.2 (-)	8 (-)
Shrub	<i>Hesperoyucca whipplei</i>	38 (100)	0.4 (0.2)	0.2 (0.2)	1 (0.2)
Shrub	<i>Rhamnus crocea</i>	35 (-)	2 (-)	0.2 (-)	15 (-)
Shrub	<i>Mimulus aurantiacus</i>	30 (100)	0.6 (0.2)	0.2 (0.2)	4 (0.2)
Shrub	<i>Eriophyllum confertiflorum var. confertiflorum</i>	27 (-)	1.9 (-)	0.2 (-)	6 (-)
Herb	* <i>Bromus madritensis</i>	57 (-)	6.4 (-)	1 (-)	15 (-)
Herb	* <i>Centaurea melitensis</i>	49 (100)	2.4 (1)	0.2 (1)	10 (1)
Herb	* <i>Hirschfeldia incana</i>	43 (-)	6.3 (-)	0.2 (-)	50 (-)
Herb	* <i>Festuca myuros</i>	41 (-)	3.7 (-)	0.2 (-)	12 (-)
Herb	* <i>Avena barbata</i>	35 (-)	5 (-)	0.2 (-)	23 (-)
Herb	<i>Calystegia macrostegia</i>	32 (-)	4 (-)	0.2 (-)	18 (-)
Herb	* <i>Hypochaeris glabra</i>	30 (-)	5.1 (-)	0.2 (-)	20 (-)
Herb	<i>Marah macrocarpus var. macrocarpus</i>	27 (-)	0.4 (-)	0.2 (-)	1 (-)

Malosma laurina Alliance

Malosma laurina-Artemisia californica Association

Samples Used To Describe Association (n= 1)

Rapid Assessment(s), WR and WSD stands: None

Rapid Assessment(s), OC stands (n=1): 1218EK03

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	35.0 (35.0)	35-35 (35-35)	-
Herb cover (%)	3.0 (3.0)	3-3 (3-3)	0-0.5 (0-0.5)
Shrub cover (%)	32.0 (32.0)	32-32 (32-32)	1-2 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: NE (1,1)

Macrotopography:

Microtopography: flat (1,1)

Parent material: sandstone (1,1)

Soil texture: sandy loam (1,1)

Category	Average	Range
Elevation (ft)	1368 (1368)	1368-1368 (1368-1368)
Slope (degrees)	32 (32.0)	32-32 (32-32)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	2.0 (2.0)	2-2 (2-2)
Bare ground cover (%)	66.0 (66.0)	66-66 (66-66)
Litter cover (%)	30.0 (30.0)	30-30 (30-30)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Acmispon glaber</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Artemisia californica</i>	100 (100)	15 (15)	15 (15)	15 (15)
Shrub	<i>Cylindropuntia prolifera</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Eriogonum fasciculatum</i>	100 (100)	1 (1)	1 (1)	1 (1)
Shrub	<i>Malacothamnus fasciculatus</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Malosma laurina</i>	100 (100)	15 (15)	15 (15)	15 (15)
Shrub	<i>Mimulus aurantiacus</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Opuntia littoralis</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Salvia mellifera</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus diandrus</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus madritensis</i>	100 (100)	2 (2)	2 (2)	2 (2)

Opuntia littoralis Alliance

Opuntia littoralis-Eriogonum fasciculatum-Malosma laurina Association

Samples Used To Describe Association (n= 7)

Rapid Assessment(s), WR and WSD stands: None

Rapid Assessment(s), OC stands (n=7): 1086EK01, 1092EK02, 1347EK01, 1463EK02, 1472EK01, 1479EK01, 1513EK06

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	34.7 (34.7)	18-65 (18-65)	-
Herb cover (%)	4.7 (4.7)	0.2-10 (0.2-10)	0-0.5 (0-0.5)
Shrub cover (%)	31.0 (31.0)	15-65 (15-65)	0.5-2 (0.5-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	2.1 (2.1)	0.2-4 (0.2-4)	5-10 (5-10)

Local Environmental Description (All stands, OC stands)

Aspect: SW (2,2), S (4,4), SE (1,1)

Macrotopography: lower to middle 1/3 of slope (1,1), middle 1/3 of slope (3,3), lower 1/3 of slope (1,1), bottom to lower 1/3 of slope (1,1), upper 1/3 of slope (1,1)

Microtopography: undulating (5,5), flat (2,2)

Parent material: sandstone (7,7)

Soil texture: sand (3,3), sandy loam (2,2)

Category	Average	Range
Elevation (ft)	582 (582)	0-1056 (0-1056)
Slope (degrees)	27 (27.3)	1-75 (1-75)
Large rock cover (%)	10.7 (10.7)	0-64 (0-64)
Small rock cover (%)	3.2 (3.2)	0-10 (0-10)
Bare ground cover (%)	50.3 (50.3)	25-67 (25-67)
Litter cover (%)	33.8 (33.8)	8-65 (8-65)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Quercus agrifolia</i>	29 (29)	1.1 (1.1)	0.2 (0.2)	2 (2)
Shrub	<i>Eriogonum fasciculatum</i>	100 (100)	5 (5)	1 (1)	14 (14)
Shrub	<i>Opuntia littoralis</i>	86 (86)	9 (9)	4 (4)	20 (20)
Shrub	<i>Rhus integrifolia</i>	71 (71)	2 (2)	1 (1)	5 (5)
Shrub	<i>Artemisia californica</i>	57 (57)	0.9 (0.9)	0.2 (0.2)	2 (2)
Shrub	<i>Malosma laurina</i>	57 (57)	7.1 (7.1)	0.2 (0.2)	25 (25)
Shrub	<i>Sambucus nigra subsp. caerulea</i>	57 (57)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Acmispon glaber</i>	43 (43)	3.4 (3.4)	0.2 (0.2)	8 (8)
Shrub	<i>Hesperoyucca whipplei</i>	43 (43)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Baccharis pilularis</i>	29 (29)	0.6 (0.6)	0.2 (0.2)	1 (1)
Shrub	<i>Brickellia californica</i>	29 (29)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Cylindropuntia prolifera</i>	29 (29)	3.5 (3.5)	2 (2)	5 (5)
Shrub	<i>Encelia californica</i>	29 (29)	13.5 (13.5)	1 (1)	26 (26)
Shrub	<i>Mimulus aurantiacus</i>	29 (29)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Salvia mellifera</i>	29 (29)	0.6 (0.6)	0.2 (0.2)	1 (1)
Herb	* <i>Avena barbata</i>	43 (43)	0.5 (0.5)	0.2 (0.2)	1 (1)

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Herb	<i>*Bromus diandrus</i>	43 (43)	3 (3)	1 (1)	6 (6)
Herb	<i>*Brassica nigra</i>	29 (29)	1.1 (1.1)	0.2 (0.2)	2 (2)
Herb	<i>*Bromus madritensis</i>	29 (29)	0.6 (0.6)	0.2 (0.2)	1 (1)
Herb	<i>*Carduus pycnocephalus</i>	29 (29)	0.6 (0.6)	0.2 (0.2)	1 (1)
Herb	<i>*Centaurea melitensis</i>	29 (29)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Crassula connata</i>	29 (29)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Dudleya pulverulenta</i>	29 (29)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Logfia gallica</i>	29 (29)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Pseudognaphalium californicum</i>	29 (29)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Scrophularia californica</i>	29 (29)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

Quercus berberidifolia Alliance
Quercus berberidifolia Association

Samples Used To Describe Association (n= 33)

Rapid Assessment(s), WR and WSD stands: 1696LS01, 1710JD12, 1702MB01, 0609AK03, SDG0053, 0506RB02, 0506RB23, 0609RB01, 1737JD04, 1304JD02, 1710JD04, 1561JD01, 1384JD01, 0610TK03, 1607MM01, SDRP0197, 1361KH01, 1613MB01, 1817TK02, 0610DH03, 1710JD09, 1702PG01, 1710JD07, 1607MM03, 1038MB01, 1645FS02

Rapid Assessment(s), OC stands (n=7): 1031EK01, 1090EK01, 1092EK04, 1100MA01, 1128MA01, 1187EK03, 1510EK02

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	60.4 (58.7)	28-88 (39-88)	-
Herb cover (%)	7.2 (2.2)	0-60 (0.2-6)	0-2 (0-1)
Shrub cover (%)	57.3 (57.3)	39-85 (39-85)	0-10 (0-10)
Tall shrub / low tree cover (%)	- (-)	- (-)	1-2 (-)
Overstory tree cover (%)	2.0 (4.0)	1-4 (4-4)	2-15 (5-10)

Local Environmental Description (All stands, OC stands)

Aspect: W (1,1), N (4,4), NE (11,1), NW (12,1), SE (2,0), SW (2,0), Variable (1,0)

Macrotopography: lower to upper 1/3 of slope (4,1), middle 1/3 of slope (4,1), upper 1/3 of slope (5,1), middle to upper 1/3 of slope (7,3), middle 1/3 of slope to ridgetop (1,0), lower 1/3 of slope (1,0), entire slope (1,0), bottom to upper 1/3 of slope (2,0), bottom (1,0), lower to middle 1/3 of slope (6,1)

Microtopography: convex (4,0), flat (10,2), undulating (13,2), concave (6,3)

Parent material: diorite (1,0), gabbro (2,0), granitic (5,0), igneous (1,0), metamorphic (5,0), sandstone (5,5)

Soil texture: clay (1,0), clay loam (8,4), loam (4,1), sandy loam (19,2), silty loam (1,0)

Category	Average	Range
Elevation (ft)	1082 (786)	213-3153 (499-1145)
Slope (degrees)	21 (28.9)	4-50 (12-50)
Large rock cover (%)	4.9 (-)	0-40 (-)
Small rock cover (%)	15.6 (2.9)	0-64 (0-10)
Bare ground cover (%)	18.6 (18.4)	1-65 (5-45)
Litter cover (%)	55.0 (77.0)	0-90 (43-90)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Quercus berberidifolia</i>	61 (100)	45.1 (43)	15 (24)	70 (65)
Shrub	<i>Heteromeles arbutifolia</i>	55 (57)	2.7 (5.3)	0.2 (1)	12 (12)
Shrub	<i>Rhus integrifolia</i>	55 (100)	4.2 (7.2)	0.2 (0.2)	20 (20)
Shrub	<i>Adenostoma fasciculatum</i>	42 (14)	3.2 (0.2)	0.2 (0.2)	15 (0.2)
Shrub	<i>Mimulus aurantiacus</i>	39 (57)	0.9 (0.9)	0.2 (0.2)	3 (2)
Shrub	<i>Quercus acutidens</i>	39 (-)	33.6 (-)	6 (-)	75 (-)
Shrub	<i>Lonicera subspicata</i>	30 (-)	1.2 (-)	0.2 (-)	5 (-)
Shrub	<i>Toxicodendron diversilobum</i>	30 (29)	2.4 (2.6)	0.2 (0.2)	6 (5)
Shrub	<i>Acmispon glaber</i>	27 (29)	2.1 (0.2)	0.2 (0.2)	7 (0.2)
Shrub	<i>Artemisia californica</i>	27 (71)	2.5 (2.5)	0.2 (0.2)	8 (5)
Herb	<i>Eriophyllum confertiflorum</i> var. <i>confertiflorum</i>	27 (-)	1.4 (-)	0.2 (-)	6 (-)
Herb	<i>Marah macrocarpus</i> var. <i>macrocarpus</i>	30 (-)	0.6 (-)	0.2 (-)	3 (-)
Herb	* <i>Festuca myuros</i>	27 (-)	2.7 (-)	0.2 (-)	7 (-)
Herb	<i>Stipa lepida</i>	27 (29)	0.5 (1.1)	0.2 (0.2)	2 (2)

***Quercus berberidifolia* Alliance**

***Quercus berberidifolia*-*Arctostaphylos glandulosa* Association**

Samples Used To Describe Association (n= 2)

Rapid Assessment(s), WR and WSD stands: None

Rapid Assessment(s), OC stands (n=2): 1180MA01, 1215EK01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	77.0 (77.0)	74-80 (74-80)	-
Herb cover (%)	0.2 (0.2)	0.2-0.2 (0.2-0.2)	0.5-1 (0.5-1)
Shrub cover (%)	80.0 (80.0)	80-80 (80-80)	2-5 (2-5)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: NE (1,1), S (1,1)

Macrotopography: upper 1/3 of slope (1,1), upper 1/3 of slope to ridgetop (1,1)

Microtopography: undulating (1,1), concave (1,1)

Parent material: granitic (1,1)

Soil texture: clay loam (1,1), sand (1,1)

Category	Average	Range
Elevation (ft)	3596 (3596)	3596-3596 (3596-3596)
Slope (degrees)	40 (40.0)	40-40 (40-40)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	2.5 (2.5)	0-5 (0-5)
Bare ground cover (%)	12.0 (12.0)	7-17 (7-17)
Litter cover (%)	82.5 (82.5)	80-85 (80-85)

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Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Adenostoma fasciculatum</i>	100 (100)	6.5 (6.5)	5 (5)	8 (8)
Shrub	<i>Arctostaphylos glandulosa</i>	100 (100)	12.5 (12.5)	10 (10)	15 (15)
Shrub	<i>Heteromeles arbutifolia</i>	100 (100)	4 (4)	1 (1)	7 (7)
Shrub	<i>Quercus berberidifolia</i>	100 (100)	45 (45)	35 (35)	55 (55)
Shrub	<i>Rhus ovata</i>	100 (100)	1.1 (1.1)	0.2 (0.2)	2 (2)
Shrub	<i>Acmispon glaber</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Ceanothus crassifolius</i>	50 (50)	5 (5)	5 (5)	5 (5)
Shrub	<i>Ceanothus leucodermis</i>	50 (50)	9 (9)	9 (9)	9 (9)
Shrub	<i>Cercocarpus betuloides var. betuloides</i>	50 (50)	7 (7)	7 (7)	7 (7)
Shrub	<i>Clematis lasiantha</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Eriogonum fasciculatum</i>	50 (50)	2 (2)	2 (2)	2 (2)
Shrub	<i>Eriophyllum confertiflorum</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Garrya flavescens</i>	50 (50)	2 (2)	2 (2)	2 (2)
Shrub	<i>Hesperoyucca whipplei</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Rhamnus ilicifolia</i>	50 (50)	1 (1)	1 (1)	1 (1)
Shrub	<i>Salvia mellifera</i>	50 (50)	2 (2)	2 (2)	2 (2)
Herb	<i>Stipa coronata</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

Quercus berberidifolia Alliance

Quercus berberidifolia-Ceanothus tomentosus Association

Samples Used To Describe Association (n= 1)

Rapid Assessment(s), WR and WSD stands: None

Rapid Assessment(s), OC stands (n=1): 1363EK01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	71.0 (71.0)	71-71 (71-71)	-
Herb cover (%)	- (-)	- (-)	- (-)
Shrub cover (%)	- (-)	- (-)	- (-)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: NW (1,1)

Macrotopography: upper 1/3 of slope (1,1)

Microtopography: flat (1,1)

Parent material: sandstone (1,1)

Soil texture: silty loam (1,1)

Category	Average	Range
Elevation (ft)	2047 (2047)	2047-2047 (2047-2047)
Slope (degrees)	5 (5.0)	5-5 (5-5)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	7.0 (7.0)	7-7 (7-7)
Bare ground cover (%)	12.0 (12.0)	12-12 (12-12)
Litter cover (%)	78.0 (78.0)	78-78 (78-78)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Acmispon glaber</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Adenostoma fasciculatum</i>	100 (100)	5 (5)	5 (5)	5 (5)
Shrub	<i>Ceanothus tomentosus</i>	100 (100)	15 (15)	15 (15)	15 (15)
Shrub	<i>Cercocarpus betuloides var. betuloides</i>	100 (100)	4 (4)	4 (4)	4 (4)
Shrub	<i>Eriodictyon crassifolium</i>	100 (100)	3 (3)	3 (3)	3 (3)
Shrub	<i>Heteromeles arbutifolia</i>	100 (100)	4 (4)	4 (4)	4 (4)
Shrub	<i>Malosma laurina</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Quercus berberidifolia</i>	100 (100)	40 (40)	40 (40)	40 (40)
Shrub	<i>Rhus ovata</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

Quercus berberidifolia Alliance

Quercus berberidifolia-Fraxinus dipetala-Heteromeles arbutifolia Association

Samples Used To Describe Association (n= 17)

Rapid Assessment(s), WR and WSD stands: CORS.004/404/BPU 19994-239, CAHUI.028/265, CAHUI.002, CLNF.038, ANZA.122/165, CORS.010/(BPU 34102-295), CLNF.013, CAHUI.027/106, CORS.008/BPU, CLNF.066, CLNF.071, CLNF.040, CLNF.044

Rapid Assessment(s), OC stands (n=4): 1179EK01, 1179MA01, 1189EK01, 1294EK02

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	70.9 (66.3)	51-90 (60-77)	-
Herb cover (%)	10.3 (0.2)	0.2-50 (0.2-0.2)	0-1 (0-0.5)
Shrub cover (%)	63.1 (53.5)	14-89 (14-77)	0.5-5 (1-5)
Tall shrub / low tree cover (%)	- (-)	- (-)	1-5 (-)
Overstory tree cover (%)	55.0 (55.0)	55-55 (55-55)	5-10 (5-10)

Local Environmental Description (All stands, OC stands)

Aspect: N (2,2), NE (8,1), NW (6,1), Variable (1,0)

Macrotopography: middle 1/3 of slope (4,1), middle 1/3 of slope to ridgetop (1,1), lower to upper 1/3 of slope (1,1), upper 1/3 of slope (11,1)

Microtopography: Convex (2,0), Undulating (15,4)

Parent material: granitic (5,0), metamorphic (3,2), sandstone (2,2), sedimentary (7,0)

Soil texture: clay loam (2,1), loam (4,0), sand (1,0), sandy loam (6,0), unknown (1,0)

Category	Average	Range
Elevation (ft)	3187 (2720)	1224-4495 (1224-3287)
Slope (degrees)	31 (36.0)	18-40 (26-40)
Large rock cover (%)	2.6 (-)	0-22 (-)
Small rock cover (%)	10.2 (1.3)	0-60 (0-5)
Bare ground cover (%)	16.9 (20.5)	3-33 (5-32)
Litter cover (%)	65.5 (75.0)	15-90 (65-87)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Fraxinus dipetala</i>	100 (100)	7.3 (9.8)	0.2 (0.2)	20 (20)
Shrub	<i>Quercus berberidifolia</i>	100 (100)	39.4 (47.3)	15 (35)	75 (65)
Shrub	<i>Heteromeles arbutifolia</i>	88 (100)	6.3 (4)	0.2 (3)	15 (6)
Shrub	<i>Adenostoma fasciculatum</i>	65 (50)	1.8 (1.1)	0.2 (0.2)	4 (2)
Shrub	<i>Cercocarpus betuloides</i>	53 (-)	6.4 (-)	0.2 (-)	23 (-)
Shrub	<i>Arctostaphylos glandulosa</i>	41 (25)	1.1 (3)	0.2 (3)	3 (3)
Shrub	<i>Garrya flavescens</i>	41 (50)	6.1 (0.2)	0.2 (0.2)	30 (0.2)
Shrub	<i>Rhamnus ilicifolia</i>	35 (-)	2.9 (-)	0.2 (-)	7 (-)
Shrub	<i>Rhus ovata</i>	35 (50)	2.2 (2.5)	0.2 (2)	6 (3)
Shrub	<i>Keckiella cordifolia</i>	29 (75)	1.4 (1.4)	0.2 (0.2)	3 (3)
Shrub	<i>Lonicera subspicata</i>	29 (25)	1.8 (2)	0.2 (2)	3 (2)
Shrub	<i>Mimulus aurantiacus</i>	29 (25)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus madritensis</i>	29 (-)	1.5 (-)	0.2 (-)	3 (-)

***Quercus berberidifolia-Adenostoma fasciculatum* Alliance**
***Quercus berberidifolia-Adenostoma fasciculatum* Association**

Samples Used To Describe Association (n= 12)

Rapid Assessment(s), WR and WSD stands: SRPL.020, CLNF.109, POTR.002/374, SAJAC.001/62/BPU#595578/143, BLACK.051, WILD.004/506/BPU 403-108, SRPL.011/790, CLNF.049, JRTR.003, SAJAC.011
Rapid Assessment(s), OC stands (n=2): 1205EK02, 1520EK01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	67.2 (52.0)	44-85 (44-60)	-
Herb cover (%)	17.5 (4.5)	0-52 (3-6)	0-1 (0-0.5)
Shrub cover (%)	56.9 (49.5)	27-80 (44-55)	0.5-2 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	1-5 (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: N (1,1), NE (4,0), NW (2,0), SE (1,0), SW (1,0), Variable (2,0), W (1,1)

Macrotopography: lower 1/3 of slope (4,1), lower to middle 1/3 of slope (1,1), middle 1/3 of slope (1,0), upper 1/3 of slope (6,0)

Microtopography: undulating (9,1), Concave (1,0), Convex (1,0), flat (1,1)

Parent material: basalt (1,0), granitic (6,0), igneous (1,0), mixed alluvium (1,1), sandstone (1,1), sedimentary (1,0)

Soil texture: unknown (1,0), clay (1,0), clay loam (2,1), loam (1,0), sand (1,1), sandy loam (5,0)

Category	Average	Range
Elevation (ft)	2335 (1760)	1240-3665 (1240-2280)
Slope (degrees)	22 (17.5)	3-45 (5-30)
Large rock cover (%)	6.8 (5.0)	0-30 (0-10)
Small rock cover (%)	16.9 (22.5)	0-48 (0-45)
Bare ground cover (%)	19.8 (19.5)	0-60 (7-32)
Litter cover (%)	35.2 (50.0)	0-70 (35-65)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Adenostoma fasciculatum</i>	100 (100)	20.2 (18)	2 (12)	39 (24)
Shrub	<i>Quercus berberidifolia</i>	100 (100)	24 (16)	8 (12)	55 (20)
Shrub	<i>Rhamnus ilicifolia</i>	67 (100)	3.9 (1)	0.2 (1)	15 (1)
Shrub	<i>Lonicera subspicata</i>	58 (100)	1.4 (0.2)	0.2 (0.2)	5 (0.2)
Shrub	<i>Heteromeles arbutifolia</i>	50 (100)	1.5 (1)	0.2 (1)	5 (1)
Shrub	<i>Eriogonum fasciculatum</i>	42 (50)	3.2 (10)	0.2 (10)	10 (10)
Shrub	<i>Malosma laurina</i>	33 (50)	3.3 (1)	1 (1)	9 (1)
Shrub	<i>Rhus ovata</i>	33 (-)	1.9 (-)	0.2 (-)	6 (-)
Shrub	<i>Salvia mellifera</i>	33 (-)	2.5 (-)	1 (-)	5 (-)
Shrub	<i>Acmispon glaber</i>	25 (100)	4 (5)	2 (5)	5 (5)
Shrub	<i>Artemisia californica</i>	25 (100)	9.7 (2.1)	0.2 (0.2)	25 (4)
Shrub	<i>Eriophyllum confertiflorum</i>	25 (100)	2.4 (3.5)	0.2 (1)	6 (6)
Shrub	<i>Hesperoyucca whipplei</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Keckiella cordifolia</i>	25 (50)	0.5 (0.2)	0.2 (0.2)	1 (0.2)
Shrub	<i>Lotus scoparius</i>	25 (-)	4 (-)	2 (-)	5 (-)
Shrub	<i>Toxicodendron diversilobum</i>	25 (50)	2.4 (0.2)	0.2 (0.2)	6 (0.2)
Shrub	<i>Yucca whipplei</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Bromus madritensis</i>	33 (-)	9.3 (-)	0.2 (-)	15 (-)
Herb	* <i>Bromus diandrus</i>	25 (-)	7.7 (-)	2 (-)	16 (-)
Herb	* <i>Hirschfeldia incana</i>	25 (-)	5.3 (-)	3 (-)	10 (-)
Herb	<i>Phacelia distans</i>	25 (-)	4.3 (-)	2 (-)	6 (-)
Herb	Unknown	25 (-)	5.4 (-)	0.2 (-)	10 (-)

***Rhus integrifolia* Alliance**
***Rhus integrifolia* Association**

Samples Used To Describe Association (n= 22)

Rapid Assessment(s), WR and WSD stands: 1602KH01, 0706TK05, 1520KH02, SDRP0284, SDRP0251, 1620JD01, SDRP0256, 0625JS01, 0623DH03, 0625DH04, 1625MB01, SDRP0096, 0706DH01, 1710JD10

Rapid Assessment(s), OC stands (n=8): 1003EK02, 1003EK03, 1056EK01, 1058EK01, 1062EK01, 1064EK02, 1099EK03, 1479EK02

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	61.0 (49.8)	30-95 (30-72)	-
Herb cover (%)	5.0 (4.6)	0.2-20 (1-20)	0-5 (0-1)
Shrub cover (%)	46.1 (46.1)	10-75 (10-75)	0-10 (0.5-5)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	0.9 (0.5)	0.2-2 (0.2-1)	2-10 (2-10)

Local Environmental Description (All stands, OC stands)

Aspect: E (2,2), NE (8,4), NW (7,0), S (1,1), SE (1,1), SW (2,0), Variable (1,0)

Macrotopography: bottom (1,0), middle 1/3 of slope (1,1), upper 1/3 of slope to ridgetop (1,1), upper 1/3 of slope (4,3), lower to middle 1/3 of slope (5,1), entire slope (1,0), lower 1/3 of slope (3,0), lower to upper 1/3 of slope (5,2)

Microtopography: undulating (11,2), concave (5,2), convex (2,1), flat (4,3)

Parent material: conglomerate (1,0), igneous (1,0), metamorphic (1,0), sandstone (10,6), sandy alluvium (1,0)

Soil texture: loam (1,0), silty loam (1,0), sand (1,0), clay loam (4,3), clay (1,0), sandy loam (10,2)

Category	Average	Range
Elevation (ft)	323 (525)	13-732 (13-732)
Slope (degrees)	21 (23.9)	3-65 (5-65)
Large rock cover (%)	0.7 (-)	0-10 (-)
Small rock cover (%)	6.6 (1.0)	0-42 (0-7)
Bare ground cover (%)	29.3 (47.0)	0-74 (22-74)
Litter cover (%)	43.3 (50.0)	0-95 (25-75)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Rhus integrifolia</i>	100 (100)	41.5 (29.6)	5 (5)	85 (55)
Shrub	<i>Artemisia californica</i>	82 (75)	4.5 (3.8)	0.2 (1)	20 (8)
Shrub	<i>Mimulus aurantiacus</i>	68 (75)	1.3 (1.2)	0.2 (0.2)	8 (2)
Shrub	<i>Heteromeles arbutifolia</i>	64 (63)	4.8 (5.8)	0.2 (2)	20 (15)
Shrub	<i>Malosma laurina</i>	55 (63)	4.4 (3.2)	0.2 (1)	13 (7)
Shrub	<i>Salvia mellifera</i>	50 (38)	2.3 (0.8)	0.2 (0.2)	9 (2)
Shrub	<i>Opuntia littoralis</i>	32 (38)	1.7 (1.1)	0.2 (0.2)	5 (3)
Shrub	<i>Encelia californica</i>	27 (-)	0.8 (-)	0.2 (-)	3.2 (-)
Shrub	<i>Eriogonum fasciculatum</i>	27 (38)	3.2 (4.7)	0.2 (1)	8 (8)
Herb	* <i>Bromus madritensis</i>	41 (38)	3.4 (3.5)	0.2 (0.2)	10 (10)
Herb	<i>Elymus condensatus</i>	36 (50)	0.8 (0.6)	0.2 (0.2)	2 (1)
Herb	<i>Stipa lepida</i>	27 (25)	1.6 (2.6)	0.2 (0.2)	5 (5)

Rhus integrifolia/Dudleya edulis-Carpobrotus spp. Provisional Alliance

Samples Used To Describe Association (n= 3)

Rapid Assessment(s), WR and WSD stands: None

Rapid Assessment(s), OC stands (n=3): 1001EK01, 1001EK02, 1001JD01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	17.3 (17.3)	10-26 (10-26)	-
Herb cover (%)	17.0 (17.0)	9-25 (9-25)	0-0.5 (0-0.5)
Shrub cover (%)	4.5 (4.5)	2-7 (2-7)	0.5-1 (0.5-1)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: SE (1,1), W (2,2)

Macrotopography: lower 1/3 of slope (2,2), lower to upper 1/3 of slope (1,1)

Microtopography: undulating (3,3)

Parent material: sandstone (2,2)

Soil texture: sand (1,1), sandy loam (1,1)

Category	Average	Range
Elevation (ft)	76 (76)	69-89 (69-89)
Slope (degrees)	47 (47.0)	26-75 (26-75)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	16.5 (16.5)	3-30 (3-30)
Bare ground cover (%)	76.0 (76.0)	66-86 (66-86)
Litter cover (%)	6.0 (6.0)	2-10 (2-10)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	* <i>Myoporum laetum</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Isocoma menziesii</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Acmispon glaber</i>	67 (67)	1.5 (1.5)	1 (1)	2 (2)
Shrub	<i>Artemisia californica</i>	67 (67)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Eriogonum fasciculatum</i>	67 (67)	0.6 (0.6)	0.2 (0.2)	1 (1)
Shrub	<i>Eriogonum parvifolium</i>	67 (67)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Rhus integrifolia</i>	67 (67)	3 (3)	2 (2)	4 (4)
Shrub	<i>Atriplex canescens</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	* <i>Atriplex semibaccata</i>	33 (33)	1 (1)	1 (1)	1 (1)
Shrub	<i>Baccharis pilularis</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Cylindropuntia prolifera</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Opuntia littoralis</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Peritoma arborea var. arborea</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus diandrus</i>	100 (100)	3.3 (3.3)	1 (1)	8 (8)
Herb	<i>Dudleya edulis</i>	100 (100)	4.4 (4.4)	0.2 (0.2)	12 (12)
Herb	<i>Atriplex californica</i>	67 (67)	0.6 (0.6)	0.2 (0.2)	1 (1)
Herb	* <i>Carpobrotus edulis</i>	67 (67)	2 (2)	1 (1)	3 (3)
Herb	* <i>Malephora crocea</i>	67 (67)	1 (1)	1 (1)	1 (1)



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Herb	<i>*Carpobrotus chilensis</i>	33 (33)	6 (6)	6 (6)	6 (6)
Herb	<i>Dichelostemma capitatum</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Eriogonum</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Festuca perennis</i>	33 (33)	3 (3)	3 (3)	3 (3)
Herb	<i>Heterotheca grandiflora</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Lupinus</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Medicago polymorpha</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Oenothera</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Oxalis pes-caprae</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Polypodium californicum</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Salsola tragus</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>*Sonchus asper</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

Salix lasiolepis Alliance
Salix lasiolepis (Alliance Only)

Samples Used To Describe Association (n= 18)

Rapid Assessment(s), WR and WSD stands: 0707RB02, SDRP0339, 0709RB01, 0421TK03, SDRP0066, 1766KH01, 0624RB01, 0625DH03, 0709JS02, 1702FS01, 0310TK21, SDRP0095, 0504TK21, 0311TK25, 1730KH02, 0625DH05
Rapid Assessment(s), OC stands (n=2): 1028EK01, 1413EK01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	55.6 (50.5)	24-90 (45-56)	-
Herb cover (%)	17.3 (5.5)	0.2-45 (2-9)	0-5 (0-0.5)
Shrub cover (%)	27.7 (27.7)	0.4-55 (0.4-55)	0-10 (0.5-5)
Tall shrub / low tree cover (%)	20.0 (20.0)	20-20 (20-20)	0.5-2 (1-2)
Overstory tree cover (%)	7.9 (-)	0.2-25 (-)	2-20 (2-5)

Local Environmental Description (All stands, OC stands)

Aspect: Flat (4,0), NW (4,0), S (1,1), SE (1,0), SW (8,1)

Macrotopography: bottom (18,2)

Microtopography: flat (9,0), undulating (1,0), concave (8,2)

Parent material: granitic (1,0), igneous (1,0), mixed alluvium (4,0), sandstone (2,1), sandy alluvium (4,0), silty alluvium (3,0)

Soil texture: clay loam (1,0), muck (2,0), sand (4,0), sandy loam (2,0), silt (1,0), silty loam (2,0), clay (1,0)

Category	Average	Range
Elevation (ft)	209 (154)	0-1014 (121-187)
Slope (degrees)	2 (1.5)	0-3 (1-2)
Large rock cover (%)	2.1 (-)	0-30 (-)
Small rock cover (%)	3.1 (2.5)	0-14 (0-5)
Bare ground cover (%)	21.4 (51.0)	0-78 (47-55)
Litter cover (%)	52.2 (45.0)	0-88 (40-50)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Salix lasiolepis</i>	100 (100)	34.4 (40.5)	9 (35)	88 (46)
Tree	<i>Salix gooddingii</i>	39 (50)	3.6 (0.2)	0.2 (0.2)	8 (0.2)
Tree	<i>Platanus racemosa</i>	33 (-)	1.4 (-)	0.2 (-)	5 (-)
Shrub	<i>Baccharis salicifolia</i>	61 (50)	8.4 (0.2)	0.2 (0.2)	30 (0.2)
Shrub	<i>Baccharis pilularis</i>	33 (100)	1 (0.6)	0.2 (0.2)	4 (1)
Herb	<i>Anemopsis californica</i>	44 (-)	2.5 (-)	0.2 (-)	10 (-)
Herb	<i>Artemisia douglasiana</i>	33 (50)	1.4 (0.2)	0.2 (0.2)	6 (0.2)
Herb	<i>Carex spissa</i>	28 (-)	8.5 (-)	0.2 (-)	37 (-)
Herb	<i>Juncus acutus subsp. leopoldii</i>	28 (-)	0.4 (-)	0.2 (-)	1 (-)

Salix lasiolepis Alliance

Salix lasiolepis/Baccharis salicifolia Association

Samples Used To Describe Association (n= 3)

Rapid Assessment(s), WR and WSD stands: None

Rapid Assessment(s), OC stands (n=3): 1045EK01, 1057EK02, 1298MA01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	52.3 (52.3)	45-62 (45-62)	-
Herb cover (%)	15.0 (15.0)	10-20 (10-20)	0-1 (0-1)
Shrub cover (%)	32.5 (32.5)	10-55 (10-55)	1-5 (1-5)
Tall shrub / low tree cover (%)	17.5 (17.5)	15-20 (15-20)	1-2 (1-2)
Overstory tree cover (%)	17.4 (17.4)	0.2-45 (0.2-45)	2-10 (2-10)

Local Environmental Description (All stands, OC stands)

Aspect: Flat (1,1), SE (1,1), SW (1,1)

Macrotopography: bottom (3,3)

Microtopography: concave (2,2), flat (1,1)

Parent material: mixed alluvium (2,2), sandy alluvium (1,1)

Soil texture: sand (3,3)

Category	Average	Range
Elevation (ft)	389 (389)	66-961 (66-961)
Slope (degrees)	1 (1.3)	0-2 (0-2)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	8.7 (8.7)	0-25 (0-25)
Bare ground cover (%)	29.7 (29.7)	7-52 (7-52)
Litter cover (%)	37.7 (37.7)	35-43 (35-43)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Salix lasiolepis</i>	100 (100)	34.7 (34.7)	22 (22)	52 (52)
Tree	<i>Platanus racemosa</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Tree	* <i>Populus nigra</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Tree	<i>Quercus agrifolia</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Tree	* <i>Washingtonia robusta</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Baccharis salicifolia</i>	100 (100)	13.3 (13.3)	10 (10)	15 (15)
Shrub	<i>Baccharis pilularis</i>	67 (67)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Artemisia californica</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Toxicodendron diversilobum</i>	33 (33)	2 (2)	2 (2)	2 (2)
Herb	<i>Artemisia douglasiana</i>	67 (67)	3 (3)	2 (2)	4 (4)
Herb	* <i>Arundo donax</i>	67 (67)	8.5 (8.5)	5 (5)	12 (12)
Herb	* <i>Melilotus indicus</i>	67 (67)	5.1 (5.1)	0.2 (0.2)	10 (10)
Herb	<i>Typha</i>	67 (67)	2.6 (2.6)	0.2 (0.2)	5 (5)
Herb	* <i>Brassica nigra</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus diandrus</i>	33 (33)	7 (7)	7 (7)	7 (7)
Herb	* <i>Centaurea melitensis</i>	33 (33)	1 (1)	1 (1)	1 (1)
Herb	* <i>Cortaderia jubata</i>	33 (33)	1 (1)	1 (1)	1 (1)
Herb	* <i>Cortaderia selloana</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Urtica dioica</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

Salvia apiana Alliance

Salvia apiana-Artemisia californica Association

Samples Used To Describe Association (n= 17)

Rapid Assessment(s), WR and WSD stands: SDG0030, SDG0009, 1633MB01, 1720FS01, SDG0042, 1686FS01, SDRP0097, SDRP0471, 0603RB01, 1073FS01, SDRP0140, SDG0033, 1102MB01, SDRP0136

Rapid Assessment(s), OC stands (n=3): 1161EK02, 1161MA02, 1172EK01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	49.5 (47.7)	22-75 (44-54)	-
Herb cover (%)	20.5 (2.1)	0.2-52 (0.2-4)	0-1 (0-0.5)
Shrub cover (%)	47.7 (47.7)	44-54 (44-54)	0-2 (0-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	2.6 (-)	0.2-5 (-)	2-10 (-)

Local Environmental Description (All stands, OC stands)

Aspect: N (1,1), SW (2,0), Variable (1,0), W (1,0), NE (5,0), NW (3,0), SE (4,2)

Macrotopography: lower to middle 1/3 of slope (3,0), ridge top (1,0), middle to upper 1/3 of slope (5,3), middle 1/3 of slope (1,0), lower 1/3 of slope (3,0), bottom (1,0), lower to upper 1/3 of slope (3,0)

Microtopography: convex (6,1), flat (5,0), undulating (4,1), concave (2,1)

Parent material: gabbro (2,0), granitic (10,3)

Soil texture: loam (2,0), sandy loam (5,0), silty loam (1,0), clay loam (4,3)

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Category	Average	Range
Elevation (ft)	1283 (3259)	374-3346 (3189-3346)
Slope (degrees)	20 (29.3)	0-42 (20-42)
Large rock cover (%)	4.5 (-)	0-40 (-)
Small rock cover (%)	8.5 (8.7)	0-39 (0-16)
Bare ground cover (%)	22.5 (26.0)	0-70 (21-30)
Litter cover (%)	22.2 (62.7)	0-70 (58-70)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Salvia apiana</i>	100 (100)	13.5 (29)	4 (25)	37 (37)
Shrub	<i>Artemisia californica</i>	94 (67)	11.5 (4.5)	0.2 (4)	35 (5)
Shrub	<i>Eriogonum fasciculatum</i>	71 (33)	2.9 (0.2)	0.2 (0.2)	15 (0.2)
Shrub	<i>Malosma laurina</i>	71 (33)	3.8 (1)	1 (1)	12 (1)
Shrub	<i>Mimulus aurantiacus</i>	41 (67)	4.5 (14)	0.2 (5)	23 (23)
Shrub	<i>Acmispon glaber</i>	29 (33)	3 (14)	0.2 (14)	14 (14)
Shrub	<i>Eriophyllum confertiflorum var. confertiflorum</i>	29 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Rhamnus crocea</i>	29 (-)	0.4 (-)	0.2 (-)	1 (-)
Herb	* <i>Hirschfeldia incana</i>	47 (33)	2.2 (1)	0.2 (1)	10 (1)
Herb	* <i>Bromus madritensis</i>	35 (-)	2.2 (-)	0.2 (-)	5 (-)
Herb	* <i>Centaurea melitensis</i>	29 (-)	1.3 (-)	0.2 (-)	3.2 (-)
Herb	* <i>Erodium</i>	29 (-)	27.8 (-)	2 (-)	45 (-)

Salvia leucophylla Alliance

Salvia leucophylla-Artemisia californica Association

Samples Used To Describe Association (n= 3)

Rapid Assessment(s), WR and WSD stands: None

Rapid Assessment(s), OC stands (n=3): 1300MA01, 1341EK01, 1343EK01

Local Vegetation Description	Average	Range	Height (m)
Total vegetation cover (%)	45.7 (45.7)	36-60 (36-60)	-
Herb cover (%)	15.7 (15.7)	1-26 (1-26)	0-1 (0-1)
Shrub cover (%)	30.0 (30.0)	9-41 (9-41)	0.5-2 (0.5-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: N (1,1), SE (2,2)

Macrotopography: middle 1/3 of slope (2,2), upper 1/3 of slope (1,1)

Microtopography: concave (1,1), flat (2,2)

Parent material: sandstone (2,2)

Soil texture: clay loam (3,3)

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Category	Average	Range
Elevation (ft)	1419 (1419)	1024-1703 (1024-1703)
Slope (degrees)	35 (34.7)	14-50 (14-50)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	0.7 (0.7)	0-2 (0-2)
Bare ground cover (%)	36.7 (36.7)	10-58 (10-58)
Litter cover (%)	60.0 (60.0)	40-85 (40-85)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Artemisia californica</i>	100 (100)	9 (9)	3 (3)	19 (19)
Shrub	<i>Malacothamnus fasciculatus</i>	100 (100)	0.5 (0.5)	0.2 (0.2)	1 (1)
Shrub	<i>Salvia leucophylla</i>	100 (100)	21 (21)	6 (6)	35 (35)
Shrub	<i>Malosma laurina</i>	67 (67)	1 (1)	1 (1)	1 (1)
Shrub	<i>Eriogonum fasciculatum</i>	33 (33)	3 (3)	3 (3)	3 (3)
Shrub	<i>Hesperoyucca whipplei</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Mirabilis laevis</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Nolina cismontana</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Salvia mellifera</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Hirschfeldia incana</i>	67 (67)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Stipa lepida</i>	67 (67)	8.6 (8.6)	0.2 (0.2)	17 (17)
Herb	* <i>Avena barbata</i>	33 (33)	25 (25)	25 (25)	25 (25)
Herb	* <i>Brachypodium distachyon</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Brassica nigra</i>	33 (33)	2 (2)	2 (2)	2 (2)
Herb	<i>Calochortus splendens</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Centaurea melitensis</i>	33 (33)	1 (1)	1 (1)	1 (1)
Herb	<i>Elymus condensatus</i>	33 (33)	2 (2)	2 (2)	2 (2)
Herb	<i>Galium angustifolium</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Phacelia cicutaria</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Pseudognaphalium californicum</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Solanum xanti</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Stipa pulchra</i>	33 (33)	1 (1)	1 (1)	1 (1)
Herb	<i>Trifolium ciliolatum</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Uropappus lindleyi</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

Salvia mellifera Alliance

Salvia mellifera-Eriogonum fasciculatum Association

Samples Used To Describe Association (n= 30)

Rapid Assessment(s), WR and WSD stands: 1730KH01, SRPL.008/625, WINC.013, LAEL.014, SAGE.055, 0625RB01, ANZA.066, 1312KH01, 0707TK05, ANZA.064, SITT.006/51, JRTR.001, 0625RB02, WINC.015/difficult AA, SDG0099, 1126FS01, 1115PG01, SDRP0334, 0706TK01, SDG0093

Rapid Assessment(s), OC stands (n=10): 1099EK01, 1099EK04, 1099EK05, 1099MA01, 1101EK01, 1101EK02, 1128EK01, 1406EK01, 3.8jd05, ek3.8.4

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	45.5 (48.2)	21-75 (34-65)	-
Herb cover (%)	7.4 (0.5)	0.2-60 (0.2-1)	0-1 (0-0.5)
Shrub cover (%)	43.3 (48.1)	20-65 (34-65)	0-2 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	0.5-5 (-)
Overstory tree cover (%)	0.6 (-)	0.2-1 (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: E (2,2), NE (2,0), NW (3,0), SE (8,3), SW (10,5), Variable (5,0)
Macrotopography: middle to upper 1/3 of slope (7,5), upper 1/3 of slope to ridgetop (1,0), ridge top (2,0), middle 1/3 of slope (6,2), lower to upper 1/3 of slope (2,1), lower 1/3 of slope (2,0), bottom (1,0), upper 1/3 of slope (8,2)
Microtopography: undulating (8,2), concave (8,4), convex (8,2), flat (6,2)
Parent material: calcareous sandstone (1,0), granitic (9,0), mixed alluvium (1,1), sandstone (11,7), sedimentary (2,1), volcanic flow (1,0)
Soil texture: unknown (1,1), clay loam (4,1), loam (4,2), sand (3,0), sandy loam (14,6), silty loam (1,0)

Category	Average	Range
Elevation (ft)	989 (618)	62-2721 (62-889)
Slope (degrees)	20 (25.5)	2-55 (2-55)
Large rock cover (%)	2.2 (2.2)	0-18 (0-18)
Small rock cover (%)	14.1 (6.8)	0-58 (0-35)
Bare ground cover (%)	40.3 (45.6)	0-73 (15-73)
Litter cover (%)	33.7 (43.5)	0-95 (25-65)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Salvia mellifera</i>	100 (100)	19.3 (22.4)	5 (13)	45 (35)
Shrub	<i>Eriogonum fasciculatum</i>	87 (100)	8.3 (8.8)	1 (2)	30 (30)
Shrub	<i>Artemisia californica</i>	80 (100)	5.6 (8.4)	0.2 (0.2)	20 (20)
Shrub	<i>Rhus integrifolia</i>	50 (100)	5.4 (4.5)	0.2 (0.2)	20 (20)
Shrub	<i>Malosma laurina</i>	47 (60)	3.5 (3.1)	0.2 (0.2)	10 (7)
Shrub	<i>Opuntia littoralis</i>	33 (40)	0.3 (0.2)	0.2 (0.2)	1 (0.2)
Shrub	<i>Acmispon glaber</i>	30 (50)	0.6 (0.7)	0.2 (0.2)	2 (2)
Shrub	<i>Lotus scoparius</i>	30 (-)	0.6 (-)	0.2 (-)	2 (-)
Shrub	<i>Mimulus aurantiacus</i>	27 (60)	2 (1.4)	0.2 (0.2)	5 (5)
Herb	* <i>Bromus madritensis</i>	50 (30)	3.9 (0.2)	0.2 (0.2)	22 (0.2)

Salvia mellifera Alliance

Salvia mellifera-Lotus scoparius Association

Samples Used To Describe Association (n= 11)

Rapid Assessment(s), WR and WSD stands: LABO.008, SATI.003, SAGE.027, SAGE.035, SCWP.001, SITT.018
 Rapid Assessment(s), OC stands (n=5): 1197EK04, 1380EK02, 1463EK05, 1499EK02, 1499KH02

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Local Vegetation Description	All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)		37.6 (43.6)	13-60 (37-48)	-
Herb cover (%)		9.7 (4.2)	0.2-45 (0.2-15)	0-1 (0-0.5)
Shrub cover (%)		29.8 (39.6)	12-46 (30-46)	0.5-2 (0.5-2)
Tall shrub / low tree cover (%)		- (-)	- (-)	0.5-2 (-)
Overstory tree cover (%)		- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: E (1,1), W (1,1), SW (3,2), SE (2,1), NE (3,0), NW (1,0)

Macrotopography: middle 1/3 of slope (3,3), ridge top (2,0), upper 1/3 of slope (5,1), upper 1/3 of slope to ridgetop (1,1)

Microtopography: Undulating (4,1), convex (5,2), flat (2,2)

Parent material: granitic (2,0), mixed igneous (1,0), sandstone (3,3), sedimentary (2,0)

Soil texture: clay loam (2,1), sandy loam (9,4)

Category	Average	Range
Elevation (ft)	1752 (1348)	951-2338 (951-1923)
Slope (degrees)	21 (19.4)	3-30 (3-30)
Large rock cover (%)	2.5 (-)	0-25 (-)
Small rock cover (%)	12.1 (0.8)	0-78 (0-3)
Bare ground cover (%)	45.5 (61.6)	3-87 (42-87)
Litter cover (%)	36.1 (35.4)	0-90 (9-55)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Acmispon glaber</i>	100 (100)	6.5 (10.4)	0.2 (3)	24 (24)
Shrub	<i>Lotus scoparius</i>	100 (-)	6.5 (-)	0.2 (-)	24 (-)
Shrub	<i>Salvia mellifera</i>	100 (100)	14.1 (15.6)	4 (8)	25 (21)
Shrub	<i>Artemisia californica</i>	82 (100)	3 (2.4)	1 (1)	5 (4)
Shrub	<i>Hesperoyucca whipplei</i>	45 (40)	0.9 (1.5)	0.2 (1)	2 (2)
Shrub	<i>Malacothamnus fasciculatus</i>	45 (80)	6.4 (7.8)	0.2 (0.2)	15 (15)
Shrub	<i>Malosma laurina</i>	45 (80)	2.1 (2.6)	0.2 (0.2)	4 (4)
Shrub	<i>Yucca whipplei</i>	45 (-)	0.9 (-)	0.2 (-)	2 (-)
Shrub	<i>Adenostoma fasciculatum</i>	36 (40)	3 (2)	1 (1)	5 (3)
Shrub	<i>Eriogonum fasciculatum</i>	36 (40)	1.9 (1.5)	0.2 (1)	5 (2)
Shrub	<i>Rhus ovata</i>	36 (20)	0.4 (0.2)	0.2 (0.2)	1 (0.2)
Shrub	<i>Nolina cismontana</i>	27 (60)	0.5 (0.5)	0.2 (0.2)	1 (1)
Shrub	<i>Opuntia littoralis</i>	27 (60)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Centaurea melitensis</i>	64 (100)	0.8 (0.9)	0.2 (0.2)	3 (3)
Herb	* <i>Hirschfeldia incana</i>	45 (40)	1.3 (0.2)	0.2 (0.2)	4 (0.2)
Herb	* <i>Brassica nigra</i>	27 (60)	2.4 (2.4)	0.2 (0.2)	6 (6)
Herb	* <i>Bromus madritensis</i>	27 (20)	4 (2)	1 (2)	9 (2)

Salvia mellifera Alliance
Salvia mellifera-Malosma laurina Association

Samples Used To Describe Association (n= 29)

Rapid Assessment(s), WR and WSD stands: 0311TK24, 1732JD01, SDRP0329, SDRP0359, SDRP0270, 1339FS01, 1278LS01, 1485MM01, SDRP0235, 1493FS01, SDG0117, 0507RB01, 0311AK22, 0507MG01, 0507DH01, SDRP0061, 0623RB03, 0708JS01, 0624RB03, 1700FS01, 1439FS01, 0708AK01, 0624DH02, SDG0081, SDRP0059
Rapid Assessment(s), OC stands (n=4): 1032EK01, 1088EK04, 1343EK04, 1413EK04

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	48.0 (39.3)	14-93 (37-42)	-
Herb cover (%)	7.2 (2.8)	0.2-35 (0.2-8)	0-2 (0-0.5)
Shrub cover (%)	37.0 (37.0)	33-42 (33-42)	0-5 (0.5-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	2.0 (-)	2-2 (-)	5-10 (-)

Local Environmental Description (All stands, OC stands)

Aspect: Variable (4,0), N (1,1), NE (2,0), NW (5,0), S (1,1), SE (8,2), SW (8,0)
Macrotopography: middle 1/3 of slope (4,2), upper 1/3 of slope (4,2), upper 1/3 of slope to ridgetop (3,0), middle 1/3 of slope to ridgetop (1,0), lower to middle 1/3 of slope (2,0), lower 1/3 of slope to ridgetop (1,0), lower 1/3 of slope (2,0), bottom to mid 1/3 of slope (1,0), middle to upper 1/3 of slope (7,0), lower to upper 1/3 of slope (4,0)
Microtopography: concave (2,0), convex (11,1), flat (6,3), undulating (10,0)
Parent material: conglomerate (3,0), general volcanic extrusives (1,0), granitic (6,0), metamorphic (2,0), mixed sedimentary (2,0), sandstone (5,4), sedimentary (3,0), volcanic flow (1,0)
Soil texture: clay (2,0), clay loam (4,1), loam (3,0), sand (2,0), sandy loam (16,1)

Category	Average	Range
Elevation (ft)	684 (932)	112-1588 (466-1588)
Slope (degrees)	20 (22.0)	3-38 (12-30)
Large rock cover (%)	2.1 (-)	0-15 (-)
Small rock cover (%)	18.9 (12.8)	0-58 (0-37)
Bare ground cover (%)	30.8 (48.8)	0-68 (31-63)
Litter cover (%)	28.8 (36.3)	0-87 (30-45)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Salvia mellifera</i>	100 (100)	26.1 (26.8)	5 (17)	60 (37)
Shrub	<i>Malosma laurina</i>	97 (100)	6.2 (2.3)	0.2 (0.2)	30 (4)
Shrub	<i>Artemisia californica</i>	52 (25)	3.1 (4)	0.2 (4)	8 (4)
Shrub	<i>Eriogonum fasciculatum</i>	48 (25)	1.5 (1)	0.2 (1)	4 (1)
Shrub	<i>Mimulus aurantiacus</i>	45 (25)	10.2 (0.2)	0.2 (0.2)	40 (0.2)
Shrub	<i>Rhus integrifolia</i>	41 (50)	4.5 (5)	0.2 (3)	20 (7)
Shrub	<i>Acmispon glaber</i>	28 (25)	4.1 (1)	0.2 (1)	11 (1)
Shrub	<i>Heteromeles arbutifolia</i>	28 (50)	1.4 (0.2)	0.2 (0.2)	5 (0.2)
Shrub	<i>Malacothamnus fasciculatus</i>	28 (50)	0.5 (1.1)	0.2 (0.2)	2 (2)
Herb	<i>*Bromus madritensis</i>	52 (25)	5.8 (3)	0.2 (3)	35 (3)
Herb	<i>*Centaurea melitensis</i>	38 (50)	1.4 (0.2)	0.2 (0.2)	11 (0.2)
Herb	<i>Stipa lepida</i>	34 (75)	1.7 (2.3)	0.2 (2)	5 (3)
Herb	<i>Pseudognaphalium californicum</i>	31 (-)	2.6 (-)	0.2 (-)	15 (-)

Sambucus nigra Alliance
Sambucus nigra Association

Samples Used To Describe Association (n= 2)
 Rapid Assessment(s), WR and WSD stands: None
 Rapid Assessment(s), OC stands (n=2): 1463KH01, 1463KH02

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	42.5 (42.5)	35-50 (35-50)	-
Herb cover (%)	24.0 (24.0)	10-38 (10-38)	0.5-1 (0.5-1)
Shrub cover (%)	18.5 (18.5)	12-25 (12-25)	2-5 (2-5)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: NW (1,1), W (1,1)
Macrotopography: middle to upper 1/3 of slope (1,1), middle 1/3 of slope to ridgetop (1,1)
Microtopography: convex (2,2)
Parent material:
Soil texture: clay loam (1,1), loam (1,1)

Category	Average	Range
Elevation (ft)	1060 (1060)	1033-1086 (1033-1086)
Slope (degrees)	15 (15.0)	15-15 (15-15)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	1.5 (1.5)	1-2 (1-2)
Bare ground cover (%)	61.5 (61.5)	42-81 (42-81)
Litter cover (%)	35.0 (35.0)	15-55 (15-55)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Artemisia californica</i>	100 (100)	0.6 (0.6)	0.2 (0.2)	1 (1)
Shrub	<i>Baccharis pilularis</i>	100 (100)	5 (5)	3 (3)	7 (7)
Shrub	<i>Heteromeles arbutifolia</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Sambucus nigra subsp. Caerulea</i>	100 (100)	12 (12)	6 (6)	18 (18)
Shrub	<i>Isocoma menziesii var. vernonioides</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Lonicera subspicata</i>	50 (50)	1 (1)	1 (1)	1 (1)
Shrub	<i>Malosma laurina</i>	50 (50)	1 (1)	1 (1)	1 (1)
Shrub	<i>Marah</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Mimulus aurantiacus</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Opuntia littoralis</i>	50 (50)	1 (1)	1 (1)	1 (1)
Shrub	<i>Salvia apiana</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Salvia mellifera</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Toxicodendron diversilobum</i>	50 (50)	1 (1)	1 (1)	1 (1)
Herb	* <i>Brassica nigra</i>	100 (100)	11.5 (11.5)	6 (6)	17 (17)
Herb	* <i>Carduus pycnocephalus</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Elymus condensatus</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Galium aparine</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Marrubium vulgare</i>	100 (100)	0.6 (0.6)	0.2 (0.2)	1 (1)

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Herb	<i>Pseudognaphalium californicum</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Avena barbata</i>	50 (50)	3 (3)	3 (3)	3 (3)
Herb	<i>Bowlesia incana</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus diandrus</i>	50 (50)	5 (5)	5 (5)	5 (5)
Herb	* <i>Bromus hordeaceus</i>	50 (50)	5 (5)	5 (5)	5 (5)
Herb	* <i>Bromus madritensis</i>	50 (50)	7 (7)	7 (7)	7 (7)
Herb	* <i>Centaurea melitensis</i>	50 (50)	2 (2)	2 (2)	2 (2)
Herb	<i>Chenopodium californicum</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Cynara cardunculus</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Eucrypta chrysanthemifolia</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Stachys ajugoides</i>	50 (50)	2 (2)	2 (2)	2 (2)
Herb	<i>Stipa pulchra</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Urtica dioica</i>	50 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

***Toxicodendron diversilobum* Alliance**

***Toxicodendron diversilobum-Artemisia californica/Leymus condensatus* Association**

Samples Used To Describe Association (n= 5)

Rapid Assessment(s), WR and WSD stands: 1737JD07, 1739JD01, 1737JD05

Rapid Assessment(s), OC stands (n=2): 1218KH01, 1494EK01

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	71.0 (60.0)	60-85 (60-60)	-
Herb cover (%)	26.8 (46.0)	6-46 (46-46)	0.5-2 (0.5-1)
Shrub cover (%)	37.5 (37.5)	15-60 (15-60)	0-5 (2-5)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	1.0 (1.0)	1-1 (1-1)	5-10 (5-10)

Local Environmental Description (All stands, OC stands)

Aspect: N (2,2), NE (1,0), NW (2,0)

Macrotopography: lower to middle 1/3 of slope (1,0), lower to upper 1/3 of slope (2,0), middle to upper 1/3 of slope (2,2)

Microtopography: convex (1,0), flat (1,0), undulating (3,2)

Parent material: sandstone (1,1)

Soil texture: clay loam (2,1), sandy loam (2,0)

Category	Average	Range
Elevation (ft)	480 (880)	197-1516 (243-1516)
Slope (degrees)	22 (25.5)	12-30 (25-26)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	7.2 (0.5)	0-25 (0-1)
Bare ground cover (%)	32.0 (47.0)	13-57 (37-57)
Litter cover (%)	59.0 (50.0)	40-85 (40-60)



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Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Quercus agrifolia</i>	40 (50)	1.1 (1)	0.2 (1)	2 (1)
Shrub	<i>Toxicodendron diversilobum</i>	100 (100)	38.2 (24.5)	7 (7)	55 (42)
Shrub	<i>Rhus integrifolia</i>	80 (100)	8.8 (7)	2 (2)	12 (12)
Shrub	<i>Sambucus nigra subsp. caerulea</i>	80 (100)	0.4 (0.2)	0.2 (0.2)	1 (0.2)
Shrub	<i>Artemisia californica</i>	60 (100)	3.7 (1.5)	1 (1)	8 (2)
Shrub	<i>Baccharis pilularis</i>	40 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Heteromeles arbutifolia</i>	40 (100)	5.5 (5.5)	5 (5)	6 (6)
Herb	<i>Elymus condensatus</i>	100 (100)	3.1 (7.1)	0.2 (0.2)	14 (14)
Herb	<i>Artemisia palmeri</i>	60 (-)	19 (-)	5 (-)	30 (-)
Herb	* <i>Brassica nigra</i>	60 (50)	1.4 (3)	0.2 (3)	3 (3)

VEGETATION DOMINATED BY HERBS

Avena (barbata, fatua) Alliance

Avena barbata-Avena fatua Semi-Natural Stands

Samples Used To Describe Association (n= 15)

Rapid Assessment(s), WR and WSD stands: 0519DH01, 1737JD08, 1587LS01, SDRP0237, 1560LS01, 1361LS01, 1697LS01, 1339EB02, 0519RB04, 1361KH03, 0519TK02, 1545LS01, 1596KH01

Rapid Assessment(s), OC stands (n=2): 1041EK02, 1187EK04

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	48.5 (45.5)	29-65 (35-56)	-
Herb cover (%)	46.2 (45.5)	25-65 (35-56)	0-2 (0-0.5)
Shrub cover (%)	0.2 (0.2)	0.2-0.2 (0.2-0.2)	0-2 (0.5-1)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: Variable (2,1), SW (5,0), NE (2,0), NW (2,0), SE (3,0), W (1,1)

Macrotopography: bottom (1,0), bottom to lower 1/3 of slope (1,0), bottom to mid 1/3 of slope (3,0), bottom to upper 1/3 of slope (1,0), entire slope (1,0), lower 1/3 of slope (1,0), lower to upper 1/3 of slope (2,0), middle 1/3 of slope (1,1), middle 1/3 of slope to ridgetop (1,1), upper 1/3 of slope to ridgetop (2,0)

Microtopography: undulating (4,0), flat (3,1), concave (2,0), convex (6,1)

Parent material: granitic (2,0), metamorphic (2,0), sandstone (2,2), sandy alluvium (1,0)

Soil texture: clay loam (3,1), loam (2,0), sandy loam (9,0), clay (1,1)

Category	Average	Range
Elevation (ft)	672 (822)	115-1289 (607-1037)
Slope (degrees)	17 (16.0)	0-42 (16-16)
Large rock cover (%)	0.7 (-)	0-5 (-)
Small rock cover (%)	7.3 (-)	0-35 (-)
Bare ground cover (%)	35.7 (26.0)	5-72 (23-29)
Litter cover (%)	41.0 (71.5)	0-92 (68-75)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Artemisia californica</i>	60 (50)	0.8 (0.2)	0.2 (0.2)	3 (0.2)
Shrub	<i>Eriogonum fasciculatum var. fasciculatum</i>	33 (-)	1.1 (-)	0.2 (-)	3 (-)
Shrub	<i>Malosma laurina</i>	33 (-)	2.2 (-)	0.2 (-)	6 (-)
Herb	* <i>Avena barbata</i>	87 (100)	22.4 (21)	6 (16)	45 (26)
Herb	* <i>Bromus diandrus</i>	60 (100)	5.3 (12)	0.2 (1)	23 (23)
Herb	* <i>Centaurea melitensis</i>	47 (-)	6.2 (-)	0.2 (-)	20 (-)
Herb	* <i>Brassica nigra</i>	40 (100)	3.6 (1.1)	0.2 (0.2)	17 (2)
Herb	* <i>Avena fatua</i>	33 (-)	24.6 (-)	3 (-)	40 (-)
Herb	* <i>Bromus rubens</i>	33 (-)	10.4 (-)	8 (-)	15 (-)
Herb	* <i>Hirschfeldia incana</i>	33 (-)	1.3 (-)	0.2 (-)	5 (-)
Herb	* <i>Salsola tragus</i>	27 (-)	0.9 (-)	0.2 (-)	2 (-)
Herb	<i>Stipa pulchra</i>	27 (50)	1.1 (1)	0.2 (1)	2 (1)

Brassica nigra Alliance
Brassica nigra Semi-Natural Stands

Samples Used To Describe Association (n= 4)

Rapid Assessment(s), WR and WSD stands: 1703JD01, SDG0118

Rapid Assessment(s), OC stands (n=2): 1010EK02, 1499KH01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	43.3 (46.0)	15-66 (45-47)	-
Herb cover (%)	42.0 (44.5)	13-66 (44-45)	0.5-2 (0.5-1)
Shrub cover (%)	5.0 (5.0)	5-5 (5-5)	0-1 (0.5-1)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: NE (1,1), NW (1,0), SW (1,0), W (1,1)

Macrotopography: middle to upper 1/3 of slope (1,1), lower to middle 1/3 of slope (1,0), middle 1/3 of slope (1,1)

Microtopography: convex (1,0), undulating (2,2)

Parent material: basalt (1,0), sandstone (1,1)

Soil texture: clay loam (3,2), sandy loam (1,0)

Category	Average	Range
Elevation (ft)	600 (886)	128-1119 (653-1119)
Slope (degrees)	19 (14.0)	3-29 (3-25)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	1.3 (-)	0-5 (-)
Bare ground cover (%)	32.8 (23.0)	23-52 (23-23)
Litter cover (%)	52.6 (75.0)	0.200000002980232-75 (75-75)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Artemisia californica</i>	75 (50)	0.8 (2)	0.2 (2)	2 (2)
Shrub	<i>Opuntia littoralis</i>	50 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Adolphia californica</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Astragalus trichopodus var. lonchus</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Baccharis pilularis</i>	25 (50)	3 (3)	3 (3)	3 (3)
Shrub	<i>Encelia californica</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Malacothamnus fasciculatus</i>	25 (-)	1 (-)	1 (-)	1 (-)
Shrub	<i>Malosma laurina</i>	25 (-)	2 (-)	2 (-)	2 (-)
Shrub	<i>Mirabilis laevis</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Salvia mellifera</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Brassica nigra</i>	100 (100)	28.8 (26.5)	7 (25)	55 (28)
Herb	* <i>Bromus diandrus</i>	75 (100)	7.1 (10.5)	0.2 (10)	11 (11)
Herb	* <i>Carduus pycnocephalus</i>	75 (100)	3.5 (0.2)	0.2 (0.2)	10 (0.2)
Herb	* <i>Avena barbata</i>	50 (100)	1.1 (1.1)	0.2 (0.2)	2 (2)
Herb	* <i>Bromus madritensis</i>	50 (50)	2.6 (5)	0.2 (5)	5 (5)
Herb	* <i>Cynara cardunculus</i>	50 (100)	3 (3)	1 (1)	5 (5)
Herb	<i>Elymus condensatus</i>	50 (50)	0.6 (0.2)	0.2 (0.2)	1 (0.2)

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Herb	<i>Antirrhinum nuttallianum</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Bromus hordeaceus</i>	25 (50)	7 (7)	7 (7)	7 (7)
Herb	<i>Calystegia macrostegia</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Centaurea melitensis</i>	25 (-)	3 (-)	3 (-)	3 (-)
Herb	* <i>Cirsium vulgare</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Conium maculatum</i>	25 (50)	1 (1)	1 (1)	1 (1)
Herb	<i>Cryptantha</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	* <i>Erodium cicutarium</i>	25 (50)	1 (1)	1 (1)	1 (1)
Herb	* <i>Erodium moschatum</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Eucrypta chrysanthemifolia</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Festuca myuros</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Foeniculum vulgare</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Galium aparine</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Heliotropium curassavicum</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Malva</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Melilotus indicus</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Phacelia distans</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	<i>Pseudognaphalium californicum</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Raphanus sativus</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Salsola tragus</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Silybum marianum</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Sonchus asper</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

***Bromus diandrus* Alliance**

***Bromus diandrus* Semi-Natural Stands**

Samples Used To Describe Association (n= 20)

Rapid Assessment(s), WR and WSD stands: 0421DH02, SDRP0068, 1022DH06, 0423DH02, LAVI.026/BPU 22363-45

Rapid Assessment(s), OC stands (n=15): 1003EK06, 1047EK05, 1066EK04, 1066EK05, 1076MA01, 1079EK01, 1093EK02, 1110EK03, 1113EK01, 1128EK05, 1137EK02, 1197EK05, 1229EK03, 1243EK01, 1289EK02

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	58.4 (57.7)	35-90 (35-90)	-
Herb cover (%)	56.3 (55.2)	35-90 (35-90)	0-1 (0-1)
Shrub cover (%)	1.2 (1.3)	0-7 (0.2-7)	0-5 (0.5-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: S (4,4), SW (2,1), Variable (1,1), SE (5,4), NE (2,0), NW (1,1), Flat (2,1), E (2,2), W (1,1)
Macrotopography: middle to upper 1/3 of slope (2,2), upper 1/3 of slope to ridgetop (3,3), upper 1/3 of slope (2,2), lower to middle 1/3 of slope (1,1), bottom (2,0), middle 1/3 of slope (2,2), lower 1/3 of slope (8,5)
Microtopography: concave (1,0), convex (1,1), flat (11,9), undulating (7,5)
Parent material: granitic (4,0), sandstone (13,13), sedimentary (1,1), silty alluvium (1,0)
Soil texture: sandy loam (6,3), silty loam (1,0), loam (2,2), clay loam (6,5), clay (3,3)

Category	Average	Range
Elevation (ft)	710 (662)	0-1427 (79-1427)
Slope (degrees)	7 (8.1)	0-22 (0-22)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	0.7 (-)	0-10 (-)
Bare ground cover (%)	21.0 (21.3)	0-52 (2-52)
Litter cover (%)	70.8 (76.3)	0-95 (45-95)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Baccharis pilularis</i>	25 (33)	1.8 (1.8)	0.2 (0.2)	6 (6)
Shrub	<i>Isocoma menziesii</i>	25 (20)	0.7 (0.5)	0.2 (0.2)	1 (1)
Shrub	<i>Opuntia littoralis</i>	25 (33)	0.4 (0.4)	0.2 (0.2)	1 (1)
Herb	* <i>Bromus diandrus</i>	100 (100)	45 (45)	17 (20)	83 (83)
Herb	* <i>Brassica nigra</i>	60 (80)	6.5 (6.5)	1 (1)	18 (18)
Herb	* <i>Avena barbata</i>	40 (40)	4.7 (6.2)	0.2 (1)	10 (10)
Herb	<i>Croton setiger</i>	30 (27)	2.9 (0.4)	0.2 (0.2)	10 (1)
Herb	<i>Eremocarpus setigerus</i>	30 (-)	2.9 (-)	0.2 (-)	10 (-)
Herb	* <i>Hirschfeldia incana</i>	30 (13)	1.7 (2)	0.2 (1)	5 (3)
Herb	* <i>Bromus hordeaceus</i>	25 (13)	2.6 (3.6)	0.2 (0.2)	7 (7)
Herb	* <i>Lactuca serriola</i>	25 (20)	0.6 (0.2)	0.2 (0.2)	2 (0.2)

Cynara cardunculus Provisional Alliance
Cynara cardunculus Provisional Semi-Natural Stands

Samples Used To Describe Association (n= 6)

Rapid Assessment(s), WR and WSD stands: None
Rapid Assessment(s), OC stands (n=6): 1015EK01, 1015EK03, 1030EK01, 1088EK03, 1113EK02, 1513EK03

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	44.8 (44.8)	24-60 (24-60)	-
Herb cover (%)	44.8 (44.8)	24-60 (24-60)	0-1 (0-1)
Shrub cover (%)	0.2 (0.2)	0.2-0.2 (0.2-0.2)	0.5-2 (0.5-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstorey tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: NE (1,1), NW (2,2), SW (1,1), Variable (2,2)

Macrotopography: middle to upper 1/3 of slope (2,2), upper 1/3 of slope (1,1), lower 1/3 of slope to ridge top (1,1), middle 1/3 of slope (2,2)

Microtopography: concave (1,1), flat (1,1), undulating (4,4)

Parent material: sandstone (5,5)

Soil texture: clay (1,1), clay loam (4,4)

Category	Average	Range
Elevation (ft)	675 (675)	253-1014 (253-1014)
Slope (degrees)	15 (15.0)	4-24 (4-24)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	- (-)	- (-)
Bare ground cover (%)	24.0 (24.0)	9-58 (9-58)
Litter cover (%)	74.2 (74.2)	40-90 (40-90)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Rhus integrifolia</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Cynara cardunculus</i>	100 (100)	31.7 (31.7)	18 (18)	43 (43)
Herb	* <i>Avena barbata</i>	83 (83)	2.5 (2.5)	0.2 (0.2)	6 (6)
Herb	* <i>Bromus diandrus</i>	83 (83)	4.8 (4.8)	0.2 (0.2)	10 (10)
Herb	* <i>Bromus hordeaceus</i>	83 (83)	6 (6)	0.2 (0.2)	14 (14)
Herb	* <i>Brassica nigra</i>	67 (67)	1.8 (1.8)	1 (1)	2 (2)
Herb	* <i>Bromus madritensis</i>	33 (33)	1.6 (1.6)	0.2 (0.2)	3 (3)
Herb	* <i>Hirschfeldia incana</i>	33 (33)	2 (2)	2 (2)	2 (2)
Herb	* <i>Sonchus asper</i>	33 (33)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)

***Festuca perennis* Alliance**

***Festuca perennis* Semi-Natural Stands**

Samples Used To Describe Association (n= 4)

Rapid Assessment(s), WR and WSD stands: 1563MM01, 0505TK22, 1019RB01

Rapid Assessment(s), OC stands (n=1): 1092EK03

Local Vegetation Description	Average	Range	Height (m)
Total vegetation cover (%)	59.0 (36.0)	36-88 (36-36)	-
Herb cover (%)	58.5 (34.0)	34-88 (34-34)	0-1 (0-0.5)
Shrub cover (%)	0.2 (0.2)	0.2-0.2 (0.2-0.2)	0-5 (0.5-1)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: Flat (1,0), NE (1,1), NW (1,0), SE (1,0)

Macrotopography: bottom to lower 1/3 of slope (1,0), upper 1/3 of slope (1,1), bottom (2,0)

Microtopography: concave (2,1), flat (2,0)

Parent material: clayey alluvium (1,0), sandstone (1,1), sandy alluvium (1,0)

Soil texture: clay (1,1), clay loam (1,0), loam (1,0), silt (1,0)

Category	Average	Range
Elevation (ft)	527 (696)	0-879 (696-696)
Slope (degrees)	7 (26.0)	0-26 (26-26)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	2.8 (-)	0-10 (-)
Bare ground cover (%)	21.5 (10.0)	3-63 (10-10)
Litter cover (%)	73.5 (88.0)	25-95 (88-88)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Quercus agrifolia</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Artemisia californica</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Baccharis salicifolia</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Baccharis sarothroides</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Grindelia camporum</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Isocoma menziesii</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Mimulus aurantiacus</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Lolium multiflorum</i>	75 (-)	51 (-)	28 (-)	85 (-)
Herb	* <i>Rumex crispus</i>	75 (-)	1.4 (-)	0.2 (-)	3 (-)
Herb	* <i>Bromus hordeaceus</i>	50 (100)	0.6 (1)	0.2 (1)	1 (1)
Herb	<i>Ambrosia psilostachya</i>	25 (-)	8 (-)	8 (-)	8 (-)
Herb	<i>Atriplex prostrata</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Avena barbata</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Bromus diandrus</i>	25 (100)	7 (7)	7 (7)	7 (7)
Herb	* <i>Carduus pycnocephalus</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Cuscuta</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Cynara cardunculus</i>	25 (100)	1 (1)	1 (1)	1 (1)
Herb	<i>Daucus pusillus</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Dichelostemma capitatum</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Distichlis spicata</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	* <i>Erodium botrys</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Festuca perennis</i>	25 (100)	22 (22)	22 (22)	22 (22)
Herb	* <i>Foeniculum vulgare</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Frankenia salina</i>	25 (-)	3 (-)	3 (-)	3 (-)
Herb	<i>Heliotropium curassavicum</i>	25 (-)	2 (-)	2 (-)	2 (-)
Herb	* <i>Helminthotheca echioides</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Hirschfeldia incana</i>	25 (-)	8 (-)	8 (-)	8 (-)
Herb	* <i>Hordeum murinum subsp. glaucum</i>	25 (-)	15 (-)	15 (-)	15 (-)

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Herb	<i>Juncus acutus subsp. leopoldii</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Juncus dubius</i>	25 (-)	12 (-)	12 (-)	12 (-)
Herb	* <i>Lepidium draba</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Lupinus</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Malvella leprosa</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	* <i>Melilotus indicus</i>	25 (-)	5 (-)	5 (-)	5 (-)
Herb	<i>Ranunculus californicus</i>	25 (100)	1 (1)	1 (1)	1 (1)
Herb	* <i>Raphanus sativus</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Salicornia pacifica</i>	25 (-)	3 (-)	3 (-)	3 (-)
Herb	<i>Sanicula bipinnatifida</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Sisyrinchium bellum</i>	25 (100)	1 (1)	1 (1)	1 (1)
Herb	<i>Stipa pulchra</i>	25 (100)	1 (1)	1 (1)	1 (1)
Herb	<i>Xanthium strumarium</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)

Frankenia salina Alliance

Frankenia salina-Distichlis spicata Association

Samples Used To Describe Association (n= 11)

Rapid Assessment(s), WR and WSD stands: 1020AK06, 0707AK01, 1020AK05, 1020RB03, 1020TK01, 1020TK03, 1023TK06, 1021RB03, 1022DH02, 1022AK04

Rapid Assessment(s), OC stands (n=1): 1471EK03

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	62.9 (68.0)	21-86 (68-68)	-
Herb cover (%)	62.8 (68.0)	21-86 (68-68)	0-1 (0-0.5)
Shrub cover (%)	- (-)	- (-)	0-5 (-)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	1.0 (-)	1-1 (-)	10-15 (-)

Local Environmental Description (All stands, OC stands)

Aspect: Flat (7,0), NW (2,0), S (1,1), Variable (1,0)

Macrotopography: lower 1/3 of slope (2,0), bottom (9,1)

Microtopography: flat (7,1), undulating (4,0)

Parent material: clayey alluvium (4,0), sandy alluvium (2,0), silty alluvium (4,0)

Soil texture: sand (1,1), sandy loam (1,0), clay loam (3,0), clay (4,0), silt (2,0)

Category	Average	Range
Elevation (ft)	1 (7)	0-7 (7-7)
Slope (degrees)	1 (0.0)	0-8 (0-0)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	0.0 (-)	0-0.4 (-)
Bare ground cover (%)	13.6 (17.0)	0-78 (17-17)
Litter cover (%)	83.6 (80.0)	20-97 (80-80)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Cuscuta salina</i>	27 (100)	7.1 (0.2)	0.2 (0.2)	20 (0.2)
Herb	<i>Frankenia salina</i>	100 (100)	41.9 (38)	17 (38)	82 (38)
Herb	<i>Distichlis spicata</i>	82 (100)	5.2 (0.2)	0.2 (0.2)	18 (0.2)
Herb	<i>Salicornia pacifica</i>	82 (100)	5.5 (22)	0.2 (22)	22 (22)
Herb	<i>Arthrocnemum subterminale</i>	27 (-)	1.7 (-)	1 (-)	2 (-)
Herb	<i>Atriplex prostrata</i>	27 (-)	8.7 (-)	1 (-)	22 (-)
Herb	<i>Cressa truxillensis</i>	27 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Heliotropium curassavicum</i>	27 (-)	0.5 (-)	0.2 (-)	1 (-)
Herb	* <i>Sonchus oleraceus</i>	27 (-)	0.2 (-)	0.2 (-)	0.2 (-)

**Mediterranean California Naturalized Annual and Perennial Grassland Alliance
 Mediterranean California Naturalized Annual and Perennial Grassland Association**

Samples Used To Describe Association (n= 17)

Rapid Assessment(s), WR and WSD stands: SDRP0146, 1695LS01, SDG0035, 0519TK05, 1684FS01, SDG0047, 0309TK01, SDG0015, SDG0023, SDG0024, SDG0119, SDG0050, 0324DHF5, 1606JD02

Rapid Assessment(s), OC stands (n=3): 1099EK02, 1197EK01, 1471EK01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	42.6 (45.3)	15-85 (27-55)	-
Herb cover (%)	39.2 (45.0)	10-84 (26-55)	0-1 (0-0.5)
Shrub cover (%)	0.7 (0.7)	0.2-1 (0.2-1)	0-2 (0.5-1)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: NE (2,0), NW (4,1), S (1,1), SE (2,0), SW (8,1)

Macrotopography: middle to upper 1/3 of slope (1,0), upper 1/3 of slope to ridgetop (1,1), upper 1/3 of slope (1,1), ridge top (1,0), lower to upper 1/3 of slope (1,0), lower to middle 1/3 of slope (2,0), lower 1/3 of slope (4,0), bottom (3,0), middle 1/3 of slope (3,1)

Microtopography: concave (1,0), convex (4,1), flat (3,1), undulating (9,1)

Parent material: granitic (2,0), gravelly alluvium (1,0), igneous (1,0), metamorphic (1,0), sandstone (2,2), shale (1,0)

Soil texture: sandy loam (6,2), silty loam (1,0), clay loam (3,1)

Category	Average	Range
Elevation (ft)	647 (489)	0-1378 (75-735)
Slope (degrees)	8 (1.7)	1-26 (1-2)
Large rock cover (%)	3.5 (-)	0-37 (-)
Small rock cover (%)	7.6 (1.0)	0-54 (0-2)
Bare ground cover (%)	21.1 (44.5)	0-64 (36-53)
Litter cover (%)	21.9 (52.5)	0-72 (45-60)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Artemisia californica</i>	53 (67)	0.5 (0.2)	0.2 (0.2)	2 (0.2)
Shrub	<i>Malosma laurina</i>	41 (-)	1.2 (-)	0.2 (-)	4 (-)
Shrub	<i>Eriogonum fasciculatum</i>	35 (67)	0.6 (0.2)	0.2 (0.2)	2 (0.2)
Shrub	<i>Salvia apiana</i>	29 (-)	1.1 (-)	0.2 (-)	2 (-)
Herb	* <i>Bromus madritensis</i>	59 (100)	4.1 (6.7)	0.2 (0.2)	15 (15)
Herb	* <i>Bromus hordeaceus</i>	41 (67)	6.3 (15)	1 (10)	20 (20)
Herb	* <i>Erodium botrys</i>	41 (67)	32.1 (27.5)	10 (25)	60 (30)
Herb	* <i>Avena barbata</i>	35 (67)	1.9 (0.2)	0.2 (0.2)	5 (0.2)
Herb	* <i>Bromus diandrus</i>	35 (67)	3.9 (7.5)	0.2 (5)	10 (10)
Herb	<i>Stipa pulchra</i>	35 (33)	0.3 (0.2)	0.2 (0.2)	1 (0.2)
Herb	* <i>Centaurea melitensis</i>	29 (33)	6.4 (2)	0.2 (2)	16 (2)
Herb	<i>Croton setiger</i>	29 (67)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Erodium</i>	29 (-)	25 (-)	7 (-)	70 (-)
Herb	* <i>Hirschfeldia incana</i>	29 (33)	1.5 (0.2)	0.2 (0.2)	5 (0.2)

Muhlenbergia rigens Alliance

Muhlenbergia rigens Association

Samples Used To Describe Association (n= 4)

Rapid Assessment(s), WR and WSD stands: 1036MB01, 0311RB22

Rapid Assessment(s), OC stands (n=2): 1140MA01, 1172MA03

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	73.3 (71.0)	70-79 (70-72)	-
Herb cover (%)	73.3 (71.0)	70-79 (70-72)	0-1 (0.5-1)
Shrub cover (%)	0.2 (0.2)	0.2-0.2 (0.2-0.2)	0-2 (1-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: NW (1,0), SE (1,0), W (2,2)

Macrotopography: bottom (3,2), middle to upper 1/3 of slope (1,0)

Microtopography: flat (2,1), undulating (1,1), convex (1,0)

Parent material: granitic (3,1)

Soil texture: sand (1,1), clay loam (3,1)

Category	Average	Range
Elevation (ft)	2277 (2889)	1260-3330 (2448-3330)
Slope (degrees)	3 (3.0)	1-3 (3-3)
Large rock cover (%)	0.8 (0.5)	0-1 (0-1)
Small rock cover (%)	9.3 (15.0)	0-30 (0-30)
Bare ground cover (%)	9.8 (12.5)	3-15 (10-15)
Litter cover (%)	77.0 (67.5)	55-93 (55-80)

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Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Baccharis salicifolia</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Cercocarpus minutiflorus</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Quercus acutidens</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Muhlenbergia rigens</i>	100 (100)	39.3 (51)	15 (35)	67 (67)
Herb	* <i>Sonchus asper</i>	75 (100)	1.5 (2.1)	0.2 (0.2)	4 (4)
Herb	<i>Thalictrum fendleri</i>	75 (50)	3.5 (0.2)	0.2 (0.2)	10 (0.2)
Herb	* <i>Anagallis arvensis</i>	50 (100)	4.5 (4.5)	2 (2)	7 (7)
Herb	* <i>Bromus diandrus</i>	50 (50)	2 (2)	2 (2)	2 (2)
Herb	* <i>Carduus pycnocephalus</i>	50 (-)	22.6 (-)	0.2 (-)	45 (-)
Herb	<i>Drymocalis lactea</i>	50 (100)	1.1 (1.1)	0.2 (0.2)	2 (2)
Herb	* <i>Festuca myuros</i>	50 (50)	13.5 (7)	7 (7)	20 (7)
Herb	<i>Sidalcea malviflora</i>	50 (50)	2 (2)	2 (2)	2 (2)
Herb	* <i>Agrostis</i>	25 (-)	25 (-)	25 (-)	25 (-)
Herb	<i>Barbarea orthoceras</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus hordeaceus</i>	25 (50)	10 (10)	10 (10)	10 (10)
Herb	* <i>Bromus madritensis</i>	25 (-)	2 (-)	2 (-)	2 (-)
Herb	* <i>Bromus rubens</i>	25 (-)	5 (-)	5 (-)	5 (-)
Herb	* <i>Bromus tectorum</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Centaurea melitensis</i>	25 (50)	4 (4)	4 (4)	4 (4)
Herb	* <i>Cerastium glomeratum</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Cirsium occidentale var. occidentale</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Cirsium vulgare</i>	25 (50)	2 (2)	2 (2)	2 (2)
Herb	<i>Claytonia perfoliata</i>	25 (-)	6 (-)	6 (-)	6 (-)
Herb	<i>Deinandra fasciculata</i>	25 (-)	2 (-)	2 (-)	2 (-)
Herb	<i>Dichelostemma capitatum subsp. capitatum</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Erodium botrys</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Euphorbia spathulata</i>	25 (50)	1 (1)	1 (1)	1 (1)
Herb	<i>Galium angustifolium</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Galium aparine</i>	25 (-)	2 (-)	2 (-)	2 (-)
Herb	* <i>Galium parisiense</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	<i>Galium porrigens var. porrigens</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Geranium dissectum</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Hirschfeldia incana</i>	25 (50)	10 (10)	10 (10)	10 (10)
Herb	* <i>Hypochaeris glabra</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Juncus macrophyllus</i>	25 (50)	12 (12)	12 (12)	12 (12)
Herb	* <i>Lathyrus</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Lotus</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Nassella</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Phalaris aquatica</i>	25 (50)	2 (2)	2 (2)	2 (2)
Herb	<i>Pseudognaphalium californicum</i>	25 (50)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Sidalcea malviflora subsp. sparsifolia</i>	25 (-)	5 (-)	5 (-)	5 (-)
Herb	<i>Sisyrinchium bellum</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	<i>Stachys rigida var. rigida</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)

***Phalaris aquatica* Alliance**
***Phalaris aquatica* Semi-Natural Stands**

Samples Used To Describe Association (n= 1)

Rapid Assessment(s), WR and WSD stands: None
 Rapid Assessment(s), OC stands (n=1): 1172MA02

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	70.0 (70.0)	70-70 (70-70)	-
Herb cover (%)	70.0 (70.0)	70-70 (70-70)	0.5-1 (0.5-1)
Shrub cover (%)	- (-)	- (-)	- (-)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: SW (1,1)
 Macrotopography: bottom (1,1)
 Microtopography: concave (1,1)
 Parent material:
 Soil texture:

Category	Average	Range
Elevation (ft)	3310 (3310)	3310-3310 (3310-3310)
Slope (degrees)	5 (5.0)	5-5 (5-5)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	- (-)	- (-)
Bare ground cover (%)	5.0 (5.0)	5-5 (5-5)
Litter cover (%)	90.0 (90.0)	90-90 (90-90)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Herb	* <i>Anagallis arvensis</i>	100 (100)	2 (2)	2 (2)	2 (2)
Herb	<i>Barbarea orthoceras</i>	100 (100)	4 (4)	4 (4)	4 (4)
Herb	* <i>Bromus diandrus</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus hordeaceus</i>	100 (100)	10 (10)	10 (10)	10 (10)
Herb	* <i>Cirsium vulgare</i>	100 (100)	2 (2)	2 (2)	2 (2)
Herb	<i>Drymocallis lactea</i>	100 (100)	4 (4)	4 (4)	4 (4)
Herb	* <i>Festuca myuros</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Hypochaeris glabra</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Muhlenbergia rigens</i>	100 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Phalaris aquatica</i>	100 (100)	51 (51)	51 (51)	51 (51)
Herb	* <i>Phalaris minor</i>	100 (100)	2 (2)	2 (2)	2 (2)
Herb	<i>Sidalcea malviflora</i>	100 (100)	1 (1)	1 (1)	1 (1)

***Schoenoplectus acutus* Alliance**
***Schoenoplectus acutus* Association**

Samples Used To Describe Association (n= 2)

Rapid Assessment(s), WR and WSD stands: SDRP0269
 Rapid Assessment(s), OC stands (n=1): 1128MA02

Local Vegetation Description	All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)		85.0 (90.0)	80-90 (90-90)	-
Herb cover (%)		80.0 (85.0)	75-85 (85-85)	1-5 (2-5)
Shrub cover (%)		2.0 (2.0)	2-2 (2-2)	0-5 (2-5)
Tall shrub / low tree cover (%)		- (-)	- (-)	- (-)
Overstory tree cover (%)		1.5 (2.0)	1-2 (2-2)	5-15 (10-15)

Local Environmental Description (All stands, OC stands)

Aspect: Flat (1,1), NE (1,0)
 Macrotopography: bottom (1,1), lower 1/3 of slope (1,0)
 Microtopography: flat (1,1), convex (1,0)
 Parent material: granitic (1,0), sedimentary (1,1)
 Soil texture: muck (1,1), sandy loam (1,0)

Category	Average	Range
Elevation (ft)	358 (381)	335-381 (381-381)
Slope (degrees)	8 (0.0)	0-15 (0-0)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	- (-)	- (-)
Bare ground cover (%)	10.0 (-)	10-10 (-)
Litter cover (%)	- (-)	- (-)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Salix gooddingii</i>	50 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Tree	<i>Salix laevigata</i>	50 (100)	2 (2)	2 (2)	2 (2)
Shrub	<i>Baccharis salicifolia</i>	100 (100)	5 (2)	2 (2)	8 (2)
Shrub	<i>Baccharis pilularis</i>	50 (-)	9 (-)	9 (-)	9 (-)
Shrub	<i>Isocoma menziesii</i>	50 (-)	5 (-)	5 (-)	5 (-)
Shrub	<i>Opuntia littoralis</i>	50 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	* <i>Tamarix</i>	50 (-)	2 (-)	2 (-)	2 (-)
Herb	<i>Schoenoplectus acutus</i> var. <i>occidentalis</i>	100 (100)	67.5 (85)	50 (85)	85 (85)
Herb	<i>Ambrosia psilostachya</i>	50 (-)	1 (-)	1 (-)	1 (-)
Herb	* <i>Avena</i>	50 (-)	1 (-)	1 (-)	1 (-)
Herb	* <i>Brassica nigra</i>	50 (-)	1 (-)	1 (-)	1 (-)
Herb	* <i>Bromus diandrus</i>	50 (-)	5 (-)	5 (-)	5 (-)
Herb	* <i>Bromus hordeaceus</i>	50 (-)	3 (-)	3 (-)	3 (-)
Herb	* <i>Centaurea melitensis</i>	50 (-)	1 (-)	1 (-)	1 (-)
Herb	<i>Distichlis spicata</i>	50 (-)	5 (-)	5 (-)	5 (-)
Herb	<i>Urtica dioica</i>	50 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)



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***Spartina foliosa* Alliance**
***Spartina foliosa* Association**

Samples Used To Describe Association (n= 8)

Rapid Assessment(s), WR and WSD stands: 1023AK01, 1021AK04, 1023RB02, 1021TK02, 1023AK06, 1022TK01, 1021TK07

Rapid Assessment(s), OC stands (n=1): 1472EK02

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	32.6 (60.0)	11-60 (60-60)	-
Herb cover (%)	32.6 (60.0)	11-60 (60-60)	0-1 (0-0.5)
Shrub cover (%)	- (-)	- (-)	0-0 (-)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: Flat (6,0), SE (2,1)

Macrotopography: bottom (8,1)

Microtopography: flat (8,1)

Parent material: mixed alluvium (1,0), silty alluvium (5,0)

Soil texture: muck (1,0), sandy loam (1,0), silt (2,0), silty loam (1,0), clay (2,0)

Category	Average	Range
Elevation (ft)	4 (33)	0-33 (33-33)
Slope (degrees)	0 (0.0)	0-0 (0-0)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	- (-)	- (-)
Bare ground cover (%)	10.0 (42.0)	0-42 (42-42)
Litter cover (%)	6.6 (30.0)	0-30 (30-30)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Herb	<i>Salicornia pacifica</i>	100 (100)	3.6 (12)	0.2 (12)	12 (12)
Herb	<i>Spartina foliosa</i>	100 (100)	22.3 (18)	10 (18)	55 (18)
Herb	<i>Batis maritima</i>	50 (100)	11.6 (30)	0.2 (30)	30 (30)
Algae	<i>Algae</i>	25 (-)	18.5 (-)	2 (-)	35 (-)

***Stipa lepida* Provisional Alliance**
***Stipa lepida* Provisional Association**

Samples Used To Describe Association (n= 4)

Rapid Assessment(s), WR and WSD stands: SDG0090, 0504AK22, 0310RB25

Rapid Assessment(s), OC stands (n=1): 1137MA02

Local Vegetation Description	Average	Range	Height (m)
All stands (OC stands)			
Total vegetation cover (%)	33.5 (65.0)	22-65 (65-65)	-
Herb cover (%)	32.8 (65.0)	21-65 (65-65)	0-1 (0.5-1)
Shrub cover (%)	2.0 (2.0)	2-2 (2-2)	0-2 (0.5-1)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstory tree cover (%)	- (-)	- (-)	- (-)

Local Environmental Description (All stands, OC stands)

Aspect: NE (2,1), SW (2,0)

Macrotopography: lower 1/3 of slope (3,1), lower to middle 1/3 of slope (1,0)

Microtopography: convex (1,0), flat (1,0), undulating (2,1)

Parent material: conglomerate (1,0), sandstone (1,0), sedimentary (2,1)

Soil texture: sandy loam (1,0), clay (1,0), clay loam (1,0), loam (1,1)

Category	Average	Range
Elevation (ft)	321 (463)	0-676 (463-463)
Slope (degrees)	13 (15.0)	4-16 (15-15)
Large rock cover (%)	- (-)	- (-)
Small rock cover (%)	0.8 (-)	0-3 (-)
Bare ground cover (%)	55.0 (4.0)	4-89 (4-4)
Litter cover (%)	41.3 (93.0)	4-93 (93-93)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Standing Snag</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Acemispom glaber</i>	50 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Artemisia californica</i>	50 (100)	1.5 (2)	1 (2)	2 (2)
Shrub	<i>Isocoma menziesii</i>	50 (-)	0.6 (-)	0.2 (-)	1 (-)
Shrub	<i>Baccharis pilularis</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Baccharis sarothroides</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Encelia californica</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Eriogonum fasciculatum</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Shrub	<i>Grindelia</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Malosma laurina</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Shrub	<i>Peritoma arborea var. arborea</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	<i>Stipa lepida</i>	100 (100)	9.3 (12)	6 (12)	12 (12)
Herb	* <i>Avena fatua</i>	75 (100)	1.7 (4)	0.2 (4)	4 (4)
Herb	* <i>Bromus madritensis</i>	75 (-)	4.7 (-)	1 (-)	12 (-)
Herb	* <i>Brachypodium distachyon</i>	50 (100)	25 (49)	1 (49)	49 (49)
Herb	* <i>Brassica nigra</i>	50 (100)	2.6 (5)	0.2 (5)	5 (5)

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Herb	<i>Deinandra fasciculata</i>	50 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Festuca myuros</i>	50 (-)	4.1 (-)	0.2 (-)	8 (-)
Herb	* <i>Hypochaeris glabra</i>	50 (-)	0.6 (-)	0.2 (-)	1 (-)
Herb	<i>Acmispon micranthus</i>	25 (-)	3 (-)	3 (-)	3 (-)
Herb	* <i>Anagallis arvensis</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Astragalus gambelianus</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Bloomeria crocea</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	* <i>Bromus diandrus</i>	25 (100)	7 (7)	7 (7)	7 (7)
Herb	* <i>Bromus hordeaceus</i>	25 (-)	2 (-)	2 (-)	2 (-)
Herb	<i>Calochortus superbus</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Calystegia</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Cardionema ramosissimum</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Carduus pycnocephalus</i>	25 (100)	1 (1)	1 (1)	1 (1)
Herb	* <i>Centaurea melitensis</i>	25 (-)	2 (-)	2 (-)	2 (-)
Herb	<i>Centaurium</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Corethrogyne filaginifolia</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Crassula connata</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Cressa truxillensis</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Croton californicus</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Croton setiger</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	* <i>Cynara cardunculus</i>	25 (100)	0.2 (0.2)	0.2 (0.2)	0.2 (0.2)
Herb	<i>Daucus pusillus</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Distichlis spicata</i>	25 (-)	3 (-)	3 (-)	3 (-)
Herb	<i>Dudleya pulverulenta</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Erodium botrys</i>	25 (-)	4 (-)	4 (-)	4 (-)
Herb	* <i>Erodium cicutarium</i>	25 (-)	9 (-)	9 (-)	9 (-)
Herb	* <i>Foeniculum vulgare</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	<i>Galium angustifolium</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	* <i>Helminthotheca echioides</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Lepidium nitidum</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Linanthus dianthiflorus</i>	25 (-)	1 (-)	1 (-)	1 (-)
Herb	* <i>Logfia gallica</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Plantago ovata</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Porophyllum gracile</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Pterostegia drymarioides</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)
Herb	<i>Sisyrinchium bellum</i>	25 (-)	3 (-)	3 (-)	3 (-)
Herb	<i>Stipa pulchra</i>	25 (-)	0.2 (-)	0.2 (-)	0.2 (-)

Stipa pulchra Alliance
Stipa pulchra Association

Samples Used To Describe Association (n= 41)

Rapid Assessment(s), WR and WSD stands: 1548JD02, 0505RB21, 0505RB24, 0506DH22, SRPL.018, 1690FS01, 0507AK21, 0505RB22, 1761EB01, SDG0089, 1616KG02, 1617MM01, 1158FS01, 0309DH23, WILD.007/BPU 392-361, MURR.011, 1707EB01, SDG0120, 1706EB01, SRPL.004/437, SDRP0094, SDRP0357, SRPL.016, 0624RB02

Rapid Assessment(s), OC stands (n=17): 1003EK01, 1003EK05, 1014EK02, 1015EK04, 1025EK01, 1028EK02, 1047EK02, 1056EK04, 1092EK06, 1110EK01, 1289MA03, 1350EK03, 1364EK01, 1450EK02, 1463EK03, 1465EK01, 3.8jd03

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	51.5 (46.2)	28-90 (29-85)	-
Herb cover (%)	49.3 (42.7)	27-90 (29-77)	0-1 (0-1)
Shrub cover (%)	1.8 (2.1)	0-6 (0.2-6)	0-5 (0.5-2)
Tall shrub / low tree cover (%)	- (-)	- (-)	0.5-5 (-)
Overstory tree cover (%)	0.2 (0.2)	0.2-0.2 (0.2-0.2)	2-10 (2-10)

Local Environmental Description (All stands, OC stands)

Aspect: NE (11,4), W (1,1), Variable (4,0), SW (3,1), SE (5,3), NW (9,4), N (1,1), Flat (5,1), E (1,1), S (1,1)

Macrotopography: middle 1/3 of slope (14,7), ridge top (2,1), upper 1/3 of slope (4,4), middle to upper 1/3 of slope (2,1), lower to upper 1/3 of slope (1,0), lower to middle 1/3 of slope (1,0), lower 1/3 of slope (8,3), bottom (5,0), bottom to lower 1/3 of slope (3,0)

Microtopography: convex (9,4), flat (17,11), concave (2,0), undulating (13,2)

Parent material: gabbro (1,0), granitic (3,0), igneous (2,0), mixed alluvium (1,0), sandstone (13,12), sandy alluvium (1,0), sedimentary (3,0), volcanic flow (3,0)

Soil texture: silty loam (1,0), sandy loam (8,1), loam (4,0), clay (12,7), clay loam (16,9)

Category	Average	Range
Elevation (ft)	823 (794)	62-1998 (151-1476)
Slope (degrees)	9 (10.8)	0-30 (0-30)
Large rock cover (%)	1.3 (-)	0-15 (-)
Small rock cover (%)	6.3 (0.4)	0-34 (0-5)
Bare ground cover (%)	28.5 (28.8)	0-88 (4-53)
Litter cover (%)	54.6 (68.4)	0-94 (45-94)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Shrub	<i>Isocoma menziesii</i>	46 (59)	1 (1)	0.2 (0.2)	3 (3)
Shrub	<i>Artemisia californica</i>	41 (59)	0.6 (0.5)	0.2 (0.2)	2 (2)
Shrub	<i>Eriogonum fasciculatum</i>	37 (18)	0.7 (2.1)	0.2 (0.2)	5 (5)
Shrub	<i>Opuntia littoralis</i>	27 (59)	0.5 (0.5)	0.2 (0.2)	1 (1)
Herb	<i>Nassella pulchra</i>	100 (-)	14.4 (-)	2 (-)	50 (-)
Herb	<i>Stipa pulchra</i>	100 (100)	14.4 (15.6)	2 (2)	50 (40)
Herb	* <i>Avena barbata</i>	61 (76)	7.8 (8.2)	0.2 (0.2)	24 (24)
Herb	* <i>Bromus diandrus</i>	51 (76)	11.3 (12.2)	0.2 (0.2)	60 (60)
Herb	* <i>Bromus hordeaceus</i>	49 (59)	5.1 (6.7)	0.2 (0.2)	25 (25)
Herb	* <i>Bromus madritensis</i>	37 (35)	4.1 (1.1)	0.2 (0.2)	20 (3)
Herb	* <i>Erodium botrys</i>	37 (41)	10.8 (0.9)	0.2 (0.2)	70 (2)
Herb	<i>Sisyrinchium bellum</i>	32 (35)	0.9 (1)	0.2 (0.2)	5 (5)

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Herb	<i>Calochortus splendens</i>	29 (18)	0.6 (0.2)	0.2 (0.2)	2 (0.2)
Herb	* <i>Centaurea melitensis</i>	29 (18)	0.9 (2.1)	0.2 (0.2)	5 (5)
Herb	<i>Dichelostemma capitatum</i>	29 (47)	0.4 (0.2)	0.2 (0.2)	2 (0.2)
Herb	* <i>Hirschfeldia incana</i>	29 (12)	1.3 (0.2)	0.2 (0.2)	10 (0.2)
Herb	* <i>Cynara cardunculus</i>	27 (35)	3.2 (2.3)	0.2 (0.2)	18 (10)

Typha (angustifolia, domingensis, latifolia) Alliance

Typha domingensis Association

Samples Used To Describe Association (n= 10)

Rapid Assessment(s), WR and WSD stands: 1571EB01, 0623DH01, 0708MG02, 0708MG04, 1020RB01, 1020TK05, 1021RB05, 0309AK22, 1021AK01

Rapid Assessment(s), OC stands (n=1): 1517EK01

Local Vegetation Description All stands (OC stands)	Average	Range	Height (m)
Total vegetation cover (%)	58.6 (61.0)	23-84 (61-61)	-
Herb cover (%)	57.1 (61.0)	21-83 (61-61)	1-10 (2-5)
Shrub cover (%)	- (-)	- (-)	0-5 (-)
Tall shrub / low tree cover (%)	- (-)	- (-)	- (-)
Overstorey tree cover (%)	1.8 (-)	0.2-5 (-)	2-10 (-)

Local Environmental Description (All stands, OC stands)

Aspect: SW (2,1), Flat (7,0), NE (1,0)

Macrotopography: bottom to lower 1/3 of slope (1,0), bottom (9,1)

Microtopography: undulating (1,0), concave (1,0), flat (8,1)

Parent material: clayey alluvium (2,0), mixed alluvium (1,0), sandy alluvium (1,0), silty alluvium (2,0), volcanic flow (1,0)

Soil texture: silt (1,0), muck (8,1), sandy loam (1,0)

Category	Average	Range
Elevation (ft)	47 (16)	0-240 (16-16)
Slope (degrees)	0 (0.0)	0-1 (0-0)
Large rock cover (%)	1.6 (-)	0-10 (-)
Small rock cover (%)	2.0 (-)	0-20 (-)
Bare ground cover (%)	26.4 (31.0)	0-87 (31-31)
Litter cover (%)	23.8 (35.0)	0-94 (35-35)

Stand Table

Stratum	Species Name	Con	Ave	Min	Max
Tree	<i>Salix gooddingii</i>	30 (-)	0.7 (-)	0.2 (-)	1 (-)
Herb	<i>Typha domingensis</i>	100 (100)	45 (60)	5 (60)	78 (60)
Herb	* <i>Apium graveolens</i>	50 (-)	2.6 (-)	0.2 (-)	6 (-)
Herb	* <i>Helminthotheca echioides</i>	40 (-)	1.6 (-)	0.2 (-)	5 (-)
Herb	* <i>Polypogon monspeliensis</i>	40 (-)	0.4 (-)	0.2 (-)	1 (-)
Herb	* <i>Rumex crispus</i>	40 (-)	0.9 (-)	0.2 (-)	2 (-)
Herb	<i>Xanthium strumarium</i>	40 (-)	0.4 (-)	0.2 (-)	1 (-)
Herb	<i>Anemopsis californica</i>	30 (-)	0.5 (-)	0.2 (-)	1 (-)
Herb	<i>Distichlis spicata</i>	30 (-)	3.5 (-)	0.2 (-)	10 (-)
Herb	<i>Juncus acutus subsp. leopoldii</i>	30 (-)	1.1 (-)	0.2 (-)	3 (-)
Herb	<i>Pluchea odorata</i>	30 (-)	6.1 (-)	0.2 (-)	18 (-)