

A photograph of a person standing in a field of low-lying shrubs and grass, looking at a device. In the background, there are more shrubs and a line of trees under a blue sky with large white clouds. A large, semi-transparent circular overlay is on the right side of the image, containing the title and presenter information.

Modoc Plateau Vegetation Mapping Project Rollout October 2nd, 2020

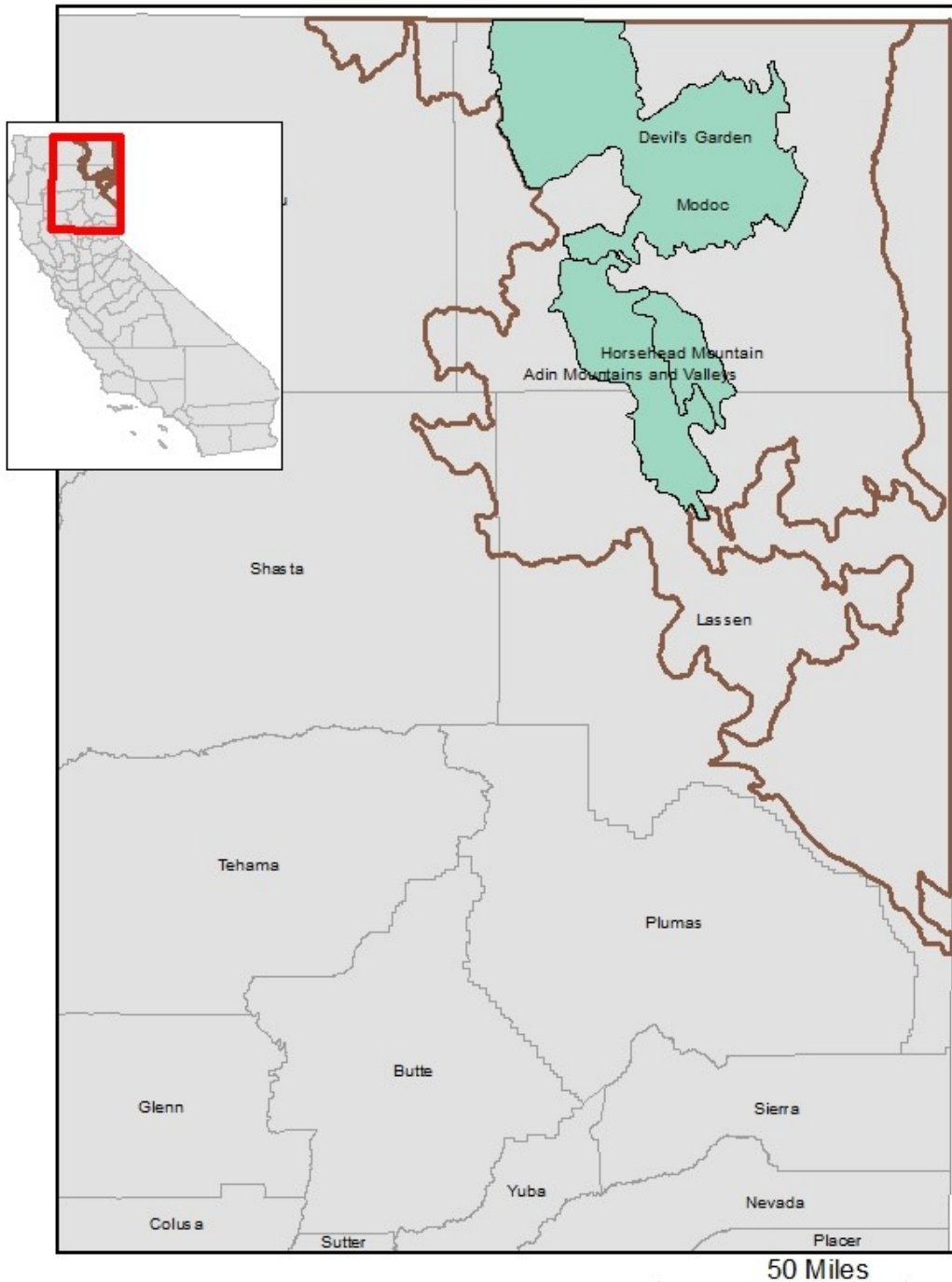
Rachelle Boul, Vegetation Ecologist
Vegetation Classification and
Mapping Program, CDFW

Talking points

- Project scope and contributors
- What is vegetation classification and mapping?
- Field sampling
- Classification
 - Modoc Classification
 - Hierarchy description
- Mapping
 - Map attributes
 - Accuracy Assessment
- Report
- Project status



Photo by Brian Krebs



Project Scope

Phase 1: ~1.1 million acres

Phase 2: ~1 million acres

Applegate and Eagle Lake: ~500,000 acres

Total: 2.2 million acres



Photo by Brian Kre

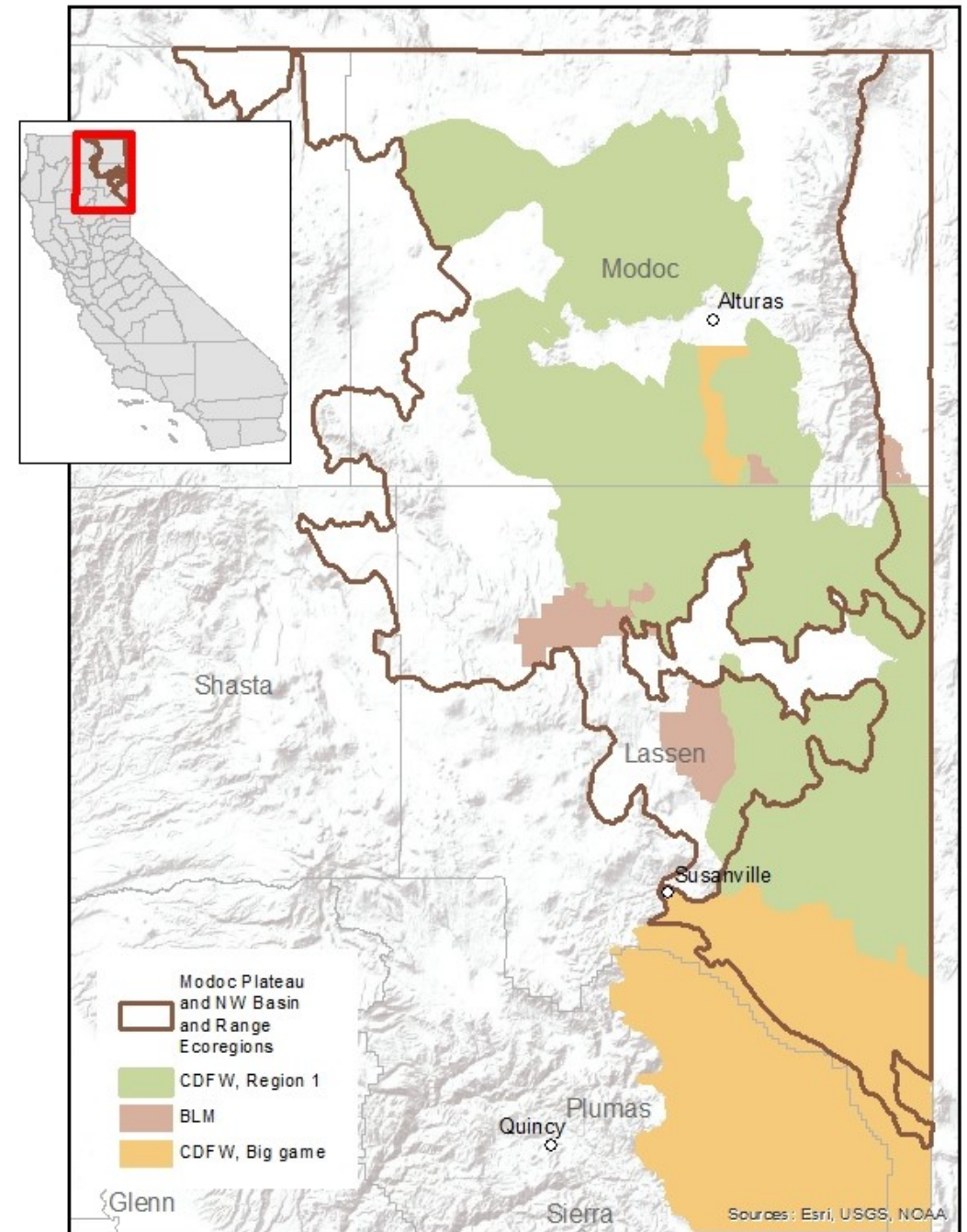
Collaboration



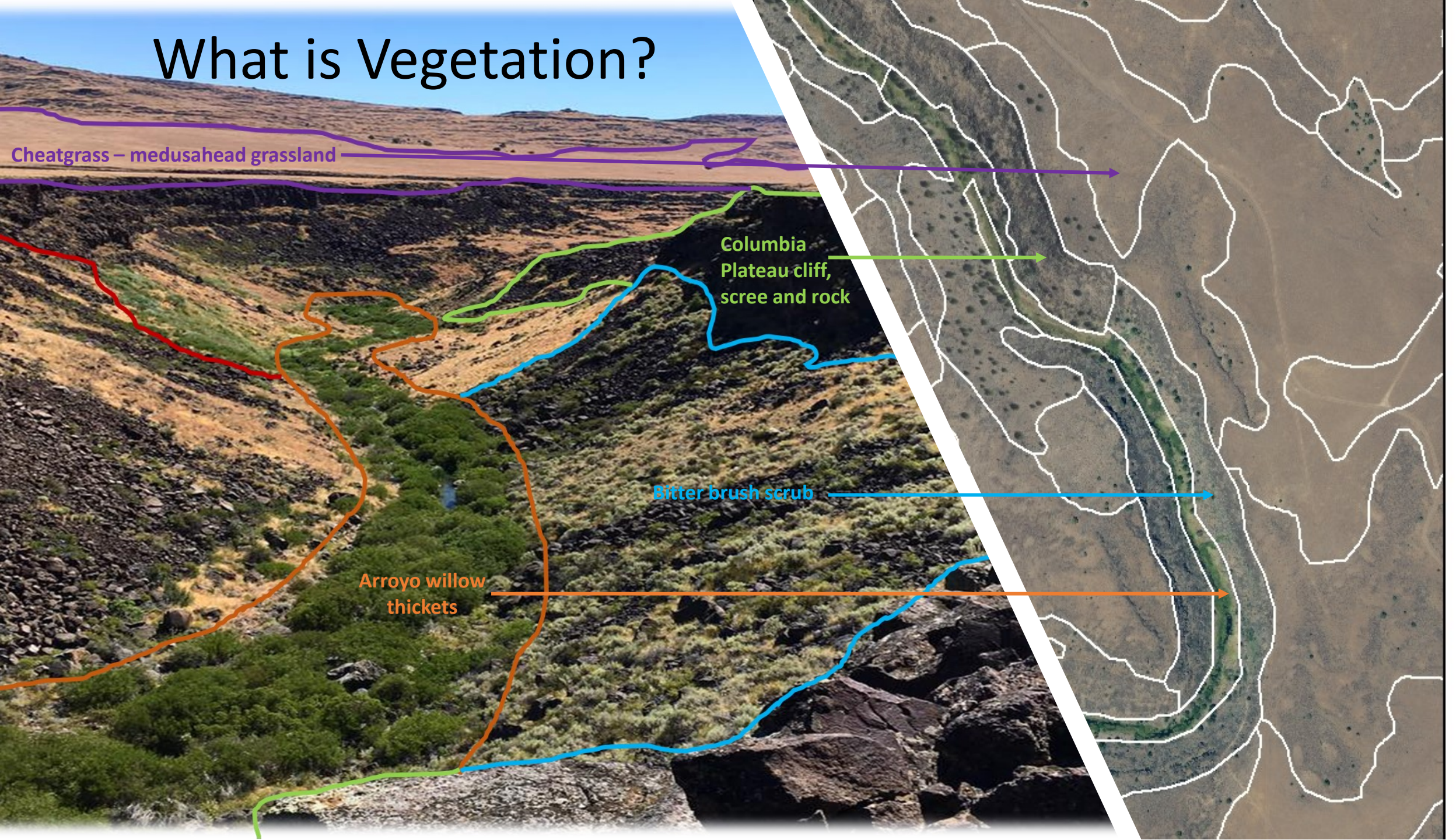
Aerial
Information
Systems



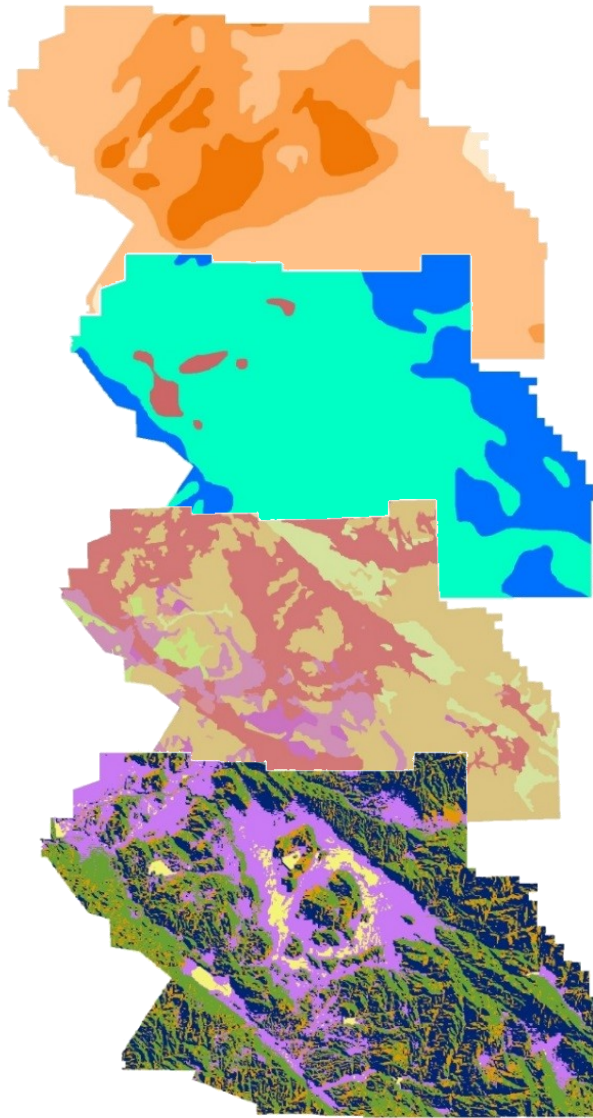
CALIFORNIA
NATIVE PLANT
SOCIETY



What is Vegetation?



Sample allocation



Minimum Temperature
classes

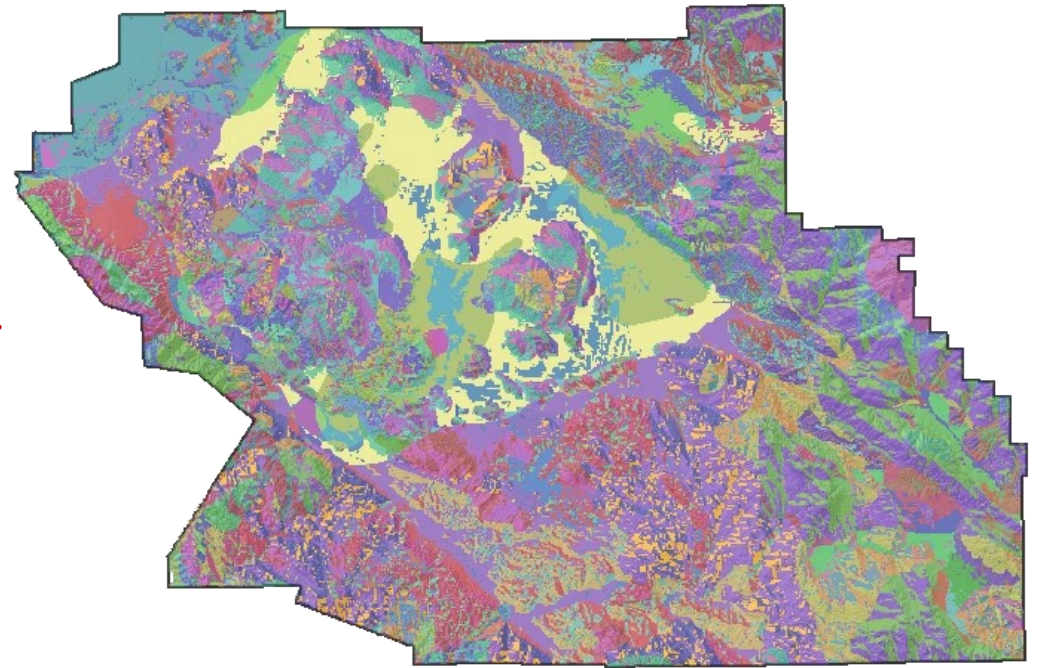
Maximum Temperature
classes

Precipitation
classes

Geology
classes

CalVeg classes

Model Results





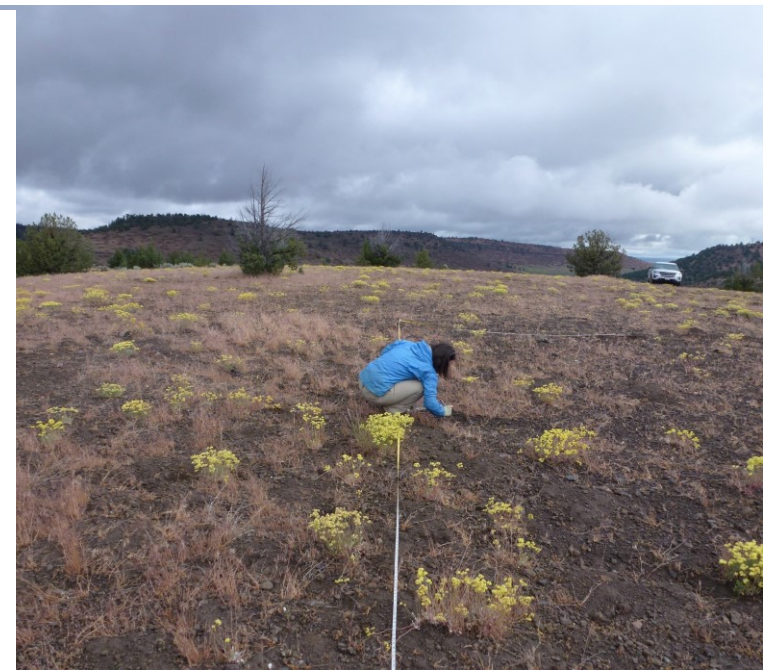
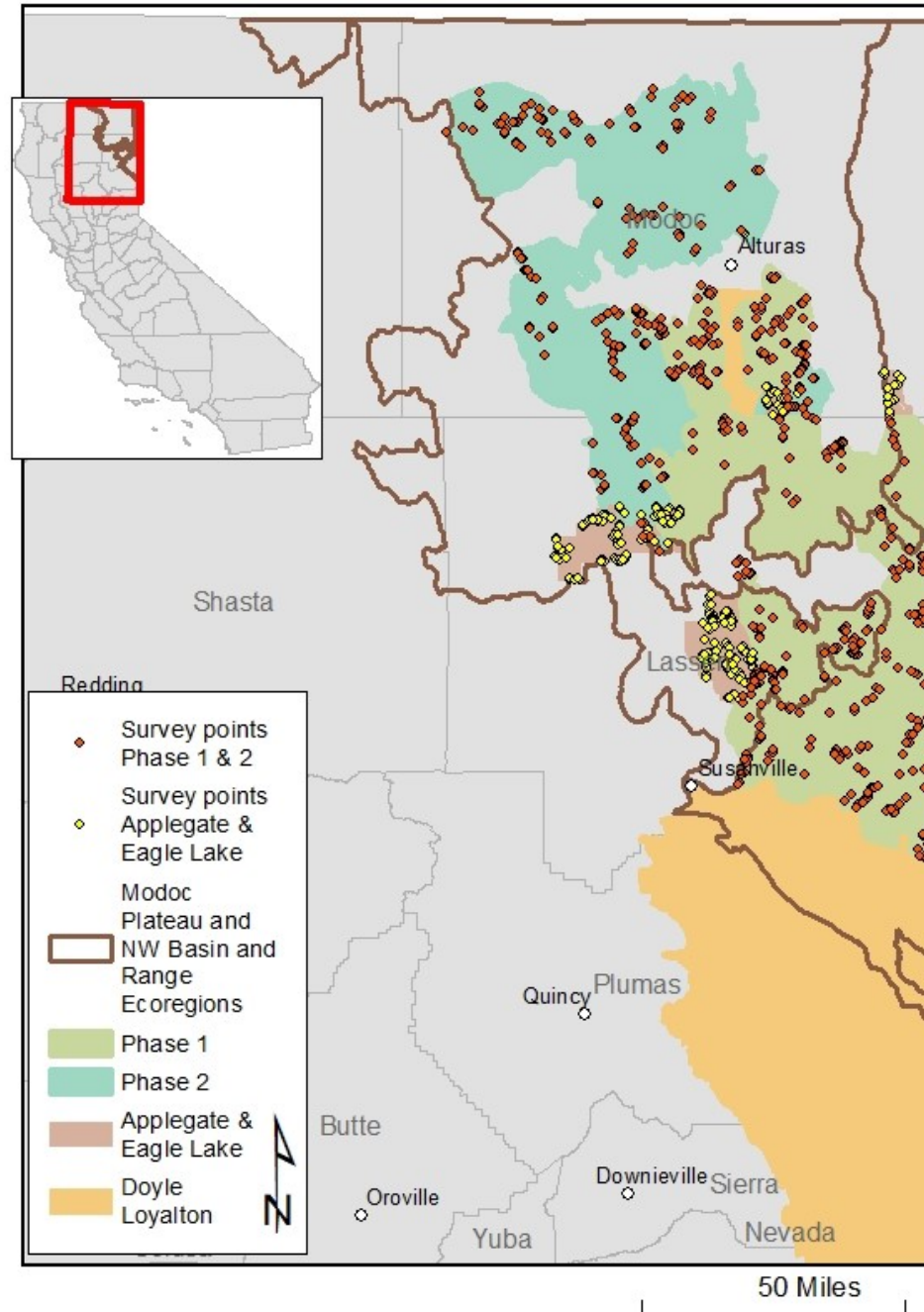
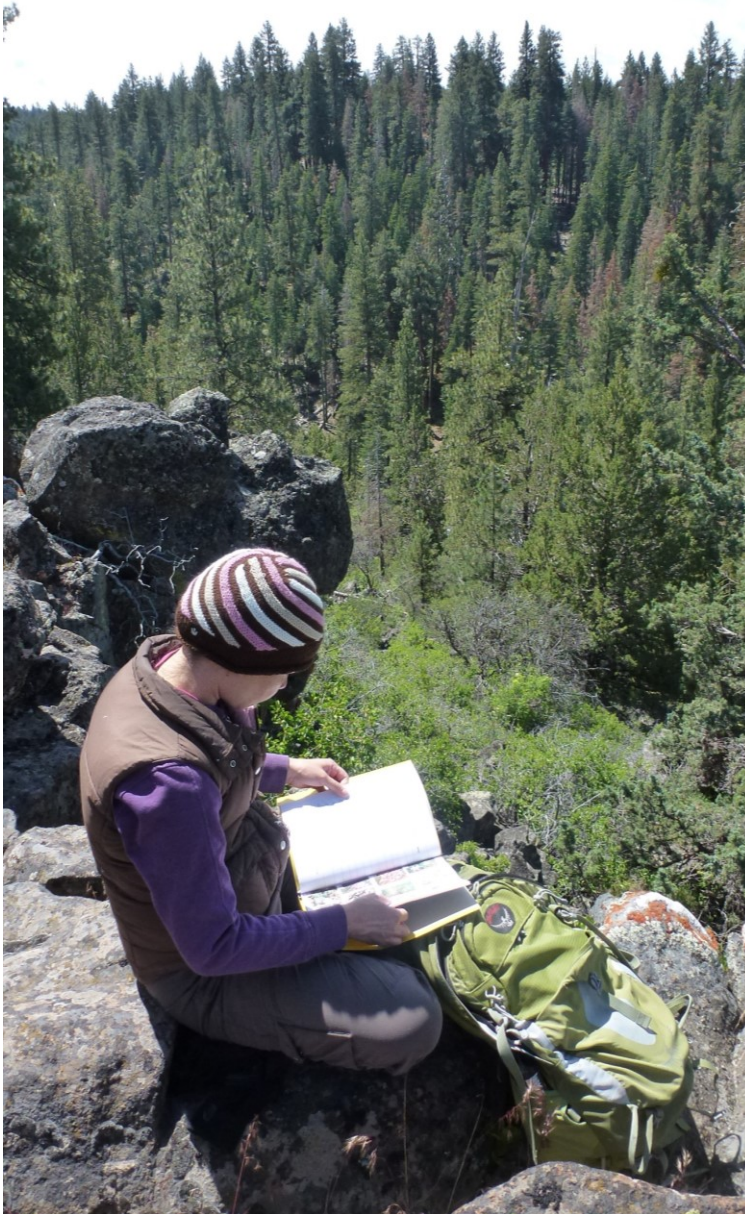
Field Sampling

Field Sampling

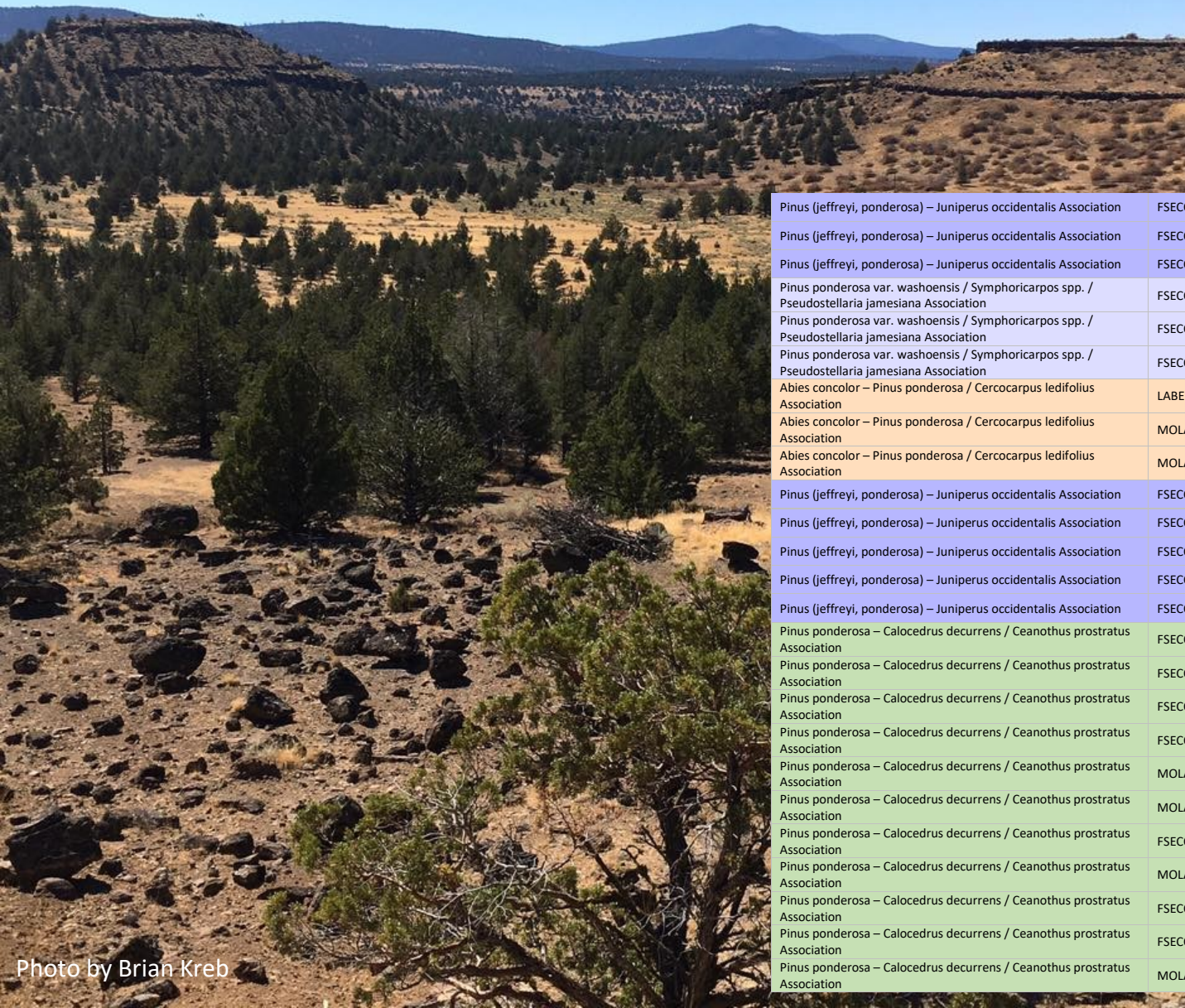
A wide-angle photograph of a grassy field with scattered rocks and wildflowers. Two people wearing hats and carrying equipment are standing in the middle ground, likely conducting field sampling. The background shows a line of trees under a clear sky. The text 'Field Sampling' is overlaid in the top left corner.[illegible]

Field form: <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=18598&inline>
Protocol: <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=18599&inline>

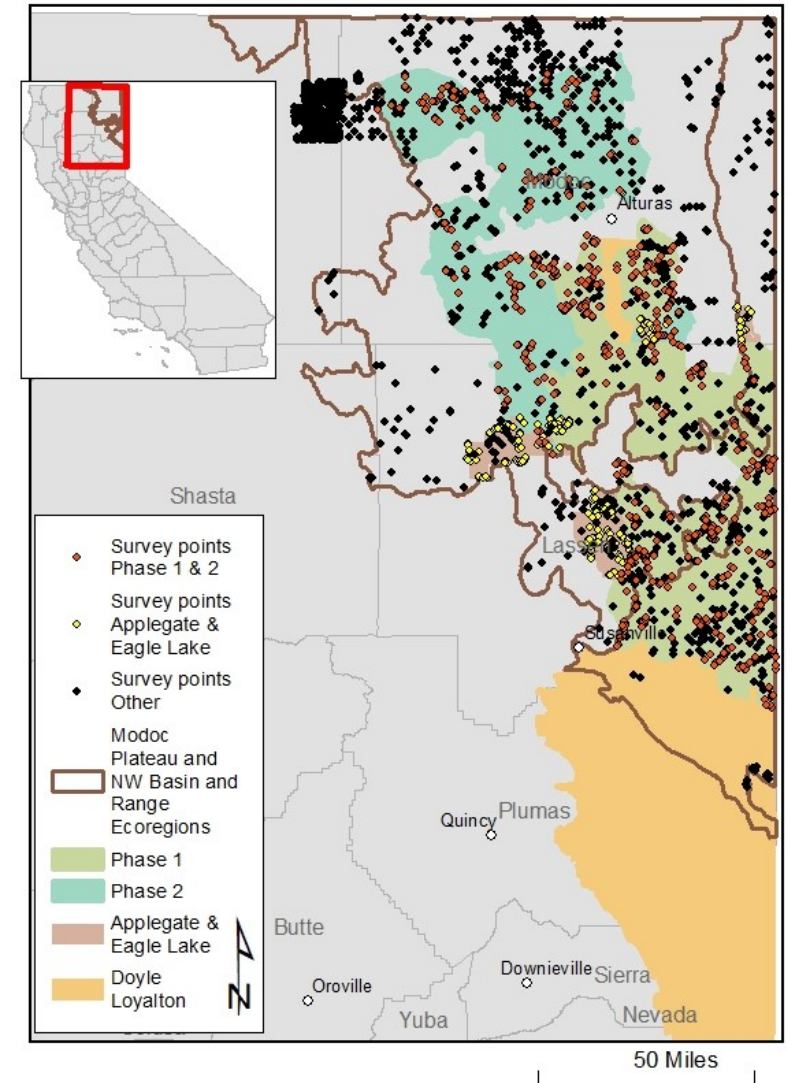
Field Sampling



Classification analysis



Pinus (jeffreyi, ponderosa) – Juniperus occidentalis Association	FSECO039			
Pinus (jeffreyi, ponderosa) – Juniperus occidentalis Association	FSECO041			
Pinus (jeffreyi, ponderosa) – Juniperus occidentalis Association	FSECO357	-----		
Pinus ponderosa var. washoensis / Symphoricarpos spp. / Pseudostellaria jamesiana Association	FSECO048	-----		-----
Pinus ponderosa var. washoensis / Symphoricarpos spp. / Pseudostellaria jamesiana Association	FSECO049		-----	
Pinus ponderosa var. washoensis / Symphoricarpos spp. / Pseudostellaria jamesiana Association	FSECO058			
Abies concolor – Pinus ponderosa / Cercocarpus ledifolius Association	LABE113	---		---
Abies concolor – Pinus ponderosa / Cercocarpus ledifolius Association	MOLA0766	---		-----
Abies concolor – Pinus ponderosa / Cercocarpus ledifolius Association	MOLA0249	-----		
Pinus (jeffreyi, ponderosa) – Juniperus occidentalis Association	FSECO124		--	
Pinus (jeffreyi, ponderosa) – Juniperus occidentalis Association	FSECO125			
Pinus (jeffreyi, ponderosa) – Juniperus occidentalis Association	FSECO341	-----		
Pinus (jeffreyi, ponderosa) – Juniperus occidentalis Association	FSECO459	-----		-----
Pinus (jeffreyi, ponderosa) – Juniperus occidentalis Association	FSECO460	-----		
Pinus ponderosa – Calocedrus decurrens / Ceanothus prostratus Association	FSECO462			-----
Pinus ponderosa – Calocedrus decurrens / Ceanothus prostratus Association	FSECO010	-		---
Pinus ponderosa – Calocedrus decurrens / Ceanothus prostratus Association	FSECO078	-		---
Pinus ponderosa – Calocedrus decurrens / Ceanothus prostratus Association	FSECO366			
Pinus ponderosa – Calocedrus decurrens / Ceanothus prostratus Association	MOLA1163			-----
Pinus ponderosa – Calocedrus decurrens / Ceanothus prostratus Association	MOLA0783	-		
Pinus ponderosa – Calocedrus decurrens / Ceanothus prostratus Association	FSECO014	--		---
Pinus ponderosa – Calocedrus decurrens / Ceanothus prostratus Association	MOLA0767	--		-----
Pinus ponderosa – Calocedrus decurrens / Ceanothus prostratus Association	FSECO017			
Pinus ponderosa – Calocedrus decurrens / Ceanothus prostratus Association	FSECO073			
Pinus ponderosa – Calocedrus decurrens / Ceanothus prostratus Association	MOLA0827		---	



	GIC	VegCAMP	CNPS	Other	Total
# of surveys	428	199	230	1193	2050

Classification and Hierarchy

Forest & Woodland Class

Temperate & Boreal Forest & Woodland Subclass

Cool Temperate Forest & Woodland Formation

Rocky Mountain Forest & Woodland Division

Central Rocky Mountain Dry Lower Montane – Foothill Forest Macrogroup

Central Rocky Mountain Ponderosa Pine Open Woodland Group

Forest & Woodland Class

Temperate & Boreal Forest & Woodland Subclass

Cool Temperate Forest & Woodland Formation

Rocky Mountain Forest & Woodland Division

Central Rocky Mountain Dry Lower Montane – Foothill Forest Macrogroup

Central Rocky Mountain Ponderosa Pine Open Woodland Group

Pinus ponderosa / Shrub Understory Alliance

Pinus (jeffreyi, ponderosa) / (Ceanothus prostratus – Purshia tridentata) Association

Pinus ponderosa – Juniperus occidentalis / Artemisia tridentata – Purshia tridentata Association

Pinus jeffreyi / Artemisia tridentata ssp. vaseyana / Festuca idahoensis Association

Pinus ponderosa / Arctostaphylos patula – Purshia tridentata Association

Pinus ponderosa var. washoensis / Arctostaphylos nevadensis Association

Pinus ponderosa var. washoensis / Symphoricarpos spp. / Pseudostellaria jamesiana Association

Columbia Plateau Western Juniper Open Woodland Group

Juniperus occidentalis Alliance

Juniperus occidentalis – (Pinus jeffreyi – Pinus ponderosa) / Cercocarpus ledifolius Association

Juniperus occidentalis / Artemisia arbuscula / Poa secunda Association

Juniperus occidentalis / Artemisia tridentata – Purshia tridentata Association

Juniperus occidentalis / (Poa secunda – Festuca idahoensis – Pseudoroegneria spicata) Association

Intermountain Basins Curl-leaf Mountain-Mahogany Woodland & Scrub Group

Cercocarpus ledifolius Alliance

Cercocarpus ledifolius – Artemisia tridentata ssp. vaseyana Association

Cercocarpus ledifolius Association

Photo by Brian Krebs

Classification



Desert & Semi-Desert Formation Class

Cool Semi-Desert Scrub & Grassland Formation Subclass

Cool Semi-Desert Scrub & Grassland Formation

Western North American Cool Semi-Desert Scrub & Grassland Division

Intermontane Tall and Dwarf Sagebrush Scrub Steppe Macrogroup

Intermountain Big Sagebrush Steppe & Shrubland Group

Artemisia tridentata Alliance

Artemisia tridentata Association

Great Basin – Intermountain Dwarf Shrub Steppe Group

Eriogonum spp. / Poa secunda Alliance

Eriogonum sphaerocephalum / Poa secunda Association

Classification

61 alliances:

- 4 new
- 8 tree, 25 shrub, and 28 herbaceous

• 26 sensitive

83 associations

- 28 new

- 14 tree, 41 shrub, and 29 herbaceous

- 48 sensitive



Photo by Meredith Gosejohan

Photo by Mike Dolan

Juniperus occidentalis Alliance

Common Name: Western Juniper Woodland Alliance

NVC Alliance Code: A3500. *Juniperus occidentalis* Grassy Open Woodland Alliance

Alliance Concept

The *Juniperus occidentalis* Alliance forms a sparse to continuous tree canopy with a sparse to intermittent shrub understory. It is found primarily on slopes and ridges at all aspects. Soils are derived from a variety of substrates but primarily andesite or basalt, and textures are widely variable. Elevation range is approximately 1157–2030 m. The dominant tree is *Juniperus occidentalis*, the most commonly associated shrub is *Purshia tridentata*, and commonly associated herb species include *Salix trichomanes*, *Poa secunda*, *Elymus elymoides*, and *Festuca idahoensis*.

Diagnostic Criteria: This alliance is characterized by a sparse to continuous tree canopy of *Juniperus occidentalis* which ranges from 0.2 to 80 percent cover. The overall tree cover ranges from 0.2 to 80 percent.

Local Alliance Distribution

Modoc Plateau: Adin Mountains and Valleys (M261Gi), Bald Mountain - Dixie Valley Flat (M261Gc), Devil's Garden (M261Gb), Eagle Lake Observation Peak (M261Gf), Lily-Tulane (M261Gh), Little Five Valley (M261Gj), Warner Mountains (M261Gk)

Northwestern Basin and Range: Eagle Lake Observation Peak (M261Gf), Flows (M261Dh)

Southern Cascades: Blacks Mountain - Susanville Peak (M261Dd), (M261Dh)

Associations

Juniperus occidentalis – (*Pinus jeffreyi* – *Pinus ponderosa*) / *Cercocarpus ledifolius* Ass.

Juniperus occidentalis / *Poa secunda* – *Artemisia tridentata* / *Purshia tridentata* Ass.

Juniperus occidentalis / *Artemisia tridentata* – *Purshia tridentata* Association

Juniperus occidentalis / *Artemisia tridentata* – *Purshia tridentata* Association

Environmental Description

Plot/Sample Data Environmental Summary:

Elevation: Mean 1611 m, Range 1157 – 2030 m

Aspect: NE (79), SW (56), SE (41), NW (39), Flat (8), Variable (5)

Slope: Mean 7.2 degrees, Range 0 – 38 degrees

Macro Topography: Upper 1/3 of slope (7), Middle 1/3 of slope (20), Lower 1/3 of slope (22), Middle 1/3 of slope (8), Ridge top (9), Ridge summit (6), Bench (8), High slope (8), Midslope (8), Upper 1/3 of slope to Ridge top (7), Lower to Upper 1/3 of slope (6), Lower to Middle 1/3 of slope (6), Lowslope (3), Lower 1/3 of slope to Ridge top (2), Toeslope (1), Low level (1), Basal floor (1), Interfluvial/Summit (1)

Tree Cover: Mean 8.1%, Range 0 – 80%

Shrub Cover: Mean 12.2%, Range 0 – 60%

Herb Cover: Mean 18%, Range 1 – 80%

Large Rock: Mean 12.2%, Range 0 – 71%

Small Rock: Mean 22.3%, Range 1 – 68%

Juniperus occidentalis Alliance

n = 343

Lifeform	Botanical Name	Con	Avg	Min	Max
Tree	<i>Juniperus occidentalis</i>	99	16.15	0.2	80
Sapling	<i>Juniperus occidentalis</i>	27	1.69	0.2	37.5
Seedling	<i>Juniperus occidentalis</i>	33	0.73	0.2	3
Shrub	<i>Purshia tridentata</i>	53	3.97	0.2	30
	<i>Artemisia arbuscula</i>	42	7.34	0.2	32
	<i>Artemisia tridentata</i>	36	6.63	0.2	37
	<i>Artemisia tridentata</i>	28	1.29	0.2	7
	<i>Artemisia tridentata</i> ssp. vaseyana	22	7.15	0.2	31
	<i>Artemisia tridentata</i> ssp. vaseyana	19	1.85	0.2	15
	<i>Artemisia tridentata</i> ssp. vaseyana	13	1.41	0.2	11
	<i>Artemisia tridentata</i> ssp. vaseyana	13	1.43	0.2	11
	<i>Artemisia tridentata</i> ssp. vaseyana	87	4.91	0.2	44
	<i>Artemisia tridentata</i> ssp. vaseyana	78	4.7	0.2	62
	<i>Artemisia tridentata</i> ssp. vaseyana	72	2.13	0.2	20
	<i>Artemisia tridentata</i> ssp. vaseyana	52	7.9	0.2	60
	<i>Artemisia tridentata</i> ssp. vaseyana	49	3.99	0.2	37.5
	<i>Artemisia tridentata</i> ssp. vaseyana	38	2.77	0.2	20
	<i>Artemisia tridentata</i> ssp. vaseyana	29	2.77	0.2	37
	<i>Artemisia tridentata</i> ssp. vaseyana	27	1.06	0.2	4
	<i>Artemisia tridentata</i> ssp. vaseyana	19	1.26	0.2	7
	<i>Artemisia tridentata</i> ssp. vaseyana	18	1.91	0.2	26
	<i>Artemisia tridentata</i> ssp. vaseyana	17	1.24	0.2	17
	<i>Artemisia tridentata</i> ssp. vaseyana	15	1.02	0.2	10
	<i>Artemisia tridentata</i> ssp. vaseyana	14	1.08	0.2	5
	<i>Artemisia tridentata</i> ssp. vaseyana	14	1.13	0.2	8
	<i>Artemisia tridentata</i> ssp. vaseyana	13	2.08	0.2	18
	<i>Artemisia tridentata</i> ssp. vaseyana	12	1.32	0.2	7
	<i>Artemisia tridentata</i> ssp. vaseyana	12	1.8	0.2	18
	<i>Artemisia tridentata</i> ssp. vaseyana	12	1.23	0.2	6
	<i>Artemisia tridentata</i> ssp. vaseyana	12	1.38	0.2	4
	<i>Artemisia tridentata</i> ssp. vaseyana	11	2.24	0.2	11
	<i>Artemisia tridentata</i> ssp. vaseyana	11	2.09	0.2	10
	<i>Artemisia tridentata</i> ssp. vaseyana	11	1.21	0.2	5
	<i>Artemisia tridentata</i> ssp. vaseyana	11	0.85	0.2	3
	<i>Artemisia tridentata</i> ssp. vaseyana	10	0.59	0.2	1
	<i>Artemisia tridentata</i> ssp. vaseyana	10	1.19	0.2	10

Stand Table

Descriptions

Distribution

Associations

Environmental description

II. Shrubland

- 1) Upland shrub stands dominated or co-dominated by a species of *Artemisia* and/or *Purshia tridentata*.
 - a) Stands characterized by the low subshrub *Artemisia arbuscula* and/or *A. nova* (dominant layer is generally < 0.5 m tall).
 - i) *Artemisia arbuscula* is strongly dominant to co-dominant in the shrub layer. *Purshia tridentata*, *Artemisia tridentata*, *Ericameria* spp., and *Chrysothamnus* spp. may be co-dominant to sub-dominant. *A. arbuscula* stands tend to grow on flats or gradual slopes and tolerate heavier clay soils ("pimpled plains" clay accretion mounds), or otherwise more impervious (shallow, or very rocky) soil than the various subspecies of *A. tridentata*. Stands are susceptible to type conversion. Many stands are in transition between *Artemisia arbuscula* and non-native annual grasses (*Bromus tectorum*, *Ventenata dubia*, and *Elymus caput-medusae*) or are sites of rapid and recent colonization by *Juniperus occidentalis*.
 - A. arbuscula* ssp. *arbuscula* dominates. *Artemisia nova* is absent.

Artemisia arbuscula Alliance (n=192)

A. arbuscula is dominant and evenly distributed in the shrub layer and is usually cover although it may be as low as 3% absolute cover. Herb layer is very dense and is usually dominated by native grasses such as *Poa secunda* and *Pegleria spicata* although non-native annual grasses can exceed. Other herbs may include *Blepharipappus scaber*, *Epilobium*, and *Antennaria dimorpha*. Typically found on flats or gentle slopes (0-5% slope) with variable cover (0-35%) of surficial rock (cobble, stone, boulder, and/or gravel).

Artemisia arbuscula / *Poa secunda* Association (n=130)

Stands are in a degraded state from clearing, grazing, fire, or other disturbances (although the mode of disturbance may not be obvious). *A. arbuscula* is dominant in the shrub layer although it may have a low as 5% absolute cover. The herbaceous layer typically has higher cover than more pristine stands of the alliance and is dominated by non-native annual grasses such as *Bromus tectorum* and *Elymus caput-medusae*. Native herbaceous cover is usually insignificant.

Artemisia arbuscula / *Bromus* spp. – *Elymus caput-medusae* Association (n=19)

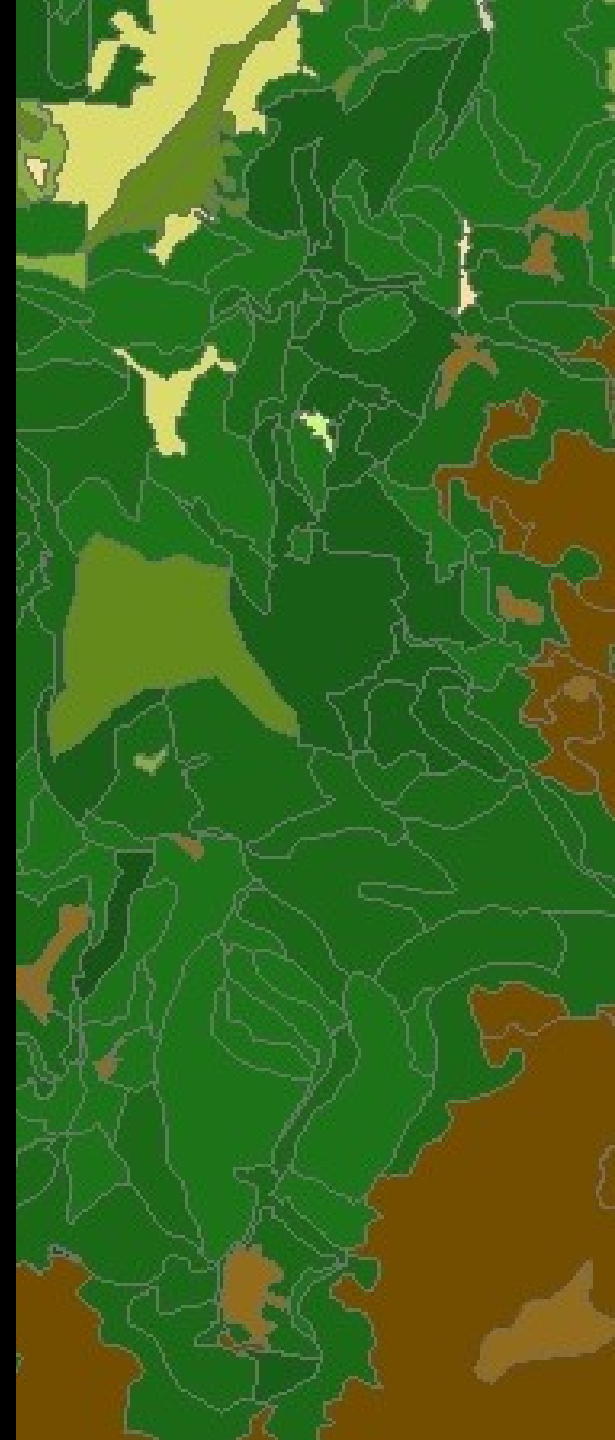
- (3) *Artemisia arbuscula* is the dominant shrub and one or more *Eriogonum* spp. subshrubs is characteristically present. Soils are very shallow with insignificant organic content, and the substrate is often derived from ash flows or pumice and may often be less weathered than other local sub-shrub vegetation. Herb layer is very sparse but typically high in native forb diversity including *Phlox hoodii*, *Balsamorhiza hookeri*, *Phoenicautis cheiranthoides*, *Lomatium* spp., and annual *Eriogonum* spp.

Artemisia arbuscula – *Eriogonum* (*microthecum*, *sphaerocephalum*) Association (n=27)

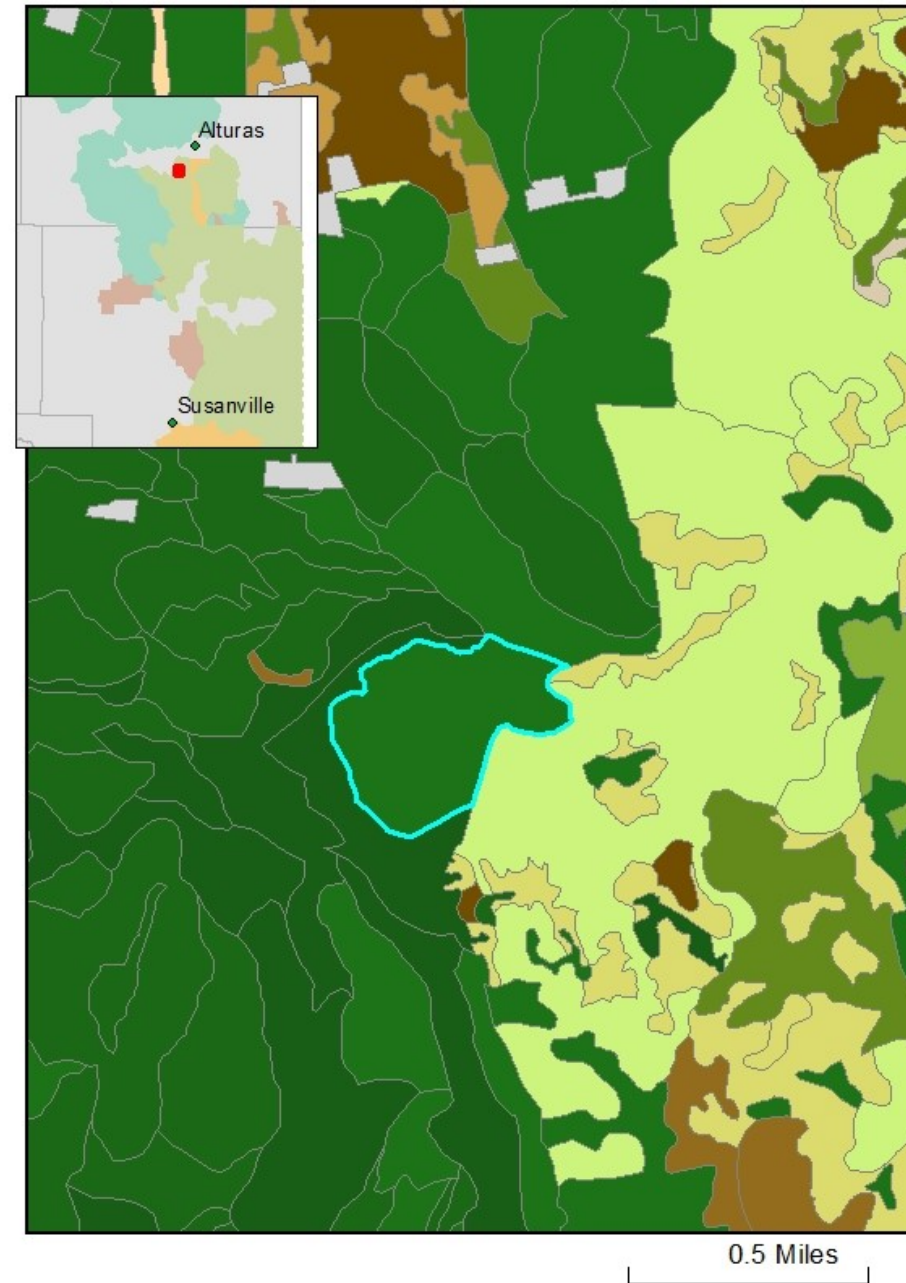
Vegetation Key



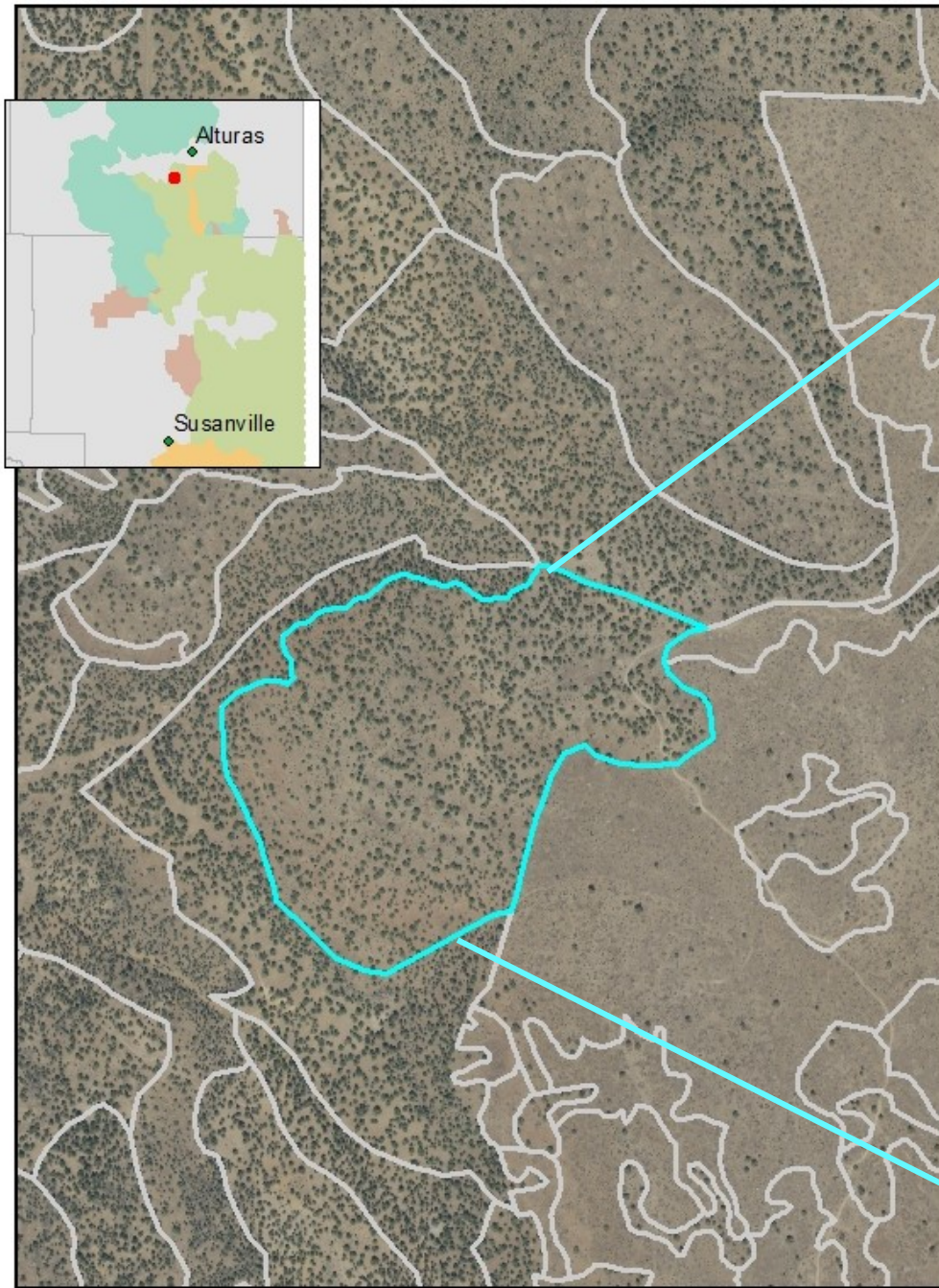
Map



Map



Map Attributes



Field	Value
ALLIANCE_S	Juniperus occidentalis Woodland
ASSOCIATION	Juniperus occidentalis / Artemisia tridentata – Purshia tridentata
PER_HARDWO	0
PER_CONIFE	16
PER_TREE	16
PER_SHRUB	4
HERB_CODE	10 - 40%
PER_TOTAL	45
HT_CODE	5-10 meters
SIZE_CATEG	Small (11-24")
JUOC_EXPAN	.2-1% young JUOC (<6" DBH)
RESTORATION	None Obvious
ISOLATED_T	<null>
CLEARING_D	None visible
ROADEDNESS	Low (>66% is roadless)
DEVELOPMENT	None visible
INVASIVE_P	Visible patches, not sig. rc<33%
COMMENTS	<null>
Acres	45.265608
MethodID	<null>
NVCSName	Juniperus occidentalis / Artemisia tridentata - Purshia tridentata
NVCSLevel	Association
CaCode	89.400.06
NVCSAlliance	Juniperus occidentalis
NVCSGroup	Columbia Plateau Western Juniper Open Woodland
NVCSMG	Intermountain Singleleaf Pinyon - Juniper Woodland
CalVegName	Western Juniper
CalVegCode	WJ
CWHRType	Juniper
CWHRCode	JUN
GlobalRank	<null>
StateRank	<null>
Rare	No

← Vegetation Type

← Strata Covers

← Height and Size

← Juniper

← Isolated tree

← Disturbances

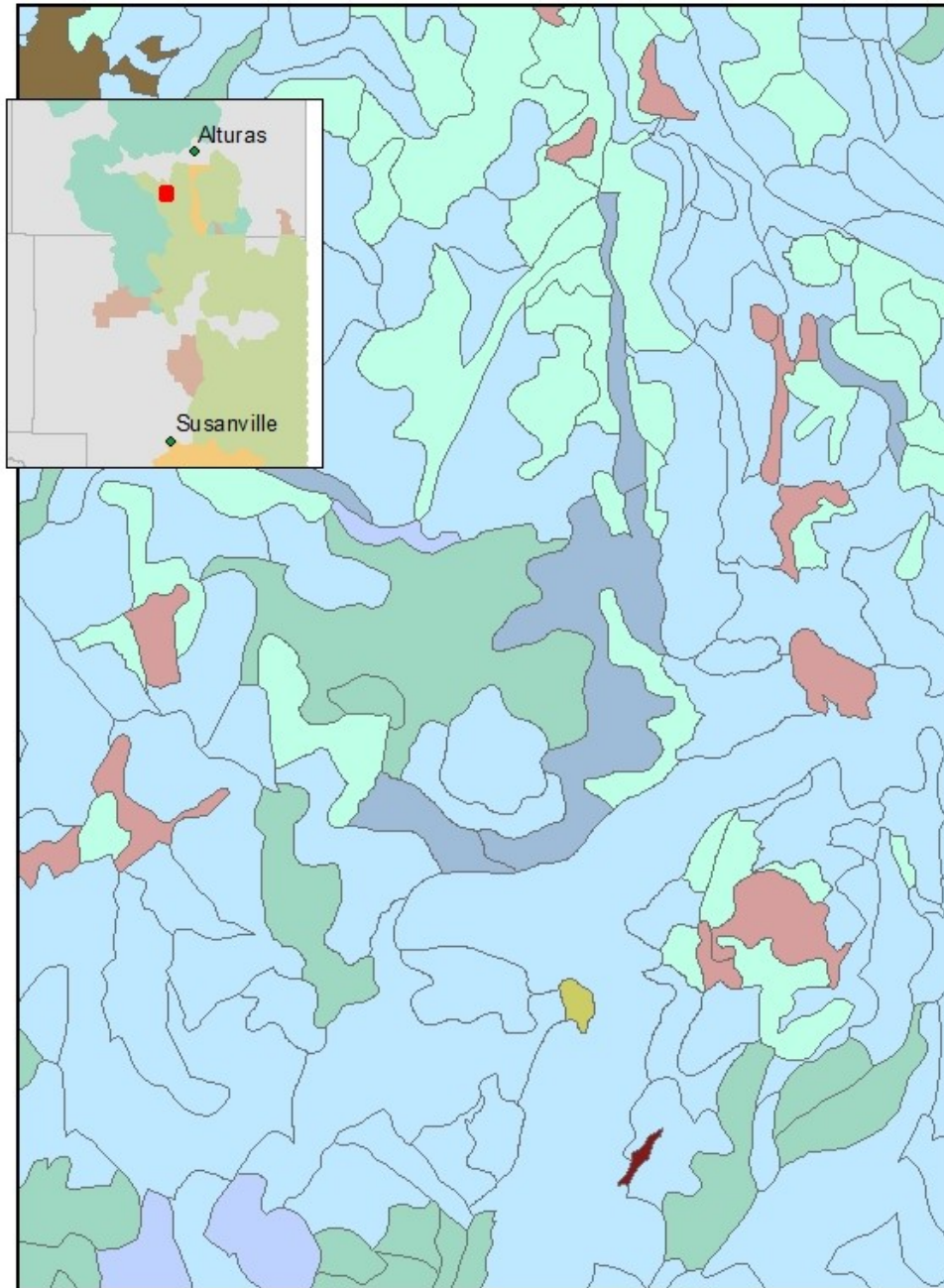
← Other

← Hierarchy

← Crosswalks

← Rarity

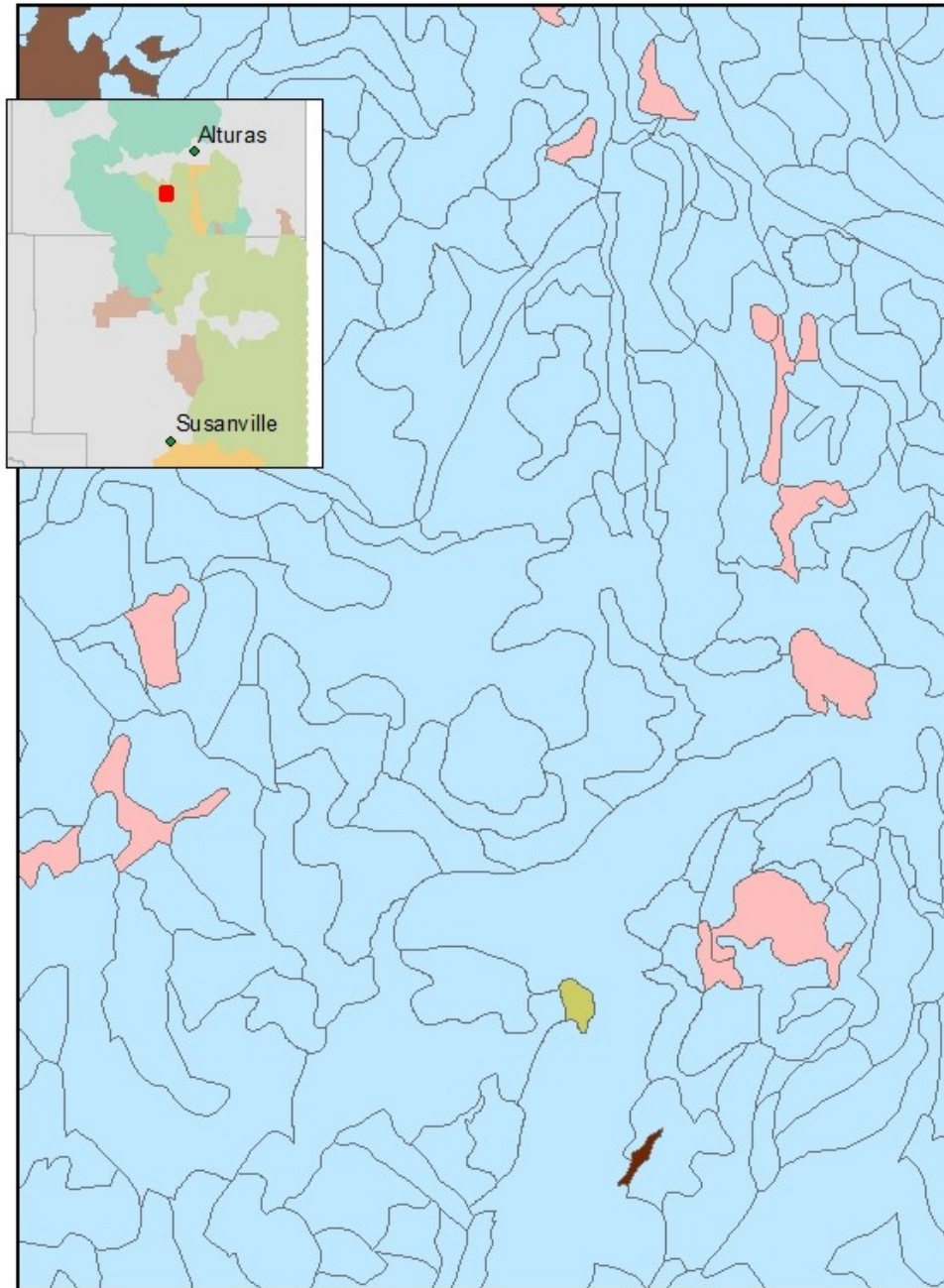
The map is scalable



ASSOCIATION

- Juniperus occidentalis / Artemisia arbuscula / Poa secunda
- Juniperus occidentalis / Artemisia tridentata – Purshia tridentata
- Juniperus occidentalis / Cercocarpus ledifolius
- Juniperus occidentalis / Pseudoroegneria spicata Wooded Grassland
- Juniperus occidentalis / Purshia tridentata / Festuca idahoensis – Pseudoroegneria spicata
- Juniperus occidentalis – Pinus jeffreyi / (Purshia tridentata, Prunus virginiana)
- Artemisia arbuscula / Poa secunda
- Artemisia tridentata Shrubland
- Purshia tridentata – Artemisia tridentata
- Elymus spicatus – Poa secunda Grassland

The map is scalable



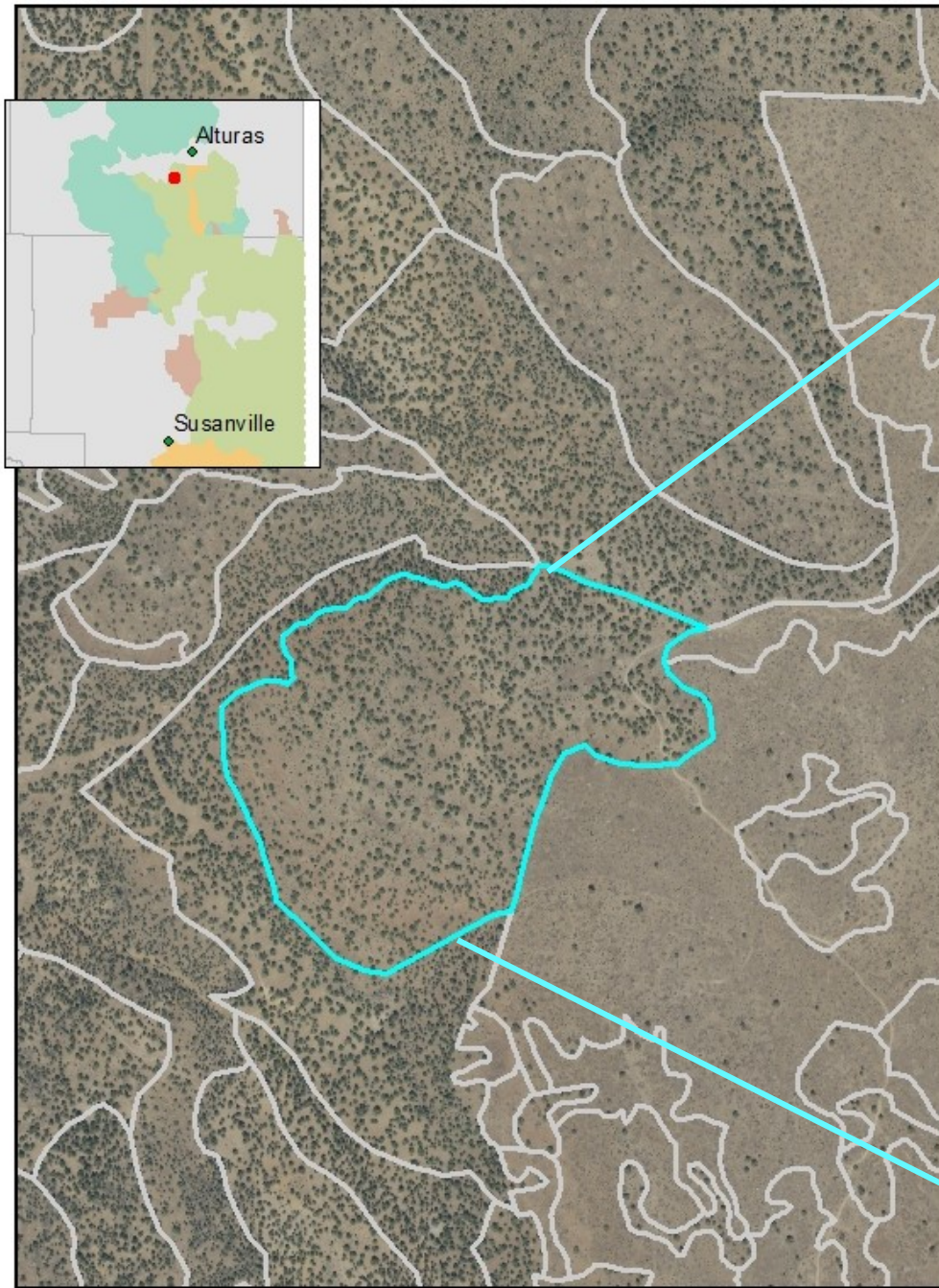
Alliance

- Juniperus occidentalis*
- Artemisia arbuscula*
- Artemisia tridentata*
- Purshia tridentata* - *Artemisia tridentata*
- Festuca idahoensis* - *Pseudoroegneria spicata* - *Poa secunda*

ASSOCIATION

- Juniperus occidentalis* / *Artemisia arbuscula* / *Poa secunda*
- Juniperus occidentalis* / *Artemisia tridentata* – *Purshia tridentata*
- Juniperus occidentalis* / *Cercocarpus ledifolius*
- Juniperus occidentalis* / *Pseudoroegneria spicata* Wooded Grassland
- Juniperus occidentalis* / *Purshia tridentata* / *Festuca idahoensis* – *Pseudoroegneria spicata*
- Juniperus occidentalis* – *Pinus jeffreyi* / (*Purshia tridentata*, *Prunus virginiana*)
- Artemisia arbuscula* / *Poa secunda*
- Artemisia tridentata* Shrubland
- Purshia tridentata* – *Artemisia tridentata*
- Elymus spicatus* – *Poa secunda* Grassland

Map Attributes



Field	Value
ALLIANCE_S	Juniperus occidentalis Woodland
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PER_HARDWO	0
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PER_SHRUB	4
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HT_CODE	5-10 meters
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CLEARING_D	None visible
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DEVELOPMENT	None visible
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CalVegName	Western Juniper
CalVegCode	WJ
CWHRType	Juniper
CWHRCode	JUN
GlobalRank	<null>
StateRank	<null>
Rare	No

← Vegetation Type

← Strata Covers

← Height and Size

← Juniper

← Isolated tree

← Disturbances

← Other

← MCV/NVC info

← Crosswalks

← Rarity



Conifer % cover; Shrub % cover

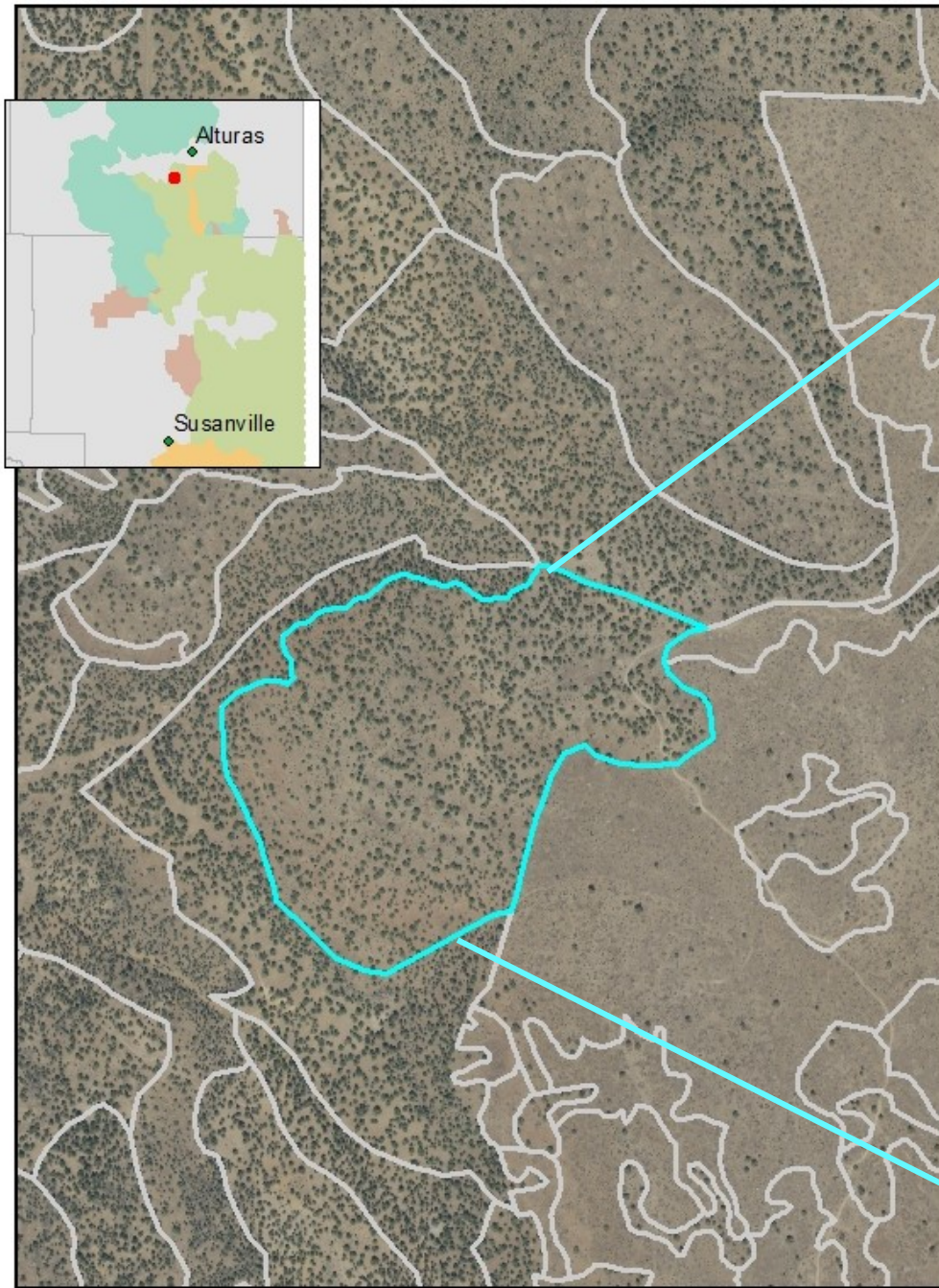
Juniperus occidentalis / Artemisia tridentata – Purshia tridentata



Strata cover breaks

1= $\leq$ 1%; 2>=1-5%; 3>=5-15%; 4>=15-25%; 5>=25-50%; 6>=50-75%; 7>=75%

Map Attributes



Field	Value
ALLIANCE_S	Juniperus occidentalis Woodland
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CLEARING_D	None visible
ROADEDNESS	Low (>66% is roadless)
DEVELOPMENT	None visible
INVASIVE_P	Visible patches, not sig. rc<33%
COMMENTS	<null>
Acres	45.265608
MethodID	<null>
NVCSName	Juniperus occidentalis / Artemisia tridentata - Purshia tridentata
NVCSLevel	Association
CaCode	89.400.06
NVCSAlliance	Juniperus occidentalis
NVCSGroup	Columbia Plateau Western Juniper Open Woodland
NVCSMG	Intermountain Singleleaf Pinyon - Juniper Woodland
CalVegName	Western Juniper
CalVegCode	WJ
CWHRTYPE	Juniper
CWHRCode	JUN
GlobalRank	<null>
StateRank	<null>
Rare	No

← Vegetation Type

← Strata Covers

← Height and Size

← Juniper

← Isolated tree

← Disturbances

← Other

← MCV/NVC info

← Crosswalks

← Rarity

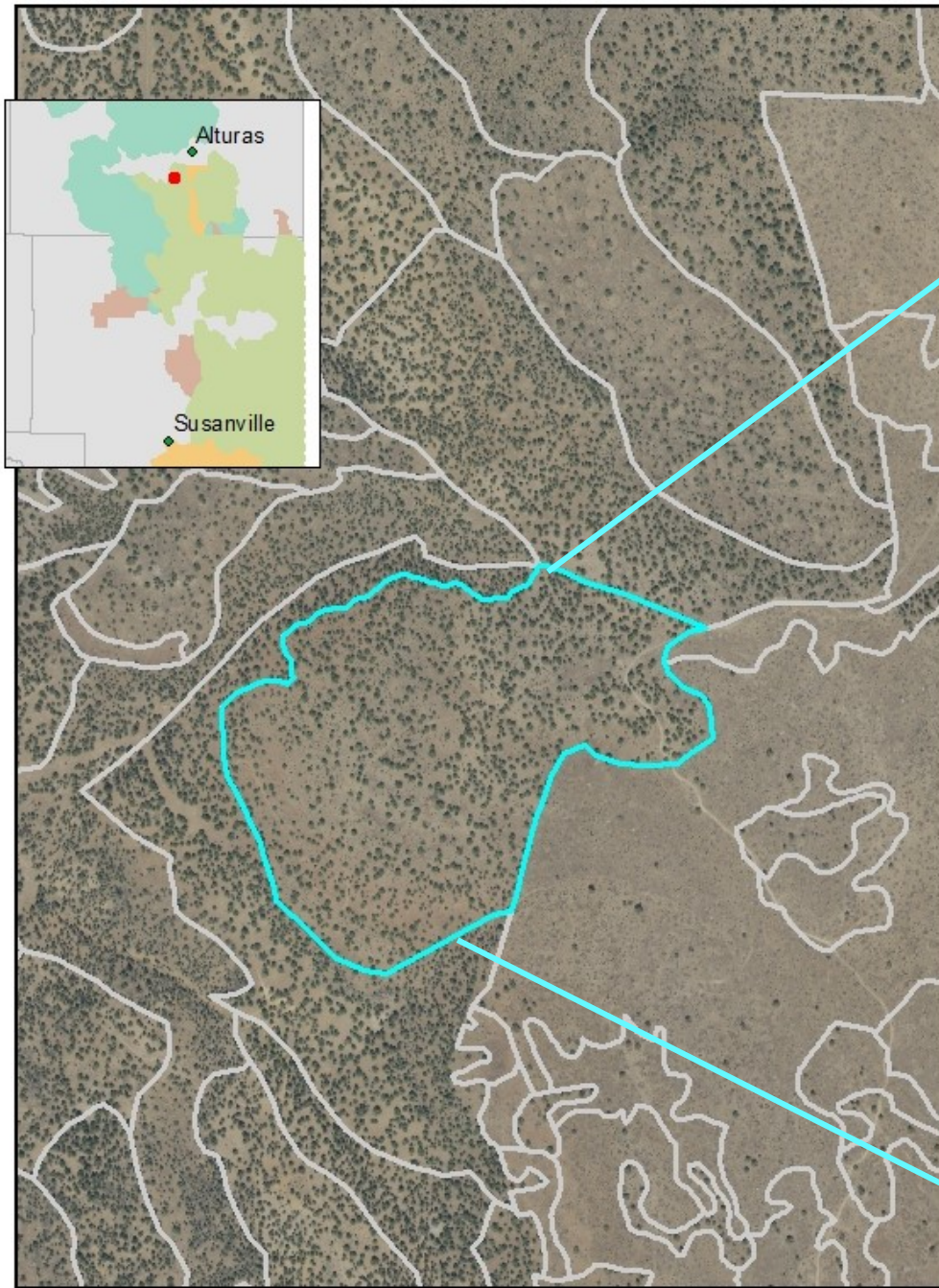
0.25 Miles



Juniper expansion & restoration

Invasion (young JUOC <6" dbh): 0=none visible; 1=0-4% young; 2=4-10% young; 3= >10% young

Map Attributes



Field	Value
ALLIANCE_S	Juniperus occidentalis Woodland
ASSOCIATION	Juniperus occidentalis / Artemisia tridentata – Purshia tridentata
PER_HARDWO	0
PER_CONIFE	16
PER_TREE	16
PER_SHRUB	4
HERB_CODE	10 - 40%
PER_TOTAL	45
HT_CODE	5-10 meters
SIZE_CATEG	Small (11-24")
JUOC_EXPAN	.2-1% young JUOC (<6" DBH)
RESTORATION	None Obvious
ISOLATED_T	<null>
CLEARING_D	None visible
ROADEDNESS	Low (>66% is roadless)
DEVELOPMENT	None visible
INVASIVE_P	Visible patches, not sig. rc<33%
COMMENTS	<null>
Acres	45.265608
MethodID	<null>
NVCSName	Juniperus occidentalis / Artemisia tridentata - Purshia tridentata
NVCSLevel	Association
CaCode	89.400.06
NVCSAlliance	Juniperus occidentalis
NVCSGroup	Columbia Plateau Western Juniper Open Woodland
NVCSMG	Intermountain Singleleaf Pinyon - Juniper Woodland
CalVegName	Western Juniper
CalVegCode	WJ
CWHRType	Juniper
CWHRCode	JUN
GlobalRank	<null>
StateRank	<null>
Rare	No

← Vegetation Type

← Strata Covers

← Height and Size

← Juniper

← Isolated tree

← Disturbances

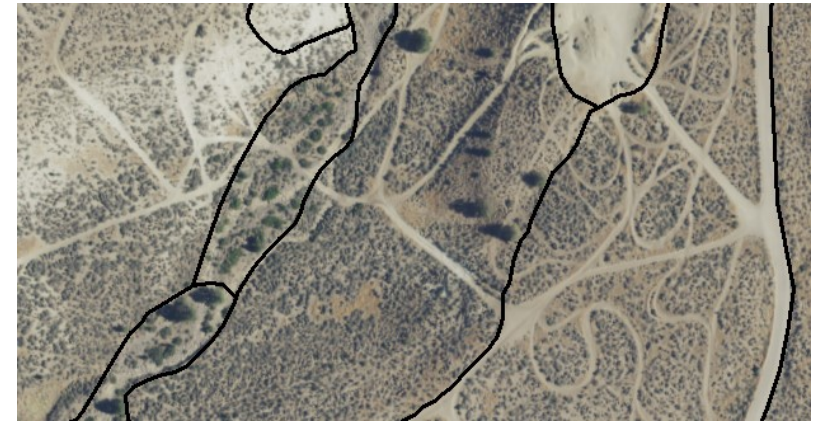
← Other

← MCV/NVC info

← Crosswalks

← Rarity

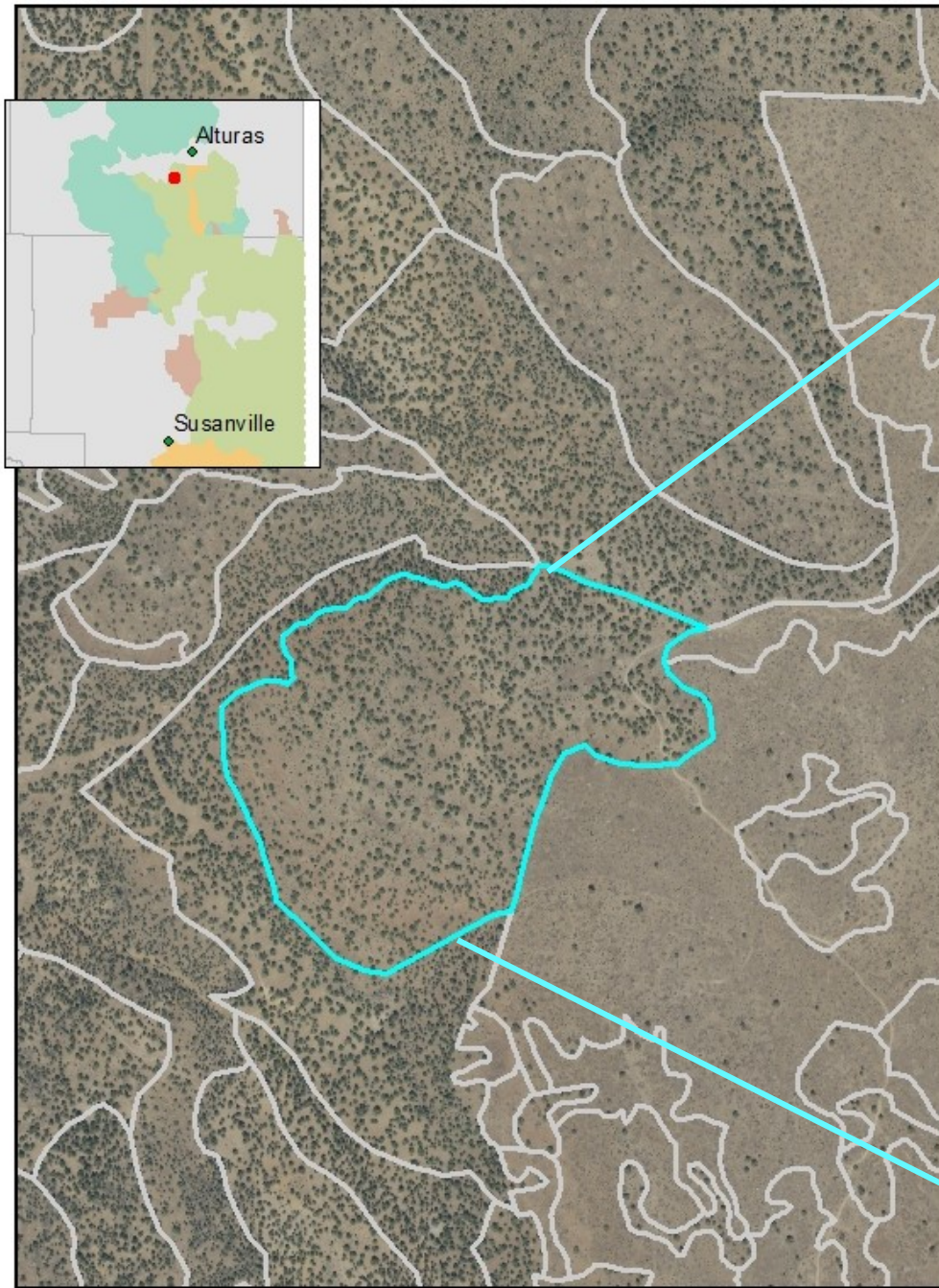
0.25 Miles



Disturbances

0 = None visible; 1 = Low (less than 2% of polygon affected); 2 = Moderate (2-5% of polygon is affected); 3 = High (>5% of polygon is affected)

Map Attributes



Field	Value
ALLIANCE_S	Juniperus occidentalis Woodland
ASSOCIATION	Juniperus occidentalis / Artemisia tridentata – Purshia tridentata
PER_HARDWO	0
PER_CONIFE	16
PER_TREE	16
PER_SHRUB	4
HERB_CODE	10 - 40%
PER_TOTAL	45
HT_CODE	5-10 meters
SIZE_CATEG	Small (11-24")
JUOC_EXPAN	.2-1% young JUOC (<6" DBH)
RESTORATION	None Obvious
ISOLATED_T	<null>
CLEARING_D	None visible
ROADEDNESS	Low (>66% is roadless)
DEVELOPMENT	None visible
INVASIVE_P	Visible patches, not sig. rc<33%
COMMENTS	<null>
Acres	45.265608
MethodID	<null>
NVCSName	Juniperus occidentalis / Artemisia tridentata - Purshia tridentata
NVCSLevel	Association
CaCode	89.400.06
NVCSAlliance	Juniperus occidentalis
NVCSGroup	Columbia Plateau Western Juniper Open Woodland
NVCSMG	Intermountain Singleleaf Pinyon - Juniper Woodland
CalVegName	Western Juniper
CalVegCode	WJ
CWHRTYPE	Juniper
CWHRCode	JUN
GlobalRank	<null>
StateRank	<null>
Rare	No

← Vegetation Type

← Strata Covers

← Height and Size

← Juniper

← Isolated tree

← Disturbances

← Other

← MCV/NVC info

← Crosswalks

← Rarity

0.25 Miles

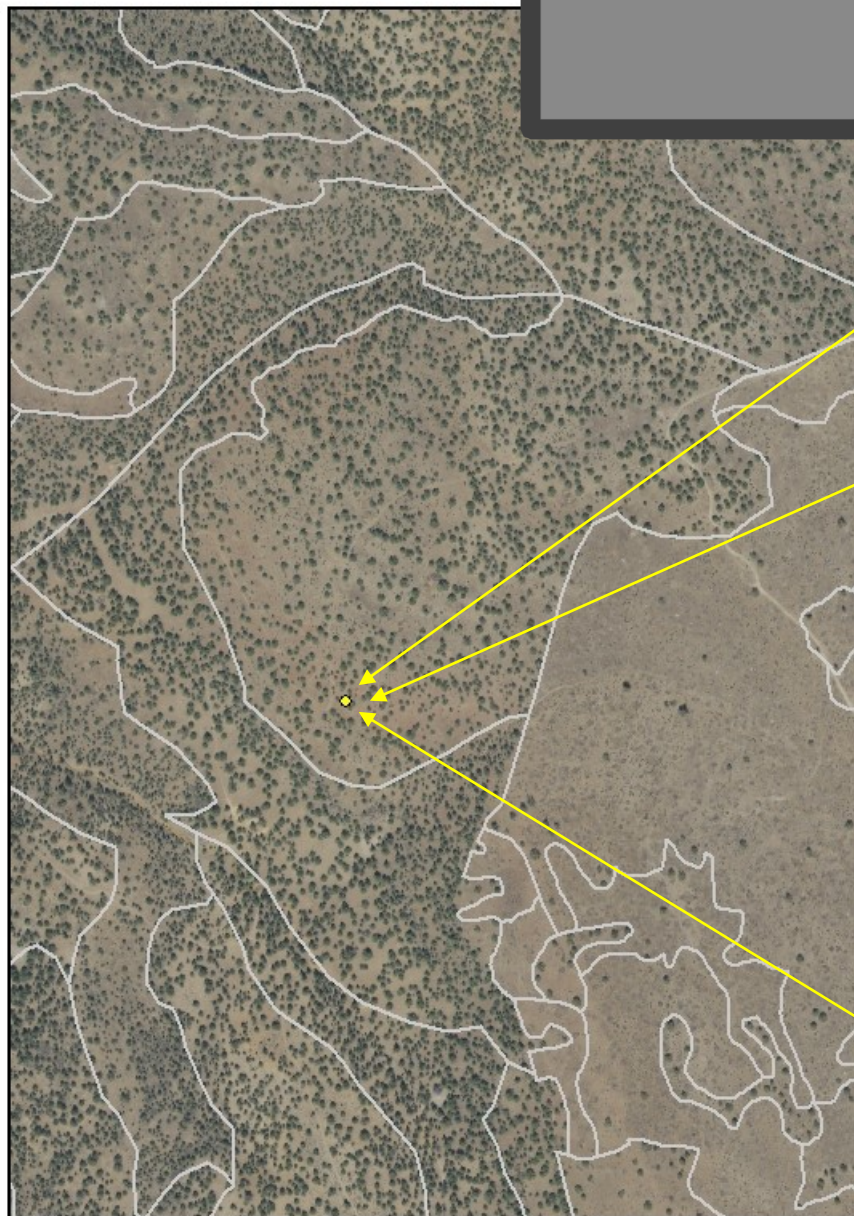
Community Rarity Ranking

<https://vegetation.cnps.org/>

<https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=153609&inline>

Vegetation Type	Rank
Mojave Mid-Elevation Mixed Desert Scrub Group	–
Ephedra nevadensis - Lycium andersonii - Grayia spinosa Alliance	G5/S3S4
Intermountain Tall and Dwarf Sagebrush Scrub Steppe <u>Macrogroup</u>	–
Intermountain Ruderal Steppe and Shrubland Group	–
Bromus tectorum – Elymus caput-medusae Alliance	N/A
Bromus tectorum Association	N/A
Elymus caput-medusae Provisional Association	N/A
Ventenata dubia Provisional Association	N/A
Basin – Intermountain Dwarf Shrub Steppe Group	–
temisia arbuscula Alliance	G5/S4
temisia arbuscula / Poa secunda Association	Y
temisia arbuscula / Bromus spp. – Elymus caput-medusae Association	N/A
temisia arbuscula – Eriogonum (microthecum, sphaerocephalum) Association	G2G3?
temisia arbuscula ssp. arbuscula / Festuca idahoensis Association	Y
temisia arbuscula ssp. longicaulis – Grayia spinosa Shrubland Association	N
Grayia nova Alliance	G4/S3
Grayia nova / Poa secunda Association	Y
Bromus spp. / Poa secunda Alliance	GNR/S3
Eriogonum sphaerocephalum / Poa secunda Association	Y
Big Sagebrush Steppe & Shrubland Group	–
Ventenata Alliance	G5/S5
Ventenata / Distichlis spicata Provisional Association	Y
Ventenata – Ephedra viridis / Pseudoroegneria spicata Association	N
Ventenata Association	N
Ventenata – (Ericameria nauseosa) / Bromus tectorum Association	N
Elymus vaseyana Alliance	G4/S4
Elymus vaseyana / Festuca idahoensis Association	Y
Elymus vaseyana – Symphoricarpos <u>oreophilus</u> / Bromus carinatus Association	N
Elymus Association	N
Elymus dorrii – Chamaebatiaria millefolium Association	Y
Grayia tridentata Alliance	G4/S3
Grayia tridentata Association	Y
Grayia tridentata / Achnatherum hymenoides Association	Y
Provisional Association	Y
	–
Association	–
	–
Shrub Group	–

Testing Accuracy



0.2 Miles

Polygon UID	MLVA04922	Surveyors	LEGB, APH, TKW, JSR	Survey Date	4/19/2018	Photos	TKW: 0789-0792 > N-W
GPS Name	A	Projected?	No	Base ID		UTM_E	697803
						UTM_N	4585610
Field Map Unit:	Juniperus occidentalis / Artemisia tridentata - Purshia tridentata Association						323
2nd Map Unit:							
P I Map Unit:	Juniperus occidentalis / Artemisia tridentata Purshia tridentata Association						323
Final Call:	Juniperus occidentalis / Artemisia tridentata - Purshia tridentata Association						323
Field Comments:	Vegetation covered in light dusting of snow. There is a 4wd road northwest approximately 10 m from the plot's center. Outer flagging to the north is approximately 12 degrees to north. All of the 50 m flagging is not the cardinal direction exactly. See the point count census form for additional data. Linework is okay; on the southwest edge, line naturally follows cliff. Juniper occidentalis is denser and shrub cover is less dense past the cliff than the map displays.						
Radius Viewed		Percent Viewed	30	Points in this polygon:	1		

Covers

Conifer: 10 24
Hardwood: 0 0
Total Tree: 10 24
Shrub: 2 14
Herb: 2 3

Tree Height: 5-10m
Tree dbh: T4
Exotics: 1
Juniper Expansion: 0.2-1%
Isolated_Tree: NO

Linework OK: ☐

More than one veg type: ☐

Veg change since imagery: ☐

Scores at Expected Level

5
1
1
1

Reason for Score
A

fuzzy
Alliance
Group
Expected

Reviewers Notes:

Delineation Notes
good

CoverNotes:
review

AttributeNotes:
review

Survey Plants

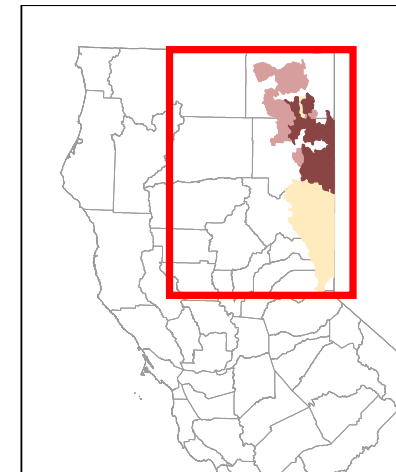
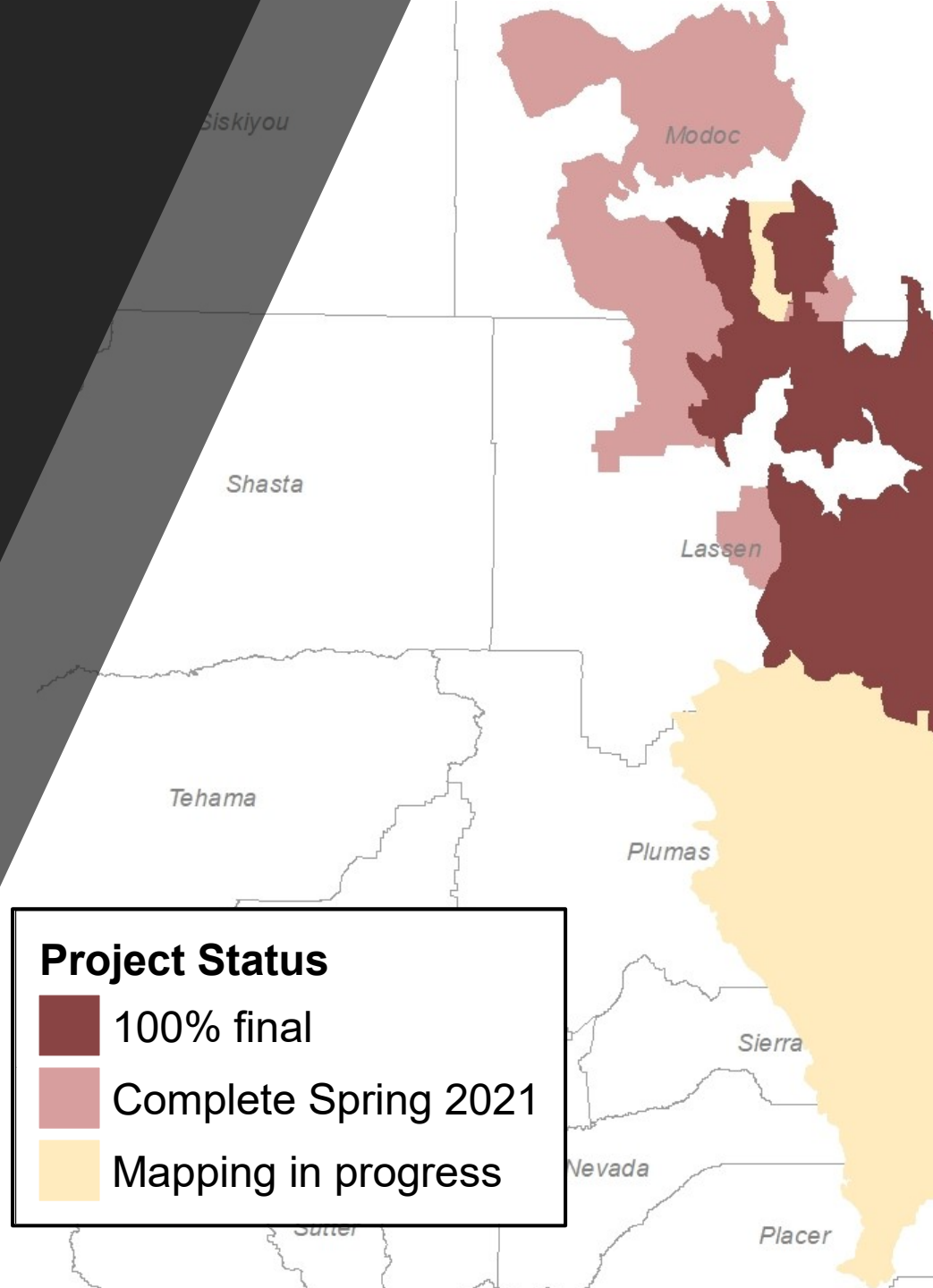
Waypoint ID	Stratum	CodeSpecies	Species Name	% Cov	Collection	Notes	txtCurrPlan
MLVB051804922	Tree	JUOC	Juniperus occidentalis Hook.	10			JUOC
MLVB051804922	Herb	BRTE	Bromus tectorum L.	3			BRTE
MLVB051804922	Shrub	ARTR2	Artemisia tridentata Nutt.	0.2			ARTR2
MLVB051804922	Herb	FEID	Festuca idahoensis Elmer	1			FEID
MLVB051804922	Shrub	PERA4	Peraphyllum ramosissimum Nutt.	1			PERA4
MLVB051804922	Shrub	PUTR2	Purshia tridentata (Pursh) DC.	0.2			PUTR2
MLVB051804922	Herb	ELEL5	Elymus elymoides (Raf.) Swezey	0.2			ELEL5
MLVB051804922	Herb	ELSP3	Elymus spicatus (Pursh) Gould	0.2			PSSPS
MLVB051804922	Herb	CRMU	Crocidium multicaule Hook.	0.2			CRMU
MLVB051804922	Herb	ALDE	Alyssum desertorum Stapf	0.2			ALDE
MLVB051804922	Herb	PLMA4	Plantago macrocarpa Torr. & A. Gray	0.2			PLMA4



Report

<https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=183030>

status



Where to
find the data

<https://apps.wildlife.ca.gov/bios/>

CALIFORNIA DEPARTMENT OF
FISH and WILDLIFE BIOS

Basemaps Layers

Active Layer: Vegetation - Modoc Plateau - Shinn, Likely, and Snowstorm Mountains - 2020 [ds2877]

BIOS Layers

Remove All BIOS Layers

- + ☒ Vegetation Survey Points - CDFW [ds1020]
- + ☒ Vegetation - Modoc Plateau Applegate areas - 2016 [ds2858]
- + ☒ Vegetation - Modoc Plateau - Shinn, Likely, and Snowstorm Mountains - 2020 [ds2877]

Reference Layers

Remove All Highlights

▼ Geolocation References >

- + ☐ Cities
- ☒ Counties
-
- + ☐ Ecoregion Sections
- + ☐ WBD HUC8 Watersheds
- + ☐ 24K Quads
- + ☐ 24K Quads (New)
- + ☐ Zip Codes

Add Data: BIOS ▼ vegetation

Identify Features ▼ Advanced Tools ▼