Hungry Valley SVRA

Vegetation Mapping Report 2023

California State Parks





Credits:

Melissa Patten, Natural Resources Division, California State Parks fieldwork, data analysis, report Leah Gardner, Natural Resources Division, California State Parks fieldwork, data analysis, report Jessica Vannatta, Arthur Heredia, Luis DeVera, Great Basin District, California State Parks fieldwork Brian Kreb, Chico State Geographic Information Center fieldwork, data analysis, vegetation key, linework

Table of Contents

Link to GIS data files	2
Introduction	2
Goals and Purpose	2
Summary of Vegetation Mapping Effort	3
Description of Hungry Valley SVRA	3
Methods	3
Fieldwork	3
Data interpretation and linework	3
Vegetation Types and Descriptions	4
Vegetation Community Descriptions	5
Vegetation Key	12
References	18
Link to GIS data files	18
Appendices	19
Appendix A: Map Figures	19
Appendix B: Field datasheets	26
Appendix C: Plant species list	65
Appendix D: Reconnaissance protocol and field form	74

Link to GIS data files Finescale Vegetation Mapping at the SVRAs (arcgis.com)

Introduction

Goals and Purpose

This finescale vegetation map for Hungry Valley SVRA was developed by California State Park staff in 2021-2023. Its development was prompted by the passage of Senate Bill 249, in which California Department of Parks and Recreation's Off-Highway Motor Vehicle Recreation Division (OHMVRD) was charged with meeting new legislative mandates to ensure resources compliance within all State Vehicular Recreation Areas (SVRAs). These mandates require (among other things) that OHMVRD compile an inventory of native plant communities within each SVRA [PRC 5090.35 (c)(1)]. To meet this requirement, OHMVRD has consulted the California Department of Fish and Wildlife's Vegetation Classification and Mapping Program (VegCAMP) to source finescale vegetation maps that cover the SVRA footprint, or, if not available, used the VegCAMP methods to develop a new finescale vegetation map.

The finescale vegetation map and associated data is intended to provide an inventory of native plant communities, inform the park's natural resource management planning including the Wildlife Habitat Protection Plan (WHPP), and establish a baseline for measuring future vegetation change.

Summary of Vegetation Mapping Effort

Spring 2021	Conduct field surveys to sample vegetation types
Fall 2022	Preliminary data analysis
Spring 2022	Conduct field surveys to sample vegetation types
Fall 2022	Data analysis and linework to produce a draft map
Spring 2023	Field check of the draft map
Summer 2023	Finalize map

Description of Hungry Valley SVRA

Hungry Valley SVRA is a 19,800 acre park within the Transverse Mountain Ranges, just south of Tejon Pass and the town of Gorman. The park is surrounded by National Forest land and by Tejon Ranch. Before becoming a SVRA in 1980, the park had a history of homesteading, mining, and unofficial OHV use. The climate is semiarid mediterranean, with hot dry summers and winters cold enough for some snowfall. There a few ephemeral streams, a small stream in the southern portion of the park with summer base flow, and a small perennial spring on the western edge of the park.

Methods

Fieldwork

Field surveys were conducted on April 5-8, 2021 by State Park staff, using VegCAMP's standard methods for Relevé, Rapid Assessment, and Reconnaissance samples (Appendix D, CDFW a, CDFW-CNPS). Fifteen formal samples were taken, in addition to many notes and photo points throughout the park. A second set of nineteen formal surveys, plus notes and photo points were taken on April 11-15, 2022 by State Park staff. Additional informal surveys were taken on May 5th 2022 with both state park staff and Chico State Geographic Information Center staff. Lastly, a map check was done by State Park staff on May 1-4, 2023, where 57 polygons that were not confidently identified during the linework process were visited and assessed for vegetation type.

Data interpretation and linework

Hungry Valley SVRA is not covered by any previous CDFW VegCAMP mapping or vegetation classification projects. Additionally, it is located where multiple eco-regions meet, resulting in a unique mixture of plant species and communities that are not yet classified in the National Vegetation Classification System or the Manual of California Vegetation. Existing vegetation classifications from VegCAMP projects in the Mojave Desert (Menke et al., 2013), the Tehachapi Mountains (Klein and Keeler-Wolf, 2014), and the Southern Sierra Nevada Foothills (Reyes et al., 2022), as well as the alliance descriptions in the Manual of California Vegetation Online (California Native Plant Society) were referenced when classifying vegetation for the park, and CDFW VegCAMP staff were consulted for advice with types that were difficult to fit. Some provisional types were named for the purposes of this project. It is expected that in the future, new classifications will be developed for the region and some of the types here may change to reflect a more appropriate name. See the vegetation key developed for the park below.

Linework followed the mapping standards found in the "Survey of California Vegetation Classification and Mapping Standards" (CDFW b) as much as possible. The minimum mapping unit was 1 acre, and ¼ acre for wetland or special types. Polygons were divided based on a change in cover class according to Braun-Blanquet categories (<1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, >75%), with a 5-acre minimum mapping unit break for overstory vegetation, and a 10-acre minimum mapping unit break for understory vegetation. Base imagery was NAIP 2020.

Vegetation Types and Descriptions

Map Code	NVCS Name	Common name (* = Sensitive)		Acres
Tree veg	etation types			
1	Pinus monophylla Alliance	Singleleaf pinyon woodland		671
2	Juniperus californica Alliance	California juniper woodland		617
3	Quercus lobata Alliance	Valley oak woodland	*	27
4	Populus fremontii - Fraxinus velutina - Salix gooddingii Alliance	Fremont cottonwood woodland	*	4
5	Populus fremontii - Salix lucida ssp. lasiandra Association	Fremont cottonwood – red willow woodland	*	19
6	Salix laevigata Association	Red willow woodland	*	26
Shrub ve	getation types			
7	Salix exigua Alliance	Sandbar willow thickets		5
8	Salix lasiolepis Alliance	Arroyo willow thickets		4
9	Adenostoma fasciculatum Alliance	Chamise chaparral		311
10	Arctostaphylos glauca Alliance	Bigberry manzanita chaparral		60
11	Quercus john-tuckeri Alliance	Tucker oak chaparral		942
12	Quercus john-tuckeri / Juniperus californica / Ericameria linearifolia Association	Tucker oak/California juniper/Interior goldenbush chaparral	*	3,491
13	Quercus john-tuckeri / Pinus monophylla	Tucker oak/Singleleaf pinyon	*	1,335

 Table 1. Vegetation Community Types in Hungry Valley SVRA, Surveyed 2021-2023.

335 – Pinus sabiniana Provisional chaparral (Provisional) Association 14 Lotus scoparius - Lupinus albifrons -Deerweed-silver lupine-yerba 115 Eriodictyon spp. Alliance santa scrub Ericameria linearifolia - Cleome isomeris Interior goldenbush - bladderpod 178 15 Alliance scrub

	16	Central and South Coastal Californian Coastal Sage Scrub Group	Central and South Coastal Californian Coastal Sage Scrub Group	1,407
	17	Eriogonum fasciculatum Alliance	California buckwheat scrub	971
	18	Eriogonum fasciculatum – Hesperoyucca whipplei Association	California buckwheat - chaparral yucca scrub	1,913
	19	Hesperoyucca whipplei Provisional Alliance	Chaparral yucca scrub (Provisional)	* 34
	20	Salvia mellifera Alliance	Black sage scrub	606
	21	Lepidospartum squamatum Shrubland Alliance	Scale broom scrub	* 106
	22	Encelia (actonii, virginensis) - Viguiera reticulata Shrubland Alliance	Brittle brush scrub	* 10
	23	Ericameria cooperi Provisional Alliance	Cooper's goldenbush scrub (Provisional)	653
	24	Ephedra viridis Alliance	Mormon tea scrub	104
	25	Ericameria nauseosa Alliance	Rubber rabbitbrush scrub	2,176
	26	Artemisia tridentata Alliance	Big sagebrush	300
	27	Artemisia tridentata – Ericameria nauseosa Association	Big sagebrush - rubber rabbitbrush scrub	ı 437
	28	Ceanothus greggii - Fremontodendron californicum Shrubland Alliance	Ceanothus- flannelbush chaparral	* 6
	29	Intermontane Deep or Well-drained Soil Scrub Group	Intermontane Deep or Well- drained Soil Scrub Group	11
He	rbaced	ous vegetation types		
	30	Mediterranean California Naturalized Annual and Perennial Grassland Group	Mediterranean California Naturalized Annual and Perennial Grassland Group	100
	31	California Annual Forb/Grass Vegetation Group	California Annual Forb/Grass Vegetation Group	2,099
	32	Eschscholzia californica Association	California poppy fields	702
	33	Arid West Freshwater Emergent Marsh Group	Arid West Freshwater Emergent Marsh Group	6
	34	Californian Warm Temperate Marsh/Seep Group	Californian Warm Temperate Marsh/Seep Group	3
	35	Naturalized Warm-Temperate Riparian and Wetland Group	Naturalized Warm-Temperate Riparian and Wetland Group	9
	36	Cliff, Scree, Rock outcrop	Cliff, Scree, Rock outcrop	34
	37	Urban	Urban	150
	38	Water	Water	1

Vegetation Community Descriptions

Woodland Vegetation Types

Oak Woodland

<u>Valley Oak (Quercus lobata)</u> Woodland Alliance: Valley oak (Quercus lobata) is a distinctive tree <30 meters with tall trunks and deciduous lobed leaves. Individual valley oaks exist within Hungry Valley SVRA, including small individuals on the edge of the dry lakebed in the Condor Mesa Area. Large valley oaks also grow within Hungry Valley SVRA in an open woodland in the southeastern portion of the park near the South Entrance and within the Oak Woodland Natural Preserve. A wide variety of shrubs and herbs occur in the understory.

Conifer Woodland

<u>Pinyon Pine (Pinus monophylla) Alliance:</u> The pinyon woodland within Hungry Valley SVRA is commonly composed of three dominant species: single leaf pinyon (*Pinus monophylla*), California juniper (Juniperus californica), and Tucker oak (*Quercus john-tuckeri*). The pinyon pines are dominant and diagnostic in the overstory of this community even though their presence may be sparse (sometimes having <5% cover), and they may grow as tall as 15 meters. Other species that co-exist in the shrub layer include big sagebrush (Artemisia tridentata), big berry manzanita (Arctostaphylos glauca), mountain mahogany (*Cercocarpus betuloides*), thick-leaved yerba santa (*Eriodictyon crassifolium*), and rubber rabbitbrush (*Ericameria nauseosa*). This vegetation type grows predominantly on north-facing slopes throughout Hungry Valley SVRA.

<u>California Juniper (Juniperus californica) Alliance:</u> California juniper (*Juniperus californica*) is a small tree that generally grows less than 5 meters tall. Widespread within Hungry Valley SVRA in a variety of habitats, in some areas stands form a near monoculture while in other areas it is mixed with a variety of other species. When co-dominant with pinyon pine or Tucker oak, California juniper must have >60% cover to be classified as the Juniper Alliance. In some cases, the various combinations of species have been described as different associations listed below and in the shrubland classifications. The shrub layer can be open to intermittent, and the herb layer is usually sparse.

<u>California Juniper/California Buckwheat (Juniperus californica/Eriogonum fasiculatum) Provisional</u> <u>Association:</u> This vegetation type is widespread within Hungry Valley SVRA, creating cover of open, low woodland that supports the growth of shrubs between the junipers. Sagebrush (*Artemisia tridentata*) and goldenbush (*Ericameria spp.*) may also be mixed with California buckwheat (*Eriogonum fasciculatum*).

Riparian Woodland and Shrubland Types

Fremont Cottonwood Woodlands (Populus fremontii - Fraxinus velutina - Salix gooddingii Alliance; and Populus fremontii - Salix lucida ssp. lasiandra Association): Fremont cottonwoods (*Populus fremontii*) and willows (*Salix sp.*) are winter-deciduous trees that are indicators of wetland habitat, where the tree and shrub vegetation receives moisture from a high water table and groundwater. Fremont cottonwoods grow to heights of < 25 m, forming a continuous to open upper canopy. Within Hungry Valley SVRA, Fremont cottonwoods are limited to a few small drainages and ephemeral streams. In these stands, Fremont cottonwood may have low absolute cover (as low as 5%) and willow species may be co-dominant with equal or higher cover.

<u>Willow (Sandbar, Red, Black, Arroyo Willow - Salix exigua, S. laevigata, S. gooddingii, S. lasiolepis)</u> <u>Alliances:</u> Four species of willow can be found within the park, typically in wetlands, riparian zones, or seasonally moist basins. They may be in pure or mixed stands or in association with Fremont cottonwood and can form shrubby willow thickets or attain treelike stature in the upper canopy. Stands dominated by a single species in the tree canopy are classified as that species type, i.e., Red willow (*Salix laevigata*) Alliance.

<u>Sandbar Willow (Salix exigua)</u> Shrubland Alliance: Sandbar willow is a shrub-sized, narrow-leaved willow. It has a general appearance similar to mulefat (*Baccharis salicifolia*), but with different floral features. Within Hungry Valley SVRA, it is found mainly in the northern portion of the Condor Mesa Area in areas of low, flat topography.

Chaparral Vegetation Types

<u>Tucker Oak (Quercus john-tuckeri) Alliance:</u> (Note: Per the classification rules in the MCV, Tucker oak is considered a shrub rather than a tree.) Tucker oak is a shrub form of oak, with individuals growing up to 6 meters tall. It generally is an evergreen except during periods of drought, when it may lose some of its leaves. This plant community has Quercus john-tuckeri at > 50% relative cover in the shrub canopy, which can be open to continuous. It is widely distributed throughout the central portion of Hungry Valley SVRA, with large stands along the western boundary.

Tucker Oak/California Juniper/Interior Goldenbush (*Quercus john-tuckeri/Juniperus* californica/Ericameria linearifolia) Association: Tucker oak and California juniper often are found together in Hungry Valley SVRA in locations where conditions are not quite moist enough for single-leaf pinyon pine, especially along the lower slopes of ridges and hills and around the outer portions of valley bottom lands. In some locations, this Association forms a closed canopy of vegetation, but in others, it is somewhat open, with individual shrubs standing apart from one another.

<u>Tucker Oak/Singleleaf Pinyon (*Quercus john-tuckeri/Pinus monophyla*) Provisional Association: Pinyon pine is present throughout, but with lower cover (sometimes <5% absolute cover) than the Tucker oak.</u>

<u>Chamise (Adenostoma fasciculatum) Chaparral Alliance:</u> Chamise (Adenostoma fasciculatum) has at least 50% relative cover in the shrub canopy, with an intermittent to continuous canopy up to 4 m tall. In Hungry Valley SVRA, chamise mainly occurs in the southern portion on south-facing slopes, especially east of Freeman Canyon and Hungry Valley Road, southwest of Mystic Canyon, as well as along the western boundary, west of Maxey Ranch Road. In some locations, it may form nearly pure stands, but in many areas, it is mixed with other shrubs, especially California buckwheat.

<u>Big Berry Manzanita (Arctostaphylos glauca)</u> Chaparral Alliance: Big berry manzanita (Arctostaphylos glauca) is a long-lived, evergreen, sclerophyllous shrub that grows up to 6 m. They do not sprout after being top killed from fire. For this Alliance, Arctostaphylos glauca is dominant or co-dominant in the shrub canopy, typically on mid to upper slopes of moderate to high elevations. Chamise (Adenostoma fasciculatum) is a common co-dominant shrub along with black sage (Salvia mellifera) and chapparal yucca (Hesperoyucca whipplei).

<u>Ceanothus – Flannelbush (Ceanothus greggii- Fremontedendron californicum) Shrubland Alliance:</u> Desert ceanothus (*Ceanothus greggii*) has >30% cover in the shrub canopy with flannelbush (*Fremontedendron californicum*) and a diverse mix of other shrubs. Both C. greggii and F. californicum are components of desert chaparral vegetation that inter-relate with other desert scrub species and pinyon-juniper woodland in post-burn settings. There is one known small stand of this alliance in the northern part of the park.

Other Shrubland Types

Rubber Rabbitbrush (*Ericameria nauseosa*) Shrubland Alliance: Rubber rabbitbrush (*Ericameria nauseosa*) is a fast-growing, early-seral shrub that establishes after disturbance. Rubber rabbitbrush has >50% relative cover in the shrub layer with heights < 3 m; the canopy is open to continuous. The herbaceous layer is sparse or grassy. Rubber rabbitbrush is a dominant species in various locations within Hungry Valley SVRA, particularly in areas that have been disturbed or burned in the past. Rubber rabbitbrush has slender stems with small flower clusters, but its density generates what appears to be a complete yellow flower cover in late summer-early fall. Other species of rabbitbrush and goldenbush (*Ericameria*) may also have a co-dominant role in the areas that are classified as this vegetation community within Hungry Valley SVRA.

<u>Big Sagebrush (Artemisia tridentata) Alliance:</u> Artemisia tridentata is dominant in the shrub canopy or may be co-dominant with interior goldenbush or California buckwheat. Shrub height is typically < 2 m and the canopy may be open to continuous. This Alliance occurs in a variety of habitats where soils are sandy to loamy, well drained, and deep. The herbaceous layer is sparse to intermittent and grassy.

<u>Big Sagebrush - Rubber Rabbitbrush (Artemisia tridentata- Ericameria nauseosa) Association:</u> Along with the big sagebrush, rubber rabbitbrush (*Ericameria nauseosa*) is one of the more widespread shrubs within Hungry Valley SVRA. This combination of big sagebrush and rubber rabbitbrush shrub vegetation is quite prevalent in Hungry Valley SVRA, especially occurring in the open valleys on the north, west, and southwest sides.

<u>California Buckwheat (Eriogonum fasciculatum) Alliance:</u> California buckwheat (Eriogonum fasciculatum) is one of the most common shrubs in central and southern California. It is a member of stable vegetation communities, including those that exist in valley bottoms and slopes, where it is the dominant species. It also is able to rapidly colonize areas that have been burned or subjected to mechanical removal and disturbance of soils. Because of its ability to colonize disturbed areas, it often is the dominant species on slopes that have open soil and rock from unstable geology. Within Hungry Valley SVRA, California buckwheat is found in various locations with big sagebrush on the somewhat drier slopes and areas recovering from previous disturbances, such as cattle and sheep grazing and cultivation that occurred before the land was acquired by the park.

<u>Chaparral Yucca (Hesperoyucca whipplei)</u> Provisional Alliance: Chaparral yucca (Hesperoyucca whipplei) occurs in a wide range of habitats within Hungry Valley SVRA, but the greatest concentrations appear in areas on the upper portion of the gently sloping valleys, below the juniper and pinyon habitats. The chaparral yucca within Hungry Valley SVRA represents atypically high concentrations of large specimens. Each chaparral yucca flowers only once - typically between April -June, after which the entire plant dies. Before flowering, a plant may produce smaller plants ("pups") around the base. Thus, the dead stalk of the original plant may leave behind one or more smaller plants, genetically identical to the original.

California Buckwheat–Chaparral Yucca (*Eriogonum fasciculatum – Hesperoyucca whipplei*) <u>Association:</u> Within Hungry Valley SVRA, particularly in the valleys on the southwestern portion, big sagebrush is present with California buckwheat and chaparral yucca (*Hesperoyucca whipplei*).

<u>Scale Broom (Lepidospartum squamatum) – Shrubland Alliance:</u> Scale broom (Lepidospartum squamatum) dominates or characterizes open stands with a variety of native and non-native herbs in the understory. Stands are concentrated along washes – usually larger washes with regular flooding where the substrate texture is coarse sand to small cobbles with gravel.

<u>Black Sage (Salvia mellifera) Alliance:</u> Black sage (Salvia mellifera) is dominant or co-dominant in the shrub canopy < 2 m; the canopy is continuous or intermittent. The herbaceous layer is variable; grasses and herbs are seasonal. Common on dry slopes with shallow soils. Twigs and leaves are glandular and highly aromatic. They are drought tolerant by leaf curling and yellowing rather than through leaf drop but are still considered to have a suite of drought-deciduous characteristics. Winter- and spring-blooming flowers are a rich source of nectar for native and introduced bees.

Interior Goldenbush – Bladderpod (*Ericameria linearifolia – Cleome isomeris*) Shrubland Alliance: Interior goldenbush and bladderpod are co-dominant in the shrub layer. Interior goldenbush (*Ericameria linearifolia*) and bladderpod (*Cleome isomeris aka Cleomella arborea*) are widespread species of inland central and southern California. The former species typically blooms in spring and summer and fruits in summer and fall. The latter can bloom and fruit year-round when moisture is available. These two species are common in the upper Mojave Desert and may become abundant following disturbances, including fire, flooding, and grazing.

<u>Cooper's Goldenbush (Ericameria cooperi) Provisional Alliance:</u> Cooper's goldenbush (Ericameria cooperi) is evenly distributed and widespread across the park's landscape. This type is provisional and is based on E. cooperi having a significant presence (generally >40% relative cover) in a stand. Stands show evidence of recent disturbance (typically fire) and are usually adjacent to stands with larger and longer-lived shrubs that belong to other Alliances.

Encelia (Encelia actoni) Shrubland Alliance: Acton's encelia (Encelia actonii) is dominant or codominant in the shrub canopy, with $\geq 2\%$ absolute cover and no other shrub species with greater or equal cover. In the borders of the Transverse and Tehachapi ranges, stands often occur on steep, south-facing slopes associated with Hesperoyucca whipplei or Eriogonum fasciculatum. Habitats include intermittently flooded arroyos, canyons, alluvial fans, road cuts, and other substrates with recent disturbance. Soils are alluvial with cobble and gravel. Encelias are short-lived, droughtdeciduous shrubs that grow to 1.5 m tall. Plants reproduce by seeds that are well adapted to wind and water dispersal and plants establish well from seed during wet years. They are early colonizers of sites such as washes, road cuts, recently cleared or burned land, or other disturbances. As a result, populations increase with disturbance and are replaced in areas lacking recurring disturbance.

<u>Mormon Tea (Ephreda viridis) Alliance</u> – Mormon Tea (Ephedra viridis) has >2% cover as the dominant or codominant shrub with a mix of other associated shrubs. In Hungry Valley, it is found on steep rocky slopes with chaparral yucca (Hesperoyucca whipplei).

Deerweed- Silver Lupine- Yerba Santa (Lotus scoparius, Lupinus albifrons, Eriodictyon spp.)

<u>Shrubland Alliance</u>: Disturbance-related shrubs (*Eriodictyon crassifolium, Lupinus spp., Lotus scoparius, or others*) dominate the shrub canopy with low to moderate cover. The shrubs reach < 3 m; the canopy is open to intermittent and can be two-tiered. The herbaceous layer is sparse to intermittent. Typical habitats for this Alliance include exposed lower to upper slopes and ridges, moderately steep open settings, and areas with recent disturbance, such as through clearing, fire, or intermittent flooding.

Deerweed (*Lotus scoparius* aka *Acmispon glaber*) is a short-lived shrub that can reach 20 years of age. Bush lupine (*Lupinus albifrons*) is a shrubby lupine with silvery leaves. The flowers are loosely whorled, and the bi-colored purple and white flowers are large and showy. They are relatively short-lived and tend to colonize regularly disturbed, steep and unstable slopes and shifting sands. Both deerweed and bush lupine are nitrogen fixers.

Thick-leaved yerba santa (*Eriodictyon crassifolium*) is a much-branched, evergreen shrub that attains 3 m in height. Branches are tomentose, and the lanceolate leaves are entire to toothed, sparsely hairy to white-tomentose. Seeds collect near plants and form a seed bank; they germinate following disturbance such as fire, and plants die after 20 to 30 years.

Within Hungry Valley SVRA, this vegetation Alliance is expressed as stands dominated by either thick-leaved yerba santa or deerweed. Patches of vegetation dominated by thick-leaved yerba santa are fairly common in the park. Deerweed tends to occur on ridges with thin soils.

Herbaceous Vegetation Types

<u>Arid West Freshwater Emergent Marsh and Warm Temperate Marsh/Seep Groups</u>: Marsh vegetation types are found in permanently wet soils or standing water. Vegetation is dominated by emergent perennial herbs such as rushes (*Juncus spp.*), tules (*Schoenoplectus acutus*), and cattails (*Typha spp.*). There are multiple Alliances and Associations within these groups, and plant assemblages vary annually.

California Annual Forb/Grass Vegetation and Mediterranean California Naturalized Annual and <u>Perennial Grassland Groups:</u> Hungry Valley SVRA supports a large number of grassland species, both native and non-native. Large expanses of grassland comprise the Native Grasslands Management Area and smaller grassland areas are scattered throughout the park. Some stands are strongly dominated by annual non-natives and lack evenly distributed, diagnostic native plants. Other stands are dominated or characterized by annual and perennial grasses and forbs with native herbs being characteristic and evenly distributed across the herbaceous layer, though nonnative forbs and grasses may be dominant.

Nonnative grass species include wild oat (*Avena fatua*), slender wild oats (*Avena barbata*), ripgut brome (*Bromus diandrus*), red brome (*Bromus rubens*), soft chess (*Bromus hordeaceous*), and cheat grass (*Bromus tectorum*). Native grass species include creeping wild rye (*Elymus triticoides*), slender wheatgrass (*Elymus trachycaulus*), nodding needlegrass (*Stipa cernua*), purple needlegrass (*Stipa pulchra*), pine bluegrass (*Poa secunda*), desert needlegrass (Stipa speciosa), and Indian rice grass (*Stipa hymenoides*).

Native herbaceous dicots or forbs include California poppy (*Eschscholzia californica*), desert dandelion (*Malacothrix glabrata*), spider lupine (*Lupinus benthamii*), miniature lupine (*Lupinus*

bicolor), baby blue eyes (*Nemophila menziesii*), phacelias (*Phacelia spp*.), fiddeneck (*Amsinckia spp*.), purple owl's clover (*Castilleja exserta*), and many others. Deltoid balsam root (*Balsamorhiza deltoidea*) is a large-flowered herbaceous perennial member of the sunflower family that grows on north-facing grassland slopes within Hungry Valley SVRA near the southern limit of its range, extending northward into Oregon.

The dominant mix of species varies from year to year, depending on rainfall and germination factors. In some years, California poppies may cover extensive areas hundreds of acres in size, visible from long distances. The desert dandelions also create large patches of bright yellow that can be viewed from distant vantage points. All of these native forbs are mixed with native and non-native grasses. However, because the boundaries and mix of the patches of species are highly variable, it is not possible to map them all at the Alliance or Association level using standard mapping methods such as aerial image interpretation, with the exception of the California poppy Alliance.

<u>California poppy (Eschscholzia californica)</u> Association: California poppy (Eschscholzia californica) is seasonally abundant along with many other native and non-native forbs and grasses such as purple owl's clover (*Castillja exserta*), miniature lupine (*Lupinus bicolor*), fiddlenecks, (*Amsinckia sp.*), phacelia (*Phacelia spp.*), brome grasses (*Bromus spp.*), wild oats (*Avena spp.*), etc. Our state flower contributes significantly to the iconic vision of the state's wildflower displays and "superblooms". However, these stands can shift radically year-to-year in species composition depending primarily on the amount and timing of precipitation.

Vegetation Key

Hierarchical Field and Mapping Key to Hungry Valley SVRA January 2023

This key is developed by Chico State Geographic Information Center for Hungry Valley SVRA by pulling together the overlapping vegetation community concepts found in the Tehachapi (Klein and Keeler-Wolf, 2014), DRECP (Menke et al., 2013), and Southern Sierra Nevada Foothills (Reyes et al., 2022) mapping projects.

1. Vegetation dominated or characterized by Juniperus californica or Pinus sabiniana.

Californian Evergreen Coniferous Forest and Woodland Group

1a. Juniperus californica is evenly distributed and characterizes the tree or shrub canopy with >4% absolute cover. Oaks are typically absent or much lower in cover than J. californica in the overstory. Sites tend to be rocky and/or sandy. Juniperus californica dominates in an open tree overstory, sometimes with understory shrubs meeting or exceeding Juniperus in cover. If co-occurring with Pinus monophylla or Quercus johntuckeri, J. californica must have >60% relative cover to key to the juniper alliance (i.e., if J. californica is co-dominant with Pinus monophylla or Quercus john-tuckeri, key to one of the latter two alliances, respectively). Cercocarpus montanus and/or Hesperyucca whipplei are characteristically present and may be co-dominant. Artemisia tridentata, Ericameria spp., Eriogonum fasciculatum, and/or Purshia tridentata may be present.

Juniperus californica Alliance

Juniperus californica / Eriogonum fasciculatum Provisional Association

2. *Pinus monophylla* is the dominant tree or is co-dominant (sometimes having <5% absolute cover) with *Quercus chrysolepis*, *Q. john-tuckeri* or *Juniperus californica* in open woodlands. Understory shrubs may include *Artemisia tridentata*, *Eriogonum fasciculatum*, and *Ephedra* spp.

Western Great Basin Montane Conifer Woodland Group

Pinus monophylla – (Juniperus osteosperma) Alliance Pinus monophylla – Juniperus californica / Artemisia tridentata – Coleogyne ramosissima Association Pinus monophylla / Quercus john-tuckeri Provisional Association

- 3. Riparian vegetation dominated by *Platanus*, *Populus*, or *Salix laevigata* in the tree overstory. **Southwestern North American Riparian Evergreen and Deciduous Woodland Group**
 - 3a. *Quercus lobata* is the dominant tree or is co-dominant with *Quercus wislizeni* in upland settings.

If *Q. lobata* stands are found in riparian settings, intermixing with *Salix* spp. or other riparian taxa.

Quercus lobata Alliance

Quercus lobata / grass Association

Quercus lobata – Quercus wislizeni Association

3b. *Salix laevigata* > 50% relative cover in the tree canopy, or > 30% relative cover with other tree willows and often with *S. lasiolepis* in the sub-canopy (Evens and San 2005, Klein and Evens 2005).

Salix laevigata Alliance

3c. *Salix gooddingii* dominates in the tree canopy. *Salix exigua* is often present in the understory.

Salix gooddingii Alliance

4. Riparian corridors or intermittent watercourses dominated by *Baccharis*, *Celtis*, *Salix lasiolepis*, or *Sambucus*

Southwestern North American Riparian/Wash Scrub Group

4a. Salix exigua is characteristically present as a dominant or co-dominant shrub, usually with >5% absolute cover and >50% relative cover in the shrub layer. It forms an open to continuous canopy along riparian corridors. It often forms narrow strips along major creeks and rivers and along ditches and reservoir edges. Other willow species may be present as sub-dominants with low cover, and Baccharis salicifolia may occasionally be co-dominant.

Salix exigua Alliance

4b. *Salix lasiolepis* dominates the shrub overstory. If riparian tree species are present, they must be sub-dominant (generally 60% relative cover.

Salix lasiolepis Alliance Salix lasiolepis Association

5. Cercocarpus montanus dominates, often with an open shrub canopy and emergent Juniperus californica, Pinus monophylla, and/or Pinus sabiniana. Artemisia tridentata, Arctostaphylos viscida, and Eriogonum fasciculatum are some of the shrubs that may intermix.

Californian Mesic Chaparral Group

Cercocarpus montanus (betuloides) Alliance

Cercocarpus montanus (betuloides) / Juniperus californica Association Cercocarpus montanus (betuloides) – Eriogonum fasciculatum Association

6. Stands are dominated by drought-deciduous shrubs, though at times they can have characteristic (constant but not dominant) resprouting, deep-rooted, sclerophyllous shrubs. Stands include mixed coastal shrublands from central California south into Baja, Mexico. The most predominant shrubs include *Eriogonum fasciculatum*, *Eriogonum wrightii*, and *Hesperoyucca whipplei*. On recently disturbed sites, such as after fire, *Corethrogyne filaginifolia*, *Ericameria linearifolia*, *Gutierrezia californica*, *Isocoma acradenia*, Peritoma (*Isomeris*) arborea, and Lupinus albifrons can be dominant.

Central and South Coastal California Seral Scrub Group

6a. Ericameria linearifolia, Cleome isomeris, or Eastwoodia elegans are dominant or codominant in the shrub layer. Typically found on north-facing, steep slopes in the southern Sierra Nevada Foothills in the Tehachapi Mountains. Ericameria linearifolia, Cleome isomeris and/or Eastwoodia elegans > 30% relative cover in the shrub canopy (Buck-Diaz et al. 2011, Buck-Diaz and Evens 2012, VegCAMP and AIS 2013).

Ericameria linearifolia - Cleome isomeris Shrubland Alliance

6a1. Cleome isomeris is dominant in the shrub overstory. Found often on steep slopes and in washes

Cleome isomeris Provisional Association

- 6a2. *Ericameria linearifolia* is primarily dominant or co-dominant with other shrubs in the shrub overstory *Ericameria linearifolia* Association
- 6b. *Eriodictyon californicum, E. crassifolium, Lupinus* spp., *Lotus scoparius,* or other disturbance related shrubs dominate the shrub canopy with low to moderate cover. *Adenostoma fasciculatum* is typically absent.

Lotus scoparius – Lupinus albifrons – Eriodictyon spp. Shrubland Alliance

7. Stands are characterized by the presence of *Eriogonum fasciculatum*, *E. wrightii* or *Hesperoyucca whipplei*, without significant cover of the previous group of seral scrubs.

Central and South Coastal Californian Coastal Sage Scrub Group

7a. Eriogonum fasciculatum is typically ≥2% absolute cover or >50% relative cover in the shrub canopy, but read full description for exceptions. These stands tend to have substantially higher shrub cover and usually do not co-dominate with many species. In the desert hills and mountains >1000m (3000ft) elevation, Eriogonum fasciculatum co-occurs with many other semidesert shrubs; if Ambrosia dumosa, Artemisia tridentata, Ephedra viridis, Ericameria teretifolia, Purshia tridentata, or Ericameria linearifolia are equal or higher in cover, key stands to those alliances. Ambrosia salsola, Ericameria nauseosa or Hesperoyucca whipplei may have higher cover than E. fasciculatum and still be in the E. fasciculatum Alliance.

Eriogonum fasciculatum Alliance Eriogonum fasciculatum Association Eriogonum fasiculatum – Salvia melifera Eriogonum fasciculatum – Hesperoyucca whipplei Association

- 7b. *Hesperoyucca whipplei* is the sole dominant or may be co-dominant with semi-desert shrubs such as *Atriplex polycarpa* or *Ephedra* spp. *Eriogonum fasciculatum* is noticeably absent from these stands; if *E. fasciculatum* has a minor to significant presence, key to the *Eriogonum fasciculatum* Alliance. *Hesperoyucca whipplei* Provisional Alliance
- Ephedra californica. Lepidospartum squamatum, or Prunus fasciculata characterizes
- 8. Ephedra californica, Lepidospartum squamatum, or Prunus fasciculata characterizes the shrub overstory.

Mojavean Semi-desert Wash Scrub Group

8a. Lepidospartum squamatum dominates or characterizes open stands with a variety of native and non-native herbs in the understory, in either desert or cismontane settings. Stands are concentrated along washes - usually larger washes with regular flooding where the substrate texture is coarse sand to small cobbles to gravel. Lepidospartum squamatum > 1% cover in alluvial environments (Barbour and Wirka 1997, AECOM 2019).

Lepidospartum squamatum Alliance

 Artemisia tridentata is the dominant shrub or may be co-dominant with Ericameria nauseosa or Eriogonum fasciculatum. Stands with co-dominance of Prunus fasciculata or Ephedra viridis key to Prunus or Ephedra, respectively. Stands with >2% cover and even distribution of Juniperus californica or Yucca brevifolia (regardless of height) key to Juniperus or Yucca, respectively.

Inter-Mountain West Mesic Tall Sagebrush Shrubland and Steppe Group

Artemisia tridentata Alliance

Artemisia tridentata – Ericameria nauseosa Association

10. Vegetation dominated by taxa that are relatively small and/or short-lived plants that colonize uplands following natural or unnatural disturbance such as clearing or fire, including *Encelia*, *Ericameria*, or *Gutierrezia*.

Intermontane Seral Shrubland Group

10a. Encelia virginensis has ≥2% cover and no other shrub species with greater or equal cover. In the borders of the Transverse and Tehachapi ranges, stands often occur on steep, south-facing slopes associated with Hesperoyucca whipplei or Eriogonum fasciculatum. Stands may have relatively high cover of Achnatherum (Stipa) speciosum and Salazaria (Scutellaria) mexicana.

Encelia (actoni, virginensis) Alliance

Encelia virginensis Association

10b. Ericameria cooperi is evenly distributed and dominant across the landscape (stands may be too small to map). Stands show evidence of recent disturbance (typically fire) and are usually adjacent to stands with larger and longer-lived shrubs that are more easily keyed to Grayia spinosa, Ericameria teretifolia or Larrea tridentata – Ambrosia dumosa. This type is provisional based on *E. cooperi* having a significant presence (generally >40% relative cover) in a stand. This alliance is unusual and most stands with co-dominant *E. cooperi* can be better placed in the Ambrosia dumosa, Grayia spinosa, or Ambrosia salsola alliances. Stands with codominant *E. nauseosa* or *E. teretifolia* usually key to those alliances, respectively. *E. cooperi* is spring-flowering and a shorter-lived species that is more of a disturbance responder than Ericameria teretifolia.

Ericameria cooperi Provisional Alliance

10c. *Ericameria nauseosa* typically dominates the shrub overstory. If *E. nauseosa* is codominant with *Eriogonum fasciculatum*, key to the *E. fasciculatum* Alliance. If present, *Juniperus californica* has trace cover. Several subspecies are included in this type (e.g., *E. nauseosa* var. *mohavensis* in the cismontane or desert sides of the study area, or *E. nauseosa* var. *hololeuca* in some semi-riparian stands towards the eastern side).

Ericameria nauseosa Alliance

11. Stands with diagnostic species such as *Grayia*, *Ephedra nevadensis*, *E. viridis*, and *Lycium*. These vegetation types merge with the upper edge of the *Larrea tridentata – Ambrosia dumosa* belt and are usually seen on north-facing slopes at lower elevations.

Intermontane Deep or Well-drained Soil Scrub Group

- 11a. Ephedra viridis ≥2% cover as the dominant shrub or co-dominant with other shrubs such as Artemisia tridentata, Ericameria teretifolia, Grayia spinosa, Salazaria (Scutellaria) mexicana, Krascheninnikovia lanata, Ericameria cuneatus, or Eriogonum fasciculatum. Associated with steep talus or rock outcrops except at the highest elevations, when it can occur on more moderate slopes.
 Ephedra viridis Alliance
- 12. Adenostoma fasciculatum is dominant in the shrub canopy with Adenostoma sparsifolium, Arctostaphylos glandulosa, Arctostaphylos manzanita, Arctostaphylos viscida, Ceanothus spp., Diplacus aurantiacus, Eriodictyon californicum, Eriogonum fasciculatum, Hesperoyucca

whipplei, Heteromeles arbutifolia, Quercus berberidifolia, Quercus wislizeni, Salvia apiana, Salvia leucophylla, Salvia mellifera and Toxicodendron diversilobum. Emergent trees may be present at low cover.

Adenostoma fasciculatum > 50% relative cover in the shrub canopy (cf. Keeler-Wolf et al. 1998b); codominance of A. fasciculatum with the following species are classified in alliances of these other character species: Adenostoma sparsifolium, Arctostaphylos glauca, A. glandulosa, Ceanothus crassifolius, C. cuneatus, and C. greggii.

Californian xeric chaparral Group Adenostoma fasciculatum Alliance

13. *Quercus john-tuckeri* is dominant or co-dominant with *Juniperus californica* (*Q. john-tuckeri* is recognized as a shrub in the USNVC, while *J. californica* is recognized as a tree, but both species often share similar stature and height). In this mapping effort *Quercus john-tuckerii* was mapped as a tree. Pinus monophylla and/or *P. sabiniana* are often present with lower cover than *Quercus. Cercocarpus, Ephedra, Ericameria linearifolia, Eriogonum fasciculatum* and other shrubs may be found in the understory.

Western Mojave and Western Sonoran Desert Borderland Chaparral Group Quercus john-tuckeri Alliance Quercus john-tuckeri / Pinus monophylla – Pinus sabiniana Provisional Association Quercus john-tuckeri / Juniperus californica / Ericameria linearifolia Association

14. *Ceanothus greggii* dominates or co-dominates with *Adenostoma fasciculatum* in the shrub overstory.

Mogollan Rim Chaparral Group

14a. Ceanothus greggii var. perplexans, Ceanothus greggii var. vestitus and/or Fremontodendron californicum is dominant or co-dominant in the shrub canopy with Adenostoma fasciculatum, Adenostoma sparsifolium, Arctostaphylos glauca, Artemisia tridentata, Cercocarpus montanus, Dendromecon rigida, Ericameria nauseosa, Eriogonum fasciculatum, Fallugia paradoxa, Garrya veatchii, Hesperoyucca whipplei, Lotus scoparius, Prunus fasciculata, Prunus fremontii, Purshia glandulosa, Purshia stansburiana, Quercus berberidifolia, Quercus cornelius-mulleri, Quercus john tuckeri, Quercus palmeri, Quercus wislizeni, Rhus ovata, Salvia apiana and Salvia mellifer. Emergent trees may be present at low cover, including Juniperus californica or Pinus monophylla.

Ceanothus greggii > 30% relative cover in the shrub canopy with *Fremontodendron californicum* or other shrubs (Reyes et al. 2020a).

Both Adenostoma fasciculatum and *Ceanothus greggii* have between 30% and 60% relative cover in the shrub canopy (cf. Evens and San 2005, Gordon and White 1994).

Fremontodendron californicum > 50% relative cover in the shrub canopy (Reyes et al. 2020a).

Ceanothus greggii - Fremontodendron californicum Shrubland Alliance

15. *Xanthium* and/or Persicaria characterize stands, though a number of naturalized species, such as *Polypogon monspeliensis*, *Apium graveolens*, and *Veronica* spp. may be present with significant cover. Naturalized Warm-Temperate Riparian and Wetland Group

Arid West Freshwater Emergent Marsh Group Persicaria lapathifolia – Xanthium strumarium Provisional Alliance

16. Vegetation is dominated by or characterized by Carex densa, *Juncus arcticus*, *Leymus triticoides*, or *Mimulus guttatus*.

Californian Warm Temperate Marsh/Seep Group

17. Vegetation is dominated by tall emergent perennial herbs such as species of *Schoenoplectus* and *Typha* found in permanently wet soil or standing water.

Arid West Freshwater Emergent Marsh Group

17a. *Schoenoplectus acutus*, the tall, emergent tule, dominates where ponds and sluggish, permanently flowing water exist.

Schoenoplectus acutus Alliance

Schoenoplectus acutus Association

- 17b. A species of *Typha* dominates in the tall herb layer.
 - Typha (angustifolia, domingensis, latifolia) Alliance
- Vegetation characterized by native and non-native grasses and herbs adapted to Mediterranean climates. Shrubs, if present, are not >10% absolute cover and/or not evenly distributed across a stand.

California Annual and Perennial Grassland Macrogroup

18a. Stands are dominated or characterized by mostly annual grasses and forbs. Native herbs are characteristic and evenly distributed across the herbaceous layer, though non-native forbs and grasses may be dominant. Cover and composition vary year to year, but indicators are usually present in sufficient amounts to differentiate from non-native stands. Diagnostic species include *Amsinckia* spp., *Artemisia dracunculus*, *Eschscholzia* spp., *Holocarpha* spp., *Lasthenia* spp., *Phacelia* spp., *Plantago erecta* and *Vulpia microstachys*.

California Annual Forb/Grass Vegetation Group

- 18a1. Eschscholzia californica is seasonally dominant on upland slopes or flats with well-drained sandy to loamy soils. Amsinckia, Avena, Bromus, Castilleja exserta, Erodium cicutarium, Lupinus bicolor, Lupinus microcarpus, Uropappus lindleyi and a variety of other native and non-native forbs and grasses may be present. Eschscholzia (californica) Alliance
- 18b. Stands are strongly dominated by non-natives and lack evenly distributed, diagnostic native plants (usually <5% relative cover). Annual Avena, Bromus, Schismus, Brassica and other non-native herbaceous taxa are strongly dominant. Because very few surveys were collected in non-native stands for this project, most polygons will be mapped broadly at the Group Level.

Mediterranean California Naturalized Annual and Perennial Grassland Group

References

Link to GIS data files Finescale Vegetation Mapping at the SVRAs (arcgis.com)

- California Native Plant Society. A Manual of California Vegetation Online. Available at <u>https://vegetation.cnps.org/</u>. Accessed February 2021 August 2022.
- CDFW a. Combined Vegetation Rapid Assessment and Relevé Field Form. Available at <u>https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=18598&inline</u>
- CDFW b. Survey of California Vegetation Classification and Mapping Standards Available at https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=102342&inline

CDFW-CNPS. CDFW-CNPS Protocol for the Combined Vegetation Rapid Assessment and Relevé Field Form Available at: <u>https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=18599&inline</u>

- Klein, A., J. Crawford, J. Evens, T. Keeler-Wolf, and D. Hickson. 2007. Classification of the vegetation alliances and associations of the northern Sierra Nevada Foothills, California. Report prepared for California Department of Fish and Game. California Native Plant Society, Sacramento, CA. Available at https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=18232&inline
- Klein, A., T. Keeler-Wolf. 2014. Hierachical Field and Mapping Key to the Vegetation of the Proposed Tehachapi Pass High-Speed Rail Corridor. Available at <u>https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=101349&inline</u>
- Menke, J., E. Reyes, A. Glass, D. Johnson, and J. Reyes. 2013. 2013 California Vegetation Map in Support of the Desert Renewable Energy Conservation Plan. Final Report. Prepared for the California Department of Fish and Wildlife Renewable Energy Program and the California Energy Commission. Aerial Information Systems, Inc., Redlands, CA. Available at <u>https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=62826&inline</u>
- Reyes, E., A. Glass, J. Evens, J. Buck-Diaz, A. LaFever-Jackson, J. Ratchford, R. Boul, R. Yacoub, J. Menke, J. Fulton, and D. Johnson. 2022. Fine-Scale Vegetation Map and Accuracy Assessment of the Southern Sierra Nevada Foothills, California. Contract P1884008. Final Report. Prepared for the California Department of Fish and Wildlife. Aerial Information Systems, Inc., Redlands, CA. Available at https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=211115&inline

Appendices

Appendix A: Map Figures





- 30. Mediterranean California Naturalized Annual and



Figure 1. Vegetation communities in the 2015 Acquisition and Native Grasslands MUs



Figure 2. Vegetation communities in the Sterling Canyon, Oak Preserve, Open Riding Area, and Tatavium MUs



Figure 3. Vegetation communities in the EMW Acquisition



Figure 4. Vegetation communities in the South Oak Grove/Canada, Hungry Valley Facilities, Open Riding Area, and Hungry Valley Canyon Country MUs



Figure 5. Vegetation communities in the Hungry Valley Canyon Country, Quail Canyon, Native Grasslands, and Hungry Valley Facilities MUs



Figure 6. Vegetation communities in the Hungry Valley Canyon Country, and Native Grasslands MUs

Appendix B: Field datasheets

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Recorder: $\wedge \vee \varphi$ corder: $\wedge \vee \varphi$ aypoint ID: aypoint ID: D: $H \vee 002$ ocation Name: and Size: 1–5 >5 coposure, Actual °:	Other Surveyors: Other Surveyors: Other Surveyors: GPS Nam If Yes, ent If Yes or I Base / Pro UTMs: UTM Decimal degr Camera: NW NW NW NW NW NW NW NW NW NW	<pre>: LG, 3 veyors: L ne <u>MVP</u> ter: Bea Digitized, c ojected (cir ME MVP Phe SE SW SE SE SW SE S</pre>	Phone Tree Species	Projected? Dista Waypoint ither UTMs o UTM 0 2 8 / Steepnes	No / Yes nce (m): ID: r Decimal D N L LONC s, Actual ° few 9 Herb % cover	s / Base egrees : :	Date: 4-5 e / Digitized Inclinati GPS error: 1 2 9 - 0° (1-5) - 0° (1-5) - 0° (1-5) - 0° (1-5) - 0° (1-5)	- 2 Retu on (°): ft./ m./ PD(0074 View Rad > 5-25° Exotics (L,N	rn? PP ius > 25 4,H) % cover
Recorder: $M \lor \varphi$ aypoint ID: aypoint ID: D: $H \lor 002$ ocation Name: and Size: 1 -5 >5 cover: Actual °: eld Alliance name: G omments: $\land H \lor 002$ Cover: Conifer Harrata Species T $\lor M \land M \land 0 \land M$	Other Surveyors: Other Surveyors: Other Surveyors: GPS Nam If Yes, ent If Yes or I Base / Pro UTMs: UTM Decimal deg Camera: NW Ver CMS I O alk S I M dwood T % cove ID	<pre>veyors: L veyors: L ter: Bea Digitized, c ojected (cir ME VP Phe SE SW SE SE SW SE SW SE SW SE SW SE SW SE SU SE SU</pre>	Phone Tree Species	Shrub	No / Yes nce (m):	s / Base egrees :	Date: 4-5 e / Digitized Inclinati GPS error: 1 8 9 - 0° (1-5) - 0° (1-5)	- 21 Retu on (°): ft./ m./ PD(0 6 7 4 View Rad > 5-25° Exotics (L) ehylle	rn? PP PP 9P 9P > 25 4.H) % cover <)
Recorder: $\mathcal{N} \vee \mathcal{P}$ aypoint ID: aypoint ID: D: $\mathcal{H} \vee 002$ ocation Name: and Size: 1 -5 >5 coorder: \mathcal{A} eld Alliance name: \mathcal{G} comments: \mathcal{A} \mathcal{L} \mathcal{L} Cover: Conifer Har Species \mathcal{L}	Other Surveyors: Other Surveyors: Other Surveyors: GPS Nam If Yes, ent If Yes or I Base / Pro UTMs: UTM Decimal degr Camera: ^ NE NW Camera: ^ O alk S i O m dwood T % cove Cove	E LG S veyors: L ne <u>MVP</u> ter: Bea Digitized, c ojected (cir ME MVP Pho SE SW 106ata Stand. Stand. Gold Tree er Strata	Phone Tree Species Loni Cera Regen Tree Species Loni Cera Salix Sp	Projected? Dista Waypoint ither UTMs of UTME 0 2 8 / / / / / / / / / / / / /	No / Ye: nce (m):	s / Base egrees Strata	Date: $4-5$ Date: $4-5$ Digitized Inclinati GPS error: $1 \ 2 \ 9$ 0° (1-5) Norver $1 \ 2 \ 9$ Norver $1 \ 2 \ 9$ Norver $2 \ 9$ $2 \ 9$	- 21 Retu on (°): ft./ m./ PDC 0 - 6 - 7 - 4 View Rad > 5-25° Exotics (L) phylle caus	rn? PP 9 9 9 25 4,H) % cover <) <) <)
Recorder: $\mathcal{W} \mathcal{V}$ corder: $\mathcal{M} \mathcal{V} \mathcal{V}$ aypoint ID:	Other Surveyors: Other Surveyors: Other Surveyors: GPS Nam If Yes, ent If Yes or I Base / Pro UTMs: UTM Decimal degr Camera: NW Ver CMS I O alk S I O Model T Model S O alk S I O Model S O alk S I O Alk S I O	<pre>veyors: L ne <u>MVP</u> ter: Bea Digitized, c ojected (cir ME MVP Phe SE SW SE SU S</pre>	Regen Tree Species	Projected? Dista Waypoint ither UTMs o UTMI 0 2 8 / Steepnes fed a Shrub Shrub Shrub	No / Yes nce (m):	s / Base cegrees :-	Date: 4-5 Date: 4-5 Pinus Pinus Pinus Pinus Pinus Pinus Pinus Pinus Pinus Pinus	- 21 Retu on (°): ft./ m./ PD(0 - 6 - 7 + 4 View Rad > 5-25° Exotics (L,) Exotics (L,) Phylle eaus	rn? PP 9

RECON FIELD FORM (March 6, 2019, with slope/aspect)

26

Waypoint ID:	Other Su	irveyors	: LG. , Jessi,	AJ		Date: 4-5-21 R	eturn? 🗖
HV 003	GPS Na If Yes, er	me	Projecte Bearing (°): Dis	ed? No / Y stance (m)	(es / Ba	ase / Digitized Inclination (°):	
Location Name: * Just ontside park boundary	Base / Pr UTMs: UT	Digitize ojected ME	ed, enter: Base Waypoin (circle one) Record either UTMs UTM	nt ID: s or Decimal MN	Degrees	GPS error: ft./ m./ P.	DOP_19
00ps!	Decimal deg	rees: LA	134.759662	LONG		8.90903	32
Stand Size: <1 [-5]>5	Camera:	MVP	Photos: 🙌	-		View Ra	adius
Exposure, Actual °:	NE) NW	SE SV	V Flat Variable Steepne	ss, Actual	•:	0° (1-3° > 5-25°	> 25
Field Alliance name: Pin	us mon	o ph	jila			0	
Comments: Flatish s	op: 22	ently	hard. Mix of	e pil	res,	oaks, ju	iper,
	ASR + r	abbi	Abroch under	stary.	Sau	N too late is - side park	slighth
with so	0						
with Sc Cover: Conifer Hardwood	d Tota	l Tree	Regen Tree Shrub	Herb		Total Veg Exotics (L	.,M,H)
with 50 Cover: Conifer Hardwoo Ita Species	od Tota	al Tree	Regen Tree Shrub	Herb % cover	Strata	Total Veg Exotics (L Species	"M,H) % cover
with sc Cover: Conifer Hardwoo ta Species P. nonophylla	d Tota % cover	Strata	Regen Tree Shrub Species	Herb % cover	Strata 5	Total Veg Exotics (I Species H. Whipple.i	-,M,H) % cove
With Sc Cover: Conifer Hardwoo Ita Species P. nonophylla Querus. Sp	od Tota % cover	Strata	Regen Tree Shrub Species Juniper us spin	Herb % cover	Strata 5 5	Fotal Veg Exotics (I Species H. Unipple: i G. Fasc, vor pd.	-,M,H) % cover

Combined Vegetation Rapid Assessment and Relevé Field Form (Revised March 27, 2018)

For Office Use: Final database #: Final vegetation type: Alliance
I. LOCATIONAL/ENVIRONMENTAL DESCRIPTION
Database #: HV BOH Date: Name of recorder: Melisse Market AT T
4-7-21 Other surveyors:
The second UID: Location Name: Hussen Vallage
CDS some Audisford
For Relevé only: Bearing ^o , left axis at ID point of Long / Short side
UTME UTMN Zone: 11 NAD83 GPS error: ft/m/ PDOP
Decimal degrees: LAT 34.807635 LONG 1889379
GPS within stand? (Yes) / No If No, cite from GPS to stand: distance (m) bearing ° inclination °
and record: Base point ID Projected UTMs: UTME UTMN
Camera Name: McCl Second Cardinal photos at ID point:
Other photos:
Stand Size (acres): <1 (1.5)>5 Plot Area (mb): 100 / Plot Dimensions
Ernosure Actual () NE NW (F) SW FLA VI () Prot Dimensions X m (KA Radius / A m
Exposite Actual IVE IVW (SE) SW Flat Variable Steepness, Actual *: 0° (1-5°) >5-25° >25
Topography: Macro: top upper mid lower bottom Micro: onyes flat concave undulating
Geology code: Soil Texture code: (O LS Uplant or Wetland/Riparian (circle one)
% Surface cover: (Incl. outcrops) (>60cm diam) (25-60cm) (7.5-25cm) (2mm-7.5cm) (Incl sand, mud)
H20: O BA Stems: 2 Litter: Bedrock: O Boulder: O Stone: O Cobble: < Gravel: 80 Fines: 2 =100%
% Current year bioturbation Past bioturbation present? Yes / No 2 % Hoof punch (D)
Fire evidence: Yes / No (circle one) If yes, describe in Site history section, including date of fire, if known.
sile instory, stand age, comments: - Kabbitbrush, - er care shruby non - olly,
2013 againsition vently stoping flat area nearby may
be part of stands veg transed a fin stand, this is 115
year monitoring, Near Frazier High School. Park road
aljacent to stand,
Disturbance code / Intensity (L,M,H): 05/ L 15/ L / / Other" /
II. HABITAT DESCRIPTION
ITEE DBH : $\underline{11}$ (<1" dbh), $\underline{12}$ (1-6" dbh), $\underline{13}$ (6-11" dbh), $\underline{14}$ (11-24" dbh), $\underline{15}$ (>24" dbh), $\underline{16}$ multi-layered (T3 or T4 layer under T5, >60% cover)
Shrub: <u>S1</u> seedling (-3 yr. old), <u>S2</u> young (-1% dead), <u>S3</u> mdture 1-25% dead), <u>S4</u> decadent (>25% dead)
Herbaceous: H1 (12) plant ht.), H2 (>12" ht.)
Desert Riparian Tree/Shrub: 1 (<2ft. stem ht.), 2 (2-10ft. ht.), 3 (10-20ft. ht.), 4 (>20ft. ht.)
Desert Palm/Joshua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 (>6" diam.)
III. INTERPRETATION OF STAND
- Tehachup + DRCP.
Field-assessed vegetation Alliance name: Ericaneria new Seosa
Field-assessed Association name (optional):
Adjacent Alliances/direction: Trees adjacent - Pinyon / Serve bak
Field-assessed Association name (optional): Adjacent Alliances/direction: adjacent - pmym/s cmb bak
Field-assessed Association name (optional):A Adjacent Alliances/direction: _ True adjacent - Pinyon / Scrub oak Confidence in Alliance identification: L M H Explain: Not perfectly aligned in hey
Field-assessed Association name (optional):A Adjacent Alliances/direction: _ True adjacent - Progen/Scrub oak Confidence in Alliance identification: L M H Explain:A perfectly aligned in hey Phenology (E,P,L): Herb E Shrub E Tree / Other identification or mapping information:
Field-assessed Association name (optional): Adjacent Alliances/direction: _ True adjacent - Progen/Scrub back Confidence in Alliance identification: L D H Explain: Not perfectly aligned in hey Phenology (E,P,L): Herb E Shrub E Tree / Other identification or mapping information:

Combined Vegetation Rapid Assessment and Relevé Field Form (Revised March 27, 2018) SPECIES SHEET

Stratum categories: T=Tree, A = SApling, E = SEedling, S = Shrub, H= Herb, N=Non-vascular $%$ Cover Intervals for reference: r = tree, t = <1%, 1.5%, >15.25%, >25.50%, >50.75%, >75% Stratum Specie $%$ cover C S ξ cricameria nausceaosa S ξ cooperii S ξ cooperii <td< th=""><th><u>% Cov</u> <u>Height</u> H</th><th><u>rer</u> - Conifer tree / Hardwood tree: <u>Class</u> - Conifer tree / Hardwood tree: eight classes: 1=<1/2m, 2=1/2-1m, 3=1-2m, 4</th><th>/ / =2-5m, 5</th><th>Rege Rege =5-101</th><th>% nera nera m. (</th><th>% NonVasc cover: Total % Vasc Veg cover: ating Tree: Shrub: Herbaceous: ating Tree: Shrub: Herbaceous: 5=10-15m. 7=15.20m. 8=20.35m. 0=25.60m.</th></td<>	<u>% Cov</u> <u>Height</u> H	<u>rer</u> - Conifer tree / Hardwood tree: <u>Class</u> - Conifer tree / Hardwood tree: eight classes: 1=<1/2m, 2=1/2-1m, 3=1-2m, 4	/ / =2-5m, 5	Rege Rege =5-101	% nera nera m. (% NonVasc cover: Total % Vasc Veg cover: ating Tree: Shrub: Herbaceous: ating Tree: Shrub: Herbaceous: 5=10-15m. 7=15.20m. 8=20.35m. 0=25.60m.
Stratum Species $returne t = trac, t = <1\%, 1.5\%, >5.15\%, >5.25\%, >25.50\%, >50.75\%, >75\%$ Stratum Species $return conservation C Final species determination Stratum Species return conservation C = 1000 \text{ species} = 1000 \text{ species} = 1000 \text{ species} = 1000 \text{ species} = 10000 \text{ species} = 10000 \text{ species} = 100000000000000000000000000000000000$		Stratum categories: T=Tree, A =	SApling,	E = SE	Eedl	ing, $S = Shrub$, $H = Herb$, $N = Non-vascular$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Ştratum	Species	+ = <1%	over	%,	>5-15%, >15-25%, >25-50%, >50-75%, >75%
S = Cooperia 1 H = Agossis retrorsa 1 H = Agossis retrorsa 1 Cooperia 10 Crightman sp. + Crightman sp. + Crightman sp. + Crightman sp. + Cooperia sp. r Corethrog ne Eilaginfelta r Corethrog ne Corethrog ne Eilaginfelta r Corethrog ne Cor	5	45 icamper	1	7	-	This species determination
S & Liverstall S Senecio Elacidus 2 S Actenesia tridentata + H Agossis retrorsa + I hogappus Vindley: r Strodium ciasterium 15 Eriogonum sp. + Unka grave sp. + Unka grave sp. + Unka grave sp. r Cryptentra sp. r Cryptentra sp. r Phacelia tranictifalia r Phacelia tranictifalia r Raphenesoria 2 r Corethog ne filagi falsa r Raphenesoria 2 r	S	4. (moralizedosa		2		
Senecia Flacidus 2 Actencia tridentota 1 H Agoessis retrorsa 1 H Agoessis retrorsa 1 Kriogonum sp. 1 Eriogonum sp. 1 Waka. grand sp. 1 Cryptentra sp. r Cryptentra sp. r Corethrog ne filoginfalia r Raphanesoria 2 Raphanesoria 2	S	4				
S Actencial tridentate + H Agosesis retrorsa + I hogeppus indunyi r Erodium cianterium 15 Eriogonum sp + Eriogonum sp + Eriogonum sp + Unka. grove sp 1 Unka. grove sp 1 Cryptontra sp r C, circumelso sp r Phacelia taniculifatia r Phacelia sp r Corettrog ne filaginfatia r Raphmesoria 2 r 7 r	5	Service Charles	all	-+		
H Agressis retrotat t H Agressis retrotat t L angapus lindley; r Eriogonum so t Eriogonum so t Eriogonum so t Unka. grats sp. 1 Unka. grats sp. 1 Cryptontra sp. r Astrogalus sp. r Phacelia transctifalia r Phacelia sp. r Corethrag ne filaginfalia r Raphanestria 7 Corethrag ne filaginfalia r Corethrag ne filaginfalia	5	Action Flacians	1	4		
Ingravis retroisa r Ingravis retroisa r Ingravis retroisa r Eriogonum sp + Eriogonum sp + Eriogonum sp + Eriogonum sp + Unka. grove sp 1 Unka. grove sp 1 Cryptontra sp r Cryptontra sp r Cryptontra sp r Corethrag ne filaginalia r Raphanesoria ? Corethrag ne filaginalia r Raphanesoria ?	+	Accessia tridente	100 7			
Altorophics (Index): I for the formation of the f	1	li quesis retrorsa	r			
Eriogenum sp + Eriogenum sp + Unkn. growt sp 1 	4	Ending indey;		-	_	
Eriogonum sp. + Eriogonum sp. + Unka, gravs sp. 1 Cryptontra sp. r Cryptontra sp. r Astrogalus sp. r Phacelia tanictifalia r Phacelia sp. r Corethrag ne filaginalia r Raphanespria ? - - - - - - - - - - - - -		Epice and clartorio	m 1-	2/	-	
Li ogrand sp. 1 Unka. grand sp. 1 Sp. 1 Cryptontra sp. r Cryptontra sp. r Astrogalus sp. r Phacelia taniculifalia r Phacelia sp. r Corethrag ne filaginfella r Raphanestria 7 Corethrag ne filaginfella r Corethrag ne filaginfella r Coreth		Eliojonum p	+			
Cryptontra sp 1 Cryptontra sp 1 Cryptontra sp 7 Astrogalus sp 7 Phacelia tanicetifolia r Phacelia sp 7 Corethrog ne filaginfolia r Raphanesoria 7 		Li ognun sp.	+		-	
Sp 1 1 Cryptontra Sp r Astrogalus Sp r Phacelia tanicelifolia r Phacelia sp r Corethog ne filaginfella r Raphnessria 7 r Image: Sp r		antes graves ep		-		
Corporationa sp. r Astrogalus sp. r Phacedia tanicetifolia r Phacedia pp. r Corethrog ne filagin folia r Raphonesoria		5p		_	~	17
Astraçalus sp. r Phacelia tanicitífolia r Phacelia zp. r Corethrog ne filoginfolia r Raphanesoria z r 		Eggentha sp.	- r	<u> </u>	-+	C, circumelso
Astraçalus sp. r Phacelia tanicetifolia r Phacelia sp. r Corethrog ne filagin folia r Raphanesoria ? r 		Sp.	· ·		+	
Phacelia tanicetifolia r Phacelia 30, r Corethog ne filagi, folia r Raphanesoria 7 r 		Astraçains sp.	- (°		+	ž. <u>x</u>
Phacelia sp. Corethrog ne filagi, folia r Raphanesoria 2 r 		thackelia tanicetifoli	ia r	<u> </u>	+	
Cocethrog ne filagi folta ' Raphanesorria ?		Phacelia sp.		_	+	*
Kaphanesprin ? ?		Corethog ne Filaginal	slia		+	
Image: state		Kaphanesoria ?			-	
Image: set of the set of th				_	-	
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Page 2

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three stars and

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For Office Use: Final	database #:	Final vegetation type:	Alliance	2 	7
L LOCATIONAL/ENVIR	ONMENTAL	DESCRIPTION	Association		4
Database #: HV 005	Date:	Name of record	ler M. P. I.	circle: Relevé or (RA)	4
	4-5-	2) Other surrouse	en rinkien		4
The state of the second	UID.	Other surveyor	S: LG, AJ, Jessie		
	UID:	Location Name	:		
GPS name: MP Pho	ne	For Relevé	only: Bearing°, left axis at ID p	oint of Long / Short side	
UTME	UTN	IN	Zone: 11 NAD83	GPS error: ft./ m./ PDOP	
Decimal degrees: LAT	<u>34.7</u>	76052	LONG 1 8.89	6031	
GPS within stand? (Ye	7 No If No	, cite from GPS to stand: di	stance (m) bearing °	inclination °	
and record: Base point ID		Projected UTM	: UTME	UTMN	
Camera Name: Mt Phone	Cardinal r	photos at ID point:	N>		
Other photos:			<u>()</u>		0
Stand Size (acres): <1	E E I D			T DA Della	
Exposure Actual %		SE SW EL V	Plot Dimensions X	_ III KA Kadius _ III	
Exposure, Actual :		SE SW Flat Variable	e) Steepness, Actual ":	0° 1-5° × 5-25° > 25	
Topography: Macro: t	top upper	mid lower bottom	Micro: convex flat co	ncave undulating	
Geology code:	Soil Text	ure code:	Upland or Wetland/Ripa	arian (circle one)	
% Surface cover:	(In	cl. outcrops) (>60cm diam)	(25-60cm) (7.5-25cm) (2mm	n-7.5cm) (Incl sand, mud)	
H20: 🔿 BA Stems: 🔿	Litter: 5	Bedrock: (Boulder: (Stone: <) Cobble: 25 G	ravel: 15 Fines: 50 =100%	
% Current vear bioturbati	ion < \ P	ast bioturbation present?	Ves / No % Hoof punc	-h &	-
Fire evidence: Yes / No ((circle one) If y	es, describe in Site history	section, including date of fire, if k	nown.	
<u> </u>					u
Site history, stand age, con	nments: 5	ope surroun	ded by steeper	slopes at	
different an	gles. 1-	ragery shows	this as gee	yer area - almost	
looks like a	draine	rge. Fire h	istary - burned	read oak trees.	- both
Clamp to si	nub oal	e in center	; John- Indeer on	ks, also present.	speci
Excluding de	ence c	war do or	ale responde	for a poor	
	, mater	See Inter i	E it should (and and	
	a con tel	in Average inc	a avois all'hil	Island	
s ep			and the second	ive anables to a ho	A
Some 6 and - Lane 7	2 Looking	hedrock exercise	1	I may may have	ч
Disturbance and (Literation	J. M.D. S.	alt / invit	51 Ver	24	_
Disturbance code / Intensity	y (L,M,H): <u>+ (</u>		<u>//</u> "(Juner"//	
II. HABITAT DESCRIPTI	ON				
Tree DBH : T1 (<1" dbh). T2	2 (1-6" dbh), T3	(6-11" dbh), T4 (11-24" db	h), T5 (>24" dbh), T6 multi-lavere	d (T3 or T4 layer under T5, >60% cover)	
Shrub: S1 seedling (<3 vr. of	d), 82 voung	<1% dead), S3 mature (1-2	25% dead), S4 decadent (>25% dea	d) read oaks peaport	-
Herbaceous: H1 (12"-1-1	H2 (~12" L4)		but not under	_
Desert Pinerian Trea/Shund	n.), <u>114</u> (212 m	ht) 7 (2 100 ht) 7 (10)	200 ht) 4 (5200 ht)	CANE OF THE ROLD	
Desert Repartan Tree/Shrut	1. (<1.621. stem	n., 2 (2-1011. n.), 3 (10-	2011. III.), 4 (-2011. III.)		
III INTERDETATION O	E CTAND	uneter), 2 (1.5-6" diam.), 3	(~o diam.)		
III. INTERPRETATION O	r SIAND			DRECP	
Field-assessed variation 41	liance name:	Tulkerson	1/ 1/100 000	- UNEU	D
Field assessed Assessed	nance name:	7	n crappina	· · · · · · · · · · · · · · · · · · ·	
ricid-assessed Association n	iame (optional)	·			
Adjacent Alliances/direction	a:	~	1,	/	
Confidence in Alliance iden	tification: L	(M) H Explain:	night not fit	pirfectly	D
Phenology (E,P,L): Herb L	Shrub	TreeOther identif	ication or mapping information:	0	
"HV105" her	au 50 101	5 is existing	alat and the	set.	
00	SCHOLE 10	- is oxisting	his struce tor be	~~~	

Combined Vegetation Rapid Assessment and Relevé Field Form (Revised March 27, 2018)



Combined Vegetation Rapid Assessment and Relevé Field Form
(Revised March 27, 2018)

Data	base #:	(Revised	March	27, 2018)	
IV. V	EGETATION DESCRIPTION	SILC	IES 3	SHEET	
<u>% Co</u> <u>Heigh</u> H	ver - Conifer tree / Hardwood tree: // t Class - Conifer tree / Hardwood tree: // leight classes: 1=<1/2m, 2=1/2-1m, 3=1-2m, 4=2-3 Stratum categories: T=T	 Reg Reg 5m, 5=5-1(% enera enera Om, 6	NonVasc cover: Total % Vasc Veg cover: tting Tree: Shrub: 20 tting Tree: Shrub: 2 tting Tree: Shrub: 3 terbaceous: 1 i=10-15m, 7=15-20m, 8=20-35m, 9=35-50m, 10=>50m	
St. 1	% Cover Intervals for reference: r = trace. + =	bling, $E = S$	Eedli	ing, S = Shrub, H= Herb, N= Non-vascular	-
Stratun	n Species	% cover	C	25-15%, >15-25%, >25-50%, >50-75%, >75% Final species determination	
5	Hesperoyucca whippley	<1			
H	Acmispin glaber	41	1		
5	Arctostaphy ins alance	01	-		
5	Eriogon un fasciculation	4			
	Var. polifoliuma	1			
S	Garrya Flavesions	5			
5	Incher Oak Quercus	using:			
5	Eriodictyon crassifoli	1.0			
S	Ribes So Querrilow Fins,)	5			
H	Pensteman contractly Glice	10.			
Η	Astragalus =				
Н	Chin-Salvia job shoring				
14	Grodium	21			
H	Bomus and (maline)	20			
_	Unit of the and itensis	~~			
н	Elupara contras	C			
5	Eghad - washing aths		\rightarrow		
5	Semana Virians	21			
S	Malacan cal Farnicia	n			
H	Protocontin Promontin	≤ 1			
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	y.				
			_		
	Swind : 5-Tuck 8 "	40%			
	G.Flav 5	25%			
	E. crass 2	10 90			
	2, tas1 4	20 %			
	+ - 1% other	5 %			
	20				
	•				
Unusual	species:				

Page 2

n	1.4.4.00	Other Survey	vors:			Date: 4-6-21 Return.	-
Waypo	int ID:	CDS Name	MUP	nore Projected	? No/Yes/	Base / Digitized	
		If Yes, enter	Beari	ing (°): Dista	ance (m):	Inclination (°):	
UID: 1	HVODIA	If Yes or Di	gitized, en	ter: Base Waypoint	ID:		
•	N	Base / Proj	ected (circle	e one) Record either UTMs o	or Decimal Degr	rees GPS error (ft,) m./ PDOP 20	_
Locatio	on Name:	UTMs: UTMI	E	UTM	IN		
		Decimal degree	es: LAT 3	4.75667	3 LONG-	18.836876	
Stand S	Size: <1 (-5) >5	Camera:	Photo	os: 2N)		View Radius 70	
Exposu	re, Actual º:	NE NW S	e SV E	flat Variable Steepne	ss, Actual °:	0° (1-5°) > 5-25° > 25	_
Field A	lliance name: Eri	cameria	nans	cosa			-
Comme	ents: Sandy u	wash, lo	ots ob	bare grow	L. Lish	ter color on may.	
-	Oak sta	rd adjo	unt	on hills to	SE,		
	C Junn- tucke	si		\			-
% Cover	r: Conifer Hardy	wood To	tal Tree	Regen Tree Shrub	18 Herb	Total Veg Exotics (L,M,H)	cover
Strata S	Species	% cover	Strata	Species	/0 00101		-
51	A. tridentate	15	5	Kriog. Fasc. Vioni. Colina	2	5 & phedra K	1
<i>c</i>	C Var. Inden	7	5	H. whipplei	41	H Bromus tectorium <	1
5 2	C. nauseosa	mp	<	Bladderood	41		
5	Same mate	m 5		Samalat	-1		
4.ne	aus = 3570 L	ep. 3 : 254					
A.t.	raent-1900		and the second second	de Levidação de la companya en esta com de la companya de la			
Record	der: MVP	Other Surv	veyors:			Date: 4-6-21 Return?	0
Record	der: MVP	Other Surv GPS Nam	veyors:	Phane Projecte	ed? No/Yes	Date: 4-4-31 Return?	0
Record	der: MVP point ID: HV 00 7	Other Surv GPS Nam If Yes, ent	veyors: ne <u>MJP</u> ter: Bea	Phane Projecte aring (°): Di	ed? No/Yes	Date: 4-4-24 Return? s / Base / Digitized Inclination (°):	0
Record Wayp UID:	der: MVV point ID: HV 00 7	Other Surv GPS Nam If Yes, ent If Yes or I	veyors: le <u>MJP</u> ter: Bea Digitized, e	Projecte pring (°): Di enter: Base Waypoi	ed? No/Yes stance (m): nt ID:	Date: <u>4-6-21</u> Return?	0
Record Wayp UID: Locati	der: WVV point ID: HV 00 7 cion Name:	Other Surv GPS Nam If Yes, ent If Yes or I Base / Pro	veyors: ne <u>MJP</u> ter: Bea Digitized, e ojected (cir	Projecte pring (°): Di enter: Base Waypoi rele one) Record either UTM	ed? (So / Yes stance (m): nt ID: (s or Decimal D	Date: 4-6-21 Return?	0
Record Wayp UID: Locati	der: WVV point ID: HV 00 7 cion Name:	Other Surv GPS Nam If Yes, ent If Yes or I Base / Pro UTMs: UTM	veyors: ter: Bea Digitized, e ojected (cir ME	Phanel Projecte ring (°): Di enter: Base Waypoi rele one) Record either UTM UT 2	ed? No/ Yes stance (m): nt ID: Is or Decimal D FMN	Date: 4-4-21 Return? a/ Base / Digitized Inclination (°):	0
Record Wayp UID: Locati	der: WVV point ID: HV 00 7 cion Name:	Other Surv GPS Nam If Yes, ent If Yes or I Base / Pro UTMs: UTM Decimal deg	veyors: ter: Bea Digitized, c pjected (cir ME prees: LAT	Phanel Projecte aring (°): Di enter: Base Waypoi rcle one) Record either UTM UT 3 4 . 1 5 6 9 9	ed? 87/Yes stance (m): nt ID: is or Decimal D FMN & & LONG	Date: 4-4-2.1 Return? 5 / Base / Digitized Inclination (°):	0
Record Wayp UID: Locati	der: NVV point ID: HV 00 7 dion Name: Size: <1 (-3) >5	Other Surv GPS Nam If Yes, ent If Yes or I Base / Pro UTMs: UTP Decimal deg Camera:	veyors: he <u>MJP</u> ter: Bea Digitized, c ojected (cir ME press: LAT WP Pho- Me	Phane Projecte pring (°): Di enter: Base Waypoi rcle one) Record either UTM UT 3 4 . 7 . 5 . 6 9 . otos:	ed? No/ Yes stance (m): is or Decimal D IMN & &	Date: 4-4-2.1 Return? 5 / Base / Digitized Inclination (°):	0
Record Wayp UID: Locati	der: MVV woint ID: HV 00 7 HV 00 7 Size: <1 (-3) >5 Size: <1 (-3) >5 Size: <-1 (-3) >5	Other Surv GPS Nam If Yes, ent If Yes or I Base / Pre UTMs: UTM Decimal deg Camera:	veyors: ter: Bea Digitized, c ojected (cir ME pres: LAT SE \$\$\$	Phane Projecte pring (°): Di enter: Base Waypoi rele one) Record either UTM UT 3 4 . 1 5 6 9 9 otos: Flat Variable Steep	ed? Sol Yes stance (m): nt ID: (s or Decimal D CMN CMN CMN CMN CMN ness, Actual	Date: 4-4-2.1 Return? 5 / Base / Digitized Inclination (°):	<u>م</u>
Record Wayp UID: Locati Stand Exposi	der: W/W woint ID: H/V 00 7 H/V 00 7 Size: <1 (-3) >5 Size: <1 (-3) >5 Size: <1 (-3) >5 sure, Actual °: Alliance name:	Other Surr GPS Nam If Yes, ent If Yes or I Base / Pro UTMs: UTM Decimal deg Camera:	veyors: ter: Bea Digitized, c ojected (cir ME trees: LAT SE SW a	Phanel Projecte pring (°): Di enter: Base Waypoi rcle one) Record either UTM UT 3 4 . 1 5 6 9 9 otos: Flat Variable Steep 	ed? R / Yes stance (m): is or Decimal D FMN 8 8 LONG ness, Actual 1	Date: 4-4-2.1 Return? 5 / Base / Digitized Inclination (°):	۵
Record Wayp UID: Locati Stand Expose Field A	der: WVV boint ID: HV 00 7 dion Name: Size: <1 $(-5) > 5$ sure, Actual °: Alliance name: ϵ nents: $\sum Vichore$	Other Surr GPS Nam If Yes, ent If Yes, ent If Yes or I Base / Pre UTMs: UTM Decimal deg Camera: NE NW	veyors: ter: Bea Digitized, o ojected (cir ME reces: LAT SE SW a aa	Phanel Projecte pring (°): Di enter: Base Waypoi rele one) Record either UTM UT 3 4 . 7 5 6 9 9 otos: Flat Variable Steep useo sa one on men	ed? No/ Yes stance (m): is or Decimal D rMN 8 8 LONG ness, Actual ⁶ p . Ve	Date: $4-4-21$ Return? b/Base / Digitized Inclination (°): cgrees GPS error. ft m/ PDOP 2 G-118.836483 View Radius 2:0° (1.5°) > 5-25° > 25 Cy Thicker, plug 3000	
Record Wayp UID: Locati Stand Field / Comm	der: WVY boint ID: HV 00 7 dion Name: Size: <1 (-3) >5 sure, Actual °: Alliance name: ϵ ments: $5 ligW$	Other Surv GPS Nam If Yes, end If Yes, or I Base / Pro UTMs: UTM Decimal deg Camera: NE NW cicamera i ty for	veyors: ter: Bea Digitized, o Digitized, o ojected (cir ME pres: LAT SE SW a na ker z Luok 1	Phane Projecte pring (°): Di enter: Base Waypoi rcle one) Record either UTM UT 3 4 . 7 5 6 9 9 otos: PM Flat Variable Steep 	ed? No stance (m):	Date: 4-4-2.1 Return? 5 / Base / Digitized Inclination (°):	
Record Wayp UID: Locati Expose Field / Comm	der: WVV point ID: HV 00 7 dion Name: Size: <1 (-3) >5 sure, Actual °: Alliance name: ϵ nents: $5 light d strub.$	Other Surv GPS Nam If Yes, ent If Yes or I Base / Pro UTMs: UTM Decimal deg Camera: NE NW	veyors: te <u>MJP</u> ter: Bea Digitized, c ojected (cir ME press: LAT We Pho SE SW a aa kes z Look 1	Phane Projecte pring (°): Di enter: Base Waypoi role one) Record either UTM UT 3 4 . 7 5 6 9 9 otos: E ^N Flat Variable Steep 	cd? Sol / Yes stance (m):	Date: $4-4-21$ Return? b / Base / Digitized Inclination (°): egrees GPS error. ft. m/ PDOP 2 G-118.836483 View Radius View Radius 2: 0° (1-5°) > 5-25° > 25 9 Thicker, plug 36m	<u> </u>
Record Wayp UID: Locati Stand Exposi Field Comm	der: MVV point ID: HV 00 7 cion Name: Size: <1 (-5) >5 sure, Actual °: Alliance name: ϵ nents: $51ighting = 1$	Other Surr GPS Nam If Yes, ent If Yes or I Base / Pro UTMs: UTM Decimal deg Camera: NE NW	veyors: ter: Bea Digitized, o ojected (cir ME pres: LAT MACPhi SE SE Look 1 Look 1	Phanel Projecte pring (°): Di enter: Base Waypoi rcle one) Record either UTM UT 3 4.75699 otos: Flat Variable Steep 	ed? (Sof / Yes stance (m): is or Decimal D FMN 8 8_ LONG ness, Actual (p . Ve 5 2 5	Date: $4-4-21$ Return? 5/Base / Digitized Inclination (°): cgrees GPS error ft m/ PDOP 2 3-118.836483 View Radius 2:0° (1.5°) > 5-25° > 25 3 + 10 + 25 + 25° > 25	<u>و</u>
Record Wayp UID: Locati Stand Expose Field A Comm	der: WVV point ID: HV 00 7 dion Name: Size: <1 (-3) >5 sure, Actual °: Alliance name: \in nents: 5 light d strub - rer: Conifer Han [Species]	Other Sur GPS Nam If Yes, end If Yes, or I Base / Pre UTMs: UTM Decimal deg Camera: (NE NW cicamer i t Ly Am f Yee? rdwood	veyors: le <u>MJP</u> ter: Bea Digitized, e ojected (cir ME reces: LAT ME Pho SE <u>SW</u> a na kes <u>E</u> Look 1 Total Tree rec Strata	Phanel Projecte pring (°): Di enter: Base Waypoi rele one) Record either UTM UT 3 4 . 7 5 . 6 9 9 otos: Flat Variable Steep Inseo Sa one on me Inve dead Ye Regen TreeShr Species	ed? No / Yes stance (m): is or Decimal D FMN 8 8 LONG ness, Actual f p . Ve rba 50 mab 25 Her % cover	Date: $4-4-2.1$ Return? 5 / Base / Digitized Inclination (°):	.6 .6
Record Wayp UID: Locati Stand Expose Field A Comm Jean Strata	der: WVV point ID: HV 00 7 dion Name: Size: <1 (-3) >5 sure, Actual °: Alliance name: d strub - er: Conifer Ha Species	Other Surv GPS Nam If Yes, end If Yes, end If Yes or I Base / Pre UTMs: UTP Decimal deg Camera: Camera: NE NW Cicamera Camera: Camera Camera Camera Camera	veyors: ter: Bea Digitized, o ojected (cir ME pres: LAT SE SW A AA LUCK 1 LUCK 1 Total Tree_ ver Strata	Phane Projecte pring (°): Di enter: Base Waypoi rele one) Record either UTM UT 3 4 . 7 5 6 9 9 otos: PM Flat Variable Steep 	ed? No / Yes stance (m): is or Decimal D IMN & BLONG ness, Actual 1 p ve ve here % cover	Date: 4-4-2.1 Return? 5 / Base / Digitized Inclination (°):	.6 .6
Record Wayp UID: Locati Stand Expose Field A Comm Jea Strata	der: WV point ID: HV 00 7 dion Name: Size: <1 (-3) >5 sure, Actual °: Alliance name: ϵ nents: $5 light d strub -rer: Conifer HanSpeciesA \cdot triden to$	Other Surv GPS Nam If Yes, end If Yes or I Base / Pro UTMs: UTM Decimal deg Camera: NE NW ci camera ti Y day fi camera ti Y day fi con day day day day day day day day	veyors: ter: Bea Digitized, c ojected (cir ME press: LAT NMCPho SE NMCPho SE NMCPho Color Color Color Color Color Color Color Color Color Color C	Phane Projecte pring (°): Di enter: Base Waypoi rele one) Record either UTM UT 3 4 . 7 5 . 6 9 9 otos: Flat Variable Steep 	ed? 89/Yes stance (m): nt ID: (s or Decimal D TMN 8 8_LONG ness, Actual 1 p. Ve 5 b 25 Her % cover 2	Date: $4-4-2.1$ Return? S / Base / Digitized Inclination (°): egrees GPS error. ft) m/ PDOP 2 G: 1 S: 1 0° 1-5° > 5-25° > 25 S: 0° 1 Total Veg Exotics (L,M,H) Strata Species % H Exodurum Cir.	2.6 .6 .6 .0 .0 .0
Record Wayp UID: Locati Stand Exposi Field Comm	der: MVV point ID: HV 00 7 dion Name: Size: <1 (-3) >5 sure, Actual °: Alliance name: ϵ nents: $S light d s Vr Wb -er: Conifer HaSpeciesA + ridentaE$ nameses	Other Surn GPS Nam If Yes, ent If Yes or I Base / Pre UTMs: UTM Decimal deg Camera: C	veyors: te <u>MJP</u> ter: Bea Digitized, c ojected (cir ME rees: LAT ME SE SW a na kes 2 Look 1 Total Tree er Strata S 5	Pharle Projecte pring (°): Di enter: Base Waypoi rele one) Record either UTM UT 3 4 . 7 5 6 9 9 otos: UT Flat Variable Steep 	ed? Sol / Yes stance (m):	Date: $4-4-21$ Return? 5 / Base / Digitized Inclination (°): egrees GPS error. ft. m/ PDOP 2 	

32

Rec	order: MVP	Other Surve	yors:				D	ate: 4-6-21 Return?		
Wa	ypoint ID: HV008	GPS Name If Yes, enter	: Bea	Pı ring (°):	rojected? N Distanc	lo / Yes / e (m):	Base / I	Digitized Inclination (°):		
UID	:	If Yes or Dig	gitized, e	nter: Base W	aypoint ID):				
Loc	ation Name:	Base / Proje	ected (cire	ele one) Record eith	ner UTMs or D	ecimal Deg	grees	GPS error: (ft.) m./ PDOP _	26	
		Decimal degree	s: LAT 2	4.789	UIMN	LONG -	119	2.848036		
Stan	d Size: <1 1−5 5	Camera: "ph	one Pho	otos: 🔊		5		View Radius		
Exp	osure, Actual º:	NE NW SI	e sw	Flat Variable	Steepness,	Actual °:	vinible	0° 1-5° > 5-25° >	28	
Field	Alliance name: Ove	scus John t	nect +	Siteepnens		N		7		
Com	ments: Variable	sloping. V trails	a. John	gh stord.	soil is ,	some	open, code	MCSL. Lots of	s, helps baresidin	nend
Lo	wer cover of no	n-natives,	justs	ome of the	bione.	some i	brows ?	f of granded, some	makes	
% Co	ver: Conifer Hardv	vood Tot	al Tree	Regen Tree	Shrub_	\ Herb	2 T	Total Veg Exotics (L,M	(,H) L	
Strata	Species Quescus John-Tuck	esi 25	Strata	Species	• ×	% cover	Strata	Species	% cover	
5	Juni pet	١	5	Arctostapny	lus	2	5	Rhamnus illicitolia	<1	
5	E. nauseosa	21	5	ericameria	ifolia	<1	S	Ribes quercitorum	KI	
5	Eriogonum Forsc polifoliu	_ 10	H	pon see	nada	41	+(bromus Sp.	<1 (
*							н	prickly phlok	1	

RECON FIELD FORM (March 6, 2019, with slope/aspect)

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Recorder: ₩VΨ	Other Survey	vors:	6, AJ, Jessi		1	Date: 4-7-21 Return	?
Waypoint ID:	GPS Name	MUP P	here Projected?	No/ Yes	/ Base /	Digitized	
HV009	If Yes, enter	Bea	ring (°): Dista	nce (m): _		Inclination (°):	_
UID:	If Yes or Dig	gitized, e	enter: Base Waypoint	ID:		1	
Location Name:	Base / Proje	cted (circ	cle one) Record either UTMs or	Decimal De	grees	GPS error: ft7 m./ PDOP	19
and a	UTMs: UTME		UTMN	۱			
NE2 1001	Decimal degree	s: LAT <u>3</u>	4.745035	LONG-	119	3.898414	
Stand Size: <1 1-5 >5	Camera:	Pho	tos: (N)			View Radius	
Exposure, Actual º:	NE NW SE) sw	Flat Variable Steepness	s, Actual °:		0° (1-5°) > 5-25° >	25
Field Alliance name: Er	icameria	lineari	ifolia - Cleome isc	meris			
Comments: Near hist Open clearing in backwheat. some high	chapparal chapparal	eep sh , with ost P.	the Erlinearifolia mano phylla are	b graz scatt youg,	ered 0-2	P. nonophylla,	4.
% Cover: Conifer Hardy	wood Tota	l Tree	Regen Tree Shrub	10 Herb	Q TO	tal Veg Exotics (L.M.	Ю
Strata Species Ericameria	% cover	Strata	Species	% cover	StrataS	pecies	% cover
E. nauseabsa	2 2		H. whippleyi	21	+	stiph Speciosa	41
P. monophylla	1		Castillija sp.	<1		Bronnes sg.	<1
E. fascic vor pol.	3		Erodium cic.	< 1		Elymns sp. 1	<1
Towards SW: PING	Im/gunip	er on	slopes			(squireltail)	

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Recorder:	Other Survey	ors:				Date: 4-7-2	Return?	
Waypoint ID:	GPS Name_ If Ves_enter:	Myp yv Bear	ring (°): Distan	No / Yes ce (m): _	/ Base	/ Digitized Inclination	n (°):	
UID: HV010	If Yes or Dig	itized, en	nter: Base Waypoint II	D:				
Location Name:	Base / Projec	cted (circ	le one) Record either UTMs or I UTMN	Decimal De	grees	GPS error: f	t./ m./ PDOP _	
	Decimal degrees	: LAT <u>3</u>	4.745440	LONG	- \	18.89	7297	-
Stand Size: <1 1-5	>5 Camera: phi	Phot	tos: U	/			View Radius	
Exposure, Actual º: _	NE NW SE) SW	Flat Variable Steepness,	Actual °:	<u> </u>	0° (1-5)	> 5-25° > 2	25
Field Alliance name:	Adenostana	fasc	iculat un					
Comments: Cham	ise chappoide a conntig o	10 Son puncti	new hat decader	ot. N	<u>ot</u>	no.	erb cover	
% Cover: Conifer	Hardwood Total	Tree 1	Regen Tree Shrub 4	0 Herb	-6-	Total Veg	Exotics (L,M,H	2
Strata Species	miliari 3	Strata	Species	% cover	Strata	Species		% cover
S A. Fascic	ulatum 35	Ś	Phoradenaron Villosum	<1	T	Opuntia	basileris	21
S A. glance	2	5	Lancesa subspicata	a 41				
T P. monoph	ylla 1	5	Juniper	<1				

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	a succession of the second state of the	the second s					
Recorder: M. Patter	Other Sur	veyors:	LG		Date: 4.3	-2 Return?	п
Waypoint ID:	GPS Nam	e mue	phone Project	ted? No/V	es / Base / Digitized		
HVOII	If Yes, ent	er: B	earing (°):	Distance (m):	Inclinatio	on (°):	
UID:	If Yes or I	Digitized	enter: Base Wavn	oint ID:			
Location Name:	Base / Pro	jected (d	circle one) Record either UT	Ms or Decimal I	Degrees GPS error	0./ m./ PDOP	19
NONT 111	UTMs: UTM	IE	u	JTMN			
plot	Decimal degr	ees: LAT	34.7475	5 LONG	-118.820	0354	
Stand Size: <1 1-5 5	Camera: 🚧	have Pl	hotos: 💛			View Radius	
Exposure, Actual °:	NE NW S	SESW	Flat Variable Steep	oness, Actual °	: 0° (1-5°	> 5-25° > 25	
Field Alliance name: Eri	ogonun	Fasci	culatura	۶	3		
Comments: Shrubby until Junipes, much herb, Wash	stoud a Sohn t I drain	dig & nacces ye - y	o track + roo oaks, Lots vatural, souge A	d, slope of exp J,+Septi	c buried in	townds E reand, no areq.	E t
% Cover: Conifer Hardwo	od Tot	al Tree	Regen Tree Shr	ub <u>30</u> Herb	Total Veg 3	Exotics (L,M,H)	L
trata Species Ephedra viridis	% cover < \	Strata	Species Bladder pod	% cover	Strata Species H. whipp	ilei %	cover < \
Encelia virginensie	5	2	Eriodictym	n 3	Bronus	sp.	1 *
Ericanesia nouscosa	7		Erodium	~~ <1	Ameinete	selata: H	race
Eriogonum Fasiculatur	20		Plag/cryponth	a trace	Opuntia bas	iloris t	serve
(not mojave)	1		Gold fields	· ۲۱	Unk. bu	inchange t	sae

Construction of

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Waypoint ID: GPS Name Me (CHONK) Projected? No (Yes) Base / Digitized
$HVO \mid a$ If Yes, enter: Bearing (°): $240 - 13$ Distance (m): $75 - 40$ Inclination (°):
UID: If Yes or Digitized, enter: Base Waypoint ID:
Location Name: Base / Projected (circle one) Record either UTMs or Decimal Degrees GPS error (fr.) m./ PDOP 20
HUNGRY VALLEY UTMS: UTME UTMN
Decimal degrees: LAT 3 9.12 5 6 6 LONG-1 8.819007 Stand Size of 1.15 5 Company Photon
Stand Size: $<1 1-5 > 5$ Camera: Fnotos: View Radius
Field Alliance name: $\xi_{cipponum}$ fu scicula tum
Comments: BEDROLK EXPOSED / ROLVAL / SEES NEW / NOTATION E SLODE &
ASPECT / PATCHY J. TUCKERIJ / ADTACENT TO FUE "ERED"
Recon is ab hill area - not flatland. Projected. Imagery - lots of white ground
% Cover: Conifer O Hardwood 5 Total Tree 5 Regen Tree & Shrub 14 Herb Total Veg 19 Exotics (LM,H)
Strata Species % cover Strata Species % cover Strata Species % cover
SE EDITURITIE 12 SA GLAVIA KIND PROTOCOL
S H DATEL I S C MALERER 1
S T WHAT LEST I S S T TRANSPORT
E. VERIDIS TO E. VIRGINENDIS F
Recorder: MVT Other Surveyors: L G , A S , S V Date: 2-7-21 Return: Waypoint ID:
$\frac{Waypoint D}{W} = \frac{WVP}{Phine} + \frac{WVP}{Ph$
UID: If Yes or Digitized, enter: Base Waypoint ID:
UID: If Yes or Digitized, enter: Base Waypoint ID: Location Name: Base / Projected (circle one) Record either UTMs or Decimal Degrees GPS error: ft/m/ PDOP
UID: If Yes or Digitized, enter: Base Waypoint ID: Location Name: Base / Projected (circle one) Record either UTMs or Decimal Degrees GPS error: ft/m/PDOP Ver D8
UID: If Yes or Digitized, enter: Base Waypoint ID: Location Name: Base / Projected (circle one) Record either UTMs or Decimal Degrees GPS error: ft/m/PDOP Newr 108 UTMs: UTME
UID: If Yes or Digitized, enter: Base Waypoint ID: Location Name: Base / Projected (circle one) Record either UTMs or Decimal Degrees GPS error: ft/m/PDOP Newr 108 UTMs: UTME UTMN Decimal degrees: LAT 34.716437 LONG-118.995511 Stand Size: Camera: MVP Photos: N
UID: If Yes or Digitized, enter: Base Waypoint ID: Location Name: Base / Projected (circle one) Record either UTMs or Decimal Degrees GPS error: ft/m/PDOP New 108 UTME UTMS. Decimal degrees: LAT 3 4.3 1 6 4 3 7 LONG - 1 18.995511 Stand Size: <1
UID: If Yes or Digitized, enter: Base Waypoint ID: Location Name: Base / Projected (circle one) Record either UTMs or Decimal Degrees GPS error: ft/m/PDOP Newr 108 UTMs: UTME UTMN Decimal degrees: LAT 34.716437 LONG - 118.895511 Stand Size: (1-5) Camera: MVP Photos: N View Radius 50 m Exposure, Actual °: NE NW SE SW Flat Variable Steepness, Actual °: 0° (1.5°) >5-25° >25 Field Alliance name: Lepide Sportune Squameture
UID: Location Name: Acar 108 Location Name: Mear 108 Exposure, Actual °: NE NW SE SW Flat Variable Steepness, Actual °: 0° (-5°) > 5-25° > 25 Field Alliance name: Lepide sportune Squamatum Comments: Engided wash, don inated by L. Squamatum, Rockier, with larger
UID: Location Name: Near 108 Exposure, Actual °: NE NW SE SW Flat Variable Steepness, Actual °: 0° (1.5°) >5-25° >25 Field Alliance name: Lepide sportun Gguanatum Comments: graided wash, don inated by L. Squanatum, Rockier, with larger rocks from upland, Historic garbage - cans, Swedded rubber - tires?
UID: Location Name: Near 108 Location Name: Location Name: Near 108 Location Name: Decimal degrees: LAT 3 4 . 7 1 6 4 3 7 LONG - 1 1 8 . 8 9 5 5 1 1 Stand Size: <1 (1-5) >5 Camera: MVP Photos: No Photos: No Location Name: Location Name: Ne NW SE SW Flat Variable Steepness, Actual °: O° (1.5) >5-25° >25 Field Alliance name: Lepidosportum Squamatum Comments: Braided wash, don: nated by L. Squamatum . Rackier, with larges rocks than upland, Historic garbage - cans, Swedded rubber - tires?
UID: Location Name: Near 108 Exposure, Actual °: NE NW SE SW Flat Variable Steepness, Actual °: 0° (1-5) >5-25° >25 Field Alliance name: Lepide sportune Squanature Comments: graided wash, don inated by L. Squanature . Rockier, with larger rocks ture upland. Historic garbage - cons, swedded rubber - tires? % Cover: Conifer Hardwood Total Tree Regen Tree Shrub Herb Total Veg Exotics (LM,H)
UID: If Yes or Digitized, enter: Base Waypoint ID: Location Name: Base / Projected (circle one) Record either UTMs or Decimal Degrees GPS error: ft/m/PDOP Near 108 UTMs: UTME UTMN Decimal degrees: LAT 3 4.7 1 6 4 3 7 LONG- 1 18.99 5 5 1 1 Stand Size: Image: View Radius 50 m View Radius 50 m View Radius 50 m Exposure, Actual °: NE NW SE SW Flat Variable Steepness, Actual °: 0° I-5° >5-25° > 25 Field Alliance name: Lepidesportum gauanatum Gower, Storest Image: Comments: Grai ded wash, don inated by L. Squanatum Comments: Brai ded wash, don inated by L. Squanatum Rackier, with larger ro LKS tum upland, Historic gar bage - cons, Swedded rubber - tires? % Cover: Conifer Hardwood Total Tree Regen Tree Shrub Herb Total Veg Exotics (LM,H) Strata Species % cover Strata Species % cover
UID: Location Name: New 108 Base / Projected (circle one) Record either UTMs or Decimal Degrees GPS error: ft/m/PDOP New 108 UTMs: UTMEUTMN Decimal degrees: LAT 3 4.7 1 6 4 3 7 LONG - 1 1 8 . 8 9 5 5 1 1 Stand Size: <1 (1-5) >5 Camera: MVP profe Photos: M Exposure, Actual °: NE NW ED SW Flat Variable Steepness, Actual °: 0° (1.5°) >5-25° >25 Field Alliance name: Lepidosportum Squamatum Comments: Erai ded wash, don: nated by L. Squamatum . Rackier, with larger rocks tum upland, Historic garbage - cons, Swedded rubber - tires? % Cover: Conifer Hardwood Total Tree Regen Tree Shrub Herb Total Veg Exotics (LM,H) Strata Species % cover Strata Species % cover Strata Species % cover
UID: If Yes or Digitized, enter: Base Waypoint ID: If Yes or Digitized, enter: Base Waypoint ID: Near 108 UTMs: UTMEUTMN Decimal degrees: LAT 3 4.71 6 4 37 LONG-118.895511 Stand Size: <1 (1-5 >5 Camera: MVP Photos: N Exposure, Actual °:NE NW SE SW Flat Variable Steepness, Actual °: 0° (1-5°) >5-25° >25 Field Alliance name: Lepido Sportum Squamatum Comments: Braided wash, don: nated by L. Squamatum. Rackier, with larger rocks tum upland, Historic garbage - cans, Swedded rubber - tires? % Cover: Conifer Hardwood Total Tree Regen Tree Shrub Herb Total Veg Exotics (L,M,H) Strata Species % cover Strata Species % cover StrataSpecies % cover for a strataSpecies for a strataSpec
UID: If Yes or Digitized, enter: Base Waypoint ID: If Yes or Digitized, enter: Base Waypoint ID: Base / Projected (circle one) Record either UTMs or Decimal Degrees GPS error: ft/m/PDOP Near 108 UTMs: UTME UTMN Decimal degrees: LAT 3 4.716437 LONG-118.895511 Stand Size: <1 (1-5) >5 Camera: MVP Photos: N Exposure, Actual °: NE NW SE SW Flat Variable Steepness, Actual °: 0° (1.5°) >5-25° >25 Field Alliance name: Lepido Sportum Squamatum Comments: Braided wash, don: nated by L. Squamatum. Rackier, with larger rocks the upland, Historic garbage - cans, Swedded rubber - tires? % Cover: Conifer Hardwood Total Tree Regen Tree Shrub Herb Total Veg Exotics (LM,H) Strata Species % cover Strata Species % cover StrataSpecies % cover S Lepido sportum 20 S Juniper T S Coffe Lerry T Strata Species % cover Strata Species % cover StrataSpecies % cover T Strata Species % cover Strata Species % cover StrataSpecies % cover T Strata Species % cover Strata Species % cover StrataSpecies % cover T S Lepido sportum 20 S Juniper T S Coffe Lerry T S E. Fasc. vor
UID: If Yes or Digitized, enter: Base Waypoint ID:
UID: If Yes or Digitized, enter: Base Waypoint ID: Location Name: Near 108 UTMS: UTMEUTMNUTMN Decimal degrees: LAT 3 4.7 1 6 4 3 7 LONG- 1 18.895511 Stand Size: <1 (1-5 >5 Camera: My Photos: M) Exposure, Actual °: NE NW (E) SW Flat Variable Steepness, Actual °: 0° (1.5) >5.25° >25 Field Alliance name: Lepido Sportum Squamatum Comments: Braided wash, don inated by L. Squamatum. Rackier, with larger rocks tum upland, Historic garbage - cans, swedded rubber - tires? % Cover: Conifer Hardwood Total Tree Regen Tree Shrub Herb Total Veg Exotics (LM.H) Strata Species % cover Strata Species % cover StrataSpecies % cover S Lepido sportum 20 S Juniper r S Coffe berg S E. Fasc. var. 18 S Carco un rum S E. Fasc. var. 19 S S Carco un rum S E. Fasc. var. 19 S S Carco un rum S E. Fasc. var. 19 S S Carco un rum S E. Fasc. var. 18 S Carco un rum S E. Fasc. var. 19 S S Carco un rum S E. Fasc. var. 19 S S Carco un rum S E. Fasc. var. 19 S S San burub ninra

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Recorder: Fessi V	Other Surve	yors: 🖡	1P, LG, AJ			Date: 04/08	/21 Return	n? 🗆
Waypoint ID:	GPS Name	mp p)	Mare Projected?	No Yes	Base	e / Digitized		
HV014	If Yes, enter	r: Be	aring (°): <u>SW</u> Dista	nce (m): _	10	Inclinatio	on (°):	_
UID:	If Yes or Di	igitized,	enter: Base Waypoint	ID:				
Near plot 17	Base / Proj UTMs: UTMI	ected (ci E	rcle one) Record either UTMs or UTM	Decimal De	grees	GPS error:	ft) m./ PDOI	20
•	Decimal degree	es: LAT	34.769685	LONG -		8.85	2458	
Stand Size: <1 (1-5)>5	Camera: Mp	thine Ph	iotos:				View Radiu	s 30m
Exposure, Actual º:(NE NW S	E SW	Flat Variable) Steepnes	s, Actual °:		0° 1-5°	> 5-25° (25
Field Alliance name: Que	rens joh	in the	cheri			2		
Comments: Several nat Piñon then we saw at b.	ive & non-	native, steep !	grass species, approx. h.11 by Wash, juniper \$3	lacre, a cruboale:	few same	dead P. mon height so pri	ophyllic, mar thing in the	e byer
% Cover: Conifer 5 Hardw	vood 18 Tot	al Tree 2	3 Regen Tree A Shrub	Herb	30	Total Veg 37	Exotics (L.M	HD L
Strata Species	% cover	Strata	Species	% cover	Strata	Species	Enouro (Epin	% cover
5 Q. johntuckeri	18	5	A. alauca		s	R. illia	alia	ſ
+ P. Monophyla	3	S	L. Subspicotole	ſ			OF M	
5 J. californicus	2	h	Unk grass	30				
		×	0	1.8				
	and a second		V					
Recorder: MP	Other Surva	eyors:	LG , AJ, JV			Date: 4 - 8	الله Retur	n? 🗆
Recorder: MP Waypoint ID: HV015	Other Surv GPS Name If Yes, ente	eyors: e <u>M</u> e er: Be	LG, A3, 5^{\vee} $\frac{1}{2}$ have Projected earing (°): $\frac{1}{20}$ m $\frac{1}{9}$ EDista enter: Base Waynoint	? No / Yes ance (m):	s / Bas 270	Date: 4 - 8) Digitized _ Inclination	۲-کر Retur on (°):	n? 🗆
Recorder: $M\rho$ Waypoint ID: $H \lor O15$ UID: Location Name:	Other Surve GPS Name If Yes, ente If Yes or D Base / Proj	eyors: e <u>M</u> e er: Be bigitized, jected (c	LG, AJ, JV \underline{Y} have Projected earing (°): $\underline{RomN} \stackrel{bo}{=} E$ Dista , enter: Base Waypoint circle one) Record either UTMs of	? No / Yes ance (m): ID: or Decimal D	s / Eas 270 egrees	Date: 4 - 8) Digitized GPS error	۲۰:۲۱ Retur on (°): (tt. m./ PDO)	n? □
Recorder: MP Waypoint ID: HV015 UID: Location Name: off of neadous facil	Other Surve GPS Name If Yes, ente If Yes or D Base / Proj UTMs: UTM	eyors: e <u>M</u> ? er: Bo bigitized, jected (c E	LG, AJ, JV <u>*</u> have Projected earing (°): <u>Rown to EDista</u> , enter: Base Waypoint sircle one) Record either UTMs of <u></u> UTM	? No / Yes ance (m): ID: or Decimal D N	s / Eas 2 70 egrees	Date: 4 - 8	3-21 Retur on (°): (ft) m./ PDO	n? □
Recorder: MP Waypoint ID: HV015 UID: Location Name: off of weadous facil	Other Surve GPS Name If Yes, ente If Yes or D Base / Proj UTMs: UTM Decimal degre	eyors: e <u>M</u> <u>P</u> er: Be bigitized, jected (c E ees: LAT	LG, AJ, JV Phane Projected earing (°): Aron N to E Dista , enter: Base Waypoint circle one) Record either UTMs of UTM 3 4 . 7 4 9 6 8 hotor:	? No / Yes ance (m): ID: or Decimal Do N 5_ LONC	s / Éas 2 70 egrees 	Date: 4 - 8 / Digitized Inclination GPS error 1 8 8 8	(-) Retur on (°): (ft,) m./ PDO 3 3 1 1 View Badii	n? PO 1
Recorder: MP Waypoint ID: HV015 UID: Location Name: off of Newdows facil Stand Size: <1 1-5 >5	Other Surve GPS Name If Yes, ente If Yes or D Base / Proj UTMs: UTM Decimal degre Camera: (h)	eyors: e <u>M</u> e er: Be igitized, jected (c E ecs: LAT phonc P	LG, AJ, JV <u>*</u> hone Projected earing (°): <u>Romn to EDista</u> , enter: Base Waypoint sircle one) Record either UTMs of <u>34.74968</u> hotos:	? No / Yes ance (m): ID: or Decimal Do N 5_ LONG	s / Eas 2 70 egrees ;-]	Date: 4 - 8 Digitized Inclinati GPS error 18.88	(1-2.) Retur on (°): (ft) m./ PDO 3 3 1 7 View Radit	n? P_20_ I 15_ <u>300 m</u>
Recorder: MP Waypoint ID: $H \lor 0.5$ UID: Location Name: off of meadous facil Stand Size: <1 1-5 (>5) Exposure, Actual °:	Other Surv GPS Name If Yes, ente If Yes or D Base / Proj UTMs: UTM Decimal degr Camera: () NE NW S	eyors: e <u>M</u> φ er: B φ bigitized, jected (c E ees: LAT φ φ honc P SE (SW)	LG, AJ, JV $\frac{1}{2}$ kan Q Projected earing (°): $\frac{1}{20mN} = D$ E Dista , enter: Base Waypoint circle one) Record either UTMs of 3 4 . 7 4 9 6 hotos: Flat Variable Steepne	? No / Yee ance (m): ID: or Decimal Do N 5 LONG ss, Actual °	s / Eas 2 70 cgrees 	Date: 4 - 8 / Digitized Inclination GPS error 8 . 8 8 0° 1-5°	(-) Retur on (°): (t,) m./ PDO 3 3 1 1 View Radiu (> 5-25)	$\frac{n?}{20}$ $\frac{1}{15 \frac{300}{5} m}$ > 25
Recorder: MP Waypoint ID: HV015 UID: Location Name: off of weadous frail Stand Size: <1 1-5 >5 Exposure, Actual °: Field Alliance name: Qw	Other Surve GPS Name If Yes, ente If Yes or D Base / Proj UTMs: UTM Decimal degre Camera: (N NE NW S	eyors: $e \ M \ \ell$ er: Bo bigitized, jected (co EE $e \ Phone Phone Phone SE$ SE (SW sha +	LG, AJ, JV $\frac{1}{2}$ how Projected earing (°): $\frac{1}{20}$ M to EDista , enter: Base Waypoint tircle one) Record either UTMs of 34.7496 hotos: Flat Variable Steepne wether i	? No / Yes ance (m): or Decimal Do N 5_ LONG ss, Actual °	s / Eas 2 70 cgrees 	Date: 4 - 8 Digitized Inclinati GPS errors 8 8 8 0° 1-5°	(1-2.) Retur on (°): (ft) m./ PDO 3 3 1 7 View Radit > 5-25 ⁹	$\frac{n? \Box}{P 20}$ $\frac{1}{15 300 m}$ > 25
Recorder: MP Waypoint ID: HV015 UID: Location Name: off of meadous trail Stand Size: <1 1-5 -5 Exposure, Actual °: Field Alliance name: QW Comments: reading free	Other Surve GPS Name If Yes, ente If Yes or D Base / Proj UTMs: UTM Decimal degre Camera: (N NE NW S	eyors: e <u>M</u> e er: Be bigitized, jected (c E eces: LAT p Phone P SE (SW Shn + an(L, C	LG, AJ, JV ⁴ have Projected earing (°): <u>Aron N to EDista</u> , enter: Base Waypoint circle one) Record either UTMs of <u>34.74968</u> hotos:) Flat Variable Steepne uccessi uccessi uccessi	? No / Yee ance (m): iD: or Decimal D in <u>5</u> LONG ss, Actual ° <u>5</u> LONG	s / Gas 2,70 cegrees :	Date: 4 - 8 / Digitized Inclinati GPS error 18.88	(-) Retur on (°): (t) m./ PDO 3 3 1 7 View Radin >5-25	n? P_20_ I > 25
Recorder: MP Waypoint ID: HV015 UID: Location Name: off of readous facil Stand Size: <1 1-5 >5 Exposure, Actual °: Field Alliance name: Qw Comments: readding from	Other Surve GPS Name If Yes, ente If Yes or D Base / Proj UTMs: UTM Decimal degre Camera: (N NE NW S Succes (S) co DM a dist	eyors: e M P er: Be pigitized, jected (c EE e Phone P SE (SW shart + and, C	LG, AJ, JV <u>P</u> hone Projected earing (°): <u>RomN</u> ^{bo} E Dists , enter: Base Waypoint tircle one) Record either UTMs of <u>UTM</u> <u>3 4 . 7 4 9 6 8</u> hotos:) Flat Variable Steepne under i can't see herbs of her then	P No / Yes ance (m): ID: or Decimal D N 5_ LONG ss, Actual °	s / Gas 2 7-0 	Date: 4 - 8 / Digitized Inclinati GPS error 8 8 8 0° 1-5°	3-2.) Retur on (°): (t,) m./ PDO 3_3_1_1 View Radiu >5-25	n? P20 1 15_ <u></u> > 25
Recorder: MP Waypoint ID: HV015 UID: Location Name: off of neadous trail Stand Size: <1 1-5 >5 Exposure, Actual °: Field Alliance name: Comments: recording from	Other Surve GPS Name If Yes, ente If Yes or D Base / Proj UTMs: UTM Decimal degre Camera: (N NE NW S	eyors: e M P er: Be igitized, jected (c E P Phonc P SE SW shn + an(C, C	LG, AJ, JV <u>#</u> have Projected earing (°): <u>RomN to EDista</u> , enter: Base Waypoint sircle one) Record either UTMs of <u>3 4 . 7 4 9 6 8</u> hotos:) Flat Variable Steepne <u>netter</u> ; ian't see hebs other then	? No / Yee ance (m): ID: ID: Sor Decimal D N Sor Decimal D Sor Decimal D N Sor Decimal D Sor Decimal D So	s/ fas 2 70 egrees : 10 J	Date: 4 - 8 / Digitized Inclinati GPS error 1.8.8.8 0° 1-5°	(3-2.) Retur on (°): (t,) m./ PDO 3 3 1 7 View Radiu ≥ 5-25 ⁹	$\frac{1}{15 - \frac{300}{10}}$
Recorder: MP Waypoint ID: HV015 UID: Location Name: off of meadous trail Stand Size: <1 1-5 >5 Exposure, Actual °: Field Alliance name: Comments: reading from Comments: reading from	Other Surve GPS Name If Yes, ente If Yes or D Base / Proj UTMs: UTM Decimal degre Camera: (A) NE NW S Camera: (A) NE NW S CAMERA Camera: (A) NE NW S CAMERA CA	eyors: e <u>M</u> e er: Be bigitized, jected (c E ces: LAT e phone P SE SW shn + an(l, C tal Tree c	LG, AJ, JV Yhave Projected Projected Projected Projected EDist EDist Projected EDist Projected EDist Projected EDist Projected EDist Projected EDist Projected EDist Projected EDist Projected EDist EDist Projected EDist EDIST ED	? No / Yee ance (m): ID: or Decimal D br Decimal D Ss, Actual ° burnch g burnch g 3 Herb % cover	s / Eas 2 70 cgrees : : : //u S	Date: 4 - 8 / Digitized Inclinati GPS error 1 8 8 8 0° 1-5° Total Veg <u>20</u> taSpecies	(-) Retur on (°): (t) m./ PDO 3 3 1 7 View Radin > 5-259 	n? P <u>20</u> 1 15 <u>300 m</u> > 25 4,H) <u>L</u> % cover
Recorder: MP Waypoint ID: HV015 UID: Location Name: off of weadout trail Stand Size: <1 1-5 >5 Exposure, Actual °: Field Alliance name: Qw Comments: recording fro Strata Species T Q. Junatuckeri	Other Surve GPS Name If Yes, ente If Yes or D Base / Proj UTMs: UTM Decimal degre Camera: (N NE NW S Camera: (N N NE NW S Camera: (N N N N N N N N N N N N N N N N N N N	eyors: $e \ M \ \ell$ er: Bo bigitized, jected (c EE $e \ Phone \ P$	LG, AJ, JV <u>Phone</u> Projected earing (°): <u>Romn to EDista</u> , enter: Base Waypoint tircle one) Record either UTMs of <u>J</u> 4.7.4.9.6.8 hotos: Flat Variable Steepne ucher: in't see herbs other than 20 Regen Tree O Shrub a Species E. fuscionly turn	? No / Yes ance (m): i ID: or Decimal Do N 5_ LONG ss, Actual ° ss, Actual ° ss, Actual ° 13 Herb 13 Herb % cover 4	s / fas 2,70 cegrees :	Date: 4 - 8 / Digitized Inclinati GPS error 8 8 8 0° 1-5° Total Veg 30 taSpecies	(1-2.) Retur on (°): (ft) m./ PDO 3 3 1 7 View Radit > 5-25?	n? P 20 I Is <u>300 m</u> > 25 1,H) L % cover
Recorder: MP Waypoint ID: $H \lor O15$ UID: Location Name: off of neadous trail Stand Size: <1 1-5 (>5) Exposure, Actual °: Field Alliance name: Qvi Comments: recording from Strata Species + Q. Jubatuckering S A. glauca	Other Surve GPS Name If Yes, ente If Yes or D Base / Proj UTMs: UTM Decimal degre Camera: (N NE NW S Scus 3 c NE NW S Scus 3 c Non a dist	eyors: $e M \ell$ er: Be igitized, jected (c IE ρ phonc P SE SW Sh n + an(ℓ , C strata S S	LG, AJ, JV <u>#hane</u> Projected earing (°): <u>RomN to</u> EDista , enter: Base Waypoint incle one) Record either UTMs of <u>3 4 . 7 4 9 6 8</u> hotos:) Flat Variable Steepne <u>netter</u> : ian't see hebs other than <u>20 Regen Tree O Shrub</u> a Species <u>E. fasciantum</u> H. whispeli	? No / Yee ance (m): ID: Dr Decimal D N Ss, Actual ° Ss, Actual ° S	s / Eas 2 70 cgrees : : /u.S	Date: 4 - 8 / Digitized Inclinati GPS error 1 8 8 8 0° 1-5° Total Veg 30 taSpecies	(3-2.) Retur on (°): (t,) m./ PDO 3 3 1 7 View Radii ≥ 5-25? Exotics (L,N	n? P <u>20</u> Is <u>300 m</u> > 25 1,H) <u>L</u> % cover
Recorder: MP Waypoint ID: $H \lor O15$ UID: Location Name: off of meadows trail Stand Size: <1 1-5 >5 Exposure, Actual °: Field Alliance name: Qw Comments: rearding from % Cover: Conifer 3 Hardw Strata Species + Q. jubatuckeri S A. glauca + P. monoghylla	Other Surve GPS Name If Yes, ente If Yes, ente If Yes, ente If Yes or D Base / Proj UTMs: UTM Decimal degre Camera: () NE NW S UCUS () C Som a dist-	eyors: e <u>M</u> e pigitized, jected (c E ecs: LAT e phone P sec SW shn + an(l, C Strate Strate S	LG, AJ, JV Phave Projected earing (°): <u>Aronn to E</u> Dista , enter: Base Waypoint irrele one) Record either UTMs of <u>J 4 . 7 4 9 6 8</u> hotos: Flat Variable Steepne wether i init see hebs other then RCO Regen Tree O Shrub a Species E. fascionatum H. whippeli	? No / Yee ance (m): ID: or Decimal D SS, Actual ° 5_ LONG ss, Actual ° 5_ LONG ss, Actual ° 6 4 4 4 8 8 8 8 9 8 9 9 13 Herb 2 9 9 13 Herb 14 14 14 14 14 14 14 14 14 14 14 14 14	s / Eas 2 70 cgrees : //4 St Stra	Date: 4 - 8 / Digitized Inclination GPS error 1 8 8 8 0° 1-5° Total Veg 20 taSpecies	(-) Retur on (°): (t) m./ PDO 3 3 1 1 View Radiu > 5-25	n? P 20 Is <u>300 m</u> > 25 1,H) L % cover
RECON FIELD FORM	(March 6, 2019, with slope/aspect)							
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Recorder: MP	Other S	Survey	ors: LG	, AJ, JV	~		D	ate: 4-11-	22 Return	n? 🗆]
Waypoint ID:	GPS N	ame_	MP Pho	one	Projected?	No / Yes	/ Base /]	Digitized			1
HVOIT	If Yes,	enter:	Bear	ing (°): <u>19</u>	6 Distan	ce (m): 📺	35	Inclinatio	n (°): _17	, 	
UID:	If Yes	or Dig	itized, er	nter: Base	Waypoint I	D:					
Location Name:	Base /	Projec	cted (circl	e one) Record e	ither UTMs or l	Decimal Deg	grees	GPS error: f	t.(m) PDOP	7	
	UTMs: 1	UTME_			UTMN						
	Decimal	degrees	LAT 3	4.79	2014	LONG -	118	.83	+ 44 5		
Stand Size: <1 1-5 >5	Camera	a: 1941	Phot	ios: faci	ng sin	nth			View Radius	s	
Exposure, Actual º: 10	_ NE NV	W SE	SW I	Flat Variable	Steepness	Actual °:	26	0° 1-5°	> 5-25° (>	>25	
Field Alliance name: G	ricar	neri	n no	inclosa							
Comments: Hillis:人	e, swi	nb \$	in k	loom, I	lery ga	en 1	tgrou	tory.			
% Cover: Conifer Y Hard	twood 0	Total	Tree	Regen Tree	1 - Shrub 2	3 Herb	40 To	tal Veg 50	Exotics (L,M	, _{H)} M	×
Strata Species	%	cover	Strata	Species		% cover	Strata S	pecies	nda	% cover	
Diadouspoor	10	E		Shine	(pallese the	r		claytoni	n sp.	D	
9. rica mest nous		$\frac{2}{1}$	+	clymus				han not	reingratte	120	
Lupinus excust	aitus .			Lupinus	bicolor	2	+	Custento	spima.	2.0	3
Marah macrocorp	a 1	r		Coodium c	interm	a		<u> </u>		r	
				Iomaticum htric	ulatum						4
Recorder: MP	1-	Other	Survey	ors:				1	Date: 4-11-2) Ret	urn? 🗆
Waypoint ID:		CDS	Namo		Dr	voiacted?	No/V	es / Base /	Digitized	<u>~</u>	
HV 020		If Yes	s, enter:	Bearing	(°):	Dista	nce (m):	:	Inclinatio	n (°):	
UID:		If Yes	s or Dig	itized, enter:	Base W	aypoint l	ID:				
Location Name:		Base	/ Projec	cted (circle one	e) Record eithe	er UTMs or	Decimal I	Degrees	GPS error: f	t./ m./ PDC	OP
		UTMs	: UTME			UTMN	·				
	~	Decim	al degrees	:LAT <u>3 4</u>	.767	899	<u>lon</u>	<u>G-1</u>	8.871	090	16
Stand Size: <1 1-	5 >5	Came	ra:	Photos:					ii.	View Radi	us
Exposure, Actual °:		NE N	W SE	SW Flat	Variable	Steepness,	, Actual	•:	0° 1-5°	> 5-25°	> 25
Field Alliance name	:			× 3					che au	17	
Comments: Da	y 100	hing	5 501	n-the	. hn	desto	Ny 1	mos thy	non	- nativ gvd	r to
0.10	. 0		3 1	7						J	
% Cover: Conifer 2	7 Hardwo	ood	Total	Tree Re Strata Specie	gen Trees	Shrub	/ Herb % cover	20 Total Strata Spec	Veg 25 E ies	Exotics (L,M	<u>,H) M</u> % cover
Strata Species		170									
Strata Species					متعر أجرار		E		Sidele		r
Strata Species	tudees	70	15	54	simbrim retise	in	5	Gro	isinkia		r 15
R. John	tudaes		15	Sy: clar	jtonia parvi	i num flas	5	Br	omus s	16.	r 15
Strata Species Q. 5 dhn Tunip Ericonco	-tudaes	1	15 3	Sy: clan Poo	jtonia secund	tlass	5	Br	omus s	16.	r 15

Recorder: MD	Other Surveyo	rs: 16,45,	5V.	Date: 4-12-2	2 Return? 🛛
Waypoint ID:	GPS Name	mpphone I	Projected? (No/ Yes)	Base / Digitized	
HVORZ	If Yes, enter:	Bearing (°):	Distance (m):	Inclination	(°):
UID:	If Yes or Digi	tized, enter: Base	Waypoint ID:		
Location Name:	Base / Projec	ted (circle one) Record ei	ther UTMs or Decimal Deg	grees GPS error: ft	/m.)PDOP <u>5</u>
	UTMs: UTME		UTMN		_
	Decimal degrees	LAT 34.71	7467 LONG-	118.824	328
Stand Size: <1 1-5 >5	Camera: MP	₽ Photos: ? N)			View Radius 200 m
Exposure, Actual º: 180	NE NW SE	SW Flat Variable	Steepness, Actual °:	₽ 0° 1-5°	> 5-25° > 25
Field Alliance name:	. trident	ata many bu	e most app	oropriate, but	no perfect fit
Comments: E. Fasc.	. Gr. Na	useosa, A. tria	ten. all co-	dominate.	Flatish,
Sondy 10am. Po	it ches the	oughant vall	my where blo	nddeepod, ye	sion solution,
have higher .	and show	bs" are matur	e -> decadent.	18	T
% Cover: Conifer T Har	dwood - Tota	l Tree — Regen Tree	Shrub 22 Herb	Total Veg 25	Exotics (L.M.H)
Strata Species	% cover	Strata Species	% cover	Strata Species	% cover
Eriogonum Faiscicula	tum 8	Gutterz	ia r	Bromus	SPP. <1
Erichmesia nauslosa	, T	Junipe	r r	Marah	r
Artemes. a	tata 7	crypion	thasp. <1	eriodic crass	ifolium r
H. whipple: on e	dges near	Juniper. (r))	s treas	

RECON FIELD FORM (March 6, 2019, with slope/aspect)

.

Recor	der: MP	Other Surve	eyors:	46		Date:	4-12-22 Return?	
Wayp	oint ID: 4V O & 3	GPS Name If Yes, ente	r: Be	Projected aring (°): Dista	? No / Y ance (m)	(es / Base / Digitiz): Inclin	zed nation (°):	
UID:		If Yes or D	igitized,	enter: Base Waypoint	ID:		ъ.,	
Locat	ion Name:	Base / Proj	ected (ci	rcle one) Record either UTMs o	r Decimal	Degrees GPS er	TOT: ft./ m./ PDOP	
		UTMs: UTM	E	UTM	N			
		Decimal degre	es: LAT	34.73107	5 LON	1G- <u>118.8</u>	05594	
Stand	Size: <1 1-5 >5	Camera:	Ph	notos: N			View Radius	_
Expos	ure, Actual º: <u>25</u>	NE NW S	E SW	Flat Variable Steepness	s, Actual	°: 26 0° 1-	5° > 5-25° > 25	
Field	Alliance name:							
Comn	nents: Hard to	character	ife	this hillside.	- Q.	sts arey o	n me edge,	,
All	ance not 0	brionse		re i nagery - on	ly m	ap ast.	an edge.	
% Cov	er: Conifer Hardw	rood - Tot	al Tree –	Regen Tree — Shrub	LO Her	b 4 Total Veg 2	3 Exotics (L,M,H) _	
Strata	Species	% cover	Strata	Species	% cover	Strata Species	iga % 00	ver
	Q John. Thekeri	4		Salvia mellipera	- 41	Ceant	nus 50? (1)	
	A. glauca	5		Eric . linearifolia	r	<u>u</u>		
	Adenostema Fasc.	2		Pour seconda	4	H. un.	iple. r	
	4 mudra viridis	2		A. tridentata	٢	E. Fascic	ulatum 4	

E i den

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RECON FIELD FORM (March 6, 2019, with slope/aspect)

÷.

Waypoint ID: HV ひみり	GPS Name If Yes, enter:	Proje Bearing (°):	cted? No /Yes	/ Base / Digi	<u>9-13-22</u> Return? ized	
UID:	If Yes or Digit	ized, enter: Base Way	point ID:	Incl	ination (°):	
Location Name:	Base / Project	ed (circle one) Record either U	TMs or Decimal De	grees GPS	error: ft./ m./ PDOP	
rear # 79	UTMs: UTME		UTMN			
	Decimal degrees: 1	LAT 34.7618	98 LONG-	118.8	50894	
Stand Size: <1 (-5) >5	Camera: MP	Photos:			View Radius	
Field Alliance name: Pin Comments: Steep s to when 2en	ita ID.	ite #79. Piñon Photo taken Fro	is consister m #79	nt. Leah	is creeking	
Field Alliance name: Pin Comments: Steep s to War 200 % Cover: Conifer 4 Hardy Strata [Species	ves manophy pe ofposi ita ID vood Total T 1% cover 18	ite #79. Piñon Photo taken fro Tree Regen Tree	is consister vn 479 Shrub 17 Herb	NT. Leah	13 cheeking 38 Exotics (L,M,H)	L_
Field Alliance name: Pin Comments: Speep s la Wen 200 % Cover: Conifer 4 Hardw Strata Species	vood Total T	ite #79. fixon Photo taken fro Free Regen Tree : Strata Species	i > consista M # 79 Shrub 17 Herb % cover	NT, Leah 20 Total Veg StrataSpecies	13 cheeking 38 Exotics (L,M,H)	L_ % cover
Field Alliance name: Pin Comments: Steep sta Wen2en % Cover: Conifer 4 Hardy Strata Species P, Mon8 pty 1/4	vood Total T vood Total T - 4	11. H79. Piñon Photo taken Tro <u>iree RegenTree</u> Strata Species E. Linearito	i > consiste m # 79 Shrub 17 Herb % cover Lia 1	NT, Leah 20 Total Veg StrataSpecies	13 cheeking 38 Exotics (L,M,H)	L % cover
Field Alliance name: Pin Comments: Steep sta Wen2on % Cover: Conifer 4 Hards Strata Species P, mono phy 1 la R. John - Tue	vood Total T vood Total T % cover \$ - 4 - 4 - 10	114 #79. Piñon Photo taken fro Tree Regen Tree Strata Species E. Linearifo J. california	i) consiste m # 79 Shrub 17 Herb % cover lia 1 eno r	NT. Leah	13 cheeking 38 Exotics (L,M,H)	<u>L</u> % cover

Record	ler: M.P	Other Surve	yors:	,		Date:	4-13-22 Return?	
Wayp } UID:	oint ID: イV 0 2 ち	GPS Name If Yes, enter If Yes or Di	: Bea gitized, e	Projected ring (°): Dist enter: Base Waypoin	l? No / Yes tance (m): t ID:	/ Base / Dig Inc	itized clination (°):	
Locat	ion Name:	Base / Proje UTMs: UTME	ected (cire	cle one) Record either UTMs	or Decimal De	grees GPS	S error: ft./ m./ PDOP _	
		Decimal degree	s: LAT	34.76600	LONG	118	.860556	
Stand	Size: 1 1-5 >5	Camera:	Pho	otos: bio from poin	nt, faci	~ SE >	SW View Radius	
Expos	ure, Actual º: <u>120</u>	NE NW É	€ sw	Flat Variable Steepno	ess, Actual °:	0°	(1-5°) > 5-25° > 2	25
Field A	Alliance name: Cott	tonwood	stend	5			L v	
Comm	y willows.	shoutss	ripour from	ian area. Spi alijacent hills	ing fed	P. man	tion words, af	èn 1
% Cov	er: Conifer Hardy	wood Tot	al Tree 🖉	S Regen Tree Shrut	15 Herb	Total V	eg 22 Exotics (L.M.H	12
Strata	Species	% cover	Strata	Species	% cover	Strata Specie	s	% cover
	P. Fremanti,	5		A. tridenteda	5	L.	supspicator derindata	<u> < ا</u>
	salix sp. (c) +0		A. pamer:	21	4.	nanseosa	<1
	Jmus sp.	1		A. glanca	21			



RECON FIELD FORM (March 6, 2019, with slope/aspect)

					D	ate: 4-15-22 Return? 0	
Recorder: MP	Other Surveyo	rs: L(5			Dt_thingd	
Waypoint ID:	GPS Name	Bearin	Projected? () g (°): Distanc	ø / Yes / e (m):	Base / I	Inclination (°):	
	If Yes or Digi	tized, ente	er: Base Waypoint ID one) Record either UTMs or D	: ecimal Degr	rees	GPS error: ft./ m./ PDOP	-
Location Name:	UTMs: UTME		4759123	LONG -	118	3.898613	
	Decimal degrees:	LAT	211	- A.)		View Radius	
Stand Size: <1 1-5 5	Camera: pp	Photos			2	no (5°) > 5-25° > 25	
Exposure, Actual º: 170	NE NW SE) SW Fl	at Variable Steepness,	Actual °:	<u> </u>	0 1-3 - 3-23 - 22	
Field Alliance name:						WALLES	
Comments: Gently rhoughent value	sloping y + Isnt	valle alwa road	sy. Alliances +	smu inay	resy.	oravelly, Yucca Esclusizia cal. 1	-
mixed in an ou	STOLE THE			1	a T	otal Veg 22 Exotics (L.M.H)	L
% Cover: Conifer & Han	lwood Total	Tree	Regen Tree Shrub	% cover	Strata	Species %	cover
Strata Species	% cover	Strata S	<u (yone)<="" ai="" per="" td=""><td>5</td><td>11</td><td>Bronnis tectoring</td><td>21</td></u>	5	11	Bronnis tectoring	21
S Elinearito	tia o	н	Lastronia Premontii	1	Ą	Stipa pulchra	r
5 E. FASCILINIA	5	H	lavia alendalosa	21	н	Amsinkin tespelata	1
> 2 coopes		н	5 cin tainm	<1	H	Plagiobolicys arizonica	r
5 Entangeos	4	(arety opene calim			tred midvein on und	essil
J. UNICITZIN			*Ilagenerolion	·		Date: ?	

*

For Office Use: Final database #: Final vegetation type: Association	
circle: Relevé or RA	
I. LOCATIONAL/ENVIRONMENTAL DESCRIPTION Patchere #: Date: Name of recorder:	
Database #. $H - H - 22$ Other surveyors: $Lb - JV - LD$	1
HVD27 UID: Location Name:	1
GPS name: MP Phanel For Relevé only: Bearing°, left axis at ID point of Long / Short side UTME UTMN Zone: 11 NAD83 GPS error: ft/m/PDOP Disclosure: LAT \sim	1
CPS within stand? Yes / No) If No, cite from GPS to stand: distance (m) 6 bearing 9 40 inclination 9 6	3
and record: Base point ID See And maps Projected UTMs: UTME UTMN	د.
Camera Name: MP Phone Cardinal photos at ID point: New across valley	
Other photos:	-
Stand Size (acres): <1, (1-5) >5 Plot Area (m ²): 100 / Plot Dimensions x m RA Radius m Exposure, Actual °:	
Fopography: Macro: top upper mid lower bottom Micro: convex flat concave undulating Geology code: Soil Texture code: _ まんんよろ Upland or Wetland/Riparian (circle one)	
% Surface cover: (Incl. outcrops) (>60cm diam) (25-60cm) (7.5-25cm) (2mm-7.5cm) (Incl sand, mud) H20: BA Stems: ζ Litter: 5 Bedrock: Ô Boulder: Stone: ٢ Cobble: 2 Gravel: 3 Fines: 20 =100%	
% Current year bioturbation Past bioturbation present? Yes / No % Hoof punch Fire evidence: Yes / No (circle one) If yes, describe in Site history section, including date of fire, if known.	
ite history, stand age, comments: * Chreck date of last Fire, 2015 - AJ	
Steep slopet with Flametphant will spe will we've seen so many, burned snagt of some oak, probably QJT. very direct mix, mique. Not since how will stand extende ones ridge - see notes in field maps. Road cuts tworph stand, wash / availage below - how more yerba Sonta, Sonth facing slope to the north is Eriogonum fasciculation alliance	
isturbance code / Intensity (L,M,H): have except, road / "Other" / "Other" /	
ree DBH : $\underline{T1}$ (<1" dbh), $\underline{T2}$ (1-6" dbh), $\underline{T3}$ (6-11" dbh), $\underline{T4}$ (11-24" dbh), $\underline{T5}$ (>24" dbh), $\underline{T6}$ multi-layered (T3 or T4 layer under T5, >60% cover) arub: $\underline{S1}$ seedling (<3 yr. old), $\underline{S2}$ young (>% dead), $\underline{S3}$ mature (1-25% dead), $\underline{S4}$ decadent (>25% dead) erbaceous: $\underline{H1}$ (>12" plant ht.), $\underline{H2}$ (>12" ht.) esert Riparian Tree/Shrub: 1 (<2ft. stem ht.), 2 (2-10ft. ht.), 3 (10-20ft. ht.), 4 (>20ft. ht.) esert Palm/Joshua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 (>6" diam.)	
INITERIALISTICS OF STAND	1
eld-assessed vegetation Alliance name: Ceanothus greggii - Fremanto perhancel.	
old assessed Association name (ontional): Fremen to den Arman and for nichum - C. artai: Area C.	-1
jacent Alliances/direction: 6 fasc. to north on sparse Storing slope 1	-
nfidence in Alliance identification: L M (H) Explain:	_

	Databa	se #: _ HV027	SPECII	es s	HEEI
	IV. VE	GETATION DESCRIPTION			
				%	NonVasc cover: Total % Vasc Veg cover:
	% Cove	<u>r</u> - Conifer tree / Hardwood tree: <u>/ ۲</u>	_ Rege	nera	ting Tree: Shrub: 1 Herbaceous:
	Height (Class - Conifer tree / Hardwood tree:/	Rege	nera n. 6	=10-15m, 7=15-20m, 8=20-35m, 9=35-50m, 10=>50m
	He	Structure cotogories: T=Tree A = SAnli	$\frac{1}{10} = \frac{1}{10}$		ng, S = Shrub, H= Herb, N= Non-vascular
		% Cover Intervals for reference: r = trace, += -	<1%, 1-5	%,	>5-15%, >15-25%, >25-50%, >50-75%, >75%
~	Stratum	Species	% cover	С	Final species determination
ire S	S	Fremontodendion Californicum	+		
overs")	5	Eriodityon crassifolium	2		
C	S	Malocothomnus forciculatum	111 <u>-</u>		
	S	Arctostaphylos glauca			
	5	Artemisia tridentate	21		
	5	bricameria nouseda			
	J C	Kackiella Jerneta	r		1
	5	Company betwhiles	r		
	S	Ecioconum fosciculatum varial	1		
	Ц	Elvmus condensatus	<1		
	H	Poo secunda	8		
	H	Bromus rubens	٢		
	H	Penstemon grinnellic	7		
	H	Epdivm cicutarium	ſ		
	5	Ephedra viridus	r		
	PI-	Solanum xantu	r		
	5	Kibesquerce to rum	r		
	T	Quercus john-FUCKer	r,		
	9	Uryptantia sp.			and Administration (1998). The last of the second
					λ
2					
					×
	Unusual	species:			

Combined Vegetation Rapid Assessment and Relevé Field Form (Revised March 27, 2018)

r Office Use:	Final database #:	Final vegetation type:	Association
OCUTIONAL	ENVIRONMENTAL	DESCRIPTION	circle: Releve or KA
LOCATIONAL	Date:	Name of record	ler: JV
atabase #.	04/11/	2022 Other surveyor	s: AH, LG, MP
	IIID: 7	Location Name	: HUSURA
DE name		For Releve	é only: Bearing°, left axis at ID point of Long / Short side
	 1/T	MN	Zone: 11 NAD83 GPS error: ft./ m./ PDOP
TME	117 34 7	69194	LONG 1 8.871567
ecimal degrees:			Histance (m) bearing ° inclination °
GPS within star	id? Yes No If No	No, cite from GPS to stand.	UTMN
and record: Bas	e point ID	Projected UTW	
Camera Name: 🛉	J Phone Cardina	I photos at ID point: N	ESW
)ther photos:			N + Dimensions x m RA Radius/06 m
Stand Size (acres): <1, (1-5, >5	Plot Area (m ²): 100 /	Plot Dimensions m $x_{}$ m $x_{}$ = 25
Exposure, Actua	1 : 206 NE NW	SE (SW) Flat Varial	ble Steepness, Actual : 5+0 0 10 0 20
	langer ton unner	mid lower bottom	Micro: convex flat concave undulating
Topography: N	Taero: top upper Soil To	exture code:	Upland or Wetland/Riparian (circle one)
Geology code:		(Incl_outerops) (>60cm diar	m) (25-60cm) (7.5-25cm) (2mm-7.5cm) (Incl sand, mud)
% Surface cover	: amouto Litter: []	Bedrock: O Boulder	Stone: Cobble: Gravel: Fines: 85 =100%
$H_20: \bigcirc BASt$		Best bioturbation prese	nt? Yes / No % Hoof punch _
% Current year	bioturbation	If yes describe in Site histo	bry section, including date of fire, if known.
Site history, star	nd age, comments: I	in a relatively flat	how W/ lots of riding & surrounded by
Site history, star v a k star	nd age, comments: T	in a relatively flat	how I w/ lots of riding & surrounded by
Site history, stan	nd age, comments: آ این de / Intensity (L,M,H	D: 05/M OHV/H	bout w/ lots of riding a surrounded by
Disturbance co	de / Intensity (L,M,H DESCRIPTION	D: 05/M OHV/H	bout w/ lots of riding a surrounded by
Disturbance co II. HABITAT	dage, comments: de / Intensity (L,M,H DESCRIPTION (<1" dbh), T2 (1-6" db	n: <u>05/M</u> <u>oHV/H</u> h), <u>T3</u> (6-11" dbh), <u>T4</u> (11-2	buil w/ lots of riding & Surrounded by
Disturbance co II. HABITAT	dage, comments: de / Intensity (L,M,H DESCRIPTION .(<1" dbh), <u>12</u> (1-6" db lling (<3 yr. old). S2 y	n): <u>05/M</u> <u>oHV/H</u> h), <u>T3</u> (6-11" dbh), <u>T4</u> (11-2 oung (<1% dead), <u>S3</u> matur	buil w/ lots of riding & Surrounded by
Disturbance co II. HABITAT Tree DBH : <u>TI</u> Shrub: <u>S1</u> see	de / Intensity (L,M,H DESCRIPTION .(<1" dbh), <u>T2</u> (1-6" db dling.(3yr. old), <u>S2</u> y	n a relatively flat): <u>05/M</u> <u>oHV/H</u> h), <u>T3</u> (6-11" dbh), <u>T4</u> (11-2 oung (<1% dead), <u>\$3</u> matur >12" ht)	bul w/ lots of riding & Surrounded by
Disturbance co II. HABITAT Tree DBH : TI Shrub: <u>S1</u> secu Herbaceous: <u>H</u>	de / Intensity (L,M,H DESCRIPTION .(<1" dbh), <u>T2</u> (1-6" db dling.(<3 yr. old), <u>S2</u> y [1 (<12" plant hl.), <u>H2</u> (<2) Trees/Byruh: 1 (<2)	n: <u>05/M</u> <u>0HV/H</u> h): <u>13</u> (6-11" dbh), <u>T4</u> (11-2 oung (<1% dead), <u>53</u> matur >12" ht) ft stem ht.), 2 (2-10ft ht.), 3	<u>by J W lots of riding & Surrounded by</u> <u>1</u> <u>1</u> <u></u>
Disturbance co II. HABITAT Shrub: <u>S1</u> secent Herbaceous: <u>F1</u> Desert Riparia	da ge, comments: de / Intensity (L,M,H DESCRIPTION .(<1" dbh), <u>T2</u> (1-6" db dling.(<3 yr. old), <u>S2</u> y [1 (<12" plant ht), <u>H2</u> (~ n Tree/Shrub: 1 (<2 sebua Tree: 1 (<1 ~): <u>05/M</u> <u>oHV/H</u> h). <u>T3</u> (6-11" dbh), <u>T4</u> (11-7 oung (<1% dead), <u>S3</u> matur >12" ht) ft stem ht.), 2 (2-10ft. ht.), 3 base diameter), 2 (1.5-6" dia	<u>houl w/ lots of riding & Surrounded by</u> <u>//</u>
Disturbance co II. HABITAT Shrub: <u>S1</u> secent Herbaceous: <u>E1</u> Desert Riparia Desert Palm/J	da ge, comments: de / Intensity (L,M,H DESCRIPTION . (<1" dbh), <u>T2</u> (1-6" db dling (<3 yr. old), <u>S2</u> y [1 (<12" plant ht), <u>H2</u> (oshua Tree: 1 (<1.5" ETATION OF STAM): <u>05/M</u> <u>oHV/H</u> h). <u>T3</u> (6-11" dbh), <u>T4</u> (11-7 roung (<1% dead), <u>\$3</u> matur >12" ht.) ft. stem ht.), 2 (2-10ft. ht.), 3 base diameter), 2 (1.5-6" dia ND	houl w/ lots of riding & Surrounded by ///
Disturbance co II. HABITAT Shrub: <u>S1</u> secent Herbaceous: <u>E1</u> Desert Riparia Desert Palm/J III. INTERPR	de / Intensity (L,M,H DESCRIPTION . (<1" dbh), <u>T2</u> (1-6" db dling (<3 yr. old), <u>S2</u> y <u>11</u> (<12" plant ht), <u>H2</u> (oshua Tree: 1 (<1.5" ETATION OF STAN): <u>05/M</u> <u>oHV/H</u> h). <u>T3</u> (6-11" dbh), <u>T4</u> (11-7 voung <1% dead), <u>\$3</u> matur >12" ht.) ft stem ht.), 2 (2-10ft. ht.), 3 base diameter), 2 (1.5-6" dia <u>E</u> ∫(Comence	houl w/ lots of riding & Surrounded by //
Disturbance co II. HABITAT I Tree DBH : <u>TI</u> Shrub: <u>SI</u> seet Herbaceous: <u>H</u> Desert Riparia Desert Palm/J III. INTERPR Field-assessed	da ge, comments: da ge, comments: de / Intensity (L,M,H DESCRIPTION . (<1" dbh), <u>T2</u> (1-6" db dling (<3 yr old), <u>S2</u> y <u>[1</u> (<12" plant ht), <u>H2</u> (: n Tree/Shrub: 1 (<2 sohua Tree: 1 (<1.5" <u>ETATION OF STAN</u> vegetation Alliance r	n: <u>05/M</u> <u>oHV/H</u> h), <u>T3</u> (6-11" dbh), <u>T4</u> (11-2 oung (<1% dead), <u>53</u> matur >12" ht.) ft. stem ht.), 2 (2-10ft. ht.), 3 base diameter), 2 (1.5-6" dia XD Ericamena mame: Nauscasa da	<u>buil w/ lots of riding & Surrounded by</u> <u>//</u> "Other"/ 24" dbh), <u>T5</u> (>24" dbh), <u>T6</u> multi-layered (T3 or T4 layer under T5, >60% cover re (1-25% dead), <u>S4</u> decadent (>25% dead) 3 (10-20ft. ht.), 4 (>20ft. ht.) m.), 3 (>6" diam.) Alliance
Disturbance co II. HABITAT Tree DBH : <u>TI</u> Shrub: <u>SI</u> seer Herbaceous: <u>H</u> Desert Riparia Desert Palm/J <u>III. INTERPR</u> Field-assessed Eield-assessed	da age, comments: da age, comments: de / Intensity (L,M,H DESCRIPTION . (<1" dbh), <u>T2</u> (1-6" db dling (<3 yr. old), <u>S2</u> y [1 (<12" plant h1), <u>H2</u> (: oshua Tree: 1 (<1.5" <u>ETATION OF STAN</u> vegetation Alliance r Association name (o	$\frac{0.5}{M} = 0.0000000000000000000000000000000000$	<u>howl w/ lots of riding & Surrounded by</u> <u>//</u>
Disturbance co II. HABITAT I Tree DBH : <u>TI</u> Shrub: <u>SI</u> seet Herbaceous: <u>H</u> Desert Riparia Desert Riparia Desert Palm/J <u>III. INTERPR</u> Field-assessed Field-assessed	da age, comments: da age, comments: de / Intensity (L,M,H DESCRIPTION . (<1" dbh), <u>T2</u> (1-6" db dling (<3 yr. old), <u>S2</u> y [1 (<12" plant ht), <u>H2</u> (: nn Tree/Shrub: 1 (<2 oshua Tree: 1 (<1.5" <u>ETATION OF STAN</u> vegetation Alliance I Association name (o unces/direction:	The a celetively flat $(): 05/M_0HV/H$ $(): 05/M_0HV/H$ (11-2) (11-2) (12) $(11-2)(12)$ $(12)(12)$ (12) $(12)(12)$ (12) $(12)(12)$ (12) $(12)(12)$ (12) $(12)(12)$ (12) $(12)(12)$ (12) $(12)(12)$ (12) $(12)(12)$ (12) $(12)(12)$ (12) $(12)(12)$ (12) $(12)(12)$ (12) (12) $(12)(12)$ (12) (12) (12) $(12)(12)$ (12) $(12$	<u>buil w/ lots of riding & Surrounded by</u> <u>//</u>
Disturbance co II. HABITAT I Tree DBH : <u>TI</u> Shrub: <u>SI</u> see Herbaceous: <u>H</u> Desert Riparia Desert Palm/J III. INTERPR Field-assessed Field-assessed Adjacent Allia	da age, comments: da age, comments: de / Intensity (L,M,H DESCRIPTION . (<1" dbh), <u>T2</u> (1-6" db dling (<3 yr old), <u>S2</u> y <u>I1</u> (<12" plant ht), <u>H2</u> (: in Tree/Shrub: 1 (<2 oshua Tree: 1 (<1.5" <u>ETATION OF STAN</u> vegetation Alliance r Association name (o inces/direction:	The a celetively flat (1): 05/M 0HV/H (1): 05/M 0HV/H (1): 017 (6-11" dbh), T4 (11-2 oung (<1% dead), 53 mature (1): 017 (2): 017 ht.), 3 base diameter), 2 (1.5-6" dia (1): 017 (2): 017 ht.), 3 base diameter), 2 (1.5-6" dia (1): 017 (2): 017 ht.), 3 base diameter), 2 (1.5-6" dia (1): 017 (2): 017 ht.), 3 (1): 017 (2): 017 (2): 017 ht.), 3 base diameter), 2 (1.5-6" dia (1): 017 (2	how with late of riding & Surrounded by
Disturbance co II. HABITAT I Tree DBH : TI Shrub: S1 see Herbaceous: E Desert Riparia Desert Palm/J III. INTERPR Field-assessed Adjacent Allia Confidence in	de / Intensity (L,M,H de / Intensity (L,M,H DESCRIPTION .(<1" dbh), <u>T2</u> (1-6" db dling (<3 yr. old), <u>S2</u> y <u>I1</u> (<12" plant ht), <u>H2</u> (: an Tree/Shrub: 1 (<2 oshua Tree: 1 (<1.5" <u>ETATION OF STAN</u> vegetation Alliance r Association name (o ances/direction: 	The control of the c	buil w/ lots of riding & Surrounded by
Disturbance co II. HABITAT I Shrub: S1 see Herbaceous: II Desert Riparia Desert Palm/J III. INTERPR Field-assessed Adjacent Allii Confidence in Phenology (E	de / Intensity (L,M,H de / Intensity (L,M,H DESCRIPTION (<1" dbh), <u>T2</u> (1-6" db dling (<3 yr. old), <u>S2</u> y <u>I1</u> (<12" plant ht), <u>H2</u> (> oshua Tree: 1 (<1.5" ETATION OF STAN vegetation Alliance I Association name (o ances/direction: Alliance identificatio p,L); Herb § Shru	i): $05/M$ off V/ H h): $13 (6-11" dbh)$, $14 (11-7) dbh)$, $13 (6-11" dbh)$, $14 (11-7) dbh)$, $14 (11-7) dbh)$, $14 (11-7) dbh)$, $12" ht.) int stem ht.), 2 (2-10 ft, ht.), 3base diameter), 2 (1.5-6" dia ND Ericamente name: Nautosa a ptional): pon: L M H Explain ab f Tree X Other$	baul w/ lots of riding & Stricounded by

Combined Vegetation	Rapid	Assessment	and	Relevé	Field	Form
	(Revised	d March 27, 2018)				
	SPEC	CIES SHEET				

AN

M

)ataba	se #:	SPECI	28.81	HEEI
V. VEC	GETATION DESCRIPTION			
<mark>% Cove</mark> Height C Hei	r - Conifer tree / Hardwood tree: // Class - Conifer tree / Hardwood tree: //	Rege Rege n, 5=5-10	% nerat merat m, 6=	NonVasc cover: O Total % Vasc Veg cover: 55 ting Tree: Shrub: Herbaceous:
	Stratum categories: T=Tree, A = SApli % Cover Intervals for reference: r = trace, + =	ing, E = SI <1%, 1-5	Eedlin i%, :	ng, S = Shrub, H= Herb, N= Non-vascular >5-15%, >15-25%, >25-50%, >50-75%, >75%
Stratum	Species	% cover	C	Final species determination
Ś	Ericameria maloseosa	14	T	Juniperus californicus <1
5	Ericanderia linearifaliza	9		1
9	Ericametia Cooperi	2)	S	Hespersylucca whipple: (
S	Peritoma automa	0		
SI	Erinoonum Sp. roseum	2		
S	Eriogonum forcicalatum pulifolium	(
14	A misinkia tessellata	13	H	Acmispon Sp (
H	Frodium cientorium	2	24	Pla socurada r
H	Astronalus danlassi	C		
H	Montaplia Veatchiana	4	-	
M	Oravetanthe Se	6		-
Ы	Consthements & locinatolia	21		
H	becaring sinnet	1		
H	Bonne tectorin)	Y		
1	Brownie cuberos Soft.	14		
11	Die la ladeuna Casitest	C		
A	the show SP: (are and)	V		Sacurat
1-+	Hurcheville in the other	21	1	
	SIGNED DIT TE ATTOMANT	r	+	
H .t	Phaselis a	(
	F havona sp			1
			-	
			+	
			+	
	8			
				*
			-	
	P			X
Unusua	al species:			

Plot 45 - sharbs = Early - set rid of association

Combined Vegetation Rapid Assessment and Relevé Field Form (Revised March 27, 2018)

	Final database #:	Final vegetation type:	Association
LOCATIONAL	ENVIRONMENTAL	DESCRIPTION	circle: Keleve of ava
atabase #:	Date:	Name of recorde	r: 5V
	04/12	V22 Other surveyors	FIH, LG, MIP
	UID: 14	Location Name:	HUSVRA Short side
PS name: TME		For Relevé	Zone: 11 NAD83 GPS error: ft./ m./ PDOP LONG 8 8 2 6 2 1
ecimal degrees:	LAT <u></u> . <u></u>	2 1 3 1	stance (m) bearing ° inclination °
GPS within star	nd? Yes / No If N	lo, cite from GPS to stand. un	UTMN
and record: Bas	e point ID	Projected UTMS	
Camera Name: }	AH Phone Cardina	photos at 1D point.	
Other photos: Stand Size (acres): <1, 1-5, >5 NE NW	Plot Area (m ²): 100 / SE SW Flat Variabi	Plot Dimensions x m RA Radius ≤0 m (c) Stcepness, Actual °: 0° 1-5° >25
Exposure, Actua Fopography: M	Aacro: top upper	mid lower bottom	Micro: convex flat concave undulating Upland or Wetland/Riparian (circle one)
Geology code:	: ame: 3 Litter: 0	(Incl. outcrops) (>60cm diam) Bedrock:	(25-60cm) (7.5-25cm) (2mm-7.5cm) (Incl sand, mud) ⊘ Stone: / Cobble: Gravel: ↓/⊙ Fines: 5 ↓ =100%
H20: D BA St	cino, J Linter, X	Past bioturbation presen	t? Yes)/ No % Hoof punch
% Current year	bioturbation	If yes, describe in Site histor	y section, including date of fire, if known.
Fire evidence:	I Co / HO (Chere one)		
Site history, star	nd age, comments:	historic fine	in the antipation
Site history, star undu lating	hills proved p	historic fine 10t center but cl	namise & scrub oaks are the edge
Site history, star undu lating	nd age, comments:) hills pround p de / Intensity (L,M,H	istoric fire lot center but d	iamise & scrub oales are the edge
Site history, star undu lating S Disturbance co II. HABITAT	nd age, comments:) hills proved p nde / Intensity (L,M,H DESCRIPTION	istoric fire lot center but d	inamise & scrub oales are the edge
Disturbance co I. HABITAT Tree DBH : <u>T</u> I Shrub: <u>SI</u> see Herbaceous: <u>F</u> Desert Palm/I	and age, comments: hill ocourd ρ and ρ a	historic fre 10t center but cl 10t center but center but cl 10t center but center but cl 10t center but cen	<u>I</u>
Disturbance co I. HABITAT Tree DBH : <u>TI</u> Shrub: <u>SI</u> see Herbaceous: <u>F</u> Desert PalmJJ UL INTERDAT	nd age, comments: hill ocourd p de / Intensity (L,M,H DESCRIPTION I (<1" dbh), T2 (1-6" db dling (<3 yr. old), S2 y II (<12" plant ht.), H2 (2 an Tree/Shrub: 1 (<2 oshua Tree: 1 (<1.5" ETATION OF STAN	historic fre 10t center but Cl 10t center but Cl 10t $Center but Cl10t Center but Cl10t Center but Cl10t Cl10t$	<u>I</u>
Disturbance co I. HABITAT Tree DBH : <u>TI</u> Shrub: <u>SI</u> see Herbaceous: <u>F</u> Desert Riparia Desert Palm/J III. INTERPR	nd age, comments:) h)) orband p de / Intensity (L,M,H DESCRIPTION (<1" dbh), <u>T2</u> (1-6" db dling (<3 yr. old), <u>S2</u> y <u>11</u> (<12" plant ht.), <u>H2</u> (: an Tree/Shrub: 1 (<2 oshua Tree: 1 (<1.5" RETATION OF STAN	historic fre 10t center but Cl 10t center but Cl 10t $Center but Cl10t Center but Cl10t Center but Cl10t Cl10t$	<u>I</u>
Disturbance co I. HABITAT Tree DBH : <u>T</u> I Shrub: <u>SI</u> see Herbaceous: <u>F</u> Desert Riparia Desert Palm/J III. INTERPE Field-assessed Field-assessed	nd age, comments: h) b) ocoord p ode / Intensity (L,M,H DESCRIPTION (<1" dbh), T2 (1-6" db dling (<3 yr. old), S2 y f1 (<12" plant ht.), H2 (2 oshua Tree: 1 (<1.5" RETATION OF STAN I vegetation Alliance r I Association name (or ances/direction:	historic fre 10t center but d 10t center but d 11t center but	<u>I</u>
Sjite history, star undulating Disturbance co II. HABITAT Tree DBH : <u>T</u> I Shrub: <u>SI</u> see Herbaceous: <u>F</u> Desert Riparia Desert PalmJJ III. INTERPE Field-assessed Field-assessed Adjacent Allia	nd age, comments:	historic fre 10t center but d 10t center but	<u>I</u>
Sjite history, star undulating Disturbance co II. HABITAT Tree DBH : <u>T</u> I Shrub: <u>SI</u> see Herbaceous: <u>F</u> Desert Riparia Desert PalmJJ III. INTERPR Field-assessed Field-assessed Adjacent Allii Confidence in	nd age, comments: h) b) ocoord p ode / Intensity (L,M,H DESCRIPTION L (<1" dbh), T2 (1-6" db dling (<3 yr. old), S2 y H1 (<12" plant ht.) H2 (2 oshua Tree: 1 (<1.5" RETATION OF STAN I vegetation Alliance r I Association name (or ances/direction: of the state of the	historic fre 10t center but d 10t center but	<u>I</u>

V. VEC	GETATION DESCRIPTION			
<mark>% Cove</mark> Height (Hei	r - Conifer tree / Hardwood tree:/ Class - Conifer tree / Hardwood tree:/ ght classes: 1=<1/2m, 2=1/2-1m, 3=1-2m, 4=2-5	Rege Rege m, 5=5-10	% nera nera m, 6	NonVasc cover: ① Total % Vasc Veg cover: 25 ting Tree: \screwedge Shrub: \frac{24}{2} Herbaceous: \screwedge ting Tree: \frac{2}{2} Shrub: \frac{24}{2} Herbaceous: \screwedge =10-15m, 7=15-20m, 8=20-35m, 9=35-50m, 10=>50m
	Stratum categories: T=Tree, A = SAp	bling, $E = SI = <1\%$, 1-5	Eedli %,	ng, S = Shrub, H= Herb, N= Non-vascular >5-15%, >15-25%, >25-50%, >50-75%, >75%
Stratum	Species	% cover	C	Final species determination
3	Eripponum fasciculatum	15		
5	Hespennikca Whieplei	5		
5	Friedritum crassifilium	2		
3	Exiconteria Linearifalia	1		
S	Rushia stansburriana	1		
S	Arminom glaber	4		
~	Suispon di-			
L	Dicholastemma capitata	C		
11	Chappactis alubrivscula	C		
1	Uropappus lindlowi	(
H	Salvia columbarae	r		
H	Browne rubers	(
4	Frain Cicutarium	(
4	Euphyphia 50	\langle		
11	Cruptantha SP	(
L	I omativn majavense	V		
Н	Leotosure bigelovii	(
14	Melica imperfecta	(
L	Por socieda	1		
7.7				
-S	Quercus inhotuckerii	Г		
T	Juppenis Californicus	(
	A A A A A A A A A A A A A A A A A A A			
	-			
			-	

of Office oser			Association	ainala: Relevé or (RA)
LOCATIONAL	ENVIRONMENTAL	DESCRIPTION		circle: Keleve of the
atabase #:	Date:	Name of record	er: AH	
	4-12-	CC Other surveyor	S: JU, LG, MP	
	UID: 8	Location Name	: HUSURA	
IPS name: <u>59</u> TME	CALAXY	For Releve	Sonly: Bearing°, left axis at Zone: 11 NAI	ID point of Long / Short side 083 GPS error: ft./ m./ PDOP 0 Z 4 8 6 7
Decimal degrees:	LAT <u>3 -1 . 1</u>			inclination °
GPS within star	nd? Yes No If N	Io, cite from GPS to stand:	listance (m) bearing	
and record: Bas	e point ID	Projected UTM	1s: UTME	
Camera Name: A	559 Cardina	photos at ID point: N	ESW	
Other photos:	0	Plat Arms (m ²): 100 /	Plot Dimensions	x m RA Radius 40 m
Stand Size (acres): <1, (1-5) >5	SF SW Flat Varial	ble Steepness, Actual °:	1 0° (1-5°) > 5-25° > 25
Exposure, Actua	facro: top upper	mid tower bottom	Micro: convex flat	t) concave undulating
Geology code:	Soil Te	xture code: MESA	Upland or Wetland	d/kiparian (circle one)
% Surface cover	:	(Incl. outcrops) (>60cm diar	n) (25-60cm) (7.5-25cm)	(2mm-7.5cm) (Incl sand, mud) Gravel: 30 Fines: (24)=100%
H20: Ø BA St	ems: 3 Litter: 2	Bedrock: <i>P</i> Boulder	p stone. Count.	fnunch
AL C				
% Current year	bioturbation	Past bioturbation prese	nt? Yes/ No / 70 100	re, if known.
Site history, star WASH, J	bioturbation Yes / So (circle one) Id age, comments: /ERGA SANT / NEW	Past bioturbation prese If yes, describe in Site histor Stand Stand AT	PLOT CENTER WX TRAILS	R, if known.
Site history, star WASH, J	bioturbation Yes (Decircle one) ad age, comments: /ERGA SANT / NEW	Past bioturbation prese If yes, describe in Site histor	PLOT CENTER WX TRACLS	E BUT VARIED
Site history, star MASH, Y 10m D	bioturbation Yes (Decircle one) ad age, comments: /ERGA SANT / NEW	Past bioturbation prese If yes, describe in Site histor	PLOT CENTER WX TENELS	re, if known. 2 3 A UARIED 1 "Other"1
Disturbance co	bioturbation Yes / (circle one) ad age, comments: /EEGA SANT /EEGA NEW de / Intensity (L,M,H DESCRIPTION	Past bioturbation prese (f yes, describe in Site history) TELANDS AT VOUNTEER): DSIL 021 M	PLOT CENTER MX TENELS	////////
Disturbance co I. HABITAT I Tree DBH : <u>TI</u> Shrub: <u>SI</u> seet Herbaceous: <u>H</u> Desert Riparia Desert Palm/JI	bioturbation Yes / So (circle one) Id age, comments: /EEGA SANG /EEGA SANG	Past bioturbation prese If yes, describe in Site histo If yes,	4" dbh), T5 (>24" dbh), T6 mul e (1-25% dead), S4 decadent (: (10-20ft. ht.), 4 (>20ft. ht.) n.), 3 (>6" diam.)	// ///////
Disturbance co I. HABITAT I Tree DBH : <u>TI</u> Shrub: <u>SI</u> seec Herbaceous: Horsert Riparia Desert Palm/Jo II. INTERPR Field-assessed	bioturbation Yes / So (circle one) Id age, comments: /EEGA SANG /EEGA SANG	Past bioturbation prese If yes, describe in Site histo If yes, description If yes, description <t< td=""><td>4" dbh), <u>T5</u> (>24" dbh), <u>T6</u> mulle (10-20ft. ht.), 4 (>20ft. ht.) n.), 3 (>6" diam.)</td><td>I GAR VARIER "Other"I</td></t<>	4" dbh), <u>T5</u> (>24" dbh), <u>T6</u> mulle (10-20ft. ht.), 4 (>20ft. ht.) n.), 3 (>6" diam.)	I GAR VARIER "Other"I
 Current year Fire evidence: Site history, star ASH, A DM D Disturbance co II. HABITAT I Tree DBH : <u>TI</u> Shrub: <u>SI</u> seed Herbaceous: Herbaceo	bioturbation Yes / So (circle one) Id age, comments: /EEGA SANG /EEGA SANG	Past bioturbation prese If yes, describe in Site histo	4" dbh), <u>T5</u> (>24" dbh), <u>T6</u> mul e (1-25% dead), <u>S4</u> decadent (: (10-20ft. ht.), 4 (>20ft. ht.) n.), 3 (>6" diam.)	Image: set of the set of
Disturbance co II. HABITAT I Shrub: <u>S1</u> sect Herbaceous: <u>H</u> Desert Riparia Desert Palm/Ju III. INTERPR Field-assessed Adjacent Allia	bioturbation Yes / O (circle one) ad age, comments: /EEGA SANG /EEGA SANG /EEG	Past bioturbation prese If yes, describe in Site histo	A" dbh), <u>T5</u> (>24" dbh), <u>T6</u> mul e (1-25% dead), <u>S4</u> decadent ((10-20ft. ht.), 4 (>20ft. ht.) n.), 3 (>6" diam.)	1 - the intervalue of the second seco
Disturbance co II. HABITAT I Shrub: S1 seed Herbaceous: (f) Desert Riparia Desert Riparia Desert Palm/JJ III. INTERPR Field-assessed Adjacent Allia Confidence in	bioturbation Yes / (circle one) ad age, comments: /EEGA SANG /EEGA	Past bioturbation prese If yes, describe in Site histo \overline{J} \overline{J}	1	1 - Criedychan Spa 1 - Criedychan Spa

Stratum categories: T=Tree, A = SApling, E = Stratum, H= Herb, N= Non-avacular % Cover Intervals for reference: r= trace, r= <7%, 15%, >51/5%, >52/5%, >52/5%, >50/75%, >75% Stratum Species % cover C Sindu character r= trace, r= <7%, 15%, >51/5%, >51	edling, S = Shrub, H= Herb, N= Non-vascular 6, >5-15%, >15-25%, >25-50%, >50-75%, >75% C Final species determination	edlin 6, > C	ng, E = SI 1%, 1-5 % cover 7 7 7 7 7 5 7 7 7 7 7 7 7 7 7 7 7 7	Stratum categories: T=Trce, A = SAplin % Cover Intervals for reference: r = trace, + = < Species Ericameria nauseosa Ericameria cosperi Sambucus nigra Lepidospartum soumatum Arkenesia tribuntata Encelia actori	tratum S S S S S S S S S S S S S S S S S S S
Irritum Species Private Privat			7 2 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7	Species Ericalictyon crossifolium Ericalmeria cosperi Sombucus nigra Lepidosportum soumatum Arkmesia tribuntata Encello actoni	S S S S S S S S S S S S S S S S S S S
S Ericalistran cressition 12 S Ericalistran cressition 2 S Eficamentia nouseasa 2 S Eficamentia Copper : C Lepidospartum soumatum 5 C Lepidospartum soumatum 5 Arcemesia triomata 4 S Encolin actoni S Paritoma artigea 7 H apportia basi aris 7 Beriosonom fasciculutum 41 Beriosonom 4			2	Ericalizyon crossitalium Ericameria nauseasa Ericameria cosperi Sambucus nigra Lepidosportum soumatum Artemesia tridentata Encolia actoni	0000000
DEricamenta nauseusu 2 S Ericamenta Cosperi c S Sombucue Maria 5 e Lepidoepartum saumatum 5 e Arternesia tradmitata 4 e Artenesia tradmitata 4 S Ericalia actori c S Parita actori c S Parita baci briggea c H aportia baci briggea c E Eriogonum fasci ulatum 4 N Astragalus douglacii c h Marah Macrocarpa c H Cryptorth sp. c H Salvia columbariae c H Cryptorth sp. c H Salvia columbariae c H Cryptorth sp. c H Cryptorth action carpa c H Cryptorth sp. c H			1 r r 5 7 r r 2	Ericameria nauseusu Ericameria Cosperi Sambucus nigra Lepidospartum saunatum Artemesia triantata Encelia actoni	000000
S Edicamento Cospectini S Sombucule Algra C Lepidospartum soumatum 5 Areinesia trobantata S Enclip, a ctani S Pari toma arbyzea S Pari toma arbyzea F Pari toma arbyzea H Arbin machoarban H Salvia columbariae H Salvia c			5757	Ericamena cosperi Sombucus nigra Lepidosportum soumatum Artemesia triantata Encelia actoni	500000
S Sampuris migra C Lepidospartum soumotum 5 Artemesia tridentata 4 S enolla actani 7 S leperovucca whiepb i 2 H opintia basi baris 7 C Eriogonum fasci culstum 41 N Astragalus douglacii 7 H Marah macrocarpa 7 H Salvia columbariae 7 H Salvia columbariae 7 H Salvia columbariae 7 H Cruptanta sp. 7 H Salvia columbariae 7 H Caluptridium mandantrum 7 H Caluptridium 1 H Caluptridium 1			5757	Lepidosportum soumatum Antemesia tridmtata Encelia actori	000
Ceptral province of the system of the s			4 5 5 2	Arlemesia trientata Enclip a ctoni	8
S Analia a choni S Analia a choni S Peritoma Orborea Hesperoyucca whisple i 2 H Opuntia brei laris F Construction fasci culatum <1 N Astragalus douglasii r Marah ma chocarpa r H Salvia columbariae r H Salvia columbariae r H Salvia columbariae r H Construm californica r H Coluptridium mordantrum F H Coluptridium mordantrum H Coluptridium mordantrum H Coluptridium mordantrum H Coluptridium mordantrum H Coluptridium mordantrum H Coluptridium mordantrum H Columbariae H Columbariae H Coluptridium mordantrum H Columbariae H Columb			5 5 2	Encelia actori	E
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S lesperoyucca uniciple i 2 H opentia basi by is r S Eriogonum fasci culatum 21 N Astragalus douglasi r H Navah macrocaripa r H Cryptonth sp. r H Salvia columbariae r H Salvia columbariae r H Salvia columbariae r H Salvia columbariae r H Caluptridium mordantrum r H Caluptridium mordantrum r H Caluptridium mordantrum r H Caluptridium mordantrum r			2	I GOTTA THE THE TRANSFER THE	5
H Opential basilaris r S Eriogonum fasci culstum <1		-		Lesperourisca whieplei	
Image: Series of the series			5	anntig brai bris	 H
N Astragalvs douslasii r H Marah machocarpa r H Cryptonth sp. r H Salvia columbariae r H Denothura californica r H Denothura californica r H Califor		+	21	Eriggonum fasci culatum	G
h Marah Machocarpa r H Cryptonth sp. r H Salvia columbariae r H Salvia columbariae r H Californica r H Calyptridium mordantrum r H Criastrvim densiflarum r H Criastrvim densiflarum r			5	Astropalus dous asi	. 1
H Cryptonth sp. H Salvia columboriae r H Salvia columboriae r H Conothura californica r H Colyptridium mordantrum r H Colyptridium mordantrum r H Colyptridium mordantrum r H Colyptridium ansitelorum r H Colyp			5	Marah macrocarpa	H
H Salvia columbariae r H Emendulificia r H Cenothina californica r H Oslyptridium mordandrum r californica r H Californica r californica r H Californica r californica r H Californica r californica californica H		-	Г	Cryptonth sp	H
H Emmenanike pendulifolia r H Genothwa Californica r H Calyptridium mordantrum r E Eriastrum densiflorum r 		-	5	Salvia columbariae	41
H Quothura californica r H Calyptridium mondandrum r Eriosthum densifelorum r 		-	r	Emmenanthe pendulifolia	41
H Oalyptridium mardandrum F H Eriastrum densit-Playum F I I <td></td> <td>-</td> <td>5</td> <td>Oenothina californica</td> <td>H</td>		-	5	Oenothina californica	H
H Eriöstnum Jensiflorum F I I I		-	1	Calyptridium mondandrum	F
Image: Section of the sectio		-	F	Eriastrum densiflorum	L)
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LIOCATIONAL		Final vegetation type. Association
I. LUCATIONAL/	ENVIRONMENTAI	DESCRIPTION circle: Relevé or (RA)
Database #:	Date:	Name of recorder: JV
	04/13/2	22 Other surveyors: AH, LG, MP, LD
	UID: 24	Location Name: HUSURA
GPS name:		For Relevé only: Bearing ^o , left axis at ID point of Long / Short side
		MN Zone: 11 NAD83 GDS error: ft / m / PDOP
	UI	
Decimal degrees:	LAT <u>3 4</u> . <u>7</u>	6 785 LONG (6.865850
GPS within stan	d? Ves No If N	o cite from GPS to stand: distance (m) bearing o inclination o
and record. Base	point ID	Projected UTMs: UTME UTMN
Camera Name: A	HPhase Cardinal	photos at ID point: NESIN
Other photos:		
Stand Size (acres).	<1 (5) >5 F	Plat Area (m ²): 100 / Plat Dimensions v m PA Padius 30 m
Exposure Actual	1, 10, 25 TI	SE SW Elat Variable Staannass Actual $^{\circ}$: $\sqrt{3}$ 0° 15° $>525^{\circ}$ >25
Exposure, Actual	· 46 (11 11	SE SW Flat Variable Steepness, Actual : 0 1-5 2-5-25 2-25
Topography: Ma	cro: top upper	mid lower bottom Micro: convex flat concave undulating
Geology code:	Soil Tex	ture code: MELS Upland or Wetland/Riparian (circle one)
% Surface cover:	(I	Incl. outcrops) (>60cm diam) (25-60cm) (7.5-25cm) (2mm-7.5cm) (Incl sand, mud)
H20: 1 BA Sten	ns: 3 Litter: 10	Bedrock: O Boulder: O Stone: O Cobble: O Gravel: 4 Fines: 87 =100%
% Current year bi	oturbation	Past bioturbation present? Yes)/ No % Hoof punch
Fire evidence: Ye	s / No Peircle one) If	ves describe in Site history section, including date of fire, if known
Site history, stand Vantage poi	age, comments: A nt up above p	ren arond plot center w/ junipers, scinh oaks, & piñons, lat center
Site history, stand Vantage põi	age, comments: A nt up above p	ren around plot center w/ junipers, scint onlas, & piñons, lot center
Site history, stand Vartage poi Disturbance code / II. HABITAT DES	age, comments: A af up above p Intensity (L,M,H): _ SCRIPTION	DEIL (other
Site history, stand Vartage poi Disturbance code / II. HABITAT DES Tree DBH : <u>T1</u> (<1	age, comments: A af up above p Intensity (L,M,H): _ SCRIPTION "dbh), T2 (1-6" dbh),(2)	ren around plat center w/ junipers, scint and plat, a pirons, later 1st center 05/L
Site history, stand Vartage poi Disturbance code / II. HABITAT DES Tree DBH : <u>T1</u> (<1 Shrub: <u>S1</u> seedling	age, comments: A af up above p Intensity (L,M,H): _ SCRIPTION " dbh), <u>T2</u> (1-6" dbh),(g (<3 yr. old), S2 youn	105 104 center 101 incidents incidents 105 104 center 101 incidents incidents incidents 105 104 104 104 incidents incidents incidents 105 104 104 104 104 incidents incidents incidents 105 104 104 104 104 incidents incidents incidents 105 104 104 112 104 incidents incidents incidents 113 (6-11" dbh), 114 (11-24" dbh), 115 (>24" dbh), 16 multi-layered (T3 or T4 layer under T5, >60% cover) 12 (<1% dead), (S3
Site history, stand Vartage poi Disturbance code / II. HABITAT DES Tree DBH : <u>T1</u> (<1 Shrub: <u>S1</u> seedling Herbaceous: <u>F1</u> (<	age, comments: A af up above p Intensity (L,M,H): SCRIPTION " dbh), T2 (1-6" dbh),(g (<3 yr. old), S2 youn 12" plant ht) H2 (>12"	Ist center Indiana and plat center w/ junipers , Scint and a plat center w/ junipers , Scint and plat and plat center w/ junipers , Scint and plat and plat center w/ junipers , Scint and plat and plat center w/ junipers , Scint and plat and plat center w/ junipers , Scint and plat and plat center w/ junipers , Scint and plat and plat center w/ junipers , Scint and plat and plat center w/ junipers , Scint and plat and plat center w/ junipers , Scint and plat and plat center w/ junipers , Scint and plat and plat center w/ junipers , Scint and plat and plat center w/ junipers , Scint and plat and plat center w/ junipers , Scint and plat and plat center w/ junipers , Scint and plat and plat center w/ junipers , Scint and plat and plat center w/ junipers , Scint and plat and plat center w/ junipers , Scint and plat and plat center w/ junipers , Scint and plat and plat center w/ junipers , Scint and plat
Site history, stand Vartage poi Disturbance code / II. HABITAT DES Tree DBH : <u>T1</u> (<1 Shrub: <u>S1</u> seedling Herbaceous (III (< Desert Riparian Tr	age, comments: A age, comment	Ist center Indiang and interpretenting and interpretenting intermediate Ist center Ist center D5/L ///
Site history, stand Vartage poi Disturbance code / II. HABITAT DES Tree DBH : <u>T1</u> (<1 Shrub: <u>S1</u> seedling Herbaccous(<u>H1</u> (< Desert Riparian Tr Desert Riparian Tr Desert Riparian Tr	age, comments: A age, comment	$\frac{D5}{L} = \frac{1}{2} = 1$
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Site history, stand Vartage point Disturbance code / II. HABITAT DES Tree DBH : <u>T1</u> (<1 Shrub: <u>S1</u> seeding Herbaceous (III (Desert Riparian Tr Desert Palm/Joshu III. INTERPRETA Field-assessed vege Field-assessed vege	age, comments: A age, comment	$\frac{D5}{L} = \frac{1}{2} = 1$
Site history, stand Vartage point Disturbance code / II. HABITAT DES Tree DBH : <u>T1</u> (<1 Shrub: <u>S1</u> seeding Herbaceous (III (Desert Riparian Tr Desert Palm/Joshu III. INTERPRETA Field-assessed vege Field-assessed Asso Adjacent Alliances	age, comments: A age, comment	$\frac{D5}{L} = \frac{1}{2} = 1$
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Combined	Vegetation Rapid Assessment and Relevé Field Forr (Revised March 27, 2018) SPECIES SHEET
Combined	Vegetation Rapid Assessment and Relevé Field For (Revised March 27, 2018) SPECIES SHEET

VEGETATION DESCRIPTION		
VEGETATION 22	%	NonVasc cover: O Total % Vasc Veg cover: O Harbersone:
over - Conifer tree / Hardwood tree: 8 /	Regenerat	ing Tree: O Shrub: 10 Herbaceous:
ght Class - Conifer tree / Hardwood tree:	_ Regenera	ting Tree: Sirrub Ret second and the second se
Height classes: 1=<1/2m, 2=1/2-1m, 3=1-2m, 4=2-5n	n, 5=5-10m, 6	C C L L Hoth N= Non-vascular
Stratum categories: T=Tree, A = SApl	ing, E = SEedli <1% 1-5%	ng, S = Shrub, H- Helb, H Holl (100)
% Cover Intervals for reference. 1 – trace, +	% cover C	Final species determination
	5	
Uniperis can torma	8	
> Quercus John-rucher	1	
1 Pinus monoprigita	ł	-
5 Ericameria Incur 10 ma	21	
S Hrotostophyros gruceu	5	
il los counda	r	
H Clautania 50.	r	
I vaytoria qu	r	
IT GILLO P	r	
H Stipa species	r	
FI WINDTWIND SP.	Ŷ	
H Cryptasin pinnatu	r	
H Descaring rapitata	r	
H Existrino Se	r	
A Crashan op		
		N N

or Office Use:	Final vegetation type: Association
LOCATIONAL	ENVIRONMENTAL DESCRIPTION circle: Relevé or RA
atabase #:	Date: Name of recorder: JV
	04/11/22 Other surveyors: AH, LG, MP
	UID: 41 Location Name: HUSURA
GPS name:	For Relevé only: Bearing °, left axis at ID point of Long / Short side
UTME	UTMN Zone: 11 NAD83 GPS error: ft./ m./ PDOP
	11 24 734 853 LONG 18.867180
Decimal degrees:	
GPS within star	d? Yes No If No, cite from GPS to stand: distance (m) bearing ° inclination *
and record: Bas	point ID Projected UTMs: UTME UTMN
Camera Name: A	+ Phone Cardinal photos at ID point: NESW
Other photos:	RA Radius 20 m
Stand Size (acres	: $(1,)1-5, >5$ Plot Area (m ²): 100/ Plot Dimensions m + 100/ n = 100/ Plot Dimensions n = 100/ n = 100/n =
Exposure, Actual	•: NE NW SE SW Flat Variable Steepness, Actual : 0 10
Topography: N	acro: top upper mid lower bottom Micro: convex flat concave undulating
Geology code:	Soil Texture code: Upland or Wetland/Riparian (circle one)
% Surface cover	(Incl. outcrops) (>60cm diam) (25-60cm) (7.5-25cm) (2mm-7.5cm) (incl. sand, indd) (1.5-25cm) (2mm-7.5cm) (incl. sand, indd) $\approx 100\%$
H20: () BA Ste	ms: 3 Litter: 8 Bedrock: 0 Boulder: 0 Stone: 0 Cobble. 2 Grater (2) and 6 1
% Current year	pioturbation - Past bioturbation present? Yes No 9% Hoor punch
	Contraction including date of fire if known
Fire evidence: M	ies (No)(circle one) If yes, describe in Site history section, including date of fire, if known. d age, comments: @ plot center looking and on boul & Characterizing that.
Fire evidence: M	ies (No)(circle one) If yes, describe in Site history section, including date of fire, if known. d age, comments: @ plot center looking and on boul & Characterizing that.
Fire evidence: M Site history, stan	e / Intensity (L,M,H): <u>05/L</u> <u>OHV/L</u>
Fire evidence: M Site history, stan Disturbance cod II. HABITAT D	e / Intensity (L,M,H): <u>05/L</u> <u>OHV/L</u> <u>/</u>
Fire evidence: M Site history, stan Disturbance cod II. HABITAT D Tree DBH : <u>T1</u>	e / Intensity (L,M,H): <u>05/L</u> <u>OHV/L</u> / <u>/</u>
Fire evidence: M Site history, stan Disturbance cod II. HABITAT D Tree DBH : <u>T1</u> Shrub: <u>S1</u> seed	e / Intensity (L,M,H): <u>05/L</u> <u>OHV/L</u> <u>/</u>
Fire evidence: M Site history, stan Disturbance coo II. HABITAT D Tree DBH : <u>T1</u> Shrub: <u>S1</u> seed Herbaceous; <u>H1</u>	e / Intensity (L,M,H): <u>05/L</u> <u>OHV/L</u> <u>/</u>
Fire evidence: M Site history, stan Disturbance cod II. HABITAT D Tree DBH : <u>T1</u> Shrub: <u>S1</u> seed Herbaceous; <u>H1</u> Desert Ripariar	e/Intensity (L,M,H): <u>05/L</u> <u>OHV/L</u> <u>/</u>
Fire evidence: M Site history, stan Disturbance cod II. HABITAT D Tree DBH : <u>T1</u> Shrub: <u>S1</u> seed Herbaceous; <u>f11</u> Desert Ripariar Desert Palm/Jo	e/Intensity (L,M,H): <u>05/L</u> <u>OHV/L</u> <u>/</u>
Fire evidence: M Site history, stan Disturbance cod II. HABITAT D Tree DBH : <u>T1</u> Shrub: <u>S1</u> seed Herbaceous; <u>111</u> Desert Ripariar Desert Palm/Jo III. INTERPRE	ies (N)(circle one) If yes, describe in Site history section, including date of fire, if known. d age, comments: (a) plot center booking and on bool school schorectenzing that. e / Intensity (L,M,H): $05/L$ $0HV/L$ // // // "Other" // "Other" // " ESCRIPTION <1" dbh), T2 (1-6" dbh), T3 (6-11" dbh), T4 (11-24" dbh), T5 (>24" dbh), T6 multi-layered (T3 or T4 layer under T5, >60% cover ing (<3 yr. old), S2 young (<1% dead), (S3 mature (1-25% dead)), S4 decadent (>25% dead) (<12" plant ht.) H2 (>12" ht.) Tree/Shrub: 1 (<21.5" base diameter), 2 (1.5-6" diam.), 3 (>6" diam.) TATION OF STAND
Fire evidence: M Site history, stan Disturbance coo II. HABITAT D Tree DBH : <u>T1</u> Shrub: <u>S1</u> seed Herbaceous; <u>M1</u> Desert Ripariar Desert Palm/Jo III. INTERPRE Field-accourd	es (N)(circle one) If yes, describe in Site history section, including date of fire, if known. d age, comments: @ plot center booking out on bool school schoracterizing that. e / Intensity (L,M,H): <u>05/L</u> <u>OHV/L</u> // // "Other" // [// "Other" // [// [// [// [// [// [// [// [// [//
Fire evidence: M Site history, stan Disturbance cool II. HABITAT D Tree DBH : <u>T1</u> Shrub: <u>S1</u> seed Herbaceoust [<u>H1</u> Desert Ripariar Desert Palm/Joo <u>III. INTERPRE</u> Field-assessed M	es (N)(circle one) If yes, describe in Site history section, including date of fire, if known. d age, comments: @ plot center booking out on bool school schoracterizing that. e / Intensity (L,M,H): <u>05/L</u> <u>OHV/L</u> // // <u>// "Other"</u> /
Fire evidence: M Site history, stan Disturbance cool II. HABITAT D Tree DBH : T1 Shrub: <u>S1</u> seed Herbaceous; [H] Desert Ripariar Desert Palm/Jor III. INTERPRE Field-assessed M Field-assessed A	ies (N)(circle one) If yes, describe in Site history section, including date of fire, if known. d age, comments: (a) plot center booking out on bool & Choracterizing that. e / Intensity (L,M,H): $05/L$ $0HV/L$ // // (b), 14 (11-24" dbh), 15 (>24" dbh), 16 multi-layered (T3 or T4 layer under T5, >60% cover ing (<3 yr. old), 52 young (<1% dead), 53 mature (1-25% dead)). 54 decadent (>25% dead) (<12" plant ht.) H2 (>12" ht.) Tree/Shrub: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 (>6" diam.) TATION OF STAND esectation name (optional): / / / /
Fire evidence: M Site history, stan Disturbance cool II. HABITAT D Tree DBH : T1 Shrub: <u>S1</u> seed Herbaceous: [H] Desert Ripariar Desert Palm/Jo HI. INTERPRE Field-assessed A Adjacent Alliar	es (No(circle one) If yes, describe in Site history section, including date of fire, if known. d age, comments: (a) plot center looking out on boul schoracterizing that. e / Intensity (L,M,H): $05/L$ $0HV/L$ // _/_ "Other"/ ESCRIPTION <1" dbh, T2 (1-6" dbh), T3 (6-11" dbh), T4 (11-24" dbh), T5 (>24" dbh), T6 multi-layered (T3 or T4 layer under T5, >60% cover ing (<3 yr. old), S2 young (<1% dead), (S3 mature (1-25% dead)), S4 decadent (>25% dead) (<12" plant ht.) H2 (>12" ht.) Tree/Shrub: 1 (<2ft stem ht.), 2 (2-10ft. ht.), 3 (10-20ft. ht.), 4 (>20ft. ht.) hua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 (>6" diam.) TATION OF STAND egetation Alliance name:/ ces/direction:/ Esclaim in the state in the s
Fire evidence: M Site history, stan Disturbance cool II. HABITAT D Tree DBH : <u>T1</u> Shrub: <u>S1</u> seed Herbaceous: <u>H1</u> Desert Ripariar Desert Palm/Joo <u>H1. INTERPRE</u> Field-assessed A Adjacent Allian Confidence in A	es (No)(circle one) If yes, describe in Site history section, including date of fire, if known. d age, comments: @ plot center looking out on boal & Choracterizing that. e / Intensity (L,M,H): <u>05/L</u> <u>ottV/L</u> // _/ "Other"/ ESCRIPTION <1" dbh), <u>T2</u> (1-6" dbh), <u>T3</u> (6-11" dbh), <u>T4</u> (11-24" dbh), <u>T5</u> (>24" dbh), <u>T6</u> multi-layered (T3 or T4 layer under T5, >60% cove ing (<3 yr. old), <u>S2</u> young (<1% dead), <u>S3</u> mature (1-25% dead)). <u>S4</u> decadent (>25% dead) (<12" plant ht.) <u>H2</u> (>12" ht.) Tree/Shrub: 1 (<2ft stem ht.), 2 (2-10ft. ht.), 3 (10-20ft. ht.), 4 (>20ft. ht.) hua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 (>6" diam.) TATION OF STAND egetation Alliance name:/

Database #: ____

井川

oight (r - Conjfer tree / Hardwood tree: 5 / -	Reger	energing Tree: 4 Shruh: 33 Herbaceous: 2
	Confer tree / Hardwood tree:/	_ Reger	successing Trees 2 Shrub. 2 Horbaccoust
Uni	$\frac{1}{2}$ - Contrer tree / Hardwood tree: $\underline{\neg}$ /	Rege	$\frac{1}{10} = \frac{10}{15} = \frac{15}{20} = \frac{20}{10} = \frac{20}{25} = \frac{10}{25} = \frac{10}{10} = \frac{10}$
Heig	Stratum categories: T=Tree, A = SApl:	ing, $E = SE$	$\frac{10-15}{\text{Eedling, S} = \text{Shrub, H= Herb, N= Non-vascular}}$
	% Cover Intervals for reference: r = trace, +=	<1%, 1-5	5%, >5-15%, >15-25%, >25-50%, >50-75%, >75%
ratum	Species	% cover	C Final species determination
2	Uniperus edifornicus	5	
S	Hesperannica Whipplei	10	
5	Exicomenica linearifolia	15	
5	Salvia dorrii	3	
5	Figure faction latur	2	
S	E EE Dalifalium	5	
Ś	Exist internetion	(
Ĩ	Counting basis	C	
	bookers and Granica	1	
1)	Lastrupula Carrentica	51	
H	Layia ofar uniosu		
H	Castilleja linearitolia	1	
H	Bromus hubra	Y	
H	Leptosyne bigelovii	r	
H	Stipa speciosa (tall = mirey)	C	
H	Salvia columbarea	r	
H	(Unk, gross) Poasunda?	r	
H	PMEIn Ka Jesselata	(
H	Boechera pulchra	Y	
4	Leptosyphon autrea	(
H	Pectur avya en	C	
	p		
4	2		

Cosperi = head of multiple flowers Page 2

r Office Use: Fin	nal database #:	Final vegetation type.	Association) 1
OCATIONAL (ENIL	TRONMENTAL	DESCRIPTION	circle: Releve or (Ka	
LOCATIONAL/EN	Date:	Name of record	er: JU	
alabase #.	04/12	122 Other surveyor	s: AH, LG, MP	
	UID: 45	Location Name	HUSVRA	
	10	For Relevé	e only: Bearing°, left axis at ID point of Long / Sho	ort side
PS name:		3.4N	Zone: 11 NAD83 GPS error: ft./ m./ PDOP	
TME	UI		IONC 118 837874	
ecimal degrees: LA	r <u>34.</u> '	00011		
DE within stand?	Nes / No If	No, cite from GPS to stand: d	listance (m) bearing ° inclination °	
and record. Base noi	nt ID	Projected UTM	1s: UTME UTMN	
amera Name: AH P	hone Cardina	ll photos at ID point: NE	SW	and the second se
Other photos:			DA Padius	20 m
Stand Size (acres): <	1. (1-5) >5	Plot Area (m ²): 100 /	Plot Dimensions x_m x_m x_m x_m x_m x_m	> 25
Exposure Actual °:	146 NE NW	SE) SW Flat Varial	ble Steepness, Actual $6: 3 \cdot 8 = 0^{-1} (1-5)^{-2} - 5-25$	
	ton unner	mid lower bottom	Micro: convex flat concave undulating	
Topography: Macr	o: top appen Soil T	exture code:COLS	Upland of Wetland/Riparian (circle one)	
Geology coue:		(Incl. outcrops) (>60cm dian	n) (25-60cm) (7.5-25cm) (2mm-7.5cm) (Incl sand, mud)	=100%
"Surface cover:	2 Litter: 4	Bedrock: () Boulder	: O Stone: O Cobble: 2 Gravei: 90 Fines. 39	
1120. () Dirott			a al The format	
of Comment yoor high	urbation 2	Past bioturbation prese	nt? Yes No % Hoor punch	
% Current year biot Fire evidence: Yes Site history, stand as burday.	urbation <u>2</u> / No (circle one) ge, comments:	Past bioturbation prese If yes, describe in Site histo in the valley @	nt? (Yes) No [% Hoor putter ry section, including date of fire, if known. plot 45 w/ hillsides on either side	as
% Current year biot Fire evidence: Yes Site history, stand as buy-duy.	urbation / No (circle one) ge, comments:	Past bioturbation prese If yes, describe in Site histo in the valley @	nt? (Yes/1 No % Hoor putter ry section, including date of fire, if known. plot 45 w/ hillsides on either side	as
% Current year biot Fire evidence: Yes Site history, stand as buy-duy.	urbation / No (circle one) ge, comments:	Past bioturbation prese If yes, describe in Site histo in the valley @ D: 05/L /	nt? (Yes// No % Hoor putter ry section, including date of fire, if known. plot 45 w/ hillsides on either side	a\$
% Current year biot Fire evidence: Yes Site history, stand as bound boy Disturbance code /	urbation / No (circle one) ge, comments: ge, comments: Intensity (L,M,F	Past bioturbation prese If yes, describe in Site histo in the valley @ 1): 05/L	nt? (Yes// No [% Hoor putter pry section, including date of fire, if known. plot 45 w/ hillsides on either side 	as
% Current year biot Fire evidence: Yes Site history, stand ag bound board. Disturbance code / II. HABITAT DES	urbation / No (circle one) ge, comments: Intensity (L,M,F CRIPTION	Past bioturbation prese If yes, describe in Site histo in the valley @ 1): 05/L _/	nt? (Yes// No [% Hoor putter pry section, including date of fire, if known. plot 45 w/ hillsides on tither side 	a.j
% Current year biot Fire evidence: Yes Site history, stand ag bound Gay Disturbance code / II. HABITAT DES Tree DBH : <u>T1</u> (<1'	urbation / No (circle one) ge, comments: Intensity (L,M,F CRIPTION ' dbh), <u>T2</u> (1-6" dt	Past bioturbation prese If yes, describe in Site histo in the valley @ 1): 05/L _/ b), T3 (6-11" dbh), T4 (11-5 manual content of the site of	nt? (Yes// No [% Hoor putter ry section, including date of fire, if known. pbt 45 w/ hillsides on tither side 	a] 1 ,>60% cover,
% Current year biot Fire evidence: Yes Site history, stand as bound bound Disturbance code / II. HABITAT DES Tree DBH : <u>T1</u> (<1) Shrub: <u>S1</u> scedling	urbation / No (circle one) ge, comments: Intensity (L,M,F CRIPTION ' dbh), <u>T2</u> (1-6" dt (<3 yr. old), <u>S2</u> 2	Past bioturbation prese If yes, describe in Site histo in the valley $@$ 1): 05/L /	nt? (Yes// No [% Hoor putter ry section, including date of fire, if known. pbt 45 w/ hillsides on tither side 	a] 1 ,>60% cover,
% Current year biot Fire evidence: Yes Site history, stand as burdum. Disturbance code / II. HABITAT DES Tree DBH : T1 (<1) Shrub: S1 scedling Herbaceous: H1 (<	urbation / No (circle one) ge, comments: Intensity (L,M,F CRIPTION ' dbh), <u>T2</u> (1-6" dt (-3 yr. old), <u>S2</u> (12" plant ht.), <u>H2</u> (Past bioturbation prese If yes, describe in Site histo in the valley $@$ 1): 05 / L / ph), T3 (6-11" dbh), T4 (11-2) young (<1% dead), S3 matur >12" ht.) $2 (2-100 ht.) = 2 (2-100 ht.)$	nt? (Yes// No [% Hoof putter ry section, including date of fire, if known. pbt 45 w/ hillsides on tither side 	a] 1 ,>60% cover,
% Current year biot Fire evidence: Yes Site history, stand ag burdung Disturbance code / II. HABITAT DES Tree DBH : T1 (<1) Shrub: S1 seedling Herbaceous: H1 (< Desert Riparian T	urbation / No (circle one) ge, comments: Intensity (L,M,F CRIPTION ' dbh), <u>T2</u> (1-6" dt (<3 yr. old), <u>S2</u> 3 12" plant ht.), <u>H2</u> (ree/Shrub: 1 (<	Past bioturbation prese If yes, describe in Site histo in the valley $@$ 11: 05 / L / ph), T3 (6-11" dbh), T4 (11- young (<1% dead), S3 matur >12" ht.) 2ft. stem ht.), 2 (2-10ft. ht.), 3 Linear diameter 2 (156" dia	nt? (Yes// No [% Hoor putter ry section, including date of fire, if known. pbt 45 w/ hillsides on tither side "Other" 24" dbh). T5 (>24" dbh), T6 multi-layered (T3 or T4 layer under T5, re (1-25% dead)) S4 decadent (>25% dead) 3 (10-20ft. ht.), 4 (>20ft. ht.) m.). 3 (>6" diam.)	a] 1 ,>60% cover,
% Current year biot Fire evidence: Yes Site history, stand as burdung. Disturbance code / II. HABITAT DES Tree DBH : T1 (<1) Shrub: <u>S1</u> seedling Herbaceous: <u>H1</u> (<2) Desert Riparian T1 Desert Palm/Joshu	urbation / No (circle one) ge, comments: ge, comments: Intensity (L,M,F CRIPTION ' dbh), <u>T2</u> (1-6" dt ; (<3 yr. old), <u>S2</u> ; 12" plant ht.), <u>H2</u> (ree/Shrub: 1 (< a Tree: 1 (<1.5"	Past bioturbation prese If yes, describe in Site histo in the valley $@$ 11: 05 / L / / @ 11: 05 / L / @ 11: 05 / L / @ 12" ht) % 12" ht) % 1	nt? (Yes// No [% Hoor putter ry section, including date of fire, if known. pbd 45 w/hillsides on tither side 	a\$1 1 ,>60% cover,
% Current year biot Fire evidence: Yes Site history, stand af burd burd. Disturbance code / II. HABITAT DES Tree DBH : T1 (<1' Shrub: <u>S1</u> seedling Herbaceous: <u>H1</u> (< Desert Riparian T1 Desert Riparian T1 Desert Riparian T1	urbation / No (circle one) ge, comments: 	Past bioturbation prese If yes, describe in Site histo in the valley $@$ II: 05 / L / / (11-5) OS / L / (11-5) OS / (11	nt? (Yes// No [% Hoor putter ry section, including date of fire, if known. pbd 45 w/hillsides on either side 	a\$1 1 ,>60% cover,
% Current year biot Fire evidence: Yes Site history, stand af burd burd. Disturbance code / II. HABITAT DES Tree DBH : T1 (<1' Shrub: <u>S1</u> seedling Herbaceous: <u>H1</u> (< Desert Riparian T1 Desert Riparian T1	urbation / No (circle one) ge, comments: ge, comments: Intensity (L,M,F CRIPTION ' dbh), <u>T2</u> (1-6" dt ; (<3 yr. old), <u>S2</u> ; 12" plant ht.), <u>f12</u> (ree/Shrub: 1 (< a Tree: 1 (<1.5" TTION OF STAl cetation Alliance	Past bioturbation prese If yes, describe in Site histo in the valley $@$ II: 05/L // Obly, T3 (6-11" dbh), T4 (11-5) young (<1% dead), (\$3 matur >12" ht.) 2ft. stem ht.), 2 (2-10ft. ht.), 3 'base diameter), 2 (1.5-6" dia ND name: Ecleconum	nt? (Yes// No [% Hoor putter ry section, including date of fire, if known. pbd 45 w/hillsides on either side 	a3 1,>60% cover.
% Current year biot Fire evidence: Yes Site history, stand af burd burd. Disturbance code / II. HABITAT DES Tree DBH : T1 (<1' Shrub: <u>S1</u> seedling Herbaceous: <u>H1</u> (< Desert Riparian T1 Desert Riparian T1	urbation / No (circle one) ge, comments: ge, comments: Intensity (L,M,F CRIPTION ' dbh), <u>T2</u> (1-6" dt ; (<3 yr. old), <u>S2</u> ; 12" plant ht.), <u>f12</u> (ree/Shrub: 1 (< a Tree: 1 (<1.5" TTION OF STA] etation Alliance ociation name (c	Past bioturbation prese If yes, describe in Site histo in the valley $@$ If yes, describe in Site histo in the valley $@$ If you have the valley $@$ If you have the valley $@$ If you have the valley $@$ If yes, describes the valley des	nt? (Yes// No [% Hoor putter ry section, including date of fire, if known. pbd 45 w/ hillsides on tither side 	a3 1
% Current year biot Fire evidence: Yes Site history, stand af burd burd. Disturbance code / II. HABITAT DES Tree DBH : T1 (<1' Shrub: <u>S1</u> seedling Herbaceous: <u>H1</u> (< Desert Riparian T1 Desert Riparian T1 Desert Palm/Joshu <u>H1. INTERPRET</u> / Field-assessed veg Field-assessed veg	urbation / No (circle one) ge, comments: ge, comments: Intensity (L,M,F CRIPTION ' dbh), <u>T2</u> (1-6" dt ; (<3 yr. old), <u>S2</u> ; 12" plant ht.), <u>H2</u> (a Tree: 1 (<1.5" CTION OF STA] etation Alliance ociation name (c	Past bioturbation prese If yes, describe in Site histo in the valley @ 11: 05 / L / (2000) 12: 05 / L / (2	nt? (Yes// No [% Hoor putter	a.j
% Current year biot Fire evidence: Yes Site history, stand af burd burd. Disturbance code / II. HABITAT DES Tree DBH : T1 (<1' Shrub: <u>S1</u> seedling Herbaceous: <u>H1</u> (< Desert Riparian T1 Desert Riparian T1 Desert Palm/Joshu <u>H1. INTERPRET</u> / Field-assessed veg Field-assessed veg Field-assessed kass Adjacent Alliance	urbation / No (circle one) ge, comments: ge, comments: Intensity (L,M,F CRIPTION ' dbh), T2 (1-6" dt ; (<3 yr. old), S2 : 12" plant ht.), <u>H2</u> (a Tree: 1 (<1.5" CTION OF STA] etation Alliance ociation name (c s/direction:	Past bioturbation prese If yes, describe in Site histo in the valley @ 11: 05 / L / (2000) 11: 05 / L / (2000) $12^{2} h), T3 (6-11" dbh), T4 (11-5)$ young (<1% dead), (\$3 mature) $12^{2} h), 2 (2-10ft, ht), 3 $	nt? (Yes// No [% Hoor putter	
% Current year biot Fire evidence: Yes Site history, stand af burd burd. Disturbance code / II. HABITAT DES Tree DBH : T1 (<1' Shrub: <u>S1</u> seedling Herbaceous: <u>H1</u> (< Desert Riparian T1 Desert Riparian T1 Desert Riparian T1 Desert Riparian T1 Desert Riparian T1 Field-assessed veg Field-assessed veg Field-assessed veg Confidence in Alliance	urbation / No (circle one) ge, comments: ge, comments: Intensity (L,M,F CRIPTION ' dbh), <u>T2</u> (1-6" dt ; (<3 yr. old), <u>S2</u> : 12" plant ht.), <u>f12</u> (a Tree: 1 (<1.5" CTION OF STA] etation Alliance ociation name (c s/direction: iance identificati	Past bioturbation prese If yes, describe in Site histo in the valley $@$ In the valle	nt? (Yes// No [% Hoor putter	a3 1

way way

Combined Vegetation Rapid Assessment and Relevé Field Form (Revised March 27, 2018)

45

- whipper		%	NonVasc cover: ()_ Total % Vasc Veg cover: 30
Cover - Conjfer tree / Hardwood tree: - / -	Rege	nerat	ing Tree: O Shrub: 27 Herbaceous: 7
leight Class - Conifer tree / Hardwood tree: /	Rege	nerat	ing Tree: Shrub: Herbaceous:
Height classes: 1=<1/2m, 2=1/2-1m, 3=1-2m, 4=2-5r	n, 5=5-10	m, 6=	=10-15m, 7=15-20m, 8=20-35m, 9=35-50m, 10=>50m
Stratum categories: T=Tree. A = SApl	ing, E = SI	Eedlin	ng, S = Shrub, H= Herb, N= Non-vascular
% Cover Intervals for reference: r = trace, +=	<1%, 1-5	%, :	>5-15%, >15-25%, >25-50%, >50-75%, >75%
tratum Species	% cover	C	Final species determination
5 Hesperovir ca whipplei	2		
S Enjogenyon Resciculation	9		
3 Folkedra Viridis	7		
9 Exicomplete Da SeoSa	5		· .
S Fincella actioni	1		
S MERMISIS thid motor	3		
H Lawrence Coordination	C		~
H Leyman contribution	(
H Recenter	r		
H GLim Grading	1	1	
A Stiffe species a	(1	1	
+ promus ruberis	5	+	
H AMSID KIG LESS KIGAG	5		
f Layiaglandvio Sh	5	1	
H Mirabilis DEVIS	1	-	
H MACHDONS RAMININ	1	-	
H Phacelia distris	1	+	
H Vichelostemma capitala	C	+-	
14 Opuntia basilaris	1	+	
A leptosyphan aurea	1		
H. Ericgonum 7	Y	-	
		-	
		_	
		_	
		-	
· · · · · · · · · · · · · · · · · · ·			

			rinal regention of Association circle: Relevé of	or RA
LOCATIONAL	/ENVIRONM	ENTAL	DESCRIPTION	
atabase #:	Date:	11	Name of recorder: AH	
		9-11-2	C Other surveyors: 00, MC, OCT	
	UD:	57	Location Name: 90 20 Reg	/ Short side
PS name:			For Relevé only: Bearing", left axis at 1D point of Fort	PDOP
TMF		UTM	N Zone: 11 NAD83 GPS erfor: 11.7 m/	1001
	LAT 2.	4 1	86424 LONG 118.885071	
ecimal degrees:		+ ·	bearing ° inclination °	
PS within sta	nd? (Yes)/	No If No	, cite from GPS to stand: distance (m) beams UTMN	
and record: Ba	se point ID		Projected UTMS: UTME DEDT CENTE	(2)
Camera Name:	AS PHONE	Cardinal J	photos at ID point: PES Ca (1-00 OF F	,
)ther photos:			I Plat Dimensions 10 x 10 m RAR	tadiusm
stand Size (acres	s): <1, 1-5,	>5 P	lot Area (m ²): 100 / Plot Dimensions to $x_{}$ = x_{-	-25° > 25
Exposure, Actua	nl º: N	E NW	SE SW Flat Variable Steepness, Actual	inσ
Conogranhy:	Macro: top	upper	mid lower bottom Micro: convex) flat concave undulat	mg
Geology code:	1	Soil Tex	ture code: MELO [Upland or Wetland/Ripartan (choice one)	d mud)
Surface cove	r:	()	ncl. outerops) (>60cm diam) (25-60cm) (7.5-25cm) (2mm-7.5cm) (incl same	s: 9 3 =100%
H20: Ø BAS	tems: 2 Li	tter:	Bedrock: Boulder: Stone: Cobbie. Cobbie.	
% Current year	r bioturbation	1	Past bioturbation present? Yes No % Hoof punch T	
Fire evidence:	Val / No (cir	cle one) If	was describe in Site history section, including date of fire, if knowing	
Fire condenses	1 cg / Ito (ch	010 011-)	yes, describe in one money	
Cit histom: sta	nd age comm	ents:	yes, acsoride in one manage	
Site history, sta	nd age, comm	ents:	W 3155 2021	
Site history, sta FIRE: But	Ind age, comm	ents:	ON TOP OF A HELL WETH MODERATES	LOPEST
Site history, sta FIRE: BUI NATIJE	Ind age, comm	ients: ER JU SDS	ON TOP OF A HELL WETH MODERATES	LOPESI
Site history, sta FIRE: BUT NATIJE	Ind age, comm	Nents: ER JU SDS ,	T. Patchwork of puppys, fiddleneck, & Phacelia	LOPESI
Site history, sta FIRE: BUI NATISE Alliences	Ind age, comm and age, comm and a Rendering AR GRASSING	ients: IEA JU IDS , JUghdu	T. Patchwork of puppys, Eddlereck, & Phacelia	LOPESI
Site history, sta FIRE: BUI NATIJE Alliences	Ind age, commences AR GRASSIAN Vary the	ents: REA JU SDS, Wyhou	T. Patchwork of puppys, Eddlereck, & Phacelia	LOPES
Site history, sta FIRE: BUI NATIJE Allionces	Ind age, commenses AR GRASSING Vary Hu	nents: TRA JU SDS,	ON TOP OF A HELL WETH MODERATES t. Patchwork of puppys, Eddleneck, & Phacelia	LOPESI
Site history, sta FIRE: BUR NATISE Allionces	I day 100 (all and age, comm a web AR GRASSING Vary Ha	nents: RA JU MSS,	ON TOP OF A HELL WETH MODERATES	LOPESI
Site history, sta FIRE: BUR NATIJE Allionces	I day 100 (and and age, comm a web AR GRASSING Vary Ha	ents: ER JU SDS 1 - dughou	The state of puppys, foldleneck, & Phace has the state of puppys, foldleneck, & Phace has the state of puppys, fold leneck, & Phace has the state of	E 1-M
Site history, sta FIRE: BUR NATISE Alliences Disturbance co	Ind age, comm and ag	ents: 2025 - 1 - 201 y hou - (L,M,H):	051 <u>M</u> 1 1 1 1 1 Other" FIR	E_1_M
Site history, sta FIRE: BUR NATISE Allionces Disturbance c II. HABITAT	nd age, comm 2 web Ar GRASSLAD Vary Har ode / Intensity DESCRIPTIO	ents: 205 , 205 , -201 ghou (L,M,H): ON	05/M_/	E / M
Site history, sta FIRE: BUR NATIFE Alliences Disturbance c II. HABITAT	nd age, comm 2 125 AR GRASSLAD Vary Har ode / Intensity DESCRIPTIO 1 (<1" dbb), T	eents: ≈A J DS , - 2013 / 2013 (L,M,H): 0N 2 (1-6" dbh	05/M (11-24" dbh), <u>T5</u> (>24" dbh), <u>T6</u> multi-layered (T3 or T4 layered	<u>E</u> / <u>M</u> under T5, >60% cover
Site history, sta FIRE: But NATIJE Alliences Disturbance c II. HABITAT Tree DBH : T Sheeb: S1 Sec	nd age, comm 2 125 AR GRASSLAD Vary Har ode / Intensity DESCRIPTIO 1 (<1" dbh), Ti oding (<1 yr, gl	ents: ≈A J DS , -du ghou (L,M,H): 0N 2 (1-6" dbh' d), S2 yo	05 1 M 1 1 (11-24" dbh), <u>T5</u> (>24" dbh), <u>T6</u> multi-layered (T3 or T4 hayer ung (<1% dead), <u>S3</u> mature (1-25% dead), <u>S4</u> decadent (>25% dead)	<u>-E</u> / <u>M</u> under T5, >60% cover
Disturbance c I. HABITAT Tree DBH : <u>T</u> Shrub: <u>S1</u> second	ode / Intensity DESCRIPTIO 1 (<1" dbh), Ti adling (<3 yr. ol	rents: = A T = T = T = T = T = T = T = T = T = T	<u>05 / M</u> <u>14 (11-24" dbh), <u>T5 (>24" dbh), <u>T6</u> multi-layered (T3 or T4 hayer <u>13 (6-11" dbh), <u>T4 (11-24" dbh), <u>T5 (>24" dbh), <u>T6</u> multi-layered (T3 or T4 hayer ung (<1% dead), <u>S3</u> mature (1-25% dead), <u>S4</u> decadent (>25% dead)</u></u></u></u></u>	<u>E</u> / <u>M</u> under T5, >60% cover
Disturbance c I. HABITAT Tree DBH : I Shrub: SI see Shrub: SI see SI s	ode / Intensity DESCRIPTIO 1 (<1" dbh), <u>T</u> adding (<3 yr, ol adding (<3 yr, ol addi	ents: = A T = T = T = T = T = T = T = T = T = T	$\frac{05}{M} = \frac{1}{124} + \frac{1}{$	<u>E</u> / <u>M</u> under T5, >60% cover
Disturbance c I. HABITAT Tree DBH : I Shrub: S1 see Herbaceous; Desert Ripari	ode / Intensity DESCRIPTIO 1 (<12" plant in Tree/Shru Lachyn Tree Descrifyddi, Tr	tents: =A TTS $+TS$ $+$	$\frac{05}{M} = \frac{1}{128} = \frac{1}{$	<u>E</u> / <u>M</u> under T5, >60% cover
Disturbance c I. HABITAT Tree DBH : <u>T</u> Shrub: <u>S1</u> see Herbaceous; Desert Ripari Desert Palm/	ode / Intensity DESCRIPTION (<12" plant ding (<3 yr. ol Joshua Tree: Destarton (rents: = A T = T = T = T = T = T = T = T = T = T	$\frac{05}{M} = \frac{1}{1} = 1$	<u>E</u> / <u>M</u> under T5, >60% cover
Disturbance c I. HABITAT Tree DBH : <u>T</u> Shrub: <u>S1</u> see Herbaceous; Desert Ripari Desert Palm/, III. INTERPI	ode / Intensity Description (<12" plant (<12" plant an Tree/Shru Joshua Tree: RETATION ($\frac{1}{(L_{1}M,H)}$ $\frac{1}{(L_{1}M,H)}$ $\frac{1}{(L_{1}M,H)}$ $\frac{1}{(L_{1}M,H)}$ $\frac{1}{(L_{1}M,H)}$ $\frac{1}{(L_{1}-C^{2})}$	$\frac{05}{M} = \frac{1}{1200} + \frac{1}{$	<u>E</u> / <u>M</u> under T5, >60% cover
Site history, sta FIRE: BUR NATIFE: BUR NATIFE Alliences Disturbance c II. HABITAT Tree DBH : I Shrub: SI see Herbaceous; Desert Ripari Desert Palm/, III. INTERPI Field second	ode / Intensity Description (<12" plant dury flow Description (<12" plant an Tree/Shru Joshua Tree: RETATION (d vegetation A	rents: = A T = T = T = T = T = T = T = T = T = T	$\frac{05}{M} = \frac{1}{1200} + \frac{1}{$	<u>E</u> / <u>M</u> under T5, >60% cover
Site history, sta FIRE : BUR NATIFE Alliences Disturbance co II. HABITAT Tree DBH : I Shrub: SI see Herbaceous; Desert Ripari Desert Palm/, III. INTERPI Field-assesser	and age, comm and ag	tents: = A T T T T T T T T T	$\frac{05}{M} = \frac{1}{1200} + \frac{1}{$	<u>E</u> / <u>M</u> under T5, >60% cover
Site history, sta FIRE CHARACTY, sta FIRE : BUT NATIFE Alliences Disturbance co II. HABITAT Tree DBH : I Shrub: SI see Herbaceous; Desert Ripari Desert Palm/, III. INTERPI Field-assessee Field-assessee	and age, comm age, co	tents: = A T T T T T T T T T	$\frac{05}{M} = \frac{1}{1200} + \frac{1}{$	<u>E</u> / <u>M</u> under T5, >60% cover
Site history, sta FIRE CHARACTY, sta FIRE : BUT NATIFE Alliences Disturbance co II. HABITAT Tree DBH : I Shrub: SI see Herbaceous; Desert Ripari Desert Palm/, III. INTERPI Field-assesse Adjacent All	and age, comm and age, comm age, com	tents: = A T T T T T T T T T	$\frac{05}{M} = \frac{1}{1200} + \frac{1}{$	<u>E</u> / <u>M</u> under T5, >60% cover
Site history, sta FIRE : But NATIFE Alliences Disturbance co II. HABITAT Tree DBH : I Shrub: SI see Herbaceous; Desert Ripari Desert Palm/, III. INTERPI Field-assesse Adjacent All Confidence i	nd age, comm age, com	tents: = A T T T T T T T T T	$\frac{05}{M} = \frac{1}{1200} + \frac{1}{$	<u>E</u> / <u>M</u> under T5, >60% cover

<u>% Cove</u> <u>Height</u> Hei	Conifer tree / Hardwood tree: /	— Reg — Reg 5m, 5=5-1	9 gener gener Om,	6 NonVasc cover: Total % Vasc Veg cover: Q ating Tree: Shrub: I Herbaceous: 2.0 ating Tree: Shrub: I Herbaceous: 1.0 6=10-15m, 7=15-20m, 8=20-35m, 9=35-50m, 10=>50m 10=>50m 10=>50m
Stratum	Stratum categories: T=Tree, A = SA % Cover Intervals for reference: r = trace, + Species	pling, $E = S$ = <1%, 1-	SEedl	ing, S = Shrub, H= Herb, N= Non-vascular >5-15%, >15-25%, >25-50%, >50-75%, >75%
H	PMSinki- Jassall stra	4		That species determination
H	Eradium cicutaria	12	-	
H	Phacelia ciliata	2	1	
H	Mentzelia veatchiana	r	1	
Н	Dichellostema capitata	1	1	
17	Lupinus bicolor	< }		
17	Calystegia occidentalis	21		
2]	Bromus tectorum	r		
H	Bromus rubers	5		
124	Poa secunda	1		
H	Claytonia parviflora	۲		
G	Eriogonum sp.	21		
0	Ericametia nauseousa	1		
<u> </u>	Vropappas lindleyi	5		
H	Descaurica	C		
H	LUPIOUS Sp.	r,		
	Lowatium utricultatum	< 1		/
<u></u>	techolenia californicum	L C		(MANY OUTSEDE PLOT)
			-	
			+	
			-	
			-	
			+	
			-	

ripgut brome es resistance Combined Vegetation Rapid Assessment and Relevé Field Form rub backwad (Revised March 27, 2018) B. diandres Alliance Final database #: For Office Use: Final vegetation type: Association circle: Relevé or (RA I. LOCATIONAL/ENVIRONMENTAL DESCRIPTION Name of recorder: Date: Database #: MP Other surveyors: AH LG 0 HUSURA UID: 72 Location Name: П of Long / Short side For Relevé only: Bearing°, left axis at ID point_ Zone: 11 NAD83 GPS error: ft./ m./ PDOP ____ GPS name: UTMN UTME 1 6461 0965 5 LONG 9 3 Decimal degrees: LAT inclination of GPS within stand? Yes No If No, cite from GPS to stand: distance (m) bearing c UTMN Projected UTMs: UTME and record: Base point ID Camera Name: At those Cardinal photos at ID point: NESW 13:139 Other photos: RA Radius 60m Stand Size (acres): <1, 1-5, >5 | Plot Area (m²): 100 / ____ | Plot Dimensions m 0° (1-5°) > 5-25° > 25 Exposure, Actual °: 156 NE NW SE SW Flat Variable | Steepness, Actual °: 2 Micro: convex (flat) concave undulating Topography: Macro: top upper mid lower bottom Upland or Wetland/Riparian (circle one) Soil Texture code: ______ Geology code: (7.5-25cm) (2mm-7.5cm) (Incl sand, mud) (Incl. outcrops) (>60cm diam) (25-60cm) H20: () BA Stems: 2 Litter: 75 Bedrock: () Boulder: () Stone: () Cobble: () Gravel: 2 Fines: 20=100% % Current year bioturbation ____ Past bioturbation present? Yesy No | % Hoof punch ____ Fire evidence: Yes / No circle one) If yes, describe in Site history section, including date of fire, if known. Site history, stand age, comments: long strip along radiusly starting from plat center zone & stretching SE includes only a beginning a end. enhance stand -> by planting pales rduit, meds, trash road "Other" Disturbance code / Intensity (L,M,H): 05 / M **II. HABITAT DESCRIPTION** Tree DBH : T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" dbh), T4 (11-24" dbh), T5 (>24" dbh), T6 multi-layered (T3 or T4 layer under T5, >60% cover) П Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead), S3 mature (1-25% dead), S4 decadent (>25% dead) Herbaceous: H1 (<12" plant ht.),H2 (>12" ht.) Desert Riparian Tree/Shrub: 1 (<2ft. stem ht.), 2 (2-10ft. ht.), 3 (10-20ft. ht.), 4 (>20ft. ht.) Desert Palm/Joshua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 (>6" diam.) III. INTERPRETATION OF STAND Ward land Quercus Field-assessed vegetation Alliance name: Field-assessed Association name (optional): Adjacent Alliances/direction: Confidence in Alliance identification: L M (H) Explain: Phenology (E,P,L): Herb E Shrub E Tree E Other identification or mapping information:

base #:	SPECIE	2 2 H	
vegetation description over - Conifer tree / Hardwood tree:/ <u>tht Class</u> - Conifer tree / Hardwood tree:	Rege Rege n, 5=5-10	% I nerati nerat m, 6=	NonVasc cover: O Total % Vasc Veg cover: 17 ing Tree: O Shrub: 7 Herbaceous: 14 ing Tree: Shrub: 3 Herbaceous: 14 =10-15m, 7=15-20m, 8=20-35m, 9=35-50m, 10=>50m 10=>50m 10=>50m
Stratum categories: T=Tree, A = SApl % Cover Intervals for reference: r = trace, + =	ing, E = SI <1%, 1-5	Eedlir	1g, S = Shrub, H - Helb, N - Holl (action of the second se
tum Species	% cover	C	Final species determination
F QUERCUS lobata	6		
S Fricameria Nauseosa			
C Fricameria Palmeri	3		
S Peritoma arborea	4		4
E Evidention crassifolium	2	_	
S Rhampus ilicitolia	ſ		
S Evideonum Fasciculatum	(~
N Bromus diandrus	10		
H Bromus ectorum	4		
4 Blitum Californiam	ſ		
S I on icen subspicate sop denudato	r	-	
H Urapapeus lindleui	r		
H Griggerum Sza	r	_	
S Phocodeod con (mutletoe) 1		
Leucarpan			
5	-		
1			

r Office Use:	Final database #:	Final vegetation types	Landar Dalavo AF RA
OCATIONAL	ENVIRONMENTAL	DESCRIPTION	CIrcle: Releve of Real
tabase #:	Date:	Name of record	er: AH
ltabase "	04/1.3	A Other surveyor	s: DV, MP, LG, LV
	UID: Or	Location Name	: HUSURA
C	2 AT	For Relevé	é only: Bearing°, left axis at ID point of Long / Short side
PS name: _>	1 MJ	MIN	Zone: 11 NAD83 GPS error: ft./ m./ PDOP
TME	0	1.01710	IONG-1 8.852292
ecimal degrees:	LAT <u>5</u> 7	08170	
DS within star	nd? (Ves) No If	No, cite from GPS to stand: d	listance (m) bearing ° inclination °
and record: Bas	se point ID	Projected UTM	1s: UTME UTMN
and record. Dat	VT S9 Cardina	l photos at ID point: ド	ESW MODAM
ther photos:	DOTASHEET	PHOTO TAKE	NAFTER MEST
Land Size (oore)	0. <1. (1-5.)>5	Plot Area (m ²): 100 /	Plot Dimensions $x m$ $RA Radius 50 m$
Stand Size (acres	19:343 NE NW) SE SW Flat Varial	ble Steepness, Actual °: 0.5 0° 1-5 -5-25 - 25
saposure, actua		mid lower bottom	Micro: convex flat concave undulating
Copography: N	dacro: top upper	exture code: MESN	Upland or Wetland/Riparian (circle one)
Geology code:	30111	(Incl_outcrops) (>60cm dian	n) (25-60cm) (7.5-25cm) (2mm-7.5cm) (Incl sand, mud)
% Surface cover	r: James 7 Litter: 2	Bedrock: S Boulder	Stone: Cobble: 3 Gravel: 37 Fines: 54 -10070
H_20 : \emptyset BA SI	tems: 2 Entering	Past bioturbation prese	No 1 % Hoof nunch
0/. Current veat	bioturbation		nt? Yes No 70 Hoor participant
Fire evidence: Site history, sta	Yes (No (direle one) nd age, comments:	If yes, describe in Site histor by plot center in d pirton, dry viai	Interestion, including date of fire, if known. Jowlands of washing the hillsides, the but not active currently,
Site history, sta	res (No Gircle one) nd age, comments:	If yes, describe in Site histo by plot center in dipinan. dry was	Int? Tes No 1 hardon print from n. Invlands of wash, not ye hillsides.
Disturbance cc	yes (No Gircle one) nd age, comments: and a) > one dee ond a) > one dee bde / Intensity (L,M,F	D: 0516	Int? Tesp No 1 horizon provide and the providence of the state of the
Disturbance or	bioteristantia Yes (No Gircle one) and age, comments: and a) & one dea ond a) & one dea ode / Intensity (L,M,F DESCRIPTION	If yes, describe in Site histo M_{plot} certer in d_{pinon} , d_{yj} visit D: 051 \leq 1	It's test is in the particular of the integration including date of fire, if known. Including date of fire, if known. Including date of fire. Including date of fire.
Disturbance of II. HABITAT	bioteristica (L,M,F bioteristica (L,M,F DESCRIPTION 1 (<1" dbh), T2 (1-6" dt	If yes, describe in Site histo M_{plot} certer in M_{plot} certer in M_{plot} and M_{plot} M_{plot} certer in M_{plot} certer in M_{pl	Int? Tesp 100 1 100 pt in the point of the provided of the point of
Disturbance co II. HABITAT Tree DBH : <u>T</u> Shrub: <u>S1</u> sec	bioteristation Yes (No Gircle one) nd age, comments: ond(a) & one dea ode / Intensity (L,M,F DESCRIPTION 1 (<1" dbh), T2 (1-6" dt cdling (<3 yr. old), S2 (If yes, describe in Site histo M_{p} [lot certer in M_{p} flot certer i	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Disturbance co II. HABITAT Tree DBH : <u>T</u> Shrub: <u>S1</u> sec Herbaceous:	bioteristica (Yes (No Gircle one) nd age, comments: ond(a) & one dea ond(a) & one dea one dea o	The set of	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Disturbance co I. HABITAT Tree DBH : T Shrub: S1 sec Desert Ripari	bit $T_{All}(a)$ Yes (No Gircle one) and age, comments: and age, comments: age, comments: ag	The set of	1. 1. It is the second seco
Disturbance co I. HABITAT Tree DBH : T Shrub: S1 sec Herbaceous: Desert Ripari Desert Palm/J	bit $T_{All OA}$ Yes (No Gircle one) nd age, comments: onit(a) > one dea onit(a) > onit(a) > onit(a) > one dea onit(a) > one dea onit(a) >	The first of the initial prime prim	1. 1. In the second
Disturbance co I. HABITAT Tree DBH : <u>1</u> Shrub: <u>S1</u> sec Herbaccous: Desert Ripari Desert Palm/J III. INTERPI	bit $(J_{All}, M_{All}, M_{Al$	The order of the initial products the product of the initial product of the initial product of the product of	$\frac{1}{24^{\prime\prime} \text{ dbh}}, \frac{T5}{T5} (>24^{\prime\prime} \text{ dbh}), \frac{T6}{T6} \text{ multi-layered (T3 or T4 layer under T5, >60% cover)} \\ 3 (10-20ft. ht.), 4 (>20ft. ht.) \\ \text{m.}, 3 (>6^{\prime\prime} \text{ diam.}) \\ \end{array}$
Disturbance cc I. HABITAT Tree DBH : <u>T</u> Shrub: <u>S1</u> sec Herbaceous: Desert Ripari Desert Palm// <u>HI. INTERPI</u>	bit J_{Allow} Yes (No Gircle one) and age, comments: and age, comments: and age, comments: and age, comments: and age, comments: and age, comments: and age, comments: bit J_{Allow} bit J_{Allow} and J_{Allow} bit J_{Allow} and J_{Allow} bit J_{Allow}	The second seco	1.12 Les No 1 As not performent. Int less performance in the section of the section including date of fire, if known. Int less performance in the section of the section of the section including date of fire, if known. Int less performance in the section of the
Disturbance cc I. HABITAT Tree DBH : <u>T</u> Shrub: <u>S1</u> sec Herbaceous: Desert Ripari Desert Palm/J HI. INTERPI Field-assessed	yes No gircle one) nd age, comments: onita) & one dea onita) & onita) &	The second seco	Int? Ces No + No Hor P in Known. Joulands of wash, not ye hillsides. In bat not achive currently.
Disturbance cc Disturbance cc Disturbance cc I. HABITAT Tree DBH : <u>T</u> Shrub: <u>S1</u> sec Herbaceous: Desert Ripari Desert Palm/J III. INTERPI Field-assessec Field-assessec	yes No circle one) nd age, comments: onita) & one dea ode / Intensity (L,M,F DESCRIPTION 1 (<1" dbh), T2 (1-6" dt dding (<3 yr. old), S2 : 11 (<12" plant ht.) H2 (an Tree/Shrub: 1 (<1.5" RETATION OF STAT d vegetation Alliance d Association name (ci- innor/direction)	The set of	Int? Ites 1/10 The first if known. Invlinds of wash, not yo hillsides. In bat not achive currently. Image: state of the state
Disturbance cc Disturbance cc Disturbance cc I. HABITAT Tree DBH : <u>T</u> Shrub: <u>S1</u> sec Herbaceous: Desert Ripari Desert Palm/J III. INTERPI Field-assessec Adjacent All	Yes No Gircle one) nd age, comments: onida) and age, comments: onida) and age, comments: onida) and age, comments: onida) and age, comments: fl (<1" dbh), T2 (1-6" dt	The set of	Int? Ites 1/0 The fire, if known. Invlands of wash, not yo hillsides. In bat not achive currently, Image: Intervention of the fire, if known. Image: Intervention of the fire. I
Disturbance ce Disturbance ce I. HABITAT Tree DBH : T Shrub: <u>S1</u> sec Herbaceous: Desert Ripari Desert Palm/A III. INTERPI Field-assessed Adjacent All Confidence i	No (direle one) nd age, comments: onida) and the second	The second seco	Inf? Ites Ites Itends <

Combined Vegetation	Rapid Assessment and	Releve Field Form
0	(Revised March 27, 2018)	

IN LUE

Ľ	Database #:	BI DOLD.		
T	V. VEGETATION DESCRIPTION		a la construcción de la construc	The New Yor cover: 17
			% 1	NonVasc cover: Total % vasc veg cover
	Cover - Conifer tree / Hardwood tree:	Regen	erati	ing Tree: Shrub: 18 Herbaceous:
-	Height Class - Conifer tree / Hardwood tree:	Reger	erat	ing Tree: Shrub: Herbaceous
-	Height classes: 1=<1/2m, 2=1/2-1m, 3=1-2m, 4=2-5n	n, 5=5-10n	n, 6=	=10-15m, 7=15-20m, 8-20-55m, 9-55 55m, 12
-	Stratum categories: T=Tree, A = SApli	ing, $E = SE$	edlin	S = Shrub, H = Herb, N = Non-vascular > 15% > 25-50%, > 50-75%, > 75%
	% Cover Intervals for reference: r = trace, + =	<1%, 1-3	70, C	Final species determination
	Stratum Species	-7.5		
L	5 Arctostaphylosglauca	7	-	
	S Lepidostartum salama um	11		
	Epicameria nauseas	-1		
L	S Artemesia Tridenitary	21	-	
l	S Eriogonum tasciculation	11	-	
	5 Peritoma arboreg			
	> Acmispon glapes	1-	-	
	T Pinus manophylla	F	1	-
	T Juniperus dali Pornius	1	+	
	5 Overcusjong-tuden	5	1	
	S Guiterrezia Sarotinae	r	1	
	5 Ephedra Viridis	F		
	S Hesperoyucca whippier	1	-	
	SAMENISia palmeri		-	
		r	1	
	H Bromvssp.	v	1	8
	H Locgeliastrum schotti	r		
	H Eradium action 10m	r		
	H Eventophona boomin	F		
	A Cryptar Ind Spp.			
		a.		
			_	
	The second			

or Office Use:	Fillal Gatabase	Final vegetation type:	circle: Releve of NA
LOCATIONAL	INVIRONMENTAL	DESCRIPTION	chele. Relation
LUCATIONAL/	Date:	Name of recor	der: JV
atabase #.	04/13	A Other surveyo	rs: AH, MP, LG, LO
	TID: M9	Location Nam	e: HUSURA
TDC		For Relev	vé only: Bearing°, left axis at ID point of Long / Short side
PS name:		MIN	Zone: 11 NAD83 GPS error: ft./ m./ PDOP
JTME			LONG 1 1 8 . 8 5 0 7 9 7
Decimal degrees:	LAT <u>3 9</u>	66910	
PS within stan	d? Yes / No If N	lo, cite from GPS to stand:	distance (m) bearing ° inclination °
and record: Base	point ID	Projected UT	Ms: UTME UTMN
Camera Name: P	H Phane Cardinal	l photos at ID point: 🛝	IESW
Other photos:	11 (Hurde		p+ n-dim 25 m
El dEizo (aaros)	<1 (1-5) >5	Plot Area (m ²): 100 /	Plot Dimensions x m RA Radius - m
Stand Size (acres)	0. 258 NE NW	SE SW Flat (Varia	able) Steepness, Actual °: 15 0° 1-5° >5-25' >25
Exposure, Actuar	· <u></u> 1142	D lawar battan	n Micro: convex flat concave undulating
Topography: M	acro: top upper	mid lower botton	Upland or Wetland/Riparian (circle one)
Geology code:	Soll 10	Ature coue	am) (25-60cm) (7.5-25cm) (2mm-7.5cm) (Incl sand, mud)
% Surface cover:	0.000	(Incl. outcrops) (>60cm dia	r: Stone: Cobble: Gravel: 45 Fines: 49 =100%
H20: () BA Ste	ms: 3 Litter:	Beurock. D Bound	12 Nos No 1 % Hoof punch
% Current year	pioturbation	Past bioturbation press	enti ito ito
	6	to Janatha in Site hist	tory section, including date of fire, if known.
Fire evidence: Y Site history, stan	d age, comments:	If yes, describe in Site hist Climbed up steep	hill on backgide & looked and at bould hallay.
Fire evidence: M Site history, stan Hillsides M	d age, comments: Arhed ld ges.	If yes, describe in Site hist climbed up steep Juniper Yully J	tory section, including date of fire, if known. hill on backgide & looked ant at bould hallay. tand, not pikon hillside.
Fire evidence: Y	d age, comments: - Ar hed ld ges.	If yes, describe in Site hist climbed up steep Sunjper Yullin s	tory section, including date of fire, if known. hilton backfide & looked ant at bould hallay. tand, not pikon hillside.
Fire evidence: Y	dage, comments: a ched ld ges.	If yes, describe in Site hist climbed up steep Suniper Yullin S	hill on backfide & looked ant at bould y. tand, not piñon hillside.
Fire evidence: Site history, stan	dage, comments: A rhed ld ges.	If yes, describe in Site hist climbed up steep Sunjper yullus	tory section, including date of fire, if known. hilt on backgide & looked ant at bould hallay. tand , not pikan hillside.
Fire evidence: S Site history, stan Hillsides M Disturbance coo	te / [No deircle one) d age, comments: - ar hed ld ges.	If yes, describe in Site hist climbed up freep Suriper yulling): 0512_1_	hill on backfide & looked and at boul halbay. tand, not pikon hillside.
Fire evidence: Y Site history, stan Hillsides M Disturbance coo I. HABITAT I	le / Intensity (L,M,H ESCRIPTION	If yes, describe in Site hist climbed up theep Suniper yullers): 0512_1_	hill on backfide & looked and at bould hallay. tand, not pikon hillside.
Disturbance coo I. HABITAT I Tree DBH : T1	ies / (No deirele one) dage, comments: -ar hed ld ges. le / Intensity (L,M,H ESCRIPTION (<]" dbh), <u>T2</u> (1-6" db	If yes, describe in Site hist climbed of theep Suniper Juliu J): 05/L h), (13 (6-11" dbb), 14 (11.	hill on back side & looked and at bould hallay. tand , not pikon hills de .
Disturbance coo I. HABITAT I Tree DBH : <u>T1</u> Shrub: S1 seed	te / [No deircle one) d age, comments: - Ar hed ld ges. he / Intensity (L,M,H ESCRIPTION (<1" dbh), <u>12</u> (1-6" db ling (<3 yr. old), <u>52</u> y	If yes, describe in Site hist Climbed of theep Shaper Julia S): 05/L / h), 13 (6-11" dbb), 14 (11. oung (<1% dead), \$3 math	hilton backfide & looled ant at bout hallay. tand , not pikon hillside.
Disturbance coo II. HABITAT I Tree DBH : <u>TI</u> Shrub: <u>SI</u> seed	le / Intensity (L,M,H ESCRIPTION (<1" day, ed b), <u>12</u> (1-6" db ling (<3 yr. old), <u>52</u> y	If yes, describe in Site hist Climbed of theep Shaper Julia Juli	hilton backfide & looled ant at bout hallay. tand , not pikon hillside.
Disturbance coo I. HABITAT I Tree DBH : <u>T1</u> Shrub: <u>S1</u> seed Herbaceous; <u>H</u> Desert Riparia	le / Intensity (L,M,H ESCRIPTION (<1" day, ed b), <u>T2</u> (1-6" db ling (<3 yr. old), <u>S2</u> y <u>L</u> (<12" plant ht.) <u>H2</u> (°a Gree/Shrub: 1 (<2	If yes, describe in Site hist Climbed of theep Juniper Juliu J): <u>051L</u> h), <u>13</u> (6-11" dbb), <u>T4</u> (11. oung (<1% dead), <u>S3</u> math >12" ht.) ft. stem ht.), 2 (2-10ft. ht.),	hilton backfide & looled ant at bout hallay. tand , not pikon hillside.
Disturbance coo I. HABITAT I Tree DBH : <u>T1</u> Shrub: <u>S1</u> seed Herbaceous: <u>H</u> Desert Riparia Desert Pelm/M	le / Intensity (L,M,H ESCRIPTION (<1" day, ed b), <u>T2</u> (1-6" db ling (<3 yr. old), <u>S2</u> y (<12" plant ht.) <u>H2</u> (°a n Tree/Shrub: 1 (<2 shua Tree: 1 (<1.5"	If yes, describe in Site hist Climbed of theep Juniper Julius): <u>051L</u> h), <u>13</u> (6-11" dbb), <u>T4</u> (11. oung (<1% dead), <u>S3</u> math >12" ht) ft. stem ht.), 2 (2-10ft. ht.), base diameter), 2 (1.5-6" diameter), 3 (1.5	<pre>intro section, including date of fire, if known. hill on backfide & looled ant at bould halley. trod , not pikon hillside. </pre>
Disturbance coo I. HABITAT I Shrub: <u>S1</u> seed Herbaceous: <u>H</u> Desert Palm/Jo UL DEEPEP	le / Intensity (L,M,H ESCRIPTION (<1" day, ed ld ges. (<1" dbh), <u>T2</u> (1-6" db ling (<3 yr. old), <u>S2</u> y <u>L</u> (<12" plant ht.) <u>H2</u> (a Tree/Shrub: 1 (<2 shua Tree: 1 (<1.5" <u>CTATION OF STAN</u>	If yes, describe in Site hist Climbed of theep Juniper Julius): <u>051L</u> h), <u>13</u> (6-11" dbh), <u>14</u> (11. oung (<1% dead), <u>S3</u> math >12" ht) ft. stem ht.), 2 (2-10ft. ht.), base diameter), 2 (1.5-6" di (D	<pre>iter section, including date of fire, if known. hill on backfide & looked ant at bould hallay. trad , not piken hillside. </pre>
Disturbance coo I. HABITAT I Tree DBH : <u>T1</u> Shrub: <u>S1</u> seed Herbaceous: <u>H</u> Desert Riparia Desert Palm/Jo III. INTERPR	le / Intensity (L,M,H ESCRIPTION (<1" day, ed ld ges. (<1" dbh), <u>T2</u> (1-6" db ling (<3 yr. old), <u>S2</u> y <u>L</u> (<12" plant ht.) <u>H2</u> (°a n Tree/Shrub: 1 (<2 shua Tree: 1 (<1.5"	If yes, describe in Site hist Climbed of theep Juniper Julius): <u>051L</u> h), <u>13</u> (6-11" dbb), <u>T4</u> (11- oung (<1% dead), <u>S3</u> math >12" ht.) ft. stem ht.), 2 (2-10ft. ht.), base diameter), 2 (1.5-6" di (D	<pre>intro section, including date of fire, if known. hill on backfide & looked ant at bould hallay. trad _ nat pikon hillside . </pre>
Disturbance coo I. HABITAT I Tree DBH : <u>T1</u> Shrub: <u>S1</u> seed Herbaceous: <u>H</u> Desert Riparia Desert Palm/Jo <u>H. INTERPR</u> Field-assessed	le / Intensity (L,M,H ESCRIPTION (<1" day, ed. (4 ges. (1" dbh), <u>T2</u> (1-6" db ling (<3 yr. old), <u>S2</u> y <u>L</u> (<12" plant ht.) <u>H2</u> (°a n Tree/Shrub: 1 (<2 shua Tree: 1 (<1.5" ETATION OF STAM vegetation Alliance r	If yes, describe in Site hist Climbed of feef Juniper Juliu J): 05/L // h), 13 (6-11" dbb), 14 (11- oung (<1% dead), 53 math >12" ht.) ft. stem ht.), 2 (2-10ft. ht.), base diameter), 2 (1.5-6" di ID mame: Juniper Market	<u>hilton backfide & Ibaled ant at boul fraility</u> . <u>tand i nat pikon hillside</u> . <u>i and i </u>
Fire evidence: S Site history, stan Hillsides M Disturbance coo II. HABITAT I Tree DBH : <u>T1</u> Shrub: <u>S1</u> seed Herbaceous: <u>II</u> Desert Riparia Desert Palm/Jo III. INTERPR Field-assessed Field-assessed	ies / (No circle one) d age, comments: Ar hed ld ges. le / Intensity (L,M,H ESCRIPTION (<1" dbh), <u>T2</u> (1-6" db ling (<3 yr. old), <u>S2</u> y <u>L</u> (<12" plant ht.) <u>H2</u> (?a a Tree/Shrub: 1 (<2 shua Tree: 1 (<1.5" <u>ETATION OF STAM</u> vegetation Alliance r Association name (or	If yes, describe in Site hist C_1 abed of the first D_1 abed of the first D_2 abed of the first abed of the first D_2 abed of the first abed of the first abed of the first D_2 abed of the first abed of the firs	Littory section, including date of fire, if known. hill on backfide & looked ant at bould halley. tend , not pikon hillside.
Fire evidence: Y Site history, stan Hillsides M Disturbance coo II. HABITAT I Tree DBH : <u>T1</u> Shrub: <u>S1</u> seed Herbaceous: <u>H1</u> Desert Riparia Desert Riparia Desert Palm/Jo III. INTERPR Field-assessed Adjacent Allia	ies / (No circle one) d age, comments: Ar hed ld ges. le / Intensity (L,M,H ESCRIPTION (<1" dbh), <u>T2</u> (1-6" db ling (<3 yr. old), <u>S2</u> y <u>L</u> (<12" plant ht.) <u>H2</u> (>a a Tree/Shrub: 1 (<2 shua Tree: 1 (<1.5" <u>ETATION OF STAM</u> vegetation Alliance r Association name (or nees/direction:	If yes, describe in Site hist C_{11}^{inbed} up freep J_{11}^{inbed} up freep J_{11}^{inbed} up freep J_{11}^{inbed} up freep h), $\underline{T3}$ (6-11" dbb), $\underline{T4}$ (11- oung (<1% dead), $\underline{S3}$ math >12" ht.) ft. stem ht.), 2 (2-10ft. ht.), base diameter), 2 (1.5-6" di $\underline{S3}$ math $\underline{S3}$ math	intervention including date of fire, if known. hill on backfide & looled ant at bould halley. tend i not piken hillside.
Fire evidence: Y Site history, stan Hallsides M Disturbance coo II. HABITAT I Tree DBH : T1 Shrub: S1 seed Herbaceous: II Desert Riparia Desert Palm/Jo III. INTERPR Field-assessed Adjacent Allia	le / Intensity (L,M,H ESCRIPTION (<1° dbh), <u>T2</u> (1-6° db ling (<3 yr. old), <u>S2</u> y (<12° plant ht), <u>H2</u> (2 a Tree/Shrub: 1 (<2 shua Tree: 1 (<1.5° ETATION OF STAN vegetation Alliance r Association name (op nces/direction:	If yes, describe in Site hist C_1 in bed of the f D_1 is D_2 in the f D_2 in the f D_2 is D_2 in the f D_2 in the f D_2 in the f D_2 is D_2 in the f D_2 in the f in the f D_2 in the f D_2 in the f D_2 in the f D_2 in the f in the f D_2 in the f in the f D_2 in the f D_2 in the f D_2 in the f D_2 in the f in the f D_2 in the f in the f D_2 in the f in the f D_2 in the f D_2 in the f D_2 in the f D_2 in the f in the f D_2 in the f in the f D_2 in the f D_2 in the f D_2 in the f D_2 in the f in the f D_2 in the f in the f	1. It is section, including date of fire, if known. Init on backfide & looked and at bould halley. I and piken hillside. I and piken hill
Fire evidence: Y Site history, stan Hillsides M Disturbance coo II. HABITAT I Tree DBH : <u>T1</u> Shrub: <u>S1</u> seed Herbaceous: <u>H</u> Desert Riparia Desert Riparia Desert Palm/Jo <u>III. INTERPR</u> Field-assessed Adjacent Allia Confidence in	le / Intensity (L,M,H ESCRIPTION (<1° dbh), <u>T2</u> (1-6° db ling (<3 yr. old), <u>S2</u> y (<1° plant ht), <u>H2</u> (2 a Tree/Shrub: 1 (<2 shua Tree: 1 (<1.5° ETATION OF STAN vegetation Alliance r Association name (op nces/direction:	If yes, describe in Site hist C_1 in bed of the f D_1 is D_2 in the f D_2 in the f D_2 is D_2 in the f D_2 is D_2 in the f D_2 in the f D_2 in the f D_2 is D_2 in the f D_2 in the f D_2 is D_2 in the f D_2 in the f in the f D_2 in the f D_2 in the f D_2 in the f D_2 in the f in the f D_2 in the f D_2 in the f D_2 in the f D_2 in the f in the f D_2 in the f in the f D_2 in the f in the f D_2 in the f D_2 i	And the section including date of fire, if known. hill on backfide & looked and at bould hallay. tord i not pikon hillside.

Combined	Vegetation	Rapid	Assessmen	t and	Relevé	Field	Form
Comonica		(Revised	d March 27, 201	8)	*		
		SPEC	CIES SHEET				

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114040				
. VEG	ETATION DESCRIPTION			D Total 9/ Vase Veg cover: 13
			%	NonVasc cover: Iotal % vasc veg cover
Cover	- Conifer tree / Hardwood tree:	Reger	nerat	ing Tree: Shrub: Herbaceous:
eight C	lass - Conifer tree / Hardwood tree:	Rege	nerat	ting Tree: Shrub: Herbactous:
Heig	ght classes: 1=<1/2m, 2=1/2-1m, 3=1-2m, 4=2-5m	n, 5=5-101	m, 6ª	=10-15m, 7=15-20m, 8=20-35m, 9=55-56m, 10 + 56m
	Stratum categories: T=Tree, A = SApli	ing, E = SI	Eedlin	ng, S = Shrub, H= Herb, N= Non-vascular 51500 > 152500 > 25-50% > 50-75% > 75%
	% Cover Intervals for reference: r = trace, +=	<1%, 1-5	%, C	Final species determination
ratum	Species	76 COVCI		A Mart of Line
T	Junivervs californicus	П		
Ś	aproved john tucker		-	
S	HERETO VUCTO Whipplei	. 3	-	
S	Fricamenia linearifolia	1		
0	Exicony for charly a fun (pol	.) 3:	-	
S	Ephadra Nivide	r	-	
H	Amain kin tessilatio	r		
H	Look Suce blocki	r		
11	Sting Spelasa	ŕ		
H	Malica imperfecta	r		
11	Photochia distans	r		
11	Promis So	6		
11	Salvia callembariae	r		
11.	Curitorthe SB	r		
11	Pro Securia	r		· ·
1-1	Mantzalia Vertehidha	r		
11	Culouine coulted	r		
H	Render Alberts	r		
+	Drowing social Davila	< 1		
G	Asstatiation of the	٢		
.1	Theastaphyns grande	6		
H	Leymus condensations			
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-				

For Office Use	Final database #:	(Revised	March 27, 2018)	-	white Buttle to Mass
For Onice Ose.	r mai uatabase #.	Final vegetation type:	Association	and the second second	
I. LOCATIONAL/I	ENVIRONMENTAL	DESCRIPTION		circle: Re	levé or RA
Database #:	Date:	Name of record	er: Jessi Vamat	6	\smile
	04/1/2	022 Other surveyor	s: AJ, Heredia, "	reah Gordner, M	elissa Patten
	UID: [0]	Location Name:	: Hungry Valley.	SVRA '	
GPS name:		For Relevé	only: Bearing°, left a	cis at ID point of	Long / Short side
UTME	UTN	4N	Zone: 11	NAD83 GPS error: ft	./ m./ PDOP
Decimal degrees:	 LAT		LONG		
Deennar degrees.				••••••••••••••••••••••••••	
GPS within stand	? (Yes / No If No	o, cite from GPS to stand: di	stance (m) bearin	g° inclination°_	
and record: Base p	ooint ID	Projected UTMs	s: UTME	UTMN	
Camera Name: AL	t Phone Cardinal	photos at ID point: 08	159		
Other photos:	hastos taken just	above cottonwood b	y plat center		
Stand Size (acres):	<1, 1-5, >5 P	lot Area (m ²): 100 /	Plot Dimensions	xm R	A Radius <u>40</u> m
Exposure, Actual °:	110 NE NW	SE SW Flat Variable	e Steepness, Actual °	: 0° 1-5°	>5-25° >25
Topography: Mac	cro: top upper	mid (lower bottom)	Micro: convex	flat (concave) und	ulating
Geology code:	Soil Text	ture code: MFCL	Upland or We	tland/Riparian (circle o	one)
% Surface cover:	(Iı	ncl. outcrops) (>60cm diam)	(25-60cm) (7.5-25c	cm) (2mm-7.5cm) (Incl	sand, mud)
H20: 5 BA Stems	s: 5 Litter: 19	Bedrock: O Boulder:	O Stone: O Cobbl	e:< Gravel: J	Fines: 0 =100%
% Current year bio Fire evidence: Ves	turbation <u>3</u> 1	Past bioturbation present	? Yes / No %]	Hoof punch	
Site history, stand a	ge, comments: in	that area where	creek is but :	steep slopes ~ 1	45° on each
Cottonwood & Freekay Species on	x willow Ita on other R Slopes. Conned	I whan abund spanan alla wina & damaged col	unic of experi d was affected y honoroods	ired. Road o. Irees. Mure up	n che side land plant
Cottonwood & freeway Species on	x willow Ita on other R super. Powned	d which abound silfering airles wind & damaged with rowind d	unic of experi d vas affected y honoroods	ired. Road o. Irecs. Mure np	n one side land plant
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Cofforwood Species on Species on Disturbance code / I II. HABITAT DESC Tree DBH : <u>T1</u> (<1" Shrub: <u>S1</u> seedling Herbaceous; <u>H1</u> (<1	t will w I for on other k Super. Powned Intensity (L,M,H): CRIPTION dbh), <u>T2</u> (1-6° dbh) (<u>1</u> (<3 yr. old), <u>S2</u> young 2° plant ht.), <u>H2</u> (>12°	1 1. (an abund iparian arla, wind 8 damaged wi 5/H 13/M 13 13 (6-11" dbh), <u>14</u> (11-24" d g (<1% dead), (S3 mature (1 ht.)	the state of experiments of experiments of experiments of experiments of the state	wed, Road or hees, Mure np "Other" nulti-layered (T3 or T4 lay t (>25% dead)	n one side land p bat
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Cofforwood Species on Species on Species on Disturbance code /I II. HABITAT DESC Tree DBH : <u>T1</u> (<1" Shrub: <u>S1</u> seedling Herbaceous <u>F11</u> (<1 Desert Riparian Tr Desert Palm/Joshua	x will w I for on other . k Super. Oarned Intensity (L,M,H): CRIPTION dbh), T2 (1-6" dbh) (T (<3 yr. old), S2 young 2" plant hL) H2 (>12" cer/Strub: 1 (<20. stac Tree: 1 (<1.5" base TION OF STAND	1 wind d ipanga orla wind * damaged wind *	$\frac{cn(c of ecept(1))}{bn w pod(1)}$ $\frac{cnage}{bn w pod(1)}$ $\frac{cnage}{bh}, \underline{T5} (>24" dbh), \underline{T6} m$ $-25\% dead), \underline{S4} decadem$ $-20ft. ht.), 4 (>20ft. ht.)$ $3 (>6" diam.)$	veed, Road or hees, Mure np "Other" nulti-layered (T3 or T4 lay t (>25% dead)	n one side land p bat
Cofforwood Specify on Specify on Disturbance code / I II. HABITAT DESC Tree DBH : <u>T1</u> (<1" Shrub: <u>S1</u> seedling Herbaceous (<u>H1</u> (<1 Desert Riparian Tr Desert Palm/Joshua III. INTERPRETAT	x will w I for on other . k Super. Oanned Intensity (L,M,H): CRIPTION dbh), T2 (1-6" dbh) T (<3 yr. old), S2 young 2" plant hL) H2 (>12" ee/Shrub: 1 (<2ft. stee Tree: 1 (<1.5" base TION OF STAND	1 when a bund ifanga arla wind 2 damaged win	an(c of experiments of experiments of experiments of experiments of experiments of experiments of the expe	veed: Road or hees, Mure np "Other" nulti-layered (T3 or T4 lay t (>25% dead)	n one side land plant l er under T5, >60% cover)
Co Ho nwood Speciel on wood Speciel on wood Speciel on wood Disturbance code / I II. HABITAT DESC Tree DBH : <u>T1</u> (<1" Shrub: <u>S1</u> socdling Herbaceous <u>H1</u> (<1 Desert Riparian Tre Desert Palm/Joshua II. INTERPRETAT Field-assessed voted	x will w I for on other . k Super. Oowned Intensity (L,M,H): CRIPTION dbh), T2 (1-6" dbh) T (<3 yr. old), S2 young 2" plant ht.) <u>H2</u> (>12" ce/Shrub: 1 (<2ft. stee T TCN OF STAND tation Alliance name	1 wh an abund ipanga arla wina 2 damaged wi 2 damaged wi wind d 05/H 12/M 13 (11-24" d g (<1% dead), (23 mature (1- ht.) em ht.), 2 (2-10ft. ht.), 3 (10 diameter), 2 (1.5-6" diam.), : 11B. (2 Pro.	an(c of experiments) bn wpodi $anage5/L /$	red Road or hees, Mure np _/ "Other" nulti-layered (T3 or T4 lay t (>25% dead)	er under T5, >60% cover)
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Cofforwood Cofforwood Species on Species on Disturbance code // II. HABITAT DESC Tree DBH : <u>T1</u> (<1" Shrub: <u>S1</u> seedling Herbaceous <u>H1</u> (<1 Desert Riparian Tr Desert Palm/Joshua <u>H1. INTERPRETA</u> Field-assessed veget Field-assessed Asson	x will w Jta on other . k Super. Conved Intensity (L,M,H): CRIPTION dbh), T2 (1-6" dbh) T (<3 yr. old). S2 young 2" plant ht.) <u>H2</u> (>12" ce/Shrub: 1 (<20. stee 1 Tree: 1 (<1.5" base TION OF STAND tation Alliance name ciation name (option: dimension:	$\frac{1}{12} \frac{1}{12} \frac$	ch (c of experi 1 vos afleated y baugods amage 5/1 / / lbh), T5 (>24" dbh), T6 m -25% dead), S4 decadem +20ft. ht.), 4 (>20ft. ht.) 3 (>6" diam.)	red Road or hees, Mure np _/ "Other" nulti-layered (T3 or T4 lay t (>25% dead)	er under T5, >60% cover)
Coff o nwood Species on species of the species of	x will w Jta on other . k Super. Conved Intensity (L,M,H): CRIPTION dbh), T2 (1-6" dbh) T (<3 yr. old). S2 young 2" plant ht.) H2 (>12" ce/Shrub: 1 (<21: stee 1 Tree: 1 (<1.5" base TION OF STAND tation Alliance name ciation name (option: direction:	1 tr (an abund) $\frac{1}{2} panga a.Pla tr} (a) tr} \frac{1}{2} damaged and (a) tr} \frac{1}{2} (a) tr} (a) tr}$	ance of ecepting 1 vos afleated y barboods amage 5/12// 1 1 1 25% dead), 54 decadent -20ft. ht.), 4 (>20ft. ht.) 3 (>6° diam.) -2055 frempatic	reed: Road or hees, Mure up _/Other" nulti-layered (T3 or T4 lay t (>25% dead)	er under T5, >60% cover)
Coff o nwood Coff o nwood Special on Special on Disturbance code / I II. HABITAT DESC Tree DBH : <u>T1</u> (<1" Shrub: <u>S1</u> seedling Herbaceous <u>H1</u> (<1 Desert Riparian Tro Desert Palm/Joshua <u>H1. INTERPRETA</u> Field-assessed veget Field-assessed Asson Adjacent Alliances/ Confidence in Allian	x will w Jta on other . k Super. Oowned Intensity (L,M,H): CRIPTION dbh), T2 (1-6" dbh) T (<3 yr. old). S2 young 2" plant ht.) H2 (>12" ce/Shrub: 1 (<2ft stee 1 Tree: 1 (<1.5" base TION OF STAND tation Alliance name ciation name (option: direction: nce identification: I	$\frac{1}{1000} \frac{1}{1000} \frac{1}{1000$	ance of ecoper 1 vos afleated y barboods amage 5/12 / 1 1 25% dead), 54 decadent 1-20ft. ht.), 4 (>20ft. ht.) 3 (>6" diam.) 1 2005 frempatic 1 2005 AN Associ	red Road or hees, Mure op _/Other" nulti-layered (T3 or T4 lay t (>25% dead) COTTON 0000	n one side land p bat

V. VEC	GETATION DESCRIPTION					
<u>6 Cove</u> leight (Heij	r - Conifer tree / Hardwood tree:/]] <u>Class</u> - Conifer tree / Hardwood tree:/ 5 ght classes: 1=<1/2m, 2=1/2-1m, 3=1-2m, 4=2-5r	Rego Rego n, 5=5-10	% enera enera m, 6	NonVasc cover: Dotal % Vasc Veg cover: O ting Tree: Shrub: Herbaceous: 34 ting Tree: Shrub: Herbaceous: 1 =10-15m, 7=15-20m, 8=20-35m, 9=35-50m, 10=>50m		
Stratum categories: T=Tree, A = SApling, E = SEedling, S = Shrub, H= Herb, N= Non-vascular % Cover Intervals for reference: r = trace, + = <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, >75%						
ratum	Species	% cover	C	Final species determination		
T	Populus freemontii	5				
T	Salix lasiandra	G				
1	Sombucus committee nigr	a 1				
ŝ	Ericameria nauseo.sa	6				
9	Peritoma arborea	5				
9	Baccharis pilularis	7				
H	Lepidium lattfolium	30				
H	Descavrina Pinnata	4				
14	Anthrisuscavealis	21				
12	Bromus tectorum	21				
H	Bramus Nupens	4				
Het	unknown thistle	r				
H	Clamtonia pariflora	r				
	athen weedy mustardst	6		5		
	vasses + thistle	\$				
			-			
		1				
		1				
		1	1			
-			1			
			1			
			1			
		-	-			
			+			
		+	+			
		+	+			
			-			
		1				

Appendix C: Plant species list

Hungry Valley Plant Species List by Family

(updated May 2	023 by Leah Gardner)
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Family	Scientific Name	Common Name
Adoxaceae	Sambucus nigra ssp. caerulea	Blue Elderberry
Agavaceae	Hesperoyucca whipplei	Chaparral Yucca
Agavaceae	Yucca brevifolia	Joshua Tree
Anacardiaceae	Rhus aromatica	Fragrant Sumac
Apiaceae	Anthriscus caucaulis	Bur chervil*
Apiaceae	Apium graveolens	Celery*
Apiaceae	Berula erecta	Cut leaved water parsnip
Apiaceae	Lomatium mohavense	Mojave Desert Parsley
Apiaceae	Lomatium utriculatum	Hog fennel
Apocynaceae	Asclepias erosa	Desert Milkweed
Apocynaceae	Asclepias fascicularis	Narrow Leaf Milkweed
Asteraceae	Agoseris retrorsa	Spear-leaved Agoseris
Asteraceae	Ambrosia dumosa	Burro Weed, White Bursage
Asteraceae	Ambrosia psilostachya	Western Ragweed
Asteraceae	Ancistrocarphus filagineus	Wooly fishhooks
Asteraceae	Artemisia californica	California Sagebrush
Asteraceae	Artemisia palmeri	San Diego Sagewort
Asteraceae	Artemisia tridentata	Great Basin Sagebrush
Asteraceae	Baccharis salicifolia	Mulefat
Asteraceae	Baileya multiradiata	Desert Marigold
Asteraceae	Balsamorhiza deltoidea	Deltoid Balsam Root
Asteraceae	Brickellia californica	California Bricklebush
Asteraceae	Centaurea benedicta	Blessed Thistle**
Asteraceae	Centaurea solstitialis	Yellow Star Thistle**
Asteraceae	Chaenactis fremontii	Fremont Pincushion
Asteraceae	Chaenactis glabriuscula	Yellow Pincushion
Asteraceae	Chaenactis stevioides	Desert pincushion
Asteraceae	Chaenactis xantiana	Fleshy Pincushion
Asteraceae	Cirsium mohavense	Mohave Thistle
Asteraceae	Cirsium occidentale	Cobwebby Thistle, Western Thistle
Asteraceae	Cirsium occidentale var.venustum	Cobwebby Thistle, Venus Thistle
Asteraceae	Corethrogyne filaginifolia	California Sandaster
Asteraceae	Encelia actoni	Acton's Encelia

Asteraceae	Encelia virginensis	Virginia River Encelia
Asteraceae	Ericameria cooperi	Cooper's Goldenbush
Asteraceae	Ericameria linearifolia	Linear-leaved Goldenbush
Asteraceae	Ericameria nauseosa	Rubber Rabbitbrush
Asteraceae	Ericameria parryi	Parry's Rabbitbrush
Asteraceae	Erigeron foliosus	Leafy Fleabane
Asteraceae	Eriophyllum confertiflorum	Golden Yarrow
Asteraceae	Eriophyllum pringlei	Pringle's Wooly Sunflower
Asteraceae	Grindelia sp.	Gumplant
Asteraceae	Gutierrezia sarothrae	Matchweed
Asteraceae	Helianthus annuus	Common Sunflower
Asteraceae	Heterotheca grandiflora	Telegraph Weed
Asteraceae	Lagophylla ramosissima	Common Hareleaf
Asteraceae	Lasthenia californica	Goldfields
Asteraceae	Lasthenia gracilis	Cal. Goldfields
Asteraceae	Layia glandulosa	White Tidy Tips
Asteraceae	Layia platyglossa	Coastal Tidy Tips
Asteraceae	Lepidospartum squamatum	Scalebroom
Asteraceae	Leptosyne californica	California Coreopsis
Asteraceae	Leptosyne douglasii	Douglas' Coreopsis
Asteraceae	Lesptosyne bigelovii	Bigelow's Corepsis
Asteraceae	Lessingia glandulifera	Valley Lessingia
Asteraceae	Malacothrix californica	California Desert Dandelion
Asteraceae	Malacothrix glabrata	Desert Dandelion
Asteraceae	Matricaria discoidea	Pineapple Weed
Asteraceae	Monolopia lanceolata	Common Monolopia
Asteraceae	Monoptilon bellidiforme	Desert Star
Asteraceae	Packera breweri	Brewer's Ragwort
Asteraceae	Pseudognaphalium sp.	Cudweed
Asteraceae	Rafinesquia neomexicana	Desert Chicory
Asteraceae	Senecio flaccidus	Shrubby Ragwort
Asteraceae	Solidago sp.	Goldenrod
Asteraceae	Stephanomeria pauciflora	Brownplume wirelettuce, Desert Straw
Asteraceae	Stephanomeria virgata ssp. pleurocarpa	Wand Wirelettuce
Asteraceae	Stylocline gnaphaloides	Everlasting neststraw
Asteraceae	Tragopogon porrifolius	Purple Salsify*
Asteraceae	Uropappus lindleyi	Silver Puffs
Asteraceae	Wyethia ovata	Southern Mule Ears
Asteraceae	Xylorhiza tortifolia	Mojave Aster

Boraginaceae	Amsinckia menziesii var. intermedia	Common fiddleneck
Boraginaceae	Amsinckia tessellata	Fiddleneck
Boraginaceae	Cryptantha circumscissa	Western Forget-me-not
Boraginaceae	Cryptantha pterocarya	Wingnut Cryptantha
Boraginaceae	Emmenanthe penduliflora	Whispering Bells
Boraginaceae	Eriodictyon crassifolium	Thickleaf Yerba Santa
Boraginaceae	Eriodictyon parryi	Poodle-dog Bush
Boraginaceae	Eucrypta chrysanthemifolia	Spotted Eucrypta
Boraginaceae	Heliotropium curassavicum	Alkali Heliotrope
Boraginaceae	Nama demissum	Purple Mat
Boraginaceae	Nemophila menziesii	Baby Blue Eyes
Boraginaceae	Pectocarya penicillata	Winged Combseed
Boraginaceae	Pectocarya setosa	Moth Combseed
Boraginaceae	Phacelia ciliata	Great Valley Phacelia
Boraginaceae	Phacelia distans	Distant Phacelia
Boraginaceae	Phacelia egena	Rock Phacelia
Boraginaceae	Phacelia fremontii	Fremont's Phacelia
Boraginaceae	Phacelia imbricata	Imbricate Phacelia
Boraginaceae	Phacelia tanacetifolia	Lacy Phacelia
Boraginaceae	Plagiobothrys arizonicus	Arizona Popcorn Flower
Brassicaceae	Boechera pulchra	Beautiful Rockcress
Brassicaceae	Brassica nigra	Black Mustard**
Brassicaceae	Caulanthus coulteri	Coulter's Jewel Flower
Brassicaceae	Erysimum capitatum	Western Wallflower
Brassicaceae	Hirschfeldia incana	Short-podded Mustard**
Brassicaceae	Lepidium fremontii	Desert Pepperweed
Brassicaceae	Lepidium latifolium	Perennial Pepperweed**
Brassicaceae	Lepidium perfoliatum	Shield Cress, Clasping Pepperweed*
Brassicaceae	Nasturtium officinale	Watercress
Brassicaceae	Sisymbrium altissimum	Tumble Mustard*
Brassicaceae	Stanleya pinnata	Prince's Plume
Brassicaceae	Thysanocarpus curvipes	Fringe Pod
Brassicaceae	Tropidocarpum gracile	Dobie Pod, Slender Keep Fruit
Cactaceae	Cylindropuntia californica	California Cholla
Cactaceae	Opuntia basilaris	Beavertail Cactus
Cactaceae	Opuntia phaecantha	Brown-spined Prickly Pear
Campanulaceae	Nemacladus secundiflorus var. robbinsii	Robbins' Nemacladus
Caprifoliaceae	Lonicera subspicata var. denudata	Johnston's Honeysuckle
Chenopodiaceae	Atriplex canescens	Fourwing Saltbush

Chenopodiaceae	Atriplex lentiformis	Big Saltbush
Chenopodiaceae	Bassia hyssopifolia	Five Horn Bassia**
Chenopodiaceae	Chenopodium californicum	California Goosefoot
Chenopodiaceae	Krascheninnikovia lanata	Winter Fat
Chenopodiaceae	Salsola paulsenii	Barbwire Russian Thistle**
Cleomaceae	Peritoma arborea	Bladderpod
Convolvulaceae	Calystegia occidentalis ssp. fulcrata	Sonora Morning Glory
Convolvulaceae	Convolvulus arvensis	Bindweed*
Convolvulaceae	Cuscuta californica	California Dodder
Convulvulaceae	Calystegia collina ssp. venusta	So. Coast Range Morning Glory (4.3)
Crassulaceae	Dudleya lanceolata	Lance-leaved Liveforever
Cucurbitaceae	Cucurbita foetidissima	Buffalo Gourd
Cucurbitaceae	Marah horrida	Sierra Man-root
Cucurbitaceae	Marah macrocarpa	Chilicothe
Cupressaceae	Hesperocyparis nevadensis	Piute Cypress
Cupressaceae	Juniperus californica	California Juniper
Cyperaceae	Carex simulata	Short-beaked Sedge
Ephedraceae	Ephedra viridis	Green Ephedra
Equisetaceae	Equisetum sp.	Horsetail
Ericaceae	Arctostaphylos glauca	Big Berry Manzanita
Ericaceae	Arctostaphylos parryana	Parry Manzanita
Euphorbiaceae	Croton setiger	Turkey-mullein, Dove Weed
Euphorbiaceae	Euphorbia albomarginata	Whitemargin Sandmat
Fabaceae	Acmispon brachycarpus	Short-podded Lotus
Fabaceae	Acmispon glaber	Deerweed
Fabaceae	Acmispon procumbens	Silky Cal. Broom
Fabaceae	Acmispon strigosus	Strigose Lotus
Fabaceae	Astragalus douglasii	Douglas' Milkvetch
Fabaceae	Astragalus gambelianus	Gambel's milkvetch
Fabaceae	Astragalus pachypus	Thickpod Milkvetch
Fabaceae	Astragalus purshii	Pursh's Milkvetch
Fabaceae	Astragalus trichopodus	Santa barbara milkvetch
Fabaceae	Lathyrus vestitus	Pacific Pea
Fabaceae	Lotus corniculatus	Bird's Foot Lotus*
Fabaceae	Lupinus benthamii	Bentham Lupine
Fabaceae	Lupinus bicolor	Miniature Lupine
Fabaceae	Lupinus concinnus	Bajada Lupine
Fabaceae	Lupinus excubitus	Grape Soda Lupine
Fabaceae	Lupinus microcarpus var. densiflorus	Chick lupine

Fabaceae	Melilotus sp.	Sweetclover*
Fabaceae	Trifolium albopurpureum	Rancheria Clover
Fabaceae	Trifolium gracilentum	Pin Point Clover
Fabaceae	Trifolium willdenovii	Tomcat Clover
Fabaceae	Vicia americana	American Vetch
Fagaceae	Quercus chrysolepis	Canyon Live Oak
Fagaceae	Quercus john-tuckeri	Tucker's Oak
Fagaceae	Quercus lobata	Valley Oak
Garryaceae	Garrya flavescens	Ashy Silk Tassel
Geraniaceae	Erodium cicutarium	Filaree**
Grossulariaceae	Ribes divaricatum	Spreading Gooseberry
Grossulariaceae	Ribes malvaceum	Chaparral Currant
Grossulariaceae	Ribes quercetorum	Oak Gooseberry
Juncaceae	Juncus balticus	Baltic Rush
Juncaceae	Juncus xiphioides	Irisleaf Rush
Lamiaceae	Marrubium vulgare	White Horehound**
Lamiaceae	Melissa officinalis	Bee Balm*
Lamiaceae	Monardella breweri	Mustang Mint
Lamiaceae	Salvia apiana	White Sage
Lamiaceae	Salvia carduacea	Thistle Sage
Lamiaceae	Salvia columbariae	Chia Sage
Lamiaceae	Salvia dorrii	Purple Sage, Dorr's Sage
Lamiaceae	Salvia mellifera	Black Sage
Lauraceae	Umbellularia californica	California Bay Laurel
Liliaceae	Bloomeria crocea	Golden Stars
Liliaceae	Calochortus clavatus	Clubhair Mariposa Lily
Liliaceae	Calochortus kennedyi	Desert Mariposa Lily
Liliaceae	Calochortus palmeri	Palmer's Mariposa Lily
Liliaceae	Calochortus striatus	Alkali Mariposa Lily
Liliaceae	Calochortus venustus	Butterfly Mariposa Lily
Loasaceae	Mentzelia albicaulis	Whitestem Blazing Star, Whitestem stickleaf
Loasaceae	Mentzelia veatchiana	Veatch's Blazingstar
Malvaceae	Fremontodendron californicum	Flannel Bush
Malvaceae	Malacothamnus fremontii	Fremont's Bush Mallow
Malvaceae	Malacothamnus orbiculatus	Tehachapi Bush Mallow, Round-leaved b
Malvaceae	Sphaeralcea ambigua	Desert Mallow, Apricot Mallow
Montiaceae	Calandrinia menziesii	Redmaids
Montiaceae	Calyptridium monandrum	Common Pussypaws
Montiaceae	Claytonia exigua	Little Spring Beauty

Montiaceae	Claytonia parviflora	Narrow-leaved Miner's Lettuce
Montiaceae	Claytonia perfoliata	Miner's Lettuce
Nyctaginaceae	Mirabilis laevis	Desert Wishbone Bush
Onagraceae	Camissonia campestris	Mojave Suncup
Onagraceae	Camissonia strigulosa	Strigose Sun Cup
Onagraceae	Camissoniopsis ignota	Jurupa Hills Sun Cup
Onagraceae	Clarkia cylindrica	Speckled Clarkia
Onagraceae	Clarkia purpurea	Winecup Clarkia
Onagraceae	Epilobium canum	California Fuschia
Onagraceae	Eremothera boothii	Booth's Evening Primrose
Onagraceae	Eulobus californicus	California Primrose
Onagraceae	Oenothera californica	California Evening Primrose
Onagraceae	Oenothera deltoides	Dune Primrose
Onagraceae	Oenothera elata	Hooker's Evening Primrose
Onagraceae	Oenothera primiveris	Yellow Desert Evening Primrose
Onagraceae	Tetrapteron palmeri	Palmer's Sun Cup
Orchidaceae	Epipactis gigantea	Stream Orchid
Orobanchaceae	Castilleja chromosa	Desert Indian Paintbrush
Orobanchaceae	Castilleja exserta	Owl's Clover
Orobanchaceae	Castilleja foliolosa	Wooly Indian Paintbrush
Orobanchaceae	Castilleja subinclusa var. jepsonii	Longleaf Paintbrush
Orobanchaceae	Cordylanthus rigidus	Rigid Bird's Beak
Papaveraceae	Argemone munita	Prickly Poppy
Papaveraceae	Eschscholzia californica	California Poppy
Papaveraceae	Eschscholzia minutiflora	Pygmy Gold Poppy
Papaveraceae	Platystemon californicus	Cream Cups
Phrymaceae	Erythranthe guttata	Yellow Monkey Flower
Pinaceae	Pinus monophylla	Single-leaf Pinyon Pine
Plantaginaceae	Collinsia bartsiifolia	White collinsia
Plantaginaceae	Keckiella ternata	Blue-stemmed Keckiella
Plantaginaceae	Linaria dalmatica ssp. dalmatica	Dalmation Toadflax**
Plantaginaceae	Penstemon centranthifolius	Scarlet Bugler
Plantaginaceae	Penstemon grinnellii	Grinnell's Beardtongue
Plantanaceae	Platanus racemosa	California Sycamore
Poaceae	Arundo donax	Giant Reed**
Poaceae	Avena barbata	Slender Wild Oat**
Poaceae	Avena fatua	Wild Oat**
Poaceae	Bromus carinatus	California Brome Grass
Poaceae	Bromus diandrus	Ripgut Brome**

Poaceae	Bromus hordeaceus	Soft Chess**
Poaceae	Bromus madritensis	Foxtail Brome**
Poaceae	Bromus rubens	Red Brome*
Poaceae	Bromus tectorum	Cheat Grass**
Poaceae	Cortaderia jubata	Pampas Grass**
Poaceae	Elymus condensatus	Giant Rye Grass
Poaceae	Elymus elymoides	Big Squirreltail
Poaceae	Elymus trachycaulus	Slender Wheatgrass
Poaceae	Elymus triticoides	Creeping Wild Rye
Poaceae	Festuca myuros	Rat Tail Fescue**
Poaceae	Hordeum brachyantherum	Meadow barley
Poaceae	Hordeum murinum ssp.leporinum	Foxtail Barley*
Poaceae	Melica imperfecta	Small-flowered Melic
Poaceae	Muhlenbergia rigens	Deergrass
Poaceae	Poa annua	Annual Bluegrass*
Poaceae	Poa secunda	Pine Bluegrass
Poaceae	Schismus barbatus	Old Han Schismus**
Poaceae	Secale cereale	Cereal rye*
Poaceae	Stipa cernua	Nodding Needle Grass
Poaceae	Stipa hymenoides	Indian Rice Grass
Poaceae	Stipa pulchra	Purple Needle Grass
Poaceae	Stipa speciosa	Desert Needle Grass
Polemoniacea	Allophyllum glutinosum	Sticky False Gilia
Polemoniaceae	Eriastrum densifolium	Giant Woollystar
Polemoniaceae	Eriastrum diffusum	Miniature Woollystar
Polemoniaceae	Gilia brecciarum	Nevada Gilia
Polemoniaceae	Gilia capitata	Globe Gilia
Polemoniaceae	Gilia latiflora	Broad Flowered Gilia
Polemoniaceae	Gilia transmontana	Transmontane Gilia
Polemoniaceae	Langliosia setosissima	Bristly langloisia
Polemoniaceae	Leptosiphon aureus	Golden Linanthus
Polemoniaceae	Leptosiphon brevicaulus	Mojave Linanthus
Polemoniaceae	Leptosiphon parviflorus	Variable linanthus
Polemoniaceae	Linanthus bigelovii	Bigelow's Linanthus
Polemoniaceae	Linanthus californicus	California Prickly Phlox
Polemoniaceae	Linanthus dichotomous	Evening Snow
Polemoniaceae	Linanthus parryae	Parry's Linanthus
Polemoniaceae	Loeseliastrum schottii	Schott's calico
Polemoniaceae	Microsteris gracilis	Slender Phlox

Polyganaceae	Centrostegia thurberi	Red Triangles
Polygonaceae	Chorizanthe brevicornu	Brittle spineflower
Polygonaceae	Chorizanthe parryi	Parry's Spineflower
Polygonaceae	Chorizanthe staticoides	Turkish Rugging
Polygonaceae	Eriogonum angulosum	Angle-stemmed Buckwheat
Polygonaceae	Eriogonum elongatum	Longstem buckwheat
Polygonaceae	Eriogonum fasciculatum	California Buckwheat
Polygonaceae	Eriogonum fasciculatum var. polifolium	Eastern Mojave Buckwheat
Polygonaceae	Eriogonum inflatum	Desert Trumpet
Polygonaceae	Eriogonum nudum	Nude Buckwheat
Polygonaceae	Eriogonum pusillum	Yellow Turban
Polygonaceae	Eriogonum roseum	Wand Buckwheat
Polygonaceae	Mucronea perfoliata	Desert saucers
Polygonaceae	Pterostegia drymarioides	Fairy Mist
Polygonaceae	Rumex hymenosepalus	Wild Rhubarb, Canaigre
Ranunculaceae	Delphinium gypsophilum	Gypsum-loving Larkspur
Ranunculaceae	Delphinium parryi ssp. purpureum	Mt. Pinos Larkspur
Rhamnaceae	Ceanothus cueatus	Buckbrush
Rhamnaceae	Ceanothus leucodermis	Chaparral whitethorn
Rhamnaceae	Ceanothus pauciflorus	Mojave Ceanothus
Rhamnaceae	Frangula californica	Coffeeberry
Rhamnaceae	Rhamnus ilicifolia	Hollyleaf Redberry
Rosaceae	Adenostoma fasciculatum	Chamise
Rosaceae	Cercocarpus betuloides	Birchleaf Mountain Mahogany
Rosaceae	Potentilla sp.	Cinquefoil
Rosaceae	Prunus ilicifolia	Hollyleaf Cherry
Rosaceae	Purshia stansburryana	Stansbury's Cliffrose
Rosaceae	Purshia tridentata	Bitterbrush
Rosaceae	Rosa californica	California Wild Rose
Rubiaceae	Galium andrewsii	Phlox Leaved Bedstraw
Rubiaceae	Galium sp.	Bedstraw
Salicaceae	Populus fremontii	Fremont Cottonwood
Salicaceae	Salix gooddingii	Black Willow
Salicaceae	Salix laevigata	Red Willow
Salicaceae	Salix lasiandra	Shining Willow
Salicaceae	Salix lasiolepis	Arroyo Willow
Salicaceae	Salix scouleriana	Scouler's willow
Saururaceae	Anemopsis californica	Yerba Mansa
Solanaceae	Datura wrightii	Jimson Weed
Solanaceae	Lycium cooperi	Peach Thorn
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Solanaceae	Solanum xanti	Purple Nightshade
Themidaceae	Diptospermum capitatus	Blue Dicks, Blue Hyacinth
Themidaceae	Muilla maritima	Sea Muilla
Typhaceae	Typha sp.	Cattail
Urticaceae	Urtica dioica ssp. holosericea	Stinging Nettle
Violaceae	Viola pedunculata	Johnny Jump Up
Viscaceae	Phoradendron villosum	Pacific Mistletoe

Appendix D: Reconnaissance protocol and field form

Protocols and blank forms for the "Recon" protocol, a shortened version of the Relevé/Rapid Assessment survey protocol, is included here, since it is not published on the VegCAMP website.

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE PROTOCOL FOR RECON FIELD FORM (March 30, 2017)

This protocol describes the methodology for the reconnaissance technique as recorded in the Recon Field Form dated March 30, 2017. Reconnaissance surveys (recons) are complementary to relevés and rapid assessments, but collect only a small subset of the data gathered using the more detailed methods. Recons are generally used as an aid to digital vegetation mapping, to determine the boundaries of a stand, or to illustrate a particular vegetation signature. For more background on the relevé and rapid assessment sampling methods, see the relevé and rapid assessment protocol at http://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=18599.

Definitions of fields in the form

LOCATIONAL/ENVIRONMENTAL DESCRIPTION

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

Other Surveyors: The full name of each person assisting should be provided for the first field form for the day. On successive forms, initials of each person assisting can be recorded. **Date:** Date of the sampling.

Return?: Check this box if team members should return to this spot at a later date to take a recon or RA/relevé. This can be used if the phenology is not conducive to identification of the major species, or if there is not enough time to take the survey.

Waypoint ID: The Waypoint ID in this format: GPS device name + date (yymmdd) + time (hhmm). For example, for a survey taken on iPad "V" on March 27 at 1:45 in the afternoon, the Waypoint ID will be "V1803271345."

UID: The ID number of a reference point or polygon which this reconnaissance describes. **Location Name:** The name of the property, park, or the location within large holdings (like USFS or BLM properties).

GPS name: The name/number assigned to the GPS unit.

Projected? Yes / No / Base / Digitized: Circle the appropriate option:

Yes - The point is a projected, or offset point. The surveyor used a bearing and distance to project the point to match what they are describing with the survey.

No - The surveyors are in the vegetation they are describing and the point is where the observer was standing for photographs. This location can also be used as a base location for an offset survey.

Base - Base point only. This is where a surveyor was standing when taking an offset survey to describe vegetation not at that point. No plant data or vegetation descriptions are associated with this location. However, cardinal photos taken at this point will be stored in a directory of this name.

Digitized – An offset point was created on the GPS unit without taking bearing and distance readings. This option should only be used when the imagery on the GPS unit is unique and unmistakable.

Bearing (°): The compass bearing from the Base point to the Projected point.

Distance (m): The distance in meters from the Base point to the Projected point, determined by use of a range finder.

Inclination (°): The vertical offset from the Base point to the Projected point.

Base Waypoint ID: For a projected or digitized point, this is the location where the surveyor was standing when the information was collected. Cardinal photographs will be taken at this point and will be stored on the computer under this ID. Photographs of the stand vegetation will be taken from this point and will be stored on the computer under the computer under the Projected point's ID.

Base / Projected UTMs or Decimal degrees: If the point is projected or digitized, circle whether the coordinates of the base point or the offset point have been recorded. These will generally be for the offset point.

GPS error: ft./m./PDOP: The accuracy of the GPS location. Record the error reading and circle the appropriate units.

GPS coordinates: Record either UTM coordinates, easting (**UTME**) and northing (**UTMN**), or decimal degrees, **LAT** (latitude) and **LONG** (longitude). Record this information from a GPS unit. **Stand Size:** Estimate the size of the entire stand in which the sample is taken and circle the appropriate range. As a measure, one acre is similar in size to a football field.

View Radius: Enter the radius, in meters, of the viewable area of the stand from the survey point; the radius should be a minimum of 20 meters.

Camera/Photos: Write the name camera, JPG numbers, and direction of photos. Take four photos in the main cardinal directions (N, E, S, W) clockwise from the north, from the GPS location. This symbol can be used to indicate the cardinal photos: ^{NN}. If additional photos are taken in other directions, please note the JPG numbers and a description of each photo.

HABITAT AND VEGETATION DESCRIPTION

Field alliance name: Name of alliance following the most recent Manual of California Vegetation (Sawyer, Keeler-Wolf, and Evens 2009), using scientific nomenclature, *e.g., Quercus agrifolia*. An alliance is based on the dominant or diagnostic species of the stand, and usually reflects the uppermost and/or dominant height stratum. A dominant species covers the greatest area. A diagnostic species is consistently found in some vegetation types but not others. Please note: The field-assessed alliance name may not exist in the present classification, in which case you can provide a new alliance name in this field.

Comments: Briefly describe the stand age/seral stage, disturbance history, nature and extent of land use, and other site environmental and vegetation factors that will aid in the mapping effort. **% Cover:**

Conifer: The total cover of all the conifer trees taking into consideration the porosity, or the holes, in the vegetation. This is an estimate of the absolute conifer cover, disregarding the overlap¹ of individual trees.

Hardwood: The total cover of all the hardwood trees taking into consideration the porosity, or the holes, in the vegetation. This is an estimate of the absolute hardwood tree cover, disregarding the overlap¹ of individual trees.

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

Total Tree: The total cover of all the trees taking into consideration the porosity, or the holes, in the vegetation. This is an estimate of the absolute tree cover, disregarding the overlap¹ of individual trees.

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

Shrub: The total cover of all the shrubs taking into consideration the porosity, or the holes, in the vegetation. This is an estimate of the absolute shrub cover, disregarding the overlap¹ of individual shrubs.

Herb: The total cover of all the herbs taking into consideration the porosity, or the holes, in the vegetation. This is an estimate of the absolute herbaceous cover, disregarding the overlap¹ of individual herbs.

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

Exotics (L,M,H): The extent to which the stand is impacted by exotic/non-native species. Divide the total exotic cover (e.g. 25% Bromus diandrus + 8% Bromus madritensis + 5% Centaurea melitensis = 38% total exotics) by the Total Veg cover (e.g. 80% total) and multiply by 100 to get the % relative cover of exotics (e.g. 38% total exotics / 80% total cover = 48% relative exotic cover). L = 0.33% *relative* cover of exotics; M = 34-66% relative cover, and H = >66% relative cover.

Species List and Coverage

List the species that are dominant or that are characteristically consistent throughout the stand. This list is used if there is some uncertainty in the field-assessed alliance name, so the most common species should be listed. In the interests of time and efficiency, this species list should not be exhaustive.

Strata:

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

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

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

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

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

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

When one or more tree species are regenerating, the Tree, Seedling and/or Sapling strata may be noted on the same line, e.g.:

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

Species: Use Jepson Manual nomenclature. When uncertain of an identification (which you intend to confirm later) use parentheses to indicate what part of the determination needs to be confirmed. For example, you could write out *Brassica* (*nigra*) if you are sure it is a *Brassica* but you need further clarification on the specific epithet.

% cover: provide the % absolute aerial cover for each species listed. All species percent covers may total over 100% because of overlap.

Collections: If a species collection is made, it should be indicated in the blank column next to "% cover" with a "C" (for collected). If the species is later keyed out, cross out the species name or description and write the keyed species name in pen on the data sheet. Do not erase what was written in the field, because this information can be used if specimens get mixed up later. If the specimen is then thrown out, add a "T" to the "C" in that column (CT = thrown out after confirmation) or cross out the "C". If the specimen is kept but is still not confidently identified, add a

"U" to the "C" (CU = collected and unconfirmed). In this case the unconfirmed species epithet should be put in parentheses [e.g *Hordeum (murinum)*]. If the specimen is kept and is confidently identified, add a "C" to the existing "C" (CC = collected and confirmed). If the specimen is later deposited in an herbarium, add a "D" to the existing "C" (CD = collected and deposited) and note the receiving herbarium.

Reco	rd er:	Other	Surveyo	rs:				I	Date:	Retur	n? 🗆
Way	point ID:	GPS N If Yes	ame , enter:	Bea	P: ring (°):	rojected? Distau	No / Yes nce (m): _	/Base/	Digitized Inclinatio	on (°):	
Loca	tion Name:	If res Base / UTMs:	If Yes or Digitized, enter: Base Waypoint ID:								
		Decima	il degrees	LAT			LON	NG			
Stand	l Size: <1 1-5 >5	Camer	a:	Pho	/tos:	5. 36 G. 1		8	na stabil antis	View Radi	us
Expo	sure, Actual °:	NE N	W SE	SW	Flat Variable	Steepnes	s, Actual °:		0° 1-5°	> 5-25°	> 25
Field	Alliance name:										
Com	nents:		Total	Tras	Ragan Trea	Sheeb	Harb	- 1	Total Var	Fratics (1.)	MH)
Strata	Species 11a	%	cover	Strata	Species	ombo	% cover	Stratas	otal veg	Exotics (E.,	% cover

RECON FIELD FORM (March 6, 2019, with slope/a spect)