Rare Plant and Vegetation Survey of a Section of the Methow Wildlife Area



Pacífic Biodiversity Institute



Rare Plant and Vegetation Survey of a Section of The Methow Wildlife Area

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Introduction

Under contract with the Washington State Parks and Recreation Commission, a section of the Methow Wildlife Area (Figure 1), hereafter called the Project Area, located in Okanogan County, was surveyed for rare plant occurrences and mapped according to vegetation communities by Pacific Biodiversity Institute (PBI). Vegetation data was collected for all the mapped vegetation types. This report summarizes the activities and findings of the contracted work.

Under a separate contract, we also conducted similar surveys of Pearrygin Lake State Park and lands to be added to the park as part of its expansion plans. This work is reported in a separate report (Visalli et al 2006).



Figure 1: Project Area Boundaries

Vegetation Communities

Methods

Plant associations within the Project Area of the Methow Wildlife Area were delineated and classified using a combination of field survey and remote sensing techniques. We relied on plant association keys and descriptions from several recognized sources to make vegetation community assignments, including the Field Guide for Forested Plant Associations of the Wenatchee National Forest (Lillybridge et al, 1995), Key to Sagebrush Alliances of the Western United States (Crawford, 1999), Classification and Management of Aquatic, Riparian and Wetland Sites on the National Forests of Eastern Washington (Kovalchik and Clausnitzer, 2004), Classification of Native Vegetation of Oregon (Kagan et al, 2000), A Preliminary Vegetation Classification of the Western United States (Bourgeron and Engelking, 1994) and Washington Natural Heritage Program unpublished data files (WANHP). In some cases, the community descriptions in existing manuals were not adequate in describing distinctive vegetation associations in the project area. In these cases, new land cover type and plant association names and descriptions were created by PBI.

Remote sensing techniques consisted of manually delineating plant associations or mosaics of plant associations in a digital environment. We reviewed orthorectified aerial photography from the 1990s and recent ASTER satellite images for discernable vegetation or landform patterns. We also used high resolution true color ortho-rectified aerial photography obtained from Washington Department of Natural Resources through Washington Department of Fish and Wildlife. Topographic maps, and digital elevation models (DEMs) were also employed to assist the process of vegetation community delineation. Vegetation polygons were created by hand in a GIS by ocular assessment.

Field surveys consisted of visiting sites located within the vegetation polygons created during the remote sensing process. At representative sites within a polygon, vegetation data and site descriptions were recorded in a fashion consistent with the "plant community polygon" format provided by the Washington State Parks and Recreation Commission. Further refinements and editing of the drafted vegetation polygon layers were done by hand on hardcopy maps in the field, and later edited digitally in a GIS.

Results

We surveyed and mapped a total of 158 vegetation community polygons, comprised of 33 primary vegetation community types, as well as 5 disturbance categories, within the designated survey area. Vegetation community polygons are either stand-alone plant associations or mosaics of multiple plant associations. Table 1 lists the plant associations and/or cover types found in the Project Area.

Figure 2 shows the location of the vegetation community polygons mapped in the survey area, overlain on an aerial photograph of the area. Figure 3 indicates the primary plant association (PA1 in the database) of each polygon. The GIS database created for this project can be queried and displayed to show the more complex mixtures of vegetation communities that occur in many polygons. Figures 4 and 5 are larger images of the vegetation polygons in the northern and southern halves of the survey area, at a scale large enough to illustrate major vegetation types and boundaries. Appendix E lists the attributes for each polygon in the project area.

 Table 1. Vegetation Community Types Encountered in the Project Area

Association Name	Abbreviation	English Name	Reference	Primary PAs	Status
Alnus incana - Cornus stolonifera - Symporicarpos albus	ALIN2-COST4-SYAL	Mountain alder / Red-osier dogwood / Common snowberry	Kovalchik (2004)	2	na
Artemisia tridentata / Pseudoroegneria spicata	ARTR2/PSSP6	Big sagebrush / Bluebunch wheatgrass	Crawford (1999)	4	G4
Carex utriculata	CAUT	Bladder sedge	Kovalchik (2004)	0	G5
Cornus stolonifera / Symphoricarpos albus	COST4/SYAL	Red-osier dogwood / Common snowberry	Kovalchik (2004)	0	na
Festuca idahoensis / Eriogonum heracleoides	FEID/ERHE2	Idaho fescue / Tall buckwheat	Bourgeron (1994)	0	G2
Lymus cinereus grassland	LECI	Great Basin wildrye grassland	WANHP	1	G2G3Q
Pinus ponderosa - Pseudotsuega menziesii / Purshia tridentata	PIPO-PSME/PUTR2	Ponderosa pine - Douglas- fir / Bitterbrush	Bourgeron (1994)	1	G3
Pinus ponderosa - Pseudotsuga menziesii / Calamagrostis rubescens	PIPO-PSME/CARU	Ponderosa pine - Douglas- fir / Bluebunch wheatgrass	WNHP	1	G2
Pinus ponderosa - Pseudotsuga menziesii / Pseudoroegneria spicata	PIPO-PSME/PSSP6	Ponderosa pine - Douglas- fir / Pinegrass	Bourgeron (1994)	1	G3
Pinus ponderosa / Calamagrostis rubescens	PIPO/CARU	Ponderosa pine / Pinegrass	Kagan (2000)	7	G2
Pinus ponderosa / Calamagrostis rubescens - Pseudoroegneria spicata	PIPO/CARU-PSSP6	Ponderosa pine / Pinegrass-Bluebunch wheatgrass	Lillybridge (1995)	7	na
Pinus ponderosa / Pseudoroegneria spicata	PIPO/PSSP6	Ponderosa pine / Bluebunch wheatgrass	Lillybridge (1995)	4	G4
Pinus ponderosa / Purshia tridentada / Pseudoroegneria spicata	PIPO/PUTR2/PSSP6	Ponderosa pine / Bitterbrush / Bluebunch wheatgrass	Lillybridge (1995)	23	G4
Pinus ponderosa / Purshia tridentata / Festuca idahoensis	PIPO/PUTR2/FEID	Ponderosa pine / Bitterbrush / Idaho fescue	Kagan (2000)	4	G3
Pinus ponderosa / Symphoricarpos albus	PIPO/SYAL	Ponderosa pine / Common snowberry	Kagan (2000)	9	G4
Populus tremuloides / Cornus stolonifera	POTR5/COST4	Ponderosa pine / Red- osier dogwood	Kovalchik (2004)	4	G4
Populus tremuloides / Symphoricarpos albus	POTR5/SYAL	Trembling aspen / Common snowberry	Kovalchik (2004)	15	G3
Populus trichocarpa / Alnus incana / Cornus stolonifera	POTR15/ALIN2- COST4	Black cottonwood / Mountain alder / Red-oiser dogwood	Kovalchik (2004)	1	G3
Pseudotsuga menziesii - Pinus ponderosa / Calamagrostis rubescens	PSME-PIPO/CARU	Douglas-fir- Ponderosa pine / Pinegrass	WANHP	1	G2
Pseudotsuga menziesii / Calamagrostis rubescens - Pseudoroegneria spicata	PSME/CARU-PSSP6	Douglas-fir / Pinegrass - Bluebunch wheatgrass	Lillybridge (1995)	1	na
Pseudotsuga menziesii / Spiraea betulifolia / Calamagrostis rubescens	PSME/SPBE2/CARU	Douglas-fir / Shiny-leaf Spiraea / Pinegrass	Lillybridge (1995)	0	na
Pseudotsuga menziesii / Symphoricarpos albus	PSME/SYAL	Douglas-fir / Common snowberry	Lillybridge (1995)	3	G5

Pseudotsuga menziesii / Symphoricarpos albus / Calamagrostis rubescens	PSME/SYAL/CARU	Douglas-fir / Common snowberry / Pinegrass	Lillybridge (1995)	2	na
Pseudotsuga menziesii / Symphoricarpos albus / Pseudoroegneria spicata	PSME/SYAL/PSSP6	Douglas-fir / Common snowberry / Bluebunch wheatgrass	Lillybridge (1995)	1	na
Purshia tridentata / Festuca idahoensis	PUTR2/FEID	Bitterbrush / Idaho fescue	Crawford (1999)	4	G4
Purshia tridentata / Pseudoroegneria spicata	PUTR2/PSSP6	Bitterbrush / Bluebunch wheatgrass	Crawford (1999)	34	G3
Purshia tridentata / Stipa occidentalis	PUTR2/STOC2	Bitterbrush / Western needlegrass	Crawford (1999)	1	G2
<i>Rosa nutkana</i> thicket	RONU thicket	Nutka Rose thicket	PBI	1	na
Disturbed Types:					
Developed				2	
Disturbed meadow				3	
Disturbed wetland				10	
Former agricultural field				13	
Agricultural field				2	

The conservation status of a species or community is designated by a number from 1 to 5, preceded by a

letter reflecting the appropriate geographic scale of the assessment. In the chart above, G = Global, S = State. The numbers indicate the following: 1 = critically imperiled

- 2 = imperiled

3 = vulnerable to extirpation or extinction

4 = apparently secure

5 = demonstrably widespread, abundant, and secure.

1B 2B 11 20 31A 27A 37. 27B 36A 27 C 36B 107 42 27W 45 53A 106 D 48 52A 52B 53B 55 95 106 B 54 99 106 C 84 85 70 7 116F 73 61 116B 300 69B 116A 90 75B 116 C 76B 76 116D 93 92 77B 116E 124 130 - AND 114B 131 131B 140B 0.5 __Mie: 0. 125 140

Figure 2: Vegetation community polygons in the survey area



Figure 3: Primary plant associations in plant community polygons



Figure 4: Vegetation polygons in northern Portion of survey area



Figure 5: Vegetation polygons in southern portion of survey area

Examples of Vegetation Community Types

Alnus incana-Cornus stolonifera-Symphoricarpos albus (ALIN2-COST4-SYAL)



The two polygons in the project area in this riparian plant association are along Bear Creek and Pearrygin Creek. Of the three species comprising the association, mountain alder and red-osier dogwood are considered *facultative wetland plants*—they typically occur in wetlands, but occasionally are found in non-wetlands. Species completely dependent on wetland conditions are called *obligate wetland plants*. Snowberry is classified as a *facultative plant*, one equally likely to occur in wetlands or in non-wetlands. The fact that all three species are adapted to moderate wetland conditions is a reflection of their growth along streams that vary greatly in seasonal flow rates, from flooding conditions in spring to mere seepage or even drying conditions in fall and winter. Both creeks originate on the western slopes of 6600' Pearrygin Peak, which is in the rainshadow of the Cascade crest and receives far less annual precipitation that the peaks to the west. Non-native species are rare in this plant association.

Related polygon: POTR15/ALIN2/COST4 Artemisia tridentata / Pseudoroegneria spicata (ARTR2/PSSP6)



While bluebunch wheatgrass is pervasive in the shrub-steppe throughout the Methow watershed, big sagebrush appears more erratically, with bitterbrush being dominant in the shrub-steppe. Big sagebrush typically grows in better soils than bitterbrush. The latter species is capable of acquiring atmospheric nitrogen through association with nitrogen-fixing bacteria in the soil, an attribute that allows it to succeed on marginal lands. Sagebrush and bitterbrush are both killed by fire, but seeds germinate readily afterwards. In the project area this plant association had a non-native species component of 1-5% ground cover, with the dominant species being cheatgrass (*Bromus tectorum*) and Dalmation toadflax (*Linaria dalmatica*).

Leymus cinereus – grassland LECI4



On the semi-arid east slope of the Cascades, Great Basin wildrye typically grows in areas that are subirrigated by moisture moving downhill through the soil. This water movement results in 1) an increase in available moisture at the site beyond that which falls as precipitation, and 2) saline/alkaline soils caused by soil salts that are transported with the soil moisture and then left behind when the water evaporates. Sites with vigorous stands of Great Basin wildrye typically have saturated soils in the spring and dry thoroughly by mid-summer. Plants commonly associated with this species are alkali saltgrass (*Distichlis stricta*), and more commonly in the Methow Watershed and at Pearrygin Lake State Park, Douglas sedge (*Carex douglasii*). Great Basin wildrye readily resprouts after fire and inhibits growth of herbaceous perennials, and is there present in both early- and late-seral ecological stages. The two primary nonnative species present in this polygon are Canada thistle (*Cirsium arvense*) and whitetop (*Cardaria draba*), which together comprise about 5% cover.

Pinus ponderosa / Calamagrosits rubescens (PIPO/CARU)



As befits plant species in areas of high fire periodicity such as the lower east slopes of the Cascades, both ponderosa pine and pinegrass are fire-adapted species. Ponderosa pine requires bright sunlight and mineral soil in which to germinate, and so will give way to more shade-adapted species as the forest canopy increases. Post-fire conditions are optimum for ponderosa seed germination. Once established, ponderosa pine quickly sheds it lower branches, thus preventing ground fires from speading into the canopy, while a thick and flaky bark protect the cambium layer. Pinegrass grows luxuriantly in partial shade, but will only flower and produce seeds in bright sunlight. In addition it readily responses from underground rhizomes after a fire. In the project area, pinegrass appears in areas that receive less than full solar insolation, such as on north slopes and on shaded benches. Because pinegrass forms a thick mat over the ground and Ponderosa pine shades the understory, non-native species are infrequent in this association, generally present as less than 1% of total cover. The most common non-native species here is bulbous bluegrass (*Poa bulbosa*).

Related plant associations: PIPO-PSME/CARU PIPO/CARU-PSSP6

Pinus ponderosa / Pseudoroegneria spicata (PIPO/PSSP6)



In contrast to pinegrass, bluebunch wheatgrass grows in areas that receive full summer sun. Thus this plant is adapted not only relatively low precipitation, but to high evaporative rates as well. One strategy that it employs is to complete its annual growth and reproductive cycles in the spring, when ground moisture is available from snow melt. Bluebunch wheatgrass is a perennial, the rootstock living for many years below ground. The species readily resprouts after ground fires kill the above-ground portion of the plant. It is a tribute to the adaptations of ponderosa pine that this large tree can grow and even thrive in the same low-moisture environment as bluebunch wheatgrass. Confers in general and ponderosa in particular is well adapted to relatively dry environments, with the long, cylindrical needles presenting a minimum of surface area relative to leaf mass to the desiccating environment. Like most conifers, ponderosa retains its needles for several years, and thus can optimize photosynthesis in the spring and fall, when soil moisture is more available than in summer. Bunchgrass is vulnerable to heavy grazing pressure. Non-native species in this association varied from 1-20% of ground cover, bulbous bluegrass (*Poa bulbosa*) and cheatgrass (*Bromus tectorum*) being the most abundant species.

Related plant associations: PIPO-PSME/PSSP6

Pinus ponderosa / Purshia tridentada / Pseudoroegneria spicata (PIPO/PUTR2/PSSP6)



With 23 polygons in this plant association, it is one of the most common vegetation communities in the Project Area. It shares many of the characteristics of the previously described ponderosa pine/bluebunch wheatgrass association, with the addition of bitterbrush as a frequent member of the community. While the previously described association is common on harsh southern slopes, this one is more likely to be found in areas that receive some relief from the full force of the summer sun, and that retains moisture longer in the spring. This is a mid-seral association, as any increase in pines will be at the expense of the bitterbrush and bunchgrass, which require full sun for vigorous growth. There are sites in the project area where dead and dying bitterbrush can be seen under a ponderosa canopy that increased enough to shade out the understory competition. Non-native species presence is generally low at 0-5% of ground cover, with the usual protagonists, bluegrass (*Poa bulbosa*) and cheatgrass (*Bromus tectorum*) being the most abundant species.

Related associations: PIPO-PSME/PUTR2 PIPO/PUTR2/FEID

Pinus ponderosa / Symphoricarpos albus (PIPO/SYAL)



This is a fire-evolved plant association, which in natural cycles would frequently experience ground fires. Ponderosa has evolved fire resistance by developing a thick and flaking bark, and by dropping lower branches as the tree grows. Common snowberry is usually a fire "survivor" and has high resistance to fire. It is a rhizomatous species with rhizomes buried 2 to 5 inches deep in mineral soil. After fire has killed the top of the plant, new growth sprouts from these rhizomes. Non-native species abundance in this association is low, comprising less than 1% of the cover.

Populus tremuloides / Symphoricarpos albus (POTR5/SYAL)



With 15 polygons in the project area, this trembling aspen/common snowberry association re-occurs frequently, although most of polygons are small compared those in the shrub-steppe. Both species in this association require more moisture than is available from annual precipitation, and so are found in sites where subsoil moisture collects in the spring. Aspen can be an early seral species, as it responds to disturbance, especially fire, by resprouting from underground roots. In wetland depressions and along vernal stream channels it is often the climax tree species, as the soil is too wet for potential competitor tree species. Aspen canopy cover in these polygons averages 50%. Non-native species average 1-5% cover in this association, comprised primarily of Canada thistle (*Cirsium arvense*) and whitetop (*Cardaria draba*) near the edges of the stand.

Related polygons: POTR5/COST4: 4 polygons

Pseudotsuga menziesii / Symphoricarpos albus (PSME/SYAL)



North-facing slopes in the project area receive the same quantity of annual precipitation as the south slopes. But studies have shown that the amount of solar radiation received on the north slopes in winter is so much less than on south slopes that north slope soils have 50% more water stored than their southern counterparts by early spring. The greater consumption of available heat for evaporation from north-facing sites results in lower air and soil temperatures than on south-facing ones. These factors in combination with 100 years of fire suppression have led to the growth of dense stands of Douglas-fir dominated forests on north slopes in the project area, while just a few yards away on the opposite aspect there is shrub-steppe or scattered ponderosa pine. Non-native species abundance is low in this association.

Related polygons: PSME/CARU/PSSP6 PSME/SPBE2/CARU PSME/SYAL/CARU2 PSME/SYAL/PSSP6

Purshia tridentata / Pseudoroegneria spicata (PUTR2/PSSP6)



This is the most abundant plant association in the project area. It is a fire-evolved community, with a firereturn interval of 8-12 years. Bluebunch wheatgrass is highly resisted to ground fires, but bitterbrush is often killed by fire; it is fire dependent, but not fire resistant. Bitterbrush regenerates mostly from seed after fire often from caches of seeds made by rodents. Fire exclusion may reduce litter-free sites that are needed for seedling establishment. Shrub-steppe in good ecological condition has a woody shrub component of 10% or less, as periodic fire favors herbaceous plants. Most of the polygons in the project area have a shrub component of over 20%. This relative abundance of woody material is probably an artifact of 100 years of fire suppression. The lower picture above illustrates an area where the bitterbrush has grown to a height of five feet, with coarse, woody stems, and comprises 40% of the ground cover, a further indication of fire suppression. Non-native species abundance is variable over this large expanse of land, from as low as 1% of cover to as high as 25%. The three most abundant non-native species are cheatgrass (*Bromus tectorum*), bulbous bluegrass (*Poa bulbosa*), and Dalmation toadflax (*Linaria dalmatica*).

Related polygons: PUTR/FEID PUTR/STOC

Rosa nutkana thicket (RONU)



This plant community has not been described before. Pacific Biodiversity Institute decided that it was a unique community that warranted a name and description. Nootka rose is a native, deciduous, perennial shrub 3 to 6 feet tall. In appropriate habitat conditions it is an increaser on disturbed sites, which probably explains the presence of the thicket pictured above in a shallow swale in a former agricultural field. Nootka rose is provides valuable nesting and escape cover for birds, and is a favored browse for mule deer, white-tailed deer, bears, and various rodents. It quickly resprouts after low-intensity fires but the shallow underground crowns are easily killed by high-intensity fire.

Former agricultural field



Much of the project area was ranch land in the past, with the hillsides grazed by cattle, and the level and low-relief areas plowed and farmed for alfalfa and other crops. Many of the dryland (non-irrigated) fields have been abandoned for years, and are in transition back to native vegetation. An abundant native species under these conditions, is western needlegrass (*Stipa occidentalis*), which is considered a native "increaser" in disturbance conditions. The ratio of non-native species is high in these communities, typically between 20-50% cover. The primary non-native species are smooth brome (*Bromus inermis*) and cheatgrass (*Bromus tectorum*), although many others are present as well.

Disturbed meadow



The term 'meadow' is used here to describe areas in the project that are on level or low-relief ground, and are sub-irrigated in the spring by water moving through the soil. Because of the additional moisture beyond annual precipitation, the native plant communities at these sites were markedly different from the surrounding shrub-steppe. These areas also stay green longer into the summer than the shrub-steppe, and are therefore much more heavily grazed by cattle, with a resultant loss of a native species. In the three polygons in this classification, 10-20% of the vegetation present is non-native, with cheatgrass (*Bromus tectorum*), Kentucky bluegrass (*Poa pratensis*), and Canada thistle (*Cirsium arvense*) being the most abundant non-native species.

Disturbed wetland



As with the meadowlands, the wetlands in this semi-arid region contain a community of plants that is completely different from the surrounding shrub-steppe. Because of the moisture that accumulates at these sites, they were favored by grazing cattle in the summer, as the surrounding uplands dried out. Due to heavy grazing, most upland wetlands in the project area are dominated by non-native species, with some sites containing over 90% non-natives. Among these, the most abundant are canary reedgrass (*Phalaris arundinacea*), Canada thistle (*Cirsium arvense*), and whitetop (*Cardaria draba*). In the image above, whitetop dominates the middle-ground, while the foreground is so trampled by livestock that vegetation has been eradicated.

Rare Plant Surveys

Methods

We visited the project area of the Methow Wildlife Area multiple times during the 2006 field season to conduct rare plant surveys. We used the Washington Department of Natural Resources Natural Heritage Program's (DNR NHP) rare plant list to determine the conservation status of vascular plants encountered in the field. When a plant from the DNR NHP list was located, we used the standard DNR NHP rare plant sighting form to complete field descriptions for the observation. These forms are attached to Appendix B of this report.

Field surveys were conducted on : May 25, May 28, May 29, June 4, June 5, June 6, June 7, June 9, June 12, June 21, June 22, June 23, June 25, June 26, June 27, and October 12. During the field surveys, we were equipped with reference literature, rare plant lists for the area, maps showing rare plant locations from previous surveys, and a portable plant identification lab. We looked for rare plants in habitats previously identified as being likely occurrence sites. So as not to miss a rare plant, all vascular plant species encountered during the inventory were identified on site, at base camp in the portable laboratory, or back at our office.

Survey routes were determined based on the desire to efficiently cover a large proportion of the park's area throughout the field season. We surveyed habitats of the park where we felt rare plants were more likely to occur more intensively. Survey routes for the rare plant inventory and rare plant locations were recorded either by hand, on a hardcopy topographic map, or as GPS waypoints and trackpoints, all of which were later compiled into a single GIS data layer, depicted in Appendix A.

Results

Rare Plants

No plant species listed as threatened, endangered or sensitive were encountered in the project area. One species on the NHP "watch" list was encountered, purple milkvetch (*Astragalus agrestis*). Watch status is assigned to each vascular plant taxon that is more abundant and/or less threatened in Washington than previously assumed. Although the Washington Natural Heritage Program does not focus on these taxa, some information about them is still gathered. Beyond the project area, considering the MWA as a whole, one list plant species is known.



Astragalus agrestis, purple milkvetch Sensitive and watch vascular sensitive plant species currently known to occur on the entire MWA: <u>Scientific Name</u> Astragalus agrestis Cryptantha spiculifera <u>Common Name</u> Purple milkvetch Snake River cryptantha Global/State Rank G5/Watch G4/S2 Location NAD 27 713289E 5372028N NAD 27 713758E 5364076N

A rating of G4 indicates that the species is "apparently secure" on a global scale; G5 indicates that a species is "widespread and secure." S2 denotes a plant that is "critically imperiled" in a given state.



Cryptantha spiculifera, Snake River cryptantha



Vascular Plant List for the Project Area, Methow Wildlife Area

A total of 302 vascular plant species were identified during the 2006 surveys in the Methow Wildlife Area. Of these, 60 of the plant species are non-native, accounting for 20% of the total.

Key to Vascular Plant Species List

Column 2: Abun=Abundance of each species: 1= abundant in multiple plant communities in the park, 2= abundant in a specific plant community, 3= common in a specific community, 4= uncommon (6-20 populations), 5= rare (1-5 populations).

Column 3: "Code": Four-letter plant code as shown on the USDA PLANTS database.

Column 5: "Synonym": The species list primarily uses Hitchcock and Cronquist's *Flora of the Pacific Northwest* as the taxonomic authority, as this is still the standard reference for our area. Typically updated nomenclature when it exists is shown in column 5. When updated nomenclature is an integral part of a community plant association, then the updated version appears in column 4, as the scientific name.

Column 7: "Alien": species that are not native to the Wildlife Area are indicated with an "a" in this column.

The list of species identified during this project is below. Note: An asterisk (*) in the species code indicates that the species was not identified to variety and no official USDA 4-letter code exists for the species.

Alien # Abun Code Scientific Name Common Name/Accepted Synonym Family 1 4 ACGL Acer glabrum Torr Rocky Mountain maple Aceraceae 2 ACMI2 Achillea millefolium L 3 yarrow Asteraceae 3 4 ACRU2 Actaea rubra (Ait.) Willd. red baneberry Ranunculaceae 4 3 AGHE2 Agoseris heterophylla (Nutt.) Greene annual agoseris Asteraceae 5 AGCR 3 Agropyron cristatum (L.) Gaertn. crested wheatgrass Poaceae а 6 3 AGRE2 Agropyron repens (L.) Beauv. >>Elymus repens Poaceae а 7 AGSP >>Pseudoroegneria spicata ssp. spicata 3 Agropyron spicatum Pursh Poaceae 8 ALAC4 4 Allium acuminatum Hook tapertip onion Liliaceae 9 ALIN2 Betulaceae 4 Alnus incana (L.) Moench gray alder 10 3 AMAL2 Amelanchier alnifolia (Nutt.) Nutt. Saskatoon serviceberry Rosaceae 11 AMME Amsinckia menziesii (Lehm.) A. Nels Menzies' fiddleneck Boraginaceae 3 12 4 AMRE2 Amsinckia retrorsa Suksdorf >>Amsinckia menziesii var. menziesii Boraginaceae 13 4 ANAR3 Angelica arguta Nutt. Lyall's angelica Apiaceae 14 ANAN2 Antennaria anaphaloides Rydb. Asteraceae 5 pearly pussytoes 15 ANDI2 Antennaria dimorpha (Nutt.) Torr. & Gray 4 low pussytoes Asteraceae 16 3 ANMI3 Antennaria microphylla Rydb. littleleaf pussytoes Asteraceae 17 4 ANRA Antennaria racemosa Hook raceme pussytoes Asteraceae 18 3 APAN2 Apocynum androsaemifolium L spreading dogbane Apocynaceae Arabis holboellii Hornem. 19 ARHO2 4 Holboell's rockcress Brassicaceae 20 4 ARSP Arabis sparsiflora Nutt. sicklepod rockcress Brassicaceae 21 4 ARCA3 Arceuthobium campylopodum western dwarf mistletoe Loranthaceae 22 4 ARDO Arceuthobium douglasii Douglas dwarf mistletoe Loranthaceae 23 3 ARMI2 Arctium minus Bernh. lesser burdock Asteraceae а 24 ARNE 4 Arctostaphylos nevadensis Gray pinemat manzanita Ericaceae 25 5 ARNU5 Arenaria nuttallii Pax >>Minuartia nuttallii ssp. nuttallii Caryophyllaceae 26 4 ARCO9 Arnica cordifolia Hook. heartleaf arnica Asteraceae 27 4 ARFU3 Arnica fulgens Pursh foothill arnica Asteraceae ARPA13 Arnica parryi Gray 28 4 Parry's arnica Asteraceae 29 ARDR4 Artemisia dracunculus L 4 tarragon Asteraceae а 30 3 ARTR2 Artemisia tridentata Nutt big sagebrush Asteraceae 31 4 ARTR4 Artemisia tripartita Rydb. threetip sagebrush Asteraceae 32 4 ASSP Asclepias speciosa Torr. showy milkweed Asclepiadaceae 33 3 ASPR Asperugo procumbens L German-madwort Boraginaceae а 34 3 ASCA6 Aster campestris Nutt. >>Symphyotrichum campestre Asteraceae 35 3 ASCO3 Aster conspicuus Lindl. >>Eurybia conspicua Asteraceae 36 4 ASFO Aster foliaceus Lindl. ex DC >>Symphyotrichum foliaceum Asteraceae 37 ASAG2 4 Astragalus agrestis Dougl. ex G. Don purple milkvetch Fabaceae 38 ASMI9 Astragalus miser Dougl. timber milkvetch Fabaceae 3 woollypod milkvetch 39 ASPU9 Astragalus purshii Dougl. ex Hook. 4 Fabaceae 40 common ladyfern 4 ATFI Athyrium filix-femina (L.) Roth Dryopteridaceae 41 3 BASA3 Balsamorhiza sagittata (Pursh) Nutt. arrowleaf balsamroot Asteraceae MEAQ Mahonia aquifolium Pursh 42 3 Tall Oregongrape Berberidaceae 43 4 BEER Berula erecta (Huds.) Coville cutleaf waterparsnip Apiaceae 44 BEOC2 Betula occidentalis Hook Betulaceae 3 water birch 45 3 BRCO4 Bromus commutatus Schrad >>Bromus racemosus Poaceae а

Vascular Plant Species of the Project Area, MWA:

46	3	BRIN2	Bromus inermis Leyss.	smooth brome	Poaceae	а
47	3	BRTE	Bromus tectorum L.	cheatgrass	Poaceae	а
48	3	CARU	Calamagrostis rubescens Buckl.	pinegrass	Poaceae	
49	3	CALY	Calochortus Iyallii Baker	Lyall's mariposa lily	Liliaceae	
50	4	CAMA5	Calochortus macrocarpus Dougl.	sagebrush mariposa lily	Liliaceae	
51	4	CAMI2	Camelina microcarpa Andrz. ex DC.	littlepod false flax	Brassicaceae	а
52	2	CADR	Cardaria draba (L.) Desv.	whitetop	Brassicaceae	а
53	4	CADI6	Carex disperma Dewey	softleaf sedge	Cyperaceae	
54	3	CADO2	Carex douglasii Boott	Douglas' sedge	Cyperaceae	
55	4	CAHO5	Carex hoodii Boott	Hood's sedge	Cyperaceae	
56	3	CAPA*	Carex pachystachya Cham. Ex Steud.	thick-headed sedge	Cyperaceae	
57	4	CAPR5	Carex praegracilis W. Boott	clustered field sedge	Cyperaceae	
58	3	CARO5	Carex rossii Boott	Ross' sedge	Cyperaceae	
59	3	CAUT	Carex utriculata Boott	Northwest Territory sedge	Cyperaceae	
60	3	CAMI12	Castilleja miniata Dougl. ex Hook.	giant red Indian paintbrush	Scrophulariaceae	
61	4	CEVE	Ceanothus velutinus	snowbrush	Rhamnaceae	
62	3	CEDI3	Centaurea diffusa Lam.	diffuse knapweed	Asteraceae	а
63	3	CERE6	Centaurea repens	Russian knapweed	Asteraceae	а
64	4	CENU2	Cerastium nutans Raf.	nodding chickweed	Caryophyllaceae	
65	5	CHDO	Chaenactis douglasii (Hook.) Hook. & Arn.	Douglas' dustymaiden	Asteraceae	
66	3	CHAL7	Chenopodium album L.	lambsquarters	Chenopodiaceae	а
67	5	CHBO2	Chenopodium botrys L.	Jerusalem oak goosefoot	Chenopodiaceae	а
68	3	CHFR3	Chenopodium fremontii S. Wats.	Fremont's goosefoot	Chenopodiaceae	
69	4	CHTE2	Chorispora tenella (Pallas) DC.	crossflower	Brassicaceae	а
70	5	CIDO	Cicuta douglasii (DC.) Coult. & Rose	western water hemlock	Apiaceae	
71	4	CIAL	Circaea alpina L.	small enchanter's nightshade	Onagraceae	
72	3	CIAR4	Cirsium arvense (L.) Scop.	Canada thistle	Asteraceae	а
73	4	CIVU	Cirsium vulgare	bull thistle	Asteraceae	а
74	3	CLLA2	Claytonia lanceolata Pall. ex Pursh	lanceleaf springbeauty	Portulacaceae	
75	3	CLLI2	Clematis ligusticifolia Nutt.	western white clematis	Ranunculaceae	
76	3	COPA3	Collinsia parviflora Lindl.	maiden blue eyed Mary	Scrophulariaceae	
77	4	COGR4	Collomia grandiflora Dougl. ex Lindl.	grand collomia	Polemoniaceae	
78	3	COLI2	Collomia linearis Nutt.	tiny trumpet	Polemoniaceae	
79	3	COTE	Collomia tenella Gray	diffuse collomia	Polemoniaceae	
80	3	COUM	Comandra umbellata (L.) Nutt.	bastard toadflax	Santalaceae	
81	4	COAR4	Convolvulus arvensis L.	field bindweed	Convolvulaceae	а
82	4	COCA5	Conyza canadensis (L.) Cronq.	Canadian horseweed	Asteraceae	а
83	5	COST19	Corallorhiza striata Lindl.	hooded coralroot	Orchidaceae	
84	3	COST4	Cornus stolonifera Michx.	>>Cornus sericea ssp. sericea	Cornaceae	
85	3	CRCO39	Crataegus columbiana T.J. Howell	>>Crataegus chrysocarpa var. piperi	Rosaceae	
86	4	CRAT	Crepis atribarba Heller	slender hawksbeard	Asteraceae	
87	3	CRIN4	Crepis intermedia Gray	limestone hawksbeard	Asteraceae	
88	4	CROC	Crepis occidentalis Nutt.	largeflower hawksbeard	Asteraceae	
89	3	CRTO4	Cryptantha torreyana (Gray) Greene	Torrey's cryptantha	Boraginaceae	
90	3	CUAP2	Cuscuta approximata Bab.	alfalfa dodder	Cuscutaceae	а
91	5	CYMO2	Cypripedium montanum Dougl. ex Lindl.	mountain lady's slipper	Orchidaceae	
92	4	CYFR2	Cystopteris fragilis (L.) Bernh.	brittle bladderfern	Dryopteridaceae	
93	4	DAGL	Dactylis glomerata L.	orchardgrass	Poaceae	а

94	3	DENU2	Delphinium nuttallianum Pritz. ex Walp.	twolobe larkspur	Ranunculaceae	
95	3	DERIV2	Descurainia richardsonii O.E. Schulz	>>Descurainia incana ssp. viscosa	Brassicaceae	а
96	3	DITR2	Disporum trachycarpum (S. Wats.) Benth.	>>Prosartes trachycarpa	Liliaceae	
97	4	DIST3	Distichlis stricta (Torr.) Rydb.	>>Distichlis spicata	Poaceae	
98	4	DODE	Dodecatheon dentatum Hook.	white shootingstar	Primulaceae	
99	3	DOPU	Dodecatheon pulchellum (Raf.) Merr.	darkthroat shootingstar	Primulaceae	
100	4	DRVE2	Draba verna	spring whitlowgrass	Brassicaceae	
101	4	ELAN	Elaeagnus angustifolia L.	Russian olive	Elaeagnaceae	а
400			Eleocharis palustris (L.) Roemer & J.A.		2	
102	3	ELPA3	Schultes		Cyperaceae	
103	3	LECI4	Leymus cinereus Scribn. & Merr.	Great Basin wildrye	Poaceae	
104	3	ELGL	Elymus glaucus Bucki.		Poaceae	
105	3	EPAN2		>>Chamerion angustifolium	Onagraceae	
106	3	EPGL			Unagraceae	
107	3	EQAR	Equisetum arvense L.		Equisetaceae	
108	4	EQHY	Equisetum hyemale L.	scouringrush horsetail	Equisetaceae	
109	4	EQLA	Equisetum laevigatum A. Braun	smooth horsetail	Equisetaceae	
110	4	EQSC	Equisetum scirpoides Michx.	dwarf scouringrush	Equisetaceae	
111	4	ERCO4	Erigeron compositus Pursh	cutleaf daisy	Asteraceae	
112	3	ERCO5	Erigeron corymbosus Nutt.	longleaf fleabane	Asteraceae	
113	3	ERFI2	Erigeron filifolius (Hook.) Nutt.	threadleaf fleabane	Asteraceae	
114	3	ERLI	Erigeron linearis (Hook.) Piper	desert yellow fleabane	Asteraceae	
115	4	ERPU2	Erigeron pumilus Nutt.	shaggy fleabane	Asteraceae	
116	3	ERSUC	Erigeron subtrinervis Rydb. ex Porter & Britt.	threenerve fleabane	Asteraceae	
117	4	EREL5	Eriogonum elatum Dougl. ex Benth.	tall woolly buckwheat	Polygonaceae	
118	3	ERHE2	Eriogonum heracleoides Nutt.	parsnipflower buckwheat	Polygonaceae	
119	3	ERNI2	Eriogonum niveum Dougl. ex Benth.	snow buckwheat	Polygonaceae	
120	4	ERUM	Eriogonum umbellatum Torr.	sulphur-flower buckwheat	Polygonaceae	
121	3	ERCIC	Erodium cicutarium (L.) L'Hér.	redstem stork's bill	Geraniaceae	а
122	3	FEID	Festuca idahoensis Elmer	Idaho fescue	Poaceae	
123	4	FEMI2	Festuca microstachys Nutt.	>>Vulpia microstachys var. microstachys	Poaceae	а
124	2	FEOV2	Eastura ovina quat non L. [micannliad]	>>Festuca brachyphylla ssp.	Pagaga	
124	3				Actoração	-
125	4		Fritillaria pudica (Pursh) Sprong		Liliaceae	a
120	4	CAAP	Caillardia aristata Purch		Astoração	
127	3	GARO2			Rubiaceae	
120	5	GABOZ			Rublaceae	
129	3	GAMUP2	Galium multiflorum Kellogg	>>Galium serpenticum ssp. puberulum	Rubiaceae	
130	3	GADI2	Gayophytum diffusum Torr. & Gray	spreading groundsmoke	Onagraceae	
131	4	GEVI2	Geranium viscosissimum Fisch. & C.A. Mey.	sticky purple geranium	Geraniaceae	
132	3	GEMA4	Geum macrophyllum Willd.	largeleaf avens	Rosaceae	
133	3	GETRC2	Geum triflorum Pursh	old man's whiskers	Rosaceae	
12/	4	GIAG	Gilia aggregata (Pursh) Spreng	>>Inomonsis aggregata sen aggregata	Polemoniaceae	
125	+ 2		Oliveria elata (Nash ex Dudh) M.E. Jones	 - ipomopsis aggregata ssp. aggregata >>Cluceria striata 	Poacoao	
100	3	GVPA	Gyrsonhila paniculeta	habula broath	Canyonhyllesses	~
130	4	GIPA	Gypsoprilla parliculata	Daby S-DIEdli	Caryophynaceae	d

137	4	НАНУЗ	Habenaria hyperborea (I_) R_Br_ex Ait	>>Platanthera aquilonis	Orchidaceae	
138	3	HAAR3	Hackelia arida (Piper) I M Johnston	>>Hackelia diffusa var arida	Boraginaceae	
139	4	HAWH	Halimolobos whitedii (Piper) Rollins	Whited's fissurewort	Brassicaceae	
140	4	HABL3	Haplopappus bloomeri Grav	>>Fricameria bloomeri	Asteraceae	
141	5	HAGR6	Haplopappus greenei Grav	>>Ericameria greenei	Asteraceae	
142	3	HEUND	Helianthella uniflora (Nutt.) Torr. & Grav	Douglas' helianthella	Asteraceae	
143	3	HECY2	Heuchera cylindrica Dougl, ex Hook.	roundleaf alumroot	Saxifragaceae	
144	3	HISC2	Hieracium scouleri Hook.	Scouler's woollyweed	Asteraceae	
145	4	HODI	Holodiscus discolor (Pursh) Maxim.	Indian plum	Rosaceae	
146	4	HOJU	Hordeum jubatum L.	foxtail barley	Poaceae	а
147	3	HYCA4	Hydrophyllum capitatum Dougl. ex Benth.	ballhead waterleaf	Hydrophyllaceae	
148	5	IVXA	Iva xanthifolia Nutt.	>>Cyclachaena xanthifolia	Asteraceae	а
149	3	JUBA	Juncus balticus Willd.	Baltic rush	Juncaceae	
150	4	JUBU	Juncus bufonius	toad rush	Juncaceae	
151	4	JUTE	Juncus tenuis Willd.	poverty rush	Juncaceae	
152	5	JUCO6	Juniperus communis L.	common juniper	Cupressaceae	
153	4	KOSC	Kochia scoparia	red belvedere	Chenopodiaceae	а
154	3	KOCR	Koeleria cristata auct. p.p., non Pers.	>>Koeleria macrantha	Poaceae	
155	3	LABI	Lactuca biennis (Moench) Fern.	tall blue lettuce	Asteraceae	а
156	3	LASE	Lactuca serriola L.	prickly lettuce	Asteraceae	а
157	3	LEVIP	Lepidium virginicum L.	hairy pepperweed	Brassicaceae	
158	4	LEPU	Leptodactylon pungens (Torr.) Torr.	>>Linanthus pungens	Polemoniaceae	
159	5	LERE7	Lewisia rediviva Pursh	bitter root	Portulacaceae	
160	4	LICO	Lilium columbianum Leichtl. in Duchartre	Columbia lily	Liliaceae	
161	4	LIPH3	Linanthus pharnaceoides (Benth.) Greene	>>Leptosiphon liniflorus	Polemoniaceae	
162	3	LIDA	Linaria dalmatica (L.) P. Mill.	Dalmatian toadflax	Scrophulariaceae	а
163	4	LIBU2	Lithophragma bulbifera Rydb.	>>Lithophragma glabrum	Saxifragaceae	
164	3	LIGL2	Lithophragma glabrum Nutt.	bulbous woodland-star	Saxifragaceae	
165	3	LIAR4	Lithospermum arvense L.	>>Buglossoides arvensis	Boraginaceae	а
166	3	LIRU4	Lithospermum ruderale Dougl. ex Lehm.	western stoneseed	Boraginaceae	
167	3	LOAM	Lomatium ambiguum (Nutt.) Coult. & Rose	Wyeth biscuitroot	Apiaceae	
168	3	LODI	Lomatium dissectum (Nutt.) Mathias	fernleaf biscuitroot	Apiaceae	
			Lomatium macrocarpum (Nutt.) Coult. &			
169	4	LOMA3			Apiaceae	
170	3	LONU2	Lomatium nudicaule (Pursh) Coult. & Rose		Apiaceae	
171	4		Lonicera involucrata (Richards.) Banks		Caprifoliaceae	
172	4	LUDE	Lotus denticulatus (E. Drew) Greene	riverbar bird's-toot tretoli	Fabaceae	
173	4				Fabaceae	
174	3	LUSE4			Fabaceae	
175	4		Luzula parvillora (Enm.) Desv.	Smallhowered woodrush	Juncaceae	
170	4				Caryophyllaceae	a
177	5			>>Silene dioica	Caryophyliaceae	а
178	4	WAEX		sman tarweed	Asteraceae	
179	4	MAGR3	Applegate	grassy tarweed	Asteraceae	
180	4	MANE	Malva neglecta Wallr.	common mallow	Malvaceae	а
181	4	MAMA11	Matricaria matricarioides (Less.) Porter	>>Matricaria discoidea	Asteraceae	а
182	3	MELU	Medicago lupulina L.	black medick	Fabaceae	а
183	3	MESA	Medicago sativa L.	alfalfa	Fabaceae	а

184	3	MEBU	Melica bulbosa Geyer ex Porter & Coult.	oniongrass	Poaceae	а
185	4	MEOF	Melilotus officinalis (L.) Lam.	yellow sweetclover	Fabaceae	а
186	3	MEAR4	Mentha arvensis L.	wild mint	Lamiaceae	
187	4	MEAL6	Mentzelia albicaulis (Dougl. ex Hook.) Dougl.	whitestem blazingstar	Loasaceae	
188	3	MEDI	Mentzelia dispersa S. Wats.	bushy blazingstar	Loasaceae	
189	4	MELA2	Mentzelia laevicaulis (Dougl.) Torr. & Gray	smoothstem blazingstar	Loasaceae	
190	3	MELO4	Mertensia longiflora Greene	small bluebells	Boraginaceae	
191	4	MINU	Microseris nutans (Hook.) Schultz-Bip.	nodding microceris	Asteraceae	
192	3	MIGR	Microsteris gracilis (Hook.) Greene	slender phlox	Polemoniaceae	
193	4	MIGU	Mimulus guttatus	yellow monkeyflower	Scrophulariaceae	
194	4	MITR4	Mitella trifida Graham	threeparted miterwort	Saxifragaceae	
195	4	MOPE3	Montia perfoliata T.J. Howell	>Claytonia perfoliata ssp. perfoliata	Caryophyllaceae	
196	4	MYLA	Myosotis laxa Lehm.	bay forget-me-not	Boraginaceae	
197	3	NEBR	Nemophila breviflora Gray	basin nemophila	Hydrophyllaceae	
198	4	NECA2	Nepeta cataria L.	catnip	Lamiaceae	а
199	4	ORUN	Orobanche uniflora	naked broomrape	Orobanchaceae	
200	3	OSCH	Osmorhiza chilensis Hook. & Arn.	>>Osmorhiza berteroi	Apiaceae	
201	3	PAMY2	Pachystima myrsinites (Pursh) Raf.	>>Paxistima myrsinites	Celastraceae	
202	4	PECO6	Penstemon confertus Dougl. ex Lindl.	yellow penstemon	Scrophulariaceae	
203	3	PEFR3	Penstemon fruticosus (Pursh) Greene	bush penstemon	Scrophulariaceae	
204	3	PEPR3	Penstemon pruinosus Dougl. ex Lindl.	Chelan beardtongue	Scrophulariaceae	
205	4	PHHA	Phacelia hastata Dougl. ex Lehm.	silverleaf phacelia	Hydrophyllaceae	
206	4	PHHU	Phacelia humilis Torr. & Gray	low phacelia	Hydrophyllaceae	
207	3	PHLI	Phacelia linearis (Pursh) Holz.	threadleaf phacelia	Hydrophyllaceae	
208	3	PHAR3	Phalaris arundinacea L.	reed canarygrass	Poaceae	а
209	4	PHPR3	Phleum pratense	timothy	Gramineae	
210	3	PIPO	Pinus ponderosa P.& C. Lawson	ponderosa pine	Pinaceae	
211	3	PLMA2	Plantago major L.	common plantain	Plantaginaceae	а
212	3	POAN	Poa annua L.	annual bluegrass	Poaceae	а
213	3	POBU	Poa bulbosa L.	bulbous bluegrass	Poaceae	а
214	4	PONE2	Poa nervosa (Hook.) Vasey	Wheeler bluegrass	Poaceae	
215	3	PONE3	Poa nevadensis Vasey ex Scribn.	>>Poa secunda	Poaceae	
216	3	POPR	Poa pratensis L.	Kentucky bluegrass	Poaceae	а
217	4	POSE	Poa secunda J. Presl	Sandberg bluegrass	Poaceae	
218	4	POAV	Polygonum aviculare L.	prostrate knotweed	Polygonaceae	
219	4	POCO10	Polygonum convolvulus L.	black bindweed	Polygonaceae	а
220	3	POMA9	Polygonum majus (Meisn.) Piper	>>Polygonum douglasii ssp. majus	Polygonaceae	
221	5	POPE3	Polygonum persicaria L.	spotted ladysthumb	Polygonaceae	
222	3	POTR5	Populus tremuloides Michx.	quaking aspen	Salicaceae	
223	5	POTR15	Populus trichocarpa Torr. & Gray ex Hook.	>>Populus balsamifera ssp. trichocarpa	Salicaceae	
224	4	POTAM	Potamogeton L.	pondweed	Potamogetonaceae	
225	3	POAN5	Potentilla anserina L.	>>Argentina anserina	Rosaceae	
226	3	POGL9	Potentilla glandulosa Lindl.	sticky cinquefoil	Rosaceae	
227	3	POGR9	Potentilla gracilis Dougl. ex Hook.	slender cinquefoil	Rosaceae	
228	4	PREM	Prunus emarginata (Dougl.) D. Dietr.	bitter cherry	Rosaceae	
229	3	PRVI	Prunus virginiana L.	chokecherry	Rosaceae	
230	3	PSME	Pseudotsuga menziesii (Mirbel) Franco	Douglas-fir	Pinaceae	

231	3	ΡΤΑΟ	Pteridium aquilinum (L.) Kuhn	bracken fern	Dennstaedtiaceae	
232	4	PTAN2	Pterospora andromedea Nutt	woodland pinedrops	Monotropaceae	
233	3	PUTR2	Purshia tridentata (Pursh) DC	antelope bitterbrush	Rosaceae	
234	4	PYAS	Pvrola asarifolia Michx.	liverleaf wintergreen	Pvrolaceae	
235	4	PYMI	Pyrola minor L.	snowline wintergreen	Pvrolaceae	
236	4	PYSE	Pvrola secunda L.	>>Orthilia secunda	Pvrolaceae	
237	4	RAAQC2	Ranunculus aquatilis L.	>>Ranunculus trichophyllus	Ranunculaceae	
238	4	RAFL	Ranunculus flabellaris Raf.	vellow water buttercup	Ranunculaceae	
239	3	RAGL	Ranunculus glaberrimus Hook.	sagebrush buttercup	Ranunculaceae	
240	4	RAMA2	Ranunculus macounii Britt.	Macoun's buttercup	Ranunculaceae	
241	3	RASCM	Ranunculus sceleratus L.	cursed buttercup	Ranunculaceae	
242	4	RAUN	Ranunculus uncinatus D. Don ex G. Don	woodland buttercup	Ranunculaceae	
243	4	RHGL	Rhus glabra	western sumac	Anacardiaceae	
			Rhus radicans L. var. rydbergii (Small ex			
244	4	RHRAR	Rydb.) Rehd.	>>Toxicodendron rydbergii	Anacardiaceae	
245	4	RICE	Ribes cereum Dougl.	wax currant	Grossulariaceae	
246	3	RIHUP	Ribes hudsonianum Richards.	stinking current	Grossulariaceae	
247	3	RILA	Ribes lacustre (Pers.) Poir.	prickly currant	Grossulariaceae	
248	4	RONA2	Rorippa nasturtium-aquaticum (L.) Hayek	>>Nasturtium officinale	Brassicaceae	а
249	3	RONU	Rosa nutkana K. Presl	Nootka rose	Asteraceae	
250	3	ROWO	Rosa woodsii Lindl.	Woods' rose	Rosaceae	
251	4	RUID	Rubus idaeus L.	American red raspberry	Rosaceae	
252	4	RUCR	Rumex crispus	curly dock	Polygonaceae	а
253	4	SAEX	Salix exigua Nutt.	narrowleaf willow	Salicaceae	
254	5	SALA*	Salix lasiandra Benth.	whiplash willow	Salicaceae	
255	4	SARI*	Salix rigida Muhl.	>>Salix prolixa	Salicaceae	
256	3	SASC	Salix scouleriana Barratt ex Hook.	Scouler's willow	Salicaceae	
257	4	SAKA	Salsola kali L.	Russian thistle	Chenopodiaceae	а
258	4	SACE3	Sambucus cerulea Raf	>>Sambucus nigra ssp. caerulea	Caprifoliaceae	
259	5	SAMI3	Sanguisorba minor Scop.	small burnet	Rosaceae	а
260	4	SAAR13	Saxifraga arguta auct. non D. Don	>>Saxifraga odontoloma	Saxifragaceae	
261	3	SAOC4	Saxifraga occidentalis S. Wats.	Alberta saxifrage	Saxifragaceae	
262	4	SCAC	Scirpus acutus Muhl. ex Bigelow	>>Schoenoplectus acutus var. acutus	Cyperaceae	
263	3	SCAM2	Scirpus americanus Pers.	>>Schoenoplectus americanus	Equisetaceae	
264	3	SCMI2	Scirpus microcarpus J.& K. Presl	panicled bulrush	Cyperaceae	
265	4	SELA	Sedum lanceolatum Torr.	spearleaf stonecrop	Crassulaceae	
266	4	SEDE2	Selaginella densa Rydb.	lesser spikemoss	Selaginellaceae	
267	3	SEIN2	Senecio integerrimus Nutt.	lambstongue ragwort	Asteraceae	
268	5	SEST3	Senecio streptanthifolius Greene	>>Packera streptanthifolia	Asteraceae	
269	4	SELU4	Setaria lutescens	yellow bristlegrass	Gramineae	а
270	4	SHCA	Shepherdia canadensis (L.) Nutt.	russet buffaloberry	Elaeagnaceae	
271	4	SIDO	Silene douglasii Hook.	Douglas' silene	Caryophyllaceae	
272	3	SIMEM	Silene menziesii Hook. ssp. menziesii	Menzies' campion	Caryophyllaceae	
273	3	SIAL2	Sisymbrium altissimum L.	tall tumblemustard	Brassicaceae	а
274	4	SMRAA	Smilacina racemosa (L.) Desf.	>>Maianthemum racemosum	Liliaceae	
275	3	SMST	Smilacina stellata (L.) Desf.	>>Maianthemum stellatum	Liliaceae	
276	4	SODU	Solanum dulcamara L.	climbing nightshade	Solanaceae	а
277	3	SOCA6	Solidago canadensis L.	Canada goldenrod	Asteraceae	

278	5	SOSC2	Sorbus scopulina Greene	Greene's mountain ash	Rosaceae	
279	4	SPBE2	Spiraea betulifolia Pallas	white spirea	Rosaceae	
280	4	STUM	Stellaria umbellata Turcz. ex Kar. & Kir.	umbrella starwort	Caryophyllaceae	
281	4	STTE2	Stephanomeria tenuifolia (Raf.) Hall	>>Stephanomeria minor var. minor	Asteraceae	
282	3	STCO4	Stipa comata Trin. & Rupr.	>>Hesperostipa comata ssp. comata	Poaceae	
283	3	STOC2	Stipa occidentalis Thurb. Ex s. Wats.	>>Achnatherum occidenale	Poaceae	
284	3	SYAL	Symphoricarpos albus (L.) Blake	common snowberry	Caprifoliaceae	
285	3	SYOR2	Symphoricarpos oreophilus Gray	mountain snowberry	Caprifoliaceae	
286	3	TAOF	Taraxacum officinale G.H. Weber	dandelion	Asteraceae	а
287	4	TRDU	Tragopogon dubius Scop.	yellow salsify	Asteraceae	а
288	4	TRPR2	Trifolium pratense	red clover	Leguminosae	
289	4	TRRE3	Trifolium repens L.	white clover	Fabaceae	а
290	3	TYLA	Typha latifolia L.	broadleaf cattail	Typhaceae	
291	3	URDI	Urtica dioica L.	nettle	Urticaceae	
292	4	UTVU	Utricularia vulgaris	common bladderwort	Lentibulariaceae	
293	3	VETH	Verbascum thapsus L.	common mullein	Scrophulariaceae	а
294	3	VEAM2	Veronica americana Schwein. ex Benth.	American speedwell	Scrophulariaceae	
295	3	VEBI2	Veronica biloba L.	twolobe speedwell	Scrophulariaceae	а
296	3	VESE	Veronica serpyllifolia L.	thymeleaf speedwell	Scrophulariaceae	
297	3	VIAD	Viola adunca Sm.	hookedspur violet	Violaceae	
298	3	VIGL	Viola glabella Nutt.	pioneer violet	Violaceae	
299	3	VINUV	Viola nuttallii Pursh	>>Viola vallicola var. vallicola	Violaceae	
300	3	VIPA4	Viola palustris L.	marsh violet	Violaceae	
301	4	WOSC	Woodsia scopulina D.C. Eat.	Rocky Mountain woodsia	Dryopteridaceae	
302	3	ZIVE	Zigadenus venenosus S. Wats.	meadow deathcamas	Liliaceae	
Non-native Plant Species of the Project Area, arranged alphabetically by scientific name. For the implication of the noxious "class" rating, see Appendix C.

#	Abun	Code	Scientific Name	Common Name/Accepted Synonym	Family	Alien
1	3	AGCR	Agropyron cristatum (L.) Gaertn.	crested wheatgrass	Poaceae	а
6	3	AGRE2	Agropyron repens (L.) Beauv.	>>Elymus repens	Poaceae	а
23	3	ARMI2	Arctium minus Bernh.	lesser burdock	Asteraceae	а
29	4	ARDR4	Artemisia dracunculus L.	tarragon	Asteraceae	а
33	3	ASPR	Asperugo procumbens L.	German-madwort	Boraginaceae	а
45	3	BRCO4	Bromus commutatus Schrad.	>>Bromus racemosus	Poaceae	а
46	3	BRIN2	Bromus inermis Leyss.	smooth brome	Poaceae	а
47	3	BRTE	Bromus tectorum L.	cheatgrass	Poaceae	а
51	4	CAMI2	Camelina microcarpa Andrz. ex DC.	littlepod false flax	Brassicaceae	а
52	2	CADR	Cardaria draba (L.) Desv.	whitetop	Brassicaceae	а
62	3	CEDI3	Centaurea diffusa Lam.	diffuse knapweed	Asteraceae	а
63	3	CERE6	Centaurea repens	Russian knapweed	Asteraceae	а
66	3	CHAL7	Chenopodium album L.	lambsquarters	Chenopodiaceae	а
67	5	CHBO2	Chenopodium botrys L.	Jerusalem oak goosefoot	Chenopodiaceae	а
69	4	CHTE2	Chorispora tenella (Pallas) DC.	crossflower	Brassicaceae	а
72	3	CIAR4	Cirsium arvense (L.) Scop.	Canada thistle	Asteraceae	а
73	4	CIVU	Cirsium vulgare	bull thistle	Asteraceae	а
81	4	COAR4	Convolvulus arvensis L.	field bindweed	Convolvulaceae	а
82	4	COCA5	Convza canadensis (L.) Crong.	Canadian horseweed	Asteraceae	а
90	3	CUAP2	Cuscuta approximata Bab.	alfalfa dodder	Cuscutaceae	a
93	4	DAGI	Dactylis glomerata I	orchardgrass	Poaceae	
95	3	DFRIV2	Descurainia richardsonii O E. Schulz	>>Descurainia incana ssp. viscosa	Brassicaceae	a
101	4	FLAN	Elaeagnus angustifolia I	Russian olive	Elaeagnaceae	
121	3	FRCIC	Frodium cicutarium (L.) L'Hér	redstem stork's bill	Geraniaceae	a
123	4	ER010	Eestuca microstachys Nutt	>>Vulpia microstachys var. microstachys	Poaceae	a
125	4		Filago arvensis I			а а
120	4	GYPA	Gypsonhila paniculata	haby's-breath	Carvonhyllaceae	а а
146	4	НОШ	Hordeum jubatum I	foxtail barley	Poaceae	а а
140	-	11/20	Iva vanthifolia Nutt	>>Cyclachaena yanthifolia		a 2
152	3	KOSC			Chononodiacoao	a 2
155	7	LARI	Lactuca biennis (Moench) Fern		Asteraceae	a 2
156	3				Asteraceae	a 2
162	3		Linaria dalmatica (L.) P. Mill	Dalmatian toadflax	Scrophulariaceae	a
165	2				Boroginopooo	a
176	3				Carvophyllacoao	a
170	4				Carvophyllaceae	a
190	5	MANE	Lychinis diolca L. Malva poglocta Wallr		Malyacaa	a
100	4		Matriagria matriagriaidas (Lass.) Dortor		Actoraceae	a
101	4		Madiagage lugging L		Asteraceae	a
102	3	MESA	Medicago lupulita L.		Fabaceae	a
105	3	MEOE	Metilotus officiandia (L.) Lom		Fabaceae	a
100	4	NEOF			Fabaceae	a
198	4				Lamaceae	a
208	3		Plantage major l		Plantaging and	a
211	3				Pagaaaa	a
212	3		r va aiiliud L. Doo bulboco l		Poaceae	d
213	3	POBU	Poa bulbosa L.		Poaceae	a
216	3	POPR	Poa pratensis L.	Kentucky bluegrass	Poaceae	a
219	4		Polygonum convolvulus L.		Polygonaceae	a
248	4	RUNAZ	Ronppa nasturtium-aquaticum (L.) Hayek		Brassicaceae	а
202	4	RUCK	Rumex clispus	Curry COCK	Changes	ä
25/	4	SAKA	Saisula Kall L.		Descara	a
259	D A	SAIVII3	Sanguisorba minor Scop.		Rosaceae	a
209	4	SELU4		yellow Dristlegrass	Gramineae	a
2/3	3	SIAL2			Brassicaceae	a
2/6	4	5000			Solanaceae	а
286	3	TAUF	Transacum omicinale G.H. Weber		Asteraceae	a
287	4		Tragopogon dubius Scop.		Asteraceae	a
289	4	IKKE3	I ritolium repens L.			а
293	3	VEIH	Verbascum thapsus L.		Scropnulariaceae	а
295	3	VEBI2	veronica biloba L.	twolobe speedwell	Scrophulariaceae	а

Non-native Plant Species of The Project Area, arranged in order of abundance. Column 8, Type: A= annual, B= biennial, P= perennial, RP= rhizomatous perennial, S= shrub.

#	Abun	Noxious?	Code	Scientific Name	Common Name	Origin	Type
1	2	Class B	CADR	Cardaria draba (L.) Desv.	whitetop	Europe	RP
2	3		AGCR	Agropyron cristatum (L.) Gaertn.	crested wheatgrass	Russian steppe	Р
3	3		AGRE2	Agropyron repens (L.) Beauy.	quackgrass	Eurasia	RP
4	3		ARMI2	Arctium minus Bernh.	lesser burdock	Europe	В
5	3		ASPR	Asperugo procumbens L.	German-madwort	Europe	A
6	3		BRCO4	Bromus commutatus Schrad	hairy brome	Europe	A
7	3		BRIN2	Bromus inermis Levss	smooth brome	Eurasia	RP
8	3		BRTE	Bromus tectorum I	cheatorass	Europe	Δ
a	3	Class B		Centaurea diffusa Lam	diffuse knapweed	Europe	B
10	3	Class B	CERES	Centaurea renens	Russian knapweed	Eurasia	
10	3	Class D		Chananadium album I		Europo	
12	3	Class P			Conodo thiotlo	Europe	
12	3	Class D		Cuseute energyimete Deb		Eurasia	
13	3					Eurasia	A
14	3		DERIV2			Native	A
15	3		ERCIC	Erodium cicutarium (L.) L'Her.	redstem stork's bill	Eurasia	A
16	3		LABI	Lactuca biennis (Moench) Fern.	tall blue lettuce	Native	В
17	3		LASE	Lactuca serriola L.	prickly lettuce	Europe	В
18	3	Class B	LIDA	Linaria dalmatica (L.) P. Mill.	Dalmatian toadflax	Europe	RP
19	3		LIAR4	Lithospermum arvense L.	>>Buglossoides arvensis	Europe	A
20	3		MELU	Medicago lupulina L.	black medick	Eurasia	A
21	3		MESA	Medicago sativa L.	alfalfa	Eurasia	Р
22	3	Class C	PHAR3	Phalaris arundinacea L.	reed canarygrass	Eurasia	RP
23	3		PLMA2	Plantago major L.	common plantain	Europe	Р
24	3		POAN	Poa annua L.	annual bluegrass	Europe	A
25	3		POBU	Poa bulbosa L.	bulbous bluegrass	Europe	Р
26	3		POPR	Poa pratensis L.	Kentucky bluegrass	Europe	RP
27	3		SIAL2	Sisymbrium altissimum L.	tall tumblemustard	Europe	A
28	3		TAOF	Taraxacum officinale G.H. Weber	dandelion	Europe	Р
29	3	Class C	VETH	Verbascum thapsus L.	common mullein	Asia	В
30	3		VEBI2	Veronica biloba L.	twolobe speedwell	Eurasia	Α
31	4		ARDR4	Artemisia dracunculus L.	tarragon	Native	P
32	4		CAMI2	Camelina microcarpa Andrz ex DC	littlepod false flax	Europe	Α
33	4		CHTF2	Chorispora tenella (Pallas) DC	crossflower	Eurasia	A
34	4	Class C	CIVU	Cirsium vulgare	bull thistle	Eurasia	B
35	4	01000 0	COAR4		field hindweed	Europe	RP
36	4			Convza canadensis (L.) Crong	Canadian horseweed	Native	Δ
37				Dactylis glomerata I	orchardgrass	Euracia	
20	4					Europo	F
20	4		ELAN	Elacayilus aligustilolla L.		Europe	3
39	4					Europe	A
40	4			Filago arvensis L.	hehule heesth	Europe	A
41	4	Class C	GIPA		baby s-breath	Europe	
42	4	01	HUJU			inative	Р ,
43	4	Class C	KUSC			Asia	A
44	4		LYAL			Europe	В
45	4		MANE	Iviaiva neglecta Wallr.	common mallow	Europe	В
46	4		MAMA11	Matricaria matricarioides (Less.) Porter	pineapple weed	Native	A
47	4		MEOF	Melilotus officinalis (L.) Lam.	yellow sweetclover	Eurasia	B
48	4		NECA2	Nepeta cataria L.	catnip	Eurasia	P
49	4		POCO10	Polygonum convolvulus L.	black bindweed	Europe	A
50	4		RONA2	Rorippa nasturtium-aquaticum Hayek	watercress	Eurasia	P
51	4		RUCR	Rumex crispus	curly dock	Eurasia	P
52	4	Class C	SAKA	Salsola kali L.	Russian thistle	Russia	A
53	4		SELU4	Setaria lutescens	yellow bristlegrass	Eurasia	A
54	4		SODU	Solanum dulcamara L.	climbing nightshade	Europe	Р
55	4		TRDU	Tragopogon dubius Scop.	yellow salsify	Eurasia	В
56	4		TRRE3	Trifolium repens L.	white clover	Europe	Р
57	5		CHBO2	Chenopodium botrvs L.	Jerusalem oak goosefoot	Eurasia	Α
58	5		IVXA	Iva xanthifolia Nutt.	tall marsh-elder	Central NA	Α
59	5		LYDI5	Lychnis dioica L.	red catchflv	Europe	Р
60	5		SAMI3	Sanguisorba minor Scop.	small burnet	Europe	Р

Ecological Condition of the Project Area

The ecological condition of each polygon was evaluated according to a simple ranking system (Appendix D) during our field visits and record in our polygon forms (Appendix E).

The portion of the Methow Wildlife Area surveyed and mapped in the course of this project earns a mixed ecological scorecard. On the positive side, there are numerous plant communities that are well within parameters that indicate good or better ecological health. With over 300 vascular plant species identified in the relatively small project area, it appears that most of the native plant species that were present before Anglo-American settlement are still extant. The 302 vascular plant species identified in the project area represent 27% of the 1100 plant species known in the entire Methow watershed, while the land area involved is less than 1% of the watershed (2,107 acres surveyed). On the negative side of the ledger, non-native plant species have become a major component of the overall flora of the project area due to human-caused disturbance, with the attendant loss of native plant species abundance, and inevitable ripple affect on native wildlife species. The 60 non-native plant species in the project area comprise 20% of the total number of species present.

The major impacts on the project area over the past 100 years include: 1) Almost all of the project area was divided up into small farms and ranches from 1900 to the time the land was acquired by the WDFW. The low-relief areas were generally plowed and planted into grains and/or alfalfa, and the remaining shrub-steppe and forest was grazed by cattle. 2) Forested areas were selectively logged throughout the 1900s. 3) Roads are numerous and increase both the immediate human impact on the adjoining plant communities and act as vectors for the introduction of non-native species. 4) Fires have been suppressed in the project area as they have been throughout the west since 1900, with until-recently poorly understood impacts on the fire-evolved, fire-dependent plant communities and ecosystems inhabit this land.

Many acres in the project area have been plowed in the past, with the resulting complete loss of native vegetation. Most of these temporal agricultural fields have now been abandoned, and are populated by both non-native colonizer species such as cheatgrass (*Bromus tectorum*) and diffuse knapweed (*Centaurea diffusa*), and native "increaser" species such as western needlegrass (*Stipa occidentalis*), tall buckwheat (*Eriogonum heracloidesi*), and silky lupine (*Lupinus sericeus*).

Grazing in the vernal (wet in spring, dry in summer) wetlands may have caused as great a loss of native species as plowing. Because these areas have abundant late spring and early summer moisture, they supported an entirely different plant community than the surrounding, dominant shrub-steppe. But the additional available moisture also means that the annual production of herbaceous biomass is greater than in the shrub-steppe, and the plants stay green longer into the hot, arid summer of the region. Cattle therefore congregated in these vernal wetlands for extended periods of time and decimated the native plant populations. These areas, which would have in the past contained a wide diversity of plant species, are now often dominated by non-native species, such as whitetop (*Cardaria draba*), Canada thistle (*Cirsium arvense*), and canary reedgrass (*Phalaris arundinaceai*). The ecological rating of these potentially rich habitats is generally "poor."

To their credit, the first wave of Anglo-European settlers in the area often logged selectively, taking the large diameter trees (often ponderosa pine), with the expectation that the remaining smaller trees would fill the void. That void often was filled, but often not by one large tree by rather by a plethora of small ones, crowded together and suppressing the growth of all. This was in part due to the suppression of the

natural fires that would have burned through a given area at regular intervals, thinning out the crowded saplings and creating openings conducive to successful ponderosa pine regeneration. It is common now for the forested portions of the project area to be overstocked, that is, over-crowded with small-diameter trees that prevent the re-emergence of the previously existing old growth ponderosa pine and Douglas-fir forests.

The numerous roads in the project area allow non-native plant species to travel by car and truck into new habitats. Colonizer plant species have co-evolved with various forms of intense disturbance, so they often feel very much at home in the areas that their vehicular transport drops them off. This is one of the several reasons that non-native plant species are pervasive in the project area.

Most of the project area under natural conditions would have a fire periodicity of 8-15 years; naturallycaused fire would burn through any given area at that level of frequency (Ohlson 1996). Over thousands and perhaps millions of years, plant species that thrived in this environment inevitably evolved the means to co-exist and even depend upon regular fire events. Thus when the new dominant culture successfully suppressed fire over the past 100 years, it altered the natural course of environmental stimulus that the local flora had become fully adapted to.

A primary impact on forest areas has already been mentioned; the legions of young trees that germinate in openings are no longer thinned by fire, and often grow into spindly, suppressed thickets. In the shrubsteppe, the woody shrubs, especially bitterbrush, increase in size and number at the expense of the competing herbaceous perennials and grasses. In the project area bitterbrush often exceeds the 10% maximum cover that is considered optimum for this plant community.

On the positive side of the ledger, we have previously mentioned that the overall plant diversity of the project area remains high, and there are areas of shrub-steppe and forest that are in remarkably good ecological condition, given the challenges of the past century. It should be noted as well that the majority of the non-native plant species present are early seral plants that are dependent upon on-going disturbance for their on-going success. As the impact of human society upon the land diminishes, natural processes will re-assert their authority and, at least by degrees, the plant and animal communities of the area will drift towards and ecological continuum that is once again dictated by the flow of natural events.



Mountain ladys-slipper (*Cypripedium montanum*) a denizen of late-seral forests in the Methow Wildlife Area.

GIS Products Produced

Associated with this report are polygon layers created by PBI depicting the vegetation community types mapped in The Project Area of the Methow Wildlife Area. The datasets have been converted into ESRI shapefile format and provided to the Washington State Parks and Recreation Commission and Washington Department of Fish and Wildlife. Shapefiles depicting rare plant locations have been provided as well. The spatial datasets are complete with metadata meeting FGDC standards. Refer to the associated metadata for descriptions and attribute definitions for each spatial dataset.

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Appendix A – Field Survey Schedule and Routes

Field Survey Dates: May 25, May 28, May 29, June 4, June 5, June 6, June 7, June 9, June 12, June 21, June 22, June 23, June 25, June 26, June 27, October 12, and November 8.



Appendix B – Washington Natural Heritage Program Rare Plant Sighting Forms

Washington Natural Heritage Program Rare Plant Sighting Form:

Taxon Name: *Cryptantha spiculifera* EO #: Are you confident of the identification? Yes:

Survey Site Name: Eagle Rocks, Balky Hill, Methow Valley Surveyor's Name/Phone/Email: Dana Visalli 509-997-9011 dana@methow.com Survey Date: 2006-05-14 (yr-mo-day) County: Okanogan Quad Name: Blue Buck Mountain Township: 33N Range: 22E Section(s): 5 NE1/4 of NW1/4:

Directions to site: Take 'Eastside County Road towards Winthrop from Twisp; drive 2.6 miles to Balky Hill Road turnoff on right, turn right, drive 1 mile to point where road rounds the southern flank of the hill and turns north. Park and hike north on the sloping ridge leading to the rocky summit of 'Eagle Rocks' (the cliffs that overlook the turnoff onto the Balky Hill road. CRSP grows on the upper portion of the west-facing cliffs, on rocky shoulders that extend out before the sheer drop-off.

Mapping (see instructions): Attach a copy of the USGS 7.5 minute quad with the location and extent of the rare plant population clearly drawn. Do not reduce or enlarge the photocopy or printout of the map. If your map is a different scale (not recommended) please write the scale on the map.

Please answer the following:

1. I used GPS to map the population: No (skip to #2) <u>Yes</u> (complete #1 & #3) Coordinates are in electronic file on diskette (preferred) Yes. <u>Coordinates written below</u> or attached. Description of what coordinates represent:

GPS accuracy: Uncorrected <u>Corrected to <5m</u> GPS datum: NAD 27 Zone 10 GPS coordinates: 2. I used a topographic map to map the population: Yes (complete #2)

On the same map, use a highlighter to identify the outer boundary of the area where the population could be, given the uncertainties about your exact location.

To the best of my knowledge, I mapped the entire extent of this population <u>Yes</u> Is a revisit needed? <u>No</u> Ownership (if known): Washington Department of Fish and Wildlife

Population Size (# of individuals or ramets) or estimate: Approximately 100 plants

Population (EO) Data (include population vigor, microhabitat, phenology, etc.): CRSP at this site grows in cracks in the conglomerate sedimentary rock itself. On nearby hills it grows on gravelly, decomposing sedimentary rock. The sites are harsh, getting full sun, little rain, and with little soil; the plants are vigorous.

Plant Association: PIPO/PUTR/AGSP (Lilybridge)

Associated Species (include % cover by layer and by individual species for dominants in each layer): Lichen/moss layer: 75% on the surround rocks, mostly crustose lichens

Herb layer: 5% on the rocks, ERLI, GIAG, PHLI,

Shrub layer(s): 2% on the rocks, mostly PUTR and ARMI

Tree layer: none

General Description (include description of landscape, surrounding plant communities, land forms, land use, etc.): Plants grow at the edge of a sheer, south-facing cliff. Surrounding habitat is PIPO/PUTR.

Minimum elevation (ft.):3430 Maximum elevation (ft.): 2450 Size (acres): 5 Aspect: 275 degrees Slope Variable, flat ridge to steep rocky faces Photo taken? Yes

Management Comments (exotics, roads, shape/size, position in landscape, hydrology, adjacent land use, cumulative effects, etc.): Growing sites are essentially inaccessible except to photographers.

Protection Comments (legal actions/steps/strategies needed to secure protection for the site): Much of the site is owned by WDFW.

Additional Comments (discrepancies, general observations, etc.):

Please mail completed form with map: WASHINGTON NATURAL HERITAGE PROGRAM DEPARTMENT OF NATURAL RESOURCES PO BOX 47014, OLYMPIA WA 98504-7014 Rare plant info redacted. Contact Washington State Parks and Recreation Commission for further information.

Cryptantha spiculifera site (red triangle)

Appendix C – Noxious Weed Ratings

Class A noxious weeds are non-native species whose distribution in Washington State is still limited.

- Eradicating existing infestations and preventing new infestations are the highest priorities.
- Eradication of all Class A plants is required by law.

Class B noxious weeds are non-native species whose distribution is limited to portions of Washington State.

- Species are designated for control in state regions where they are not yet widespread. Prevention of new infestations in these areas is the primary goal.
- In regions where a Class B species is already abundant, control is decided at the local level. Containment of these weeds is the primary goal so that they do not spread into uninfested regions.

Class C noxious weeds are either already widespread in Washington or are of special interest to the agricultural industry.

- The Class C status allows a county to enforce control if it beneficial to that county (for example, to protect crops).
- Other counties may choose to provide education or technical support for the removal or control of these weeds.

Appendix D – Ecological Condition Ranking System

Ecological Condition Ranks

When assessing conservation priorities and management decisions, it can be useful to rank natural communities into levels of ecological condition. For example, an unfragmented area with high native species diversity, absence of non-native species and little soil erosion often has greater conservation value than another area in the same habitat type that is fragmented, infested with weeds or has erosion problems. Likewise, areas with a lower ecological condition rank may be targets for restoration activities.

The flowing ecological condition ranks were applied to vegetation polygons that were surveyed in this project:

Condition Rank 1. This condition class represents areas that have been altered to the point where the ecological condition often deviates dramatically from baseline conditions found in areas where stressors are much less prevalent. Areas characterized by Condition Class 1 often have high amounts of bare ground and/or non-native plant cover. The structure is often significantly altered from baseline conditions. Often one or more of the structural layers (trees, shrubs, herbs, grasses, mosses & lichens, biotic crust) may be significantly altered or even missing from the community. The composition of native vegetation is skewed toward species that can survive despite regular disturbance. Species diversity of native plants is usually low and native grass species are usually absent or in very low abundance (for a given community type). Evidence of accelerated erosion and soil compaction may be present. Hydrologic alteration may also be present. Significant direct evidence of various stress factors is usually abundant. Rare plant and animal species generally do not occur in this condition class.

Condition Rank 2. This condition class represents areas that show a fairly broad range of stress ranging from high to moderately low impact from a variety of stressors. Areas characterized by Condition Class 2 usually have moderate levels of non-native plant cover. The structure of the natural community present in Condition Class 2 areas is often relatively intact when compared to baseline conditions. Usually all structural layers are present, but form and stature may be altered from baseline condition. Soil surface conditions are often intermediate between those in Condition Class 1 and Condition Class 3. Species diversity of native plants is often moderate for that community. Non-native species are usually present, but not as common or abundant as in Condition Class 1. Native grass species are often present, but usually in low abundance for that community type. Diversity of native grass species is relatively low when compared to baseline conditions. Evidence of accelerated erosion and soil compaction may be present in isolated areas, but is not dramatic or widespread. Hydrologic alteration is absent. Direct signs of stressors may be present, but not widespread or abundant. Rare plant and animal species may be found in this condition class are relatively tolerant of the stressors that are present.

Condition Rank 3. This condition class represents areas that show the least stress in the project area and are the closest to representing baseline conditions. Areas characterized by Condition Class 3 have little evidence of non-native plant invasion. The composition and structure of native vegetation in this condition class correspond to the natural ranges of variation characteristic to this habitat type. Old-growth conditions may exist. Species diversity of native plants is often high relative to the community under consideration. Native grass species are usually present and often fairly abundant for the community type. Species diversity of native grass species is also often high. Soil compaction, accelerated erosion and hydrologic alteration are absent. Direct signs of stressors are usually absent. Certain rare species may only exist within this condition class and rare species are generally more common than in the lower condition classes.

Appendix E – Vegetation Survey Data

Legend:

Site = name of locality of map project

Polygon = number you put on map

Name/Date = your name / day-month-year completed polygon survey

Photo roll/number = number of roll (on canister) and number of shot

Survey intensity

1 = walked or could see most of polygon (high confidence in survey data)

2 = walked or could see part of polygon interior (moderate confidence)

3 = walked perimeter or could see part of polygon interior (low confidence)

4 = photo interpretation or other remote survey

VEGETATION COVER

This is canopy cover, i.e. the <u>space between</u> leaves/branches is included in "cover". Each Life form category canopy cover must be 0-100%. Therefore, the sum of all life forms (layers) can exceed 100%. List most abundant species in each life form category; when trees are cored, note DBH, species, length of core, number of rings counted.

TOTAL VEGETATION COVER includes all vascular plants, mosses, lichens and foliose lichens (crustose lichens excluded they are considered rock); this <u>never</u> exceeds 100%.

SOIL SURFACE estimate to nearest % the following, the sum of the categories adds to 100% Rock outcrop = exposed bedrock including detached boulders over 1m across

Gravel/cobble = large fragments between sand and boulder

Bareground = exposed mineral soil

Mosses/lichens = nonvascular plant cover on soil

Litter = includes logs, branches, and basal area of plants

Describe in comments if there is wide variation in any category; note % standing water if it is persistent or characteristic of site.

LAND USE - put 0 (zero) if not applicable to site.

Logging

1 = unlogged, no evidence of past logging or occasional cut stumps not part of systematic harvest of trees, no or very little impact on stand composition

2 = selectively logged: frequent cut stumps but origin of dominant or co-dominant cohort appears to be natural disturbance

3 = heavy logging disturbance with natural regeneration: many cut stumps that predate the dominant or co-dominant cohort with no tree planting

4 = tree plantation: dominant cohort appears to be planted after clearcutting

Stand Age

- 1 = very young 0-40 yr
- 2 = young 40-90 yr
- 3 = mature 90-200 yr
- 4 = old-growth 200+ yr
- 5 = young with scattered old trees (2-10 old trees per acre)
- 6 = mature with scattered old trees

Agriculture

- 1 = active annual cropping
- 2 = active perennial herbaceous cropping
- 3 = active woody plant cultivation
- 4 = fallow, plowed no crops this yr
- 5 = Federal CRP
- 6 = other

Livestock

- 1 = active heavy grazing (most forage used to ground soil compaction or churning)
- 2 = active moderate grazing (25-75% forage used)
- 3 = active light grazing (lots of last years litter left)
- 4 = no current, heavy past grazing
- 5 = no current, light past grazing
- 6 = no obvious sign of grazing

Development

- 1 = actively used facilities
- 2 = roads
- 3 = established trails
- 4 = abandoned facilities
- 5 = none obvious
- 6 = multiple types (detail in comments)

Wildlife

- 1 = heavy ungulate use
- 2 = moderate ungulate use
- 3 = light to no ungulate use
- 4 = burrowing animals
- 5 = active beaver
- 6 = active porcupine
- 7 = other, list animal

Recreation Use Severity

- 1 = heavy use, abundant soil and vegetation displacement off trail/road
- 2 = moderate use, frequent soil and vegetation displacement off trail/road
- 3 = light use, little sign of activity off trail/road

Recreation Use Primary Type

1 = wheeled

2 = hoofed 3 = pedestrian 4 = combination of above 5 = other

Hydrology

1 = unaltered 2 = altered; dams, dikes, ditches, culverts, etc 3 = not assessed

Plant Association (PA) = list all PAs encountered in polygon survey, in comments list source of name if not on provided key.

Condition Rank of PA in key or estimate

% of Polygon = your estimate

Pattern = how PA is distributed in polygon

- 1 = matrix (most of polygon)
- 2 = large patches
- 3 = small patches
- 4 = clumped, clustered, contiguous
- 5 = scattered, more or less evenly repeating
- 6 = linear
- 7 = other

Exotic = primary species observed; secondary species observed.

Plot Number = number of any plots established for EO (element occurrence), or other more detail sheets within polygon.

Vegetation Polygon Data of the Project Area

Polygon Number Survey Intensity Observer Date Specific Location	10 2 DV 6/6/06 N	J			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	4 1 PIPO 0 1 0 1 ARTR2, PUTR2 1 1 4 PSSP6, BRTE 4 2 3 BASA3, PHLI 3 3				
Ferns Total	õ	Exotic	Species		
Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual	0 2 0 2	Primary E BRTE Secondar	Exotic ry Exotic		
Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	1 1 48 0 50 0 2 0 2 5 2 3 3 1	Noxious I	Exotic		
Plant Associations	i	Percent	Pattern	Rank	
1. ARTR2/PSSP6 (CRAWFC 2. 3. Notes:	ORD) Much of this polygo dead, PSSP6 & PF	100 0 on burned in 20 ILI abundant.	Matrix 05 - large area	as of PUT	2 0 0 FR2 are

Polygon Number Survey Intensity Observer Date Specific Location	100 1 HS, JR 6/26/06 along boundary of F	^o earrygin Sta	ate Park
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	5 1 0 1 0 3 PUTR2 3 2 4 PSSP6 4 3 3 3		
Forbs Annual Ferns Total	2 0		
Ferns Total Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology Plant Associations	0 0 4 2 3 1 10 10 10 0 79 0 0 0 6 0 3 3 3 1	Exoti Primary LIDA Second POBU Noxious BRTE	c Species Exotic ary Exotic s Exotic

Plant Associations	Percent	Pattern	
			Rank
1. PUTR2/PSSP6 (CRAWFORD)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	101 1 HS, JR 6/26/06 along boundary of F	Pearrygin Sta	ite Park
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial	5 1 0 1 0 4 PUTR2 4 1 4 PSSP6 4		
Graminoids Annual	3		
Dominant Forbs Forbs Perennial Forbs Annual	BASA3 2 2		
Ferns Total	0	Exoti	c Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 3 1 3 2 5 5 5 0 88 0 0 0 0 0 6 0 0 3 3 3 1	Primary BRTE Seconda POBU Noxious LIDA	Exotic ary Exotic Exotic
Plant Associations		Donoont	Dattan

Plant Associations	Percent	Pattern	
			Rank
1. PUTR2/PSSP6 (CRAWFORD)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer	102 1 PM			
Date Specific Location	6/7/06			
Specific Location	IN			
Total Vegetation	0			
Trees Total	0			
Dominant Trees				
emergent	0			
maincanopy	0			
subcanopy	0			
Shrubs Total	0			
Dominant Shrubs				
> 1.5' tall	0			
< 1.5' tall	0			
Graminoids Total	0			
Dominant Graminoids				
Graminoids Perennial	0			
Graminoids Annual	0			
Forbs Total	0			
Dominant Forbs				
Forbs Perennial	0			
Forbs Annual	0			
Ferns Total	0		-	
		Exoti	c Specie	S
Ferns Evergreen	0		•	
Ferns Deciduous	0	Primary	Exotic	
ExoticsTotal	0			
Exotics Perennial	0	Seconda	ary Exotic	
Exotics Annual	0			
Water		Noxious	Exotic	
Rock Outcrop	0			
Gravel	0			
Bare Ground	0			
Moss Lichen	0			
Litter	0			
Logging	0			
Stand Age	0			
Agriculture	1			
Livestock	3			
Development	2			
Wildlife	2			
Recreation Severity	3			
Recreation Type	4			
Hydrology	0			
Plant Associations	6	Percent	Pattern	Donk
1 agricultural field		100	Matrix	Nalik
7		100	IVIGUIA	
<i>2</i> .		0		
э.		0		

2. 3. Notes:

Active fields, alfalfa

Polygon Number Survey Intensity Observer Date Specific Location	103 2 DV 5/25/2006 SW 1/4		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Forbs Annual	5 1 PIPO, POTR5 0 1 0 4 PUTR2, ERHE2 4 3 5 5 PSSP6, BRTE 5 3 3 3 BASA3, PHLI 3 2 0		
	0	Exot	ic Species
Ferns Evergreen Ferns Deciduous Exotics Total Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 2 2 0 5 10 0 85 0 0 0 3 5 3 3 1	Primar LIDA (' Secon BRTE (Noxiou LIDA	y Exotic 1%) dary Exotic (3%) is Exotic
Plant Associations	;	Percent	Pattern

	1 01 00110		
			Rank
1. PUTR2/PSSP6 (CRAWFORD)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	105 1 HS, JR 6/27/06 E of firing range			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Forbs Total	5 4 PIPO 0 4 0 3 PUTR2 3 2 5 PSSP6 5 1 4 BASA3 4 3 0	Freedia	Graning	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 1 1 0 0 2 0 98 2 3 0 6 0 3 3 3 1	EXOTIC Primary E BRTE Secondar LABI Noxious I	Species ixotic ry Exotic Exotic	
Plant Associations	5	Percent	Pattern	Ran
		10-		

Fiant Associations	Percent	Pattern	
			Rank
1. PIPO/PUTR2/PSSP6 (LILLYBRIDGE)	100	Matrix	2
2.	0		0
3.	0		0
Notes: Some PIPO b	urned & dead.		

Polygon Number Survey Intensity Observer Date Specific Location	106 2 DV 10/12/06		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	5 1 PIPO 0 1 0 4 PUTR2, ERNI2 4 2 4 PSSP6, BRTE, POBU 4 2 3 BASA3 3		
Forbs Annual	2		
Ferns Total	0	F	0
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter	0 0 2 1 2 0 0 40 0 60	Primary E BRTE, PC Secondar LIDA Noxious I	Exotic DBU ry Exotic Exotic
Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 0 4 0 3 3 3 1		
Plant Associations	Per	rcent	Pattern

				Rank	
1.	PUTR2/PSSP6 (CRAWFORD)	70	Matrix		2
2.	former agricultural field	30	Large patch		1
3.		0			0
No	tes:				

Polygon Number Survey Intensity Observer Date Specific Location	106B 2 DV 10/12/06		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	5 1 POTR5 0 1 0 4 PUTR2, ERHE2, EF 2 4 4 PSSP6 4 2 3 BASA3 3 2	RMI	
rems total	0	Exc	tic Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 1 2 5 5 5 30 0 60 0 0 0 5 5 2 3 3 1	Prima BRTE Seco LIDA Noxid	ary Exotic E, POBU ndary Exotic Dus Exotic
Plant Associations		Percent	Pattern

	1 ci cent	1 atter n	
			Rank
1. PUTR2/PSSP6 (CRAWFORD)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	106C 1 DV 10/12/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	5 1 PIPO 0 1 0 4 PUTR2 4 1 4 PSSP6, POBU 4 1 3 BASA3 3			
Forbs Annual	2			
Ferns Total	0	F	0	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 0 2 0 0 40 0 60 0 0 5 5 5 3 3 3 1	Primary E POBU Secondar Noxious I	Exotic ry Exotic Exotic	
Plant Associations		Percent	Pattern	Daula
 PUTR2/PSSP6 (CRAWFC . . 	PRD)	100 0 0	Matrix	KAUK
Notes:	Pictures. Some larg	ge (6') PUTR2	(see photo).	

Pictures. Some large (6') PUTR2 (see photo).

Polygon Number Survey Intensity Observer Date Specific Location	106D 2 DV 10/12/06		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	5 1 PIPO 0 1 0 4 PUTR2, ERNI2 4 2 4 PSSP6, BRTE, POBU 4 2 3 BASA3 3		
Forbs Annual	2		
Ferns Total	0	– . (* .	•
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 1 2 0 0 40 0 60 0 0 0 0 0 40 0 60 0 0 3 3 3 1	Exotic Primary E BRTE, PC Secondar LIDA Noxious I	Exotic DBU ry Exotic Exotic
Plant Associations	Per	rcent	Pattern

			Rank	
 PUTR2/PSSP6 (CRAWFORD) 	70	Matrix		2
2. former agricultural field	30	Large patch		1
3.	0			0
Notes:				

Polygon Number Survey Intensity Observer Date Specific Location	107 2 DV 5/28/2006 N unit SE of firing	range.		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Ferns Total	5 1 PIPO 0 1 0 3 PUTR2, ARTR2 3 1 4 PSSP6, BRTE 4 3 3 HEUN, PHLI 3 2 0			
		Exotic	: Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 3 2 3 10 0 80 0 0 0 0 3 5 2 3 3 1	Primary I BRTE (29 Seconda Noxious LIDA (1%	Exotic %) ry Exotic Exotic)	
Plant Associations	;	Percent	Pattern	Donk
 PUTR2/PSSP6 (CRAWFC . . 	DRD)	100 0 0	Matrix	2 0 0
Notes:	LIDA is widesprea	d in this polygo	n with perhaps	adjacent po

LIDA is widespread in this polygon with perhaps adjacent polygons 55, 56, 30 are all fields.

Polygon Number Survey Intensity Observer Date Specific Location	108 2 DV 5/29/2006 SE			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Forbs Annual	5 1 PIPO 0 1 0 3 PUTR2, ERHE2 3 1 4 PSSP6 4 2 4 BASA3, COPA3 4 2 0			
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 1 0 1 0 0 25 0 75 0 3 0 2 5 2 3 3 1	Exotic Primary E BRTE Secondar Noxious I	Species Exotic Ty Exotic Exotic	
Plant Associations		Percent	Pattern	Rank
 PUTR2/PSSP6 (CRAWFC . . 	RD)	100 0 0	Matrix	

Notes: Good condition.

Polygon Number Survey Intensity Observer Date Specific Location	109 2 DV 5/29/2006 SE			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Ferns Total	5 5 PSME 1 5 3 4 SYAL 4 2 4 POPR, BRTE 4 2 3 HEUN, COPA3 3 3 0	Exotic Primary B POPR	Species ≣xotic	
Exotics Perennial Exotics Annual	4	Seconda BRTE	ry Exotic	
Water	2	Noxious	Exotic	
Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity	0 0 15 0 85 0 2 0 2 5 2 3			
Recreation Type Hydrology	3 1			
Plant Associations	5	Percent	Pattern	
				Rank
1. PSME/SYAL (LILLYBRID)	GE)	100	Matrix	
2. 3.		0		
Notes:	This is a small for	ested pocket su	rrounded by s	hrub-step

This is a small forested pocket surrounded by shrub-steppe. The presence of Asperugo procumbens, Poa pratensis, and Bromus tectorum indicates how cattle have utilized the site for shade.

Polygon Number Survey Intensity Observer Date Specific Location	11 2 DV 6/27/06 N			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Ferns Total	4 2 PIPO 0 2 0 1 CEVE 0 1 2 CARU 2 2 4 BASA3, EPAN2, G. 4 0 0	ADI2 Exotic	Species	
Ferns Deciduous	0	Primary E	xotic	
Exotics Perennial	0	Secondar	y Exotic	
Exotics Annual Water	1	Novious	Exotic	
Rock Outcrop	0	NOXIOUSI		
Gravel	0			
Bare Ground Moss Lichen	50			
Litter	50			
Logging	2			
Stand Age	2			
Agriculture Livestock	0			
Development	0			
Wildlife	3			
Recreation Severity	3			
Recreation Type	3 1			
Plant Associations		Doncont	Dattown	
	,	rercent	rattern	Rank
 PIPO/CARU (KAGAN) . . 		100 0 0	Matrix	
Notes:	Polygon burned, m	ost trees killed.		

Polygon Number Survey Intensity Observer Date Specific Location Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Ferns Total	110 2 DV 6/4/06 S. Incorporate P111 unstable gravel slop 5 1 PSME 0 1 0 4 PUTR2 3 4 4 PSSP6, BRTE, POE 4 2 3 BASA3 3 2 0	∣ into P110, b pe. 3U	ut split 110 into	o two based on steep,
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 0 2 5 5 10 0 80 0 3 0 3 0 2 0 1	Exotic Primary BRTE Seconda POBU Noxious 5	C Species Exotic rry Exotic Exotic	
Plant Associations	;]	Percent	Pattern	Rank

	1 cr cent	1 atter fi	
			Rank
1. PUTR2/PSSP6 (CRAWFORD)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	112 2 DV 6/27/06 N		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs	6 0 0 0 0 6 RONU, SYAL 6 0 0 0		
Forbs Perennial	0		
Forbs Annual Ferns Total	0		
	0	Exotic	Snecies
Ferns Evergreen	0		Opecies
Ferns Deciduous	0	Primary E	xotic
ExoticsTotal Exotics Perennial	0	Secondar	w Exotic
Exotics Annual	0	Gecondal	y Exolic
Water		Noxious E	Exotic
Rock Outcrop	0		
Gravel Bare Ground	0		
Moss Lichen	0		
Litter	100		
Logging	0		
Stand Age	0 6 former field		
Livestock	4		
Development	4		
Wildlife	7, birds		
Recreation Severity	0		
Hydrology	1		
Plant Associations		Percent	Pattern

Fiant Associations	• Percent	Pattern	
			Rank
1. RONU thicket (PBI)	100	Matrix	1
2.	0		0
3.	0		0
Notes:	This is part of a former ag field.		

Polygon Number Survey Intensity Observer Date Specific Location	113 2 DV 5/29/2006 M			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	4 1 PIPO 0 1 0 3 PUTR2 3 1 4 PSSP6, BRTE 4 2 2 BASA3, PHLI 2			
Fords Annual Ferns Total	2			
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 1 2 5 5 40 0 50 0 0 0 0 0 3 5 2 3 3 1	Exotic Primary E BRTE Secondar Noxious I LIDA	Species Exotic Ty Exotic Exotic	
Plant Associations		Percent	Pattern	
 PUTR2/PSSP6 (CRAWFC . . Notes: 	PRD) Bitterbrush stand.	100 0 0	Matrix	Rank

Polygon Number Survey Intensity Observer Date Specific Location	114 1 HS, DV, JR 6/27/06		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs	6 4 POTR15, POTR5 3 2 5 ALIN2, COST4, SYAL 5 2 3 3 0 3		
Forbs Perennial Forbs Annual	3		
Ferns Total	0		
		Exotic	Species
Ferns Evergreen	0	Brimon, E	votio
FronticsTotal	3	Primary E	xouc
Exotics Perennial	3	Secondar	v Exotic
Exotics Annual	0		,
Water	-	Noxious E	Exotic
Rock Outcrop	0		
Gravel	0		
Bare Ground	0		
Moss Lichen	0		
Litter	100		
Logging	2		
Stand Age	3		
Livestock	0		
Development Wildlife	0 3		
Recreation Severity Recreation Type Hydrology	3 3 1		
Plant Associations	Ре	rcent	Pattern
]

-		1 01 00 110			
				Rank	
1.	ALIN2-COST4-SYAL (KOVALCHIK)	70	Matrix		2
2.	POTR5/SYAL (KOVALCHIK)	30	Large patch		2
3.		0			0
No	otes:				

Polygon Number Survey Intensity Observer Date Specific Location	114B 1 HS, JR 6/27/06 SE of wildlife office		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs	6 5 POTR5 2 5 2 6 SYAL 6 2 2 2 2 2 2 2 2 2 2		
Forbs Perennial	2		
Forbs Annual	1		
Ferns Total	0	Evetie	Creation
	2		species
Ferns Evergreen	0	D.:	
Ferns Deciduous	0	Primary E	EXOTIC
Exotics lotal	1	<u> </u>	
Exotics Perennial	1	Seconda	ry Exotic
Exotics Annual	0	Neulaura	- 4'-
Water Book Outeren	0	NOXIOUS	EXOTIC
Crowel	0		
Baro Ground	0		
Maga Liaban	0		
	100		
	100		
Stand Ago	3		
Agriculturo	0		
Livestock	0		
Dovelopment	0		
Wildlife	3		
Recreation Severity	3		
Recreation Type	3		
Hydrology	1		
i i yai ology			
Plant Associations	Pe	rcent	Pattern

	1 ci cent	1 40001 11	
			Rank
1. POTR5/SYAL (KOVALCHIK)	100	Matrix	3
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	115 2 DV 6/27/06		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	6 4 PIPO 1 4 0 5 SYAL 5 2 2 POPR 2 1 2 ERSU 2 1		
Ferns Total	0	Evotio	Species
	0	EXOUC	species
Ferns Deciduous	0	Primary B	Exotic
ExoticsTotal	0	, , .	
Exotics Perennial	0	Seconda	ry Exotic
Exotics Annual	0	Novious	Exotic
Rock Outcrop	0	NOXIOUS	LXUIC
Gravel	0		
Bare Ground	0		
Moss Lichen	0		
Litter	100		
Logging	2		
Stand Age	2		
Agriculture	0		
Livestock	2		
Development	0		
Wildlife	3		
Recreation Severity	ა ი		
Recreation Type	ა 1		
nyarology	I		
Plant Associations		Percent	Pattern

	rercent	1 attern	
			Rank
1. PIPO/SYAL (KAGAN)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	116A 1 DV 6/23/06 N			
Total Vegetation	4			
Trees Total	4			
Dominant Trees	PIPO			
emergent	0			
maincanopy	4			
subcanopy	0			
Shrubs Total	0			
Dominant Shrubs				
> 1.5' tall	0			
< 1.5' tall	0			
Graminoids Total	2			
Dominant Graminoids	POBU			
Graminoids Perennial	1			
Graminoids Annual	2			
Fords Total				
Dominant Fords	DASAS			
Forbs Appual	2			
Forns Total	0			
	0	Exatio	Species	
		EXOLIC	species	
Ferns Evergreen	0		.	
Ferns Deciduous	0	Primary E	Exotic	
Exotics lotal	1	POBU		
Exotics Perennial	0	Seconda	ry Exotic	
Exotics Annual	1	Nevieve		
Water Book Outorop	0	NOXIOUS	EXOLIC	
Gravel	0			
Bare Ground	0			
Moss Lichen				
l itter	96			
	3			
Stand Age	2			
Agriculture	0			
Livestock	6			
Development	2			
Wildlife	3			
Recreation Severity	3			
Recreation Type	3			
Hydrology	1			
Plant Associations		Percent	Pattern	
				Rank
1. PIPO/PSSP6 (LILLYBRID	GE)	100	Matrix	
2.		0		
3.		0		
Notes:	Rather doghaired I	PIPO with almo	st no understo	ry plants.

Polygon Number Survey Intensity Observer Date Specific Location	116B 1 DV 6/23/06 N			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Forbs Annual	4 4 PIPO 0 4 0 3 PUTR2 3 0 2 STOC2, POBU, F 2 2 2 LUSE4, VETH 2 1 0	BRTE	Species	S
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 1 2 0 15 25 0 60 2 2 0 3 1 3 1 3 1 3	Primary BRTE Seconda POBU Noxious LIDA	Exotic Iry Exotic Exotic	
Plant Associations	5	Percent	Pattern	Donk
 PIPO/PUTR2/PSSP6 (LIL 3. 	LYBRIDGE)	100 0 0	Matrix	канк 1 0 0
Notes:	Exotics (perennia	al): LIDA; (annua	I): VETH, PO	BU, BRTE. S

Exotics (perennial): LIDA; (annual): VETH, POBU, BRTE. See map -116B os a campground.
Polygon Number Survey Intensity Observer Date Specific Location	116C 2 DV 6/23/06 N		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	5 4 PIPO 0 4 0 3 SYAL, PUTR2 3 1 3 CARU 3 0 4 BASA3 4 0		
Ferns Total	0	Exotic	: Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 0 0 0 20 0 80 3 2 2 0 3 2 2 3 3 3 1	Primary I Seconda Noxious	Exotic ry Exotic Exotic
Plant Associations		Percent	Pattern

i lant Associations	rercent	rattern	
			Rank
1. PIPO/SYAL (KAGAN)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	116D 2 DV 6/23/06 N			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Eorbs Annual	5 5 PIPO 0 5 0 4 SYAL 4 3 2 FEID, CARO5 2 0 2 PECO6, SIME 2 0			
Ferns Total	0	_	_	
		Exotic	: Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal	0 0 0	Primary	Exotic	
Exotics Perennial	0	Seconda	ry Exotic	
Water Rock Outcrop Gravel	0	Noxious	Exotic	
Bare Ground Moss Lichen Litter	2 0 98 3			
Stand Age Agriculture Livestock	2 0 3			
Development Wildlife Recreation Severity Recreation Type	0 3 3 3			
Hydrology	1			
Plant Associations		Percent	Pattern	Ra

	rereent	1 atter n	
			Rank
1. PIPO/SYAL (KAGAN)	100	Matrix	1
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	116E 2 DV 10/12/06				
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Forbs Annual	6 5 PSME, PIPO 1 5 2 3 SYAL, MAAQ2 3 1 2 CARU 2 0 2 SMST 2 1 0 0	E . (in			
--	0	Exotic	Species		
Ferns Evergreen	0	Primary E	xotic		
ExoticsTotal	0				
Exotics Perennial	0	Secondar	y Exotic		
Exotics Annual	0				
Water	•	Noxious I	Exotic		
Rock Outcrop	0				
Baro Ground	0				
Moss Lichen	0				
Litter	100				
Logging	2				
Stand Age	2				
Agriculture	0				
Livestock	4				
Development	5				
Wildlife	3				
Recreation Severity	3				
Recreation Type	3				
Hydrology	1				
Plant Associations		Percent	Pattern	Donk	
		100	Motrix	IVAILK	2
1. POIVIE/OTAL (LILLIBRIDU))	100	Wallix		2
2. 2		0			0
J.	Donkod "0" has			od fire -	U
NOLES.	Rankeu z pecaus	se roivie are de	ense, suppress	eu, me-p	101

Ranked "2" because PSME are dense, suppressed, fire-prone.

Polygon Number Survey Intensity Observer Date Specific Location	116F 1 DV 10/12/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Forbs Annual	5 5 9IPO 0 5 2 2 SPBE2 0 2 1 FEID 1 0 1 BASA3 1 0			
	C C	Exotic	Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	Primary E LIDA Secondar Noxious E	xotic y Exotic Exotic	
Plant Associations	i	Percent	Pattern	Rank
1. PIPO/CARU-PSSP6 (LILL 2.	YBRIDGE)	100 0	Matrix	IXAIIK

3. Notes: PIPO are small diameter & densely stocked.

Polygon Number Survey Intensity Observer Date Specific Location	117 1 DV 6/23/06 N			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	6 4 PIPO, POTR5 0 4 2 5 SYAL 5 2 3 ELCI2 3 0 2 GABO2 2 0			
Ferns Total	0	E th	0	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 0 0 0 0 2 0 98 2 2 0 3 3 3 3 3 1	Exotic Primary Seconda Noxious	c Species Exotic rry Exotic Exotic	
Plant Associations		Percent	Pattern	Ra

				Rank
1.	PIPO/SYAL (KAGAN)	80	Matrix	2
2.	POTR5/SYAL (KOVALCHIK)	20	Clumped,	2
3.		0		C
No	tes:			

Polygon Number Survey Intensity Observer Date Specific Location	118 1 HS, JR 6/27/06 N of wildlife office		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids	6 5 POTR5 0 5 1 5 COST4, SYAL 5 1 4		
Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	4 0 3 CIAR4 3 1		
Ferns Total Ferns Evergreen	0	Exot	ic Species
ExoticsTotal Exotics Perennial Exotics Annual Water	0 5 5 0	CIAR4 Second PHAR3 Noxiou	y Exotic dary Exotic is Exotic
Rock Outcrop Gravel Bare Ground Moss Lichen Litter	0 0 0 100		
Logging Stand Age Agriculture Livestock Development Wildlife	0 3 0 0 0 3		
Recreation Severity Recreation Type Hydrology Plant Associations	3 3 1	Percent	Pattern

	1 01 00 110		
			Rank
1. POTR5/COST4 (KOVALCHIK)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number	119			
Observer Date Specific Location	HS 11/21/06			
opecine Eocation				
Total Vegetation Trees Total	0 0			
Dominant Trees				
emergent	0			
maincanopy	0			
subcanopy	0			
Shrubs Total	0			
Dominant Shrubs				
> 1.5' tall	0			
< 1.5' tall	0			
Graminoids Total	0			
Graminoide Poronnial	0			
Graminoids Annual	0			
Forbs Total	0			
Dominant Forbs	0			
Forbs Perennial	0			
Forbs Annual	0			
Ferns Total	0			
		Exotic	: Species	
Forns Evergreen	0		openeo	
Ferns Deciduous	0	Primary	Exotic	
ExoticsTotal	0	, intersection of the section of the		
Exotics Perennial	0	Seconda	rv Exotic	
Exotics Annual	0		•	
Water	0	Noxious	Exotic	
Rock Outcrop	0			
Gravel	0			
Bare Ground	0			
Moss Lichen	0			
Litter	0			
Logging				
Stand Age				
Agriculture				
Development				
Wildlife				
Recreation Severity				
Recreation Type				
Hydrology				
Plant Association	s	Percent	Pattern	
	-	i ci cent]	R
1. Developed		100	Matrix	
· ·				

Plant Associations	Percent	Pattern	
			Rank
1. Developed	100	Matrix	1
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	12 2 DV 6/6/06 N			
Total Vegetation	4			
Trees Total	1			
Dominant Trees	0			
emergent	0			
subcanopy	0			
Shrubs Total	2			
Dominant Shrubs	ARTR2			
> 1.5' tall	0			
< 1.5' tall	2			
Graminoids Total	4			
Dominant Graminoids	PSSP6, BRTE, POBU			
Graminoids Perennial	4			
Graminoids Annual	2			
Forbs Total	3			
Dominant Forbs	HEUN, PHLI			
Forbs Perennial	2			
Fords Annual Fords Total	0			
	0	Evotio	Species	
		EXOLIC	species	
Ferns Evergreen	0			
Ferns Deciduous	0		XOTIC	
EXOLICS I OLAI	2	LIDA		
Exotics Annual	2	BRTE	y Exolic	
Water	2	Novious	- xotic	
Rock Outcrop	1	noxiouo i		
Gravel	1			
Bare Ground	48			
Moss Lichen	0			
Litter	50			
Logging	3			
Stand Age	2			
Agriculture	0			
Dovelopment	2			
Wildlife	3			
Recreation Severity	3			
Recreation Type	3			
Hydrology	1			
Plant Associations	Pe	rcent	Pattern	
				Rank
1. ARTR2/PSSP6 (CRAWFC)RD)	100	Matrix	
2.		0		
3.		0		
Notes:	Shrub-steppe, burned	in 2005 fire	, PUTR2 nearl	y wiped

Shrub-steppe, burned in 2005 fire, PUTR2 nearly wiped out.

Polygon Number Survey Intensity Observer Date Specific Location	120 1 DV 6/4/06 S		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Forbs Annual	5 4 PSME, PIPO 0 4 0 3 SYAL, PUTR2 3 2 4 PSSP6, BRTE, POBU 4 2 3 BASA3 3 2 0		
rems total	0	Exotic	Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 0 2 5 5 20 2 68 0 3 0 2 0 0 1	Primary B BRTE Seconda POBU Noxious	Exotic ry Exotic Exotic
Plant Associations	Pe	rcent	Pattern

	rercent	rattern	
			Rank
1. PSME/SYAL/PSSP6 (LILLYBRIDGE)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	121 1 HS 6/21/06 SE section of surve	ey area			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Forbs Annual	6 5 PIPO, PSME 2 4 3 3 PUTR2, SYAL 2 2 4 PSSP6, FEID, CAF 4 1 4 LUPO2, BASA3 4 2 0	۶U			
	0	Exe	otic	Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 1 1 1 1 0 0 2 1 97 1 5 0 5 0 3, 7 (birds) 3 1	Prim BRT Secc Noxi	ary E E ondar ous I	xotic y Exotic Exotic	
Plant Associations		Percent		Pattern	Rank
 PSME/CARU-PSSP6 (LILI PSME/SYAL/PSSP6 (LILL 	LYBRIDGE) YBRIDGE)		90 10	Matrix Small patch	1.unn

3. Notes: Some doghair PSME in polygon.

Polygon Number Survey Intensity Observer Date Specific Location	123 1 HS 6/21/06 SE section of surve	ey area	
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Eorbe Annual	6 5 PSME 1 5 3 4 SYAL, MAAQ2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		
Ferns Total	0		
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 1 0 1 1 1 1 2 1 95 1 2 0 3 0 3 3 1	Exotion Primary BRTE Seconda Noxious	C Species Exotic ary Exotic Exotic
Plant Associations		Percent	Pattern

				Rank	
1.	PSME/SYAL (LILLYBRIDGE)	90	Matrix		2
2.	PSME/SYAL/PSSP6 (LILLYBRIDGE)	10	Small patch		2
3.		0			С
No	tes:				

Polygon Number Survey Intensity Observer Date Specific Location	124 1 HS, JR 6/27/06 off road, SW of office		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	6 5 POTR5 0 5 2 5 SYAL 5 2 2 2 2 2 3 3 3 2		
Ferns Total	0	Exotic	Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Primary E POPR Secondar Noxious E	y Exotic Exotic
Plant Associations	Ре	rcent	Pattern

	rereent	1 accel ii	
			Rank
1. POTR5/SYAL (KOVALCHIK)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	125 1 DV 6/5/06 S			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Forbs Annual	6 5 POTR5 0 5 4 4 SYAL 4 3 4 POPR, ELCI2 4 2 2			
	0	Exotic	: Species	
rems Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 3 3 2 0 0 2 0 98 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 1	Primary I POPR Seconda POBU Noxious	Exotic ry Exotic Exotic	
Plant Associations	5	Percent	Pattern	Rank
 POTR5/SYAL (KOVALCH 3. 	IIK)	100 0 0	Matrix	

Notes:

Center is a vernal pond with water this year.

Polygon Number Survey Intensity Observer Date Specific Location	126 1 DV 6/5/06 S			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	6 4 PIPO 1 4 3 3 SYAL, PUTR2 3 2 4 FEID, POBU 4 2 3 LUSU5, HEUN 3 1			
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock	0 0 2 0 2 0 0 10 0 90 2 2 0 3	Exotic Primary POBU Seconda Noxious	C Species Exotic ary Exotic Exotic	ì
Development Wildlife Recreation Severity Recreation Type Hydrology Plant Associations	3 0 3 3 3 1	Percent	Pattern	Ra

	rereent	1 attern	
			Rank
1. PIPO/SYAL (KAGAN)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	127 1 DV 5/29/2006 SW			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	5 2 PIPO 0 2 1 2 SYAL 2 2 4 POPR, BRTE 4 3 3 3			
Ferns Total	0	Evotio	Creater	
Former Freemannen	0	EXOUC	Species	
Ferns Evergreen Ferns Deciduous Exotics Total Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 4 4 3 0 0 0 10 0 90 0 2 5 2 3 3 1	Primary E POPR Secondar BRTE Noxious I	ixotic y Exotic Exotic	
Plant Associations		Percent	Pattern	D only
1. disturbed wetland		100	Matrix	Nalik

 disturbed wetland 	100 Matrix	3
2.	0	0
3.	0	0
Notes:	Vernal wetland - depressions, ponds where water to favored gathering place for cattle.	able is high

Polygon Number Survey Intensity Observer Date Specific Location	128 1 DV 6/5/06 S		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	6 5 PIPO 2 5 2 4 SYAL, MAAQ2 4 2 3 CARU 3 0 2 2		
Ferns Total	0	Exoti	c Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0	Primary POPR Seconda Noxious	Exotic Exotic Exotic
Plant Associations		Percent	Pattern

			Rank
1. PIPO/SYAL (KAGAN)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	129 1 DV 10/12/06			
Total Vegetation Trees Total Dominant Trees emergent	6 4 POTR5 0			
maincanopy	4			
Shrubs Total	5			
Dominant Shrubs	SYAL			
> 1.5' tall	5			
< 1.5' tall	2			
Graminoids Total	2			
Graminoids Perennial	2			
Graminoids Annual	0			
Forbs Total	2			
Dominant Forbs	SMST, GABO2			
Forbs Perennial	2			
Forbs Annual	0			
Ferns Total	0	Evetie	0	
		EXOU	: Species	5
Ferns Evergreen	0	Duine am c		
Ferns Deciduous	0	Primary	EXOLIC	
Exotics Perennial	0	Seconda	ry Exotic	
Exotics Annual	0	eeeenaa	J _xouo	
Water		Noxious	Exotic	
Rock Outcrop	0			
Gravel	0			
Bare Ground	0			
Moss Licnen	U 100			
	0			
Stand Age	2			
Agriculture	0			
Livestock	4			
Development	0			
Wildlife	3			
Recreation Severity	3			
Hydrology	1			
nyalology				
Plant Associations	;	Percent	Pattern	
				Rank
1. POTR5/SYAL (KOVALCH	IK)	100	Matrix	
2.		0		
3.		0		
Notes:	Small aspen grove	appears stress	sed - lack of ⊢	120.

Small aspen grove appears stressed - lack of H2O.

Polygon Number Survey Intensity Observer Date Specific Location	130 2 DV 6/27/06			
Total Vegetation Trees Total	5 0			
emergent	0			
maincanopy	Õ			
subcanopy	0			
Shrubs Total	3			
Dominant Shrubs	PUTR2, SYAL, ERHE	2		
> 1.5' tall	3			
Graminoids Total	2			
Dominant Graminoids	STCO4 POBU			
Graminoids Perennial	3			
Graminoids Annual	2			
Forbs Total	4			
Dominant Forbs	ACMI2, HEUN, DERI			
Forbs Perennial	3			
Forbs Annual	3			
Ferns Total	0	F	0	
		EXOTIC	species	
Ferns Evergreen	0		.	
Ferns Deciduous	0	Primary E	Exotic	
EXOTICS OTAL	3	DERI	n Evotio	
Exotics Annual	3	POBLI		
Water	0	Noxious	Exotic	
Rock Outcrop	0			
Gravel	0			
Bare Ground	30			
Moss Lichen	0			
Litter	70			
Logging Stand Age	0			
	0			
Livestock	1			
Development	5			
Wildlife	3			
Recreation Severity	3			
Recreation Type	3			
Hydrology	1			
Plant Associations	P	ercent	Pattern	Rank
1. PUTR2/STOC2 (CRAW/FC)RD)	100	Matrix	ixaniX
2.	,	0		
3		0		

Notes: Exotics: 10% DERI, 1% POBU?

Polygon Number Survey Intensity Observer Date Specific Location	131 2 DV 6/5/06 S			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	5 1 PIPO 0 1 0 3 SYAL, PUTR2, ERHE2 3 3 4 PSSP6, BRTE, POBU 3 4 LUSE4, PHLI, POMA9 3	:		
Forbs Annual	3			
Ferns Total	0	Evotio	Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen	0 0 3 0 3 0 3 0 0 30 0	Primary E BRTE Secondar POBU Noxious I	species Exotic Ty Exotic Exotic	
Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	70 0 0 2 0 2 0 0 2 0 0 1			
Plant Associations	Per	cent	Pattern	P
				Ka

Fiant Associations	Percent	Pattern	
			Rank
1. PUTR2/PSSP6 (CRAWFORD)	100	Matrix	1
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	131B 2 DV 10/12/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total	5 2 PIPO 0 2 0 3 PUTR2, SYAL, ERHI 3 2 4 STOC2, PSSP6, BR ⁻ 4 3 2	E2 TE		
Dominant Forbs	ACMI2, HEUN, CEDI	I3, SIAL2		
Forbs Perennial	2			
Forbs Annual	2			
Ferns Total	0	E scatio	0	
F F	•	EXOUC	; species	j
Ferns Evergreen	0	Brimony	Evotio	
Ferns Deciduous	0		EXOLIC	
Exolics I oldi	3	CEDIS Secondo	ny Exotio	
Exolics Pereinilai	3			
Water	5	Novious	ALZ Exotic	
Rock Outcrop	0	NOXIOUS	EXOLIC	
Gravel	0			
Bare Ground	10			
Moss Lichen	0			
Litter	90			
Logging	0			
Stand Age	2			
Agriculture	0			
Livestock	4			
Development	0			
Wildlife	3			
Recreation Severity	3			
Recreation Type	3			
Hydrology	1			
Plant Associations	6 P	ercent	Pattern	Rank
	חסו	100	Matrix	2
1. FUIRZ/F33P0 (URAWFU		100	ividuix	2
2. 2		U		0
J. Notos:	Some vernal moietur	U a tharafara t	favored by cot	U tle higher wood ratio
110163.	Some vernai moistur		avoicu by cal	ic, nigher weed rallo

than average.

Polygon Number Survey Intensity Observer Date Specific Location	132 2 DV 5/29/2006			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual	4 1 PIPO 0 1 0 4 PUTR2, ERHE2 4 3 4 FEID, PSSP6, POE 4 3 4 BASA3, COPA3 4 2 0	3U		
	0	Exotic	: Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 0 2 3 3 2 4 0 70 0 0 0 0 3 3 2 2 3 3 1	Primary B POBU Seconda Noxious	Exotic ry Exotic Exotic	
Plant Associations		Percent	Pattern	Ra
1. PUTR2/FEID (CRAWFOR	D)	100	Matrix	

	1 CI CCIIC	1 atter fi	
			Rank
1. PUTR2/FEID (CRAWFORD)	100	Matrix	
2.	0		
3.	0		
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	133 1 DV 10/12/06			
Total Vegetation	5			
Trees Total	0			
Dominant Trees	0			
maincanony	0			
subcanopy	0			
Shrubs Total	2			
Dominant Shrubs	- PUTR2			
> 1.5' tall	2			
< 1.5' tall	0			
Graminoids Total	4			
Dominant Graminoids	AGCR, AGRE2, ELCI	2		
Graminoids Perennial	4			
Graminoids Annual	0			
Forbs Total	2			
Dominant Forbs	SIAL2, CEDI3			
Forbs Appual	0			
Fords Annual Fords Total	2			
	0	Evotio	Spaaiaa	
	•	EXOLIC	species	
Ferns Evergreen	0	D.:		
Ferns Deciduous	0			
Exolics Perennial	С И	AGREZ, P		
Exotics Annual	+ 3			
Water	0		Fxotic	
Rock Outcrop	0	Noxiousi		
Gravel	0			
Bare Ground	25			
Moss Lichen	0			
Litter	75			
Logging	0			
Stand Age	0			
Agriculture	0			
LIVESTOCK	1			
Wildlife	2			
Recreation Severity	3			
Recreation Type	3			
Hydrology	1			
,,				
Plant Associations	e Pe	ercent	Pattern	
				Rank
1. former agricultural field		100	Matrix	
2.		0		
3.		0		
Notes:	Highly disturbed - hea	vily overgra	zed. Dominate	d by nor

Highly disturbed - heavily overgrazed. Dominated by non-native species, esp. AGRE. Alkaline vernal swale overgrazed.

Polygon Number Survey Intensity Observer Date Specific Location	135 1 DV 6/5/06 S			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Forbs Total	6 4 PIPO, POTR5 0 4 2 5 SYAL 5 3 2 POPR 2 0 2 2 2 0			
	0	Exotic	Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 2 0 0 0 0 1 0 99 2 2 0 2 0 2 0 2 0 2 0 1 0 2 1 0 99 2 2 0 1 0 99 2 2 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	Primary E POPR Secondar Noxious	zotic ry Exotic Exotic	
Plant Associations		Percent	Pattern	Rank
 PIPO/SYAL (KAGAN) 3. 		100 0 0	Matrix	

Notes: Mixed PIPO/POTR stand.

Polygon Number Survey Intensity Observer Date Specific Location	136 1 DV 6/5/06 S			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	6 2 PIPO 1 2 0 2 PUTR2 2 0 6 ELCI2, POPR, BRTE 5 3 2 ACMI2 2			
Forbs Annual Ferns Total	1 0			
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 3 3 3 0 0 2 0 98 0 2 0 3 0 3 0 1 Ba	Exotic Primary E POPR Secondar BRTE Noxious E	Species xotic y Exotic Exotic	
Plant Associations	Pe	ercent	Pattern	Rank
 disturbed wetland a 		100 0	Matrix	

		Панк	
1. disturbed wetland	100	Matrix	1
2.	0		0
3.	0		0
Notes:	This polygon has a small 20x30' of water in wet cycles, today only	basin that would hold up 1".	to 8' deep

Polygon Number Survey Intensity Observer Date Specific Location	138 1 DV 6/5/06 S			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	6 4 PIPO, POTR5 1 4 2 4 SYAL 4 2 4 PSSP6 4 0 2 LIRU4, BASA3 2 0			
Ferns Total	0	Exotic	Spacias	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 0 0 0 0 0 0 0 0 0 0 0 0	EXOTIC Primary B Seconda Noxious	Species Exotic ry Exotic Exotic	
Plant Associations		Percent	Pattern	Rai

Fiant Associations	rercent	rattern	
			Rank
1. PIPO/SYAL (KAGAN)	100	Matrix	3
2.	0		C
3.	0		C
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	139 2 DV 6/4/06 S. 133 is basically	a former field -	boundary altered	l. (See map.)
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	5 3 PIPO 0 3 1 3 PUTR2, SYAL 3 2 4 FEID, POBU 4 2 3 BASA3, PHLI 3 1			
Ferns Total	0	Evetie	0	
Ferns Evergreen Ferns Deciduous Exotics Total Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 0 2 0 0 0 0 0 10 0 90 2 2 0 2 2 0 2 3 2 3 3 1	EXOTIC Primary E POBU Secondar Noxious I	Exotic Try Exotic Exotic Exotic	
Plant Associations		Percent	Pattern	N 1
		100	Matrix	ank 2
2.		0	Maula	2
3.		ů 0		0 0
Notes:	"Wetland" is currer	ntly an over-gra	zed meadow - pi	c available.

"Wetland" is currently an over-grazed meadow - pic available. Would be a vernal pond some years.

Polygon Number Survey Intensity Observer Date Specific Location	140 2 DV 6/5/06 S			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Forbs Annual Ferns Total	4 2 PIPO 0 2 0 4 PUTR2 4 2 4 PSSP6, FEID, POI 4 3 BASA3, LOAM, PH 3 2 0	BU, BRTE I LI		
		Exotic	Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 0 2 3 2 30 0 65 0 0 0 2 3 2 3 3 1	Primary E POBU Secondar BRTE Noxious	Exotic ry Exotic Exotic	
Plant Associations	i	Percent	Pattern	Ra
1. PUTR2/FEID (CRAWFOR	D)	100	Matrix	

	rercent	rattern	Rank
 PUTR2/FEID (CRAWFORD) . . 	100 0 0	Matrix	Runx
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	140B 1 DV 10/12/06			
Total Vegetation Trees Total Dominant Trees	5 0			
emergent	0			
maincanopy	0			
subcanopy	0			
Shrubs Total	2			
Dominant Shrubs	SYAL, PUTR2			
	2			
Graminoids Total	4			
Dominant Graminoids	FI CI2 BRIN2 BRTE			
Graminoids Perennial	3			
Graminoids Annual	4			
Forbs Total	4			
Dominant Forbs	CADR, ASCA6, CEDIS	3, SIAL2		
Forbs Perennial	3			
Fords Annual	4			
Ferris Total	0	Evotio	Species	
	•	EXOLIC	species	
Ferns Evergreen	0	Drimon / E	votio	
Ferns Deciduous	0		xouc	
Exotics Perennial	3	Secondar	v Exotic	
Exotics Annual	4	CADR	J Exette	
Water		Noxious I	Exotic	
Rock Outcrop	0			
Gravel	0			
Bare Ground	20			
Moss Lichen	0			
	0			
Stand Age	0			
Agriculture	6			
Livestock	4			
Development	2			
Wildlife	3			
Recreation Severity	3			
Hydrology	3			
nyarology	1			
Plant Associations	Pe	rcent	Pattern	Donk
1 former agricultural field		100	Matrix	malik
2.		0		
3.		0		
Notes:	Highly disturbed; non-	native sp. de	ominate.	

Polygon Number Survey Intensity Observer Date Specific Location	141 1 PM 5/29/2006 C NE				
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	6 4 POTR15, ALIN2, PSME, 1 3 2 5 COST4, RIHU, SYAL, RIL 4 4 2 CAUT 2 0 3 EQAR, SMST, SMRA, CL 3 0	PIPO _A AC			
Ferns Total	1	voti	c Snaciae		
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 1 0 0 0 0 1 1 1 97 0 3 0 0 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0	rimary econda oxious	Exotic ary Exotic Exotic		
Plant Association	S Perce	nt	Pattern		
 POTR15/ALIN2-COST4 (COST4/SYAL (KOVALCH CAUT (KOVALCHIK) Notes: 	(KOVALCHIK) HIK) Very diverse, lots of wet s side . Photos.	65 30 5 phagnu	Matrix Small patch Small patch um, boggy, swa	Rank mpy area	3 3 3 as on north

Polygon Number Survey Intensity Observer Date Specific Location	142 2 DV 6/9/06 N			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	6 4 POTR5 0 4 2 4 COST4 4 2 3 ELGL 3 0 2 SMST 2 0			
Ferns Total	0	Exotic	c Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Primary Seconda Noxious	Exotic ary Exotic Exotic	
Plant Associations	6	Percent	Pattern	De

	rereent	1 atter n	
			Rank
1. POTR5/COST4 (KOVALCHIK)	100	Matrix	3
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	143 2 DV 10/12/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	6 4 POTR5, BEOC2 0 4 2 4 SYAL, COST4 4 0 2 2 2 0 1 1			
Ferns Total	2	Exotic	Snocios	
Ferns Evergreen	0		opecies	
Ferns Deciduous ExoticsTotal	2 0	Primary E	Exotic	
Exotics Perennial Exotics Annual	0	Seconda	ry Exotic	
Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 0 100 2 2 0 4 5 3 3 3 3 1	Noxious	Exotic	
Plant Associations		Percent	Pattern	
		100		Kank
I. POTR5/SYAL (KOVALCH	IK)	100	Matrix	
2.		Ű		(
3. Notoo	Lorgo opene etcad	0	robido procest	
NOLES:	Large aspen stand	. Lauyslipper 0	renius present ((CTIVIOZ).

Polygon Number Survey Intensity Observer Date Specific Location	144 2 DV 10/12/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Perennial Forbs Annual	6 4 POTR5, PIPO 0 4 2 4 SYAL, RUPA, AM 4 0 1 1 1 0 1	AL2, COST4		
Ferns Total	0	Evetie	Cincilian	
Ferns Evergreen	0	EXOUC	species	
Ferns Deciduous	0	Primary I	Exotic	
ExoticsTotal Exotics Perennial	0	Seconda	ry Exotic	
Exotics Annual	0	occontau		
Water	0	Noxious	Exotic	
Rock Outcrop	0			
Bare Ground	0			
Moss Lichen	0			
Litter	100			
Logging	2			
Stand Age	2			
Agriculture	0			
Livestock	4			
Development Wildlife	1			
Pocreation Severity	3 2			
Recreation Type	3			
Hydrology	1			
Plant Associations	i	Percent	Pattern	Rank
1. POTR5/COST4 (KOVALC	HIK)	100	Matrix	
2.		0		
3.		0		

Notes: ON BEAR CREEK

Polygon Number Survey Intensity Observer Date Specific Location	145 1 SH 6/9/06 E			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	6 5 PIPO 2 5 2 4 PUTR2 4 1 5 PSSP6, Poa sp., BRTE 5 3 4 BASA3, LUSE4, PEPR 4	E, CA , FEI[2, LERE7,) CALY	
Forbs Annual Forms Total	0			
Ferns Fotal Ferns Deciduous Exotics Total Exotics Perennial Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 3 0 3 5 2 2 2 1 90 2 2 0 0 0 7, rattlesnake 3 3 1	Exotic Primary E BRTE Secondar Noxious E	Species ixotic y Exotic Exotic	
Plant Associations	Per	cent	Pattern	Daula
 PIPO/PUTR2/PSSP6 (LILL PIPO/PUTR2/FEID (KAGA Notes: 	_YBRIDGE) N) South-facing slope.	60 40 0	Matrix Small patch	капк

Polygon Number Survey Intensity Observer Date Specific Location	146 1 PM 6/9/06				
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs	5 5 9IPO, PSME 3 4 3 3 PUTR2, ARNE 2 3 4 CARU, PSSP6, FE 4 2 3 4 ARCO9 BASA3 A	ID PAN2 CE	RAT	CALY ZIVE	
Forbs Perennial	3	FANZ, OF	VA I, V	JALT, ZIVL	
Forbs Annual	2				
Ferns Total	0	-	- 4! -	0	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 0 1 3 1 95 3 5 0 3 0 2 3 0 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1	Ex(Prim BRT Secc Noxi	Otic aary E Dondar ous E	Species xotic y Exotic Exotic	
Plant Associations		Percent		Pattern	
 PIPO-PSME/CARU (WA N PIPO-PSME/CARU (WA N PIPO/PUTR2/FEID (KAGA Notes: 	IHP) IHP) N)		40 30 30	Matrix Small patch Small patch	Rank

Polygon Number Survey Intensity Observer Date Specific Location	147 2 DV 10/12/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	5 4 PIPO, PSME 1 4 2 3 PUTR2, SPDO 3 0 4 PSSP6 4 0 3 BASA3 3 1			
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 0 0 5 35 0 60 2 2 0 4 5 3 3 3 3 3 1	Exotic Primary E Secondar Noxious	Exotic Try Exotic Exotic	
Plant Associations	5	Percent	Pattern	Ran
		100	Matrix	

Plant Associations		Percent	Pattern		
				Rank	
1. PIPO/PUTR2/	PSSP6 (LILLYBRIDGE)	100	Matrix	2	
2.		0		0	
3.		0		0	
Notes:	PHOTOS.				

Polygon Number Survey Intensity Observer Date Specific Location	148 1 PM 6/9/06 C - east				
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Eorbs Annual	4 3 PIPO 3 2 3 PUTR2 3 3 PSSP6, BRTE 3 2 3 BASA3, ERFI2, CF 3 2	RAT, C	:OL12, G/	ADI2	
Ferns Total	0			Creater	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 1 1 2 1 10 25 0 64 2 6 0 3 0 2 3 4 (foot, horse) 0	E P B S S L N	rimary E RTE Secondar IDA Ioxious	Exotic Try Exotic Exotic	
Plant Associations		Perce	ent	Pattern	Ra

				Rank
1. PIPO/PUTR2/F	PSSP6 (LILLYBRIDGE)	100	Matrix	2
2.		0		0
3.		0		0
Notes:	Only 1 plant of LID/ skid road through a	A found. It was rea.	s pulled out clea	anly. 1 old logging
Polygon Number Survey Intensity Observer Date Specific Location	15 1 SH 5/25/06 NE			
---	---	--	-------------------------------	------
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	6 2 PIPO 0 2 0 5 PUTR2, ERHE2, AN 5 PUTR2, ERHE2, AN 5 PSSP6, BRTE 5 BASA3, PHLI, CAL ⁵ 5 1	/AL2 Y, HEUN		
Ferns Total	0	- 4	• •	
	0	Exotic	Species	
Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen	0 2 0 2 0 0 3 0 0 7	Primary E BRTE Secondar Noxious I	Exotic ry Exotic Exotic	
Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	97 0 2 0 0 0 0 0 0 0 0 1			
Plant Associations		Percent	Pattern	
 PUTR2/PSSP6 (CRAWFC . . 	PRD)	100 0 0	Matrix	Kank

3. Notes:

Polygon Number Survey Intensity Observer Date Specific Location	16 2 DV 6/27/06 N			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Eorbs Annual	4 3 PIPO 1 3 0 2 CEVE 0 2 3 CARU, POBU 3 CARU, POBU 3 BASA3, MIGR? 3 2			
Forbs Annual Ferns Total	2 0			
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 1 0 1 5 5 40 0 50 2 2 0 3 5 3 3 1	Exotic Primary E POBU Secondar Noxious E	Species ixotic y Exotic Exotic	
Plant Associations		Percent	Pattern	
 PIPO/CARU (KAGAN) . . . Notes: 	Unit burned, most tr	100 0 rees killed	Matrix	Rank

Polygon Number Survey Intensity Observer Date Specific Location	17 2 DV 5/28/2006 North Unit, Easterr	n border.	
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	5 2 PIPO 0 2 0 3 PUTR2 3 3 PSSP6, BRTE 3 3 2 LOAM, CYFR2 2		
Fords Annual Ferns Total	1	Exot	ic Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 1 2 0 2 1 5 20 0 74 0 3 0 3 3 3 3 1	Primary BRTE (Second LIDA (0	v Exotic 1%) lary Exotic s Exotic .1%)
Plant Associations	i	Percent	Pattern

Fiant Associations	rercent	rattern	
			Rank
1. PIPO/PUTR2/PSSP6 (LILLYBRIDGE)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	18 1 SH 5/25/2006 NE			
Total Vegetation	6			
Irees Iotal	0			
Dominant frees	0			
maincanony	0			
subcanopy	0			
Shrubs Total	5			
Dominant Shrubs	PUTR2, SACA52, ERH	IE2, ARTE	2	
> 1.5' tall	5			
< 1.5' tall	2			
Graminoids Total	5			
Dominant Graminoids	BRTE, PSSP6, FEID			
Graminoids Perennial	5			
Graminoids Annual	3			
Forbs Total		CALV		
Forbs Peronnial	BASAS, LUSE4, PILI,	CALT		
Forbs Annual	1			
Ferns Total	0			
	•	Evotio	Snacias	
Forna Evoraroon	0		opecies	
Ferns Deciduous	0	Drimary	Exotic	
ExoticsTotal	3	BRTE		
Exotics Perennial	1	Seconda	rv Exotic	
Exotics Annual	3	LIDA	.,	
Water		Noxious	Exotic	
Rock Outcrop	1	CEDI3		
Gravel	0			
Bare Ground	5			
Moss Lichen	0			
Litter	94			
Logging Stand Age	0			
Statiu Age Agriculture	0			
Livestock	0			
Development	3			
Wildlife	0			
Recreation Severity	3			
Recreation Type	3			
Hydrology	1			
Plant Associations	Per	cent	Pattern	D 1
		400	Matri	Kank
1. PUTR2/PSSP6 (CRAWFC	JRD)	100	Matrix	
2.		0		
5.		0		055
Notes:	wypt 003 Rocky point	15 m2 AM	AL, Penstemor	n sp., CED

2 0 0 DI3. A road Penstemon sp., CE is adjacent to the polygon.

Total Vegetation 5 Trees Total 3 Dominant Trees PIPO emergent 0 maincanopy 3 subcanopy 0 Shrubs Total 1 Dominant Strubs - > 1.5 tall 0 <1.5 tall 1 Graminoids Total 4 Oominant Graminoids Graminoids Annual Graminoids Annual 0 Forbs Total 3 Dominant Forbs Forbs Perennial Forbs Annual 2 Ferns Evergreen 0 Ferns Evergreen 0 Ferns Evergreen 0 Stotics Perennial 0 Stotics Perennial 0 Stotics Perennial 0 Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Livestock 6 Development 2 Viidlife 3 Recreation Severity 3<	Polygon Number Survey Intensity Observer Date Specific Location	19 1 HS, JR 6/26/06 burned forest			
Trees Total 3 Dominant Trees PIPO maincanopy 3 subcanopy 0 Shrubs Total 1 Dominant Shrubs > 1.5 'tall 0 < 1.5 'tall 1 Graminoids Total 4 Dominant Graminoids 4 Graminoids Perennial 4 Graminoids Perennial 3 Forbs Perennial 3 Forbs Perennial 2 Ferns Total 0 Exotic Species Ferns Evergreen 0 Ferns Deciduous 0 Primary Exotic Exotics Annual 0 Water Noxious Exotic Exotics Annual 0 Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Widilife 3 Recreation Severity 3 Recrea	Total Vegetation	5			
Dominant Trees PIPO emergent 0 maincanopy 3 subcanopy 0 Shrubs Total 1 Dominant Shrubs > 1.5' tall 0 < 1.5' tall 0 Graminoids Total 4 Dominant Graminoids Graminoids Annual 0 Forbs Total 3 Dominant Forbs Forbs Perennial 3 Forbs Annual 2 Ferns Total 0 Ferns Evergreen 0 Ferns Deciduous 0 Ferns Deciduous 0 Ferns Deciduous 0 Exotics Perennial 0 Secondary Exotic Exotics Perennial 0 Secondary Exotic Exotics Perennial 0 Secondary Exotic Exotics Annual 0 Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Widilife 3 Recreation Severity 3 Recreation Stand 1 PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 3. 0 Diperia unplascensis Keyed out In area hurned last year	Trees Total	3			
emergent 0 maincanopy 3 subcanopy 0 Shrubs Total 1 Dominant Shrubs - > 1.5' tall 0 < 1.5' tall 1 Graminoids Total 4 Dominant Graminoids Graminoids Annual 0 Forbs Total 3 Dominant Forbs - Forbs Perennial 3 Forbs Annual 2 Ferns Total 0 Exotic Species Ferns Evergreen 0 Ferns Deciduous 0 Ferns Deciduous 0 Ferns Deciduous 0 Exotics Annual 0 Water Noxious Exotic Exotics Annual 0 Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 3. 0 Dotes: Diperja unplascensis keyed out In area humed last year	Dominant Trees	PIPO			
maincanopy 3 subcanopy 0 Shrubs Total 1 Dominant Shrubs > 1.5' tall 0 Craminoids Perennial 4 Graminoids Perennial 4 Graminoids Perennial 3 Forbs Total 3 Dominant Forbs Forbs Perennial 3 Forbs Annual 2 Ferns Total 0 Ferns Deciduous 0 Ferns Deciduo	emergent	0			
subcanopy 0 Shrubs Total 1 Dominant Shrubs > 1.5' tall 0 < 1.5' tall 1 Graminoids Total 4 Dominant Graminoids Graminoids Annual 0 Forbs Total 3 Dominant Forbs Forbs Perennial 3 Forbs Annual 2 Ferns Total 0 Exotic Species Ferns Evergreen 0 Ferns Deciduous 0 Primary Exotic Exotics Perennial 0 Secondary Exotic Exotics Annual 0 Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Kank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 3. 0 Direct a unalascensis Keverd out In area humed last year	maincanopy	3			
Shrubs Total 1 Dominant Shrubs > 1.5' tall 0 < 1.5' tall 1 Graminoids Total 4 Graminoids Perennial 4 Graminoids Annual 0 Forbs Total 3 Dominant Forbs Forbs Perennial 3 Forbs Annual 2 Ferns Total 0 Ferns Evergreen 0 Ferns Evergreen 0 Ferns Deciduous 0 Ferns Deciduous 0 Ferns Evergreen 1 Exotics Perennial 0 Exotics Perennial 0 Exotics Perennial 0 Exotics Perennial 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Severity 3 Hydrology 1 Plant Associations Fineria unalascensis keyed out In area burned last year Notes: Piperia unalascensis keyed out In area burned last year	subcanopy	0			
Dominant Shrubs > 1.5' tall 0 < 1.5' tall 1 Graminoids Total 4 Dominant Graminoids Graminoids Perennial Graminoids Annual 0 Forbs Total 3 Dominant Forbs Forbs Perennial Forbs Annual 2 Ferns Total 0 Ferns Deciduous 0 Primary Exotic LABI Exotics Perennial 0 Secondary Exotic Exotics Perennial Exotics Annual 0 Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Viidlife 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern 1. <	Shrubs Total	1			
> 1.5' tall 0 < 1.5' tall 1 Graminoids Total 4 Dominant Graminoids Graminoids Annual 0 Forbs Total 3 Dominant Forbs Forbs Perennial 3 Forbs Annual 2 Ferns Total 0 Ferns Evergreen 0 Ferns Deciduous 0 Ferns Deciduous 0 Ferns Deciduous 0 Ferns Deciduous 0 Ferns Perennial 0 Exotics Perennial 0 Water Noxious Exotic Exotics Annual 0 Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Severity 3 Recreation Severity 3 Recreation Severity 3 Recreation Severity 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 Notes: Diperia unalascensis keyed out In area burned last year	Dominant Shrubs				
	> 1.5' tall	0			
Graminoids Total 4 Dominant Graminoids Graminoids Perennial 4 Graminoids Annual 0 Forbs Total 3 Dominant Forbs Forbs Annual 2 Ferns Total 0 Exotic Species Ferns Evergreen 0 Ferns Deciduous 0 Primary Exotic Exotics Total 1 Exotics Perennial 0 Secondary Exotic Exotics Annual 0 Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 3. 0 Notes: Discussion Severed out in area burned last year	< 1.5' tall	1			
Dominant Graminoids Image: Second and a constraint of the second and the secon	Graminoids Total	4			
Graminoids Perennial 4 Graminoids Annual 0 Forbs Total 3 Dominant Forbs Forbs Perennial 3 Forbs Annual 2 Ferns Total 0 Ferns Total 0 Ferns Deciduous 0 Ferns Deciduous 0 Ferns Deciduous 0 Ferns Deciduous 0 Ferns Perennial 0 Exotics Annual 0 Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Severity 3 Recreation Severity 3 Recreation Severity 3 Recreation Severity 3 Recreation Severity 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 3. 0 Notes: Diperja unalascensis keyed out in area burned last year	Dominant Graminoids				
Graminoids Annual 0 Forbs Total 3 Dominant Forbs - Forbs Perennial 3 Forbs Annual 2 Ferns Total 0 Exotic Species - Ferns Evergreen 0 Ferns Deciduous 0 Primary Exotic LABI Exotics Total 1 LABI Exotics Annual O Secondary Exotic Exotics Annual 0 Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 0 3<	Graminoids Perennial	4			
Forbs Total 3 Dominant Forbs 3 Forbs Perennial 3 Forbs Annual 2 Ferns Total 0 Exotic Species Ferns Deciduous 0 Primary Exotic Exotics Total 1 LABI Exotics Exotics Perennial 0 Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 0 0	Graminoids Annual	0			
Dominant Forbs Forbs Perennial 3 Forbs Annual 2 Ferns Total 0 Ferns Total 0 Ferns Deciduous 0 Ferns Deciduous 0 Ferns Deciduous 0 Primary Exotic Exotics Total Exotics Total 1 LABI Exotics Annual Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 0 0	Forbs Total	3			
Forbs Perennial 3 Forbs Annual 2 Ferns Total 0 Exentic Species Ferns Deciduous 0 Primary Exotic ExoticsTotal 1 LABI Exotics Perennial 0 Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1 0 Matrix 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 0 Notes: Diperia unpalascensis keved out in area burned last verial	Dominant Forbs				
Forbs Annual 2 Ferns Total 0 Ferns Total 0 Ferns Evergreen 0 Ferns Deciduous 0 Primary Exotic Exotics Total Exotics Perennial 0 Secondary Exotic Exotics Perennial Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern I. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 0 0	Forbs Perennial	3			
Ferns Total 0 Ferns Evergreen 0 Ferns Deciduous 0 Primary Exotic Exotics Total 1 LABI Exotics Perennial 0 Secondary Exotic Exotics Annual 0 Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 0 0 Notes: Diperia unalascensis keyed out. In area burned last year	Forbs Annual	2			
Exotic Species Ferns Deciduous 0 Ferns Deciduous 0 Primary Exotic Exotics Total 1 LABI Exotics Perennial 0 Secondary Exotic Exotics Annual 0 Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 0 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 0 Notes: Piperia unalascensis keyed out. In area burned last year	Ferns Total	0			
Ferns Evergreen 0 Ferns Deciduous 0 Primary Exotic Exotics Total 1 LABI Exotics Perennial 0 Secondary Exotic Exotics Annual 0 Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 3. 0 Notes: Diperia unalascensis keyed out in area burned last yeal			Exotic	: Species	5
Ferns Deciduous 0 Primary Exotic ExoticsTotal 1 LABI Exotics Perennial 0 Secondary Exotic Exotics Annual 0 Noxious Exotic Rock Outcrop 0 Gravel Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 3. 0 Notes: Piperia unalascensis keyed out. In area burned last year	Forns Evergroon	0			
Exotics Total 1 LABI Exotics Perennial 0 Secondary Exotic Exotics Annual 0 Noxious Exotic Rock Outcrop 0 Gravel Gravel 1 Bare Ground Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 3. 0 0 3. 0 0	Ferns Deciduous	0	Primary P	Trotic	
Exotics Perennial 0 Secondary Exotic Exotics Annual 0 Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 Notes: Piperia unalascensis keved out In area burned last versi	ExoticsTotal	1	I ARI		
Exotics Annual 0 Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 Notes: Piperia unalascensis keved out In area burned last versi	Exotics Perennial	0	Seconda	ry Exotic	
Water Noxious Exotic Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 0 3. 0	Exotics Annual	0	ooonaa	y <u>Exotio</u>	
Rock Outcrop 0 Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 3. 0 Notes: Piperia unalascensis keyed out In area burned last year	Water	0	Noxious	Exotic	
Gravel 1 Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 0 3. 0	Rock Outcrop	0	Hoxidad		
Bare Ground 3 Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 3. 0 Notes: Piperia unalascensis keyed out In area burned last year	Gravel	1			
Moss Lichen 0 Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 3. 0 Notes: Piperia unalascensis keyed out In area burned last year	Bare Ground	3			
Litter 96 Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 3. 0 Notes: Piperia unalascensis keyed out In area burned last year	Moss Lichen	0			
Logging 1 Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 3. 0 Notes: Piperia unalascensis keyed out In area burned last year	Litter	96			
Stand Age 3 Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 0 3. 0 Notes: Piperia unalascensis keyed out in area burned last year	Logging	1			
Agriculture 0 Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 3 0 Notes: Piperia unalascensis keyed out in area burned last year	Stand Age	3			
Livestock 6 Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 3. 0 Notes: Piperia unalascensis keyed out In area burned last year	Agriculture	0			
Development 2 Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 0 3. 0 0	Livestock	6			
Wildlife 3 Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 3. 0 Notes: Piperia unalascensis keyed out. In area burned last year	Development	2			
Recreation Severity 3 Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 0 3. 0 Notes: Piperia unalascensis keyed out. In area burned last year	Wildlife	3			
Recreation Type 3 Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 3. 0 Notes: Piperia unalascensis keyed out In area burned last year	Recreation Severity	3			
Hydrology 1 Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 3. 0 Notes: Piperia unalascensis keved out In area burned last veral	Recreation Type	3			
Plant Associations Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 3. 0 Notes: Piperia unalascensis keved out In area burned last versi	Hydrology	1			
Plant ASSOCIATIONS Percent Pattern Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 0 3. 0 0 Notes:					
Rank 1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 0 3. 0 0 Notes: Piperia upalascensis keyed out. In area burned last year	Plant Associations	;	Percent	Pattern	
1. PIPO/CARU-PSSP6 (LILLYBRIDGE) 100 Matrix 2. 0 0 3. 0 0 Notes: Piperia upalascensis keyed out. In area burned last year					Rank
2. 0 3. 0 Notes: Piperia upalascensis keved out. In area burned last veau	1. PIPO/CARU-PSSP6 (LILL	YBRIDGE)	100	Matrix	
3. 0 Notes: Piperia unalascensis keved out. In area burned last vea	2.	/	0		
Notes: Piperia unalascensis keved out. In area burned last vea	3.		0		
	Notes:	Piperia unalascen	isis keved out li	n area burneo	l last vear

Piperia unalascensis keyed out. In area burned last year.

Polygon Number Survey Intensity Observer Date Specific Location	1A 1 DV 6/6/06 N. Polygon split - s	see ortho.		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total	3 0 0 0 0 3 PUTR2 0 3 2 2			
Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Ferns Total	PSSP6, BRTE 2 2 2 HAAR3 2 2 0	Evotio	Spacias	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 1 1 1 5 25 40 0 30 0 0 0 0 6 5 2 0 0 1	EXOTIC Primary E LIDA Secondar BRTE Noxious I	Species Exotic Exotic Exotic	
Plant Associations 1. PUTR2/PSSP6 (CRAWFC 2.	PRD)	Percent 100 0	Pattern Matrix	Rank
3		Ο		

 3.
 0

 Notes:
 Steep, unstable gravelly slope.

Polygon Number Survey Intensity Observer Date Specific Location	1B 2 DV 6/6/06 N				
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	4 1 0 1 0 4 PUTR2, ARTR2, E 4 3 4 PSSP6, BRTE 4 3 3 LUSE4, PHLI 3 2	RHE2			
Ferns Total	0	Fx	otic S	Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 3 1 3 0 5 35 0 60 0 0 2 5 2 3 3 1 1 3 1 3 1 3 1 3 1 3 5 0 60 0 0 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1	Prin LID/ Sec BR1 Nox	ontic 3 A ondary E ious Ex	otic Exotic cotic	
Plant Associations		Percent	F	Pattern	R

			Rank
1. ARTR2/PSSP6 (CRAWFORD)	100	Matrix	1
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	20 2 DV 6/27/06 N			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Eorbs Annual	4 2 PIPO 0 2 0 2 CEVE 0 2 3 PSSP6, POBU 3 2 3 BASA3, CRIN4, CO 3 2	DTE		
Fords Annual Ferns Total	2			
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 0 2 1 2 47 0 50 2 2 0 3 5 3 3 3 1	Exotic Primary I POBU Seconda Noxious	Exotic Try Exotic Exotic	
Plant Associations	•	Percent	Pattern	_
 PIPO/PSSP6 (LILLYBRID . . Notes: 	GE) Burned, most trees	100 0 killed.	Matrix	Rank

Polygon Number Survey Intensity Observer Date Specific Location	21 2 DV 6/27/06 N			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	4 2 PIPO (most burned 0 2 0 2 CEVE 0 2 4 CARU, POBU, BR 4 2 2 LUSE4, EPAN2 2 2	J) TE		
Forbs Annual Ferns Total	2			
	°	Exotic	: Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 2 0 2 0 0 0 0 50 0 50 3 2 0 3 2 3 3 3 1	Primary I POBU Seconda BRTE Noxious	Exotic ry Exotic Exotic	
Plant Associations	;	Percent	Pattern	Dank
1. PIPO/CARU (KAGAN)		100	Matrix	2
2.		0		0
3.	.	0		0
NOTES:	Polygon burned in	US; was overs	tocked with sm	all PIPO, most were

Polygon burned in '05; was overstocked with small PIPO, r killed by fire

Polygon Number Survey Intensity Observer Date Specific Location	22 1 DV 11/8/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	4 1 PIPO 0 1 0 2 ARTR2, PUTR2 0 2 4 PSSP6, BRTE 4 1 2 LIDA, BASA3, SIAL2 2			
Forbs Annual	2			
rems rota	0	Exotic	Snecies	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 2 2 2 0 5 35 0 60 0 0 0 0 4 0 0 3 3 3 1	Primary E LIDA Secondar CEDI3, SIJ Noxious E	Pattern	
	rei	Cent	1 41101 11	Rank
 PUTR2/PSSP6 (CRAWFC 2. 	RD)	100 0	Matrix	
o. Notes:	Recently burned (abou	ں it 1 yr) - mo:	st PUTR2 kille	d.

Polygon Number Survey Intensity Observer Date Specific Location	23 2 DV 6/27/06 N			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Eorbs Annual	4 2 PIPO 0 2 0 2 CEVE 0 2 2 4 CARU, POBU 4 1 3 BASA3, CALY 3			
Ferns Total	0			
		Exotic	Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 1 0 1 5 5 40 0 50 2 2 0 3 5 3 3 3 1	Primary E POBU Secondar Noxious I	Exotic ry Exotic Exotic	
Plant Associations		Percent	Pattern	
		400	Motrix	Rank
1. PIPO/CARU (KAGAN) 2. 3. Notes:	Unit burned, most t	100 0 0 rees killed	Matrix	

Po Su Ob Da Sp	lygon Number rvey Intensity server te ecific Location	24 1 PM 5/25/2006				
To Tree Do em Sh Do Sh Do Gra Gra Gra Fo Do Fo	tal Vegetation ses Total minant Trees ergent incanopy bcanopy rubs Total minant Shrubs .5' tall .5' tall aminoids Total minant Graminoids aminoids Perennial aminoids Annual rbs Total minant Forbs rbs Perennial cbs Annual	4 1 PIPO 0 1 0 2 PUTR2 1 2 3 BRTE, PSSP6 2 2 3 PHHA, HAAR3, ERUI 2 2	М			
Fe	rns Total	0				
Fe	rns Evergreen	0	Exotic	c Species		
Fei Fei Exx Exx Exx Exx Exx Exx Exx Exx Exx Ex	Ins Level green rns Deciduous otics Total otics Perennial otics Annual ter ck Outcrop avel re Ground ss Lichen ter gging and Age riculture restock velopment Idlife creation Severity creation Type drology	0 3 2 2 5 15 35 0 45 0 0 45 0 0 0 0 0 0 3 3 1	Primary BRTE Seconda Noxious LIDA	Exotic Iry Exotic Exotic		
PI	ant Associations	e Po	ercent	Pattern	Donk	
1. 2. 3. No	PUTR2/PSSP6 (CRAWFC PUTR2/PSSP6 (CRAWFC tes:	DRD) DRD) parts of polygon very blooming	60 40 0 steep, rock	Matrix Large patch bare slope with	Hackelia	2 2 0 a arida

Polygon Number Survey Intensity Observer Date Specific Location	25 1 DV 11/8/06			
Total Vegetation	4			
Trees Total	0			
Dominant Trees	•			
emergent	0			
maincanopy	0			
Shrubs Total	2			
Dominant Shrubs	PUTR2 ARTR2			
> 1.5' tall	0			
< 1.5' tall	2			
Graminoids Total	4			
Dominant Graminoids	PSSP6, BRTE, POBU			
Graminoids Perennial	4			
Graminoids Annual	1			
Forbs Total	2			
Dominant Forbs	LIDA, SIAL2			
Forbs Perennial	2			
Fords Annual	2			
Ferris Total	0		0	
		EXOUC	Species	
Ferns Evergreen	0			
Ferns Deciduous	0	Primary E	xotic	
EXOLICS OTAI	2	LIDA, SIA	L2 ny Evotio	
Exotics Appual	2			
Water	2	Novious	Frotic	
Rock Outcrop	0	NOXIOUS		
Gravel	0			
Bare Ground	40			
Moss Lichen	0			
Litter	60			
Logging	0			
Stand Age	0			
Agriculture	0			
Livestock	4			
Wildlife	0			
Pocreation Severity	3			
Recreation Type	3			
Hydrology	1			
Plant Associations	Per	rcent	Pattern	Rank
1. PUTR2/PSSP6 (CRAWFC	DRD)	100	Matrix	mann
2.		0		
3.		0		
Notes:	Recently burned, most	PUTR2 kill	ed.	

Polygon Number Survey Intensity Observer Date Specific Location	26 1 HS, JR 6/27/06 west boundary in N	W section of p	olygon
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	6 0 0 0 5 PUTR2, ERUM 4 3 5 PSSP6, STCL 5 3 4 BASA3 4 2		
Ferns Total	0	Exotic	: Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 3 2 3 0 1 2 0 97 0 0 0 0 0 6 0 3 3 3 1	Primary B BRTE Seconda SIAL2 Noxious	Exotic ry Exotic Exotic
Plant Associations		Percent	Pattern

	1 01 00110		
			Rank
1. PUTR2/PSSP6 (CRAWFORD)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	27 2 DV 5/25/2006 Near firing range.			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Forbs Annual	5 1 PIPO 0 1 0 4 PUTR2 4 2 4 PSSP6, BRTE 4 3 2 CALY, PHLI 2 0			
		Exotic	: Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 3 2 3 0 10 10 0 80 0 0 0 3 3 3 3 1	Primary B BRTE Secondar Noxious LIDA	Exotic ry Exotic Exotic	
Plant Associations	i	Percent	Pattern	Rank
 PUTR2/PSSP6 (CRAWFC . . 	DRD)	100 0 0	Matrix	

Notes:

Lots of LIDA (~1%).

Polygon Number Survey Intensity Observer Date Specific Location	27A 1 DV 11/8/06 N of firing range.			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Forbs Annual	4 0 0 0 4 PUTR2, ERNI2, EI 4 2 4 STOC2, PSSP6, E 4 2 2 LUSE4 2 1 0	RHE2 RTE		
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 1 2 0 0 0 40 1 59 0 0 0 0 4 0 3 3 3 1	Exoti Primary BRTE Second LIDA Noxious	c Species Exotic ary Exotic s Exotic	
Plant Associations		Percent	Pattern	P

	1 01 00 110		
			Rank
1. PUTR2/PSSP6 (CRAWFORD)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	27B 4 HS 11/22/06			
Total Vegetation Trees Total	0 0			
Dominant Trees	•			
emergent	0			
maincanopy	0			
subcanopy	0			
Shrubs Iotal	0			
Dominant Shrubs	•			
> 1.5' tall	0			
< 1.5' tall	0			
Graminoids Total	0			
Dominant Graminoids				
Graminoids Perennial	0			
Graminoids Annual	0			
Forbs Total	0			
Dominant Forbs				
Forbs Perennial	0			
Forbs Annual	0			
Ferns Total	0			
		Exotic	Species	
Ferns Everareen	0		-	
Ferns Deciduous	0	Primary E	xotic	
ExoticsTotal	0	· · · · · · · · · · · · · · · · · · ·		
Exotics Perennial	0	Secondar	v Exotic	
Exotics Annual	0		<i>y</i>	
Water	0	Noxious I	Exotic	
Rock Outcrop	0	Nexieue		
Gravel	0			
Bare Ground	0			
Moss Lichen	0			
Litter	0			
Logging	-			
Stand Age				
Agriculture				
Livestock				
Development				
Wildlife				
Recreation Severity				
Recreation Type				
Hydrology				
Plant Associations	i	Percent	Pattern	B only
1. former agricultural field		100	Matrix	тапк
7		100	Mauria	
4.		0		

1. former agricultural field	100	Mati
2.	0	
3.	0	
Notes:		

Polygon Number Survey Intensity Observer Date Specific Location	27C 1 DV 11/8/06 Firing range.			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall	5 0 0 0 2 PUTR2 2 0			
Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Ferns Total	4 STOC2, BRTE 2 4 4 LIDA, LUSE4, SIAI 2 4 0	_2, COCA5 Exoti	c Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 5 2 5 0 0 40 0 60 0 0 44 4 2 3 3 3 1	Primary BRTE, S Seconda LABI Noxious LIDA	Exotic SIAL2, CEDI3 ary Exotic	
Plant Associations		Percent	Pattern	Rank
1. Developed 2.		100 0	Matrix	

3. Notes: Former farm field, current firing range.

Polygon Number Survey Intensity Observer Date Specific Location	27W 1 DV 5/25/2006 N Split out of 27see	map.		
Total Vegetation Trees Total Dominant Trees	6 0			
emergent	0			
maincanopy	0			
subcanopy	0			
Dominant Shrubs				
> 1.5' tall	0			
< 1.5' tall	1			
Graminoids Total	6			
Dominant Graminoids	CADO2, POPR, JUBA	, ELCI2		
Graminoids Perennial	6			
Graminoids Annuai Forbs Total	0			
Dominant Forbs	2			
Forbs Perennial	2			
Forbs Annual	2			
Ferns Total	0			
		Exotic	Species	
Ferns Evergreen	0		-	
Ferns Deciduous	0	Primary E	Exotic	
ExoticsTotal	3	POPR		
Exotics Perennial	3	Seconda	ry Exotic	
EXOLICS ANNUAL Water	2		Exotic	
Rock Outcrop	0	LIDA	LX011C	
Gravel	0			
Bare Ground	1			
Moss Lichen	0			
Litter	99			
Logging Stand Age	0			
Agriculture	0			
Livestock	3			
Development	0			
Wildlife	3			
Recreation Severity	0			
Recreation Type	0			
Hydrology	1			
Plant Associations	Pe	rcent	Pattern	Rank
1. disturbed wetland		100	Matrix	- with
<i>2</i> .		U		
J. Notos:	Vornally mosic swale	U		
NULES.	vernally mesic swale.			

Polygon Number Survey Intensity Observer Date Specific Location	29 2 HS 6/27/06			
Total Vegetation	0			
Trees Total	0			
Dominant Trees	•			
emergent	0			
maincanopy	0			
Subcanopy Shrubs Total	0			
Dominant Shrubs	0			
> 1 5' tall	0			
< 1.5' tall	0			
Graminoids Total	Õ			
Dominant Graminoids				
Graminoids Perennial	0			
Graminoids Annual	0			
Forbs Total	0			
Dominant Forbs				
Forbs Perennial	0			
Forbs Annual	0			
Ferns Total	0		-	
		Exotic	Species	
Ferns Evergreen	0		-	
Ferns Deciduous	0	Primary E	xotic	
ExoticsTotal	0			
Exotics Perennial	0	Seconda	ry Exotic	
Exotics Annual	0			
Water	•	Noxious	Exotic	
Rock Outcrop	0			
Gravel	0			
Moss Lichon	0			
l itter	0			
	0			
Stand Age				
Agriculture				
Livestock				
Development				
Wildlife				
Recreation Severity				
Recreation Type				
Hydrology				
Plant Associations		Percent	Pattern	
		i ereent	1 4000 11	Rank
1 disturbed wetland		100	Matrix	1341115
7		001	Maura	
2. 3		0		
J. Notos:	Cow trached our	U U bundad bu alaw	od field lote of	F \A/hitata
NULES.	Cow liasneu, sun	Juliaed by plow		vvintett

Cow trashed, surrounded by plowed field, lots of Whitetop. PIPOs killed by July 4th fire.

Polygon Number Survey Intensity Observer Date Specific Location	2A 1 SH 6/6/06 NE - upper slope of 2.			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	6 6 PSME, PIPO 1 6 1 4 SYAL, SPBE2, RICE 4 1 4 CARU 4 2 3 BASA3, LUSE4, CALY 3	⁷ , CAMI12		
Forbs Annual Ferns Total	1 2			
		Exotic	Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial	0 0 1 1	Primary E Secondar	Exotic ™y Exotic	
Exotics Annual Water	0	Noxious I	Exotic	
Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	2 2 2 92 3 1 0 0 0 0 0	NOXIOUS	EXOLIC	
Plant Associations	Pe	rcent	Pattern	
 PSME/SYAL/CARU (LILL) PSME/SPBE2/CARU (LILL) Nutrian 	(BRIDGE) LYBRIDGE)	70 30 0	Matrix Small patch	Rank

Notes:

Mosquitos. N-facing. Area partially burned, W portion.

Polygon Number Survey Intensity Observer Date Specific Location	2B 1 SH 6/6/06 NE - riparian area	of 2			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial	6 5 POTR5 2 5 2 5 SYAL, COST4, RII 5 2 1	.A, RUPA	A, ACC	GL	
Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	0 4 SMST, Equisetum 4 2	sp.			
Ferns Total	0	Ex	otic	Species	
Ferns Evergreen Ferns Deciduous	0 0	Prin	narv E	Exotic	
ExoticsTotal	1	0			
Exotics Perennial Exotics Annual	0	Sec	ondai	Y EXOLIC	
Water	0	Nox	ious I	Exotic	
Rock Outcrop Gravel	0 10				
Bare Ground	3				
Moss Lichen	1				
Litter	86				
Logging	0				
Stand Age	2				
Agriculture	0				
Development	2				
Wildlife	0				
Recreation Severity	3				
Recreation Type	0				
Hydrology	2 (culvert, creek				
Plant Associations	;	Percent		Pattern	Rank
 POTR5/SYAL (KOVALCH POTR5/COST4 (KOVALC 3. Notes: 	IK) HIK)		60 40 0	Matrix Large patch	

Polygon Number Survey Intensity Observer Date Specific Location Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial	3 2 DV 6/26/06 N 6 4 PSME, ALIN2 2 4 3 5 COST4, ACGL 5 0 1				
Graminoids Annual	0				
Forbs Total	3				
Dominant Forbs	VIGL, OSCH				
Forbs Perennial	3				
Ferns Total	1				
	•	Evotio	Snocios	•	
Forns Evorgroop	0		opecies	,	
Ferns Deciduous	1	Primary F	Trotic		
ExoticsTotal	0	i innary i			
Exotics Perennial	0	Seconda	ry Exotic		
Exotics Annual	0		-		
Water		Noxious	Exotic		
Rock Outcrop	2				
Gravel	3				
Bare Ground	5				
Moss Lichen	5				
	0				
Stand Age	2				
Agriculture	0				
Livestock	3				
Development	5				
Wildlife	3				
Recreation Severity	3				
Recreation Type	3				
нуагоюду	l				
Plant Associations		Percent	Pattern		
		rereent	1 attern	Donk	
		100	Matrix	1 X 411 X	
1. ALINZ-00314-3TAL (KU		100	iviau iX	3	
2. 3		0		0	
J. Notes	Ferns (deciduous)	CYFR2 ATFL	Some of this	u nolvaon hur	r
	1 0110 (00000000)			perygen bun	٠

Ferns (deciduous): CYFR2, ATFI. Some of this polygon burned in '05.

Polygon Number Survey Intensity Observer Date Specific Location	300 2 DV 10/12/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Perennial Forbs Annual	5 2 PIPO 0 2 0 4 PUTR2, ERHE2 4 2 4 PSSP6, STOC2, P 4 2 2 ACMI2, CEDI3 1 1	OBU, BRTE		
Ferns Total	0	Evotio	Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 3 0 3 0 0 40 0 60 0 1 0 4 3 3 3 3 3 1	EXOTIC Primary E POBU, BF Secondar CEDI3 Noxious I	Species Exotic TE y Exotic Exotic	
Plant Associations		Percent	Pattern	Rank
 PIPO/PUTR2/PSSP6 (LILI 3. 	YBRIDGE)	100 0 0	Matrix	

3. Notes: Some large (D') PUTR2.

Polygon Number Survey Intensity Observer Date Specific Location	31A 1 HS, JR 6/27/06 just N of shooting r	range	
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	6 5 POTR5 1 5 3 5 SYAL 5 2 3 STCO4, STOC2 3 3 3 2		
Ferns Total	0	Exotic	: Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0	Primary I BRTE Seconda SISALT Noxious	Exotic ry Exotic Exotic
Plant Associations		Percent	Pattern

			Rank
1. POTR5/SYAL (KOVALCHIK)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	31B 1 DV 6/22/06 N		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual	6 1 POTR5 0 0 1 0 0 6 JUBA, STCO4 5 1 4 CERE6, LABI 2 3 0		
	0	Exotic	Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 4 2 3 0 0 0 15 0 85 0 0 0 0 4 0 3 3 3 1	Primary B CERE6 Seconda LABI Noxious	Exotic ry Exotic Exotic
Plant Associations		Percent	Pattern

FIANT ASSOCIATIONS	Percent	Pattern	
			Rank
1. disturbed wetland	100	Matrix	1
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	32 1 HS, JR 6/26/06 large PIPO polygo	n in NE section	
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	6 5 PIPO 0 5 2 4 PUTR2 4 2 4 PSSP6, CARU 4 2 3 3		
Forbs Annual Ferns Total	1 0	Exotic	Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development	0 0 1 0 1 0 1 0 0 99 2 3 0 6 2	Primary E POBU Secondar Noxious I	ry Exotic Exotic
Recreation Severity Recreation Type Hydrology	3 3 1	Percent	Pattern

	rereene	I weeter in	
			Rank
1. PIPO/CARU-PSSP6 (LILLYBRIDGE)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	36A 2 DV 6/22/06 N			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual	5 0 0 0 2 SYAL, PUTR2 2 0 5 FEID 5 2			
Forbs Total	2			
Dominant Forbs	LUSE4, PHLI			
Forbs Annual	1			
Ferns Total	0			
		Exotic	: Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 2 0 0 15 0 85 0 0 4 4 4 5 3 3 3 1	Primary I POBU Seconda CEDI3 Noxious BRTE	Exotic Iry Exotic Exotic	
Plant Associations		Percent	Pattern	р.
 former agricultural field 3. 	Other evention	100 0 0	Matrix	Rank
NOTES:	Other exotics pres	ent: DERI, LAE	SI, TRUU, VEI	H. Former

former agricultural field	100	Matrix 1	
	0	0	
	0	0	
tes:	Other exotics present: DERI, LABI have been plant in FEOV.	, TRDU, VETH. Former fiel	d; may

Polygon Number Survey Intensity Observer Date Specific Location	36B 1 DV 6/22/06 N		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total	5 0 0 0 0 0 0 4 JUBA, ELCI2, BRT 4 3 4	Ē	
Dominant Forbs Forbs Perennial	CADR, CERE6		
Forbs Annual	1		
Ferns Total	0		
		Exoti	c Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type	0 0 5 4 3 0 0 0 12 0 88 0 0 0 0 4 5 3 3 3 1	Primary Seconda Noxious	Exotic ary Exotic Exotic
Plant Associations	;	Percent	Pattern

	rercent	rattern	
			Rank
1. disturbed wetland	100	Matrix	1
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	37 2 HS 6/27/06			
Total Vegetation	0			
Dominant Troos	0			
omergent	0			
maincanopy	0			
subcanopy	0			
Shrubs Total	0			
Dominant Shrubs				
> 1.5' tall	0			
< 1.5' tall	0			
Graminoids Total	0			
Dominant Graminoids				
Graminoids Perennial	0			
Graminoids Annual	0			
Portos Total Dominant Forbs	0			
Forbs Perennial	0			
Forbs Annual	0			
Ferns Total	0			
		Exotic	Snecies	
Forns Evoraroon	0		opecies	
Ferns Deciduous	0	Primary F	votic	
ExoticsTotal	0	i mary L		
Exotics Perennial	0	Seconda	rv Exotic	
Exotics Annual	0			
Water		Noxious	Exotic	
Rock Outcrop	0			
Gravel	0			
Bare Ground	0			
Moss Lichen	0			
Litter	0			
Stand Age				
Agriculture				
Livestock				
Development				
Wildlife				
Recreation Severity				
Recreation Type				
Hydrology				
Plant Associations	i	Percent	Pattern	Donk
1 disturbed wetland		100	Motrix	Nalik
		100	Wallix	
2. 3		0		
J. Notos:	Poo protonoio our	U Now/Whiteter	mixed in ELV	
110103.	i ua praterisis SWa	ale w/ wvfiitetop i	INACU III. ELT	

Poa pratensis swale w/ Whitetop mixed in. ELYCIN on the margins. Very disturbed by cattle.

Polygon Number Survey Intensity Observer Date Specific Location	38 1 HS, JR 6/26/06 eastern boundary		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids	5 5 PIPO 1 5 1 3 PUTR2 3 2 3		
Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	3 0 3		
Forbs Annual Ferns Total	1 0	Exoti	c Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Evotics Peropaial	0 0 0	Primary	/ Exotic
Exotics Annual Water Rock Outcrop	0	Noxiou	s Exotic
Gravel Bare Ground Moss Lichen Litter	1 0 0 99		
Logging Stand Age Agriculture Livestock Development	5 0 0 6		
Wildlife Recreation Severity Recreation Type Hydrology	3 3 3 1		
Plant Associations		Doroont	Dattorn

riant Associations	Percent	Pattern	
			Rank
1. PIPO/PUTR2/PSSP6 (LILLYBRIDGE)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	4 1 DV 6/26/06 N				
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	4 2 PIPO 0 2 2 1 CEVE 0 1 3 PSSP6, POBU, B 3 2 BASA3, PHLI 2	RTE			
Forbs Annual	2				
Ferns Total	0		•		
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 0 2 10 10 50 0 30 0 2 0 30 0 2 0 31 5 3 3 3 1	Exotic Primary I POBU Seconda BRTE Noxious	Species Exotic ry Exotic Exotic		
			• • • •	Rank	
1. PIPO/PSSP6 (LILLYBRID	GE)	100	Matrix	2	
<i>L</i> . 2		0		0)
o. Notes:	Exotics: 1% of PC	UBU & BRTE. TI	nis unit burned	ں l in '05 fire: ł	ĸ

Exotics: 1% of POBU & BRTE. This unit burned in '05 fire; killed what little PUTR2 had been here.

Polygon Number Survey Intensity Observer Date Specific Location	40 1 HS, JR 6/27/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Eorbs Annual	6 1 0 1 0 0 0 5 FEID 5 3 4 LUSE4, COGR2 3			
Ferns Total	0		_	
Ferns Evergreen Ferns Deciduous Exotics Total Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology Plant Associations	0 0 3 2 3 0 0 2 0 98 0 0 6, abandoned 6 3 3 3 1	Exotic Primary BRTE Seconda POBU Noxious	Exotic ry Exotic Exotic Exotic	
				Ra

Fiant Associations	Percent	Pattern	
			Rank
1. former agricultural field	100	Matrix	1
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	41 1 HS, JR 6/26/06 center of N parcel		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs	6 5 PIPO 3 4 3 2 2 1 5 CARU 5 0 3		
Forbs Perennial	3		
Ferns Total	0		
	•	Fxof	tic Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 100 1 5 0 6	Primar Secon Noxiou	ry Exotic dary Exotic us Exotic
Development Wildlife Recreation Severity Recreation Type Hydrology	0 3 3 3 1		
Plant Associations		Percent	Pattern

	1 creent	1 attern	
			Rank
1. PIPO/CARU (KAGAN)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	42 1 HS, JR 6/27/06 E of shooting range	e	
Total Vegetation Trees Total Dominant Trees emergent	6 2 0		
maincanopy subcanopy Shrubs Total	2 0 0		
Dominant Shrubs > 1.5' tall < 1.5' tall	0 0		
Graminoids Total Dominant Graminoids Graminoids Perennial	6 ELCI2, JUBA 6		
Graminoids Annual Forbs Total Dominant Forbs	0 3		
Forbs Perennial Forbs Annual Ferns Total	3 2 0		
		Exc	otic Species
Ferns Evergreen Ferns Deciduous	0	Prim	ary Exotic
Exotics Perennial Exotics Annual	2 2 0	Seco CADI	ndary Exotic R
Water Rock Outcrop Gravel	0 0	Noxi	ous Exotic
Bare Ground Moss Lichen Litter	0 0 100		
Logging Stand Age Agriculture	0 0 0		
Livestock Development Wildlife	2 0 3		
Recreation Severity Recreation Type Hydrology	3 3 1		
Plant Associations		Percent	Pattern

			Rank
1. LECI grassland (WA NHP)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	43 2 DV 5/28/2006 N Unit, SE 1/4		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall	5 5 PIPO 0 5 4 0		
Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Ferns Total	4 CARU 4 0 4 BASA3 4 0 0	Fveti	Succion
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0	Exoti Primary BRTE Seconda Noxious	C Species Exotic ary Exotic Exotic
Plant Associations	i	Percent	Pattern F

	rercent	1 attern		
			Rank	
1. PIPO/CARU (KAGAN)	100	Matrix	2	
2.	0		0	
3.	0		0	
Notes:				
Polygon Number Survey Intensity Observer Date Specific Location	44 1 HS, JR 6/26/06 eastern boundary,	northe	rn sectior	1
--	--	--------	------------	----------
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Annual Forbs Total Dominant Forbs	6 5 PIPO 2 4 3 3 PUTR2, SYAL 3 2 5 5 5 0 3			
Forbs Perennial	3			
Forbs Annual	1			
Ferns Total	0			
		E	Exotic	Species
Ferns Evergreen	0	_		
Ferns Deciduous	0	Р	rimary E	xotic
ExoticsTotal	1	T	RCO	
Exotics Perennial	1	Ś	econdary	/ Exotic
Exotics Annual	0	-		
Water	•	N	oxious E	xotic
Rock Outcrop	1			
Gravel	0			
Bare Ground	2			
Moss Lichen	0			
Litter	97			
Logging	1			
Stand Age	5			
Agriculture	0			
Livestock	6			
Development	0			
Wildlife	3			
Recreation Severity	3			
Recreation Type	3			
Hydrology	1			
Plant Associations		Perce	ent	Pattern

	rereent	1 attern	
			Rank
1. PIPO/PUTR2/PSSP6 (LILLYBRIDGE)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	45 1 PM 5/25/2006			
Total Vegetation Trees Total	6 0			
omergent	٥			
maincanopy	0			
subcanopy	0			
Shrubs Total	4			
Dominant Shrubs	PUTR2, ARTR4			
> 1.5' tall	2			
< 1.5' tall	4			
Graminoids Total	4			
Dominant Graminoids	PSSP6, BRTE, POBU			
Graminoids Perennial	4			
Graminoids Annual	1			
Portos Total Dominant Forbs				
Forbs Perennial	ASAS, LODI, LUSE4,	HEUN, CC	JFA3	
Forbs Annual	2			
Ferns Total	0			
	-	Evotic	Snacias	
	0		opecies	
Ferns Deciduous	0	Drimary F	votic	
ExoticsTotal	2		.xouc	
Exotics Perennial	2	Secondar	v Exotic	
Exotics Annual	1	POBU	, Exerie	
Water		Noxious I	Exotic	
Rock Outcrop	0	BRTE		
Gravel	1			
Bare Ground	3			
Moss Lichen	0			
Litter	96			
Logging	0			
Stand Age	0			
Agriculture Livestock	2			
Development	0			
Wildlife	0			
Recreation Severity	3			
Recreation Type	3			
Hydrology	0			
Plant Associations	Per	cent	Pattern	
				Rank
I. PUTR2/PSSP6 (CRAWFC	IRD)	100	Matrix	
2.		0		
3.		0		
Notes:	Pretty good condition-	could be 2	or 3 rank.	

Polygo Survey Observ Date Specifie	n Number Intensity er c Location	46 1 SH, PM 5/25/2006 SW					
Total V. Trees T Domina emerge mainca subcan Shrubs Domina < 1.5' ta < 1.5' ta Gramin Gramin Gramin Forbs T Domina	egetation otal ant Trees ent nopy opy Total ant Shrubs all oids Total ant Graminoids noids Perennial noids Annual Fotal ant Forbs	6 5 POTR5, BEOC2 1 5 2 4 SYAL, COST4, PR 4 2 3 BRTE, PSSP6, Car 2 2 4 SMST, LODI, LIRU	VI, Rosa rex sp., S 14, URDI	sp. Scirpus	s sp., Juncus st	5.	
Forbs F	Perennial	4	.,				
Forbs A	Annual	1					
Ferns T	Total	0					
			Ex	otic	Species		
Ferns E Ferns E Exotics Exotics Exotics Exotics Water Rock O Gravel Bare G Moss L Litter Loggin Stand A Agricul Livesto Develo Wildlife Recrea Hydrold	Evergreen Deciduous STotal S Perennial S Annual Putcrop round ichen g Age ture ick pment stion Severity tion Type ogy	0 0 3 3 0 0 0 0 2 0 98 0 0 98 0 0 0 2 0 98 0 0 1,3 1	Prin CIAI Sec ARN Nox	nary E R4 ondar ⁄/I2 cious E	y Exotic Exotic		
Plant	t Associations		Percent		Pattern		
						Rank	
1. POT 2. POT	TR5/SYAL (KOVALCHI TR5/COST4 (KOVALCI	K) HIK)		70 30	Matrix Small patch	1	
3. Notes:		Roads on boundary	y of polyg	0 gon. Ci	ultivated site. L	0 ilac, Iris, et	tc.

Polygon Number Survey Intensity Observer Date Specific Location	47 1 PM, SH 5/25/2006 Immediately south of ri	ifle range.			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Forbs Annual	5 0 0 0 2 PUTR2, AMAL2, PRVI 2 2 5 PSSP6, BRTE, AGCR 5 2 3 LODI, HEUN, ERCO5, 3 2	, POBU BASA3			
Ferns Total	0	Exotic	: Species		
Ferns Evergreen Ferns Deciduous Exotics Total Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 4 4 2 0 1 4 0 95 0 0 6 4 2 0 2 6 0 2 6 0 2 6 0	Primary I CADR Seconda LIDA Noxious BRTE	Exotic rry Exotic Exotic		
Plant Associations	Per Per	rcent	Pattern	Rank	
 former agricultural field PUTR2/PSSP6 (CRAWFC Notes: 	DRD) Old field, now fallow, p	80 20 0 lanted to e	Matrix Small patch exotic grass. No	present	1 2 0 use of

boundary. Multiple rec. types.

Polygon Number Survey Intensity Observer Date Specific Location	48 2 DV 5/28/2006 SE 1/4			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial	6 3 PIPO 0 3 2 3 PUTR2 2 2 4 FEID 4			
Graminoids Annual Forbs Total	0			
Dominant Forbs	BASA3			
Forbs Perennial	4			
Forbs Annual	0			
Ferns Total	0			
		Exoti	c Species	5
Ferns Evergreen	0		•	
Ferns Deciduous	0	Primary	Exotic	
ExoticsTotal	0			
Exotics Perennial	0	Seconda	ary Exotic	
Exotics Annual	0		•	
Water		Noxious	Exotic	
Rock Outcrop	0			
Gravel	0			
Bare Ground	3			
Moss Lichen	2			
Litter	95			
Logging	2			
Stand Age	2			
Agriculture	0			
Livestock	3			
Development	3			
Wildlife Researchism Convertitue	2			
Recreation Severity	3			
	3			
пушгоюду	I			
Plant Associations	i	Percent	Pattern	Ban ly
		400	Motris	Nalik
1. PUTRZ/FEID (CRAWFOR	ט)	100	Matrix	2
2.		0		0
5.	_ .	0		.0
NOTES:	i rees are young t	out site is in go	oa condition, fe	w non-native

Trees are young but site is in good condition, few non-native sp.

Polygon Number Survey Intensity Observer Date Specific Location	49 2 DV 5/25/2006 N Near firing range		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	5 0 0 0 4 PUTR2, ERHE2 4 3 4 PSSP6, BRTE 4 4 4 PHLI 4		
Forbs Annual	3		
Ferns Total	0	Exotic	- Encoico
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 4 1 4 0 0 0 15 0 85 0 0 0 3 0 3 3 1	Exotic Primary BRTE (18 Seconda Noxious LIDA (1%	C Species
Plant Associations		Percent	Pattern

	1 01 00		
			Rank
1. PUTR2/PSSP6 (CRAWFORD)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	5 2 DV 6/26/06 N			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Ferns Total Ferns Evergreen Ferns Deciduous Exotics Total Exotics Perennial Exotics Perennial Exotics Perennial Exotics Perennial Exotics Perennial Exotics Annual Water Rock Outcrop	4 4 PIPO 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0	BU ADI2 Exotic Primary I POBU Seconda BRTE Noxious	Species Exotic ry Exotic Exotic	
Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	40 0 60 2 2 0 4 0 3 3 3 3 1			
Plant Associations		Percent	Pattern	Rank
1. PIPO/PSSP6 (LILLYBRID	GE)	100	Matrix	2
2.		0		0
ა. Notes:	1% POBU, BRTE.	0 Much of this u	nit burned in '0	0 5; cool unde

1% POBU, BRTE. Much of this unit burned in '05; cool underburn, killing shrubs but not trees.

Polygon Number Survey Intensity Observer Date Specific Location	50 1 HS, JR 6/26/06 eastern boundary of MWA	
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	5 2 0 2 0 3 PUTR2 3 1 5 PSSP6 5 2 2 2	
Forbs Annual Forbs Total	2	
Ferns Total	Exot	ic Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 Primar 2 BRTE 0 Second 2 Noxiou 0 5 2 0 93 0 0 0 0 0 0 0 0 3 3 1	y Exotic dary Exotic is Exotic
Plant Associations	Percent	Pattern

			Rank
1. PUTR2/PSSP6 (CRAWFORD)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	51 1 DV 6/23/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual	6 2 BEOC2 0 2 0 4 Salix 4 0 5 PHAR3 5 0 4 CIAR4, URDI 4 0			
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Exotic Primary E PHAR3 Secondar CIAR4 Noxious E	Species ixotic y Exotic Exotic	
Plant Associations	•	Percent	Pattern	Rank
 disturbed wetland 2. 		100 0	Matrix	

<i>Z</i> .	
3.	
Notes:	Very

0 Very small wet area: sub-irrigated edges.

Polygon Number Survey Intensity Observer Date Specific Location	52A 1 DV 6/23/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	6 0 0 2 RONU 2 0 6 AGRE, BRIN2, BRT 5 3 3 BASA3, CADR 3 1	ſE		
Ferns Total	0	Exo	tic Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology Plant Associations	0 0 6 6 3 0 0 0 0 0 0 0 0 0 0 0 0 0	EXO Prima AGRE Secor BRINZ Noxio CADR	tic Species ry Exotic ndary Exotic bus Exotic	
riant Associations		Percent	Pattern	R

i iaili Associations	rercent	rattern	
			Rank
1. former agricultural field	100	Matrix	1
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	52B 2 DV 6/28/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	5 1 POTR5 0 1 1 1 PUTR2 1 0 5 PSSP6, BRTE, POB 4 3 2 LUSE4, LABI 2 2	U		
Ferns Total	0	Exotic	Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 3 2 3 1 0 25 0 74 0 0 4 4 4 0 3 3 1 1	Primary E BRTE Secondar POBU Noxious LIDA	Exotic ry Exotic Exotic	
Plant Associations	P	ercent	Pattern	Rank
 PUTR2/PSSP6 (CRAWFC LECI grassland (WA NHP) 3.))	95 5 0	Matrix linear	

2.	LECI grassland (WA NHP)

3. Notes:

Polygon Number Survey Intensity Observer Date Specific Location	53A 1 DV 5/25/2006 Near firing range sw1/4	ŀ.	
Total Vegetation Trees Total	6 0		
Dominant Trees	•		
emergent	0		
subcanopy	0		
Shrubs Total	0		
Dominant Shrubs	•		
> 1.5' tall	0		
< 1.5' tall	0		
Graminoids Total	4		
Dominant Graminoids	JUBA, ELCI2		
Graminoids Perennial	4		
Graminoids Annual	0		
Forbs Total	5		
Dominant Forbs	CADR, CIAR4, PLSC2		
Forbs Annual	4		
Ferns Total			
	0	Evotio	Spaciae
	•	EXOLIC	Species
Ferns Evergreen	0		votio
Exotics Total	5		XOUC
Exotics Perennial	4	Secondar	v Exotic
Exotics Annual	4	CADR	y Exotio
Water		Noxious E	Exotic
Rock Outcrop	0		
Gravel	0		
Bare Ground	5		
Moss Lichen	0		
Litter	95		
Logging	0		
Stand Age	0		
Agriculture	2		
Development	0		
Wildlife	2		
Recreation Severity	3		
Recreation Type	3		
Hydrology	1		
Plant Associations	Per	cent	Pattern

	1 creent	1 attern	
			Rank
1. former agricultural field	100	Matrix	1
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	53B 1 DV 5/25/2006 SW 1/4			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	6 4 POTR5 0 4 4 0 0 0 5 POPR 5 0 4 SMST 4			
Forbs Annual	0			
Ferns Total	0		. .	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 4 4 0 0 0 0 0 0 0 100 0 2 0 2 0 2 0 2 3 3 1	Exotic Primary I POPR Seconda Noxious	: Species Exotic ry Exotic Exotic	
Plant Associations	5	Percent	Pattern	
1. POTR5/SYAL (KOVALCH	IIK)	100	Matrix	Rank
2.	,	0		
3. Notes:	photos	0		

Polygon Number Survey Intensity Observer Date Specific Location	54 1 DV 6/22/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual	6 2 BEOC2 0 2 COST4, SACE 2 0 4 PHAR3, BRTE 4 2 4 CIAR4 4 1 0			
F F	0	Exotic	c Specie	S
Ferns Evergreen Ferns Deciduous Exotics Total Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 5 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Primary CIAR4 Seconda PHAR3 Noxious CADR	Exotic Iry Exotic Exotic	
Plant Association	IS	Percent	Pattern	Ran
1. disturbed wetland		100	Matrix	13411

Plant Associations	ercent Percent	Pattern	
			Rank
1. disturbed wetland	100	Matrix	1
2.	0		0
3.	0		0
Notes:	Exotics BRTE & LABI also prese	ent.	

Polygon Number Survey Intensity Observer Date Specific Location	55 2 DV 6/22/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy	6 4 POTR5 0 4			
subcanopy Shrubs Total	2 4			
Dominant Shrubs > 1.5' tall	Salix sp., COST4,	PRVI, AMAL2		
 S tall Graminoids Total Dominant Graminoids 				
Graminoids Perennial	1 1			
Forbs Total Dominant Forbs	1			
Forbs Perennial Forbs Annual	1 1			
Ferns Total	0	Exotic	Species	
Ferns Evergreen Ferns Deciduous	0 0	Primary E	Exotic	
Exotics Total Exotics Perennial	0	Seconda	ry Exotic	
Water Rock Outcrop	0	Noxious	Exotic	
Gravel Bare Ground	0 5			
Moss Lichen Litter	0 95			
Logging Stand Age	0 2			
Livestock Development	3 5			
Wildlife Recreation Severity	3 3			
Recreation Type Hydrology	3 1			
Plant Associations	5	Percent	Pattern	D I
1. POTR5/COST4 (KOVALC	HIK)	100	Matrix	Kank
3. Notes:		0		

Plant Associations		Percent	Pattern	R
Recreation Severity Recreation Type Hydrology	3 3 1			
Development Wildlife	2			
Livestock	4			
Agriculture	0			
Stand Age	2			
Logging	0			
Litter	80			
Moss Lichen	0			
Bare Ground	20			
Gravel	0			
water Rock Outeron	0	NOXIO	US EXOLIC	
Exotics Annual	1	NI		
Exotics Perennial	0	Secon	dary Exotic	
ExoticsTotal	1	BRTE		
Ferns Deciduous	0	Prima	ry Exotic	
Ferns Evergreen	0			
		Exo	tic Species	
Ferns Total	0			
Forbs Annual	2			
Forbs Perennial	3			
Dominant Forbs	BASA3, PALI			
Forbs Total	3			
Graminoids Annual	1			
Graminoids Perennial	4			
Dominant Graminoids	PSSP6			
Graminoids Total	4			
< 1.5 tall	3			
> 1 5' tall	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
Silrubs Total				
subcanopy	0			
maincanopy	1			
emergent	0			
Dominant Trees	PIPO			
Trees Total	1			
Total Vegetation	5			
Specific Location	N			
Date Descrifte Lesset	6/26/06			
Observer	DV			
Survey Intensity	2			
Polvaon Number	56			

	1 ci cent	1 atter n	
			Rank
1. PUTR2/PSSP6 (CRAWFORD)	100	Matrix	3
2.	0		0
3.	0		0
Notes:			

Plant Associations	Pe	ercent	Pattern	De
Recreation Severity Recreation Type	3 3			
Wildlife	3			
Development	5			
Agriculture	0			
	2			
Logging Stand Are	2			
Litter	70			
Moss Lichen	3			
Bare Ground	24			
Gravel	2			
Rock Outcrop	1			
Water		Noxious	Exotic	
Exotics Annual	2	2000.000	,	
Exotics Perennial	0	Seconda	rv Exotic	
ExoticsTotal	2	PORU		
Ferns Deciduous	0	Primary P	Exotic	
Forns Evergreen	0		species	
Ferns lotal	U	Exatio	Chaoles	
Forbs Annual	1			
Forbs Perennial	3 1			
Dominant Forbs	BASA3			
Forbs Total	3			
Graminoids Annual	2			
Graminoids Perennial	4			
Dominant Graminoids	CARU, PSSP6, POB	U		
Graminoids Total	4			
< 1.5' tall	0			
> 1.5' tall	4			
Dominant Shrubs	PUTR2			
Shrubs Total	4			
subcanopy	2			
maincanopy	3			
emergent	0			
Dominant Trees	PIPO			
Trees Total	5 3			
	F			
Specific Location				
Date	6/12/06			
Observer	DV			
Survey Intensity	1			
Polygon Number	57			

	rercent	1 attern	
			Rank
1. PIPO/PUTR2/PSSP6 (LILLYBRIDGE)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	58 2 DV 6/12/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Forbs Annual	6 4 PSME, POTR5 1 4 4 5 SYAL, SASC, RON 5 2 2 CARU 2 CARU 2 SMRA 2 0 1	U		
Ferns lotal	1	Exotic	: Species	;
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 1 0 0 3 1 1 1 94 2 2 0 3 5 3 0 0 1	Primary I Seconda Noxious	Exotic ry Exotic Exotic	
Plant Associations		Percent	Pattern	Rank
 POTR5/SYAL (KOVALCH) . . 	K)	100 0 0	Matrix	

3. Notes:

Fern = CYFR2.

Polygon Number Survey Intensity Observer Date Specific Location	59 1 PM 5/29/2006 C NE				
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	6 5 PSME, PIPO 3 4 3 4 SPBE2, AMAL2, S 3 3 CARU, PSSP6, BF 3 1 3 BASA3, COPA3, S 3	YAL, PUTR2 RTE, POBU SMRA			
Forbs Annual	1				
rems rotai	I	Exotic	Snacios		
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 1 1 1 2 2 3 4 89 2 3 0 0 2 0 3 3 0	Primary I BRTE Seconda POBU Noxious	Exotic ry Exotic Exotic		
Plant Association	S	Percent	Pattern	D 1	
1. PIPO-PSME/CARU (WA	NHP)	95	Matrix	Kank	2
2. PIPO-PSME/PSSP6 (BO	URGERON)	5	Small patch		2
o. Notes:	Old logging road th	0 hrough area. Ph	notos. Road alo	ong edge.	0

Polygon Number Survey Intensity Observer Date Specific Location	6 2 DV 6/26/06 N			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Ferns Total	5 3 PSME 2 3 2 3 ACGL, SYAL 2 3 4 CARU 4 1 3 ARCO9 3 1 1			
	•	Exotic	Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 1 0 0 0 5 0 20 2 73 0 2 0 3 5 3 3 1	Primary E Secondar Noxious E	ixotic y Exotic Exotic	
Plant Associations		Percent	Pattern	
 PSME/SYAL/CARU (LILL) 3. 	(BRIDGE)	100 0 0	Matrix	Rank

S. Notes: Ferns (deciduous): CYFR2

Polygon Number Survey Intensity Observer Date Specific Location	60 1 DV 6/23/06 N			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	6 3 PIPO 0 3 3 9 PUTR2 3 1 2 FEID 2 1 4 BASA3 4			
Forbs Annual Ferns Total	2 0		Exoti	c Snecies
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 1 0 1 0 0 0 10 0 90 2 2 0 3 2 2 3 3 1		Primary POBU Seconda Noxious	Exotic ary Exotic Exotic
Plant Associations	S	Pe	ercent	Pattern

			Rank
1. PIPO/PUTR2/FEID (KAGAN)	100	Matrix	3
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	61 1 DV 6/23/06 N					
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Ferns Total	5 2 PIPO 0 2 2 2 2 SACE 2 1 4 STOC2, cultivated 3 3 3 LUSE4, CEDI3 2 3 0	d rye Ex(otic	: Species	5	
Ferns Evergreen	0			•		
Ferns Deciduous	0	Prim	ary l	Exotic		
Exotics Total	4	rye				
Exotics Perennial	3	Seco	onda	ry Exotic		
Exotics Annual	3	CED	13	Evotio		
water Book Outoron	0	NOX	ous	EXOLIC		
Gravel	0					
Bare Ground	25					
Moss Lichen	0					
Litter	75					
Logging	2					
Stand Age	3					
Agriculture	4					
Livestock	2					
Development	2					
Wildlife Represention Sourcritur	3					
Recreation Type	1					
Hydrology	1					
Plant Associations	•	Percent		Pattern		
					Rank	
1. disturbed meadow		1	00	Matrix		1
2.			0			0
3.			0			0
Notes:	Highly disturbed s	ite; former	ly far	med, now dis	persed car	mps

Highly disturbed site; formerly farmed, now dispersed campsite, but has 10 PIPO 18-30" DBH. 10% CEDI3.

Polygon Number Survey Intensity Observer Date Specific Location	62 2 DV 6/23/06 N			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	5 2 PIPO 0 2 0 2 PUTR2 2 0 5 PSSP6, POBU 5 2 3 CRIN4, BASA3, PHLI 3			
Forbs Annual	2			
rems roldi	0	Evotic	Snacias	
Ferns Evergreen Ferns Deciduous Exotics Total Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 0 2 0 0 2 0 0 25 0 75 2 2 0 3 5 3 3 3 1	EXOTIC Primary E POBU Secondar Noxious	Species	
Plant Associations	e Pe	ercent	Pattern	
 PIPO/PUTR2/PSSP6 (LIL 3. Notes: 	LYBRIDGE)	100 0 0	Matrix	Rank

Polygon Number Survey Intensity Observer Date Specific Location	63 2 DV 6/23/06 N		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual	5 2 PIPO 0 2 0 3 PUTR2 3 2 4 PSSP6 4 1 4 BASA3, PHLI 4 2		
Ferns Total	0	Exotic	: Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 1 0 1 0 0 20 0 80 2 2 0 3 0 3 3 3 1	Primary I POBU Seconda Noxious	Exotic ry Exotic Exotic
Plant Associations		Percent	Pattern

I Iant Associations	rercent	rattern	
			Rank
1. PIPO/PUTR2/PSSP6 (LILLYBRIDGE)	100	Matrix	3
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	65 2 DV 6/23/06 N			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	5 1 PIPO 0 1 0 3 PUTR2 3 2 4 FEID, PSSP6, BR ⁻ 4 2 3 BASA3, PHLI 3	ΓΕ, POBU		
Forbs Annual	3			
Ferns Total	0			
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 2 0 2 0 0 15 0 85 0 0 0 3 2 2 3 3 1	Exotic Primary B BRTE Seconda POBU Noxious	Exotic Try Exotic Exotic	
Plant Associations	;	Percent	Pattern	
 PUTR2/FEID (CRAWFOR . . Notes: 	D)	100 0 0	Matrix	Rank

Polygon Number Survey Intensity Observer Date Specific Location	66 1 SH 6/9/06 Campground near B	ear Creek	
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	5 4 PIPO, POTR5 0 0 4 PUTR2, PRUL, SAC 0 5 POBU, PSSP6, Stip 0 3 LUSE4, CALY 0	E, SYAL, a sp.	
Forbs Annual	0		
Ferns Total	0		
		Exot	ic Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water	0 0 4 4 0	Primar POBU Second CEDI3 Noviou	y Exotic dary Exotic
Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 2 15 1 82 3 2 0 0 6 (roads, 0 0 1	NOXIOU	S EXOTIC
Plant Associations		Percent	Pattern

	i ci cent	1 attern	
			Rank
1. PIPO/PUTR2/PSSP6 (LILLYBRID	GE) 100	Matrix	1
2.	0		0
3.	0		0
Notes: Roads	, bathrooms		

Polygon Number Survey Intensity Observer Date Specific Location	67 1 PM 6/9/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs	4 3 PIPO 1 3 1 3 PUTR2 2 3 4 PSSP6, FEID, BRT 4 2 3 BASA3, CRAT, ER	E, POBU F12, COL12		
Forbs Perennial Forbs Annual Ferns Total	3 2 0	Evoti	ic Spacias	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 1 2 3 15 20 1 61 2 6 0 3 5 1 3 3 1 1 3 3 1 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 2 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Primary BRTE Second CEDI3 Noxious	IC Species / Exotic lary Exotic s Exotic	
 Plant Associations PUTR2/PSSP6 (CRAWFO PIPO/PUTR2/PSSP6 (LILL PIPO/PUTR2/FEID (KAGA 	RD) _YBRIDGE) N)	Percent 80 15 5	Pattern Matrix Small patch Small patch	Rank

Notes: heavy browsing and dieback of PUTR2

Polygon Number Survey Intensity Observer Date Specific Location	68 1 PM 6/9/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy	5 5 PIPO, PSME 3 4 3			
Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids	3 PUTR2, ARNE 2 3 4 CARU PSSP6 FEID			
Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	4 2 3 ARCO9, BASA3. ZIVE 3	E, CALY		
Ferns Total Ferns Evergreen Ferns Deciduous	2 0 0 0	Exotic Primary E	Species	
ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop	2 0 2	BRTE Secondar Noxious I	ry Exotic Exotic	
Gravel Bare Ground Moss Lichen Litter Logging	1 3 1 95 3			
Agriculture Livestock Development Wildlife Recreation Severity	5 0 3 0 2 3			
Recreation Type Hydrology Plant Associations	3 0 Pe	ercent	Pattern	Rank
 PIPO-PSME/PUTR2 (BOU PIPO-PSME/CARU (WA N Notes: 	JRGERON) IHP)	80 20 0	Matrix Small patch	

Polygon Number Survey Intensity Observer Date Specific Location	69 1 DV 6/23/06 N			
Total Vegetation Trees Total	0 0			
emergent	0			
maincanopy	0			
subcanopy	0			
Shrubs Total	0			
Dominant Shrubs				
> 1.5' tall	0			
< 1.5' tall	0			
Graminoids Total	0			
Dominant Graminoids	•			
Graminoids Perennial	0			
Graminoids Annual	0			
Portos Total Dominant Forbs	0			
Forbs Perennial	0			
Forbs Annual	0 0			
Ferns Total	0			
		Exotic	Snacias	
Forns Evoraroon	0		Opecies	
Ferns Deciduous	0	Drimary F	votic	
FxoticsTotal	0	Finaly	.xouc	
Exotics Perennial	0	Seconda	v Exotic	
Exotics Annual	0		,	
Water		Noxious	Exotic	
Rock Outcrop	0			
Gravel	0			
Bare Ground	0			
Moss Lichen	0			
Litter	0			
Logging Stand Age				
Agriculture				
Livestock				
Development				
Wildlife				
Recreation Severity				
Recreation Type				
Hydrology				
Diant Associations			-	
Plant Associations		Percent	Pattern	
				Rank
1. agricultural field		100	Matrix	
2.		0		
3.		0		
Notes:	These are alfalfa f	elds - see map	Actually have	a high pe

These are alfalfa fields - see map. Actually have a high percentage alfalfa (80%). Weedy around edges, esp. with POBU.

Polygon Number Survey Intensity Observer Date Specific Location	69B 2 DV 10/12/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DI3, SAKA		
Ferns Total	0	Exotic	: Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 5 4 3 0 0 40 0 60 0 6 6 (ALFALFA FIELD 5 2 3 3 3 1	Primary I MESA Seconda SIAL2, Ci Noxious	Exotic ry Exotic EDI3, SAKA, B Exotic	RTE, POBU
Plant Associations		Percent	Pattern	Rank
 former agricultural field a 		100 0	Matrix	1 0 0

3. Notes: 0 0 69B is an abandoned farm field (pic) very weedy in places w/ SAKA, SIAL2, CEDI3

Polygon Number Survey Intensity Observer Date Specific Location	7 2 DV 6/27/06 N				
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Ferns Evergreen Ferns Deciduous Exotics Total Exotics Perennial Exotics Perennial Exotics Perennial Exotics Perennial Exotics Perennial Exotics Perennial Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture	4 4 PIPO, PSME 1 4 2 CEVE 0 2 4 CARU 4 2 CALY, PHLI 2 0 0 0 0 2 0 0 2 0 0 2 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0	Exotic Primary I POBU Seconda BRTE Noxious	Species Exotic ry Exotic Exotic	5	
Livestock Development Wildlife Recreation Severity Recreation Type	3 2 3 3 3				
Plant Associations	;	Percent	Pattern		
		100	Matrix	Kank	°
1. PIPU/GARU (NAGAN) 2.		100	Wathx		2
3.		0			n 0
Notes:	Exotics: 1% POBL	J, trace BRTE.	Polygon burne	ed in '05. r	no

Exotics: 1% POBU, trace BRTE. Polygon burned in '05, mostly cool under burn

Polygon Number Survey Intensity Observer Date Specific Location	70 1 DV 6/12/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual	5 2 PIPO 0 2 2 2 PUTR2, RICE, ERH 2 2 5 AGCR, BRTE 5 3 3 LUSE4 3 2 0	HE2		
Ferns Total	0	Exoti	c Species	5
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 5 4 3 0 0 0 20 0 80 2 2 6 2 2 2 1 1	Primary BRTE Seconda AGCR Noxious	Exotic ary Exotic Exotic	
Plant Associations		Percent	Pattern	Rank
 former agricultural field PIPO/PUTR2/PSSP6 (LILL 3. 	YBRIDGE)	90 10 0	Clumped, Clumped,	MAIIN

Notes:

0 Appears to be former field. AGCR is most abundant plant.

Polygon Number Survey Intensity Observer Date Specific Location	71 1 DV 6/12/06		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	5 4 PIPO 2 4 2 4 PUTR2 4 2 4 CARU, POBU 4 1 2 CARU, POBU 4 1 2 LUSE4 2 0		
Ferns Total	0	Exotic	c Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 2 1 0 0 0 10 0 90 2 2 0 2 2 3 2 1 1 1 1	EXOTIC Primary AGRE Seconda POBU Noxious	C Species Exotic Try Exotic Exotic

Percent	Pattern	
		Rank
100	Matrix	1
0		0
0		0
	100 0 0	100 Matrix 0 0

Polygon Number Survey Intensity Observer Date Specific Location	72 1 DV 6/12/06		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Forbs Annual	5 4 PIPO 1 4 2 2 SYAL, PUTR2 2 2 4 CARU, PSSP6 4 0 4 BASA3, PHLI 4 2 0		
Ferns Total	U	Exotic	Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 1 0 1 0 0 15 0 85 2 2 0 3 2 2 3 3 1	Primary E POBU Secondar Noxious	Exotic Exotic Exotic
Plant Associations		Percent	Pattern

	1 ci cent	1 atter n	
			Rank
1. PIPO/CARU-PSSP6 (LILLYBRIDGE)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	73 1 DV 10/12/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Eorbs Annual	4 4 PIPO 1 4 2 2 PUTR2, SYAL 2 0 4 PSSP6, BRTE 4 2 4 BASA3, HEUN, SIA 2	AL2		
Ferns Total	0	E ti .	0	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 0 2 2 3 5 0 90 2 2 0 4 5 3 3 3 3 1	Primary I BRTE Seconda SIAL2 Noxious	Exotic ry Exotic Exotic	
Plant Associations		Percent	Pattern	Rank
 PIPO/PUTR2/PSSP6 (LILI 3. 	YBRIDGE)	100 0 0	linear	

2.	
3.	
Notes:	PHOTOS

Polygon Number Survey Intensity Observer Date Specific Location	74 1 DV 6/12/06		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Forbs Annual	5 3 PIPO 0 3 2 3 PUTR2 3 2 4 CARU, PSSP6 4 0 3 HEUN 3 1 0		
Ferns Total	U	Exotic	: Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 1 0 1 2 0 13 1 84 2 2 0 2 2 3 3 3 1	Primary I POBU Seconda Noxious	Exotic ry Exotic Exotic
Plant Associations		Percent	Pattern

	rereent	1 attern	
			Rank
1. PIPO/PUTR2/PSSP6 (LILLYBRIDGE)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			
Polygon Number Survey Intensity Observer Date Specific Location	75 2 DV 6/12/06		
---	---	---------------------------------------	-------------------------------
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Forbs Total	5 4 PIPO 0 4 2 3 PUTR2, AMAL2 3 2 4 PSSP6, POBU 4 1 4 BASA3 4 1 0		
		Exotic	: Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 1 0 1 0 20 22 78 2 2 0 3 5 3 3 1	Primary POBU Seconda Noxious	Exotic ry Exotic Exotic
Plant Associations		Percent	Pattern

	1 01 00 110		
			Rank
1. PIPO/PUTR2/PSSP6 (LILLYBRIDGE)	100	Matrix	3
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	75B 1 DV 10/12/06				
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Eachs Total	5 4 POTR5 0 4 2 4 SYAL 4 2 2 2 2 0 3				
Dominant Forbs	GABO2				
Forbs Perennial	3				
Forbs Annual	0				
Ferns Total	0	Evetie	0		
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 1 0 1 0 20 0 80 0 22 0 4 5 3 3 3 1	Primary I VETH Seconda Noxious	Exotic ry Exotic Exotic	3	
Diant Accordintions		D	D //		
Plant Associations	;	Percent	Pattern	Darl	
	IK)	100	Matrix	капк	s
1. PUTRO/STAL (KUVALCH	in)	100	watrix		ა ი
2. 3		Ű			0
J. Notes	Center of polygo	U U n is a woodland u	nond in spring	drving in	U c
	Server or porygo		pond in opining	, arying in	5

Center of polygon is a woodland pond in spring, drying in summer.

Polygon Number Survey Intensity Observer Date Specific Location	76 2 DV 6/12/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	5 3 PIPO 0 3 3 3 PUTR2 2 3 4 FEID, PSSP6, POBU 4 1 3 BASA3, CANU 3 2	J		
Ferns Total	0	Exotic	: Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 1 0 1 0 20 1 79 2 2 0 3 3 3 3 1	Primary I POBU Seconda Noxious	Exotic ry Exotic Exotic	
Plant Associations	P	ercent	Pattern	Ra
1. PIPO/PUTR2/FEID (KAGA	AN)	100	Matrix	

rereent	1 autor n	
		Rank
100	Matrix	3
0		0
0		0
	100 0 0	100 Matrix 0 0

Polygon Number Survey Intensity Observer Date Specific Location	76B 1 DV 6/12/06 New poly - locate	just below the #	₽76 on ortho.	
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	5 4 POTR5 0 4 2 4 SYAL 4 2 1 aquatic unknown i 1 0 3 3	d + POPR		
Ferns Total	0			
		Exotic	: Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Primary I Seconda Noxious	Exotic ry Exotic Exotic	
Plant Associations	i	Percent	Pattern	
 POTR5/SYAL (KOVALCH . . 	IK)	100 0 0	Matrix	Kank

Notes:

0 0 40" + DBH PIPO stump. Nearly 1/2 of site is vernal wooded pond, aspens in water, tadpoles & many aquatic inverts.

Polygon Number Survey Intensity Observer Date Specific Location	77 1 DV 6/26/06 N				
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	6 4 PIPO, POTR5 0 4 2 2 SYAL 4 2 2 PSSP6 2 0 3 BASA3, HEUN 3 0				
Ferns Total	0	_		•	
	0	Exc	otic	Species	
Ferns Deciduous	0	Prim	arv E	xotic	
ExoticsTotal	0		•		
Exotics Perennial	0	Seco	ondar	y Exotic	
Exotics Annual	0		_		
Water	•	Noxi	ous I	Exotic	
Rock Outcrop	0				
Gravel	0				
Moss Lichon	0				
l ittor	100				
	2				
Stand Age	2				
Agriculture	0				
Livestock	5				
Development	2				
Wildlife	3				
Recreation Severity	3				
Recreation Type	3				
Hydrology	1				
Plant Associations		Percent		Pattern	Rank
1 PIPO/SYAL (KAGANI)			an	Large natch	IXAIIK
2. POTR5/SYAL (KOVALCH	IK)		10	Small patch	

2.	PUTR5/STAL (KOVALCHIK)
3.	

Notes:

Polygon Number Survey Intensity Observer Date Specific Location	77B 1 DV 6/26/06 N			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	6 2 PIPO, POTR5 0 2 0 2 SYAL 2 0 6 PHAR3, BRTE 5 4 3 CADR 3 1			
rems total	0	Exotic	Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 6 5 4 0 0 0 0 0 0 100 0 2 0 4 2 3 3 3 1	Primary E PHAR3 Secondar BRTE Noxious CADR	- Exotic Exotic	
Plant Associations	i	Percent	Pattern	Rank
1. disturbed wetland		100	Matrix	

		Канк
1. disturbed wetland	100 Matrix	1
2.	0	0
3.	0	0
Notes:	Other exotics present: POPR, VETH. Vernal we have loved it to death.	etland swale; cows

Polygon Number Survey Intensity Observer Date Specific Location	78 1 PM 5/29/2006 C, Center east quarte	r.		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall	5 4 PIPO 3 4 2 4 PUTR2 2			
< 1.5' tall Graminoids Total	3			
Dominant Graminoids	4 PSSP6 BRTF			
Graminoids Perennial	4			
Graminoids Annual	3			
Forbs Total				
Forbs Perennial	3	J, ANDN		
Forbs Annual	2			
Ferns Total	0			
		Exotic	c Species	;
Ferns Evergreen	0			
Ferns Deciduous	0	Primary	Exotic	
EXOLICS I OTAL Exotics Perennial	3	BRIE	ry Exotic	
Exotics Annual	3	Second		
Water	·	Noxious	Exotic	
Rock Outcrop	0			
Gravel	8			
Bare Ground Moss Lichon	15			
Litter	77			
Logging	2			
Stand Age	3			
Agriculture	0			
Development	2			
Wildlife	0			
Recreation Severity	3			
Recreation Type	3			
Hydrology	0			
Plant Associations	6 P(ercent	Pattern	Rank
1. PIPO/PUTR2/PSSP6 (LIL	LYBRIDGE)	100	Matrix	2
2.	- /	0		0
3.		0		0
•• •	I a sector of the sector of the sector.	hut was as	active Thora	a a road at t

the lower as selective. There boundary. Photos taken.

Polygon Number Survey Intensity Observer Date Specific Location	79 1 PM 5/29/2006 C east			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual	4 3 PIPO 2 3 1 3 PUTR2 2 3 4 PSSP6, BRTE 3 2 3 BASA3, LOAM, Au 3 0	GHE2, DENU2	2	
Ferns Total	0	Exoti	c Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 1 2 5 10 20 0 65 2 3 0 0 0 0 0 3 3 0	Primary BRTE Second: LIDA Noxious	Exotic ary Exotic Exotic	
Plant Associations	i	Percent	Pattern	Rank
 PUTR2/PSSP6 (CRAWFC PIPO/PUTR2/PSSP6 (LILI 3. 	DRD) LYBRIDGE)	90 10 0	Matrix Small patch	

Notes:

Polygon Number Survey Intensity Observer Date Specific Location	8 1 SH 6/6/06 W					
Total Vegetation	4					
Trees Total	2					
Dominant Trees	PIPO, PSME					
emergent	0					
maincanopy	2					
Subcanopy	0					
Dominant Shrubs						
> 1 5' tall	1					
< 1.5' tall	1					
Graminoids Total	4					
Dominant Graminoids	CARU, PSSP6, BR	TE				
Graminoids Perennial	4					
Graminoids Annual	1					
Forbs Total	3					
Dominant Forbs	BASA3, CALY, LUS	SE4				
Forbs Perennial	3					
Forbs Annual	0					
Ferns Total	0	_		• •		
		Exo	tic	Species		
Ferns Evergreen	0			_		
Ferns Deciduous	0	Prima	ry E	xotic		
ExoticsTotal	1	BRTE		-		
Exotics Perennial	1	Secon	idar	y Exotic		
Water	0	Novio		Ivotic		
Rock Outeron	0	NOXIO	use			
Gravel	2					
Bare Ground	10					
Moss Lichen	4					
Litter	84					
Logging	2					
Stand Age	2					
Agriculture	0					
Livestock	0					
Development	0					
Wildlife Represention Severity	0					
Recreation Type	0					
Hydrology	1					
nyarology	·					
Plant Associations	6	Percent		Pattern		
					Rank	
1. PIPO/PUTR2/PSSP6 (LIL	LYBRIDGE)	7	5	Matrix		1
2. PIPO-PSME/PSSP6 (BO		2	5	Small patch		1
3.	,	_	0		()
Notes:	Burned. Some matu	ure OG? PS	SME	, PIPO. PSME	E-PIPO on	N-facing

portion. Transition to PIPO on gentler slope reading S.

Pol Sur Ob Dat Spe	lygon Number rvey Intensity server te ecific Location	80 1 PM 5/29/2006 C Central east qua	irter.		
Tot Tre Do em ma sub Shi Do 2 1 Gra Gra Gra Gra For Do For	al Vegetation les Total minant Trees ergent incanopy ocanopy rubs Total minant Shrubs .5' tall .5' tall aminoids Total minant Graminoids aminoids Perennial aminoids Annual rbs Total minant Forbs rbs Perennial rbs Annual	5 3 PIPO 2 2 0 4 PUTR2, RICE 3 4 4 PSSP6, BRTE 4 3 3 BASA3, ARTDRA, 3	PHLI, DERI		
Fer	ns Total	2			
			Exot	ic Species	5
Fer Fer Exc Exc Exc Wa Roc Gra	ns Evergreen ns Deciduous oticsTotal otics Perennial otics Annual ter ck Outcrop avel	0 0 3 0 3 2 10	Primary BRTE Seconc Noxiou	y Exotic lary Exotic s Exotic	
Bai Mo Litt Log Sta Ag Liv Dev Wil	re Ground ss Lichen gging nd Age riculture estock velopment dlife	25 0 63 0 3 0 0 2 0			
Ree Ree Hye	creation Severity creation Type drology	3 6 2			
ΡI	ant Associations	5	Percent	Pattern	
					Rank
1. 2.	PUTR2/PSSP6 (CRAWFC PIPO/PUTR2/PSSP6 (LIL)RD) LYBRIDGE)	80 20	Matrix Small patch	2 2 0
S. No	tes:	Photos taken. Mult	iple rec users	s, hydrology wa	s altered by road cut.

Polygon Number Survey Intensity Observer Date Specific Location	81 1 PM 5/29/2006 C East			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Beropoial	6 4 PIPO 2 4 2 4 PUTR2 2 4 PSSP6, CARU, FEID			
Graminoids Pereinnal Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Ferns Total	4 2 4 BASA3, LUSE4, PHLI 4 2 2	, Loam, an	LU2, CRAT	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel	0 0 2 0 2 0	EXOTIC Primary E BRTE Secondar Noxious I	Species ixotic y Exotic Exotic	
Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife	8 1 90 2 3 0 0 2 0			
Recreation Severity Recreation Type Hydrology Plant Associations	3 3 0 Pe	ercent	Pattern	Rank
 PIPO/PUTR2/FEID (KAGA . . Notes: 	N) PHOTOS	100 0 0	Matrix	

Polygon Number Survey Intensity Observer Date Specific Location	82 1 HS, JR 6/26/06	
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	5 3 PIPO 0 3 0 4 PUTR2 4 2 4 3 3 3 3 3	
Ferns Total	0	
Ferns Total Ferns Evergreen Ferns Deciduous Exotics Total Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 4 1 4 0 1 5 0 94 1 3 0 6 3 3 3 4 1	Exotic Species Primary Exotic BRTE Secondary Exotic SIAL2 Noxious Exotic

Percent	Pattern	
		Rank
100	Matrix	2
0		0
0		0
	100 0 0	Percent Pattern 100 Matrix 0 0

Polygon Number Survey Intensity Observer Date Specific Location	83 1 HS, JR 6/26/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual	6 3 PIPO 0 3 0 3 PUTR2, AMAL2 3 0 5 FEID, PSSP6, JUB 5 0 4 BASA3, HEUN 4 2 0	A		
Ferns Total	0	Exotic	: Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 1 0 1 0 0 2 0 98 1 3 0 6 0 3 3 3 1	Primary I BRTE Seconda Noxious	Exotic ry Exotic Exotic	
Plant Associations		Percent	Pattern	Rank
 PIPO/CARU-PSSP6 (LILL²) FEID/ERHE2 (BOURGER) 	YBRIDGE) ON)	70 30 0	Matrix Large patch	

3. Notes:

Polygon Number Survey Intensity Observer Date Specific Location	84 1 DV 6/26/06 N			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	5 3 PIPO 0 3 0 4 PUTR2 4 0 4 PSSP6, FEID 4 1 3 BASA3 3 1			
Ferns Total	0	Exo	tic Spacias	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop	0 0 1 0 1	Primar POBU Secon Noxio	ry Exotic dary Exotic us Exotic	
Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 20 0 80 2 2 0 5 5 5 2 3 3 1			
Plant Associations	i	Percent	Pattern	Ra

	1 01 00110		
			Rank
1. PIPO/PUTR2/FEID (KAGAN)	100	Matrix	3
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	85 1 PM 6/7/06 N Bottom edge of map).
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total	5 3 PIPO 2 3 1 4 PUTR2 3 3 4 3 3 3 3	
Dominant Forbs Forbs Perennial Forbs Annual	3 2 0	
Ferns Total Ferns Evergreen Ferns Deciduous Exotics Total Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	- 0 0 2 1 2 0 2 10 1 8 7 2 3 0 2 3 0 2 3 3 0 2 3 3 0	Exotic Species Primary Exotic BRTE Secondary Exotic CEDI3 Noxious Exotic

FIANT ASSOCIATIONS	Percent	Pattern	
			Rank
1. PIPO/PUTR2/PSSP6 (LILLYBRIDGE)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	86 1 SH 6/9/06 N central		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial	6 6 7 9 100, POTR5 2 6 2 4 9 9 15 7 5 9 5 9 5 0 4 8 ASA3, CALY, LUS 4	OBU, CARU E4, ACMI2	J
Forbs Annual	2		
Ferns Total	0	–	0
	•	Exoti	c Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual	0 0 4 4 0	Primary POBU Seconda	Exotic ary Exotic
Water Book Outeren	0	Noxious	Exotic
Gravel	4		
Bare Ground	20		
Moss Lichen	3		
Litter	73		
Logging Stond Age	2		
Agriculture	2		
Livestock	0		
Development	6 (trash, tires, deer		
Wildlife	0		
Recreation Severity	2		
Hvdrology	+ 1		
	-		
Plant Associations]	Percent	Pattern

				Rank
1. PIPO/CARU-PS	SP6 (LILLYBRIDGE)	100	Matrix	2
2.		0		0
3.		0		0
Notes:	Dense PIPO stand, mostly young. Road PIPO.	small sub or through poly	shrub layer. Soi gon. CARU in c	me older trees, older, open grove of

Polygon Number Survey Intensity Observer Date Specific Location	87 1 HS, JR 6/26/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total	5 0 0 0 0 0 0 0 0 0 0			
Dominant Forbs Forbs Perennial Forbs Annual Ferns Total	0 0 0	Exoti	c Snecies	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual	0 0 5 0 0	Primary BRTE Seconda POBU	Exotic ary Exotic	,
Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type	0 0 0 0	NOXIOUS	EXOTIC	
Hydrology Plant Association	IS	Percent	Pattern	T
1. former agricultural field		100	Matrix	F

Plant Association	S Percen	t	Pattern		
				Rank	
1. former agricultural field		100	Matrix		1
2.		0		()
3.		0		()
Notes:	old agricultural field				

Polygon Number Survey Intensity Observer Date Specific Location	89 1 HS, JR 6/26/06 western boundary	near Pearrygin	Lake (overloo	king 88)
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	5 1 PIPO 0 1 0 4 PUTR2 4 2 5 PSSP6, FEID 5 1 4 BASA3 3 2			
Ferns Total	0	Exotic	Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 1 3 5 0 91 0 0 6 2 3, 7 (birds) 3 1	Primary I POBU Seconda BRTE Noxious	Exotic ry Exotic Exotic	
Plant Associations		Percent	Pattern	Rank

Plant Associations	Percent	Pattern		
			Rank	
1. PUTR2/PSSP6 (CRAWFORD)	60	Matrix		2
2. PUTR2/FEID (CRAWFORD)	40	Large patch		2
3.	0			C
Notes:				

Polygon Number Survey Intensity Observer Date Specific Location	9 1 SH 6/6/06 W - N-facing slope.				
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Ferns Total	5 3 PSME, PIPO 0 3 0 1 0 1 3 PSSP6 3 0 4 BASA3, CALY, LUS 4 0 0	E4	Crassia		
Forne Evergroon	0	Exotic	c Species	•	
Ferns Deciduous	0	Primary	Exotic		
ExoticsTotal	0	Secondo	m. Exatia		
Exotics Annual	0	Seconda	Iry Exolic		
Water		Noxious	Exotic		
Rock Outcrop	3				
Bare Ground	4 20				
Moss Lichen	0				
Litter	73				
Logging	2				
Stand Age	3				
Livestock	0				
Development	0				
Wildlife	0				
Recreation Severity	0				
Hydrology	1				
Plant Accordiations		D (D //		
Fidili ASSOCIATIONS		Percent	Pattern	Dank	
		100	Matrix	канк	0
2.		001	Mauix		0
3.		0			0
Notes:	Burned - PUTR2 bu	rnt, dead. It v	vas PSME-PIF	O/PUTR2	2/P

Burned - PUTR2 burnt, dead. It was PSME-PIPO/PUTR2/PSSP6. Larger PIPO, PSME survived, regens didn't

Polygon Number Survey Intensity Observer Date Specific Location	90 2 DV 6/12/06		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Earbs Annual	4 2 PIPO 0 2 0 4 PUTR2 4 PSSP6, POBU, BR 4 2 3 BASA3, PHLI 3 2	TE	
Ferns Total	0	Evot	ic Spacias
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 1 0 1 0 0 35 0 65 2 2 0 3 3 3 3 3 1	Primar POBU Second BRTE Noxiou	y Exotic dary Exotic is Exotic
Plant Associations		Percent	Pattern

	rereent	1 atter n	
			Rank
1. PIPO/PUTR2/PSSP6 (LILLYBRIDGE)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	91 1 DV 6/26/06 N		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	6 0 0 2 PUTR2, SYAL 2 5 5 POPR, STOC2, BF 4 3 2 ACMI2 2 0	RTE, POBI	J
Ferns Total	0	Exc	tic Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 3 0 3 0 0 2 0 9 8 0 0 9 8 0 0 0 4 0 3 3 3 1	Prima POBI Seco BRTE Noxia CEDI	ary Exotic Indary Exotic E ous Exotic 3
Plant Associations		Percent	Pattern

Plant Associations	Percent	Pattern	
			Rank
1. disturbed meadow	100	Matrix	1
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	92 2 DV 6/26/06 N			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	4 0 0 0 4 PUTR2 4 2 4 PSSP6, POBU 4 2 3 BASA3, PHLI 3 2			
Ferns Total	0	Exotic	c Species	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 1 1 1 1 3 6 21 0 70 0 0 0 5 0 3 3 3 1	Primary LIDA Seconda POBU Noxious	Exotic ary Exotic Exotic	
Plant Associations		Percent	Pattern	D

	rereent	1 atter n	
			Rank
1. PUTR2/PSSP6 (CRAWFORD)	100	Matrix	3
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	93 1 DV 6/26/06 N		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Perennial Forbs Annual	6 1 POTR5 0 1 0 2 SYAL, ERHE2 1 2 5 STCO4, STOC2, POBU 5 2 2 BASA3, ACMI2, CERE 2 2	J, BRTE 6, GADI2, C	CRTO4
Ferns Total	0	Exotic	Snacias
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Primary E POBU Secondar BRTE Noxious E CERE6	xotic y Exotic Exotic
Plant Associations	Per	cent	Pattern

	rercent	1 attern	
			Rank
1. disturbed meadow	100	Matrix	1
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	94 1 PM 6/7/06 N Center bottom			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual Forbs Annual	5 0 0 0 4 PUTR2 3 3 4 PSSP6, BRTE 3 2 3 LUSE4, BASA3 3 2 0			
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 1 2 0 10 10 10 10 0 80 0 0 0 0 2 2 3 4 1	Exotic SpeciesPrimary ExoticBRTESecondary ExoticCEDI3Noxious ExoticLIDA		
Plant Associations 1. PUTR2/PSSP6 (CRAWFC) DRD)	Percent	Pattern Matrix	Rank
2.		0		

3. Notes: 0 photos 2-3 & 7

Polygon Number Survey Intensity Observer Date Specific Location	95 2 DV 10/12/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	5 0 0 0 4 PUTR2, ERHE2 4 2 4 PSSP6, BRTE 4 2 3 BASA3 3 2			
Ferns Total	0	Eve	lia Croaica	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology Plant Associations	0 0 2 2 2 3 40 0 555 0 0 0 0 5 5 2 3 3 1	Exot Primar LIDA Secon BRTE Noxiou	tic Species ry Exotic dary Exotic us Exotic Pattern	
Fiant ASSUCIATIONS		Percent	Pattern	R

	rereent	1 atter fi	
			Rank
1. PUTR2/PSSP6 (CRAWFORD)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			

Polygon Number Survey Intensity Observer Date Specific Location	97 1 PM 6/7/06 N Center bottom					
Total Vegetation Trees Total Dominant Trees	5 0					
emergent	0					
maincanopy	0					
subcanopy	0					
Shrubs Total	3					
Dominant Shrubs	PUTR2, ARTR2					
> 1.5' tall	3					
< 1.5' tall	2					
Graminoids Total	4					
Dominant Graminoids	PSSP6, BRTE					
Graminoids Perennial	4					
Graminoids Annual	2					
Forbs Total	4					
Dominant Forbs	LUSE4, BASA3, LE	EVIP, PH	ILI			
Forbs Perennial	4					
Forbs Annual	2					
Ferris Total	0	Γ.	- 41 -	0		
		EX	otic	; species		
Ferns Evergreen	0		_			
Ferns Deciduous	0	Prir	nary E	Exotic		
ExoticsTotal	2	BR	ΓE .			
Exotics Perennial	1	Sec	onda	ry Exotic		
Exotics Annual	2	LID	A	Fuctio		
Water Book Outorop	0		cious	EXOLIC		
Gravel	2	UEL	515			
Bare Ground	2					
Moss Lichen	0					
Litter	88					
Logging	0					
Stand Age	0					
Agriculture	0					
Livestock	0					
Development	2					
Wildlife	2					
Recreation Severity	3					
Recreation Type	4					
Hydrology	0					
Plant Associations	;	Percent	t	Pattern		
					Rank	
1. PUTR2/PSSP6 (CRAWFO	ORD)		80	Matrix		2
2. ARTR2/PSSP6 (CRAWFO	ORD)		20	Small patch		2
3.			0			0
Notes:	Extensive area with exotics.	n only na	tive gr	rass and herbs	, no shru	bs and few

Polygon Number Survey Intensity Observer Date Specific Location	98 2 DV, PM 10/12/06			
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual	5 1 POTR5, PIPO 0 1 0 4 PUTR2, ERHE2, ERH 2 4 4 PSSP6 4 2 3 BASA3 3 2	VII, PRVI, AM	IAL2, ARTR2	
Ferns Total	0	Fratia	Creation	
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 1 2 5 10 20 2 63 0 0 0 5 5 2 3 3 1	Primary E BRTE, PC Secondar LIDA Noxious I CEDI3	Species Exotic PBU Ty Exotic Exotic	
Plant Associations	6 P	ercent	Pattern	Rank
 PUTR2/PSSP6 (CRAWFC . .<th>)RD)</th><th>100 0 0</th><th>Matrix</th><th>ISAIIK</th>)RD)	100 0 0	Matrix	ISAIIK
Notes:	Peter's photos from 6/7/06 #s 9-12			

Polygon Number Survey Intensity Observer Date Specific Location	99 1 DV 11/8/06		
Total Vegetation Trees Total Dominant Trees emergent maincanopy subcanopy Shrubs Total Dominant Shrubs > 1.5' tall < 1.5' tall Graminoids Total Dominant Graminoids Graminoids Perennial Graminoids Annual Forbs Total Dominant Forbs Forbs Perennial Forbs Annual Forbs Annual	5 2 PIPO 0 2 0 3 PUTR2, ERHE2 3 2 4 PSSP6, BRTE 4 2 2 LIDA, BASA3 2 1		
	0	Ex	otic Species
Ferns Evergreen Ferns Deciduous ExoticsTotal Exotics Perennial Exotics Annual Water Rock Outcrop Gravel Bare Ground Moss Lichen Litter Logging Stand Age Agriculture Livestock Development Wildlife Recreation Severity Recreation Type Hydrology	0 0 2 2 2 2 5 5 5 30 0 60 0 2 0 4 0 3 3 1	Prir LID. Sec BR	nary Exotic A condary Exotic ΓΕ cious Exotic
Plant Associations		Percent	Pattern

Fiant Associations	Percent	Pattern	
			Rank
1. PIPO/PUTR2/PSSP6 (LILLYBRIDGE)	100	Matrix	2
2.	0		0
3.	0		0
Notes:			