

Provisional Report
Rare Plant and Vegetation Survey of
Riverside State Park



Pacific Biodiversity Institute

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Executive Summary

Pacific Biodiversity Institute (PBI) conducted a rare plant and vegetation survey of Riverside State Park (RSP) for the Washington State Parks and Recreation Commission (WSPRC). RSP is located in Spokane County, Washington. A large portion of the park is located within the City of Spokane. RSP extends along both sides of the Spokane River and includes upland areas on the basalt plateau above the river terraces. The park also includes the lower portion of the Little Spokane River and adjacent uplands. The park contains numerous trails, campgrounds and other recreational facilities. The park receives a tremendous amount of recreational use from the nearby population.

The ownership of the park in the updated GIS layer provide by WSPRC in June was 8821 acres. Substantial acreage was added to the park ownership layer in this updated ownership layer. The total area of both the updated and the prior ownership layers combined is 9393 acres. The new boundary deleted 572 acres from the old ownership layer. The size of the original mapped ownership was 7272 acres. For reasons detailed in Appendix A of this report, the significant change in size of the park and ownership boundaries during the survey period has required us to issue a provisional report. Significant work needs to be completed by the WSPRC resolving the ownership boundary issues we discuss before a comprehensive rare plant and vegetation survey can be finished for this park.

We mapped 352 vegetation community polygons within RSP. These polygons were categorized into 32 specific plant associations or one of approximately 8 generalized land cover types.

We found three rare plant species at Riverside SP, prairie cordgrass (*Spartina pectinata* Bosc ex Link), gray stickseed (*Hackelia cinerea* (Piper) I.M. Johnst.) and small-leaf pussytoes (*Antennaria parvifolia* Nutt.). All of these are state-listed sensitive plants. All of these species have been sighted before at RSP, but our surveys located significant new populations within the park. Descriptions of the sightings and recommendations are given in this report.

We identified 410 vascular plant taxa to the rank species at RSP. Of these, 120 were non-native species (29%). RSP has more noxious weeds than any other State Park we have surveyed since 2004. We found 18 Class B weeds and 10 Class C weeds. Recommendations are given to survey for Class A and B noxious weeds on a regular basis.

The ecological condition of RSP varies from developed and poor to excellent. There are many restoration opportunities in the park. The most urgent restoration need is to reintroduce a natural fire regime (through use of prescribed fire) to the ponderosa pine forests of the park, which are currently choked with many small seedlings and saplings. Also, a key restoration objective will be to continue an aggressive noxious weed monitoring and management plan.

Our primary management recommendation for the park is to resolve ownership boundary issues for the park. This will require a concerted effort. Some of this work can be done through GIS, remote sensing and cooperation with assessors' offices at the City of Spokane and Spokane Country. A proper survey is needed for the entire property.

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Introduction

RSP was surveyed for rare plant occurrences, vegetation communities and characteristics, noxious weeds and ecological condition by PBI under contract with WSPRC. This report summarizes the activities and findings of the contracted work.

This park is located in Spokane County, Washington. A large amount of the park is located within the City of Spokane. RSP extends along both sides of the Spokane River and includes upland areas on the basalt plateau above the river terraces. The park also includes the lower portion of the Little Spokane River and adjacent uplands. The park contains numerous trails, campgrounds and other recreational facilities. Since the park is in Spokane, it receives a tremendous amount of recreational use from the nearby population. It is also a park of statewide and national significance and receives visitors from around the world.

The park is mostly covered by ponderosa pine forests, but also has significant riparian forests, wetlands, rock outcrops, cliffs, talus slopes and other non-forested communities. There are known rare plant populations within the park.

Survey Conditions, Survey Routes and Property Boundary Issues

The project area was surveyed repeatedly during the spring, summer of 2008. Table 1 and Figure 1 document these surveys. Most parts of the park were accessible by foot. Some areas were accessible by bicycle or by car. Some of the riparian areas and wetlands along the Little Spokane River contain very dense vegetation, swampy areas, and standing water making travel exceedingly difficult. These areas were surveyed from accessible locations and short forays into the interior. RSP contains considerable basalt cliff habitat, which was only surveyed from accessible locations.

Table 1. Schedule of 2008 field surveys for RSP.

Dates (2008)	Field Surveyor
April 4-6	Morrison, O'Quinn
May (3 days)	O'Quinn
June (5 days)	O'Quinn
July 11-17	Rhodes, O'Quinn, Hackenburg, Monetta
August 4-8	Rhodes, O'Quinn, Hackenburg, Monetta
August 26-29	Wooten, Morrison, O'Quinn
August 30	Morrison
September 8	Wooten

The GIS property boundary for RSP was changed by State Park Staff during the course of the project. PBI started work using one property boundary, noticed many ownership issues with that boundary in our fieldwork, and then received a revised GIS property boundary for RSP from State Park Staff. The new boundary added considerable additional acreage to the project area. We were not able to survey much of this additional acreage within our contracted budget. Working with this new ownership boundary in the field, PBI staff encountered additional ownership issues that were not resolved by the new boundary. The ownership boundary issues that we encountered created a situation where PBI staff had continual uncertainty about land ownership and park boundaries. This situation had a negative impact on the project. As a result of the unsurveyed areas and continuing uncertainty about the actual ownership boundaries of RSP, we consider this report to be provisional. The property boundary issues are discussed in more detail in Appendix A. Significant work needs to be completed by the WSPRC resolving ownership issues. Then additional rare plant and vegetation surveys need to be conducted before a comprehensive assessment of the park is available.

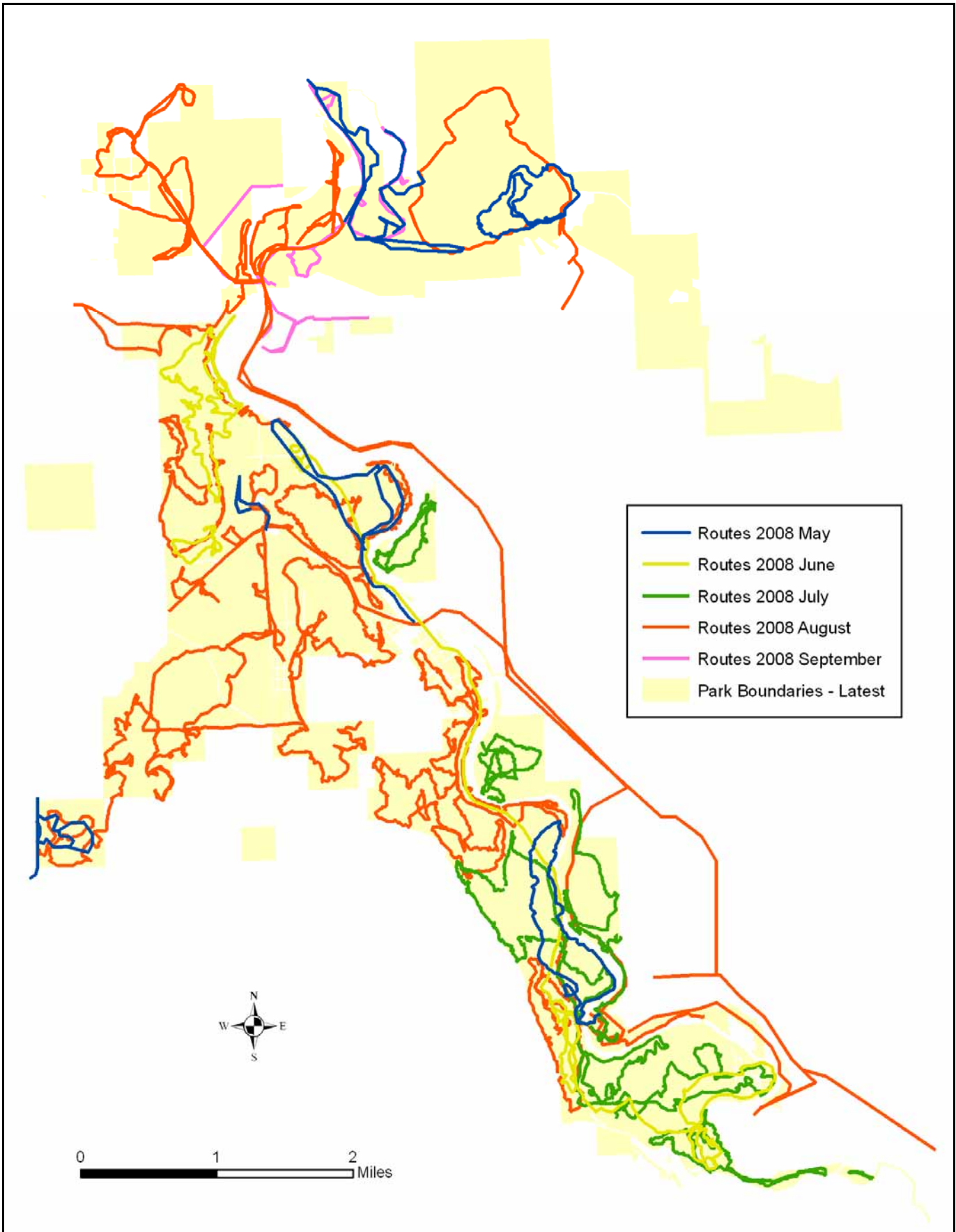


Figure 1. Survey Routes for rare plant and vegetation surveys.

Vegetation Communities

Methods

The first step of this project was to assemble and review the existing data and literature available about RSP and its vegetation characteristics. Maps and remotely sensed data were assembled and rare plant sightings were located on these maps. Initially, we used aerial photography and satellite imagery to digitize plant communities or mosaics of plant communities in a GIS environment. We reviewed orthorectified aerial photography and recent satellite images for discernable vegetation or landform patterns. Topographic maps and digital elevation models (DEMs) were also employed to assist the process of vegetation community delineation. Vegetation polygons were drawn manually into GIS layer based on visual assessment of aerial photos and topographic information. ASTER satellite imagery was also used to help differentiate vegetation types. The vegetation polygon data was edited and stored in an ESRI personal geodatabase. Vegetation polygons represent specific plant communities or unique mosaics of plant communities. They may also represent a significant variation in the ecological condition within a plant community.

The RSP property was visited numerous times during the field season to detect both early and late-blooming plant species. The first visit was primarily a reconnaissance of the area to create a basic plant list and conduct initial rare plant surveys. The later visits added more species to the plant list and vegetation polygon surveys were completed. We assigned a vegetation community type (usually an established plant association name) and other vegetation attributes to each polygon. Fieldwork concluded with an ecological assessment of the polygons delineated within the parks assigning each vegetation community within a polygon to an ecological condition rank (Appendix B). Vegetation data was subsequently consolidated and analyzed in our office. Each community was assigned a global conservation status rank (Appendix C) based on information provided by NatureServe (www.natureserve.org).

Plant community data was recorded on a form initially developed by WSPRC (Appendix D). Recorded data included a wide variety of information about the vegetation composition, environmental characteristics, disturbance history and other notes for each polygon. Each polygon was rated for its overall ecological condition. Vegetation community and land cover classifications were assigned using information and keys from standard literature sources cited in the Reference section of this document (Bourgeron and Engelking 1994, Clausnitzer and Zamora 1987, Cooper et al 1987, Crawford 1999, Crawford 2003, Daubenmire 1970, Daubenmire 1984, Kagan et al 2000, Kovalchik and Clausnitzer 2004, Lillybridge et al 1995, NatureServe 2008, Williams et al 1995). Later, in our office, we used the NatureServe website, www.natureserve.org, to evaluate existing plant community names and descriptions and compare them to the vegetation conditions we encountered in the field. In some cases, the vegetation community descriptions in existing studies were not adequate in describing distinctive vegetation associations in the project area. In these cases, new land cover type or plant association names and descriptions were created by PBI. Most polygons contained more than one plant community type; therefore, we often assigned a secondary or tertiary vegetation community type (again often a plant association name) to each polygon.

Survey personnel had printed and digital aerial imagery available during field visits. The latter was accessed in the field using ArcPad software (ESRI 2007) running on pocket PC, GPS enabled devices. This allowed us to view the data in the field, to evaluate our polygon delineations, and to make changes if necessary. It also allowed all survey routes to be mapped on a GPS while performing the vegetation surveys. Data could be viewed and edited directly from field locations, resulting in a field-verified vegetation map.

Once gathered, the field data were edited and entered into a Microsoft Access database and linked to the vegetation polygon geodatabase. Further refinements and editing of the vegetation data stored in the personal geodatabase were made based on information collected in the field with ArcPad.

Historical Vegetation

The historical vegetation of RSP consisted of ponderosa pine forests, Douglas-fir forests, riparian forests, shrublands, and wetlands. There have been repeated wildfires that have swept over portions of the park during the last century. Many areas have burned during the last 30 years. There was one prior attempt to map plant communities in the park (Figure 2) in 1997. The date of the orthophoto base is unknown, but it is earlier than 1997. We found this earlier vegetation map interesting, but were not able to rely on it for much information. Our observations in the field often did not agree with the plant communities or condition classes assigned to various parts of the park. This was due to several possible factors:

- Significant disturbances and subsequent vegetation changes (wildfires, development and other human disturbances) have occurred since this map was created
- Differences and advances in survey methods, techniques, information sources and approaches
- Differences in interpretation of vegetation composition, structure and condition
- Differences in approach to plant community classification

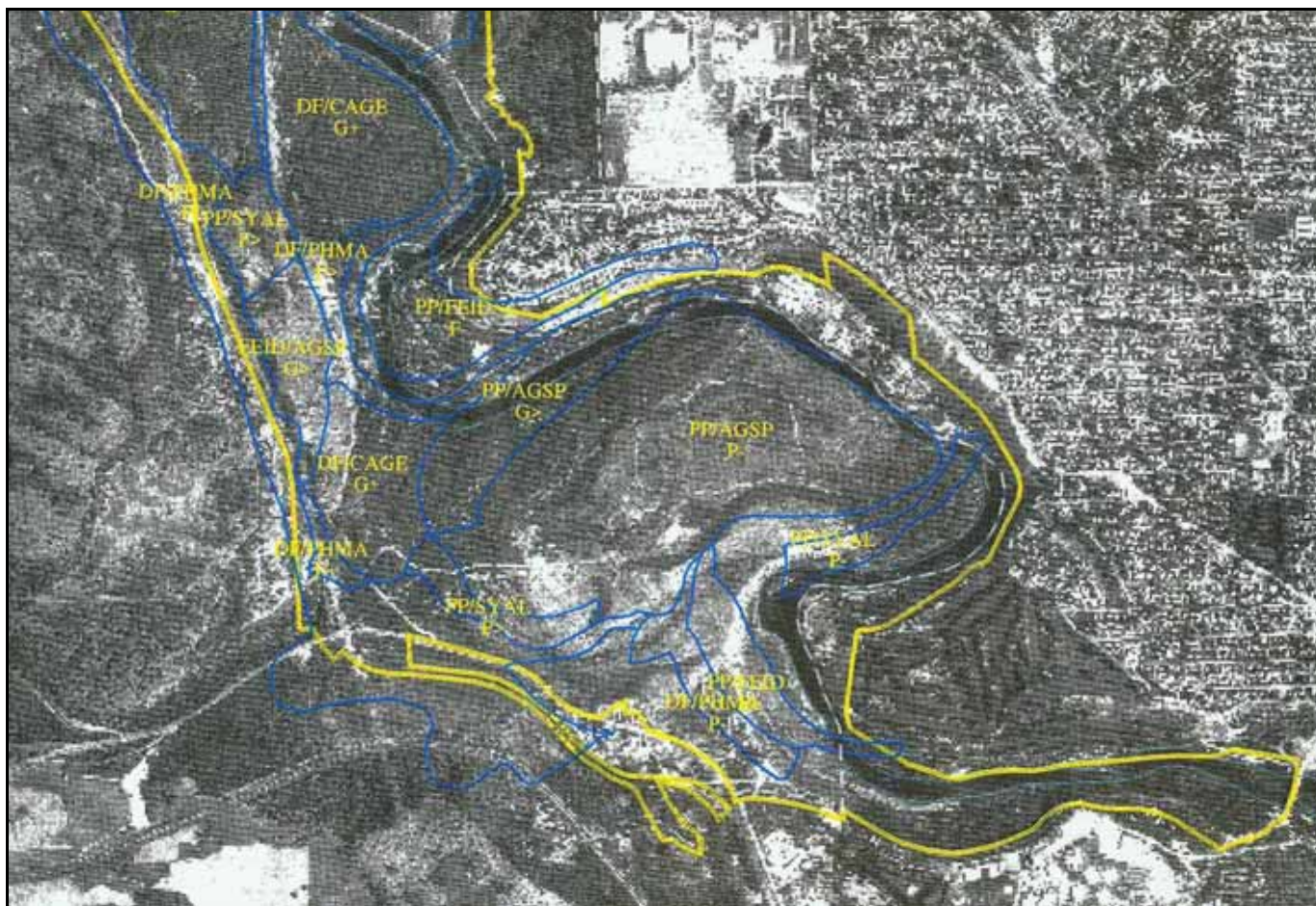


Figure 2. Example from vegetation map produced in 1997 for RSP.

Results

Vegetation Community Mapping

As stated earlier in this report, the following results must be considered provisional, due to the ownership boundary issues previously discussed and their impact on our vegetation survey. We mapped a total of 352 vegetation community polygons (Figure 3). These polygons were categorized into 32 specific plant associations or one of approximately 8 generalized land cover types. Figure 4 shows a map of RSP classified into the primary land cover types attributed to 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. Appendix E lists the attributes for each polygon in the project area. Some of these polygons are small slivers or odd polygons created by the new ownership boundary layer.

The plant associations are listed in Table 2 and described in this section of the document.

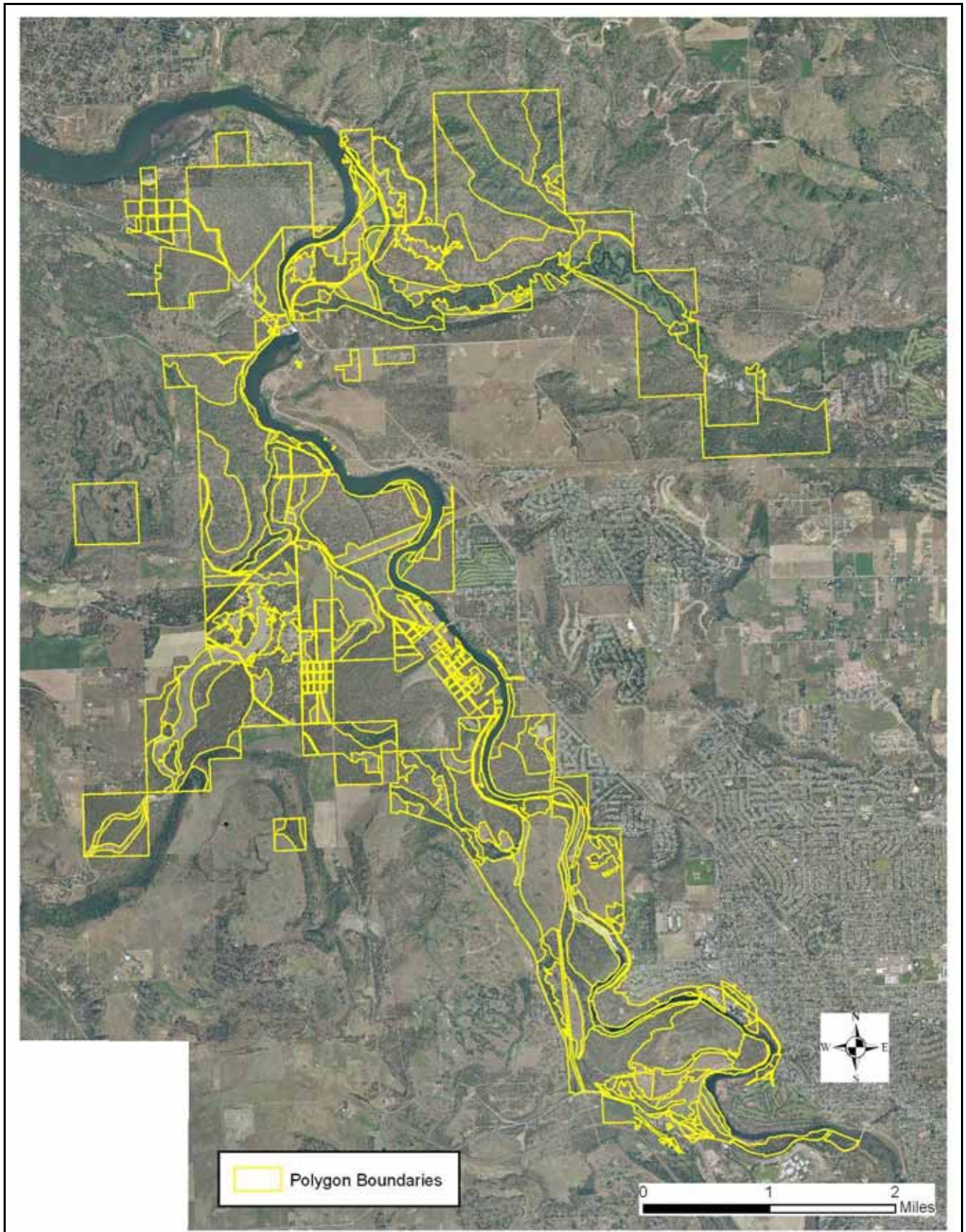


Figure 3. Map of RSP showing vegetation community polygons laid onto an aerial photo of the park.

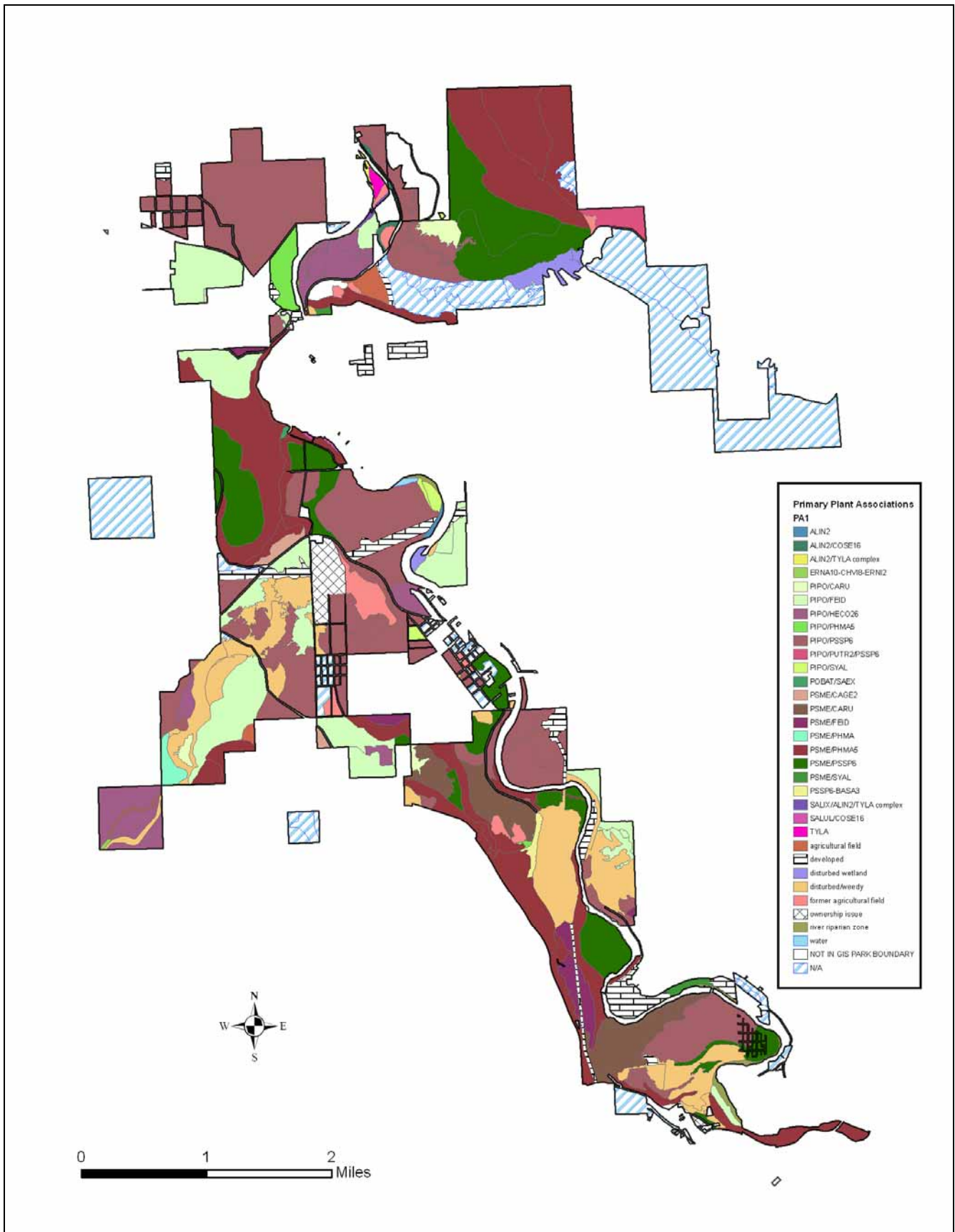


Figure 4. Primary vegetation communities and land cover types attributed to each vegetation polygon. (NA = Not Assessed.)

Table 2. Plant associations and communities reference table for RSP. Asterisked records refer to secondary plant communities. Note that the “~” under Global Status represents the rank estimated by PBI.

Code	Common Name	Scientific Name	Authority	Global Status
PIPO/SYAL	ponderosa pine / snowberry	<i>Pinus ponderosa</i> / <i>Symphoricarpos albus</i>	Daubenmire and Daubenmire 1984	G4
PIPO/ERNA10	ponderosa pine / rubber rabbitbrush	<i>Pinus ponderosa</i> / <i>Ericameria nauseosa</i>	Undescribed	G5?
PIPO/PUTR/PSSP6	ponderosa pine / bitterbrush / bluebunch wheatgrass	<i>Pinus ponderosa</i> / <i>Purshia tridentata</i> / <i>Pseudoroegneria spicata</i>	Williams and others 1995	G3
PIPO/PSSP6	ponderosa pine / bluebunch wheatgrass	<i>Pinus ponderosa</i> / <i>Pseudoroegneria spicata</i>	Daubenmire and Daubenmire 1984	G4
PIPO/FEID	ponderosa pine / Idaho fescue	<i>Pinus ponderosa</i> / <i>Festuca idahoensis</i>	Bourgeron and Engelking 1994	G4
PIPO/FEID-PSSP6	ponderosa pine / bluebunch wheatgrass	<i>Pinus ponderosa</i> / <i>Festuca idahoensis</i> - <i>udoroegneria spicata</i>	Undescribed	?
PIPO/PHMA5	ponderosa pine / Pacific ninebark	<i>Pinus ponderosa</i> / <i>Physocarpus malvaceus</i>	Williams and others 1995	G2
PIPO/CARU	ponderosa pine / pinegrass	<i>Pinus ponderosa</i> / <i>Calamagrostis rubescens</i>	Bourgeron and Engelking 1994	G2
PIPO/HECO26	ponderosa pine / needle-and-thread	<i>Pinus ponderosa</i> / <i>Hesperostipa comata</i>	Bourgeron and Engelking 1994	G1
PIPO/CARO5	ponderosa pine / Ross' sedge	<i>Pinus ponderosa</i> / <i>Carex rossii</i>	Undescribed	?
PIPO-PSME/PSSP6	ponderosa pine – Douglas fir / bluebunch wheatgrass	<i>Pinus ponderosa</i> – <i>Pseudotsuga menziesii</i> / <i>Pseudoroegneria spicata</i>	Bourgeron and Engelking 1994	G3
PSME/PHMA5	Douglas fir / Pacific ninebark	<i>Pseudotsuga menziesii</i> / <i>Physocarpus malvaceus</i>	Williams and others 1995	G5
PSME/SYAL	Douglas fir / snowberry	<i>Pseudotsuga menziesii</i> / <i>Symphoricarpos albus</i>	Daubenmire and Daubenmire 1984	G5
PSME/SPBE	Douglas fir / birch-leaf spiraea	<i>Pseudotsuga menziesii</i> / <i>Spiraea betulifolia</i>	Lillybridge 1995; Williams and others 1995	G5
PSME/PSSP6	Douglas fir / bluebunch wheatgrass	<i>Pseudotsuga menziesii</i> / <i>Pseudoroegneria spicata</i>	Williams and others 1995	G4
PSME/CARU	Douglas fir / pinegrass	<i>Pseudotsuga menziesii</i> / <i>Calamagrostis rubescens</i>	Bourgeron and Engelking 1994; Williams and others 1995	G5
PSME/CAGE	Douglas fir / elk sedge	<i>Pseudotsuga menziesii</i> / <i>Carex geyeri</i>	Bourgeron and Engelking 1994; Williams and others 1995	G4
POBAT/SAEX	Cottonwood / narrowleaf willow	<i>Populus balsamifera</i> ssp. <i>trichocarpa</i> / <i>Salix exigua</i>	Crawford 2003; Kagan 2000	G1
POBAT/SYAL	Black cottonwood / common snowberry	<i>Populus balsamifera</i> ssp. <i>trichocarpa</i> / <i>Symphoricarpos albus</i>	Kovalchik and Clausnitzer 2004	G2
POBAT/COSE16	Black cottonwood / redosier dogwood	<i>Populus trichocarpa</i> / <i>Cornus sericea</i>	Kovalchik and Clausnitzer 2004	G3
SALUL/COSE16	Pacific willow / redosier dogwood	<i>Salix lucida</i> ssp. <i>lasiandra</i> / <i>Cornus sericea</i>	Undescribed	G2
SAEX	Narrowleaf willow	<i>Salix exigua</i>	Bourgeron and Engelking 1994	G5
POTR5/SYAL	Quaking aspen / snowberry	<i>Populus tremuloides</i> / <i>Symphoricarpos albus</i>	Kovalchik and Clausnitzer 2004	G3

Code	Common Name	Scientific Name	Authority	Global Status
POTR5/COSE16	Quaking aspen / redosier dogwood	<i>Populus tremuloides</i> / <i>Cornus sericea</i>	Crawford 2003	G2
ALIN2/BEOC	gray alder / western waterbirch	<i>Alnus incana</i> / <i>Betula occidentalis</i>	Crawford 2003	G1
ALIN2/COSE16	gray alder / redosier dogwood	<i>Alnus incana</i> / <i>Cornus sericea</i>	Crawford 2003	~G3
ALIN2/TYLA complex	gray alder / cattail	<i>Alnus incana</i> / <i>Typha latifolia</i>	Undescribed	?
TYLA	cattails	<i>Typha latifolia</i>	Crawford 2003	G5
PHAR3	reed canary grass	<i>Phalaris arundinacea</i>	Crawford 2003	G5
IRPS	yellow iris	<i>Iris pseudacorus</i>	Non-native; undescribed	G5
ACOC3	western needlegrass	<i>Achnatherum occidentale</i>	Undescribed	G2?
ERNA10-CHVI8-ERNI2	Grey rabbitbrush - green rabbitbrush - snow buckwheat	<i>Ericameria nauseosa</i> - <i>Chrysothamnus viscidiflorus</i> - <i>Eriogonum niveum</i>	Hallock and others 2007	Unranked (G1?)

Common Vegetation Community and Land Cover Types at RSP

Brief descriptions are given below for the common primary plant communities at RSP, based largely on information in NatureServe Explorer (www.natureserve.org/).

Coniferous Forest Communities

Ponderosa pine/common snowberry

Pinus ponderosa / *Symphoricarpos albus* (PIPO/SYAL)

Summary: This ponderosa pine community type occurs in the mountains of the northwestern United States, from the eastern Cascades and northern Sierra Nevada to the Rocky Mountains and Black Hills. It is found on moderate, undulating slopes with loamy soils. Most stands are on slopes with more northerly aspects. The overstory of this community is dominated by *Pinus ponderosa*. There are lesser amounts of *Populus tremuloides*, *Betula papyrifera*, *Quercus macrocarpa*, *Juniperus scopulorum*, *Picea glauca*, *Pinus flexilis*, and *Pseudotsuga menziesii* successfully reproducing. The shrub layer is prominent and approximately 0.5-1.0 m tall. The most prevalent shrubs are *Amelanchier alnifolia*, *Symphoricarpos albus*, *Shepherdia canadensis*, *Mahonia repens*, *Spiraea betulifolia*, *Juniperus communis*, and *Prunus virginiana*. The herbaceous layer is also well-developed. Typical species found in this layer are *Achillea millefolium*, *Campanula rotundifolia*, *Balsamorhiza sagittata*, *Galium* spp., and *Euthamia occidentalis* (= *Solidago occidentalis*). Ground fires are a regular occurrence but regeneration after these events is rapid.

Classification Sources: Cooper et al (1987), Williams et al (1995), Kagan et al (2000); Bourgeron, P. S., and L. D. Engelking, editors (1994)

Global Status: G4? (01Feb1996)

Rounded Global Status: G4 - Apparently Secure

Global Range: This ponderosa pine community type occurs from the mountains of the northwestern United States (eastern cascades and northern Sierras) to the Rocky Mountains and Black Hills, extending from eastern Washington south to northern California, east to South Dakota and north to Montana.

Notes: The ponderosa pine / snowberry plant association was described by Daubenmire and Daubenmire (1984). It is composed of an overstory of ponderosa pine with an understory dominated by common snowberry (*Symphoricarpos albus*; SYAL).

Ponderosa pine/rubber rabbitbrush

Pinus ponderosa / *Ericameria nauseosa* (PIPO/ERNA10)

Summary: This is a community with a recently disturbed understory. The overstory of this community is dominated by *Pinus ponderosa*. The most prevalent understory shrub is *Ericameria nauseosa*.

Global Status: G5? This rank is based on the fact that these communities are very common may not represent a climax community. They are typically dominated in the understory by noxious weeds.

Notes: This community was not found in NatureServe.

Ponderosa pine/bitterbrush/bluebunch wheatgrass

Pinus ponderosa / *Purshia tridentata* / *Pseudoroegneria spicata* (PIPO/PUTR/PSSP6)

Summary: This woodland occurs in the eastern Cascades of Oregon and Washington, the Blue Mountains in eastern Oregon and adjacent Idaho, and California's Modoc Plateau. It has been described as a phase in Idaho and Montana and may be present there. Elevations vary between 460 and 1650 m (1500-5400 feet) on all aspects and slopes of 0-40%. Soils are gravelly loamy sand to fine sandy loam. Blue Mountains sites tend to be steep while Modoc occurrences are on relatively level lava tube benches on

rolling basalt plateaus. *Pinus ponderosa* is the only tree and covers 5-47% over *Purshia tridentata* (1-21% cover). *Pseudoroegneria spicata* and *Festuca idahoensis* cover 1-20%. The former is more abundant on steep and stony sites. The later is absent from California stands. Species of lesser importance include *Achillea millefolium*, *Lomatium triternatum*, and *Lathyrus nevadensis*. Fires have historically maintained *Pinus ponderosa* while thinning *Purshia tridentata* and *Juniperus occidentalis*. Overgrazed and other disturbed sites have high amounts of *Bromus tectorum*.

Classification Comments: In Washington, this association is considered part of the *Pinus ponderosa* / *Purshia tridentata* Woodland (CEGL000867). This association is a rare community which has been described by many sources in many areas. As such, it represents a fairly wide ecological range. It has been described as a phase of *Pinus ponderosa* / *Purshia tridentata* by many authors, and as part of a *Pinus ponderosa* / *Purshia tridentata* / *Festuca idahoensis* - *Pseudoroegneria spicata* type by others. However, it represents a distinct entity regionally, and is generally lumped because it is rarely common anywhere.

Classification Sources: Cooper et al (1987), Williams et al (1995), Kagan et al (2000); Bourgeron, P. S., and L. D. Engelking, editors (1994)

Global Status: G3 (24Nov2000)

Rounded Global Status: G3 - Vulnerable

Reasons: This association is fairly widespread with between 20 and 30 occurrences. However, most occurrences are small, and many are not in good condition. Native *Pseudoroegneria spicata* has been replaced by exotic *Bromus tectorum* in many cases, or by the more weedy native *Elymus elymoides*. Fire suppression causes decreases in *Pinus ponderosa* cover by preventing new pines from regenerating where *Purshia tridentata* is extensive. Fire suppression has also caused increases in *Juniperus occidentalis* in many areas at the southern portion of its range. Logging has removed the largest trees, making the remaining trees more sensitive to stand-replacing fires. Livestock may contribute to the dispersal of weeds and reduction of *Pseudoroegneria spicata*. The few remaining sites in good condition tend to be found on steep or inaccessible areas, making them more resistant to damage by people or livestock.

Global Range: This is a regional type. While only described as such from the Oregon Cascades, Wallowa Mountains, and California's Modoc Plateau, it occurs, as described, in Washington, Idaho, and western Montana. In all areas, it occurs in fairly small patches.

Notes: This community is similar to the *Pinus ponderosa* / *Pseudoroegneria spicata* woodland, except that bitterbrush is present as a dominant shrub.

Ponderosa pine/bluebunch wheatgrass

***Pinus ponderosa* / *Pseudoroegneria spicata* (PIPO/PSSP6)**

Summary: This ponderosa pine woodland is one of the drier ponderosa pine woodlands found in the northern Rocky Mountains, Inter-Mountains, and extreme northwestern Great Plains of the United States and Canada. It is found on slopes with coarse soils, often with a high gravel or rock content. *Pinus ponderosa* is typically the only tree in the overstory, although *Juniperus scopulorum* may be present in the subcanopy. It forms open to moderately closed canopies. There are very few shrubs. The herbaceous layer is dominated by *Pseudoroegneria spicata*. Other species found in this layer are *Carex filifolia*, *Carex inops* ssp. *heliophila*, *Koeleria macrantha*, *Achillea millefolium*, *Balsamorhiza sagittata* and *Hesperostipa comata* (= *Stipa comata*). Bare mineral soil and exposed rock are common.

Classification Comments: The stands used to document the *Pinus ponderosa* / *Pseudoroegneria spicata* Woodland Habitat Type described by Hansen and Hoffman (1988) and Hoffman and Alexander (1976) had very high basal area and densities for a woodland, possibly due to their sampling procedure. The dense structure may have affected the floristic makeup of the stands and made the list of dominant species a poor reflection of the community as a whole.

Classification Sources: Cooper et al (1987), Williams et al (1995), Kagan et al (2000); Bourgeron, P. S., and L. D. Engelking, editors (1994)

Global Range: This ponderosa pine woodland is one of the drier ponderosa pine woodlands found in the northern Rocky Mountains, Intermountains, and extreme northwestern Great Plains of the United States and Canada, extending from the Black Hills of South Dakota and Wyoming west to Oregon, Washington, and British Columbia.

Notes: The ponderosa pine / bluebunch wheatgrass plant association has an overstory of ponderosa pine and a forb layer dominated by bluebunch wheatgrass (*Pseudoroegneria spicata*; PSSP6). It was described by Daubenmire and Daubenmire (1984). It has a G4 ranking which implies that it is globally secure. This community is very common in arid areas where the lowermost coniferous forests abut shrub-steppe.

Ponderosa pine/Idaho fescue

***Pinus ponderosa* / *Festuca idahoensis* (PIPO/FEID)**

Classification Sources: Cooper et al (1987), Kagan et al (2000); Bourgeron, P. S., and L. D. Engelking, editors (1994)

Global Status: G4

Global Range: Widespread throughout the western US.

Notes: This may have been more common prior to European settlement.

Ponderosa pine/Idaho fescue-bluebunch wheatgrass

***Pinus ponderosa* / *Festuca idahoensis* – *Pseudoroegneria spicata* (PIPO/FEID-PSSP6)**

Classification Sources: Cooper et al (1987), Kagan et al (2000); Bourgeron, P. S., and L. D. Engelking, editors (1994)

Global Status: ?

Notes: This community was not listed on NatureServe. It is similar to the *Pinus ponderosa* / *Festuca idahoensis* Woodland except that *Pseudoroegneria spicata* is also co-dominant in the understory. The rank could not be determined.

Ponderosa pine/Pacific ninebark

***Pinus ponderosa* / *Physocarpus malvaceus* (PIPO/PHMA5)**

Summary: This plant association is known from stands within the Idaho Batholith, Bitterroot Mountains, and Palouse Prairie ecoregional sections. The association is found on moderately steep northwest- to northeast-facing slopes, below 915 m (3000 feet) elevation. The natural fire disturbance regime is one of frequent, low intensity fire events. *Pinus ponderosa* / *Symphoricarpos albus* is adjacent on hotter, drier south-facing slopes. *Pseudotsuga menziesii* / *Physocarpus malvaceus* is adjacent on more moist sites. *Pinus ponderosa* occurs with a structurally and compositionally diverse understory shrub layer. *Symphoricarpos albus*, *Spiraea betulifolia*, and *Mahonia repens* form an understory low-shrub canopy. *Physocarpus malvaceus* or *Holodiscus discolor* dominate the understory tall-shrub layer; *Ceanothus sanguineus*, *Philadelphus lewisii*, *Prunus virginiana*, and *Amelanchier alnifolia* are often associated. Highly consistent herbaceous species include *Galium boreale*, *Moehringia macrophylla* (= *Arenaria macrophylla*), *Osmorhiza berteroi* (= *Osmorhiza chilensis*), *Erythronium grandiflorum*, *Calamagrostis rubescens*, and *Carex geyeri*.

Classification Sources: Cooper et al (1987), Williams et al (1995), Kagan et al (2000); Bourgeron, P. S., and L. D. Engelking, editors (1994)

Global Status: G2 (04Nov1997)

Rounded Global Status: G2 - Imperiled

Reasons: This relatively widespread plant association of the Idaho Batholith, Bitterroot Mountains, and Palouse Prairie ecoregional sections occurs as dispersed isolated stands or in clusters of few stands, with low abundance throughout the range. The association is found only on northwestern to northeastern aspects of moderate slopes, below 3000 feet elevation. These relatively accessible sites are historically degraded by selective harvest, livestock grazing, and conversion to agriculture and residential land uses.

The current number and representative quality of stands needs to be determined through appropriate inventories. Frequent, low-intensity fire is an important ecological attribute of this association, and recovery from extended exclusion of fire may be difficult as excessive live and dead fuels will accumulate rapidly on these relatively productive sites. The plant association occurs in Elk Creek (350 a) and Little Granite Creek (50 a) Research Natural Areas, Nez Perce National Forest and Mary M. McCroskey State Park in Idaho. The representative quality of these protected occurrences has not been confirmed in recent years.

United States Distribution: ID, MT, WA

Notes: At RSP, this community occurs in dry, rocky areas that have moderate slopes.

Ponderosa pine/pinegrass

***Pinus ponderosa* / *Calamagrostis rubescens* (PIPO/CARU)**

Summary: This association has only been described from central and northeastern Oregon, and adjacent Washington and Idaho. It is most often found between 1310 and 1830 m (4300-6000 feet) on all aspects with slopes less than 20%. Soils range from sandy or silty loams to silty clay loams and clay. Parent material is residuum and colluvium of igneous, sedimentary, and metamorphic rocks, most with a mantle of ash or loess. This open forest resembles a park-like setting typified by large trees mantling a grassy floor. It usually consists of large-diameter *Pinus ponderosa* averaging 45% (17-81%) cover, which represents the only tree. Shrub cover is low with the most common associate, *Symphoricarpos albus* having less than 2% canopy cover. *Calamagrostis rubescens* averages 38% (7-70%) cover and *Carex geyeri* supports an average of 20% (2-45%) cover. Forbs include *Achillea millefolium*, *Lupinus caudatus*, *Arnica cordifolia*, and *Fragaria crinita*, all occurring at less than 12%.

Classification Comments: There are stands which look exactly like this in Washington and northwestern Oregon which have been called *Pseudotsuga menziesii* - *Pinus ponderosa* / *Calamagrostis rubescens*, and differ only in having occasional *Pseudotsuga menziesii* reproduction. Hall (1973) included this association in his 'mixed conifer-pinegrass' type, lumping it with the more common *Pseudotsuga menziesii* / *Calamagrostis rubescens* community. Cover of the tree canopy may average less than 60%; the type might better be placed in the *Pinus ponderosa* Woodland Alliance (A.530).

Classification Sources: Kagan et al (2000); Bourgeron, P. S., and L. D. Engelking, editors (1994)

Global Status: G2Q (29Mar1999)

Rounded Global Status: G2 - Imperiled

Reasons: This fire-dependent rare community is restricted to areas in central Oregon and adjacent Washington and Idaho, which are moist enough to support *Calamagrostis rubescens*, but too dry to support *Pseudotsuga menziesii*. While the association was never abundant, it was once widespread. Large areas once dominated by this vegetation type have functionally become *Pseudotsuga menziesii* / *Calamagrostis rubescens* Woodland (CEGL000429). All current occurrences are threatened by grazing, fire suppression (which creates ladder fuels leading to stand replacement fires instead of cool underburns). Because of ongoing degradation due to grazing, logging, and fire suppression, this type is being rapidly lost.

Notes: This community is an uncommon plant association at RSP, and only occurs in small patches.

Ponderosa pine/needle-and-thread

***Pinus ponderosa* / *Hesperostipa comata* (PIPO/HECO26)**

Summary: This association includes *Pinus ponderosa* stands generally on coarse-textured soils with few or no shrubs and an herbaceous layer dominated by *Hesperostipa comata* (= *Stipa comata*), *Achnatherum lemmonii* (= *Stipa lemmonii*), *Achnatherum occidentale* (= *Stipa occidentalis*), *Achnatherum thurberianum* (= *Stipa thurberiana*), or *Aristida purpurea* var. *longiseta* (30-60% cover). The association is defined primarily by sandy soils and the absence of *Festuca idahoensis* and/or trace only amounts of *Pseudoroegneria spicata*. There are 13 native bunchgrass species (35-100% cover), 51 (49 native)

perennial forbs (1-20% cover), 19 (11 native) annuals (1-20% cover), 3 shrubs in trace amounts, 7 dwarf-shrubs (1-9% cover).

Classification Sources: Cooper et al (1987), Kagan et al (2000); Bourgeron, P. S., and L. D. Engelking, editors (1994), WANHP unpubl. Data

Global Status: G1 (09Oct1997)

Rounded Global Status: G1 - Critically Imperiled

Reasons: This community is restricted to a small area in northeastern Washington and adjacent Idaho and to sandy or other coarse-textured soils. Known examples (fewer than 5) are in fair to poor condition. Fire suppression, livestock grazing, exotic plant species invasion, and urbanization have significantly changed community composition and structure of this type throughout its range. A very small portion (<1000 acres) of the original range remains and that in a very fragmented and altered landscape. The largest example is less than 25 acres and is a variant (*Achnatherum occidentale*-dominated) of the typical type. The full range of variation of the described type may no longer exist in a semi-natural or natural state. There is nearly no chance of locating a high-quality example of this type.

Notes: This community occurs on dry, generally flat areas that have sandy soils. It is easily disturbed and frequently found with non-native species.

Ponderosa pine/Ross' sedge

***Pinus ponderosa* / *Carex rossii* (PIPO/CARO5)**

Summary: This association includes *Pinus ponderosa* stands with few or no shrubs and an herbaceous layer dominated by *Carex rossii*. The association occurs on sandy soils with only trace amounts of *Festuca idahoensis* and/or trace only amounts of *Pseudoroegneria spicata*.

Global Status: ?

Notes: This community is fairly common at RSP. Some examples can be found without significant invasive species present. Conversely, it tolerates a moderate amount of invasion, and appears prone to invasion by *Poa bulbosa*.

Ponderosa pine-Douglas Fir/bluebunch wheatgrass

***Pinus ponderosa* - *Pseudotsuga menziesii* / *Pseudoroegneria spicata* (PIPO-PSME/PSSP6)**

Summary: This is a mixed forest of ponderosa pine and Douglas-fir with an understory of bluebunch wheatgrass and was described by Bourgeron (1994). It is similar to the *Pinus ponderosa* / *Pseudoroegneria spicata* association, with the inclusion of Douglas-fir in the overstory. It is also similar to the *Pseudotsuga menziesii* / *Pseudoroegneria spicata* association described by Lillybridge (1995). This plant association occupies relatively dry, cool forested sites in the study area. The forest overstory is usually quite open.

Global Status: This plant association has a G3 global status that indicates that it is rare and somewhat vulnerable.

Douglas fir/Pacific ninebark

***Pseudotsuga menziesii* / *Physocarpus malvaceus* (PSME/PHMA5)**

This community contains an overstory of Douglas-fir and often ponderosa pine. Ninebark is a common understory shrub.

Classification Sources: Cooper et al (1987), Williams et al (1995), Kagan et al (2000); Bourgeron, P. S., and L. D. Engelking, editors (1994)

Global Status: G5 (01Feb1996)

Rounded Global Status: G5 – Secure

Notes: This community is common on forested slopes in RSP.

Douglas fir/common snowberry

***Pseudotsuga menziesii* / *Symphoricarpos albus* (PSME/SYAL)**

Summary: This widespread forest association occurs in the central and northern Rocky Mountains from the mid montane zone down to upper foothill zone on cool aspects. Sites are warm and relatively dry to moist, gentle to steep, mid to lower slopes, benches, and terraces. Stands are found on southerly or easterly aspects throughout much of its range, but may occur on any aspect. Substrates are variable and may be very gravelly or not, with soil textures ranging from sandy loam to silt derived from alluvium, glacial till and outwash. Ground surface has high cover of litter, sometimes significant cover of rock, and low cover of bare soil. The vegetation is characterized by a moderately dense to dense (40-90% cover) evergreen needle-leaved tree canopy, dominated or codominated by *Pseudotsuga menziesii* with the short shrub *Symphoricarpos albus* dominating or codominating the understory. Mature *Pinus ponderosa* often codominates the tree canopy, but does not regenerate. Other mature seral tree species present to codominant may include *Pinus contorta*, *Pinus flexilis*, *Larix occidentalis*, *Juniperus* spp., or *Populus tremuloides*. Understory trees are almost exclusively *Pseudotsuga menziesii*. The short-shrub layer is dominated or codominated by the rhizomatous *Symphoricarpos albus* and other short shrubs such as *Juniperus communis*, *Mahonia repens*, *Paxistima myrsinites*, *Ribes cereum*, *Rosa* spp., *Spiraea betulifolia*, and *Symphoricarpos oreophilus*. Scattered tall shrubs such as *Amelanchier alnifolia*, *Prunus virginiana*, or *Sorbus scopulina* may form an open tall-shrub layer. A low cover to moderately dense herbaceous layer is present and is composed of diverse forbs with the graminoids *Calamagrostis rubescens*, *Carex geyeri*, *Festuca idahoensis* or *Pseudoroegneria spicata* present to codominant.

Classification Sources: Cooper et al (1987), Williams et al (1995), Kagan et al (2000); Bourgeron, P. S., and L. D. Engelking, editors (1994)

Global Status: G5 (01Feb1996)

Rounded Global Status: G5 – Secure

Global Range: This widespread montane forest association occurs in the central and northern Rocky Mountains from southeastern Idaho and northwestern Wyoming, Montana, Idaho and eastern Oregon and Washington, extending into southern Alberta and British Columbia.

Notes: The Douglas fir / snowberry plant association was originally described by Daubenmire and Daubenmire (1984). It is composed of an overstory of Douglas fir with an understory of common snowberry. It occurs on moister, shadier sites than the ponderosa pine associations. It is ranked G5, globally secure.

Douglas fir/shinyleaf spiraea

***Pseudotsuga menziesii* / *Spiraea betulifolia* (PSME/SPBE)**

Summary: This montane to lower subalpine forest association is known from the central and northern Rocky Mountains from northwestern Wyoming, to eastern Oregon, Idaho and western Montana, and extending into Canada. Elevations range from 1010 to 2470 m (3300-8100 feet). Stands occur on a variety of sites from steep colluvial slopes to gentle rolling terrain on relatively warm, dry sites. Sites at lower elevation and latitude are typically restricted to northerly aspects or limestone substrate. Higher elevation sites occur on a variety of aspects with the most northerly stands restricted to dry southern aspects. Parent materials are various. Soils tend to be coarser-textured, gravelly loam or sandy loam. Tree litter, often 4-6 cm deep, dominates the ground cover. Vegetation is characterized by an overstory tree canopy dominated by *Pseudotsuga menziesii* with *Spiraea betulifolia* prominent in the understory. *Pinus ponderosa* may be codominant in the overstory tree canopy, and *Pinus contorta* or *Populus tremuloides* may be present in the subcanopy. *Spiraea betulifolia* is a major component in the short-shrub layer with *Amelanchier alnifolia*, *Mahonia repens*, or *Paxistima myrsinites* sometimes abundant. Other common shrubs include *Acer glabrum*, *Lonicera utahensis*, *Prunus virginiana*, *Salix scouleriana*, *Shepherdia canadensis*, *Sorbus scopulina*, *Symphoricarpos oreophilus*, or *Symphoricarpos albus*. The sparse to moderately dense

herbaceous layer may be dominated by graminoids *Calamagrostis rubescens*, *Carex geyeri*, *Festuca idahoensis*, or *Pseudoroegneria spicata*, with a variety of forbs.

Classification Sources: Lillybridge (1995), Cooper et al (1987), Williams et al (1995), Kagan et al (2000); Bourgeron, P. S., and L. D. Engelking, editors (1994)

Global Status: G5 (01Feb1996)

Notes: This community is uncommon at RSP. It is characterized by an overstory of Douglas-fir and an understory dominated by shiny-leaf spiraea. This association occurs on moderately mesic, cool slopes, with good drainage and often relatively thin soils.

Douglas fir/bluebunch wheatgrass

***Pseudotsuga menziesii* / *Pseudoroegneria spicata* (PSME/PSSP6)**

Summary: This dry Douglas-fir woodland type occurs in scattered stands throughout the interior northwestern United States and British Columbia. Slopes are generally steeper than 20% and can exceed 70% in the southern part of the range. Elevations range from 500 m (1640 feet) in British Columbia to around 2200 m (7200 feet) in northwestern Colorado. Aspect likewise varies, with warm southerly aspects preferred in the northern part of the range to cool, sheltered north-facing slopes at the southern extreme. Soils may be derived from any mineral parent material but are generally coarse-textured, rocky and poorly developed due to constant downslope movement. The vegetation is characterized by an open canopy of *Pseudotsuga menziesii* with 25 to 35% cover, often accompanied by scattered *Pinus ponderosa* or, less often, *Pinus flexilis*. Shrubs such as *Amelanchier alnifolia*, *Prunus virginiana*, *Ribes cereum*, *Purshia tridentata*, *Spiraea betulifolia*, *Symphoricarpos oreophilus*, *Arctostaphylos uva-ursi*, and *Mahonia repens* are generally present but have less than 10% total cover. The herbaceous layer is diverse and has moderate to high cover of grasses. *Pseudoroegneria spicata* is the dominant grass with up to 35% cover. Other graminoids present may include *Carex geyeri* and *Festuca idahoensis* in the northern part of the range and *Melica bulbosa* and *Poa fendleriana* in the southern part of the range. Forbs are diverse: *Balsamorhiza sagittata* is the most consistent species, but most stands have a dozen species of forbs or more. *Bromus tectorum* is common to abundant in degraded stands.

Classification Comments: This association is restricted to cool, steep slopes where rock outcrops and shallow soils create a relatively xeric microclimate. The diagnostic features of this type are an open canopy of *Pseudotsuga menziesii* with a primarily herbaceous understory dominated by *Pseudoroegneria spicata*.

Classification Sources: Cooper et al (1987), Kagan et al (2000); Bourgeron, P. S., and L. D. Engelking, editors (1994), similar to Williams et al (1995)

Global Status: G4 (01Feb1996)

Rounded Global Status: G4 - Apparently Secure

Reasons: Because *Pseudotsuga menziesii* and *Pseudoroegneria spicata* are broadly distributed throughout the interior western United States and Canada, it is likely that this association is more widespread than current documentation shows. Stands are likely to be small, isolated and scattered except in the central part of the range of the two principal species (Montana, Idaho, Oregon).

Global Range: This type has been reported from interior British Columbia (McLean 1970), central Montana (Pfister 1977), eastern Washington, northeastern Oregon (Cole 1982), central Idaho (Steele et al. 1981) and northwestern Colorado. It is likely to occur in Utah. The range of the principal species extends south into Arizona and New Mexico and north throughout western Canada, so it may be more widespread than is currently known.

Douglas fir/pinegrass

***Pseudotsuga menziesii* / *Calamagrostis rubescens* (PSME/CARU)**

Summary: This lower to mid montane woodland association occurs in the central and northern Rocky Mountains from western Montana to northeastern Washington and British Columbia, and south to western

Wyoming, Idaho and eastern Oregon. Elevations range from 825 to 2400 m (2700-7900 feet). Stands occur on cool, dry sites on mid to upper slopes and benches on all aspects at middle elevations. At lowest elevations stands are restricted to north aspects, and at upper elevations stands are found on warm and dry southerly exposures. Substrates are variable (sandy to clayey), but are generally well-drained, coarser-textured gravelly soils and derived from a variety of noncalcareous, acid, parent materials. Surface rock usually is low to moderate, and litter cover high. The typically open tree canopy is dominated by *Pseudotsuga menziesii* alone or codominated by *Pinus ponderosa* or *Larix occidentalis*. Large *Pinus albicaulis* or *Pinus contorta* trees may be present in the upper tree canopy. The subcanopy is *Pseudotsuga menziesii*. Scattered shrubs such as *Amelanchier alnifolia*, *Paxistima myrsinites*, *Sorbus scopulina*, and *Symphoricarpos oreophilus* and dwarf-shrubs such as *Arctostaphylos uva-ursi* and *Mahonia repens* may also be present. The dense to moderately dense (20-60% cover) perennial graminoid layer characteristically dominates the understory. *Calamagrostis rubescens* typically is the dominant, with *Carex geyeri*, *Festuca idahoensis*, and *Pseudoroegneria spicata* often present to codominant. There is often a high diversity of forbs, but typically all have low cover. Forb species present are highly variable, but the most common forb species are *Achillea millefolium*, *Antennaria* spp., *Arnica cordifolia*, *Balsamorhiza sagittata*, *Eurybia conspicua*, *Fragaria virginiana*, *Geranium viscosissimum*, and *Geum triflorum*.

Classification Sources: Cooper et al (1987), Williams et al (1995), Kagan et al (2000); Bourgeron, P. S., and L. D. Engelking, editors (1994)

Global Status: G5 (01Feb1996)

Rounded Global Status: G5 - Secure

Global Range: This lower to mid montane woodland association occurs in the central and northern Rocky Mountains from western Montana to northeastern Washington and British Columbia, and south to western Wyoming, Idaho and eastern Oregon.

Vegetation Summary: This association typically has an open tree canopy that is dominated by *Pseudotsuga menziesii* alone or codominated by *Pinus ponderosa* or *Larix occidentalis*. Large *Pinus albicaulis* or *Pinus contorta* trees may be present in the upper tree canopy. The subcanopy is *Pseudotsuga menziesii*. Scattered shrubs such as *Amelanchier alnifolia*, *Paxistima myrsinites*, *Sorbus scopulina*, and *Symphoricarpos oreophilus* and dwarf-shrubs such as *Arctostaphylos uva-ursi* and *Mahonia repens* may also be present. The dense to moderately dense (20-60% cover) perennial graminoid layer characteristically dominates the understory. *Calamagrostis rubescens* typically is the dominant, with *Carex geyeri*, *Festuca idahoensis*, and *Pseudoroegneria spicata* often present to codominant. Although some stands may have only *Calamagrostis rubescens*. There is often a high diversity of forbs, but typically all have low cover. The most common forb species are *Achillea millefolium*, *Antennaria* spp., *Arnica cordifolia*, *Balsamorhiza sagittata*, *Eurybia conspicua*, *Fragaria virginiana*, *Geranium viscosissimum*, and *Geum triflorum*.

Notes: This community is relatively uncommon at RSP.

Douglas fir/elk sedge

***Pseudotsuga menziesii* / *Carex geyeri* (PSME/CAGE)**

Summary: This association has been found in the montane zone of the Rocky Mountains of Colorado, Idaho, Montana, Oregon and Washington. Stands occur at lower montane elevations of these mountainous regions, on sites typically drier than most other *Pseudotsuga menziesii* associations. Site slope and aspect vary greatly. Slopes where this association is found in Colorado are reported to be steep to very steep (45-80%). Parent materials include granitics, conglomerates, sandstones, basalts, and shales. Exposed bare ground is low (less than 30%), and litter/duff is relatively thin, usually less than 5 cm deep. Vegetation is characterized by the dominance of *Pseudotsuga menziesii*, with a relatively closed canopy, as well as stands that are more open or have a mixed conifer tree canopy. *Pseudotsuga* is self-regenerating in this association. Several other conifers may be present to codominant, including *Pinus ponderosa* or *Juniperus*

scopulorum in southern Rocky Mountain stands, and *Abies lasiocarpa*, *Pinus albicaulis*, *Pinus contorta*, or *Populus tremuloides* in stands farther north. These species are typically present only in early-seral stands of this association. There is no shrub layer, although several shrub species are typically present with low cover. These include the evergreen needle-leaved *Juniperus communis* and the broad-leaved cold-deciduous *Amelanchier alnifolia*, *Lonicera utahensis*, *Mahonia repens*, *Paxistima myrsinites*, *Purshia tridentata*, *Spiraea betulifolia*, *Vaccinium membranaceum*, *Vaccinium scoparium*, and *Symphoricarpos occidentalis* or *Symphoricarpos oreophilus*. The herbaceous layer is dominated by the perennial sedge *Carex geyeri* (averaging 35% cover). No other herbaceous species are well-represented, but many different forbs can occur in low amounts.

Classification Sources: Cooper et al (1987), Williams et al (1995), Kagan et al (2000); Bourgeron, P. S., and L. D. Engelking, editors (1994)

Global Status: G4? (01Feb1996)

Rounded Global Status: G4 - Apparently Secure

Global Range: This association has been found in the montane zone throughout much of the Rocky Mountains from Colorado to Montana, and west into Oregon and Washington.

Notes: This community may have been more common in the past according to the previous vegetation survey.

Deciduous forests, mesic shrub and wetland communities

Black Cottonwood / narrowleaf willow

***Populus balsamifera ssp. trichocarpa*/*Salix exigua* (POBAT/SAEX)**

Summary: This association occurs on alluvial deposits along rivers and perennial streams in habitats which are seasonally flooded and saturated. It generally occurs in wider river valleys or terraces, with patches of *Populus balsamifera ssp. trichocarpa* dominating forest or woodland patches while *Salix exigua* dominates a continuous shrub canopy, <7 m in height. Few examples of this type occur in pristine condition, so most commonly *Poa pratensis*, *Bromus tectorum*, and *Verbascum thapsus* are widespread in this community. In a few remnants, the open understory can have *Artemisia ludoviciana* and *Leymus cinereus* along with some native forbs.

Global Status: G1 (29Mar1999)

Rounded Global Status: G1 - Critically Imperiled

Reasons: While very little is known about the abundance and distribution of this association, it is clear that it is very rare and very threatened. Few examples occupying very limited acreage exist in good condition. Degraded examples are not uncommon. Conversion, grazing, hydro projects, and diversions are all active threats. The community requires regular flooding on streams and rivers. In the Intermountain West, streams generally either have dams, diversions or both, which decrease the intensity and frequency of floods. This community is particularly susceptible to conversion and change in flood regime.

United States Distribution: CA?, ID?, NV?, OR, WA

Global Distribution: United States

Global Range: Found at low elevations on large streams and rivers in the Intermountain West.

Notes: The cottonwood / narrowleaf willow plant association was described by Crawford (2003) and by Kagan (2000). In RSP this association occurs along rivers where silt has built up deposits. It is ranked G1, critically imperiled. Only a few examples of this type of association are known, and those that are known are often overrun with invasive species.

Black cottonwood/common snowberry

***Populus balsamifera ssp. trichocarpa*/*Symphoricarpos albus* (POBAT/SYAL)**

Summary: This association is known from the Blue Mountains of eastern Oregon, through the Columbia Basin to the Cascades of eastern Washington, into central and northern Idaho, western Wyoming, and

north to the mountains of southern British Columbia. This late-seral association typically occurs at low elevations from 579 to 2040 m (1900-6693 feet) in broad mountain valleys and canyons of low- to moderate-gradient streams and rivers. The association occupies alluvial terraces with deep silty loam soils (over cobble and gravel) on infrequently flooded sites well above the average high-water line and summer water table. Tall and mature *Populus balsamifera ssp. trichocarpa* form the open to closed overstory canopy, with occasional understory asexual reproduction and conifers present. Conifer species, especially *Pinus ponderosa* and *Pseudotsuga menziesii*, may indicate the potential successional pathway on these relatively dry terrace sites. The shrub layer is clearly dominated by one species of *Symphoricarpos*, either *Symphoricarpos albus*, *Symphoricarpos oreophilus*, or *Symphoricarpos occidentalis* (usually with at least 20% cover), although a variety of other tall and medium shrubs (all with cover less than *Symphoricarpos albus*) are often present. The most consistently prominent shrubs are *Acer glabrum*, *Amelanchier alnifolia*, *Crataegus douglasii*, *Philadelphus lewisii*, *Prunus virginiana*, *Rosa* spp., and *Rubus parviflorus*, the presence of which may reflect successional relationships with other alluvial terrace associations. The herbaceous layer is diverse, but has only moderate cover, and often includes exotic species indicative of past disturbance. Perennial grasses, especially *Elymus glaucus*, *Phalaris arundinacea*, and *Poa pratensis*, often codominate with various tall forbs and *Equisetum* spp. The most important forbs include *Clematis ligusticifolia*, *Heracleum maximum*, *Maianthemum* spp., *Thalictrum occidentale*, and *Urtica dioica*.

Global Status: G2 (22Oct2002)

Rounded Global Status: G2 - Imperiled

Reasons: This association is a relatively wide-ranging and broadly defined association occurring on infrequently flooded alluvial terraces of low-elevation streams and rivers of the inland Pacific Northwest. It is usually distinct from related *Populus balsamifera ssp. trichocarpa* stands with tall-shrub understories. This type is not as immediately affected by flow alteration as some other *Populus balsamifera ssp. trichocarpa* types, but the quality and viability of most occurrences are decreased due to many anthropogenic disturbances, including flow regime changes. These disturbances include clearing for road building and urbanization; recreation impacts; dams, flood control levees, and diversions reducing flood peaks and deposition necessary for *Populus balsamifera ssp. trichocarpa* reproduction; and cattle grazing (decreasing *Populus balsamifera ssp. trichocarpa* and *Symphoricarpos* spp. reproduction while promoting exotic species). Interruption of the natural flooding regime on many low-elevation rivers with potential to support this association have occurred resulting in long-term declines from lack of stand replacement. Although there are about 40 to 50 known occurrences, most stands cover relatively small areas and are in poor to fair ecological condition. For these reasons, changing the original rank from G2? to G2 is justified.

Notes: The cottonwood / snowberry plant association occurs at the edges of wetlands. This association was described by Kovalchik and Clausnitzer (2004). This association is ranked G2. This association has a diverse shrub and forb understory that includes a number of graminoids. At RSP it sometimes has invasive deciduous trees such as introduced willows.

Black cottonwood/red osier dogwood

***Populus balsamifera ssp. trichocarpa*/Cornus sericea (POBAT/COSE16)**

Summary: This association has been documented from Washington south to northern California and eastward to Idaho and Montana west of the Continental Divide, as well as central Montana. It occurs over a broad elevation range of 610 to 2135 m (2000-7000 feet) where *Populus balsamifera ssp. trichocarpa* is the dominant cottonwood at elevations considered relatively low to mid gradient. This forest type occupies alluvial terraces of major rivers and streams, point bars, side bars, mid-channel bars, delta bars, an occasional lake or pond margin, and even creeps onto footslopes and lower subirrigated slopes of hilly or mountainous terrain. Stands occasionally occur on upper positions of moderate to steep toeslopes and colluvial fans at the base of avalanche chutes. Many of these sites are flooded in the spring and dry deeply by summer's end; capillary action keeps upper portions of the soil profile moist. Other sites are merely

subirrigated. *Populus balsamifera* ssp. *trichocarpa* dominates the overstory with average cover values ranging from approximately 30-90%. *Populus angustifolia*, *Populus tremuloides*, *Betula papyrifera*, and *Salix amygdaloides* are common subordinates. Several conifer species can be present with low cover (2-10%) in the upper canopy or as young saplings and are never consistently present. Conifers include *Tsuga heterophylla*, *Pseudotsuga menziesii*, *Abies lasiocarpa*, and *Picea engelmannii*. The shrub layer comprises at least 25% cover, with *Cornus sericea* diagnostic for the type and having anywhere from 1-90% cover; other shrub taxa with high constancy include *Symphoricarpos* spp., *Rosa* spp., *Salix* spp., *Crataegus* spp., *Amelanchier alnifolia*, *Salix lutea*, *Acer glabrum*, and *Alnus incana*. There are no graminoids exhibiting high constancy, though any one of a number of disturbance-associated exotics can manifest high coverages. Native grasses such as *Calamagrostis canadensis*, *Glyceria striata*, and *Deschampsia caespitosa* can be abundant in undisturbed stands, but this is increasingly less common. *Maianthemum stellatum*, *Galium triflorum*, *Solidago canadensis*, and *Equisetum* spp. are the only forbs that exhibit even relatively high constancy across the range of the type.

Global Status: G3G4 (23Feb2004)

Rounded Global Status: G3 - Vulnerable

Reasons: Association rank has been changed from G3? to G3G4 on the basis of this type's broad geographic distribution and the fact that within local landscapes, say western Montana, it is relatively common. A thorough crosswalk of this type across its range of distribution is needed; there may be local variations in composition and ecology that would bear recognition of separate associations. Threats to this type include floodplain harvesting of cottonwood and over-browsing from livestock and wildlife, which both find *Cornus sericea* extremely palatable to the point of extirpating it from local floodplain landscapes. The more serious over-browsing consequences are reduced diversity, the introduction of weedy species, and the increase in unpalatable native taxa such as *Symphoricarpos occidentalis*, *Ribes* spp., and *Urtica dioica*.

Notes: The cottonwood / red-osier dogwood plant association was described by Kovalchik and Clausnitzer (2004). This plant association is a wetland/riparian community with an overstory of cottonwood (*Populus balsamifera* ssp. *trichocarpa*) and with an understory dominated by red-osier dogwood (*Cornus sericea*). This plant association as a rank of G3, implying that it is vulnerable globally.

Pacific willow/red osier dogwood

***Salix lucida* ssp. *lasiandra*/Cornus sericea (SALUL/COSE16)**

Vegetation Summary: Vegetation types within this alliance are defined as cold-deciduous, temporarily flooded shrublands. *Salix lucida* dominates the canopy with 10-60% cover. At lower elevations, *Salix lucida* grows into a medium-sized tree overtopping all other willows. However, at higher elevations, it tends to have a more shrubby growth form. It dominates a dense canopy, although *Salix exigua*, *Salix fluviatilis*, and *Salix lutea* share dominance in some types. Other willows that may be present are widely varied, and depends on the stand elevation and region of the state. Other willow species present with 10-20% cover in sampled stand included *Salix ligulifolia*, *Salix boothii*, *Salix geyeriana*, and *Salix amygdaloides*. Other shrub species (10-20% cover) include *Ribes montigenum*, *Alnus incana*, *Betula occidentalis*, *Cornus sericea*, *Lonicera involucrata*, *Rosa woodsii*, *Alnus incana* ssp. *tenuifolia* (= *Alnus tenuifolia*), and *Ribes aureum*. The herbaceous layer consists of *Mentha arvensis*, *Phalaris arundinacea*, and *Poa palustris*. Forb cover was sparse and light in many of the stands.

Summary: Vegetation types within this cold-deciduous, temporarily flooded shrubland alliance are located along streams, from near sea level to moderate elevations (0-3050 m). These types typically occur immediately adjacent to small streams and rivers and are occasionally associated with abandoned beaver ponds and sloughs. Landforms diagnostic of these types include overflow channels of large rivers, alluvial deposits (point bars) of sands and gravels, and sloughs. Soils are typically Entisols, less frequently Mollisols. They are typically coarse-textured but remain moist with water tables above 1 m throughout the growing season. Colorado stands can occur in saturated areas, producing Histosols. *Salix lucida*

dominates the canopy with 10-60% cover. At lower elevations, *Salix lucida* grows into a medium-sized tree overtopping all other willows. However, at higher elevations, it tends to have a more shrubby growth form. It dominates a dense canopy, although *Salix exigua*, *Salix fluviatilis*, and *Salix lutea* share dominance in some types. Other willows that may be present are widely varied, and depend on the stand elevation and region of the state. Other willow species present with 10-20% cover in sampled stands included *Salix ligulifolia*, *Salix boothii*, *Salix geyeriana*, and *Salix amygdaloides*. Other shrub species (10-20% cover) include *Ribes montigenum*, *Alnus incana*, *Betula occidentalis*, *Cornus sericea*, *Lonicera involucrata*, *Rosa woodsii*, *Alnus incana* ssp. *tenuifolia* (= *Alnus tenuifolia*), and *Ribes aureum*. The herbaceous layer consists of *Mentha arvensis*, *Phalaris arundinacea*, and *Poa palustris*. Forb cover was sparse and light in many of the stand. *Populus angustifolia* woodlands, *Salix exigua* and *Salix boothii* shrublands, and *Carex aquatilis* - *Carex utriculata* wet meadows occur within the surrounding floodplain. **Notes:** The Pacific willow / red-osier dogwood plant association is undescribed. This plant association is a wetland/riparian community with an overstory of Pacific willow (*Populus lucida* ssp. *lasiandra*; also known as whiplash willow) and an understory dominated by red-osier dogwood (*Cornus sericea*). This plant association was not specifically found in NatureServe, but the above information was provided for the *Salix lucida* Seasonally Flooded Forest Alliance. This refers to the subspecies *lucida*, not *lasiandra*. The rank of most of the *Salix lucida* associations at NatureServe was G2, so this was also assigned a tentative rank of G2.

Narrowleaf willow

***Salix exigua* (SAEX)**

Summary: This willow shrubland is found throughout the western United States and Great Plains north into the Boreal Plains. This is a highly flood-tolerant community that occurs along rivers and streams at lower elevations, on recently flooded riparian areas, and in moist swales and ditches that are frequently disturbed. Stands occur most commonly on alluvial sand, but silt, clay or gravel may also be present. *Salix exigua* is the dominant canopy species (*Salix interior* or intermediates of the two willow species may be present in the eastern part of the range). It can form dense stands up to 4 m tall, but there are often patches where the shrub layer is absent. Seedlings and small saplings of *Populus deltoides*, *Populus balsamifera*, and *Salix amygdaloides* may be present. The herbaceous cover is sparse to moderate but rarely exceeds 30%. Species present may include *Cenchrus longispinus*, *Polygonum lapathifolium*, *Schoenoplectus americanus* (= *Scirpus americanus*), *Triglochin maritima*, and *Xanthium strumarium*.

Global Status: G5 (06May1999)

Rounded Global Status: G5 - Secure

Reasons: This type is widespread and common throughout its range.

Notes: The narrowleaf willow vegetation type along streams and lakes. This association was described by Bourgeron and Engelking (1994). It is ranked G5, secure.

Quaking aspen/common snowberry

***Populus tremuloides*/*Symphoricarpos albus* (POTR5/SYAL)**

Notes: The aspen / snowberry plant association was described by Kovalchik and Clausnitzer (2004). It is ranked G3, vulnerable. The aspen / snowberry plant community is characterized by an overstory of trembling aspen and an understory of common snowberry. It grows in moist pockets and swales, and sometimes within wetlands. It usually has a diverse understory. This community is very important for many wildlife species. Aspen is a seral species that is regenerated by fire. With fire suppression, aspen is in decline throughout the west.

Quaking aspen/redosier dogwood

***Populus tremuloides*/*Cornus sericea* (POTR5/COSE16)**

Summary: This association is known from east of the Continental Divide in Glacier National Park, Montana. This association is known from the bottom of large glacial troughs, on low terraces and moderate to steep slopes at elevations ranging from 1293 to 1464 m (4240-4800 feet). The association is found on glacial-fluvial and lacustrine deposits with well-drained sandy loam to clay loam soils. This association is known from avalanche chutes and from a bottomland stand bordering a spring-fed stream. This association consists of a multi-aged canopy dominated by *Populus balsamifera* ssp. *trichocarpa* and *Picea engelmannii* with lesser amounts of *Pseudotsuga menziesii* and *Abies lasiocarpa*. Conifer species are always present, with *Picea engelmannii* being most characteristic; however, *Abies lasiocarpa* and *Pseudotsuga menziesii* are present as seedlings and saplings. *Betula papyrifera* is present in half the stands with up to 10% cover. *Cornus sericea* is present in all stands with variable height and multiple ages. With up to 70% cover, it can dominate the shrub canopies, but more often the diversity of shrubs renders no species clearly dominant. Other common variable-height shrubs include *Rubus parviflorus*, *Symphoricarpos albus*, and *Amelanchier alnifolia*, with average coverages of 5 to 25%. *Acer glabrum* and *Rhamnus alnifolia* are less frequently present but can have high cover. *Elymus glaucus* has high constancy but low cover. Forb diversity is high, but the only species with more than trace cover is *Heracleum maximum*, which has low constancy. In at least one stand (surrounding a spring-fed stream), the forb level is likely kept low by snow and water levels most of the season. Mosses are present with 5 to 10% cover, and the ground cover is otherwise made up of litter and woody debris.

Global Status: G2G3 (09Feb2004)

Rounded Global Status: G2 - Imperiled

Notes: The aspen / red-osier dogwood association is similar to the aspen / snowberry association, but it occurs in wetter soils. It was described by Crawford (2003).

Gray alder/western water birch

Alnus incana / *Betula occidentalis* (ALIN2/BEOC)

Summary: This plant association is described from data collected in the Snake and Salmon river corridors, within the Blue Mountains ecoregional section. The plant association occurs within a relatively discrete elevational band (350-640 m [1150-2100 feet] and 550-760 m [1800-2500 feet], respectively) in the deeply incised terrain of the Snake and Salmon canyons. The association occurs on stable and unstable stream channel substrates. In this region of west-central Idaho, *Betula occidentalis* is usually found at elevations higher than *Alnus rhombifolia*. These species do co-occur near the upper elevational limit of *Alnus rhombifolia* on tributaries with fair to good stream channel stability ratings. This implies that *Betula occidentalis* occupies sites with less frequent disturbance, and with cold air drainage from higher elevations. This forest plant association is dominated by broad-leaved, deciduous tree species. *Alnus rhombifolia* is codominant with *Betula occidentalis*, both occur with high cover. *Populus balsamifera* ssp. *trichocarpa* (= *Populus trichocarpa*), *Abies grandis* and *Pseudotsuga menziesii* may also be associated. The understory is characterized by a dense, multi-layered, and species-rich deciduous shrub layer. Species commonly present include *Crataegus douglasii*, *Cornus sericea*, *Ribes oxycanthoides* ssp. *irriguum* (= *Ribes irriguum*), *Rosa woodsii*, *Rhus glabra*, *Philadelphus lewisii*, *Prunus virginiana*, *Sambucus caerulea*, and *Salix scouleriana*. The herbaceous component of this plant association has not been described.

Global Status: G1 (02Nov1997)

Rounded Global Status: G1 - Critically Imperiled

Reasons: This plant association is a regional endemic of the Snake and Salmon river canyonlands in Idaho, Oregon, and possibly Washington. It is described as occurring within a relatively discrete elevational band in the deeply incised terrain of the Snake and Salmon canyons (1150-2100 and 1800-2500 feet, respectively). The distribution and representative quality of the association have declined severely in the last decades due to direct loss of habitat resulting from hydroelectric dam construction and chronic degradation resulting from livestock grazing and the associated alteration of hydrological

regimes. Very few high-quality stands are known. Inventory work has not been conducted recently to determine the current number and condition of stands. Few, small stands are represented in protected areas.

Notes: This community was described by Crawford (2003). It is ranked G1. The gray alder-western water birch association is characterized by codominance of both species. It can be classified under short trees or under tall shrubs; stands usually mature at about 35 feet in height. This is a diverse community.

Gray alder-redosier dogwood

***Alnus incana/Cornus sericea* (ALIN2/COSE16)**

Notes: The gray alder-red-osier dogwood association occurs in saturated soils. It has a high diversity of shrubs and herbs. This community was described by Crawford (2003). It was not described in NatureServe. It was tentatively assigned a rank of G3, based on rankings of similar associations with the same dominant species.

Gray alder/cattail complex

***Alnus incana/Typha latifolia* (ALIN2/TYLA)**

Notes: The gray alder/cattail complex is a mixture of two communities. See the individual communities for a description.

Cattails

***Typha latifolia* (TYLA)**

Summary: This association is widespread across the western United States and western Great Plains occurring near streams, rivers, and ponds. The soil is flooded or saturated for at least part of the growing season. The alluvial soils have variable textures ranging from sand to clay and usually with a high organic content. The dominant species, *Typha latifolia* or *Typha angustifolia*, often form dense, almost monotypic stands. Other species typical of wetlands may be found in lesser amounts in this community; among these are shallower water emergents such as *Carex* spp., *Eleocharis macrostachya*, *Eleocharis palustris*, *Glyceria* spp., *Juncus balticus*, *Juncus torreyi*, *Mentha arvensis*, *Schoenoplectus acutus*, and *Veronica* spp. In deeper water, *Lemna minor*, *Potamogeton* spp., *Sagittaria* spp., *Azolla filiculoides*, and other aquatics may be present in trace amounts.

Notes: The cattail plant community is dominated by cattails. Cattails are common in ponds and wetlands of the Columbia Basin. The cattail association was described by Crawford (2003). It is ranked G5, secure. It is an important wildlife species.

Reed canarygrass

***Phalaris arundinacea* (PHAR3) (non-native)**

Notes: Reed canary grass (*Phalaris arundinacea*) is an invasive species that invades wetlands and shallow waters. It is ranked G5, globally secure, but this is misleading as reed canary grass is not considered to be a native to this area. Although there is some debate on the natural range of this species, it is safe to say that its range is expanding. Its distribution as a natural type is complicated because even though this species is native to the western hemisphere, its wide cultivation has led to range expansion into wetlands and riparian areas, displacing the local flora. The expansion of reed canary grass is favored by the presence of deep, silty soils, such as those occurring along lakes.

Yellow iris

***Iris pseudacorus* (IRPS) (non-native)**

Notes: Yellow iris (*Iris pseudacorus*) is a noxious weed that invades wetlands and shallow waters. It can displace natives and dominate a stand. It was assigned a rank of G5, to reflect the fact that it is an

undesirable species, however the displaced communities may have been rare prior to the invasion. It prefers very wet soils in habitats similar to that of cattails.

Dry shrublands and grasslands

Western needlegrass

Achnatherum occidentale (ACOC3)

Notes: The western needlegrass association is dominated by western needlegrass. This association occurs on dry, sandy, and generally flat, soils. It is easily invaded and tends to have a high cover of invasive species. The dominant species may be a seral species. It was not described by NatureServe. It may be the shrubless phase of the big sagebrush / western needlegrass association ranked G2.

Grey rabbitbrush – green rabbitbrush – snow buckwheat

Ericameria nauseosa-Chrysothamnus viscidiflorus-Eriogonum niveum (ERNA10-CHVI8-ERNI2)

Classification source: Hallock et al (2007)

Grey rabbitbrush, green rabbitbrush, and snow buckwheat, the first woody shrub species to establish following dune anchoring by herbaceous species define this community type ($n = 109$). Widely distributed across Washington inland dune fields, this type was commonly found on both anchored and stabilized sand plains, inner-dune areas and around blowouts. Grey rabbitbrush was the most common shrub species, while green rabbitbrush and snow buckwheat were occasionally found independent of grey rabbitbrush. With increased sand stabilization total vegetation cover averaged ~ 61% in contrast to herbaceous-dominated community types. The average cover of exotic species (~ 28%) also increased, primarily cheatgrass. Indian ricegrass, lemon scurfpea and thickspiked wheatgrass were common but had reduced cover beneath the shrubs. Overall species diversity was increased with species such as pale evening-primrose (*Oenothera pallida*), sand-dune penstemon (*Penstemon acuminatus*), whiteleaf phacelia, Carey's balsamorhiza (*Balsamorhiza careyana*), turpentine wavewing (*Pteryxia terebinthina*), Columbia cut-leaf (*Hymenopappus filifolius*), thread-leaf fleabane (*Erigeron filifolius*) and prairie junegrass (*Koeleria macrantha*). This type was described but not identified by Easterly and Salstrom (1997) and is similar to the Cheatgrass – Green rabbitbrush zone of Johnsgard (1956).

Notes: The yellow rabbitbrush – rubber rabbitbrush – snow buckwheat community is characterized by sandy areas dominated by yellow rabbitbrush, rubber rabbitbrush and snow buckwheat. The community described by Hallock and others (2007) described a sand dune community. At RSP, these communities may be in a different phase. It is unranked by NatureServe (2008). Based on its apparent rarity, this community was assigned a rank of G1, critically imperiled. However, Hallock and others (2007) cite a similar community with an abundance in Washington of “widely distributed”. If their community is the same as this one, then this one may warrant a lower rank.

Other Land Cover Types

Talus

Talus slopes are a common feature of the RSP landscape. Some slopes are very extensive, while others are small patches below cliffs or on steep hillsides. The talus may be partially vegetated or completely absent of vegetation. In the vegetation polygon data and associated maps, this community is may be combined with other communities, as it often occurs in small patches and is difficult to map separately.

Cliffs and Rock outcrops

These are areas with exposed bedrock. They consist of exposed rock outcrops and steep basalt and granite cliffs with moss and other sparse vegetation. The cliffs can be vertical, and in many places, were not sampled due to the difficulty and danger associated with this steep terrain. In the vegetation polygon data and associated maps, this community may be combined with other communities, as it often occurs in small patches and is difficult to map separately.

Water

Small polygons that represent sections of the Spokane and Little Spokane River in the park boundary.

Developed

This includes Bowl and Pitcher Campground, the Off-Road Vehicle area, parking lots, equestrian facilities, the Centennial Trail and other dirt trails, powerlines, and other structures and facilities.

Disturbed/Weedy

These are sites that have had extensive human disturbance, sometimes combined with wildfire. They are usually very weed-infested sites, with often more than 50% non-native species.

Disturbed wetland

Wetland communities composed largely of non-native plants, usually inundated by artificially raised water table created from dam impoundments along the Spokane River.

Agricultural field

An agricultural field, now farmed or cultivated.

Former agricultural field

An old agricultural field, now abandoned. Often weedy.

Rare Plant Surveys

Methods

We visited the RSP project area multiple times during the 2008 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. We brought a portable plant identification lab with us to the state park, complete with microscopes and other of plant identification tools. We collected plant specimens for later identification when needed. We used a wide range of floras and other plant identification references (e.g. Boersma et al 2006, Flora of North America 1993+, Hitchcock and Cronquist 1973, Hitchcock et al 1955, Hickman 1993, Gentry and Carr 1976, University of Washington Burke Museum Herbarium Vascular Plant Collection, USDA 2008, Washington Natural Heritage Program 2008, Washington Natural Heritage Program. no date, Whitson et al 2000, Wilson 2006).

Field surveys for rare plants were initially conducted from April through September (Table 1 and Figure 1). We looked for rare plants in habitats previously identified as being likely occurrence sites based on DNR NHP rare plant lists and maps of previous sightings in the surrounding area. 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, back at our office, at the Eastern Washington University Herbarium or at the University of Washington Herbarium.

Survey routes were determined based on the need to cover efficiently a large proportion of the park’s area throughout the field season. We surveyed areas of the park more intensively where rare plants are more likely to occur. This method is referred to as the intuitive-controlled method of rare plant surveys (Whiteaker et al. 1998). Survey routes for the rare plant inventory, as well as rare plant locations were recorded either as GPS waypoints and trackpoints, which were later compiled into a single GIS data layer, depicted in Figure 1.

Results

We found three rare plant species at RSP, prairie cordgrass (*Spartina pectinata* Bosc ex Link), gray stickseed (*Hackelia cinerea* (Piper) I.M. Johnst.) and small-leaf pussytoes (*Antennaria parvifolia* Nutt.). All of these are state listed sensitive plants (Table 3). These species and maps of their locations are shown in (Figures 5 through 10). All of these species have been sighted before at RSP, but we located significant new populations within the park. Descriptions of the sightings are described below. See Appendix F for completed WA DNR NHP rare plant sighting forms.

Table 3. Rare plant populations that PBI located at RSP.

Scientific Name	Common Name	CODE	ED STAT	ST STAT	S RANK	G RANK
<i>Antennaria parvifolia</i>	small-leaf pussytoes	ANPA4		S		
<i>Hackelia cinerea</i>	gray stickseed	HACI2		S		
<i>Spartina pectinata</i>	prairie cordgrass	SPPE	SC	S		

Antennaria parvifolia



Figure 5. *Antennaria parvifolia* found at RSP.

Antennaria parvifolia (Figure 5) had been previously located at RSP. PBI confirmed these sightings and added many additional sightings, expanding the known extent of this population to many areas in the park. As a result, we determined that *Antennaria parvifolia* was widespread at RSP (Figure 6). It was a common understory plant in the ponderosa pine forests. While this species is listed as a state sensitive plant, we recommend that it be delisted. This is likely a population of at least 1,000,000 widely distributed, healthy individuals at RSP. Other ponderosa pine forests in the northeastern corner of the state likely also have significant populations.

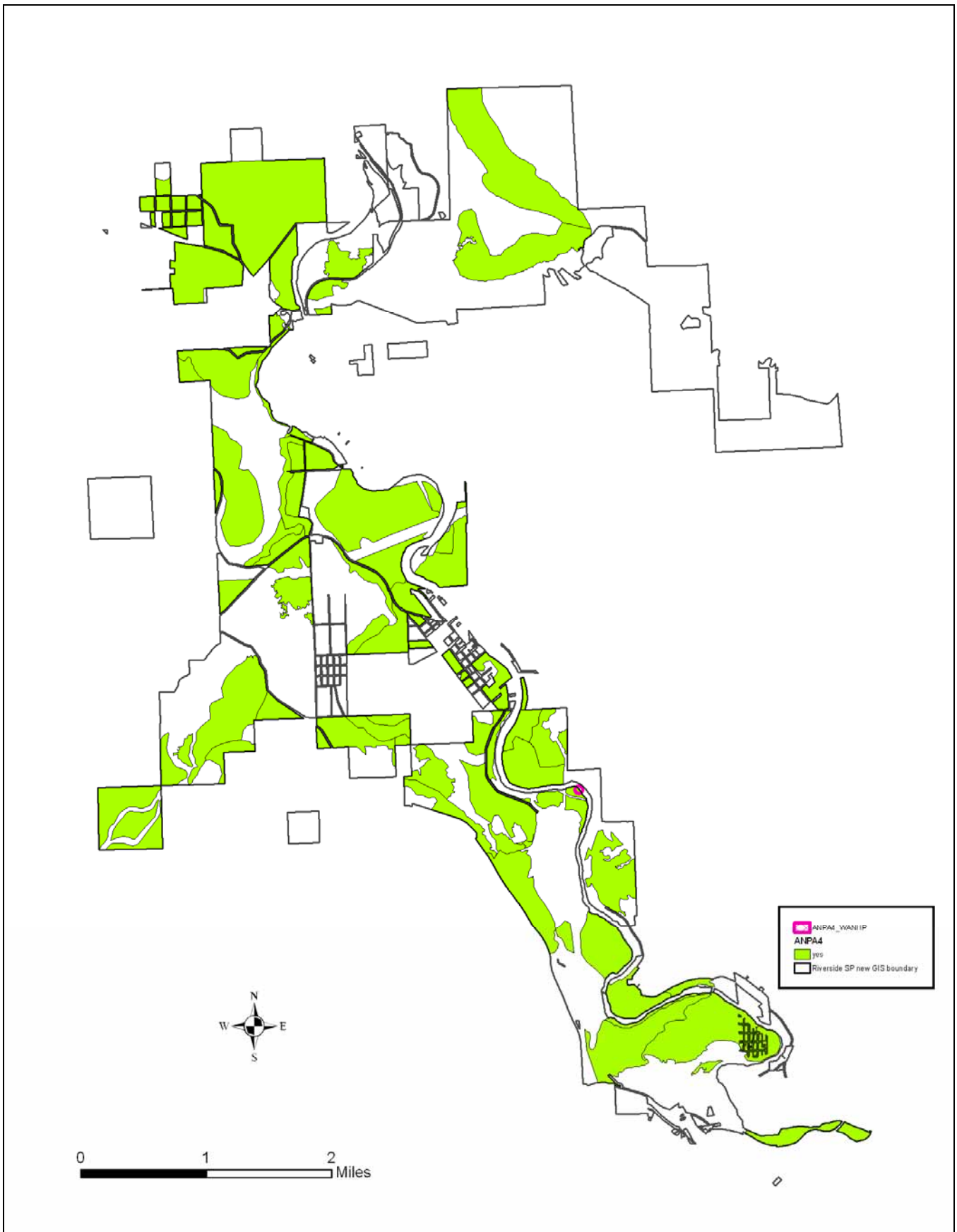


Figure 6. Locations of populations of *Antennaria parviflora* found at RSP property.

Hackelia cinerea



Figure 7. *Hackelia cinerea* found at RSP.

Hackelia cinerea (Figure 7) had been previously located at RSP. PBI confirmed these sightings and added additional sightings, significantly expanding the known extent of this population in the park (Figure 8). An analysis and review of the status of *Hackelia cinerea* is given below. Based on this analysis, this species is indeed very rare in the park and we recommend that it retain its sensitive status. Its rarity suggests that it may deserve threatened status.

Cache Creek is dry during the summer and is providing a corridor for invasion by allowing weedy species to penetrate into the somewhat pristine reaches of Deep Creek Canyon, where a significant population of *Hackelia cinerea* currently thrives. Weed eradication along this stream may be a high priority endeavor, as long as weed control measures do not adversely affect native plants. Also, the fuel loads upslope from the mouth of Deep Creek Canyon are very high, and warrant fuel reduction efforts.

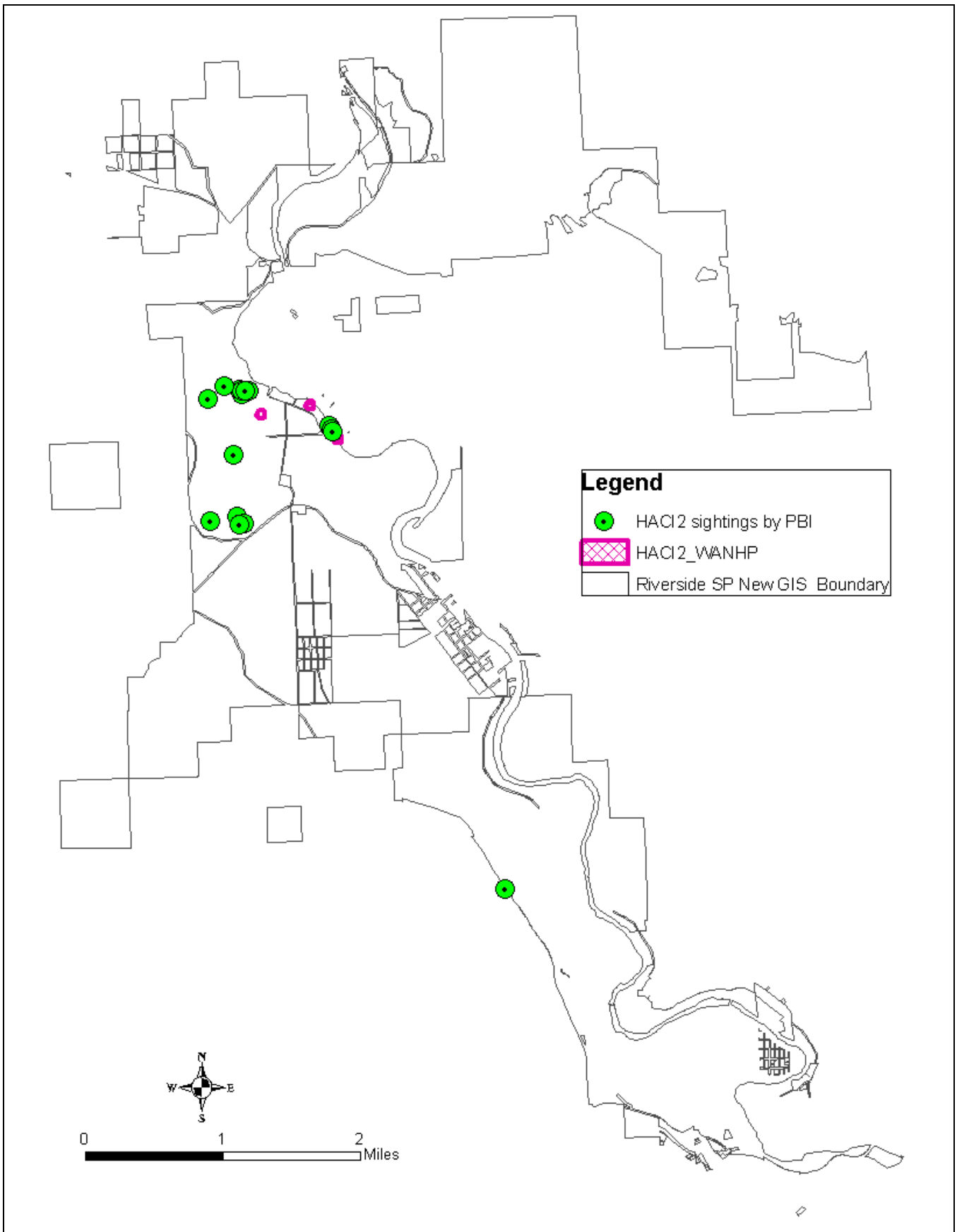


Figure 8. Locations of populations of *Hackelia cinerea* at the RSP property.

Taxon Name: *Hackelia cinerea* (Piper) Johnst.

Specimens were identified using the key to *Hackelia* by Gentry and Carr (1976) and verified against specimens at Marion Ownbey Herbarium at Washington State University. *Hackelia cinerea* identification is simplified due to its distinctive fornix morphology.

Previously documented *Hackelia cinerea* sites: Previous collection records indicate *Hackelia cinerea* (Piper) Johnst. sites occur at the mouth of Deep Creek Canyon in RSP (WNHP; Gentry and Carr 1976). In our surveys, we relocated these previously documented sites (designated as River subpopulations and corresponding to HACI-01, HACI-02, and HACI-03 GPS locations on track logs). This considerably increased the number of sites and the range for this taxon in RSP (see population designation below).

***Hackelia cinerea* population designation:** Because *H. cinerea* grows in a naturally fragmented habitat, we regard the following sites as subpopulations of a larger metapopulation in and around Deep Creek Canyon: River (HACI-01, HACI-02, and HACI-03); Canyon Mouth (HACI-1, HACI-3, HACI-4, HACI-5, HACI-6, and HACI-8); Pine Bluffs (HACI-9 and HACI-10); and Upper (HACI-A) and Lower (HACI-B, HACI-C, and HACI-D) Coulee Creek. We also located a small subpopulation of *H. cinerea* on the high cliff faces above the large burn area, north and west (across river and downstream) from the “Bowl and Pitcher” camping area. This location is much farther south than any previously located populations of *H. cinerea*. It is likely that additional surveys would increase the number of subpopulations in this area.

***Hackelia cinerea* subpopulation size:** RSP subpopulations ranged in the number of reproductive individuals from 2-35, depending on the size of the outcrop.

***Hackelia cinerea* population data:** Individuals of *H. cinerea* were in bloom during our surveys (roughly mid June – mid July); thus, we were able to establish that subpopulations are vigorous and appear to be recruiting. It was common to find a small percentage of non-reproductive individuals at each location. These vegetative individuals were small vegetative basal rosettes, which suggests that they were too young to produce reproductive structures.

***Hackelia cinerea* habitat:** We found the habitat for *H. cinerea* in RSP to be highly restricted to mossy cracks and tiny plateaus in primarily vertical basalt rock outcrops with a predominantly northern exposure. These habitat conditions were a good predictor for locating subpopulations. An exception to the relatively dry conditions described above, occurred in one subpopulation in a more mesic environment along Coulee Creek (Lower Coulee Creek subpop; HACI-C and HACI-D). Associated species for dry sites include *Ageratina occidentalis*, *Physocarpus malvaceus*, *Philadelphus lewisii*, *Amelanchier alnifolia*, *Heuchera cylindrica*, *Eriogonum compositum*, *E. niveum*, *Penstemon fruticosus*, *P. richardsonii*, and *Woodsia oregana*. Elevation ranges from 1600 to 1900 feet (WA).

Spartina pectinata



Figure 9. *Spartina pectinata* found at RSP.

Spartina pectinata (Figure 9) had been previously located at RSP. PBI confirmed these sightings and added additional sightings, significantly expanding the known extent of this population in the park (Figure

10). This species is rare in the park and we recommend that it retain its sensitive status. It only occurs near the high water mark along the Spokane River in areas that are not inundated by reservoirs. It can grow in sand bars, gravel bars or cobble bars along the river.

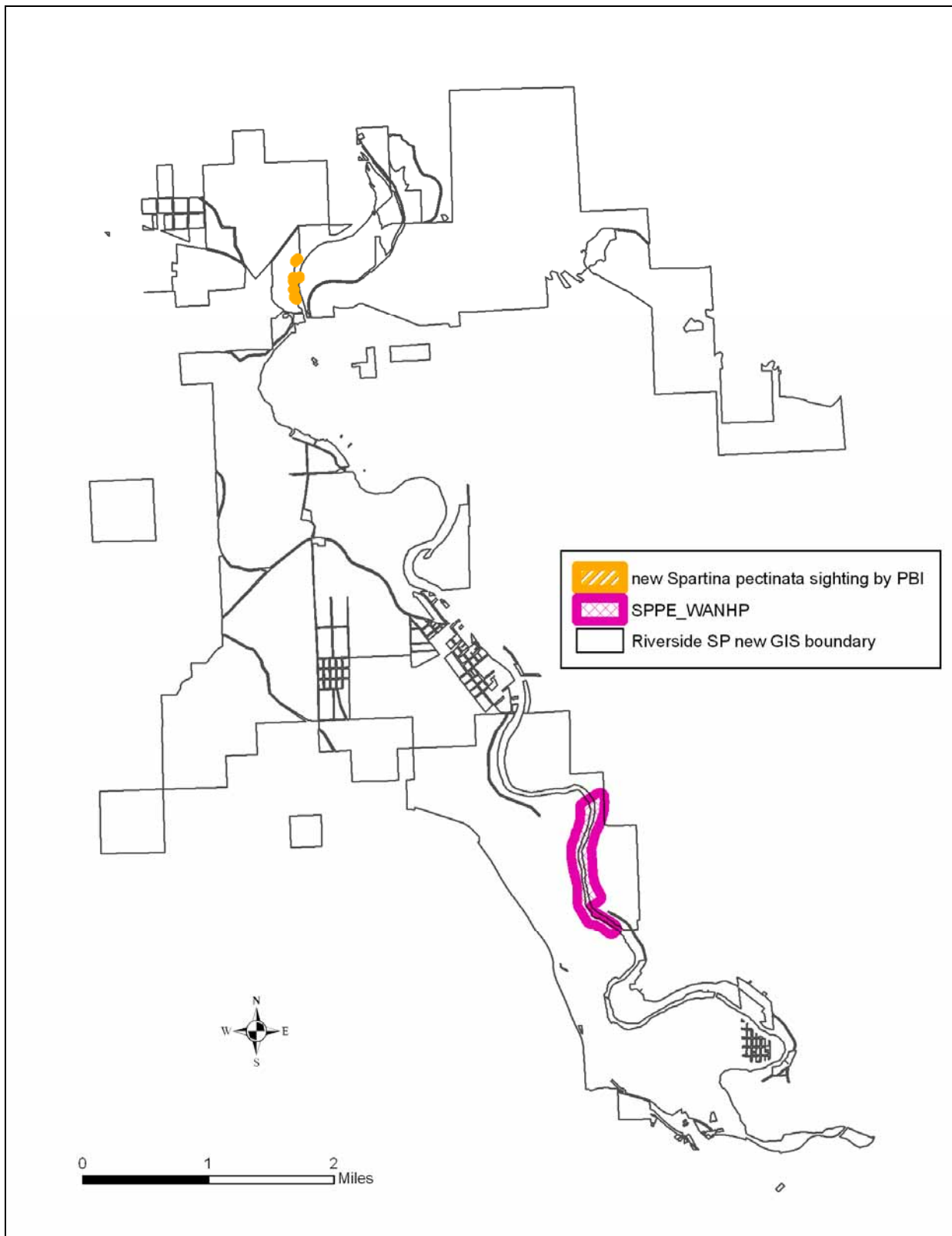


Figure 10. Locations of populations of *Spartina pectinata* at the RSP property.

Overall Botanical Survey Results

We identified 410 vascular plant taxa to the rank species at RSP (Table 4). There are an additional 48 plants listed in Table 4 that were only identified to the level of genus, however most of these correspond to one of the identified species. None of these genera are considered rare. Table 4 lists 120 non-native species (29% of the 410 species).

Table 4. Vascular Plant Species for RSP.

Symbol	Scientific Name with Author	National Common Name	Exotic
ACGLD4	<i>Acer glabrum</i> Torr. var. <i>douglasii</i> (Hook.) Dippel	Douglas maple	
ACER	<i>Acer</i> L.	maple	yes
ACNE2	<i>Acer negundo</i> L.	boxelder	yes
ACPL	<i>Acer platanoides</i> L.	Norway maple	yes
ACSA2	<i>Acer saccharinum</i> L.	silver maple	yes
ACMI2	<i>Achillea millefolium</i> L.	common yarrow	
ACHY	<i>Achnatherum hymenoides</i> (Roem. & Schult.) Barkworth	Indian ricegrass	
ACLE8	<i>Achnatherum lemmonii</i> (Vasey) Barkworth	Lemmon's needlegrass	
ACNED	<i>Achnatherum nelsonii</i> (Scribn.) Barkworth ssp. <i>dorei</i> (Barkworth & Maze) Barkworth	Dore's needlegrass	
ACOC3	<i>Achnatherum occidentale</i> (Thurb.) Barkworth	western needlegrass	
AEHI	<i>Aesculus hippocastanum</i> L.	horse chestnut	yes
AGOC2	<i>Ageratina occidentalis</i> (Hook.) King & H. Rob.	western snakeroot	
AGCR	<i>Agropyron cristatum</i> (L.) Gaertn.	crested wheatgrass	yes
AGGI2	<i>Agrostis gigantea</i> Roth	redtop	yes
AGROS2	<i>Agrostis</i> L.	bentgrass	
AGST2	<i>Agrostis stolonifera</i> L.	creeping bentgrass	yes
ALAC4	<i>Allium acuminatum</i> Hook.	tapertip onion	
ALDO	<i>Allium douglasii</i> Hook.	Douglas' onion	
ALIN2	<i>Alnus incana</i> (L.) Moench	gray alder	
ALNUS	<i>Alnus</i> Mill.	alder	
ALRH2	<i>Alnus rhombifolia</i> Nutt.	white alder	
ALVIS	<i>Alnus viridis</i> (Chaix) DC. ssp. <i>sinuata</i> (Regel) A. Löve & D. Löve	Sitka alder	
AMAL	<i>Amaranthus albus</i> L.	prostrate pigweed	yes
AMBL	<i>Amaranthus blitoides</i> S. Watson	mat amaranth	yes
AMRE	<i>Amaranthus retroflexus</i> L.	redroot amaranth	yes
AMAL2	<i>Amelanchier alnifolia</i> (Nutt.) Nutt. ex M. Roem.	Saskatoon serviceberry	
ANMA	<i>Anaphalis margaritacea</i> (L.) Benth.	western pearly everlasting	
ANAZ	<i>Anchusa azurea</i> Mill.	Italian bugloss	yes
ANOF	<i>Anchusa officinalis</i> L.	common bugloss	yes
ANAR3	<i>Angelica arguta</i> Nutt.	Lyall's angelica	
ANDI2	<i>Antennaria dimorpha</i> (Nutt.) Torr. & A. Gray	low pussytoes	
ANHOH	<i>Antennaria howellii</i> Greene ssp. <i>howellii</i>	Howell's pussytoes	
ANMI3	<i>Antennaria microphylla</i> Rydb.	littleleaf pussytoes	
ANPA4	<i>Antennaria parvifolia</i> Nutt.	small-leaf pussytoes	
ANRA	<i>Antennaria racemosa</i> Hook.	raceme pussytoes	

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ANRO2	<i>Antennaria rosea</i> Greene	rosy pussytoes	
APFL	<i>Apocynum xfloribundum</i> Greene (pro sp.) [<i>androsaemifolium</i> x <i>cannabinum</i>]		
APAN2	<i>Apocynum androsaemifolium</i> L.	spreading dogbane	
APCA	<i>Apocynum cannabinum</i> L.	Indianhemp	
APOCY	<i>Apocynum</i> L.	dogbane	
ARTH	<i>Arabidopsis thaliana</i> (L.) Heynh.	mouseear cress	yes
ARHO2	<i>Arabis holboellii</i> Hornem.	Holboell's rockcress	
ARCA3	<i>Arceuthobium campylopodum</i> Engelm.	western dwarf mistletoe	
ARLA3	<i>Arctium lappa</i> L.	greater burdock	yes
ARUV	<i>Arctostaphylos uva-ursi</i> (L.) Spreng.	kinnikinnick	
ARCO5	<i>Arenaria congesta</i> Nutt.	ballhead sandwort	
ARSE2	<i>Arenaria serpyllifolia</i> L.	thymeleaf sandwort	yes
ARPU9	<i>Aristida purpurea</i> Nutt.	purple threeawn	
ARCO9	<i>Arnica cordifolia</i> Hook.	heartleaf arnica	
ARMO4	<i>Arnica mollis</i> Hook.	hairy arnica	
ARAB3	<i>Artemisia absinthium</i> L.	absinthium	yes
ARDR4	<i>Artemisia dracunculus</i> L.	tarragon	
ARLU	<i>Artemisia ludoviciana</i> Nutt.	white sagebrush	
ARRI2	<i>Artemisia rigida</i> (Nutt.) A. Gray	scabland sagebrush	
ARTR2	<i>Artemisia tridentata</i> Nutt.	big sagebrush	
ASFA	<i>Asclepias fascicularis</i> Decne.	Mexican whorled milkweed	
ASSP	<i>Asclepias speciosa</i> Torr.	showy milkweed	
ASOF	<i>Asparagus officinalis</i> L.	garden asparagus	yes
ASPR	<i>Asperugo procumbens</i> L.	German-madwort	yes
ASMI9	<i>Astragalus miser</i> Douglas ex Hook.	timber milkvetch	
ASPUP7	<i>Astragalus purshii</i> Douglas ex Hook. var. <i>purshii</i>	woollypod milkvetch	
BASA3	<i>Balsamorhiza sagittata</i> (Pursh) Nutt.	arrowleaf balsamroot	
BASC5	<i>Bassia scoparia</i> (L.) A.J. Scott	burningbush	yes
BEIN2	<i>Berteroa incana</i> (L.) DC.	hoary alyssum	yes
BERU	<i>Besseya rubra</i> (Douglas ex Hook.) Rydb.	red besseya	
BEOC2	<i>Betula occidentalis</i> Hook.	water birch	
BICE	<i>Bidens cernua</i> L.	nodding beggartick	
BIFR	<i>Bidens frondosa</i> L.	devil's beggartick	
BRGR	<i>Brickellia grandiflora</i> (Hook.) Nutt.	tasselflower brickellbush	
BRAR5	<i>Bromus arvensis</i> L.	field brome	yes
BRHOH	<i>Bromus hordeaceus</i> L. ssp. <i>hordeaceus</i>	soft brome	yes
BRIN2	<i>Bromus inermis</i> Leyss.	smooth brome	yes
BRTE	<i>Bromus tectorum</i> L.	cheatgrass	yes
BUAR3	<i>Buglossoides arvensis</i> (L.) I.M. Johnst.	corn gromwell	yes
CARU	<i>Calamagrostis rubescens</i> Buckley	pinegrass	
CAMA5	<i>Calochortus macrocarpus</i> Douglas	sagebrush mariposa lily	
CALOC	<i>Calochortus</i> Pursh	mariposa lily	
CAQU2	<i>Camassia quamash</i> (Pursh) Greene	small camas	
CARO2	<i>Campanula rotundifolia</i> L.	bluebell bellflower	
CAAM10	<i>Carex amplifolia</i> Boott	bigleaf sedge	

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CACR4	<i>Carex crawfordii</i> Fernald	Crawford's sedge	
CAGE2	<i>Carex geyeri</i> Boott	Geyer's sedge	
CAHO5	<i>Carex hoodii</i> Boott	Hood's sedge	
CAHY4	<i>Carex hystericina</i> Muhl. ex Willd.	bottlebrush sedge	
CAREX	<i>Carex</i> L.	sedge	
CALE8	<i>Carex lenticularis</i> Michx.	lakeshore sedge	
CAMI7	<i>Carex microptera</i> Mack.	smallwing sedge	
CAPE42	<i>Carex pellita</i> Muhl. ex Willd.	woolly sedge	
CARE4	<i>Carex retrorsa</i> Schwein.	knotsheath sedge	
CARO5	<i>Carex rossii</i> Boott	Ross' sedge	
CASCP	<i>Carex scopulorum</i> T. Holm var. <i>prionophylla</i> (T. Holm) L.A. Standl.	firethread sedge	
CAST5	<i>Carex stipata</i> Muhl. ex Willd.	awlfruit sedge	
CATH4	<i>Castilleja thompsonii</i> Pennell	Thompson's Indian paintbrush	
CESA	<i>Ceanothus sanguineus</i> Pursh	redstem ceanothus	
CEVE	<i>Ceanothus velutinus</i> Douglas ex Hook.	snowbrush ceanothus	
CECY2	<i>Centaurea cyanus</i> L.	garden cornflower	yes
CEDI3	<i>Centaurea diffusa</i> Lam.	diffuse knapweed	yes
CESO3	<i>Centaurea solstitialis</i> L.	yellow star-thistle	yes
CESTM	<i>Centaurea stoebe</i> L. ssp. <i>micranthos</i> (Gugler) Hayek	spotted knapweed	yes
CEER5	<i>Centaurium erythraea</i> Rafn	European centaury	yes
CHDO	<i>Chaenactis douglasii</i> (Hook.) Hook. & Arn.	Douglas' dustymaiden	
CHGL13	<i>Chamaesyce glyptosperma</i> (Engelm.) Small	ribseed sandmat	
CHANA2	<i>Chamerion angustifolium</i> (L.) Holub ssp. <i>angustifolium</i>	fireweed	
CHAM	<i>Chenopodium ambrosioides</i> L.	Mexican tea	yes
CHJU	<i>Chondrilla juncea</i> L.	rush skeletonweed	yes
CHVI8	<i>Chrysothamnus viscidiflorus</i> (Hook.) Nutt.	yellow rabbitbrush	
CIIN	<i>Cichorium intybus</i> L.	chicory	yes
CIAR4	<i>Cirsium arvense</i> (L.) Scop.	Canada thistle	yes
CIRSI	<i>Cirsium</i> Mill.	thistle	
CIUN	<i>Cirsium undulatum</i> (Nutt.) Spreng.	wavyleaf thistle	
CIVU	<i>Cirsium vulgare</i> (Savi) Ten.	bull thistle	yes
CLAR3	<i>Claytonia arenicola</i> L.F. Hend.	sand springbeauty	
CLPA5	<i>Claytonia parviflora</i> Douglas ex Hook.	streambank springbeauty	
CLPE	<i>Claytonia perfoliata</i> Donn ex Willd.	miner's lettuce	
CLRUR	<i>Claytonia rubra</i> (Howell) Tidestr. ssp. <i>rubra</i>	redstem springbeauty	
CLEMA	<i>Clematis</i> L.	leather flower	
CLLI2	<i>Clematis ligusticifolia</i> Nutt.	western white clematis	
COPA3	<i>Collinsia parviflora</i> Lindl.	maiden blue eyed Mary	
COGR4	<i>Collomia grandiflora</i> Douglas ex Lindl.	grand collomia	
COLI2	<i>Collomia linearis</i> Nutt.	tiny trumpet	
COAR4	<i>Convolvulus arvensis</i> L.	field bindweed	yes
COCA5	<i>Conyza canadensis</i> (L.) Cronquist	Canadian horseweed	
COSE16	<i>Cornus sericea</i> L. ssp. <i>sericea</i>	redosier dogwood	

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CRCH	<i>Crataegus chrysoarpa</i> Ashe	fireberry hawthorn	
CRDO2	<i>Crataegus douglasii</i> Lindl.	black hawthorn	
CRAT	<i>Crepis atribarba</i> A. Heller	slender hawksbeard	
CREPI	<i>Crepis</i> L.	hawksbeard	
CYOF	<i>Cynoglossum officinale</i> L.	gypsyflower	yes
CYFR2	<i>Cystopteris fragilis</i> (L.) Bernh.	brittle bladderfern	
CYSC4	<i>Cytisus scoparius</i> (L.) Link	Scotch broom	yes
DAGL	<i>Dactylis glomerata</i> L.	orchardgrass	yes
DAUN	<i>Danthonia unispicata</i> (Thurb.) Munro ex Macoun	onespike danthonia	
DELI3	<i>Delphinium lineapetalum</i> Ewan	thinpetal larkspur	
DEPI	<i>Descurainia pinnata</i> (Walter) Britton	western tansymustard	
DIAR	<i>Dianthus armeria</i> L.	Deptford pink	yes
DIFU2	<i>Dipsacus fullonum</i> L.	Fuller's teasel	yes
DOCO	<i>Dodecatheon conjugens</i> Greene	Bonneville shootingstar	
DOPU	<i>Dodecatheon pulchellum</i> (Raf.) Merr.	darkthroat shootingstar	
DRCR2	<i>Draba crassifolia</i> Graham	snowbed draba	
DRABA	<i>Draba</i> L.	draba	
DRVE2	<i>Draba verna</i> L.	spring draba	yes
ECVU	<i>Echium vulgare</i> L.	common viper's bugloss	yes
ELAN	<i>Elaeagnus angustifolia</i> L.	Russian olive	yes
ELPA3	<i>Eleocharis palustris</i> (L.) Roem. & Schult.	common spikerush	
ELEOC	<i>Eleocharis</i> R. Br.	spikerush	
ELELE	<i>Elymus elymoides</i> (Raf.) Swezey ssp. <i>elymoides</i>	squirreltail	
ELGL	<i>Elymus glaucus</i> Buckley	blue wildrye	
ELYMU	<i>Elymus</i> L.	wildrye	
ELRE4	<i>Elymus repens</i> (L.) Gould	quackgrass	yes
EPBR3	<i>Epilobium brachycarpum</i> C. Presl	tall annual willowherb	
EPCI	<i>Epilobium ciliatum</i> Raf.	fringed willowherb	
EPILO	<i>Epilobium</i> L.	willowherb	
EPMI	<i>Epilobium minutum</i> Lindl. ex Lehm.	chaparral willowherb	
EQAR	<i>Equisetum arvense</i> L.	field horsetail	
EQHY	<i>Equisetum hyemale</i> L.	scouringrush horsetail	
EQLA	<i>Equisetum laevigatum</i> A. Braun	smooth horsetail	
ERHY	<i>Eragrostis hypnoides</i> (Lam.) Britton, Sterns & Poggenb.	teal lovegrass	
ERNA10	<i>Ericameria nauseosa</i> (Pall. ex Pursh) G.L. Nesom & Baird	rubber rabbitbrush	
ERCO4	<i>Erigeron compositus</i> Pursh	cutleaf daisy	
ERCOCzz	<i>Erigeron compositus</i> Pursh var. <i>compositus</i>	tomatillo	
ERCO5	<i>Erigeron corymbosus</i> Nutt.	longleaf fleabane	
ERFI2	<i>Erigeron filifolius</i> (Hook.) Nutt.	threadleaf fleabane	
ERIGE2	<i>Erigeron</i> L.	fleabane	
ERLI	<i>Erigeron linearis</i> (Hook.) Piper	desert yellow fleabane	
ERPU2	<i>Erigeron pumilus</i> Nutt.	shaggy fleabane	

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ERPUG	<i>Erigeron pumilus</i> Nutt. ssp. <i>intermedius</i> Cronquist var. <i>gracilior</i> Cronquist	shaggy fleabane	
ERCO12	<i>Eriogonum compositum</i> Douglas ex Benth.	arrowleaf buckwheat	
ERHE2	<i>Eriogonum heracleoides</i> Nutt.	parsnipflower buckwheat	
ERNI2	<i>Eriogonum niveum</i> Douglas ex Benth.	snow buckwheat	
ERUM	<i>Eriogonum umbellatum</i> Torr.	sulphur-flower buckwheat	
ERCI6	<i>Erodium cicutarium</i> (L.) L'Hér. ex Aiton	redstem stork's bill	yes
ERO3	<i>Erysimum occidentale</i> (S. Watson) B.L. Rob.	pale wallflower	
ESCA2	<i>Eschscholzia californica</i> Cham.	California poppy	yes
EUES	<i>Euphorbia esula</i> L.	leafy spurge	yes
EUPHO	<i>Euphorbia</i> L.	spurge	yes
EUMY2	<i>Euphorbia myrsinites</i> L.	myrtle spurge	yes
EUCO36	<i>Eurybia conspicua</i> (Lindl.) G.L. Nesom	western showy aster	
FEID	<i>Festuca idahoensis</i> Elmer	Idaho fescue	
FEOC	<i>Festuca occidentalis</i> Hook.	western fescue	
FEOV	<i>Festuca ovina</i> L.	sheep fescue	yes
FRVE	<i>Fragaria vesca</i> L.	woodland strawberry	
FRVI	<i>Fragaria virginiana</i> Duchesne	Virginia strawberry	
FRPU7	<i>Frangula purshiana</i> (DC.) Cooper	Cascara buckthorn	
FRALA	<i>Frasera albicaulis</i> Douglas ex Griseb. var. <i>albicaulis</i>	whitestem frasera	
FRLA	<i>Fraxinus latifolia</i> Benth.	Oregon ash	yes
FRPU2	<i>Fritillaria pudica</i> (Pursh) Spreng.	yellow fritillary	
GAAR	<i>Gaillardia aristata</i> Pursh	common gaillardia	
GATET2	<i>Galeopsis tetrahit</i> L. var. <i>tetrahit</i>	brittlestem hempenettle	yes
GAAP2	<i>Galium aparine</i> L.	stickywilly	yes
GABO2	<i>Galium boreale</i> L.	northern bedstraw	
GATR2	<i>Galium trifidum</i> L.	threepetal bedstraw	
GAYOP	<i>Gayophytum</i> A. Juss.	groundsmoke	
GADI2	<i>Gayophytum diffusum</i> Torr. & A. Gray	spreading groundsmoke	
GEVI2	<i>Geranium viscosissimum</i> Fisch. & C.A. Mey. ex C.A. Mey.	sticky purple geranium	
GEMA4	<i>Geum macrophyllum</i> Willd.	largeleaf avens	
GETR	<i>Geum triflorum</i> Pursh	old man's whiskers	
GLGR	<i>Glyceria grandis</i> S. Watson	American mannagrass	
GLST	<i>Glyceria striata</i> (Lam.) Hitchc.	fowl mannagrass	
GNPA	<i>Gnaphalium palustre</i> Nutt.	western marsh cudweed	
GRNE	<i>Gratiola neglecta</i> Torr.	clammy hedgehyssop	
GRNA	<i>Grindelia nana</i> Nutt.	Idaho gumweed	
GRSQ	<i>Grindelia squarrosa</i> (Pursh) Dunal	curlycup gumweed	
HACI4	<i>Hackelia ciliata</i> (Douglas ex Lehm.) I.M. Johnst.	Okanogan stickseed	
HACI2	<i>Hackelia cinerea</i> (Piper) I.M. Johnst.	gray stickseed	
HEHE	<i>Hedera helix</i> L.	English ivy	yes
HEMA80	<i>Heracleum maximum</i> Bartram	common cowparsnip	
HECO26	<i>Hesperostipa comata</i> (Trin. & Rupr.) Barkworth	needle and thread	
HEVIV	<i>Heterotheca villosa</i> (Pursh) Shinnars var. <i>villosa</i>	hairy false goldenaster	

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HECY2	<i>Heuchera cylindrica</i> Douglas ex Hook.	roundleaf alumroot	
HIAL2	<i>Hieracium albiflorum</i> Hook.	white hawkweed	
HISCA	<i>Hieracium scouleri</i> Hook. var. <i>albertinum</i> (Farr) G.W. Douglas & G.A. Allen		
HODI	<i>Holodiscus discolor</i> (Pursh) Maxim.	oceanspray	
HOJU	<i>Hordeum jubatum</i> L.	foxtail barley	
HYCA4	<i>Hydrophyllum capitatum</i> Douglas ex Benth.	ballhead waterleaf	
HYPE	<i>Hypericum perforatum</i> L.	common St. Johnswort	yes
IMCA	<i>Impatiens capensis</i> Meerb.	jewelweed	
IPAG	<i>Ipomopsis aggregata</i> (Pursh) V.E. Grant	scarlet gilia	
IRIS	<i>Iris</i> L.	iris	
IRMI	<i>Iris missouriensis</i> Nutt.	Rocky Mountain iris	
IRPS	<i>Iris pseudacorus</i> L.	paleyellow iris	yes
JUARL	<i>Juncus arcticus</i> Willd. ssp. <i>littoralis</i> (Engelm.) Hultén	mountain rush	
JUEFC2	<i>Juncus effusus</i> L. var. <i>conglomeratus</i> (L.) Engelm.	common rush	
JUFI	<i>Juncus filiformis</i> L.	thread rush	
JUNCU	<i>Juncus</i> L.	rush	
JUNIP	<i>Juniperus</i> L.	juniper	
KOMA	<i>Koeleria macrantha</i> (Ledeb.) Schult.	prairie Junegrass	
LACTU	<i>Lactuca</i> L.	lettuce	
LASE	<i>Lactuca serriola</i> L.	prickly lettuce	yes
LAOC	<i>Larix occidentalis</i> Nutt.	western larch	
LAAN81	<i>Lavandula angustifolia</i> Mill.	English lavender	yes
LEMI3	<i>Lemna minor</i> L.	common duckweed	
LEPID	<i>Lepidium</i> L.	pepperweed	yes
LERER	<i>Lewisia rediviva</i> Pursh var. <i>rediviva</i>	bitter root	
LECI4	<i>Leymus cinereus</i> (Scribn. & Merr.) A. Löve	basin wildrye	
LIDAD	<i>Linaria dalmatica</i> (L.) Mill. ssp. <i>dalmatica</i>	Dalmatian toadflax	yes
LILEL2	<i>Linum lewisii</i> Pursh var. <i>lewisii</i>	prairie flax	
LIPA5	<i>Lithophragma parviflorum</i> (Hook.) Nutt. ex Torr. & A. Gray	smallflower woodland-star	
LIRU4	<i>Lithospermum ruderales</i> Douglas ex Lehm.	western stoneseed	
LOAR5	<i>Logfia arvensis</i> (L.) Holub	field cottonrose	yes
LOAM	<i>Lomatium ambiguum</i> (Nutt.) J.M. Coult. & Rose	Wyeth biscuitroot	
LODI	<i>Lomatium dissectum</i> (Nutt.) Mathias & Constance	fernleaf biscuitroot	
LOGE2	<i>Lomatium geyeri</i> (S. Watson) J.M. Coult. & Rose	Geyer's biscuitroot	
LOMA3	<i>Lomatium macrocarpum</i> (Nutt. ex Torr. & A. Gray) J.M. Coult. & Rose	bigseed biscuitroot	
LOMAT	<i>Lomatium</i> Raf.	desertparsley	
LOTR2	<i>Lomatium triternatum</i> (Pursh) J.M. Coult. & Rose	nineleaf biscuitroot	
LONIC	<i>Lonicera</i> L.	honeysuckle	
LOTA	<i>Lonicera tatarica</i> L.	Tatarian honeysuckle	yes
LONE4	<i>Lotus nevadensis</i> (S. Watson) Greene	Nevada bird's-foot trefoil	
LOUNU	<i>Lotus unifoliolatus</i> (Hook.) Benth. var. <i>unifoliolatus</i>	American bird's-foot trefoil	

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LUAN	<i>Lunaria annua</i> L.	annual honesty	yes
LUAR3	<i>Lupinus argenteus</i> Pursh	silvery lupine	
LUPIN	<i>Lupinus</i> L.	lupine	
LULE3	<i>Lupinus leucophyllus</i> Douglas ex Lindl.	velvet lupine	
LULEE	<i>Lupinus leucophyllus</i> Douglas ex Lindl. ssp. <i>erectus</i> (L.F. Hend.) Harmon	velvet lupine	
LUPO2	<i>Lupinus polyphyllus</i> Lindl.	bigleaf lupine	
LUSE4	<i>Lupinus sericeus</i> Pursh	silky lupine	
LUSU5	<i>Lupinus sulphureus</i> Douglas ex Hook.	sulphur lupine	
LUZUL	<i>Luzula</i> DC.	woodrush	
LYCHN	<i>Lychnis</i> L.	campion	yes
LYUN	<i>Lycopus uniflorus</i> Michx.	northern bugleweed	
LYCI	<i>Lysimachia ciliata</i> L.	fringed loosestrife	
LYSIM	<i>Lysimachia</i> L.	yellow loosestrife	yes
LYVU	<i>Lysimachia vulgaris</i> L.	garden yellow loosestrife	yes
LYSA2	<i>Lythrum salicaria</i> L.	purple loosestrife	yes
MACA2	<i>Machaeranthera canescens</i> (Pursh) A. Gray	hoary tansyaster	
MADIA	<i>Madia</i> Molina	tarweed	
MAAQ2	<i>Mahonia aquifolium</i> (Pursh) Nutt.	hollyleaved barberry	
MARA7	<i>Maianthemum racemosum</i> (L.) Link	feathery false lily of the valley	
MAST4	<i>Maianthemum stellatum</i> (L.) Link	starry false lily of the valley	
MAPU	<i>Malus pumila</i> Mill.	paradise apple	yes
MAVE2	<i>Marsilea vestita</i> Hook. & Grev.	hairy waterclover	
MELU	<i>Medicago lupulina</i> L.	black medick	yes
MESA	<i>Medicago sativa</i> L.	alfalfa	yes
MEOF	<i>Melilotus officinalis</i> (L.) Lam.	yellow sweetclover	yes
MEAR4	<i>Mentha arvensis</i> L.	wild mint	
MEAL6	<i>Mentzelia albicaulis</i> (Hook.) Torr. & A. Gray	whitestem blazingstar	
MEDI	<i>Mentzelia dispersa</i> S. Watson	bushy blazingstar	
MELA2	<i>Mentzelia laevicaulis</i> (Hook.) Torr. & A. Gray	smoothstem blazingstar	
MELO4	<i>Mertensia longiflora</i> Greene	small bluebells	
MIGR	<i>Microsteris gracilis</i> (Hook.) Greene	slender phlox	
MIGU	<i>Mimulus guttatus</i> DC.	seep monkeyflower	
MOLI4	<i>Montia linearis</i> (Douglas ex Hook.) Greene	narrowleaf minerslettuce	
MYOSO	<i>Myosotis</i> L.	forget-me-not	
MYLA	<i>Myosotis laxa</i> Lehm.	bay forget-me-not	
MYSC	<i>Myosotis scorpioides</i> L.	true forget-me-not	yes
MYST2	<i>Myosotis stricta</i> Link ex Roem. & Schult.	strict forget-me-not	yes
MYAQ	<i>Myosoton aquaticum</i> (L.) Moench	giantchickweed	
NAOF	<i>Nasturtium officinale</i> W.T. Aiton	watercress	yes
NEBR	<i>Nemophila breviflora</i> A. Gray	basin nemophila	
NEMOP	<i>Nemophila</i> Nutt.	baby blue eyes	
NECA2	<i>Nepeta cataria</i> L.	catnip	yes
OLDOI	<i>Olsynium douglasii</i> (A. Dietr.) E.P. Bicknell var. <i>inflatum</i> (Suksd.) Cholewa & Douglass M. Hend.	inflated grasswidow	

Symbol	Scientific Name with Author	National Common Name	Exotic
OSBE	<i>Osmorhiza berteroi</i> DC.	sweetcicely	
PACA15	<i>Packera cana</i> (Hook.) W.A. Weber & A. Löve	woolly groundsel	
PACA6	<i>Panicum capillare</i> L.	witchgrass	yes
PADI	<i>Panicum dichotomiflorum</i> Michx.	fall panicgrass	yes
PANIC	<i>Panicum</i> L.	panicgrass	yes
PARTH3	<i>Parthenocissus</i> Planch.	creeper	yes
PECO6	<i>Penstemon confertus</i> Douglas ex Lindl.	yellow penstemon	
PEDE4	<i>Penstemon deustus</i> Douglas ex Lindl.	scabland penstemon	
PEFR3	<i>Penstemon fruticosus</i> (Pursh) Greene	bush penstemon	
PERI	<i>Penstemon richardsonii</i> Douglas ex Lindl.	cutleaf beardtongue	
PENST	<i>Penstemon</i> Schmidel	beardtongue	
PEGA3	<i>Perideridia gairdneri</i> (Hook. & Arn.) Mathias	Gardner's yampah	
PHHA	<i>Phacelia hastata</i> Douglas ex Lehm.	silverleaf phacelia	
PHAR3	<i>Phalaris arundinacea</i> L.	reed canarygrass	yes
PHLE4	<i>Philadelphus lewisii</i> Pursh	Lewis' mock orange	
PHPR3	<i>Phleum pratense</i> L.	timothy	yes
PHCA7	<i>Phlox caespitosa</i> Nutt.	tufted phlox	
PHLOX	<i>Phlox</i> L.	phlox	
PHLO2	<i>Phlox longifolia</i> Nutt.	longleaf phlox	
PHGEG	<i>Physaria geyeri</i> (Hook.) A. Gray var. <i>geyeri</i>	Geyer's twinpod	
PHCA11	<i>Physocarpus capitatus</i> (Pursh) Kuntze	Pacific ninebark	
PHMA5	<i>Physocarpus malvaceus</i> (Greene) Kuntze	mallow ninebark	
PIPO	<i>Pinus ponderosa</i> C. Lawson	ponderosa pine	
PIEL2	<i>Piperia elegans</i> (Lindl.) Rydb.	elegant piperia	
PIELE4	<i>Piperia elegans</i> (Lindl.) Rydb. ssp. <i>elegans</i>	elegant piperia	
PIUN3	<i>Piperia unalascensis</i> (Spreng.) Rydb.	slender-spire orchid	
PLTE	<i>Plagiobothrys tenellus</i> (Nutt. ex Hook.) A. Gray	Pacific popcornflower	
PLLA	<i>Plantago lanceolata</i> L.	narrowleaf plantain	yes
PLMA2	<i>Plantago major</i> L.	common plantain	yes
PLPA2	<i>Plantago patagonica</i> Jacq.	woolly plantain	
PLECT	<i>Plectritis</i> (Lindl.) DC.	seablush	
POBU	<i>Poa bulbosa</i> L.	bulbous bluegrass	yes
POA	<i>Poa</i> L.	bluegrass	
POPA2	<i>Poa palustris</i> L.	fowl bluegrass	
POPR	<i>Poa pratensis</i> L.	Kentucky bluegrass	yes
POSE	<i>Poa secunda</i> J. Presl	Sandberg bluegrass	
POWH2	<i>Poa wheeleri</i> Vasey	Wheeler's bluegrass	
POMI	<i>Polemonium micranthum</i> Benth.	annual polemonium	
POAM8	<i>Polygonum amphibium</i> L.	water knotweed	
POAME	<i>Polygonum amphibium</i> L. var. <i>emersum</i> Michx.	longroot smartweed	
POCU6	<i>Polygonum cuspidatum</i> Siebold & Zucc.	Japanese knotweed	yes
PODO4	<i>Polygonum douglasii</i> Greene	Douglas' knotweed	
POLYG4	<i>Polygonum</i> L.	knotweed	
POPE3	<i>Polygonum persicaria</i> L.	spotted ladythumb	yes
POPO3	<i>Polygonum polycnemoides</i> Jaubert & Spach	manyleg knotweed	
POAL7	<i>Populus alba</i> L.	white poplar	yes

Symbol	Scientific Name with Author	National Common Name	Exotic
POBAT	<i>Populus balsamifera</i> L. ssp. <i>trichocarpa</i> (Torr. & A. Gray ex Hook.) Brayshaw	black cottonwood	
POTR5	<i>Populus tremuloides</i> Michx.	quaking aspen	
POOL	<i>Portulaca oleracea</i> L.	little hogweed	yes
POARC	<i>Potentilla arguta</i> Pursh ssp. <i>convallaria</i> (Rydb.) D.D. Keck	cream cinquefoil	
POGL9	<i>Potentilla glandulosa</i> Lindl.	sticky cinquefoil	
POGRF	<i>Potentilla gracilis</i> Douglas ex Hook. var. <i>flabelliformis</i> (Lehm.) Nutt. ex Torr. & A. Gray	slender cinquefoil	
POTEN	<i>Potentilla</i> L.	cinquefoil	
PORE5	<i>Potentilla recta</i> L.	sulphur cinquefoil	yes
PRTR4	<i>Prosartes trachycarpa</i> S. Watson	roughfruit fairybells	
PREM	<i>Prunus emarginata</i> (Douglas ex Hook.) D. Dietr.	bitter cherry	
PRPE2	<i>Prunus pensylvanica</i> L. f.	pin cherry	
PRVI	<i>Prunus virginiana</i> L.	chokecherry	
PSCAT	<i>Pseudognaphalium canescens</i> (DC.) W.A. Weber ssp. <i>thermale</i> (E.E. Nelson) Kartesz	Wright's cudweed	
PSSP6	<i>Pseudoroegneria spicata</i> (Pursh) A. Löve	bluebunch wheatgrass	
PSME	<i>Pseudotsuga menziesii</i> (Mirb.) Franco	Douglas-fir	
PTAQ	<i>Pteridium aquilinum</i> (L.) Kuhn	western brackenfern	
PTAN2	<i>Pterospora andromedea</i> Nutt.	woodland pinedrops	
PUTR2	<i>Purshia tridentata</i> (Pursh) DC.	antelope bitterbrush	
PYCA3	<i>Pyrrcoma carthamoides</i> Hook.	largeflower goldenweed	
PYCAC2	<i>Pyrrcoma carthamoides</i> Hook. var. <i>carthamoides</i>	largeflower goldenweed	
RAGL	<i>Ranunculus glaberrimus</i> Hook.	sagebrush buttercup	
RARE3	<i>Ranunculus repens</i> L.	creeping buttercup	yes
RHGL	<i>Rhus glabra</i> L.	smooth sumac	
RIAU	<i>Ribes aureum</i> Pursh	golden currant	
RICE	<i>Ribes cereum</i> Douglas	wax currant	
ROPS	<i>Robinia pseudoacacia</i> L.	black locust	yes
ROIS2	<i>Rorippa islandica</i> (Oeder) Borbás	northern marsh yellowcress	
ROPA2	<i>Rorippa palustris</i> (L.) Besser	bog yellowcress	
ROSA5	<i>Rosa</i> L.	rose	
RONU	<i>Rosa nutkana</i> C. Presl	Nootka rose	
ROWO	<i>Rosa woodsii</i> Lindl.	Woods' rose	
RULE	<i>Rubus leucodermis</i> Douglas ex Torr. & A. Gray	whitebark raspberry	
RUPA	<i>Rubus parviflorus</i> Nutt.	thimbleberry	
RUAC3	<i>Rumex acetosella</i> L.	common sheep sorrel	yes
RUCR	<i>Rumex crispus</i> L.	curly dock	yes
SALA2	<i>Sagittaria latifolia</i> Willd.	broadleaf arrowhead	
SAEX	<i>Salix exigua</i> Nutt.	narrowleaf willow	
SALIX	<i>Salix</i> L.	willow	
SALUL	<i>Salix lucida</i> Muhl. ssp. <i>lasiandra</i> (Benth.) E. Murray	Pacific willow	
SAME2	<i>Salix melanopsis</i> Nutt.	dusky willow	
SAPR3	<i>Salix prolixa</i> Andersson	MacKenzie's willow	

Symbol	Scientific Name with Author	National Common Name	Exotic
SASC	<i>Salix scouleriana</i> Barratt ex Hook.	Scouler's willow	
SAKA	<i>Salsola kali</i> L.	Russian thistle	yes
SADO4	<i>Salvia dorrii</i> (Kellogg) Abrams	purple sage	
SANIC5	<i>Sambucus nigra</i> L. ssp. <i>cerulea</i> (Raf.) R. Bolli	blue elderberry	
SAOF4	<i>Saponaria officinalis</i> L.	bouncingbet	yes
SAIN4	<i>Saxifraga integrifolia</i> Hook.	wholeleaf saxifrage	
SAOC4	<i>Saxifraga occidentalis</i> S. Watson	Alberta saxifrage	
SCPH	<i>Schedonorus phoenix</i> (Scop.) Holub	tall fescue	yes
SCMI2	<i>Scirpus microcarpus</i> J. Presl & C. Presl	panicled bulrush	
SCAN3	<i>Scutellaria angustifolia</i> Pursh	narrowleaf skullcap	
SCLA2	<i>Scutellaria lateriflora</i> L.	blue skullcap	
SECE	<i>Secale cereale</i> L.	cereal rye	yes
SEDUM	<i>Sedum</i> L.	stonecrop	
SEST2	<i>Sedum stenopetalum</i> Pursh	wormleaf stonecrop	
SELAG	<i>Selaginella</i> P. Beauv.	spikemoss	
SENEC	<i>Senecio</i> L.	ragwort	
SIDO	<i>Silene douglasii</i> Hook.	Douglas's catchfly	
SILEN	<i>Silene</i> L.	catchfly	
SIME	<i>Silene menziesii</i> Hook.	Menzies' campion	
SIVU	<i>Silene vulgaris</i> (Moench) Garcke	maidenstears	yes
SIAL2	<i>Sisymbrium altissimum</i> L.	tall tumbled mustard	yes
SODU	<i>Solanum dulcamara</i> L.	climbing nightshade	yes
SOLlzz	<i>Solanum ligustrinum</i> Lodd.	dwarf mountain fleabane	yes
SOLY2	<i>Solanum lycopersicum</i> L.	tomato	yes
SOCA6	<i>Solidago canadensis</i> L.	Canada goldenrod	
SOLID	<i>Solidago</i> L.	goldenrod	
SOMU	<i>Solidago multiradiata</i> Aiton	Rocky Mountain goldenrod	
SOAU	<i>Sorbus aucuparia</i> L.	European mountain ash	yes
SORBU	<i>Sorbus</i> L.	mountain ash	
SPPE	<i>Spartina pectinata</i> Bosc ex Link	prairie cordgrass	
SPRU	<i>Spergularia rubra</i> (L.) J. Presl & C. Presl	red sandspurry	yes
SPBE2	<i>Spiraea betulifolia</i> Pall.	white spirea	
SPDO	<i>Spiraea douglasii</i> Hook.	rose spirea	
SPCR	<i>Sporobolus cryptandrus</i> (Torr.) A. Gray	sand dropseed	
STRI	<i>Stachys rigida</i> Nutt. ex Benth.	rough hedgenettle	
STLO2	<i>Stellaria longipes</i> Goldie	longstalk starwort	
STME2	<i>Stellaria media</i> (L.) Vill.	common chickweed	yes
STNI	<i>Stellaria nitens</i> Nutt.	shiny chickweed	
STMI13	<i>Stephanomeria minor</i> (Hook.) Nutt.	lesser wirelettuce	
SYAL	<i>Symphoricarpos albus</i> (L.) S.F. Blake	common snowberry	
SYERP2	<i>Symphotrichum ericoides</i> (L.) G.L. Nesom var. <i>pansum</i> (S.F. Blake) G.L. Nesom	manyflowered aster	
SYFOP	<i>Symphotrichum foliaceum</i> (Lindl. ex DC.) G.L. Nesom var. <i>parryi</i> (D.C. Eaton) G.L. Nesom	Parry's aster	
SYLAG	<i>Symphotrichum laeve</i> (L.) A. Löve & D. Löve var. <i>geyeri</i> (A. Gray) G.L. Nesom	Geyer's aster	

Symbol	Scientific Name with Author	National Common Name	Exotic
SYMPH4	<i>Symphotrichum</i> Nees	aster	
SYSU4	<i>Symphotrichum subspicatum</i> (Nees) G.L. Nesom	Douglas aster	
SYVU	<i>Syringa vulgaris</i> L.	lilac	yes
TAVU	<i>Tanacetum vulgare</i> L.	common tansy	yes
TAOF	<i>Taraxacum officinale</i> F.H. Wigg.	common dandelion	yes
THIN6	<i>Thinopyrum intermedium</i> (Host) Barkworth & D.R. Dewey	intermediate wheatgrass	yes
TORY	<i>Toxicodendron rydbergii</i> (Small ex Rydb.) Greene	western poison ivy	
TRDU	<i>Tragopogon dubius</i> Scop.	yellow salsify	yes
TRTE	<i>Tribulus terrestris</i> L.	puncturevine	yes
TRAR4	<i>Trifolium arvense</i> L.	rabbitfoot clover	yes
TRPR2	<i>Trifolium pratense</i> L.	red clover	yes
TRPE3	<i>Trillium petiolatum</i> Pursh	Idaho trillium	
TRGRG2	<i>Triteleia grandiflora</i> Lindl. var. <i>grandiflora</i>	largeflower triteleia	
TYLA	<i>Typha latifolia</i> L.	broadleaf cattail	
ULAM	<i>Ulmus americana</i> L.	American elm	yes
ULMUS	<i>Ulmus</i> L.	elm	
ULPU	<i>Ulmus pumila</i> L.	Siberian elm	yes
URDI	<i>Urtica dioica</i> L.	stinging nettle	
VEDU	<i>Ventenata dubia</i> (Leers) Coss.	North Africa grass	yes
VEBL	<i>Verbascum blattaria</i> L.	moth mullein	yes
VETH	<i>Verbascum thapsus</i> L.	common mullein	yes
VEBR	<i>Verbena bracteata</i> Cav. ex Lag. & Rodr.	bigbract verbena	
VEAN2	<i>Veronica anagallis-aquatica</i> L.	water speedwell	
VERON	<i>Veronica</i> L.	speedwell	
VEPE2	<i>Veronica peregrina</i> L.	neckweed	
VIAMA3	<i>Vicia americana</i> Muhl. ex Willd. ssp. <i>americana</i>	American vetch	
VICIA	<i>Vicia</i> L.	vetch	
VIVI	<i>Vicia villosa</i> Roth	winter vetch	yes
VIMI2	<i>Vinca minor</i> L.	common periwinkle	yes
VIOLA	<i>Viola</i> L.	violet	
VULPI	<i>Vulpia</i> C.C. Gmel.	fescue	
WOOR	<i>Woodsia oregana</i> D.C. Eaton	Oregon cliff fern	
WYAM	<i>Wyethia amplexicaulis</i> (Nutt.) Nutt.	mule-ears	
XAST	<i>Xanthium strumarium</i> L.	rough cocklebur	yes
ZESE80	<i>Zelkova serrata</i> (Thunb.) Makino	Japanese zelkova	yes
ZIVE	<i>Zigadenus venenosus</i> S. Watson	meadow deathcamas	

Discussion and Recommendations

Noxious Weeds

There are significant occurrences of noxious weeds in the park. Populations of noxious weeds were not mapped as they occur throughout the park in patches too numerous to map. They also occur as dispersed individuals and in diffuse patches. The noxious weeds that we observed in each vegetation community

polygon are recorded in the corresponding record in the vegetation polygon database for the park, which is included in this report as Appendix E.

RSP has a serious problem with noxious weeds. It has the greatest number of noxious weeds of any park we have surveyed since 2004. Many of these weeds are highly dispersed and they will be difficult and expensive to control with manual, mechanical or chemical control mechanisms. We recognize that RSP was an early adopter of biocontrols that target some of the weeds found in the park. We recommend more use of biological controls, which can best target these widely dispersed weed populations. We also recommend monitoring, research and adaptive management to increase the effectiveness of a biocontrol program.

Fortunately, we did not find any Class A weeds during our surveys. Given the large number of Class B weeds found at the park, regular surveys should be conducted for Class A or B weeds and these should be immediately eradicated, when and if they are found.

A list of the noxious weeds is presented in Table 5. We found 18 Class B weeds and 10 Class C weeds.

Table 5. State listed noxious weeds at RSP

Symbol	Scientific Name with Author	National Common Name	State Weed Status
ANOF	<i>Anchusa officinalis</i> L.	common bugloss	B
BASC5	<i>Bassia scoparia</i> (L.) A.J. Scott	burningbush	B
BEIN2	<i>Berteroa incana</i> (L.) DC.	hoary alyssum	B
CEDI3	<i>Centaurea diffusa</i> Lam.	diffuse knapweed	B
CESO3	<i>Centaurea solstitialis</i> L.	yellow star-thistle	B
CESTM	<i>Centaurea stoebe</i> L. ssp. <i>micranthos</i> (Gugler) Hayek	spotted knapweed	B
CHJU	<i>Chondrilla juncea</i> L.	rush skeletonweed	B
CYOF	<i>Cynoglossum officinale</i> L.	gypsyflower	B
CYSC4	<i>Cytisus scoparius</i> (L.) Link	Scotch broom	B
ECVU	<i>Echium vulgare</i> L.	common viper's bugloss	B
EUES	<i>Euphorbia esula</i> L.	leafy spurge	B
EUMY2	<i>Euphorbia myrsinites</i> L.	myrtle spurge	B
LIDAD	<i>Linaria dalmatica</i> (L.) Mill. ssp. <i>dalmatica</i>	Dalmatian toadflax	B
LYVU	<i>Lysimachia vulgaris</i> L.	garden yellow loosestrife	B
LYSA2	<i>Lythrum salicaria</i> L.	purple loosestrife	B
POCU6	<i>Polygonum cuspidatum</i> Siebold & Zucc.	Japanese knotweed	B
PORE5	<i>Potentilla recta</i> L.	sulphur cinquefoil	B
TRTE	<i>Tribulus terrestris</i> L.	puncturevine	B
ARAB3	<i>Artemisia absinthium</i> L.	absinthium	C
CIAR4	<i>Cirsium arvense</i> (L.) Scop.	Canada thistle	C
CIVU	<i>Cirsium vulgare</i> (Savi) Ten.	bull thistle	C
COAR4	<i>Convolvulus arvensis</i> L.	field bindweed	C
HEHE	<i>Hedera helix</i> L.	English ivy	C
HYPE	<i>Hypericum perforatum</i> L.	common St. Johnswort	C
IRPS	<i>Iris pseudacorus</i> L.	paleyellow iris	C
PHAR3	<i>Phalaris arundinacea</i> L.	reed canarygrass	C
SECE	<i>Secale cereale</i> L.	cereal rye	C
TAVU	<i>Tanacetum vulgare</i> L.	common tansy	C

Ecological Condition

The ecological condition of RSP varies from excellent to poor and developed (see Appendix B for definitions). Most of the park is in fair condition. A map of the overall ecological condition is presented in Figure 11. The long history of human occupation of this area has degraded many natural communities and aided the spread of non-native plants. The abundance of noxious weeds and other non-native species is the primary reason that many areas are rated as fair or poor ecological condition. The off road vehicle recreation area in the western central portion of the park is very highly disturbed, often containing little vegetation. It is entirely in poor ecological condition. This area may be leading to the spread of noxious weeds outside the park, through seeds and plant parts becoming caught in the tires and carriage of the vehicles.

Some of the forests in the park are rated as excellent condition. Also, many of the cliff/rock outcrop and talus communities are in excellent condition.

Most of the plant species found in the park are native to Washington State. We identified 120 non-native species (29%) out of 410 plant taxa identified to the rank of species.

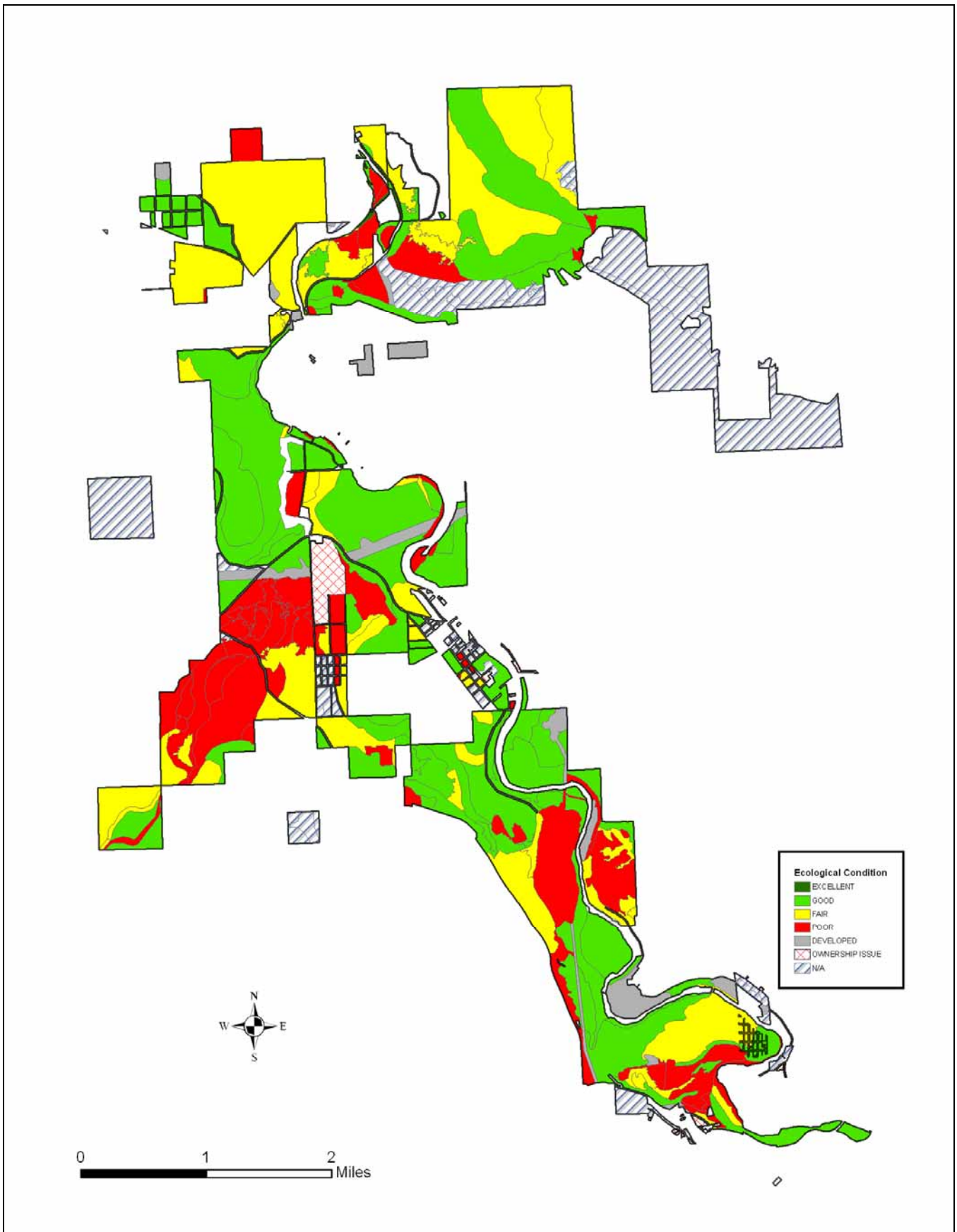


Figure 11. Ecological condition ranks of vegetation polygons at RSP.

Restoration Opportunities

There are many restoration opportunities in RSP. The most important restoration opportunity is to restore a natural fire regime to the dry ponderosa pine forests that dominate the park. Many of these stands have suffered from fire exclusion and they are very densely stocked with young pine seedlings and saplings. Removal of these seedlings and saplings through use of prescribed fire and/or thinning should remain a high priority for park managers. Otherwise, the pine forests that characterize the park will suffer from progressive degradation. They will also be increasingly subject to wildfires, such as those that have swept many areas of the park in the last several decades. We recognize that RSP staff has actively engaged in forest health improvement and fuel reduction activities in the past. We recommend continuation of these activities and more use of prescribed fire to reduce the deep needle and chip layers that have resulted from thinning, chipping and natural forest growth.

Restoration of disturbed areas dominated by noxious weeds should also be a high priority in the park. As state park staff recognize, controlling noxious weeds is only a beginning to a long-term plan for restoration of disturbed areas. RSP has a long history of use of biocontrol agents for several noxious weed species. We applaud those efforts and urge more use of biocontrols for weed species that have yet to be targeted. Also, RSP appears to be a good site for scientific research on the effectiveness of various biocontrols, as it has a long history of use. Adaptive management approaches guided by this research may increase the effectiveness of the biocontrol measures. Another essential component of a long-term restoration strategy includes replanting disturbed areas with suitable native vegetation.

Other Recommendations

Our primary recommendation is to undertake a concerted effort to research, map and establish a current, accurate ownership boundary for the park. Previous efforts have been grossly wanting. The currently available ownership boundaries are a detriment to park management and work consultants (such as PBI) and to the public. It is impossible to know with a high degree of accuracy whether one is in the park or not. In many places, the park boundary is not marked or fenced in any manner. We also recommend resolution of issues related to private use and occupation of park property, if and where they exist.

GIS Products Produced

Associated with this report are polygon layers created by PBI depicting the vegetation community types mapped in the RSP project area. The datasets have been converted into ESRI shapefile formats and provided to WSPRC. 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 - Property Boundary Issues

Pacific Biodiversity Institute submitted a proposal to conduct vegetation and rare plant surveys at RSP based on a GIS ownership boundary and associated acreage that changed radically during the course of the project. We bid on the project and conducted our first surveys based on the ownership information we were provided by WSPRC in the late winter/early spring of 2008. On May 14, 2008 we received a new ownership boundary from WSPRC, owing to new information about the park boundaries becoming available to State Park staff. The change in the ownership (and thus survey) boundaries by WSPRC after the bidding process and midway during the course of our surveys caused us to incur significantly higher costs than we anticipated at the time of our bid. The addition of substantial new acreage to the survey area also created a situation where we were not been able to survey adequately some of the added portions of the project area. We also surveyed areas that were once in the park boundary but are now outside the current park boundary – therefore we expended effort to conduct surveys that are potentially of no use for the completed project.

Additionally, other complications arose from the switch to the new park boundary information. The original boundary represented a consolidated ownership pattern, with the park comprising several large blocks of land (Figure A1). The new survey boundary presented the park as a set of many highly fragmented polygons with interspersed non-park ownership (Figure A2). This presented a variety of dilemmas. First, we had to remap the vegetation polygons we had already delineated, based on the new, highly fragmented ownership pattern. Second, we had to plan and execute survey routes to many polygons and park segments that were often surrounded by non-park ownership. The interspersed non-park ownership, and the lack of marking of park boundaries on the ground, created a situation where our field crews never knew whether they were on public land or trespassing on private property. The same situation exists today for park staff and contractors working at RSP.

Because WSPRC was not able to execute a contract amendment to cover the additional costs involved in adding acreage to the survey area and radically changing the boundary of the survey area, we have not been able to complete a rare plant and vegetation survey of RSP to our professional standards and satisfaction. This report constitutes a provisional report, based on our remaining uncertainty of the park ownership boundaries, the significantly expanded survey area and the expansion of our scope of work without a corresponding expansion of our contract budget. Hence, we consider this provisional report to have shortcomings that may hamper park planning efforts, management decisions, and any other substantial use. It leaves hanging many questions related to park ownership, rare plant populations, and ecological condition of important segments of the park. It leaves unsurveyed some parts of RSP, which were not included in the original contract boundary. However, due to the great deal of remaining uncertainty about the reliability of both the original ownership data layer and the new data layer, we cannot resolve whether these areas are within the park or not, at this point in time.

The above said, this provisional report does contain useful information about the majority of vegetation polygons and plant communities found at Riverside State Park. Where surveys occurred, the report yields valuable information about the ecological condition of the park and the presence of noxious weeds and other non-native, invasive plants. The report also contains significant new information about the rare plant populations in the portions of the park that we surveyed.

Comparison of original and new park ownership layers

The area of the park in the original GIS data provide by WSPRC is 7272 acres and is illustrated by Figure A1.

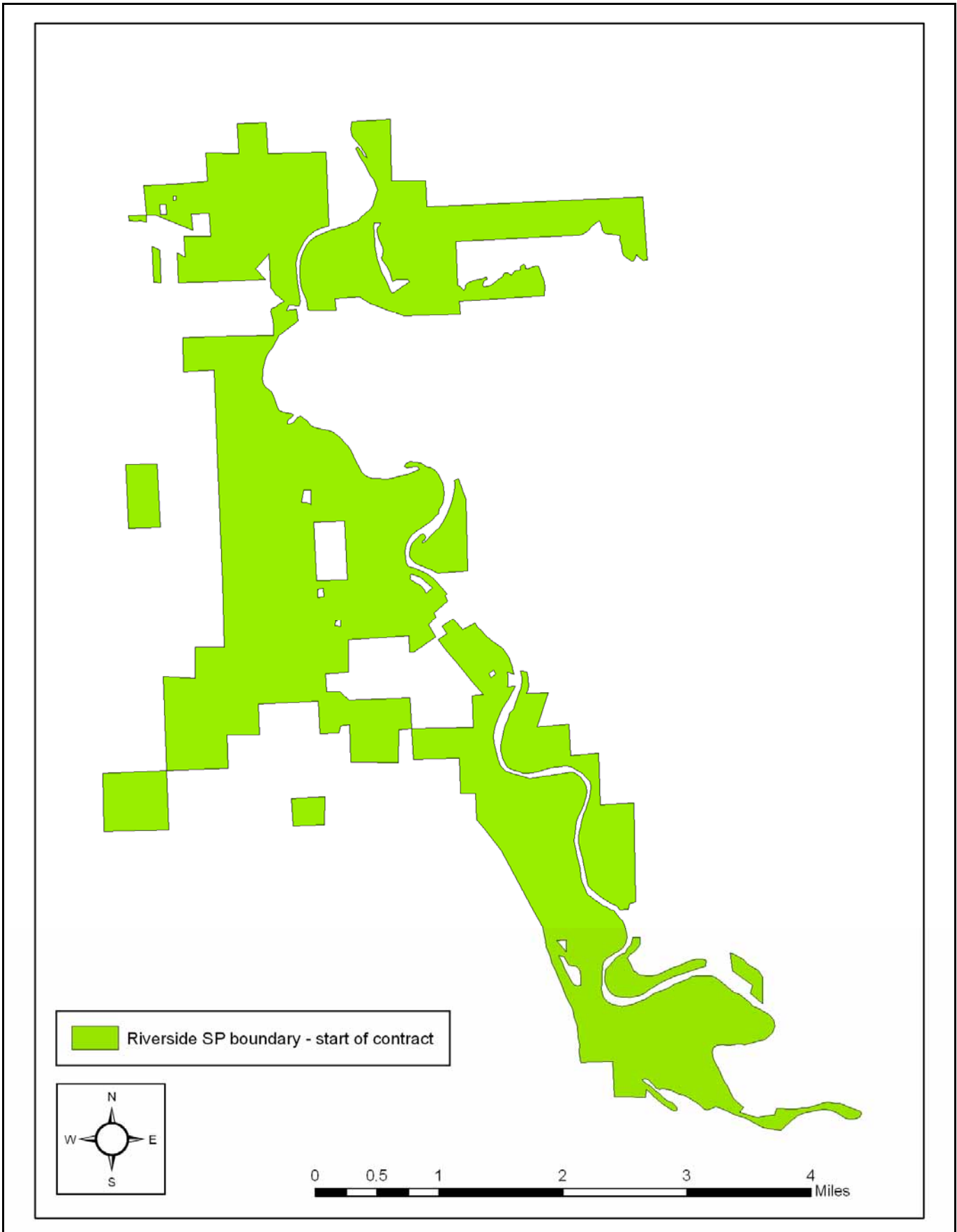


Figure A1. Ownership of RSP, used to develop PBI's bid and proposal, as provided by WSPRC at start of contract.

The ownership of the park in the updated GIS layer provide by WSPRC in May was 8821 acres and is illustrated by Figure A2. The ownership of the park with the original layer overlaid on the updated GIS boundary data provide by WSPRC is illustrated by Figure A3. Note that substantial acreage was added to the park ownership layer (and therefore to our survey area) in the new ownership layer. The total area of both ownership layers combined (GIS union) is 9393 acres.

The new boundary also deleted significant acreage that was within the original boundary (Figure A4-A6). The area in the old ownership layer that is not included in the new ownership layer is 572 acres. All of these areas had already been mapped by PBI and some of these areas had already been surveyed by the time that we received the revised park boundary. It is worth noting that many of the areas that were deleted from the original ownership layer appear (on the ground) to be well within the area historically considered to be RSP and are currently patrolled, managed and otherwise controlled by the park (Figures A4-A7). Most of these “deleted areas” are considered part of the park by WSPRC staff based at RSP.

When we examined the new ownership boundary on the ground, we found numerous cases where it appears to be in obvious error (Figure A4-A12). Some of these areas are within the core of the park (Figures A4-A7) where there is non-park ownership shown in the new GIS data in areas that have always been considered part of the core of the park. Other obvious errors in the new GIS ownership layer are illustrated by Figures A7-A12. In these instances, park ownership appears to overlap privately owned and managed lands. Either the ownership boundary is incorrect, or there is substantial private use of state park lands taking place.

It was not within the scope of our contract to document these ownership issues, and we only do so to illustrate the situation at RSP.

The new ownership GIS layer was provided to PBI by WSPRC over a month after we started work on this project. This map still has many inadequacies and creates more questions than it answers. The many unresolved issues with the new ownership boundary caused PBI problems and extra work throughout our surveys, analyses and reporting. These issues appear to be largely an artifact of unfinished work on the part of WSPRC staff.

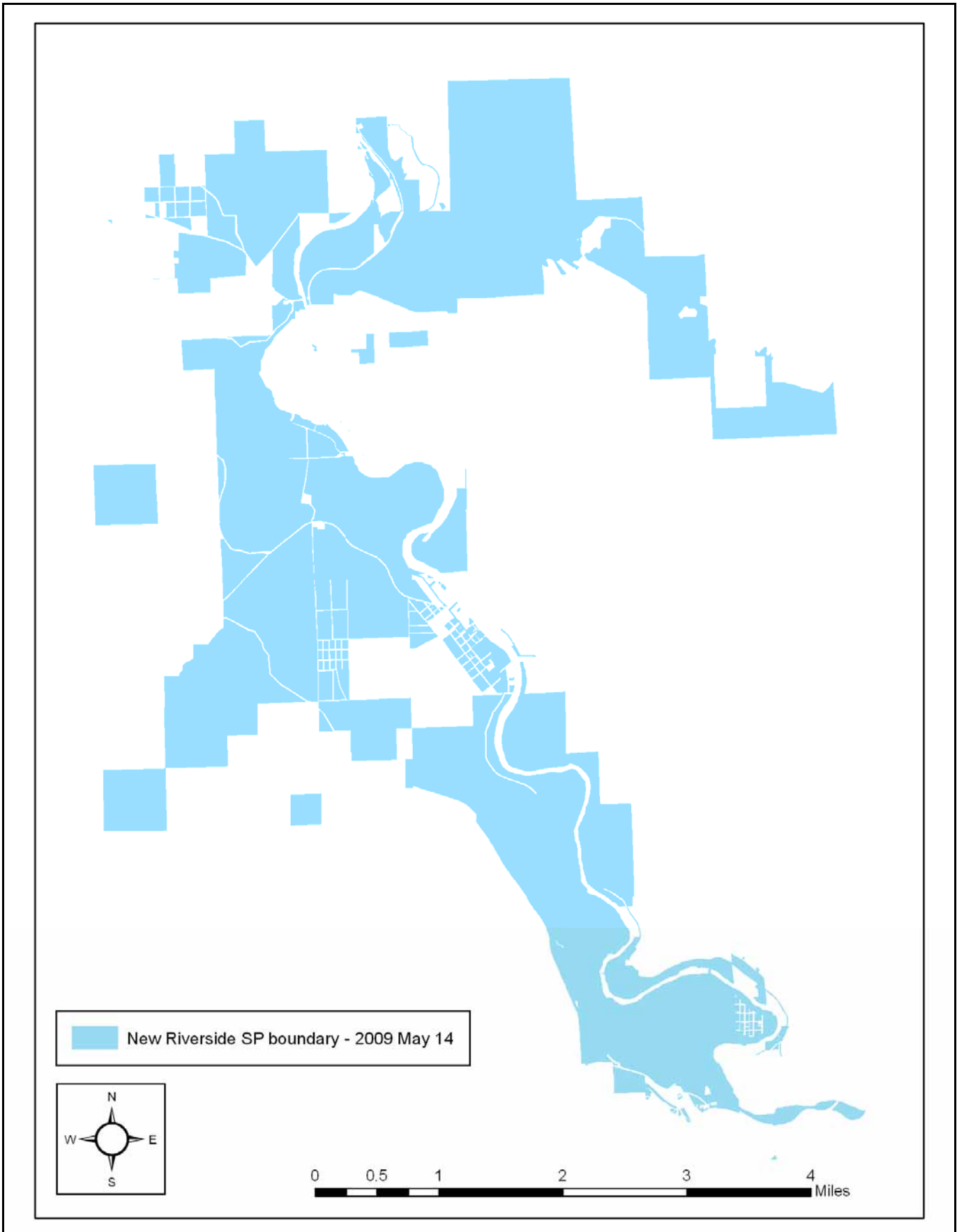


Figure A2. Revised ownership of RSP, provided by WSPRC on 2009 May 14.

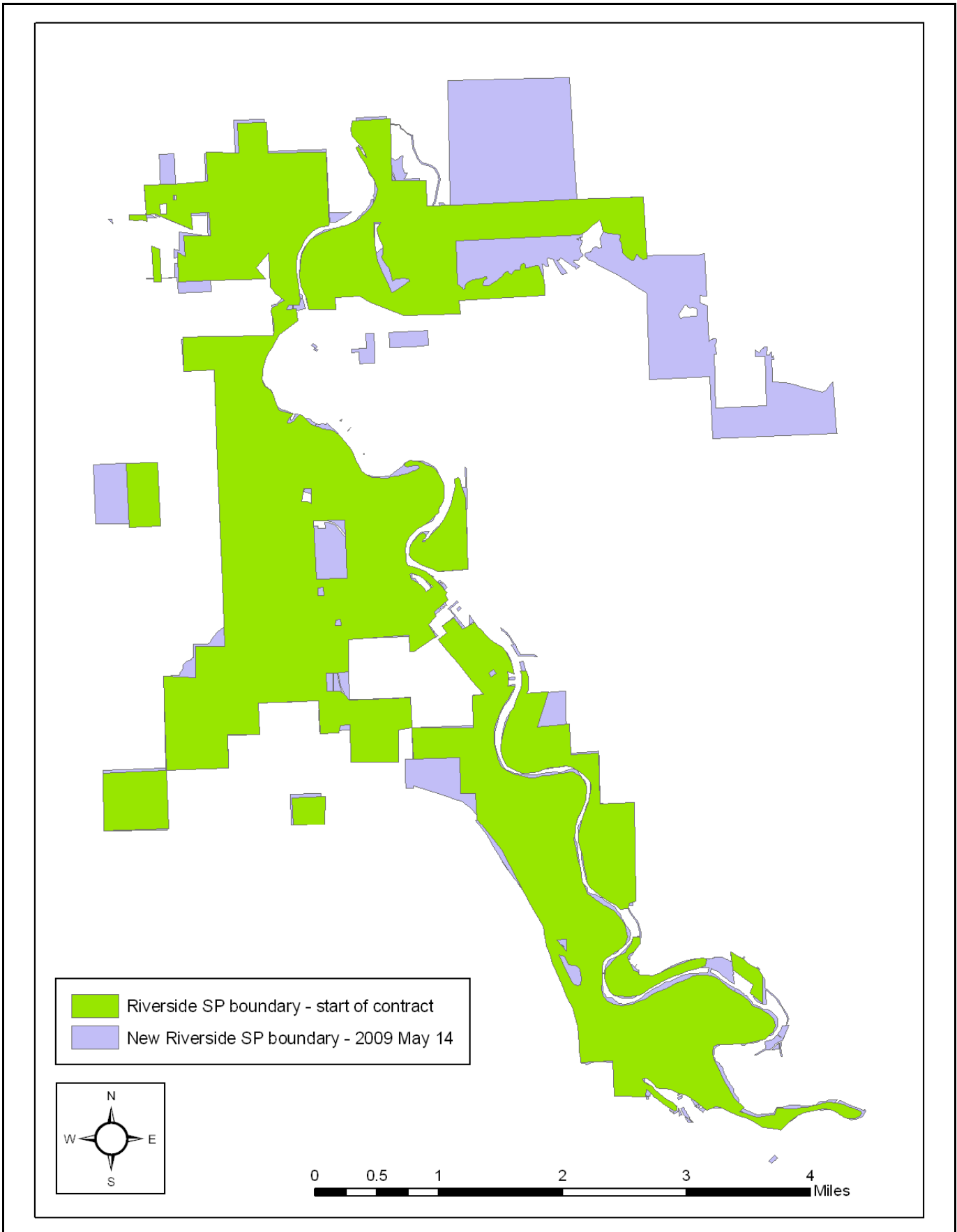


Figure A3. Revised ownership of RSP overlaid on original layer of RSP. Blue areas indicate added survey areas, not in original PBI bid or contract.

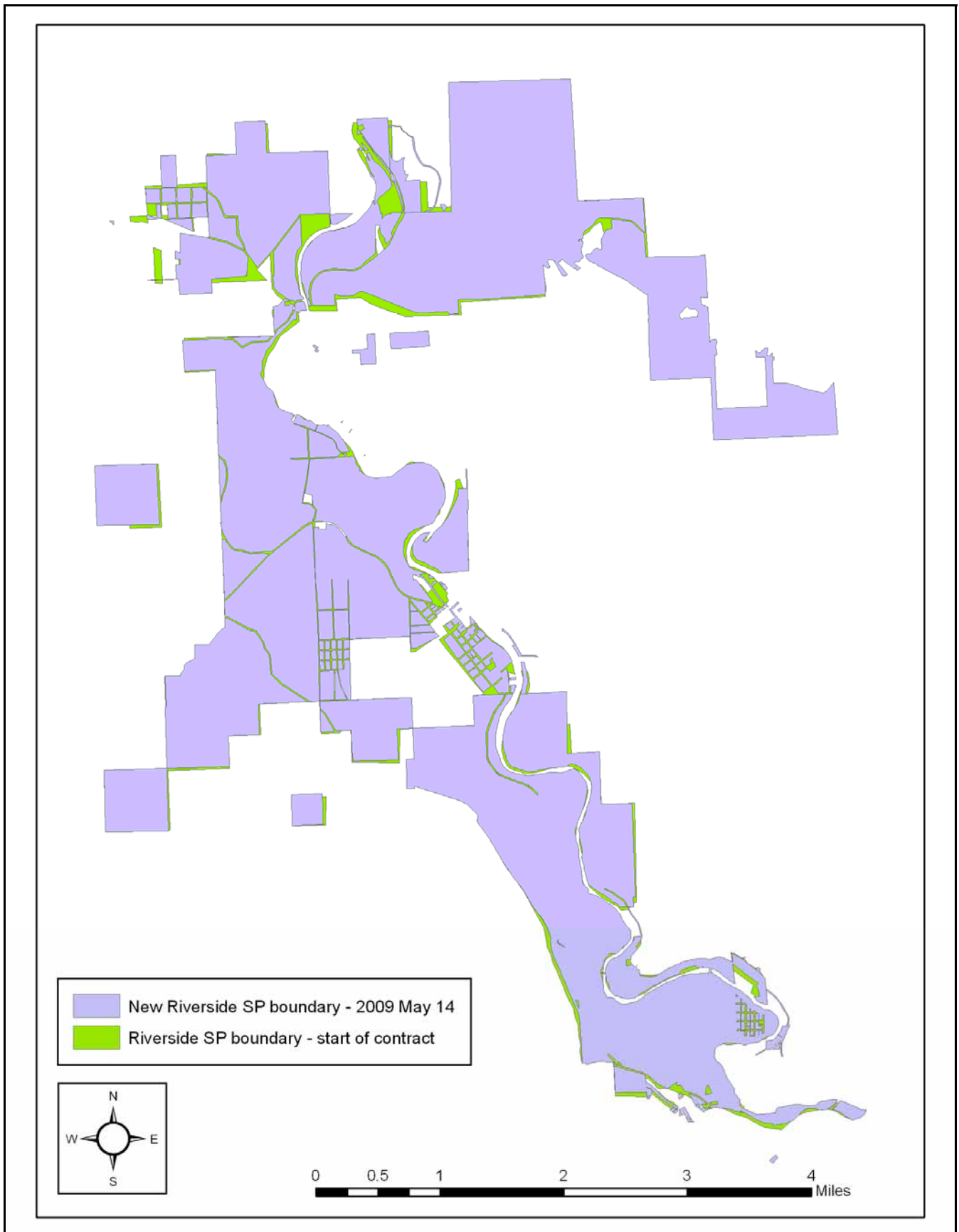


Figure A4. Revised ownership of RSP overlaid on original layer of RSP. Green areas indicate areas excised from original boundary. Some of these areas were already surveyed by PBI at time of boundary switch.

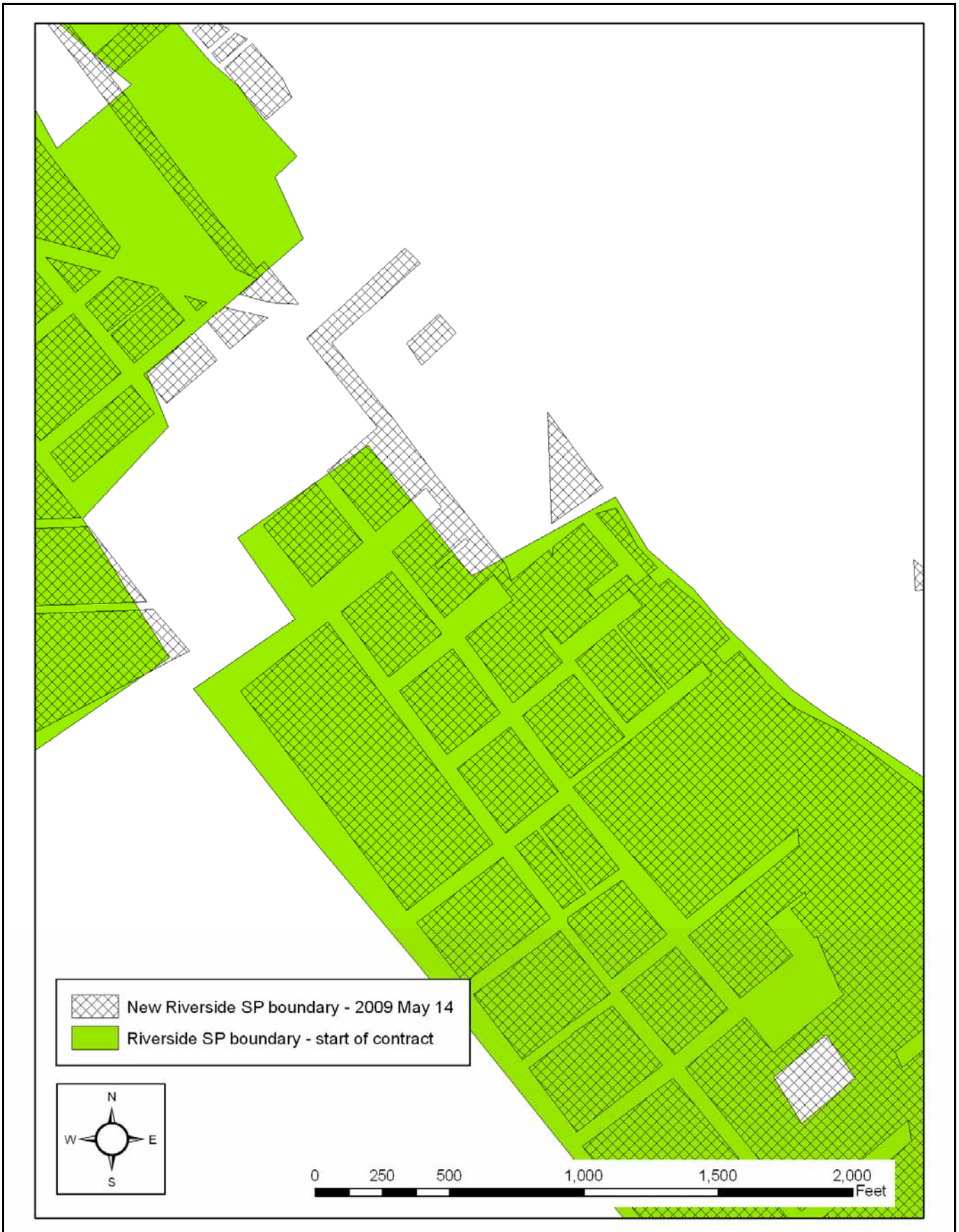


Figure A5. Revised boundary of RSP overlaid on original layer for RSP in the central part of the park. Note the high degree of fragmentation of parcels in the new ownership vs. the old.

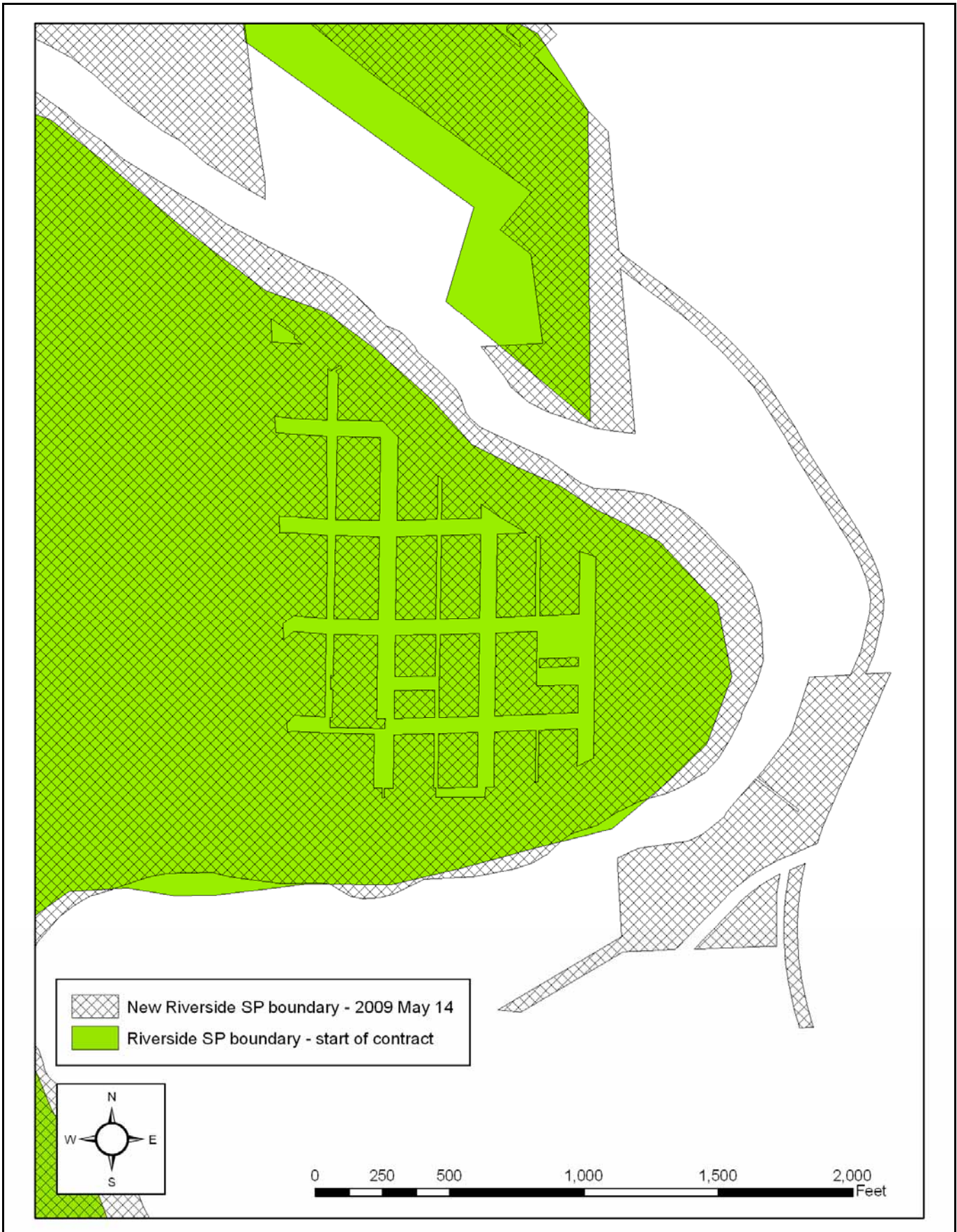


Figure A6. Revised boundary of RSP overlaid on the original boundary of RSP. Also note strange parcels to the east (see Figure A7).

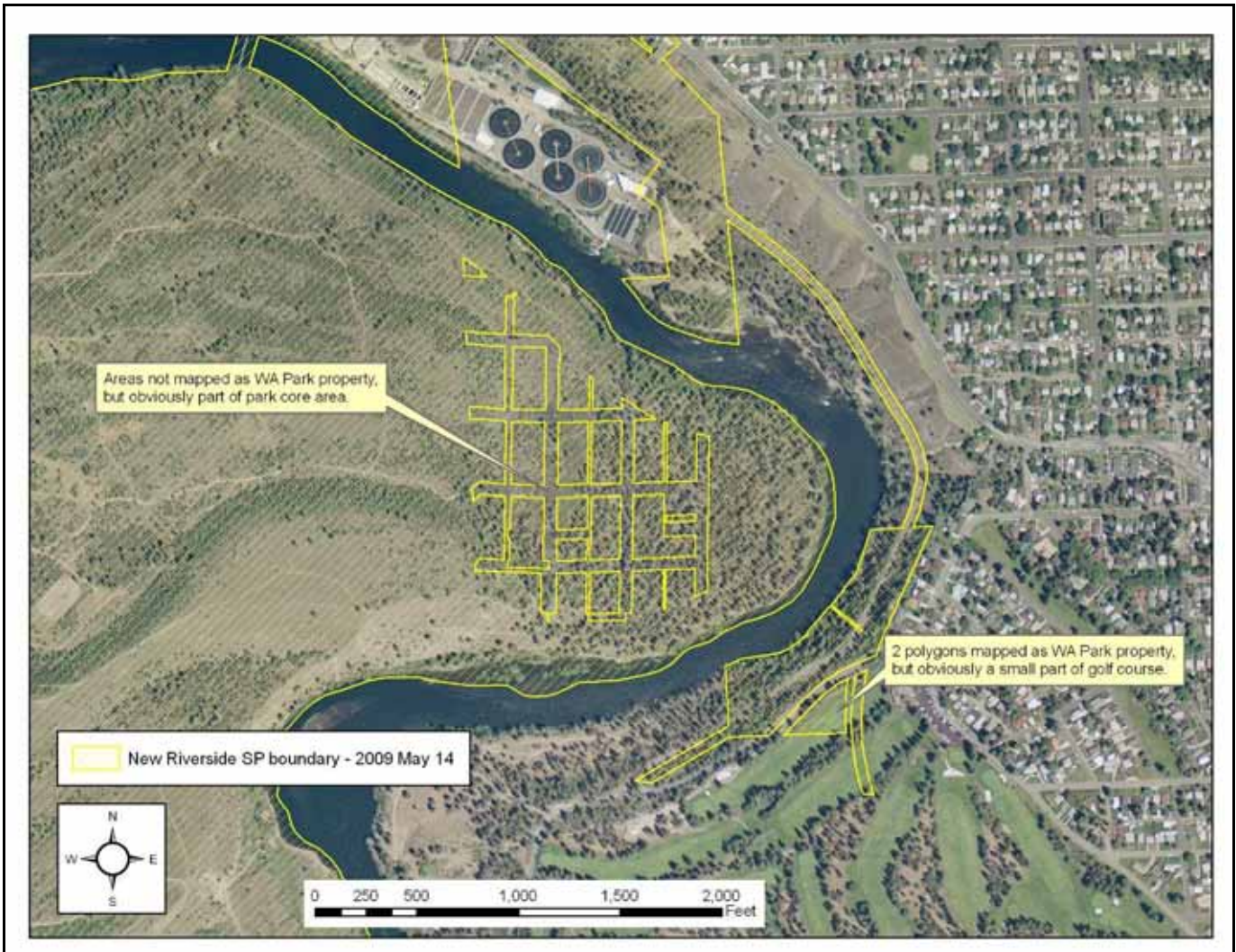


Figure A7. Revised boundary of RSP overlaying recent aerial photograph. Note areas in core of park that are not in new RSP ownership boundary. Also note two polygons that are in the new RSP boundary, but obviously part of a large golf course.



Figure A8. Revised boundary of RSP overlaying recent aerial photograph. This is an extraneous parcel of land marked in the new RSP ownership boundary, but is not in RSP. It appears to be a private parcel, which is in the north part of the City of Spokane.



Figure A9. Revised boundary of RSP overlaying recent aerial photograph. This an example of a private driveway, house, outbuildings and associated development that are clearly marked in the new RSP ownership boundary as park of the park, but are very clearly marked as private property on the ground (see Figures 21-23).



Figure A10. Beginning of private driveway, house, outbuildings and associated development that are mapped within the new RSP ownership boundary, but are very clearly marked as private property on the ground (see sign).



Figure A11. Beginning of private driveway, house, outbuildings and associated development that are mapped within the new RSP ownership boundary, but are very clearly marked as private property on the ground.



Figure A12. View of private house, outbuildings and associated development that are mapped within the new RSP ownership boundary, but are very clearly marked as private property on the ground.

Impact of ownership boundary changes on PBI's rare plant and vegetation survey

The impact of all the ownership boundary changes on PBI's rare plant and vegetation survey contract is that our survey area became the total area within the boundary of both the original and the new ownership boundary (9393 acres). We created our bid on the original boundary (7272 acres). Therefore, the survey area was increased by 2,111 acres above what we considered when developing our bid and signing our contract. This is an increase of survey area of 29%. There was not a commensurate increase in survey budget.

In addition to the substantial increase in acreage that we were expected to survey, there was a substantial increase in labor dealing with issues surrounding the incorrect boundaries (both the first boundary and the last boundary have significant problems). Some of the extra labor we experienced is as follows:

1. The original polygon mapping had to undergo extensive revisions to accommodate the new boundary layer.
2. We visited areas of the park that appeared to be park property based on the information provided to us by WSPRC but were (and still are) apparently private property. Since the park boundary is not marked on the ground, our survey crew would often wander on to what could be private property without knowing it, based on the incorrect boundary layer. In some instances, survey crews encountered a private home or an irate property owner.

3. We spent many hours trying to unravel the ownership boundary issues. This included long discussions of the park boundary/ownership issues with state park staff, both at RSP and at the main office in Olympia.

Perhaps the primary impact of the RSP ownership issue is that it still appears that WSPRC has serious problems with the ownership boundaries of RSP, which are not resolved by the new boundary layer. We are left with great uncertainty about what is in the park and what is not and the location of the actual boundaries of the park.

Given the circumstances of the ownership boundary changes and the ongoing uncertainty about ownership issues, PBI conducted a professional survey of the vegetation and rare plants in most of the park area. We invested considerable resources, beyond what was allocated in our project budget to accomplish these goals. We added significant new knowledge about the distribution of rare plant species within the park and we recorded a vast quantity of useful information on the vegetation composition, structure and condition within the park. While these efforts produced a product less than desired by all parties, it is still a useful document for most of the areas that were surveyed.

Appendix B – 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 following ecological condition ranks were applied to vegetation polygons that were surveyed in this project:

■ Excellent Ecological Condition

Areas in this class have very few non-native plants. The composition and structure of native vegetation in this condition class correspond to the natural range of variation characteristic to this habitat type. Old-growth conditions often exist. Species diversity of native plants and animals is often high relative to the natural community under consideration. Wildlife habitat conditions are optimal for species of conservation concern. Soil compaction, accelerated erosion and hydrologic alteration are absent. Direct signs of human-induced ecological stress are absent. Many rare plant and animal species may only exist within this condition class.

■ Good Ecological Condition

Areas in this class have few non-native plants. The composition and structure of native vegetation in this condition class correspond to the natural range of variation characteristic to this habitat type. Old-growth conditions may exist, but have been subject to some human-induced stress. Species diversity of native plants and animals is moderately high relative to the natural community under consideration. Wildlife habitat conditions are adequate for species of conservation concern. Soil compaction, accelerated erosion and hydrologic alteration do not significantly influence the area. Direct signs of human-induced ecological stress are infrequent. Some rare plant and animal species may exist within this condition class.

■ Marginal Ecological Condition

Areas in this class often have both native and non-native plants. The composition and structure of native vegetation in this condition class is altered from the natural range of variation characteristic to this habitat type. Old-growth conditions are absent. Species diversity of native plants and animals is lower than the two high condition classes. Wildlife habitat conditions may be adequate for some species of conservation concern, but not adequate for many. Soil compaction, accelerated erosion and hydrologic alteration may impact the area. Direct signs of human-induced ecological stress are frequent. Most rare plant and animal species are only infrequently encountered within this condition class.

■ Poor Ecological Condition

Areas in this class are often dominated by non-native plants. The composition and structure of native vegetation in this condition class is often dramatically altered from the natural range of variation characteristic to this habitat type. Old-growth conditions are absent. Species diversity of native plants and animals is often low. Wildlife habitat conditions are not adequate for most species of conservation concern. Soil compaction, accelerated erosion and hydrologic alteration often influence the area. Direct signs of human-induced ecological stress are frequent. Rare plant and animal species are seldom encountered within this condition class.

Appendix C – Definitions of Vegetation Community Ranks

The following table defines the ranking system for plants and plant communities used by the Washington State Natural Heritage Program.

Code	Definition
G1	Critically imperiled throughout its range; extremely rare with five or fewer occurrences or very few remaining acres.
G2	Imperiled throughout its range; rare with six to 20 occurrences or few remaining acres.
G3	Either very rare and local throughout its range or found locally in a restricted range; uncommon with 21 to 100 occurrences.
G4	Apparently secure throughout its range, though it may be quite rare in some parts of its range, especially at the periphery; many occurrences.
G5	Demonstrably secure in its range, though it may be quite rare in some parts of its range, especially at the periphery; ineradicable under present conditions.
S1	Critically imperiled in Oregon; extremely rare with five or fewer occurrences or very few remaining acres.
S2	Imperiled in Oregon; rare with six to 20 occurrences or few remaining acres.
S3	Either very rare and local in Oregon or found locally in a restricted range; uncommon with 21 to 100 occurrences.
S4	Apparently secure in Oregon, though it may be quite rare in some parts; many occurrences.
S5	Demonstrably secure in Oregon, though it may be quite rare in some parts; ineradicable under present conditions.
U	Unknown
NA	Natural Heritage Rank not available
NR	Not Ranked

Appendix D – Vegetation Survey Codes and Instructions

Site = name of locality of map project

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

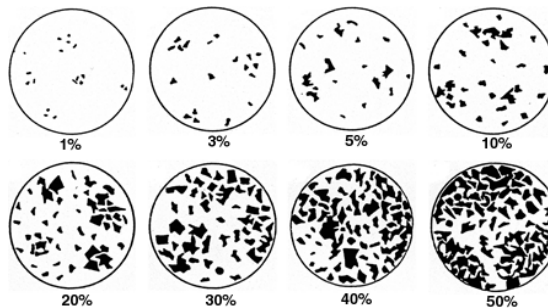
Polygon # = number you put on map

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

TOTAL VEGETATION COVER includes all vascular plants, mosses, lichens and foliose lichens (crustose lichens excluded they are considered rock); this never exceeds 100%. Space between leaves/branches is included in "cover".

Code	Cover (%)	Cover mid-pt
0	0	0
1	<1	0.5
2	1-5	3
3	5-25	15
4	25-60	43
5	60-90	75
6	>90	95



TREES, SHRUBS, GRAMINOIDS, FORBS, EXOTICS cover includes the space between leaves/branches. 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.

EXOTICS = primary species observed; secondary species observed (please pay special attention to noxious weeds). Also, note the relative abundance of exotics in each polygon, using the 1-6 cover codes noted above.

SUBSTRATES estimate to nearest % the following, the sum of the categories adds to 100%. Describe in comments if there is wide variation in any category; note % standing water if it is persistent or characteristic of site.

Water = exposed standing or flowing water

Rock Outcrop = exposed bedrock including detached boulders over 1m across

Talus = exposed large, loose rocks

Gravel/Cobble = large fragments between sand and boulder

Bare Ground = exposed mineral soil

Mosses/Lichens = nonvascular plant cover on soil

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

Caves = area covered by caves

Mines = area covered by mines

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

Fire

Note presence of fire (i.e. charcoal, fire scars, etc.) and, if present, estimate time of fire.

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, soil compaction or churning)

2 = active moderate grazing (25-75% forage used)

3 = active light grazing (lots of last yr's 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

Descriptions of Plant Communities

PLANT ASSOCIATION (PA) = list all PAs encountered in polygon survey, in comments list source of name if not on provided key. NOTE: Contractor is required to consult with the WNHP to obtain the most current classification and condition ranking information available.

Existing Vegetation Community – Write down the major tree/shrub/grass-forb-fern community type. Pay attention to indicator species. Alien species may be included in community description.

Ecological Condition Rank of PA in key or estimate. (The condition of each plant vegetation community polygon shall be rated using the codes listed in Appendix B.)

% of Polygon = your estimate of % of polygon covered by this plant community. (PA1 is the matrix and a greater % than PA2, if there is a PA2; PA2 is a greater % than PA3, if there is a PA3.)

Pattern = how PA is distributed in stand

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

Appendix E – Vegetation Survey Polygon Data

Polygon Number **-9999** **ParkName:**

Survey Intensity **Riverside**

Observer out

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: not part of park	0		OUT
Veg Community1: out			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: outside park

Polygon Number 3

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: ownership issue

Existing Veg2: 0

Veg Community3:

Existing Veg3: 0

Veg Community3:

Notes:

Percent Pattern Rank

OWNERS

Polygon Number 4

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

0

OWNERS

Veg Community1: ownership issue

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes:

Polygon Number 5

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

0

OWNERS

Veg Community1: ownership issue

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes:

Polygon Number 6

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

0

OWNERS

Veg Community1: ownership issue

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes:

Polygon Number 7

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ns	0		N/A
Veg Community1: N/A			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 8

ParkName:

Riverside

Survey Intensity 1
 Observer RO, JR, AM, DH
 Date 7/15/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PSME, PIPO, POBAT, ACER
 emergent 3
 maincanopy 4
 subcanopy 3
 Shrubs Total 3
 Dominant Shrubs SYAL, HODI, PHMA5, MAAQ2, ERHE2, ARUV
 > 1.5' tall 3
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids ELGL, POBU, ACOC3
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs MAST4, BASA3, LONE4
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 2
 Ferns Evergreen 0
 Ferns Deciduous 2
 Exotics Total 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 4
 Rock Outcrop 0
 Gravel 3
 Logging 1
 Fire: probably
 Stand Age 6
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 2

Exotic Species

Noxious Exotic Plants

CESTM, CEDI3, HYPE, PORE5, LIDAD,

Other Exotic Plants

TAOF, TRDU, CIAR4, POBU, CYSC4

Water: 4
Rock: 0
Talus: 5
Gravel: 3
Bare Ground: 2
Moss Lichen: 20
Litter: 66

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PSME/SYAL-HOD-PHMA5/MAST4-ELGL	90	Matrix	GOOD
Veg Community1: PSME/PHMA5 Williams and others 1995			G5
Existing Veg2: PIPO/ERHE2-ARUV/BASA3-LONE4	7	Small patch	FAIR
Veg Community3: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg3: ACER-BEOC2-SORBU/COSE16/PHAR3- RUCR	2	Small patch	POOR
Veg Community3: river riparian zone			

Notes: Spokane River Riparian Zone (1% of total, Pattern 6); weeds mostly along trail; ANPA4 found along trail; old concrete foundation suggesting old homestead; Osprey

Polygon Number 9

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

Veg Community1: ownership issue

0

OWNERS

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes:

Polygon Number 10

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: ownership issue

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes: parcel amidst houses

Percent	Pattern	Rank
0		OWNERS
0		
0		

Polygon Number 11

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

0

OWNERS

Veg Community1: ownership issue

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes: boundary issue?

Polygon Number 12

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

0

OWNERS

Veg Community1: ownership issue

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes: parcel amidst houses

Polygon Number

13

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 16

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

0

OWNERS

Veg Community1: ownership issue

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes:

Polygon Number 17

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

0

OWNERS

Veg Community1: ownership issue

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes:

Polygon Number 18

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes: accessibility question

	Percent	Pattern	Rank
Existing Veg1:	0		N/A
Existing Veg2:	0		
Existing Veg3:	0		

Polygon Number 19

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH, PM
 Date 8/7/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PIPO, PSME
 emergent 2
 maincanopy 5
 subcanopy 1
 Shrubs Total 3
 Dominant Shrubs ARUV, AMAL2, SYAL
 > 1.5' tall 2
 < 1.5' tall 3
 Graminoids Total 3
 Dominant Graminoids CARU, HECO26, POSE, POBU
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs LUSE4, LONE4, ACMI2, BASA3
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, CESTM

Other Exotic Plants

TRDU, POBU

Water: 0
Rock: 0
Talus: 1
Gravel: 1
Bare Ground: 5
Moss Lichen: 3
Litter: 90

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/ARUV-AMAL2-SYAL/CARU-LUSE4-	HECO26	100	Matrix GOOD
Veg Community1: PIPO/HECO26	Bourgeron and Engelking 1994		G1
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: understory a mosaic of ARUV, AMAL2, SYAL, CARU and LONE4 in different patches with patches fo more or less just litter in between; ANPA4 found here

Polygon Number 20A

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/5/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PIPO, PSME
 emergent 1
 maincanopy 5
 subcanopy 2
 Shrubs Total 1
 Dominant Shrubs AMAL2
 > 1.5' tall 0
 < 1.5' tall 1
 Graminoids Total 2
 Dominant Graminoids POBU
 Graminoids Perennial 2
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LONE4, APAN2
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD

Other Exotic Plants

POBU

Water: 0
Rock: 0
Talus: 0
Gravel: 1
Bare Ground: 1
Moss Lichen: 3
Litter: 95

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/BASA3	100	Matrix	GOOD
Veg Community1: PSME/PSSP6	Williams and others 1995		G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found here

Polygon Number 20B

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/5/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO
 emergent 2
 maincanopy 3
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs AMAL2, ARUV
 > 1.5' tall 1
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids POBU, FEID, HOJU
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs LONE4, BASA3, ARCO5, PHCA7, LUSE4
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 CESTM, TRDU, CHJU, LIDAD
Other Exotic Plants
 POBU, TAOF, AGCR, ELRE4

Water: 0
Rock: 0
Talus: 0
Gravel: 1
Bare Ground: 2
Moss Lichen: 5
Litter: 92

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-FEID-LONE4	95	Matrix	FAIR
Veg Community1: PIPO/FEID	Bourgeron and Engelking 1994		G4
Existing Veg2: POBU-FEID-LONE4	5	Small patch	POOR
Veg Community3: FEID			

Existing Veg3: 0
Veg Community3:

Notes: ANPA4 found here; many small, downed PIPO trees with patches of less than 5 yr old PIPO; Ex veg 2 disturbed field; Old road; pilign of woody debris

Polygon Number 21

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/5/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PIPO
 emergent 2
 maincanopy 5
 subcanopy 1
 Shrubs Total 2
 Dominant Shrubs AMAL2
 > 1.5' tall 1
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids POBU, BRAR5, FEID
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LONE4, ACMI2
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 1
 Fire: 0
 Stand Age 1-2
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE

Other Exotic Plants

POBU

Water: 0
Rock: 0
Talus: 0
Gravel: 1
Bare Ground: 1
Moss Lichen: 5
Litter: 93

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/BASA3-LONE4	100	Matrix	GOOD
Veg Community1: PIPO/FEID		Bourgeron and Engelking 1994	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: evenly spaced, homogenous PIPO; Not as much woodl debris as adjacent pipo polygons.

Polygon Number 22

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM, JR, DH
 Date 7/16/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PIPO
 emergent 1
 maincanopy 4
 subcanopy 3
 Shrubs Total 1
 Dominant Shrubs AMAL2, PHLE4, ROWO, TODI, SALIX, CRDO2
 > 1.5' tall 0
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids POBU, BRTE, ARPU9, POPR, DAGL
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs LONE4, BASA3, LUSE4, APAN2, ARLU
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 5
 Rock Outcrop 0
 Gravel 2
 Logging 1
 Fire: YES - 14 YRS
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6 (roads, trails,
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 POCU6, LIDAD, TRDU, CHJU, ECVU,
Other Exotic Plants
 TAVU, BRTE, TAOF, POBU

Water: 5
Rock: 0
Talus: 5
Gravel: 2
Bare Ground: 3
Moss Lichen: 3
Litter: 82

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-BASA3	95	Matrix	GOOD
Veg Community1: PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg2: SRRZ	5	linear	FAIR
Veg Community3: river riparian zone			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found here; refer to Riverside State Park Multi-use Trails Map for new boundary?

Polygon Number 23

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/5/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees ACNE2, ULAM, ACSA2
 emergent 0
 maincanopy 4
 subcanopy 0
 Shrubs Total 4
 Dominant Shrubs CRDO2, ROWO, PHLE4, AMAL2, SAEX
 > 1.5' tall 4
 < 1.5' tall 1
 Graminoids Total 4
 Dominant Graminoids PHAR3, BRIN2, BRAR5
 Graminoids Perennial 4
 Graminoids Annual 0
 Forbs Total 2
 Dominant Forbs DIFU2, ASFA, CLLI2
 Forbs Perennial 2
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 0
 Water 1
 Rock Outcrop 0
 Gravel 1
 Logging 1
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 0
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

CIAR4, TAVU

Other Exotic Plants

Water: 1
Rock: 0
Talus: 1
Gravel: 1
Bare Ground: 1
Moss Lichen: 0
Litter: 96

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ACNE2/CRDO2-PHLE4/PHAR3	100	Matrix	POOR
Veg Community1: disturbed/weedy			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 24

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

0

OWNERS

Veg Community1: ownership issue

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes:

Polygon Number 25

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ns	0		N/A
Veg Community1: N/A			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Ask Robin/Alexis if done in August.

Polygon Number

26

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 27

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ns	0		N/A
Veg Community1: former agricultural field			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 28

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ns	0		N/A
Veg Community1: N/A			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Ask Robin/Alexis if done in August.

Polygon Number 30

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/5/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 2
 maincanopy 3
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs AMAL2, ARUV
 > 1.5' tall 1
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids CAGE2, BRAR5, POBU
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs LUSE4, HISCA, GAAR
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 1
 Fire: 0
 Stand Age 2-3
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE

Other Exotic Plants

POBU, HOJU

Water: 0
Rock: 0
Talus: 0
Gravel: 1
Bare Ground: 2
Moss Lichen: 3
Litter: 94

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/CAGE2-BRAR5-LUSE4	100	Matrix	GOOD
Veg Community1: PSME/CAGE2			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 here; young PSME patches

Polygon Number

31

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 32

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/5/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO
 emergent 2
 maincanopy 4
 subcanopy 4
 Shrubs Total 1
 Dominant Shrubs AMAL2
 > 1.5' tall 1
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids PSSP6, POBU, DAUN, ELELE
 Graminoids Perennial 3
 Graminoids Annual 0
 Forbs Total 3
 Dominant Forbs BASA3, LONE4, PHCA7, LUAR3
 Forbs Perennial 3
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 3
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 ECVU, CHJU, LIDAD, PORE5
Other Exotic Plants
 POBU

Water: 0
Rock: 0
Talus: 7
Gravel: 3
Bare Ground: 2
Moss Lichen: 1
Litter: 87

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/PSSP6-LUAR3-BASA3	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: 610 developed -trail intersection; ANPA4 found; lots of smaller trees

Polygon Number

33

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number

34

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 35

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/7/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PIPO
 emergent 1
 maincanopy 3
 subcanopy 3
 Shrubs Total 4
 Dominant Shrubs AMAL2, PHLE4, ERCO12
 > 1.5' tall 4
 < 1.5' tall 4
 Graminoids Total 3
 Dominant Graminoids POBU, BRTE, PSSP6, ARPU9
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LONE4, APAN2, VIVI, ECVU, LIDAD
 Forbs Perennial 3
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 4
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 15
 Logging 1
 Fire: 0
 Stand Age 5
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD ECVU

Other Exotic Plants

BRTE, POBU

Water: 0
Rock: 0
Talus: 1
Gravel: 15
Bare Ground: 8
Moss Lichen: 2
Litter: 74

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2-PHLE4-ERCO12/POBU-ECVU-	PSSP6	100	Matrix POOR
Veg Community1: PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Extremely weedy at top of slope below road; better med. And lower slope; ECVU very dominant in slope; out of control

Polygon Number 38

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/5/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO
 emergent 2
 maincanopy 4
 subcanopy 4
 Shrubs Total 1
 Dominant Shrubs AMAL2
 > 1.5' tall 1
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids PSSP6, POBU, DAUN, ELELE
 Graminoids Perennial 3
 Graminoids Annual 0
 Forbs Total 3
 Dominant Forbs BASA3, LONE4, PHCA7, LUAR3
 Forbs Perennial 3
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 3
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 ECVU, CHJU, LIDAD, PORE5
Other Exotic Plants
 POBU

Water: 0
Rock: 0
Talus: 7
Gravel: 3
Bare Ground: 2
Moss Lichen: 1
Litter: 87

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/PSSP6-LUAR3-BASA3	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: 610 developed -trail intersection; ANPA4 found; lots of smaller trees

Polygon Number

39

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 40

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number

41

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 42

ParkName:

Riverside

Survey Intensity	1	
Observer	RO, AM	
Date	8/7/2008	
Total Vegetation	4	
Trees Total	3	
Dominant Trees	PIPO	
emergent	1	
maincanopy	3	
subcanopy	3	
Shrubs Total	4	
Dominant Shrubs	AMAL2, PHLE4, ERCO12	
> 1.5' tall	4	
< 1.5' tall	4	
Graminoids Total	3	
Dominant Graminoids	POBU, BRTE, PSSP6, ARPU9	
Graminoids Perennial	3	
Graminoids Annual	1	
Forbs Total	3	
Dominant Forbs	BASA3, LONE4, APAN2, VIVI, ECVU, LIDAD	
Forbs Perennial	3	
Forbs Annual	0	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	4	
Exotics Perennial	4	
Exotics Annual	0	
Water	0	
Rock Outcrop	0	
Gravel	15	
Logging	1	
Fire:	0	
Stand Age	5	
Agriculture	0	
Livestock	0	
Development	3	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD ECVU

Other Exotic Plants

BRTE, POBU

Water:	0
Rock:	0
Talus:	1
Gravel:	15
Bare Ground:	8
Moss Lichen:	2
Litter:	74

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2-PHLE4-ERCO12/POBU-ECVU-	PSSP6	100	Matrix POOR
Veg Community1: PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Extremely weedy at top of slope below road; better med. And lower slope; ECVU very dominant in slope; out of control

Polygon Number 43

ParkName:

Riverside

Survey Intensity	1	
Observer	RO, AM	
Date	8/7/2008	
Total Vegetation	4	
Trees Total	4	
Dominant Trees	PIPO	
emergent	1	
maincanopy	4	
subcanopy	3	
Shrubs Total	3	
Dominant Shrubs	AMAL2, ERNI2, ROWO, PRVI, ERCO12	
> 1.5' tall	3	
< 1.5' tall	2	
Graminoids Total	3	
Dominant Graminoids	POBU, ELRE4, BRIN2, ELGL, PSSP6	
Graminoids Perennial	3	
Graminoids Annual	0	
Forbs Total	3	
Dominant Forbs	BASA3, LONE4, ACMI2, LIRU4, GAAR, LOMAT	
Forbs Perennial	3	
Forbs Annual	0	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	3	
Exotics Perennial	3	
Exotics Annual	0	
Water	0	
Rock Outcrop	0	
Gravel	5	
Logging	1	
Fire:	0	
Stand Age	5	
Agriculture	0	
Livestock	0	
Development	3	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants
CHJU, LIDAD, CEDI3, HYPE, ECVU,
Other Exotic Plants
POBU, ELRE4, BRIN2

Water:	0
Rock:	0
Talus:	1
Gravel:	5
Bare Ground:	2
Moss Lichen:	1
Litter:	91

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1:	PIPO/AMAL2-ERNI2-ERCO12/BASA3-POBU-	PSSP6	100
Veg Community1:	PIPO/PSSP6	Daubenmire and Daubenmire 1984	Matrix FAIR G4
Existing Veg2:		0	
Veg Community3:			
Existing Veg3:		0	
Veg Community3:			

Notes: trail through polygon makes rank fair and not good

Polygon Number

44

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 45

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2: 0

Veg Community3:

Existing Veg3: 0

Veg Community3:

Notes:

Percent	Pattern	Rank
0		N/A
0		
0		

Polygon Number

46

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 47

ParkName:

Riverside

Survey Intensity	1	
Observer	RO, AM	
Date	8/7/2008	
Total Vegetation	4	
Trees Total	3	
Dominant Trees	PIPO	
emergent	1	
maincanopy	3	
subcanopy	3	
Shrubs Total	4	
Dominant Shrubs	AMAL2, PHLE4, ERCO12	
> 1.5' tall	4	
< 1.5' tall	4	
Graminoids Total	3	
Dominant Graminoids	POBU, BRTE, PSSP6, ARPU9	
Graminoids Perennial	3	
Graminoids Annual	1	
Forbs Total	3	
Dominant Forbs	BASA3, LONE4, APAN2, VIVI, ECVU, LIDAD	
Forbs Perennial	3	
Forbs Annual	0	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	4	
Exotics Perennial	4	
Exotics Annual	0	
Water	0	
Rock Outcrop	0	
Gravel	15	
Logging	1	
Fire:	0	
Stand Age	5	
Agriculture	0	
Livestock	0	
Development	3	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD ECVU

Other Exotic Plants

BRTE, POBU

Water:	0
Rock:	0
Talus:	1
Gravel:	15
Bare Ground:	8
Moss Lichen:	2
Litter:	74

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2-PHLE4-ERCO12/POBU-ECVU	100	Matrix	POOR
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Extremely weedy at top of slope below road; better med. And lower slope; ECVU very dominant in slope; out of control

Polygon Number 48

ParkName:

Riverside

Survey Intensity	1
Observer	RO, AM
Date	8/7/2008
Total Vegetation	4
Trees Total	4
Dominant Trees	PIPO
emergent	1
maincanopy	4
subcanopy	3
Shrubs Total	3
Dominant Shrubs	AMAL2, ERNI2, ROWO, PRVI, ERCO12
> 1.5' tall	3
< 1.5' tall	2
Graminoids Total	3
Dominant Graminoids	POBU, ELRE4, BRIN2, ELGL, PSSP6
Graminoids Perennial	3
Graminoids Annual	0
Forbs Total	3
Dominant Forbs	BASA3, LONE4, ACMI2, LIRU4, GAAR, LOMAT
Forbs Perennial	3
Forbs Annual	0
Ferns Total	0
Ferns Evergreen	0
Ferns Deciduous	0
ExoticsTotal	3
Exotics Perennial	3
Exotics Annual	0
Water	0
Rock Outcrop	0
Gravel	5
Logging	1
Fire:	0
Stand Age	5
Agriculture	0
Livestock	0
Development	3
Wildlife	3
Recreation Severity	3
Recreation Type	3
Hydrology	1

Exotic Species

Noxious Exotic Plants

CHJU, LIDAD, CEDI3, HYPE, ECVU,

Other Exotic Plants

POBU, ELRE4, BRIN2

Water:	0
Rock:	0
Talus:	1
Gravel:	5
Bare Ground:	2
Moss Lichen:	1
Litter:	91

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2-ERNI2-ERCO12/BASA3-POBU	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: trail through polygon makes rank fair and not good

Polygon Number

49

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number

51

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes: boundary issue?

Percent Pattern Rank

0 N/A

0

0

Polygon Number 52

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/5/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 1
 maincanopy 4
 subcanopy 4
 Shrubs Total 3
 Dominant Shrubs AMAL2, PRVI
 > 1.5' tall 3
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids POBU, FEID, BRTE, PSSP6
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 4
 Dominant Forbs ARCO5, BASA3, ASMI
 Forbs Perennial 4
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 5
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 LIDAD, HYPE, CESTM, ECVU
Other Exotic Plants
 POBU, BRTE

Water: 0
Rock: 0
Talus: 2
Gravel: 5
Bare Ground: 2
Moss Lichen: 2
Litter: 89

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2/BASA3-PSSP6-POBU	100	Matrix	GOOD
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found here; nice diversity of forbs

Polygon Number 53

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/7/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO
 emergent 1
 maincanopy 4
 subcanopy 4
 Shrubs Total 3
 Dominant Shrubs SYAL, ERCO12, AMAL2
 > 1.5' tall 3
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids POBU, KOMA, DAUN, ELELE, PSSP6
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LONE4, PHCA7, ACMI2, VIVI, APAN2, GAAR
 Forbs Perennial 3
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 3
 Logging 1
 Fire: 0
 Stand Age 5
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, TRDU, RUAC3

Other Exotic Plants

POBU

Water: 0
Rock: 0
Talus: 2
Gravel: 3
Bare Ground: 2
Moss Lichen: 4
Litter: 89

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2-SYAL/PSSP6-KOMA-DAUN	100	Matrix	GOOD
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: AT THE TOP OF A SLOPE AND IS VERY LIKE 80A EXCEPT FOR HAVING A VERY NICE STANDS OF PSSP6 IN THE OPEN AREAS AND IS RELATIVELY WEED FREE.

Polygon Number 55

ParkName:

Riverside

Survey Intensity

Observer RO

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: private property?

Percent Pattern

100 Matrix

Rank

OWNERS

Veg Community1: ownership issue

Existing Veg2: 0

Veg Community3:

Existing Veg3: 0

Veg Community3:

Notes: Not part of state park? See Riverside State Park Multi-use Trails Map.

Polygon Number 56

ParkName:

Riverside

Survey Intensity	1	
Observer	RO, AM	
Date	8/7/2008	
Total Vegetation	4	
Trees Total	4	
Dominant Trees	PIPO	
emergent	1	
maincanopy	4	
subcanopy	4	
Shrubs Total	3	
Dominant Shrubs	SYAL, AMAL2, ERCO12	
> 1.5' tall	3	
< 1.5' tall	2	
Graminoids Total	3	
Dominant Graminoids	POBU, PSSP6, CAGE2, KOMA, ELELE, HECO26	
Graminoids Perennial	3	
Graminoids Annual	1	
Forbs Total	3	
Dominant Forbs	BASA3, LONE4, PHCA7, ACMI2, VIVI, APAN2, GAAR	
Forbs Perennial	3	
Forbs Annual	0	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	2	
Exotics Perennial	2	
Exotics Annual	0	
Water	0	
Rock Outcrop	0	
Gravel	3	
Logging	1	
Fire:	0	
Stand Age	5	
Agriculture	0	
Livestock	0	
Development	3	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD, TRDU, RUAC3

Other Exotic Plants

POBU

Water:	0
Rock:	0
Talus:	5
Gravel:	3
Bare Ground:	3
Moss Lichen:	3
Litter:	86

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2-SYAL/POBU-BASA3-PSSP6	100	Matrix	GOOD
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found here

Polygon Number

57

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number

58

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 59

ParkName:

Riverside

Survey Intensity 2
 Observer GW
 Date 8/27/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO
 emergent 0
 maincanopy 4
 subcanopy 2
 Shrubs Total 0
 Dominant Shrubs
 > 1.5' tall 0
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids POBU, CARO5, KOMA, VULPI, BRTE, BRR2
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 2
 Dominant Forbs LUPIN, ANPA4, ACMI2
 Forbs Perennial 2
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 5
 Wildlife 3
 Recreation Severity 1
 Recreation Type 1
 Hydrology 1

Exotic Species

Noxious Exotic Plants

Other Exotic Plants
 POBU, BRR2, BRTE

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 15
Moss Lichen: 0
Litter: 85

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU	100	Matrix	POOR
Veg Community1: PIPO/FEID	Bourgeron and Engelking 1994		G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: IS ALL 59 HEAVILY IMPACTED?

Polygon Number 60

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent Pattern

100 Matrix

Rank

OWNERS

Veg Community1: ownership issue

Existing Veg2: 0

Veg Community3:

Existing Veg3: 0

Veg Community3:

Notes:

Polygon Number

61

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number

62

ParkName:

Riverside

Survey Intensity	1	
Observer	RO, AM	
Date	8/7/2008	
Total Vegetation	4	
Trees Total	4	
Dominant Trees	PIPO	
emergent	1	
maincanopy	4	
subcanopy	4	
Shrubs Total	3	
Dominant Shrubs	AMAL2, SYAL, ERHE2, ERCO12	
> 1.5' tall	3	
< 1.5' tall	2	
Graminoids Total	4	
Dominant Graminoids	POBU, KOMA, PSSP6, CAGE2, ELELE, ELRE4, BRIN2	
Graminoids Perennial	4	
Graminoids Annual	0	
Forbs Total	3	
Dominant Forbs	BASA3, LONE4, PHCA7, ACMI2, APAN2, GAAR, LIRU4, PECO6,	
Forbs Perennial	3	
Forbs Annual	0	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	3	
Exotics Perennial	3	
Exotics Annual	0	
Water	0	
Rock Outcrop	0	
Gravel	3	
Logging	1	
Fire:	0	
Stand Age	5	
Agriculture	0	
Livestock	0	
Development	3	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

CEDI3, TAVU, CESTM

Other Exotic Plants

BRTE, ELRE4, BRIN2

Water:	0
Rock:	0
Talus:	5
Gravel:	3
Bare Ground:	3
Moss Lichen:	3
Litter:	86

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1:	PIPO/SYAL-AMAL2/POBU-BRIN2	100 Matrix	FAIR
Veg Community1:	PIPO/SYAL	Daubenmire and Daubenmire 1984	G4
Existing Veg2:		0	
Veg Community3:			
Existing Veg3:		0	
Veg Community3:			

Notes: this polgon is seamless with 80A, 73, and 56 except for signs of having livestock, which is revealed as patched of forage grasses and presence of an old feeder.

Polygon Number 63

ParkName:

Riverside

Survey Intensity 1
 Observer PM
 Date 8/27/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO, MAPU
 emergent 0
 maincanopy 3
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs PHCA7, ERHE2, AMAL2
 > 1.5' tall 1
 < 1.5' tall 2
 Graminoids Total 4
 Dominant Graminoids ACOC3, POBU, BRRA2, PSSP6, ELELE, KOMA, THIN6
 Graminoids Perennial 4
 Graminoids Annual 3
 Forbs Total 3
 Dominant Forbs LONE4, CHJU, LIDAD, ARCO5, CEDI3, VETH, EPMI, ACMI2
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 3
 Water 0
 Rock Outcrop 0
 Gravel 5
 Logging 1
 Fire: 0
 Stand Age 2/1
 Agriculture 0
 Livestock 0
 Development 2
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 CHJU, CESTM, LIDAD, CEDI3
Other Exotic Plants
 VETH, POBU

Water: 0
Rock: 0
Talus: 0
Gravel: 5
Bare Ground: 18
Moss Lichen: 2
Litter: 75

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/PHCA7/LONE4-ACOC3-POBU-PSSP6	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: OPEN PIPO/GRASS AREA, LOTS OF WEEDS

Polygon Number 64

ParkName:

Riverside

Survey Intensity	1	
Observer	RO, AM	
Date	8/7/2008	
Total Vegetation	5	
Trees Total	3	
Dominant Trees	PIPO	
emergent	0	
maincanopy	3	
subcanopy	3	
Shrubs Total	0	
Dominant Shrubs		
> 1.5' tall	0	
< 1.5' tall	0	
Graminoids Total	4	
Dominant Graminoids	PSSP6, POBU, BRAR5, ARPU9, BRTE, DAUN, KOMA, ELELE	
Graminoids Perennial	4	
Graminoids Annual	1	
Forbs Total	4	
Dominant Forbs	LONE4, ACMI2, VIVI, LIRU4, LUSE4, CHJU, LOMAT	
Forbs Perennial	4	
Forbs Annual	0	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	4	
Exotics Perennial	4	
Exotics Annual	1	
Water	0	
Rock Outcrop	0	
Gravel	5	
Logging	1	
Fire:	0	
Stand Age	5	
Agriculture	0	
Livestock	0	
Development	3	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants
 CHJU, LIDAD, HYPE, CEDI3, CESTM
Other Exotic Plants
 POBU, BRAR5, VETH, BRTE

Water:	0
Rock:	0
Talus:	0
Gravel:	5
Bare Ground:	3
Moss Lichen:	3
Litter:	89

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/CHJU-POBU-ARPU9-PSSP6	100	Matrix	POOR
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: patches of good native grassland mixed with lots of weeds

Polygon Number 65

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

0

OWNERS

Veg Community1: ownership issue

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes:

Polygon Number 66

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

0

OWNERS

Veg Community1: ownership issue

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes:

Polygon Number

67

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number

69

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number

70

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes: partly road

Percent Pattern Rank

0 N/A

0

0

Polygon Number 72A

ParkName:

Riverside

Survey Intensity 1
 Observer JR, RO, DH
 Date 7/11/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 1
 maincanopy 4
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs AMAL2, ARUV, MAAQ2
 > 1.5' tall 1
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids CARU, POBU, HECO26, FEID
 Graminoids Perennial 2
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs BASA3, APAN2, LUAR3
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 1
 Ferns Evergreen 0
 Ferns Deciduous 1
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 2
 Fire: ABOUT 14 YEARS
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 LIDAD, CESTM, HYPE
Other Exotic Plants
 POBU, TRDU

Water: 0
Rock: 0
Talus: 2
Gravel: 1
Bare Ground: 3
Moss Lichen: 2
Litter: 92

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/HECO26-BASA3-CARU	80	Matrix	GOOD
Veg Community1: PSME/CARU	Bourgeron and Engelking 1994; Williams and others 1995		G5
Existing Veg2: PSME/AMAL2/BASA3	20	Small patch	GOOD
Veg Community3: PSME/PSSP6	Williams and others 1995		G4
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 FOUND HERE; LIDAD HAS BEEN EATEN; MOUNDS OF DIRT, PIPELINE CONDUIT FOR EXOTICS

Polygon Number 72B

ParkName:

Riverside

Survey Intensity 1
 Observer DH, JR, HS, RO
 Date 7/11/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PSME, PIPO
 emergent 1
 maincanopy 4
 subcanopy 2
 Shrubs Total 4
 Dominant Shrubs PHMA5, SYAL, AMAL2, HODI
 > 1.5' tall 4
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids CARU, ELGL
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs MAST4, LOTR2, CRAT
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 2
 Ferns Evergreen 0
 Ferns Deciduous 2
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 10
 Rock Outcrop 2
 Gravel 1
 Logging 1
 Fire: 2
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, CESTM,

Other Exotic Plants

POBU, BRTE

Water: 10
Rock: 2
Talus: 6
Gravel: 1
Bare Ground: 1
Moss Lichen: 20
Litter: 60

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PSME/PHMA5-SYAL/CARU-MAST4	92	Matrix	GOOD
Veg Community1: PSME/CARU	Bourgeron and Engelking 1994; Williams and others 1995		G5
Existing Veg2: PSME/PSSP6	5	Small patch	FAIR
Veg Community3: rock outcrops/cliffs			
Existing Veg3: SRRZ	3	linear	FAIR
Veg Community3: river riparian zone			

Notes: OSPREY NEST; ANPA4 FOUND HERE

Polygon Number 72C

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH, AM
 Date 8/5/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 1
 maincanopy 4
 subcanopy 2
 Shrubs Total 4
 Dominant Shrubs PHMA5, AMAL2
 > 1.5' tall 4
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids CAGE2, POBU
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs APAN2
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 2
 Water 3
 Rock Outcrop 15
 Gravel 5
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

CESTM

Other Exotic Plants

Water: 3
Rock: 15
Talus: 10
Gravel: 5
Bare Ground: 2
Moss Lichen: 5
Litter: 60

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/PHMA5-AMAL2/CAGE2-APAN2	80	Matrix	GOOD
Veg Community1: PSME/PHMA5 Williams and others 1995			G5
Existing Veg2: PHMA5-AMAL2/POBU	17	Large patch	GOOD
Veg Community3: PHMA5			
Existing Veg3: SRRZ	3	linear	FAIR
Veg Community3: river riparian zone			

Notes:

Polygon Number 73

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/7/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO
 emergent 1
 maincanopy 4
 subcanopy 0
 Shrubs Total 0
 Dominant Shrubs 0
 > 1.5' tall 0
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids POBU
 Graminoids Perennial 3
 Graminoids Annual 0
 Forbs Total 3
 Dominant Forbs LONE4, GAAR, VIVI, LOMAT
 Forbs Perennial 3
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 2
 Logging 1
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 0
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, CHJU, ECVU

Other Exotic Plants

POBU

Water: 0
Rock: 0
Talus: 5
Gravel: 2
Bare Ground: 1
Moss Lichen: 1
Litter: 91

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-CHJU-LONE4	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Very small patch of small PIPO

Polygon Number 74

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent Pattern

0

Rank

OWNERS

Veg Community1: ownership issue

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes:

Polygon Number 75

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent Pattern

0

Rank

OWNERS

Veg Community1: ownership issue

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes:

Polygon Number 76

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent Pattern

0

Rank

OWNERS

Veg Community1: ownership issue

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes:

Polygon Number 77

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: ownership issue

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes: house and driveway

	Percent	Pattern	Rank
Existing Veg1:	0		OWNERS
Existing Veg2:	0		
Existing Veg3:	0		

Polygon Number

78

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 79

ParkName:

Riverside

Survey Intensity 2
 Observer PM
 Date 8/26/2008
 Total Vegetation 4
 Trees Total 0
 Dominant Trees
 emergent 0
 maincanopy 0
 subcanopy 0
 Shrubs Total 1
 Dominant Shrubs SANIC5, PHCA7
 > 1.5' tall 1
 < 1.5' tall 1
 Graminoids Total 4
 Dominant Graminoids ELRE4, POBU, BRTE, BRAR5
 Graminoids Perennial 4
 Graminoids Annual 3
 Forbs Total 3
 Dominant Forbs LUPIN, ANOF, SOLID, GRNA, GRNA, LIDAD, CESTM
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 0
 Exotics Annual 3
 Water 0
 Rock Outcrop 0
 Gravel 2
 Logging LOGGED
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 LIDAD, ANOF, CESTM, CHJU, EUES,
Other Exotic Plants
 ELRE4, BRTE, POBU

Water: 0
Rock: 0
Talus: 0
Gravel: 2
Bare Ground: 15
Moss Lichen: 1
Litter: 83

Vegetation Types

Percent	Pattern	Rank
100	Matrix	DEVELO

Existing Veg1: developed

Veg Community1: developed

Existing Veg2: 0

Veg Community3:

Existing Veg3: 0

Veg Community3:

Notes: POWERLINES WITH WEEDS AND EXOTICS

Polygon Number 80G ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/7/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO
 emergent 1
 maincanopy 4
 subcanopy 4
 Shrubs Total 2
 Dominant Shrubs AMAL2, ERCO12
 > 1.5' tall 2
 < 1.5' tall 1
 Graminoids Total 4
 Dominant Graminoids POBU, ARPU9, PSSP6, ELGL, BRTE
 Graminoids Perennial 4
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LUAR3, LONE4, APAN2, VIVI, LUSE4, LIRU4
 Forbs Perennial 3
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 5
 Logging 1
 Fire: 0
 Stand Age 5
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, ECVU, CHJU

Other Exotic Plants

POBU, BRTE

Water: 0
Rock: 0
Talus: 2
Gravel: 5
Bare Ground: 2
Moss Lichen: 1
Litter: 90

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2-ERCO12/BASA3-POBU-PSSP6	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 here

Polygon Number**80C****ParkName:****Riverside**

Survey Intensity	1	
Observer	RO, AM	
Date	8/7/2008	
Total Vegetation	5	
Trees Total	5	
Dominant Trees	PIPO	
emergent	1	
maincanopy	4	
subcanopy	4	
Shrubs Total	4	
Dominant Shrubs	AMAL2, ERNI2, PHLE4, SYAL, MAAQ2, ERHE2, PHMA5, ERUM	
> 1.5' tall	3	
< 1.5' tall	3	
Graminoids Total	3	
Dominant Graminoids	POBU, PSSP6, BRAR5, BRTE, ARPU9, HECO26, KOMA, LECI4,	
Graminoids Perennial	3	
Graminoids Annual	1	
Forbs Total	3	
Dominant Forbs	BASA3, PHCA7, LUSE4, HISCA, ACMI2, EUPHO, PHHA, LIRU4	
Forbs Perennial	3	
Forbs Annual	0	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
Exotics Total	3	
Exotics Perennial	3	
Exotics Annual	1	
Water	0	
Rock Outcrop	0	
Gravel	3	
Logging	1	
Fire:	0	
Stand Age	5	
Agriculture	0	
Livestock	0	
Development	3	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants
LIDAD, CHJU, ECVU, CEDI3

Other Exotic Plants
POBU, BRTE

Water:	0
Rock:	0
Talus:	1
Gravel:	3
Bare Ground:	1
Moss Lichen:	1
Litter:	94

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2-ERNI2-PHLE4/PSSP6-POBU-	ACMI2	90	Matrix GOOD
Veg Community1: PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg2: PIPO/MAAQ2-PHMA5-SYAL/HECO26-PECO6	10	Small patch	GOOD
Veg Community3: PIPO/PHMA5	Williams and others 1995		G2
Existing Veg3:	0		

Veg Community3:

Notes: ANPA4 found here; exotics bad along top of slope; better in the middle; has euphorbia, is invading in the forest.

Polygon Number 80D

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/7/2008
 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
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0
 Rock: 0
 Talus: 0
 Gravel: 0
 Bare Ground: 0
 Moss Lichen: 0
 Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: old field	100	Matrix	POOR
Veg Community1: former agricultural field			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number**80A****ParkName:****Riverside**

Survey Intensity	1
Observer	RO, AM
Date	8/7/2008
Total Vegetation	4
Trees Total	4
Dominant Trees	PIPO
emergent	1
maincanopy	4
subcanopy	4
Shrubs Total	3
Dominant Shrubs	SYAL, AMAL2, ERCO12
> 1.5' tall	3
< 1.5' tall	2
Graminoids Total	3
Dominant Graminoids	POBU, PSSP6, CAGE2, KOMA, ELELE, HECO26
Graminoids Perennial	3
Graminoids Annual	1
Forbs Total	3
Dominant Forbs	BASA3, LONE4, PHCA7, ACMI2, VIVI, APAN2, GAAR
Forbs Perennial	3
Forbs Annual	0
Ferns Total	0
Ferns Evergreen	0
Ferns Deciduous	0
ExoticsTotal	2
Exotics Perennial	2
Exotics Annual	0
Water	0
Rock Outcrop	0
Gravel	3
Logging	1
Fire:	0
Stand Age	5
Agriculture	0
Livestock	0
Development	3
Wildlife	3
Recreation Severity	3
Recreation Type	3
Hydrology	1

Exotic Species**Noxious Exotic Plants**

LIDAD, TRDU, RUAC3

Other Exotic Plants

POBU

Water:	0
Rock:	0
Talus:	5
Gravel:	3
Bare Ground:	3
Moss Lichen:	3
Litter:	86

Vegetation Types

	Percent	Pattern	Rank	
Existing Veg1:	PIPO/AMAL2-SYAL/POBU-BASA3-PSSP6	100	Matrix	GOOD
Veg Community1:	PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg2:		0		
Veg Community3:				
Existing Veg3:		0		
Veg Community3:				

Notes: ANPA4 found here

Polygon Number 80B

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/7/2008
 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
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0

Gravel 0

Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0
 Rock: 0
 Talus: 0
 Gravel: 0
 Bare Ground: 0
 Moss Lichen: 0
 Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: old ag field - private?	89	Matrix	OWNERS
Veg Community1: ownership issue			
Existing Veg2: powerline	11	linear	DEVELO
Veg Community3: developed			
Existing Veg3:	0		
Veg Community3:			

Notes: old field, structures

Polygon Number 80E

ParkName:

Riverside

Survey Intensity	1	
Observer	RO, AM	
Date	8/7/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO	
emergent	1	
maincanopy	4	
subcanopy	4	
Shrubs Total	2	
Dominant Shrubs	ERHE2	
> 1.5' tall	0	
< 1.5' tall	2	
Graminoids Total	4	
Dominant Graminoids	POBU, PSSP6, ELELE, FEID, KOMA, DAUN, FEOV	
Graminoids Perennial	4	
Graminoids Annual	0	
Forbs Total	3	
Dominant Forbs	BASA3, LONE4, VIVI, PHCA7, LUSE4, GAAR, ACMI2	
Forbs Perennial	3	
Forbs Annual	0	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	2	
Exotics Perennial	2	
Exotics Annual	0	
Water	0	
Rock Outcrop	0	
Gravel	1	
Logging	1	
Fire:	0	
Stand Age	5	
Agriculture	0	
Livestock	0	
Development	0	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD, CHJU

Other Exotic Plants

POBU

Water:	0
Rock:	0
Talus:	1
Gravel:	1
Bare Ground:	1
Moss Lichen:	1
Litter:	96

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/BASA3-LONE4-PSSP6	100	Matrix	GOOD
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number**80F****ParkName:****Riverside**

Survey Intensity	1
Observer	RO, AM
Date	8/7/2008
Total Vegetation	5
Trees Total	3
Dominant Trees	PIPO
emergent	0
maincanopy	3
subcanopy	3
Shrubs Total	0
Dominant Shrubs	
> 1.5' tall	0
< 1.5' tall	0
Graminoids Total	4
Dominant Graminoids	PSSP6, POBU, BRAR5, ARPU9, BRTE, DAUN, ELELE, KOMA
Graminoids Perennial	4
Graminoids Annual	1
Forbs Total	4
Dominant Forbs	LONE4, ACMI2, VIVI, LIRU4, LUSE4, CHJU, LOMAT
Forbs Perennial	4
Forbs Annual	0
Ferns Total	0
Ferns Evergreen	0
Ferns Deciduous	0
ExoticsTotal	4
Exotics Perennial	4
Exotics Annual	1
Water	0
Rock Outcrop	0
Gravel	5
Logging	1
Fire:	0
Stand Age	5
Agriculture	0
Livestock	0
Development	3
Wildlife	3
Recreation Severity	3
Recreation Type	3
Hydrology	1

Exotic Species**Noxious Exotic Plants**

CHJU, LIDAD, HYPE, CESTM, CEDI3,

Other Exotic Plants

POBU, BRAR5, VETH, BRTE

Water:	0
Rock:	0
Talus:	0
Gravel:	5
Bare Ground:	3
Moss Lichen:	3
Litter:	89

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/CHJU-POBU-ARPU9	100	Matrix	POOR
Veg Community1: PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: patches of good native grasslands mixed with lots of weeds; becomes mainly weedy at North end; EUES

Polygon Number

80H

ParkName:

Riverside

Survey Intensity 1
Observer RO, AM
Date 8/7/2008
Total Vegetation 4
Trees Total 2
Dominant Trees PIPO
emergent 0
maincanopy 2
subcanopy 1
Shrubs Total 3
Dominant Shrubs SADO4, ERCO12
> 1.5' tall 3
< 1.5' tall 0
Graminoids Total 3
Dominant Graminoids POBU, BRTE, ARPU9, PSSP6
Graminoids Perennial 3
Graminoids Annual 1
Forbs Total 3
Dominant Forbs GAAR, PHHA, BASA3
Forbs Perennial 3
Forbs Annual 0
Ferns Total 0
Ferns Evergreen 0
Ferns Deciduous 0
ExoticsTotal 3
Exotics Perennial 1
Exotics Annual 1
Water 0
Rock Outcrop 0

Gravel 20

Logging 1
Fire: 0
Stand Age 5
Agriculture 0
Livestock 0
Development 0
Wildlife 3
Recreation Severity 3
Recreation Type 3
Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD

Other Exotic Plants

BRTE, POBU

Water: 0

Rock: 0
Talus: 2
Gravel: 20
Bare Ground: 5
Moss Lichen: 0
Litter: 73

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/SADO4-ERCO12/BRTE-POBU-ARPU9	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number**81A****ParkName:****Riverside**

Survey Intensity	1
Observer	GW
Date	8/26/2008
Total Vegetation	4
Trees Total	4
Dominant Trees	PIPO
emergent	0
maincanopy	4
subcanopy	2
Shrubs Total	2
Dominant Shrubs	AMAL2, ROWO, ERNI2, ERNA10
> 1.5' tall	2
< 1.5' tall	1
Graminoids Total	4
Dominant Graminoids	POBU, CARO5, ELRE4, BRRA2, BRTE
Graminoids Perennial	4
Graminoids Annual	2
Forbs Total	3
Dominant Forbs	LUPIN, HYPE, COGR4, APFL, XAST, GRNA, SAKA, PODO4,
Forbs Perennial	3
Forbs Annual	2
Ferns Total	0
Ferns Evergreen	0
Ferns Deciduous	0
ExoticsTotal	4
Exotics Perennial	4
Exotics Annual	1
Water	0
Rock Outcrop	0
Gravel	0
Logging	0
Fire:	0
Stand Age	2
Agriculture	0
Livestock	0
Development	3
Wildlife	3
Recreation Severity	1
Recreation Type	1
Hydrology	1

Exotic Species**Noxious Exotic Plants**

CHJU, LIDAD, CESTM, EUES

Other Exotic Plants

HYPE, POBU, BRRA2, BRTE, SAKA,

Water:	0
Rock:	0
Talus:	0
Gravel:	0
Bare Ground:	50
Moss Lichen:	0
Litter:	50

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-BRTE-CHVI8	50	Matrix	POOR
Veg Community1: PIPO/FEID		Bourgeron and Engelking 1994	G4
Existing Veg2: CHJU/sand	50	Scattered, more	POOR
Veg Community3: disturbed/weedy			
Existing Veg3:	0		
Veg Community3:			

Notes: POBU IS DOMINANT EXOTIC (UNDER TREES)

Polygon Number 81G

ParkName:

Riverside

Survey Intensity 2
Observer GW
Date 8/27/2008
Total Vegetation 5
Trees Total 3
Dominant Trees PIPO
emergent 0
maincanopy 2
subcanopy 2
Shrubs Total 0
Dominant Shrubs
> 1.5' tall 0
< 1.5' tall 0
Graminoids Total 4
Dominant Graminoids POBU, ACOC3, BRRA2
Graminoids Perennial 4
Graminoids Annual 2
Forbs Total 3
Dominant Forbs LUPIN, LIDAD, CHJU, CESTM, LOMA3, BASA3, GRNA, PLPA2,
Forbs Perennial 2
Forbs Annual 0
Ferns Total 0
Ferns Evergreen 0
Ferns Deciduous 0
ExoticsTotal 4
Exotics Perennial 4
Exotics Annual 2
Water 0
Rock Outcrop 0

Gravel 0

Logging 0
Fire: 0
Stand Age 0
Agriculture 0
Livestock 0
Development 5 (ORV trails)
Wildlife 3
Recreation Severity 1
Recreation Type 1
Hydrology 1

Exotic Species

Noxious Exotic Plants
 CESTM, CHJU, LIDAD, PORE5
Other Exotic Plants
 POBU

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 20
Moss Lichen: 0
Litter: 80

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: CESTM-ACOC3-PLMA2	80	Matrix	POOR
Veg Community1: disturbed/weedy			
Existing Veg2: PIPO/FEID	20	Large patch	POOR
Veg Community3: disturbed/weedy			
Existing Veg3:	0		
Veg Community3:			

Notes: May have originally been PIPO/ACOC3 but no PA of that name

Polygon Number 81D

ParkName:

Riverside

Survey Intensity	4	
Observer	PM	
Date	8/27/2008	
Total Vegetation	4	
Trees Total	4	
Dominant Trees	PIPO	
emergent	0	
maincanopy	4	
subcanopy	3	
Shrubs Total	2	
Dominant Shrubs	AMAL2	
> 1.5' tall	2	
< 1.5' tall	1	
Graminoids Total	4	
Dominant Graminoids	POBU, BARRA2, BRTE, CAGE2, FEID, ELRE4, ELELE	
Graminoids Perennial	4	
Graminoids Annual	3	
Forbs Total	3	
Dominant Forbs	ANPA4, ACMI2, HYPE, LIDAD, CESTM, BASA3, PLPA2, ARCO5	
Forbs Perennial	3	
Forbs Annual	2	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	3	
Exotics Perennial	3	
Exotics Annual	3	
Water	0	
Rock Outcrop	0	
Gravel	5	
Logging	1	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	0	
Wildlife	3	
Recreation Severity	1	
Recreation Type	1	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

CESTM, HYPE, LIDAD

Other Exotic Plants

POBU, BARRA2, BRTE

Water:	0
Rock:	0
Talus:	0
Gravel:	5
Bare Ground:	35
Moss Lichen:	3
Litter:	57

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2/FEID-POBU-BARRA2	100	Matrix	POOR
Veg Community1: disturbed/weedy			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: POLYGON TRASHED BY ORVS.

Polygon Number 81C

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 8/27/2008
 Total Vegetation 2
 Trees Total 1
 Dominant Trees PIPO, ULPU
 emergent 0
 maincanopy 0
 subcanopy 1
 Shrubs Total 1
 Dominant Shrubs SAEX, ROWO
 > 1.5' tall 1
 < 1.5' tall 0
 Graminoids Total 1
 Dominant Graminoids POBU, BRR2
 Graminoids Perennial 1
 Graminoids Annual 1
 Forbs Total 1
 Dominant Forbs POLGY4, CHJU, TRTE, GRNA, SIAL2
 Forbs Perennial 1
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 1
 Exotics Perennial 1
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 0
 Agriculture 0
 Livestock 0
 Development 5 (ORV trails)
 Wildlife 3
 Recreation Severity 1
 Recreation Type 1
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 CHJU, TRTE, CESTM
Other Exotic Plants
 POBU

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 99
Moss Lichen: 0
Litter: 1

Vegetation Types

Percent	Pattern	Rank
100	Matrix	POOR

Existing Veg1: disturbed sand
Veg Community1: disturbed/weedy
 Existing Veg2:
Veg Community3:
 Existing Veg3:
Veg Community3:

Notes:

Polygon Number 81B

ParkName:

Riverside

Survey Intensity 4
 Observer GW
 Date 12/10/2008
 Total Vegetation 5
 Trees Total 2
 Dominant Trees PIPO
 emergent 0
 maincanopy 2
 subcanopy 0
 Shrubs Total 2
 Dominant Shrubs AMAL2, ERNI2, ERNA10
 > 1.5' tall 2
 < 1.5' tall 2
 Graminoids Total 4
 Dominant Graminoids POBU, ACOC3, PSSP6, CARO5, BRRA2, ELRE4, BRTE
 Graminoids Perennial 4
 Graminoids Annual 3
 Forbs Total 4
 Dominant Forbs ACMI2, CESTM, CHJU, LIDAD, EUES, ECVU, PORE5, SAKA,
 Forbs Perennial 3
 Forbs Annual 3
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 4
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 2
 Stand Age 0
 Agriculture 0
 Livestock 0
 Development 5 (ORV trails)
 Wildlife 3
 Recreation Severity 1
 Recreation Type 1
 Hydrology 1

Exotic Species

Noxious Exotic Plants

CESTM, CHJU, LIDAD, EUES, ECVU,

Other Exotic Plants

POBU, SAKA

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 25
Moss Lichen: 0
Litter: 75

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-BRTE	100	Matrix	POOR
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Similar to 807B across ravine and 81A (but with less trees)

Polygon Number 81E

ParkName:

Riverside

Survey Intensity	4	
Observer	GW	
Date	12/10/2008	
Total Vegetation	4	
Trees Total	3	
Dominant Trees	PIPO	
emergent	0	
maincanopy	2	
subcanopy	2	
Shrubs Total	0	
Dominant Shrubs		
> 1.5' tall	0	
< 1.5' tall	0	
Graminoids Total	4	
Dominant Graminoids	ACOC3, POBU, BRRA2	
Graminoids Perennial	4	
Graminoids Annual	2	
Forbs Total	3	
Dominant Forbs	LUPIN, LIDAD, CHJU, CESTM, GRNA, PLPA2, MADIA	
Forbs Perennial	3	
Forbs Annual	2	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	4	
Exotics Perennial	4	
Exotics Annual	2	
Water	0	
Rock Outcrop	0	
Gravel	0	
Logging	0	
Fire:	0	
Stand Age	0	
Agriculture	0	
Livestock	0	
Development	5 (ORV trails)	
Wildlife	3	
Recreation Severity	1	
Recreation Type	1	
Hydrology	1	

Exotic Species

Noxious Exotic Plants
LIDAD, CESTM, CHJU, PORE5
Other Exotic Plants
POBU

Water:	0
Rock:	0
Talus:	0
Gravel:	0
Bare Ground:	35
Moss Lichen:	0
Litter:	65

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU	50	Matrix	POOR
Veg Community1: PIPO/FEID		Bourgeron and Engelking 1994	G4
Existing Veg2: CESTM-ACOC3-PLMA2	50	Large patch	POOR
Veg Community3: ACOC3		Undescribed	-G2
Existing Veg3:	0		
Veg Community3:			

Notes: Data recreated by comparisons to similar 81G (and walked thru in August)

Polygon Number 81F

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 8/27/2008
 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
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Exotic Species

Noxious Exotic Plants
 LIDAD, CHJU
Other Exotic Plants

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 0
Moss Lichen: 0
Litter: 0

Vegetation Types

Percent	Pattern	Rank
100	Matrix	DEVELO

Existing Veg1: disturbed
 Veg Community1: developed

Existing Veg2: 0

Veg Community3:

Existing Veg3: 0

Veg Community3:

Notes: SAME AS PETERS PLOT FROM YESTERDAY 8/26 - POLY. 79 THIS PART IS FLAT AND GRASSY.

Polygon Number 81H

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 8/26/2008
 Total Vegetation 4
 Trees Total 1
 Dominant Trees PIPO
 emergent 0
 maincanopy 1
 subcanopy 1
 Shrubs Total 1
 Dominant Shrubs ERNA10, SAEX, ERN12
 > 1.5' tall 1
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids SPCR, POBU, FEID, BRTE
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs HEVIV, SAOF4, LIDAD, CHJU, PHHA
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 0
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 1
 Recreation Type 1
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 LIDAD, CEDI3, CESTM
Other Exotic Plants

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 70
Moss Lichen: 0
Litter: 30

Vegetation Types

Percent	Pattern	Rank
100	Matrix	POOR

Existing Veg1: CHJU-SPCR-POBU

Veg Community1: disturbed/weedy

Existing Veg2: 0

Veg Community3:

Existing Veg3: 0

Veg Community3:

Notes:

Polygon Number 82

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 7/16/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO
 emergent 2
 maincanopy 4
 subcanopy 2
 Shrubs Total 1
 Dominant Shrubs AMAL2
 > 1.5' tall 1
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids POBU, ACOC3, HOJU, BRAR5, FEID
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LUAR3, LONE4
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 3
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6 (roads, power)
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 LIDAD, HYPE
Other Exotic Plants
 POBU, TRDU, BRAR5, TAOF

Water: 0
Rock: 0
Talus: 1
Gravel: 3
Bare Ground: 3
Moss Lichen: 7
Litter: 86

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/BASA3-LUAR3-POBU	100	Matrix	GOOD
Veg Community1: PIPO/FEID		Bourgeron and Engelking 1994	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found throughout

Polygon Number

83

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

0

N/A

Veg Community1: N/A

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes: accessibility question

Polygon Number 84

ParkName:

Riverside

Survey Intensity 1
 Observer RO, JR, DH
 Date 8/8/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 2
 maincanopy 4
 subcanopy 2
 Shrubs Total 3
 Dominant Shrubs AMAL2, SYAL, PHMA5, ARRI2, ARUV
 > 1.5' tall 3
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids CARU, FEOV, PSSP6, POBU, HECO26
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LONE4, LUSE4, APAN2, HISCA
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 1
 Ferns Evergreen 0
 Ferns Deciduous 1
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 5
 Gravel 5
 Logging 1
 Fire: 0
 Stand Age 5
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE, CHJU

Other Exotic Plants

TRDU, POBU, TAOF

Water: 0
Rock: 5
Talus: 20
Gravel: 5
Bare Ground: 12
Moss Lichen: 5
Litter: 53

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2/PSSP6-BASA3-POBU	70	Matrix	GOOD
Veg Community1: PSME/PSSP6 Williams and others 1995			G4
Existing Veg2: PIPO-PSME/SYAL-PHMA5-AMAL2/CARU-	FEOV 30		Scattered, more GOOD
Veg Community3: PSME/PHMA5 Williams and others 1995			G5
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found here

Polygon Number 85

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: ownership issue

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes: tiny parcel outside of park boundary

Percent	Pattern	Rank
0		OWNERS
0		
0		

Polygon Number 86A

ParkName:

Riverside

Survey Intensity 2
 Observer PM
 Date 8/27/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 1
 maincanopy 4
 subcanopy 4
 Shrubs Total 2
 Dominant Shrubs AMAL2, ERNI2, RICE, PHCA7
 > 1.5' tall 2
 < 1.5' tall 1
 Graminoids Total 4
 Dominant Graminoids POBU, BRRA2, ARIST, BRTE, PSSP6, FEID, CAGE2
 Graminoids Perennial 4
 Graminoids Annual 4
 Forbs Total 3
 Dominant Forbs LIDAD, EPBR3, BASA3, LUPIN, ACMI2, LIRU4, ASMI9
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 3
 Exotics Annual 3
 Water 0
 Rock Outcrop 0
 Gravel 10
 Logging 1
 Fire: 0
 Stand Age 3
 Agriculture 0
 Livestock 0
 Development 0
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology

Exotic Species

Noxious Exotic Plants

LIDAD

Other Exotic Plants

POBU, BRTE, BRRA2

Water: 0
Rock: 0
Talus: 2
Gravel: 10
Bare Ground: 10
Moss Lichen: 5
Litter: 73

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2/BRRA2-POBU-ARIST-CAGE2	100	Matrix	FAIR
Veg Community1: PSME/PSSP6 Williams and others 1995			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: SOME RECENT CUT STUMPS, BUT NO RECENT LOGGING; STEEP SLOPE, MODERATLY CLOSED FOREST.

Polygon Number**86B****ParkName:****Riverside**

Survey Intensity 1
Observer JR, DH
Date 8/4/2008
Total Vegetation 5
Trees Total 4
Dominant Trees PIPO
emergent 2
maincanopy 4
subcanopy 3
Shrubs Total 2
Dominant Shrubs ARUV, ERHE2, AMAL2, ROWO
> 1.5' tall 2
< 1.5' tall 2
Graminoids Total 3
Dominant Graminoids POBU, BRTE, PSSP6, HECO26
Graminoids Perennial 3
Graminoids Annual 3
Forbs Total 4
Dominant Forbs BASA3, LUAR3, LUSE4, ACMI2, APAN2
Forbs Perennial 4
Forbs Annual 2
Ferns Total 0
Ferns Evergreen 0
Ferns Deciduous 0
ExoticsTotal 3
Exotics Perennial 3
Exotics Annual 3
Water 2
Rock Outcrop 0

Gravel 1

Logging 1
Fire: 0
Stand Age 2
Agriculture 0
Livestock 0
Development 6
Wildlife 3
Recreation Severity 3
Recreation Type 3
Hydrology 1

Exotic Species**Noxious Exotic Plants**

LIDAD, HYPE, CHJU, CESTM, ECVU

Other Exotic Plants

POBU, BRTE, TRDU

Water: 2

Rock: 0
Talus: 2
Gravel: 1
Bare Ground: 1
Moss Lichen: 5
Litter: 89

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-BASA3	60	Matrix	GOOD
Veg Community1: PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg2: PIPO/POBU-BASA3-CHJU	30	Large patch	FAIR
Veg Community3: PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg3: PIPO/ROWO-AMAL2/POBU-HECO26-GAAR	10	linear	FAIR
Veg Community3: PIPO/HECO26	Bourgeron and Engelking 1994		G1

Notes: ANPA4 found here; ex veg 3 many young trees, unhealthy in appearance and is along slope

Polygon Number**87A****ParkName:****Riverside**

Survey Intensity	1	
Observer	RO	
Date	8/29/2008	
Total Vegetation	4	
Trees Total	4	
Dominant Trees	PIPO, PSME, ACGLD4	
emergent	0	
maincanopy	4	
subcanopy	0	
Shrubs Total	3	
Dominant Shrubs	AMAL2, PHMA5, SYAL, ARUV	
> 1.5' tall	3	
< 1.5' tall	2	
Graminoids Total	3	
Dominant Graminoids	CARU, FEID, PSSP6, POBU, VEDU, KOMA	
Graminoids Perennial	3	
Graminoids Annual	2	
Forbs Total	3	
Dominant Forbs	MAST4, ARCO9, BASA3, HISCA, VIVI, ASMI9, ARCO5, LUAR3,	
Forbs Perennial	3	
Forbs Annual	1	
Ferns Total	1	
Ferns Evergreen	0	
Ferns Deciduous	1	
ExoticsTotal	2	Exotic Species
Exotics Perennial	2	Noxious Exotic Plants
Exotics Annual	2	LIDAD, CHJU
Water	0	Other Exotic Plants
Rock Outcrop	0	VEDU, POBU
		Water: 0
Gravel	3	Rock: 0
		Talus: 5
Logging	0	Gravel: 3
Fire:	0	Bare Ground: 2
Stand Age	2	Moss Lichen: 8
Agriculture	0	Litter: 82
Livestock	6	
Development	6	
Wildlife	3	
Recreation Severity	3	
Recreation Type	4	
Hydrology	1	

Vegetation Types

		Percent	Pattern	Rank
Existing Veg1:	PIPO-PSME/ARU/PSSP6-KOMA-FEID	90	Matrix	GOOD
Veg Community1:	PSME/PSSP6 Williams and others 1995			G4
Existing Veg2:	PIPO-PSME/PHMA5-SYAL-AMAL2	10	Small patch	GOOD
Veg Community3:	PSME/PHMA5 Williams and others 1995			G5
Existing Veg3:		0		
Veg Community3:				

Notes: ANPA4 present throughout; exist veg 2 PA is the same as 95E - perhaps redraw polygon lines along contour. Exist veg 1 PA dominant for polygon as is currently

Polygon Number 87B

ParkName:

Survey Intensity 1
Observer RO
Date 8/29/2008

Riverside

Total Vegetation 4
Trees Total 4
Dominant Trees PIPO, PSME
emergent 0
maincanopy 4
subcanopy 0
Shrubs Total 3
Dominant Shrubs ARUV, AMAL2, PHLE4
> 1.5' tall 3
< 1.5' tall 1
Graminoids Total 3
Dominant Graminoids PSSP6, FEID, KOMA, POBU, CARU
Graminoids Perennial 3
Graminoids Annual 1
Forbs Total 0
Dominant Forbs
Forbs Perennial 0
Forbs Annual 0
Ferns Total 0
Ferns Evergreen 0
Ferns Deciduous 0
ExoticsTotal 0
Exotics Perennial 0
Exotics Annual 0
Water 0
Rock Outcrop 15

Gravel 5

Logging 0
Fire: 0
Stand Age 2
Agriculture 0
Livestock 6
Development 6
Wildlife 3
Recreation Severity 3
Recreation Type 4
Hydrology 1

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0
Rock: 15
Talus: 10
Gravel: 5
Bare Ground: 2
Moss Lichen: 5
Litter: 63

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/ARUV-AMAL2/CARU-FEID-PSSP6	70	Matrix	GOOD
Veg Community1: PSME/PSSP6 Williams and others 1995			G4
Existing Veg2: PIPO/ERNI2/PSSP6	30	Large patch	GOOD
Veg Community3: rock outcrops/cliffs			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 present throughout - same as 87A except for rock outcrop PA and no influence of river (i.e. north-facing shrubbery PA)

Polygon Number 88

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent Pattern

0

Rank

OWNERS

Veg Community1: ownership issue

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes: tiny parcel outside of park boundary

Polygon Number 90

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

Veg Community1: ownership issue

0

OWNERS

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes:

Polygon Number 91

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 9/8/2008
 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
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0
 Rock: 0
 Talus: 0
 Gravel: 0
 Bare Ground: 0
 Moss Lichen: 0
 Litter: 0

Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: developed	100	Matrix	DEVELO
Veg Community1: developed			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: House; developed

Polygon Number 92

ParkName:

Riverside

Survey Intensity 2
 Observer GW
 Date 8/29/2008
 Total Vegetation 6
 Trees Total 4
 Dominant Trees PSME, PIPO
 emergent 1
 maincanopy 4
 subcanopy 4
 Shrubs Total 3
 Dominant Shrubs MAAQ2, SYAL, PHMA5, ARUV, PHLE4, AMAL
 > 1.5' tall 3
 < 1.5' tall 1
 Graminoids Total 4
 Dominant Graminoids FEID, FEOC, BRIN2, CARO5, ELGL
 Graminoids Perennial 4
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs ACMI2, PHMA5, ANPA4, LONE4, FRVI
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 1
 Exotics Perennial 1
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 2
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

ECVU, LIDAD, CHJU

Other Exotic Plants

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 2
Moss Lichen: 10
Litter: 88

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/SYAL/BRIN2	40	Matrix	FAIR
Veg Community1: PSME/FEID			
Existing Veg2: PSME/PHMA5	10	Small patch	FAIR
Veg Community3: PSME/PHMA5		Williams and others 1995	G5
Existing Veg3: PIPO-PSME/MAAQ2	50	Large patch	FAIR
Veg Community3: PSME/MAAQ2			

Notes: SIMILAR TO 95B BUT MORE YOUNG TREES AND MORE DISTURBANCE AND MORE WEEDS.

Polygon Number 93

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 9/8/2008
 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
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0
 Rock: 0
 Talus: 0
 Gravel: 0
 Bare Ground: 0
 Moss Lichen: 0
 Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: developed	100	Matrix	DEVELO
Veg Community1: developed			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			
Notes: House; developed			

Polygon Number 95D

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 8/29/2008
 Total Vegetation 6
 Trees Total 5
 Dominant Trees ULAM, PIPO, PSME
 emergent 2
 maincanopy 5
 subcanopy 3
 Shrubs Total 4
 Dominant Shrubs MAAQ2, ROWO, SYAL, TORY, AMAL2, PHLE4, SANIC5, SAEX
 > 1.5' tall 4
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids POBU, ELGL, FEOC, PSSP6, THIN6
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs COGR4, TAVU, CIUN, VIVI, BASA3, ACMI2, LIDAD, ECVU, CHJU,
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 1
 Exotics Perennial 1
 Exotics Annual 1
 Water 1
 Rock Outcrop 1
 Gravel 3
 Logging 0
 Fire: 0
 Stand Age 3
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 2

Exotic Species

Noxious Exotic Plants

LIDAD, ECVU, CHJU

Other Exotic Plants

POBU, TAVU

Water: 1
Rock: 1
Talus: 1
Gravel: 3
Bare Ground: 1
Moss Lichen: 2
Litter: 91

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PSME-PIPO/PHMA5-PHLE4-ROWO/ELGL-CARU-POBU --slope	45		Matrix GOOD
Veg Community1: PSME/PHMA5 Williams and others 1995			G5
Existing Veg2: PSME-PIPO/SYAL/ELGL	50	Small patch	FAIR
Veg Community3: PSME/SYAL Daubenmire and Daubenmire 1984			G5
Existing Veg3: ULAM/SAEX/ELGL	5	linear	FAIR
Veg Community3: river riparian zone			
Notes: PSME/PHMA5 BEGINS FARTHER SOUTH			

Polygon Number 95Y

ParkName:

Riverside

Survey Intensity	2	
Observer	GW	
Date	8/29/2008	
Total Vegetation	6	
Trees Total	4	
Dominant Trees		
emergent	3	
maincanopy	3	
subcanopy	2	
Shrubs Total	5	
Dominant Shrubs	SYAL, AMAL2, PHMA5	
> 1.5' tall	5	
< 1.5' tall	2	
Graminoids Total	4	
Dominant Graminoids	POBU, ELGL, CARU, BRRA2	
Graminoids Perennial	4	
Graminoids Annual	1	
Forbs Total	3	
Dominant Forbs	EUES, HYPE, APAN2, ACMI2, COLLO, VIVI, HECY2, ANPA4, FRVI	
Forbs Perennial	0	
Forbs Annual	0	
Ferns Total	1	
Ferns Evergreen	0	
Ferns Deciduous	1	
ExoticsTotal	2	Exotic Species
Exotics Perennial	2	Noxious Exotic Plants
Exotics Annual	2	EUES, PORE5
Water	0	Other Exotic Plants
Rock Outcrop	1	BRRA2
Gravel	0	Water: 0
Logging	0	Rock: 1
Fire:	0	Talus: 1
Stand Age	1	Gravel: 0
Agriculture	4	Bare Ground: 2
Livestock	4	Moss Lichen: 40
Development	0	Litter: 56
Wildlife	2	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PSME-PIPO/PHMA5	90	Matrix	FAIR
Veg Community1: PSME/PHMA5		Williams and others 1995	G5
Existing Veg2: PIPO/SYAL/EUES - old field	10	Large patch	POOR
Veg Community3: former agricultural field			
Existing Veg3:	0		
Veg Community3:			

Notes: TOP(SW) part is shrub steppe w/ open pipo; slope is moderatly dense PSME/PHMA5. Shrub steppe is an old field; extreamly weedy w/ EUES and PORE3.

Polygon Number 95A ParkName:

Riverside

Survey Intensity 1
 Observer RO, JR, DH
 Date 8/8/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 2
 maincanopy 4
 subcanopy 2
 Shrubs Total 3
 Dominant Shrubs AMAL2, SYAL, PHMA5, ARRI2, ARUV
 > 1.5' tall 3
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids CARU, FEOV, PSSP6, POBU, HECO26
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LONE4, LUSE4, APAN2, HISCA
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 1
 Ferns Evergreen 0
 Ferns Deciduous 1
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 5
 Gravel 5
 Logging 1
 Fire: 0
 Stand Age 5
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 LIDAD, HYPE, CHJU
Other Exotic Plants
 TRDU, POBU, TAOF

Water: 0
Rock: 5
Talus: 20
Gravel: 5
Bare Ground: 12
Moss Lichen: 5
Litter: 53

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/AMAL2/PSSP6-BASA3-POBU	70	Matrix	GOOD
Veg Community1: PSME/PSSP6 Williams and others 1995			G4
Existing Veg2: PIPO-PSME/SYAL-PHMA5-AMAL2/CARU-	FEOV 30		Scattered, more GOOD
Veg Community3: PSME/PHMA5 Williams and others 1995			G5
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found here

Polygon Number 95C

ParkName:

Riverside

Survey Intensity	2	
Observer	RO, JR, DH	
Date	8/8/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO, PSME	
emergent	2	
maincanopy	4	
subcanopy	1	
Shrubs Total	4	
Dominant Shrubs	PHMA5, SYAL, AMAL2, PHLE4, ARUV, RUPA, MAAQ2	
> 1.5' tall	4	
< 1.5' tall	2	
Graminoids Total	3	
Dominant Graminoids	CARU, POBU	
Graminoids Perennial	3	
Graminoids Annual	1	
Forbs Total	3	
Dominant Forbs	MAST4, BASA3, PEGA3, LUSE4, LONE4	
Forbs Perennial	3	
Forbs Annual	1	
Ferns Total	1	
Ferns Evergreen	0	
Ferns Deciduous	1	
ExoticsTotal	2	
Exotics Perennial	2	
Exotics Annual	1	
Water	0	
Rock Outcrop	35	
Gravel	1	
Logging	1	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	6	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants
CESTM, CHJU, HYPE, LIDAD
Other Exotic Plants
POBU, BRTE, TRDU

Water:	0
Rock:	35
Talus:	11
Gravel:	1
Bare Ground:	1
Moss Lichen:	2
Litter:	50

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PSME-PIPO/PHMA5-SYAL-PHLE4/CARU-	MAST4-POBU	85	Matrix GOOD
Veg Community1: PSME/PHMA5	Williams and others 1995		G5
Existing Veg2: talus/rocky outcrop	15	other	GOOD
Veg Community3: talus			
Existing Veg3:	0		
Veg Community3:			

Notes: ExVeg2-small patches in portion of polygon

Polygon Number 95B

ParkName:

Riverside

Survey Intensity 2
 Observer GW
 Date 8/29/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 1
 maincanopy 4
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs CESA, ARUV, AMAL2
 > 1.5' tall 2
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids BRIN2, PSSP6, FEID, FEOV, POBU
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs HYPE, APAN2, ECVU, VIVI, HISCA, LUPIN, ANPA4, FRVI, SEDUM,
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 1
 Exotics Perennial 1
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: YES
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 0
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

PORE5, ECVU, LIDAD

Other Exotic Plants

HYPE, BRRA2

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 5
Moss Lichen: 10
Litter: 85

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/LUPIN-FEID	100	Matrix	GOOD
Veg Community1: PIPO/FEID		Bourgeron and Engelking 1994	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: OPEN FOREST; A LOT OF REGEN; OLD FIRE; GRASS HIGH, SHRUBS LOW; FIRE SPRESSION EFFECTS NOT EXTREME.

Polygon Number 95E

ParkName:

Riverside

Survey Intensity 1
 Observer ROQ
 Date 8/28/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 0
 maincanopy 4
 subcanopy 3
 Shrubs Total 4
 Dominant Shrubs PHMA5, PHLE4, ACGLD4, SYAL, MAAQ2, SALIX
 > 1.5' tall 3
 < 1.5' tall 3
 Graminoids Total 3
 Dominant Graminoids CARU, FEID, PSSP6, POSE, PHAR3
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 2
 Dominant Forbs BASA3, MAST4
 Forbs Perennial 2
 Forbs Annual 2
 Ferns Total 1
 Ferns Evergreen 0
 Ferns Deciduous 1
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 1
 Rock Outcrop 3
 Gravel 3
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 6
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 3

Exotic Species

Noxious Exotic Plants

CESTM, LIDAD

Other Exotic Plants

Water: 1
Rock: 3
Talus: 4
Gravel: 3
Bare Ground: 1
Moss Lichen: 10
Litter: 78

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PSME-PIPO/PHMA5-SYAL-PHLE4/CARU	85	Matrix	GOOD
Veg Community1: PSME/PHMA5 Williams and others 1995			G5
Existing Veg2: riparian zone dominated by SALIX-FRLA/PHAR3	13	Large patch	FAIR
Veg Community3: river riparian zone			
Existing Veg3: trail	2	Large patch	DEVELO
Veg Community3: developed			

Notes: ROCKY OUTCROPS AT SOUTHERN END OF THIS POLY. MARK THE EDGE OF AN EXTENSIVE HAC14 POPULATION.

Polygon Number 95Z

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 8/28/2008
 Total Vegetation 5
 Trees Total 3
 Dominant Trees ACNE2, ACSA2
 emergent 0
 maincanopy 3
 subcanopy 2
 Shrubs Total 3
 Dominant Shrubs VIMI2, COSE16, ARAB3, SALUL, SPDO
 > 1.5' tall 3
 < 1.5' tall 1
 Graminoids Total 4
 Dominant Graminoids PHAR3, unk, JUNCU, CARO5
 Graminoids Perennial 4
 Graminoids Annual 1
 Forbs Total 4
 Dominant Forbs SODU, IRPS, MEAR4, MYOSO, BIFR, ROIS2, ARTH, GRNE, POPE3,
 Forbs Perennial 2
 Forbs Annual 4
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 3
 Exotics Annual 4
 Water 0
 Rock Outcrop 0
 Gravel 5
 Logging 0
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 0
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 2

Exotic Species

Noxious Exotic Plants

IRPS, PHAR3, ARAB3

Other Exotic Plants

VIMI2, SODU, ACNE2

Water: 0
Rock: 0
Talus: 0
Gravel: 5
Bare Ground: 0
Moss Lichen: 93
Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: SALUL-ACNE2/PHAR3-ROIS2	100	Matrix	POOR
Veg Community1: SALUL/COSE16 Undescribed			G2
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: RIPARIAN BOTTONLAND WITH SILTY SOIL AND DECIDUOUS FOREST. Searched thoroughly for Spartina pectina and it wasn't there.

Polygon Number 96A

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 8/29/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO
 emergent 3
 maincanopy 2
 subcanopy 1
 Shrubs Total 2
 Dominant Shrubs AMAL2
 > 1.5' tall 2
 < 1.5' tall 1
 Graminoids Total 4
 Dominant Graminoids ACOC3, BRIN2, KOMA, PSSP6, POBU, POPR
 Graminoids Perennial 4
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs TRDU, LIRU4, ACMI2, RUAC3
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 3
 Agriculture 0
 Livestock 0
 Development 5 (roads, houses)
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, PORE5

Other Exotic Plants

TRDU, HYPE

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 0
Moss Lichen: 0
Litter: 100

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/LIDAD-ACOC3	100	Matrix	FAIR
Veg Community1: PIPO/FEID Bourgeron and Engelking 1994			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: SIMILAR TO 659 BUT MORE OVERSTORY > 100 YRS

Polygon Number 96B

ParkName:

Riverside

Survey Intensity 2
 Observer GW
 Date 8/29/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 0
 maincanopy 3
 subcanopy 3
 Shrubs Total 3
 Dominant Shrubs PHMA5, PHLE4, SYAL, RHGL
 > 1.5' tall 3
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids CARO5, POBU, KOMA, CARU
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 4
 Dominant Forbs BASA3, LIDAD, LUPIN ANPA4, SILEN, PYCAC2, GETR, ACMI2,
 Forbs Perennial 4
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, ECVU

Other Exotic Plants

POBU, BRTE

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 2
Moss Lichen: 4
Litter: 94

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/LIDAD-POBU-LUPIN	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: LIDAD IS DOMINANT UNDERSTORY

Polygon Number 97

ParkName:

Riverside

Survey Intensity 2
 Observer GW
 Date 8/29/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 1
 maincanopy 4
 subcanopy 4
 Shrubs Total 1
 Dominant Shrubs ARUV, ERN12
 > 1.5' tall 0
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids CARO5, POBU, BRRA2
 Graminoids Perennial 2
 Graminoids Annual 2
 Forbs Total 1
 Dominant Forbs OLDO, ANPA4, LIDAD, ANMI3, LUPIN, LONE4, PYCAC2
 Forbs Perennial 1
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 1
 Exotics Annual 3
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 0
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD

Other Exotic Plants

POBU, BRRA2

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 5
Moss Lichen: 20
Litter: 75

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-BRRA2	50	Matrix	FAIR
Veg Community1: PIPO/FEID		Bourgeron and Engelking 1994	G4
Existing Veg2: PIPO/sterile needles	50	Large patch	FAIR
Veg Community3: PIPO/FEID		Bourgeron and Engelking 1994	G4
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number

99B

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

Veg Community1: N/A

0

N/A

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes:

Polygon Number

99A

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 100

ParkName:

Riverside

Survey Intensity	1	
Observer	GW	
Date	8/29/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO, PSME	
emergent	1	
maincanopy	4	
subcanopy	2	
Shrubs Total	1	
Dominant Shrubs	AMAL2, CESA, PHLE4	
> 1.5' tall	1	
< 1.5' tall	0	
Graminoids Total	4	
Dominant Graminoids	POBU, CARU, KOMA, PSSP6, ACOC3, BRTE	
Graminoids Perennial	4	
Graminoids Annual	1	
Forbs Total	3	
Dominant Forbs	ANPA4, LIDAD, VIVI, ACMI2, LONE4, HYPE, APAN2, BASA3	
Forbs Perennial	3	
Forbs Annual	1	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	2	
Exotics Perennial	2	
Exotics Annual	0	
Water	0	
Rock Outcrop	0	
Gravel	1	
Logging	2	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	5	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE, CHJU

Other Exotic Plants

POBU, BRTE

Water:	0
Rock:	0
Talus:	1
Gravel:	1
Bare Ground:	3
Moss Lichen:	4
Litter:	91

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1:	PIPO/POBU-LIDAD-PSSP6	100 Matrix	GOOD
Veg Community1:	PIPO/PSSP6	Daubenmire and Daubenmire 1984	G4
Existing Veg2:		0	
Veg Community3:			
Existing Veg3:		0	
Veg Community3:			

Notes: same as 116A; developed

Polygon Number 101

ParkName:

Riverside

Survey Intensity 1
 Observer PM
 Date 8/28/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PIPO, PSME
 emergent 0
 maincanopy 4
 subcanopy 3
 Shrubs Total 3
 Dominant Shrubs AMAL2, PHCA7, ARUV, PHMA5, CRDO2, SYAL, MAAQ2, TORY,
 > 1.5' tall 3
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids POBU, CAGE2, BRTE, CAREX, ELEOC, PHAR3, SPPE
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs ARCO5, LIDAD, BASA3, ACMI2, LONE4, ANPA4, LIRU4, HISCA,
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 1
 Rock Outcrop 2
 Gravel 3
 Logging 2
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 LIDAD, IRPS, CHJU, PORE5
Other Exotic Plants
 POBU, BRTE

Water: 1
Rock: 2
Talus: 2
Gravel: 3
Bare Ground: 5
Moss Lichen: 5
Litter: 82

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2-ARUV-PHMA5/POBU-ARCO5- BASA3	90		Matrix FAIR
Veg Community1: PIPO/PHMA5 Williams and others 1995			G2
Existing Veg2: SRRZ PIPO/SAEX-PHLE4-PHMA5-TORY/ARLU-EQAR-PHAR3-SPPE-CAREX-			10 linear GOOD
Veg Community3: river riparian zone			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 HERE- SPPE ALONG SHORE; 2% rock = 2% asphalt

Polygon Number 102

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: ownership issue

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes: isolated parcel

Percent	Pattern	Rank
0		OWNERS
0		
0		

Polygon Number 104

ParkName:

Riverside

Survey Intensity	1	
Observer	GW	
Date	9/8/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO	
emergent	0	
maincanopy	4	
subcanopy	3	
Shrubs Total	3	
Dominant Shrubs	SYAL, AMAL2	
> 1.5' tall	3	
< 1.5' tall	2	
Graminoids Total	3	
Dominant Graminoids	ACOC3, THIN6, ARIST, CARO5	
Graminoids Perennial	3	
Graminoids Annual	0	
Forbs Total	3	
Dominant Forbs	SYERP2, HYPE, FRVI, ACMI2, LUAN, ANMI3, ARCO5, LIDAD	
Forbs Perennial	3	
Forbs Annual	3	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	1	
Exotics Perennial	1	
Exotics Annual	0	
Water	0	
Rock Outcrop	0	
Gravel	0	
Logging	0	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	6 (HOUSES NEAR)	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD, CESTM

Other Exotic Plants

HYPE

Water:	0
Rock:	0
Talus:	0
Gravel:	0
Bare Ground:	2
Moss Lichen:	4
Litter:	94

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/SYAL	100	Matrix	GOOD
Veg Community1: PIPO/SYAL		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 105

ParkName:

Riverside

Survey Intensity	1	
Observer	GW	
Date	8/29/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO, PSME	
emergent	1	
maincanopy	4	
subcanopy	2	
Shrubs Total	1	
Dominant Shrubs	AMAL2, CESA, PHLE4	
> 1.5' tall	1	
< 1.5' tall	0	
Graminoids Total	4	
Dominant Graminoids	POBU, CARU, KOMA, PSSP6, ACOC3, BRTE	
Graminoids Perennial	4	
Graminoids Annual	1	
Forbs Total	3	
Dominant Forbs	ANPA4, LIDAD, VIVI, ACMI2, LONE4, HYPE, APAN2, BASA3	
Forbs Perennial	3	
Forbs Annual	1	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	2	
Exotics Perennial	2	
Exotics Annual	0	
Water	0	
Rock Outcrop	0	
Gravel	1	
Logging	2	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	5	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE, CHJU

Other Exotic Plants

POBU, BRTE,

Water:	0
Rock:	0
Talus:	1
Gravel:	1
Bare Ground:	3
Moss Lichen:	4
Litter:	91

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-LIDAD	100	Matrix	GOOD
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: SAME AS 116A. THESE ARE ALL THE SAME

Polygon Number 106

ParkName:

Riverside

Survey Intensity	1	
Observer	GW	
Date	8/29/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO, PSME	
emergent	1	
maincanopy	4	
subcanopy	2	
Shrubs Total	1	
Dominant Shrubs	AMAL2, CESA, PHLE4	
> 1.5' tall	1	
< 1.5' tall	0	
Graminoids Total	4	
Dominant Graminoids	POBU, CARU, KOMA, PSSP6, ACOC3, BRTE	
Graminoids Perennial	4	
Graminoids Annual	1	
Forbs Total	3	
Dominant Forbs	ANPA4, LIDAD, VIVI, ACMI2, LONE4, HYPE, APAN2, BASA3	
Forbs Perennial	3	
Forbs Annual	1	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	2	
Exotics Perennial	2	
Exotics Annual	0	
Water	0	
Rock Outcrop	0	
Gravel	1	
Logging	2	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	5	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE, CHJU

Other Exotic Plants

POBU, BRTE,

Water:	0
Rock:	0
Talus:	1
Gravel:	1
Bare Ground:	3
Moss Lichen:	4
Litter:	91

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-LIDAD	100	Matrix	GOOD
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: SAME AS 116A. THESE ARE ALL THE SAME

Polygon Number 107

ParkName:

Riverside

Survey Intensity	1	
Observer	GW	
Date	8/29/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO, PSME	
emergent	1	
maincanopy	4	
subcanopy	2	
Shrubs Total	1	
Dominant Shrubs	AMAL2, CESA, PHLE4	
> 1.5' tall	1	
< 1.5' tall	0	
Graminoids Total	4	
Dominant Graminoids	POBU, CARU, KOMA, PSSP6, ACOC3, BRTE	
Graminoids Perennial	4	
Graminoids Annual	1	
Forbs Total	3	
Dominant Forbs	ANPA4, LIDAD, VIVI, ACMI2, LONE4, HYPE, APAN2, BASA3	
Forbs Perennial	3	
Forbs Annual	1	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	2	
Exotics Perennial	2	
Exotics Annual	0	
Water	0	
Rock Outcrop	0	
Gravel	1	
Logging	2	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	5	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE, CHJU

Other Exotic Plants

POBU, BRTE,

Water:	0
Rock:	0
Talus:	1
Gravel:	1
Bare Ground:	3
Moss Lichen:	4
Litter:	91

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-LIDAD	100	Matrix	GOOD
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: SAME AS 116A. THESE ARE ALL THE SAME

Polygon Number 108

ParkName:

Riverside

Survey Intensity	1	
Observer	GW	
Date	8/29/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO, PSME	
emergent	1	
maincanopy	4	
subcanopy	2	
Shrubs Total	1	
Dominant Shrubs	AMAL2, CESA, PHLE4	
> 1.5' tall	1	
< 1.5' tall	0	
Graminoids Total	4	
Dominant Graminoids	POBU, CARU, KOMA, PSSP6, ACOC3, BRTE	
Graminoids Perennial	4	
Graminoids Annual	1	
Forbs Total	3	
Dominant Forbs	ANPA4, LIDAD, VIVI, ACMI2, LONE4, HYPE, APAN2, BASA3	
Forbs Perennial	3	
Forbs Annual	1	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	2	
Exotics Perennial	2	
Exotics Annual	0	
Water	0	
Rock Outcrop	0	
Gravel	1	
Logging	2	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	5	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE, CHJU

Other Exotic Plants

POBU, BRTE,

Water:	0
Rock:	0
Talus:	1
Gravel:	1
Bare Ground:	3
Moss Lichen:	4
Litter:	91

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-LIDAD	100	Matrix	GOOD
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: SAME AS 116A. THESE ARE ALL THE SAME

Polygon Number 109

ParkName:

Riverside

Survey Intensity	1	
Observer	PM, GW	
Date	8/28/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO	
emergent	0	
maincanopy	4	
subcanopy	3	
Shrubs Total	2	
Dominant Shrubs	AMAL2, ARUV, PHCA7	
> 1.5' tall	2	
< 1.5' tall	1	
Graminoids Total	4	
Dominant Graminoids	POBU, ACOC3, ELELE, CAGE2, KOMA, BRRA2,PSSP6, CARU,	
Graminoids Perennial	4	
Graminoids Annual	2	
Forbs Total	3	
Dominant Forbs	ANPA4, LIDAD, ANMI3, ACMI2, BASA3,PLPA2, LIDAD,ERFI2,	
Forbs Perennial	3	
Forbs Annual	1	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	3	
Exotics Perennial	3	
Exotics Annual	2	
Water	0	
Rock Outcrop	0	
Gravel	1	
Logging	1	
Fire:	0	
Stand Age	3	
Agriculture	0	
Livestock	0	
Development	2	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE

Other Exotic Plants

POBU, BRRA2

Water:	0
Rock:	0
Talus:	3
Gravel:	1
Bare Ground:	3
Moss Lichen:	15
Litter:	78

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-CAGE2-LIDAD	100	Matrix	GOOD
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4

Polygon Number 110

ParkName:

Riverside

Survey Intensity	1	
Observer	GW	
Date	8/29/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO, PSME	
emergent	1	
maincanopy	4	
subcanopy	2	
Shrubs Total	1	
Dominant Shrubs	AMAL2, CESA, PHLE4	
> 1.5' tall	1	
< 1.5' tall	0	
Graminoids Total	4	
Dominant Graminoids	POBU, CARU, KOMA, PSSP6, ACOC3, BRTE	
Graminoids Perennial	4	
Graminoids Annual	1	
Forbs Total	3	
Dominant Forbs	ANPA4, LIDAD, VIVI, ACMI2, LONE4, HYPE, APAN2, BASA3	
Forbs Perennial	3	
Forbs Annual	1	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	2	
Exotics Perennial	2	
Exotics Annual	0	
Water	0	
Rock Outcrop	0	
Gravel	1	
Logging	2	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	5	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE, CHJU

Other Exotic Plants

POBU, BRTE,

Water:	0
Rock:	0
Talus:	1
Gravel:	1
Bare Ground:	3
Moss Lichen:	4
Litter:	91

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-LIDAD	100	Matrix	GOOD
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: SAME AS 116A. THESE ARE ALL THE SAME

Polygon Number 111

ParkName:

Riverside

Survey Intensity	1	
Observer	GW	
Date	8/29/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO, PSME	
emergent	1	
maincanopy	4	
subcanopy	2	
Shrubs Total	1	
Dominant Shrubs	AMAL2, CESA, PHLE4	
> 1.5' tall	1	
< 1.5' tall	0	
Graminoids Total	4	
Dominant Graminoids	POBU, CARU, KOMA, PSSP6, ACOC3, BRTE	
Graminoids Perennial	4	
Graminoids Annual	1	
Forbs Total	3	
Dominant Forbs	ANPA4, LIDAD, VIVI, ACMI2, LONE4, HYPE, APAN2, BASA3	
Forbs Perennial	3	
Forbs Annual	1	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	2	
Exotics Perennial	2	
Exotics Annual	0	
Water	0	
Rock Outcrop	0	
Gravel	1	
Logging	2	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	5	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE, CHJU

Other Exotic Plants

POBU, BRTE,

Water:	0
Rock:	0
Talus:	1
Gravel:	1
Bare Ground:	3
Moss Lichen:	4
Litter:	91

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-LIDAD	100	Matrix	GOOD
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: SAME AS 116A. THESE ARE ALL THE SAME

Polygon Number 112

ParkName:

Riverside

Survey Intensity	1	
Observer	GW	
Date	8/29/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO, PSME	
emergent	1	
maincanopy	4	
subcanopy	2	
Shrubs Total	1	
Dominant Shrubs	AMAL2, CESA, PHLE4	
> 1.5' tall	1	
< 1.5' tall	0	
Graminoids Total	4	
Dominant Graminoids	POBU, CARU, KOMA, PSSP6, ACOC3, BRTE	
Graminoids Perennial	4	
Graminoids Annual	1	
Forbs Total	3	
Dominant Forbs	ANPA4, LIDAD, VIVI, ACMI2, LONE4, HYPE, APAN2, BASA3	
Forbs Perennial	3	
Forbs Annual	1	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	2	
Exotics Perennial	2	
Exotics Annual	0	
Water	0	
Rock Outcrop	0	
Gravel	1	
Logging	2	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	5	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE, CHJU

Other Exotic Plants

POBU, BRTE,

Water:	0
Rock:	0
Talus:	1
Gravel:	1
Bare Ground:	3
Moss Lichen:	4
Litter:	91

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-LIDAD	100	Matrix	GOOD
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: SAME AS 116A. THESE ARE ALL THE SAME

Polygon Number 113

ParkName:

Riverside

Survey Intensity	1	
Observer	GW	
Date	8/29/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO, PSME	
emergent	1	
maincanopy	4	
subcanopy	2	
Shrubs Total	1	
Dominant Shrubs	AMAL2, CESA, PHLE4	
> 1.5' tall	1	
< 1.5' tall	0	
Graminoids Total	4	
Dominant Graminoids	POBU, CARU, KOMA, PSSP6, ACOC3, BRTE	
Graminoids Perennial	4	
Graminoids Annual	1	
Forbs Total	3	
Dominant Forbs	ANPA4, LIDAD, VIVI, ACMI2, LONE4, HYPE, APAN2, BASA3	
Forbs Perennial	3	
Forbs Annual	1	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	2	
Exotics Perennial	2	
Exotics Annual	0	
Water	0	
Rock Outcrop	0	
Gravel	1	
Logging	2	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	5	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE, CHJU

Other Exotic Plants

POBU, BRTE,

Water:	0
Rock:	0
Talus:	1
Gravel:	1
Bare Ground:	3
Moss Lichen:	4
Litter:	91

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-LIDAD	100	Matrix	GOOD
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: SAME AS 116A. THESE ARE ALL THE SAME

Polygon Number 114

ParkName:

Riverside

Survey Intensity	1	
Observer	GW	
Date	8/29/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO, PSME	
emergent	1	
maincanopy	4	
subcanopy	2	
Shrubs Total	1	
Dominant Shrubs	AMAL2, CESA, PHLE4	
> 1.5' tall	1	
< 1.5' tall	0	
Graminoids Total	4	
Dominant Graminoids	POBU, CARU, KOMA, PSSP6, ACOC3, BRTE	
Graminoids Perennial	4	
Graminoids Annual	1	
Forbs Total	3	
Dominant Forbs	ANPA4, LIDAD, VIVI, ACMI2, LONE4, HYPE, APAN2, BASA3	
Forbs Perennial	3	
Forbs Annual	1	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	2	
Exotics Perennial	2	
Exotics Annual	0	
Water	0	
Rock Outcrop	0	
Gravel	1	
Logging	2	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	5	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE, CHJU

Other Exotic Plants

POBU, BRTE,

Water:	0
Rock:	0
Talus:	1
Gravel:	1
Bare Ground:	3
Moss Lichen:	4
Litter:	91

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-LIDAD	100	Matrix	GOOD
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: SAME AS 116A. THESE ARE ALL THE SAME

Polygon Number 116A

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 8/29/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 1
 maincanopy 4
 subcanopy 2
 Shrubs Total 1
 Dominant Shrubs AMAL2, CESA, PHLE4
 > 1.5' tall 1
 < 1.5' tall 0
 Graminoids Total 4
 Dominant Graminoids POBU, CARU, KOMA, PSSP6, ACOC3, BRTE
 Graminoids Perennial 4
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs ANPA4, LIDAD, VIVI, ACMI2, LONE4, HYPE, APAN2, BASA3
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 2
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 5
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE, CHJU

Other Exotic Plants

POBU, BRTE,

Water: 0
Rock: 0
Talus: 1
Gravel: 1
Bare Ground: 3
Moss Lichen: 4
Litter: 91

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-LIDAD	85	Matrix	GOOD
Veg Community1: PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg2: disturbed	15	Large patche	DEVELO
Veg Community3: developed			
Existing Veg3:	0		
Veg Community3:			

Notes: THIS IS THE UNDEVELOPED PART WHICH WAS SPLIT; possible home site with driveway?

Polygon Number 116B

ParkName:

Riverside

Survey Intensity 2
 Observer GW
 Date 8/29/2008
 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
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0
 Rock: 0
 Talus: 0
 Gravel: 0
 Bare Ground: 0
 Moss Lichen: 0
 Litter: 0

Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: resort	100	Matrix	DEVELO
Veg Community1: developed			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: THIS IS THE DEVELOPED PART SPLIT OFF OF 116A

Polygon Number 117

ParkName:

Riverside

Survey Intensity	2	
Observer	PM	
Date	8/29/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO	
emergent	0	
maincanopy	4	
subcanopy	3	
Shrubs Total	2	
Dominant Shrubs	AMAL2, SANIC5, PHCA7, ARUV	
> 1.5' tall	1	
< 1.5' tall	2	
Graminoids Total	4	
Dominant Graminoids	POBU, CAGE2, HECO26	
Graminoids Perennial	4	
Graminoids Annual	1	
Forbs Total	3	
Dominant Forbs	LIDAD, ANPA4, RUAC3, BASA3, FRVI, CESTM, ACMI2, LONE4,	
Forbs Perennial	3	
Forbs Annual	1	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	3	
Exotics Perennial	3	
Exotics Annual	2	
Water	0	
Rock Outcrop	0	
Gravel	10	
Logging	2	
Fire:	0	
Stand Age	3	
Agriculture	0	
Livestock	0	
Development	2	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD, CESTM

Other Exotic Plants

POBU, RUAC3

Water:	0
Rock:	0
Talus:	0
Gravel:	10
Bare Ground:	5
Moss Lichen:	8
Litter:	77

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/PHCA7/POBU-LIDAD-HECO26	100	Matrix	FAIR
Veg Community1: PIPO/HECO26 Bourgeron and Engelking 1994			G1
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANAPA4; MATURE STAND OPEN IN MOST PACES, HAS BEEN THINNED.

Polygon Number 119B

ParkName:

Riverside

Survey Intensity	2	
Observer	GW	
Date	9/8/2008	
Total Vegetation	5	
Trees Total	3	
Dominant Trees	PIPO	
emergent	2	
maincanopy	3	
subcanopy	2	
Shrubs Total	2	
Dominant Shrubs	SYAL, AMAL2, ERNI2, ERHE2, MAAQ2	
> 1.5' tall	1	
< 1.5' tall	2	
Graminoids Total	4	
Dominant Graminoids	PSSP6, POBU, CARO5, BRTE	
Graminoids Perennial	4	
Graminoids Annual	1	
Forbs Total	2	
Dominant Forbs	CIUN, LIDAD, COGR4, ASMI9, EPMI, PODO4, ACMI2, ARCA3,	
Forbs Perennial	2	
Forbs Annual	1	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	3	
Exotics Perennial	3	
Exotics Annual	1	
Water	0	
Rock Outcrop	0	
Gravel	0	
Logging	0	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	0	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD, CESTM, ECVU

Other Exotic Plants

POBU, HYPE

Water:	0
Rock:	0
Talus:	0
Gravel:	0
Bare Ground:	5
Moss Lichen:	1
Litter:	94

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/PSSP6	100	Matrix	GOOD
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: 119Z is the north part split off of 119A; both 119Z and 119B are shadier and less weedy than 119A; otherwise the vegetation is similar. Composite w/narrow leaves

Polygon Number 119A

ParkName:

Riverside

Survey Intensity 2
 Observer GW
 Date 9/8/2008
 Total Vegetation 5
 Trees Total 3
 Dominant Trees PIPO
 emergent 1
 maincanopy 3
 subcanopy 1
 Shrubs Total 2
 Dominant Shrubs ERNI2, AMAL2
 > 1.5' tall 1
 < 1.5' tall 2
 Graminoids Total 4
 Dominant Graminoids PSSP6, POBU, ARIST, BRTE
 Graminoids Perennial 3
 Graminoids Annual 3
 Forbs Total 3
 Dominant Forbs COGR4, LIDAD, CESTM, EPMI, PHHA, IPAG, RUAC3, HEVIV, HYPE,
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 3
 Exotics Annual 3
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 0
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6 (road, house)
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, CESTM, CHJU

Other Exotic Plants

HYPE

Water: 0
Rock: 0
Talus: 0
Gravel: 1
Bare Ground: 20
Moss Lichen: 1
Litter: 78

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-BRTE-PSSP6	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 120

ParkName:

Riverside

Survey Intensity	3	
Observer	GW	
Date	9/8/2008	
Total Vegetation	6	
Trees Total	3	
Dominant Trees	ALIN2	
emergent	0	
maincanopy	2	
subcanopy	2	
Shrubs Total	4	
Dominant Shrubs	RONU, PRUPEN, COSE16, CLLI2, CRCH	
> 1.5' tall	4	
< 1.5' tall	0	
Graminoids Total	4	
Dominant Graminoids	PHAR3, JUNCU, ELRE4, CAREX	
Graminoids Perennial	4	
Graminoids Annual	0	
Forbs Total	4	
Dominant Forbs	DIFU2, CIAR4, RUCR, LYSIM, TYLA, EPCI, URDI	
Forbs Perennial	4	
Forbs Annual	0	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	3	
Exotics Perennial	3	
Exotics Annual	0	
Water	5	
Rock Outcrop	0	
Gravel	0	
Logging	0	
Fire:	0	
Stand Age	0	
Agriculture	0	
Livestock	0	
Development	0	
Wildlife	3	
Recreation Severity	3	
Recreation Type	5	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

CIAR4, DIFU2, PHAR3

Other Exotic Plants

Water:	5
Rock:	0
Talus:	0
Gravel:	0
Bare Ground:	2
Moss Lichen:	0
Litter:	93

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ALIN2/TYLA-CIAR4-DIFU2-IRPS	100	Matrix	GOOD
Veg Community1: ALIN2/TYLA complex Undescribed			NR
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Not visited; same as 681B; photo is from across river.

Polygon Number 121

ParkName:

Riverside

Survey Intensity 3
 Observer GW
 Date 9/8/2008
 Total Vegetation 6
 Trees Total 3
 Dominant Trees ALIN2
 emergent 0
 maincanopy 2
 subcanopy 2
 Shrubs Total 4
 Dominant Shrubs RONU, PRUPEN, COSE16, CLLI2, CRCH
 > 1.5' tall 4
 < 1.5' tall 0
 Graminoids Total 4
 Dominant Graminoids PHAR3, JUNCU, ELRE4, CAREX
 Graminoids Perennial 4
 Graminoids Annual 0
 Forbs Total 4
 Dominant Forbs DIFU2, CIAR4, RUCR, LYSIM, TYLA, EPCI, URDI
 Forbs Perennial 4
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 0
 Water 5
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 0
 Agriculture 0
 Livestock 0
 Development 0
 Wildlife 3
 Recreation Severity 3
 Recreation Type 5
 Hydrology 1

Exotic Species

Noxious Exotic Plants

CIAR4, DIFU2, PHAR3

Other Exotic Plants

Water: 5
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 2
Moss Lichen: 0
Litter: 93

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ALIN2/TYLA-CIAR4-DIFU2-IRPS	100	Matrix	GOOD
Veg Community1: ALIN2/TYLA complex Undescribed			NR
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Not visited; same as 681B; photo is from across river.

Polygon Number 122

ParkName:

Riverside

Survey Intensity	1	
Observer	GW	
Date	9/8/2008	
Total Vegetation	5	
Trees Total	1	
Dominant Trees		
emergent	0	
maincanopy	0	
subcanopy	1	
Shrubs Total	0	
Dominant Shrubs		
> 1.5' tall	0	
< 1.5' tall	0	
Graminoids Total	3	
Dominant Graminoids	BRIN2, PHAR3	
Graminoids Perennial	3	
Graminoids Annual	1	
Forbs Total	4	
Dominant Forbs	DIFU2, CLLI2, CESTM, MEOF, VETH, IRPS, MYOSO, CHJU	
Forbs Perennial	4	
Forbs Annual	1	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	5	
Exotics Perennial	5	
Exotics Annual	1	
Water	10	
Rock Outcrop	0	
Gravel	5	
Logging	0	
Fire:	0	
Stand Age	0	
Agriculture	0	
Livestock	0	
Development	2	
Wildlife	3	
Recreation Severity	1	
Recreation Type	1	
Hydrology	2	

Exotic Species

Noxious Exotic Plants
CESTM, DIFU2, IRPS, PHAR3, CHJU
Other Exotic Plants
BRIN2, VETH, LASE

Water:	10
Rock:	0
Talus:	0
Gravel:	5
Bare Ground:	5
Moss Lichen:	0
Litter:	80

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: IRPS-PHAR3	50	Matrix	POOR
Veg Community1: disturbed wetland			
Existing Veg2: CESTM	50	linear	POOR
Veg Community3: ALIN2			
Existing Veg3:	0		
Veg Community3:			

Notes: All dry land is w/in the road row.

Polygon Number 123

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 9/8/2008
 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
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0
 Rock: 0
 Talus: 0
 Gravel: 0
 Bare Ground: 0
 Moss Lichen: 0
 Litter: 0

Gravel 0
 Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: developed	100	Matrix	OWNERS
Veg Community1: ownership issue			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: House; developed

Polygon Number 125A

ParkName:

Riverside

Survey Intensity	1	
Observer	PM	
Date	8/29/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO	
emergent	1	
maincanopy	4	
subcanopy	3	
Shrubs Total	1	
Dominant Shrubs	AMAL2, PHCA7	
> 1.5' tall	1	
< 1.5' tall	1	
Graminoids Total	4	
Dominant Graminoids	POBU, KOMA, BRRA2, CAGE2, BRTE, ELELE	
Graminoids Perennial	4	
Graminoids Annual	2	
Forbs Total	3	
Dominant Forbs	ANPA4, ARCO5, ACMI2, LUPIN, BASA3, LIDAD, APAN2, PLPA2,	
Forbs Perennial	3	
Forbs Annual	1	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	3	
Exotics Perennial	3	
Exotics Annual	1	
Water	0	
Rock Outcrop	0	
Gravel	0	
Logging	2	
Fire:	0	
Stand Age	2/3	
Agriculture	0	
Livestock	0	
Development	6	
Wildlife	3	
Recreation Severity	3	
Recreation Type	4	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD, ECVU, HYPE

Other Exotic Plants

POBU, BRRA2

Water:	0
Rock:	0
Talus:	0
Gravel:	0
Bare Ground:	0
Moss Lichen:	0
Litter:	0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-LIDAD-CAGE2-LUPIN	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 HERE, A FEW PATCHES, LOTS OF LIDAD, PARTS AREA THINNED, PARTS ARE UNTHINNED

Polygon Number 125B

ParkName:

Riverside

Survey Intensity 2
 Observer PM
 Date 8/29/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PIPO
 emergent 0
 maincanopy 3
 subcanopy 5
 Shrubs Total 2
 Dominant Shrubs ERHE2, AMAL2, ERN2
 > 1.5' tall 1
 < 1.5' tall 1
 Graminoids Total 4
 Dominant Graminoids POBU, THIN6, DAGL, CAGE2, ACOC3, ELELE, BRRA2, BRTE
 Graminoids Perennial 4
 Graminoids Annual 3
 Forbs Total 5
 Dominant Forbs CESTM, GAAR, CHJU, PLPA2, PODO4, LONE4
 Forbs Perennial 4
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 5
 Exotics Perennial 4
 Exotics Annual 3
 Water 0
 Rock Outcrop 0
 Gravel 3
 Logging 1
 Fire: 0
 Stand Age 1/3
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 2
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 CESTM, CHJU, ECVU, LIDAD, HYPE
Other Exotic Plants
 POBU, BRRA2, BRTE

Water: 0
Rock: 0
Talus: 0
Gravel: 3
Bare Ground: 5
Moss Lichen: 5
Litter: 87

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/CHJU-	100	Matrix	POOR
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: LOTS OF YOUNG PIPO, VERY DENSE CHJU, LOTS OF OTHER WEEDS

Polygon Number 126

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 9/8/2008
 Total Vegetation 6
 Trees Total 4
 Dominant Trees ALIN2, MAPU
 emergent 0
 maincanopy 3
 subcanopy 3
 Shrubs Total 5
 Dominant Shrubs SYAL, CRDO2, COSE16, ROSA5
 > 1.5' tall 5
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids PHAR3
 Graminoids Perennial 3
 Graminoids Annual 0
 Forbs Total 3
 Dominant Forbs CYOF, HEMA80, EQLA, SOCA6, HYPE
 Forbs Perennial 3
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 0
 Agriculture 0
 Livestock 0
 Development 2 (ROAD)
 Wildlife 2
 Recreation Severity 1
 Recreation Type 1
 Hydrology 1

Exotic Species

Noxious Exotic Plants

CYOF, PHAR3

Other Exotic Plants

MAPU, HYPE

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 10
Moss Lichen: 0
Litter: 90

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ALIN2/COSE16-SYAL	80	Matrix	GOOD
Veg Community1: ALIN2/COSE16		Crawford 2003	-G3
Existing Veg2: PHAR3	20	Large patch	POOR
Veg Community3: ALIN2/COSE16		Crawford 2003	-G3
Existing Veg3:	0		
Veg Community3:			

Notes: Shrub - wetland; Alnus rhombifolia may also be here.

Polygon Number 603

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

0

OWNERS

Veg Community1: ownership issue

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes: section of golf course

Polygon Number 604

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

0

OWNERS

Veg Community1: ownership issue

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes: section of golf course

Polygon Number 608

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/5/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PIPO
 emergent 0
 maincanopy 3
 subcanopy 0
 Shrubs Total 1
 Dominant Shrubs AMAL2
 > 1.5' tall 1
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids ARPU9, POBU, DAUN
 Graminoids Perennial 3
 Graminoids Annual 0
 Forbs Total 3
 Dominant Forbs GAAR, ERIGE2, ACMI2, PLPA2, GRNA, LONE4
 Forbs Perennial 3
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 8
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 ECVU, LIDAD, CHJU, CEDI3
Other Exotic Plants
 POBU, PLPA2

Water: 0
Rock: 0
Talus: 1
Gravel: 8
Bare Ground: 5
Moss Lichen: 0
Litter: 86

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/ARPU9-POBU-LONE4	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number

609

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 610

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/5/2008
 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
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Gravel 0
 Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Water: 0
 Rock: 0
 Talus: 0
 Gravel: 0
 Bare Ground: 0
 Moss Lichen: 0
 Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: <small>disturbed</small>	100	Matrix	POOR
Veg Community1: <small>disturbed/weedy</small>			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Trail intersection

Polygon Number

611

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes: boundary issue?

Percent Pattern Rank

0 N/A

0

0

Polygon Number 612

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/5/2008
 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 LONE4, GRNA
 Forbs Perennial 0
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 1
 Fire: 0
 Stand Age 1
 Agriculture 6
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

ECVU, CHJU

Other Exotic Plants

VETH

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 20
Moss Lichen: 0
Litter: 80

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: old field	100	Matrix	POOR
Veg Community1: former agricultural field			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: OLD AGRICULTURE FIELD DEVELOPED

Polygon Number 613

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/5/2008
 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 LONE4, GRNA
 Forbs Perennial 0
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 1
 Fire: 0
 Stand Age 1
 Agriculture 6
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

ECVU, CHJU

Other Exotic Plants

VETH

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 20
Moss Lichen: 0
Litter: 80

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: old field	100	Matrix	POOR
Veg Community1: former agricultural field			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: OLD AGRICULTURE FIELD DEVELOPED

Polygon Number 615

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/5/2008
 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 LONE4, GRNA
 Forbs Perennial 0
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 1
 Fire: 0
 Stand Age 1
 Agriculture 6
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

ECVU, CHJU

Other Exotic Plants

VETH

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 20
Moss Lichen: 0
Litter: 80

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: old field	100	Matrix	POOR
Veg Community1: former agricultural field			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: OLD AGRICULTURE FIELD DEVELOPED

Polygon Number

618

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 622

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 8/27/2008
 Total Vegetation 4
 Trees Total 1
 Dominant Trees PIPO
 emergent 0
 maincanopy 1
 subcanopy 1
 Shrubs Total 2
 Dominant Shrubs SAEX, ERNA10, ERNI2
 > 1.5' tall 2
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids POBU, SPCR, BRTE, BRRA2
 Graminoids Perennial 2
 Graminoids Annual 2
 Forbs Total 4
 Dominant Forbs CESTM, ARLU, PHHA, EPMI, SAKA, PLPA2
 Forbs Perennial 4
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 4
 Exotics Annual 3
 Water 0
 Rock Outcrop 0
 Gravel 2
 Logging 0
 Fire: 0
 Stand Age 0
 Agriculture 0
 Livestock 0
 Development 6 (fence)
 Wildlife 3
 Recreation Severity 1
 Recreation Type 1
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 CESTM, EUES, CHJU, LIDAD
Other Exotic Plants
 POBU, BRRA2, BRTE, SAKA

Water: 0
Rock: 0
Talus: 0
Gravel: 2
Bare Ground: 60
Moss Lichen: 0
Litter: 48

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: CESTM-LIDAD-SIVU-BRTE	50	Matrix	POOR
Veg Community1: disturbed/weedy			
Existing Veg2: PIPO/ERNA10/CESTM-SPCR-PLPA2	50	Large patch	POOR
Veg Community3: disturbed/weedy			
Existing Veg3:	0		
Veg Community3:			

Notes: ARROYO W HEAVY ORV

Polygon Number 623

ParkName:

Riverside

Survey Intensity 1
 Observer PM
 Date 8/27/2008
 Total Vegetation 3
 Trees Total 2
 Dominant Trees PIPO, exotics
 emergent 0
 maincanopy 2
 subcanopy 1
 Shrubs Total 0
 Dominant Shrubs
 > 1.5' tall 0
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids POPR, POBU
 Graminoids Perennial 2
 Graminoids Annual 2
 Forbs Total 2
 Dominant Forbs CESO3, CESTM, LIDAD, CHJU, BASC5
 Forbs Perennial 2
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 3
 Water 0
 Rock Outcrop 0
 Gravel 55
 Logging 0
 Fire: 0
 Stand Age 0
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 0
 Recreation Severity 1
 Recreation Type 1
 Hydrology 2

Exotic Species

Noxious Exotic Plants
 CESO3, CESTM, LIDAD, CHJU, BASC5
Other Exotic Plants

Water: 0
Rock: 0
Talus: 0
Gravel: 55
Bare Ground: 30
Moss Lichen: 0
Litter: 15

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: disturbed/developed	50	Matrix	POOR
Veg Community1: disturbed/weedy			
Existing Veg2: developed	45	Large patch	DEVELO
Veg Community3: developed			
Existing Veg3: PIPO/PHCA7/LONE4-ACOC3-POBU	5		FAIR
Veg Community3: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4

Notes: DIRT AND ASPHALT PARKING AND SURROUNDINGS, DEVELOPED AND DISTURBED SITE; GRAVEL INCLUDES ASPHALT.

Polygon Number

624

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes: mostly road

Percent Pattern Rank

0 N/A

0

0

Polygon Number

625

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes: part of road

Percent Pattern Rank

0 N/A

0

0

Polygon Number

628

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes: mostly road

Percent Pattern Rank

0 N/A

0

0

Polygon Number 633

ParkName:

Riverside

Survey Intensity 1
 Observer DH, JR, RO, AM
 Date 7/17/2008
 Total Vegetation 4
 Trees Total 1
 Dominant Trees PIPO
 emergent 0
 maincanopy 1
 subcanopy 0
 Shrubs Total 2
 Dominant Shrubs ERCO12, AMAL2, PHLE4,
 > 1.5' tall 1
 < 1.5' tall 2
 Graminoids Total 4
 Dominant Graminoids PSSP6, POBU, BRTE
 Graminoids Perennial 4
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LUPIN, LIDAD, LOMAT
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 20
 Logging 1
 Fire: 14 YEARS AGO
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 LIDAD, ECVU, CHJU,
Other Exotic Plants
 POBU, BRTE, TRDU, VETH

Water: 0
Rock: 0
Talus: 1
Gravel: 20
Bare Ground: 10
Moss Lichen: 5
Litter: 64

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ERCO12/PSSP6-BASA3-LUPIN	100	Matrix	FAIR
Veg Community1: PSSP6-BASA3			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: probably historically south-facing grassland; below/at saddle poly has shrub encroachment; nighthawk and nest w/eggs on northern high point

Polygon Number 636

ParkName:

Riverside

Survey Intensity 1
 Observer JR, RO, DH
 Date 7/14/2008
 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
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0
 Rock: 0
 Talus: 0
 Gravel: 0
 Bare Ground: 0
 Moss Lichen: 0
 Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: <small>disturbed/developed</small>	100	Matrix	POOR
Veg Community1: <small>disturbed/weedy</small>			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number**638A****ParkName:****Riverside**

Survey Intensity	1
Observer	RO, AM
Date	8/6/2008
Total Vegetation	6
Trees Total	4
Dominant Trees	PSME, PIPO, AGCLD4, ACNE2
emergent	1
maincanopy	4
subcanopy	3
Shrubs Total	4
Dominant Shrubs	HODI, PHMA5, MAAQ2, AMAL2, SYAL, ROWO, COSE16, PHLE4,
> 1.5' tall	4
< 1.5' tall	3
Graminoids Total	3
Dominant Graminoids	PSSP6, POBU, POPR, ELGL
Graminoids Perennial	3
Graminoids Annual	1
Forbs Total	3
Dominant Forbs	BASA3, MAST4, APAN2, ARLU
Forbs Perennial	3
Forbs Annual	0
Ferns Total	0
Ferns Evergreen	0
Ferns Deciduous	0
ExoticsTotal	4
Exotics Perennial	4
Exotics Annual	0
Water	3
Rock Outcrop	0
Gravel	5
Logging	1
Fire:	0
Stand Age	5
Agriculture	0
Livestock	0
Development	3
Wildlife	3
Recreation Severity	3
Recreation Type	3
Hydrology	1

Exotic Species**Noxious Exotic Plants**

LIDAD, CEDI3, TAVU, CHJU, CIIN

Other Exotic Plants

POBU

Water:	3
Rock:	0
Talus:	5
Gravel:	5
Bare Ground:	2
Moss Lichen:	2
Litter:	83

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PSME/PHMA5-HODI-MAAQ2/BASA3-PSSP6-POBU	70		Matrix GOOD
Veg Community1: PSME/PHMA5 Williams and others 1995			G5
Existing Veg2: CEDI3-TAVU (Big patch of weeds)	30	Large patch	POOR
Veg Community3: disturbed/weedy			
Existing Veg3:	0		
Veg Community3:			

Notes: Large flat on north end of poly is very weedy, over pipeline and above.

Polygon Number

638B

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/6/2008
 Total Vegetation 5
 Trees Total 3
 Dominant Trees PIPO
 emergent 0
 maincanopy 3
 subcanopy 0
 Shrubs Total 4
 Dominant Shrubs AMAL2, ARUV, PRVI, MAAQ2, PHLE4, ERCO12
 > 1.5' tall 4
 < 1.5' tall 1
 Graminoids Total 4
 Dominant Graminoids BRIN2
 Graminoids Perennial 4
 Graminoids Annual 0
 Forbs Total 2
 Dominant Forbs ARLU, LYCHN
 Forbs Perennial 2
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 2
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 0
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 LIDAD, TAVU, CEDI3, HYPE
Other Exotic Plants

Water: 0
Rock: 0
Talus: 0
Gravel: 2
Bare Ground: 5
Moss Lichen: 0
Litter: 93

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2-MAAQ2-ERCO12/BRIN2-ARLU	100	Matrix	POOR
Veg Community1: PSME/PHMA5 Williams and others 1995			G5
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number **646** **ParkName:**

Survey Intensity 1 **Riverside**

Observer RO, JR, DH, AM
Date 7/16/2008

Total Vegetation 5
Trees Total 3
Dominant Trees PIPO, SALIX, POBAT, ALVIS, ACNE2
emergent 0
maincanopy 3
subcanopy 1
Shrubs Total 2
Dominant Shrubs AMAL2, CRDO2, MAAQ2
> 1.5' tall 2
< 1.5' tall 1
Graminoids Total 5
Dominant Graminoids PHAR3, BRIN2, LECI4
Graminoids Perennial 5
Graminoids Annual 1
Forbs Total 2
Dominant Forbs ASOF, URDI, IRPS, SODU, MAST4
Forbs Perennial 2
Forbs Annual 1
Ferns Total 0
Ferns Evergreen 0
Ferns Deciduous 0
ExoticsTotal 4
Exotics Perennial 4
Exotics Annual 2
Water 5
Rock Outcrop 0

Exotic Species

Noxious Exotic Plants
CHJU, TAVU, CIAR4, PHAR3
Other Exotic Plants
RUCR, BRIN2

Gravel 2
Logging 1
Fire: -
Stand Age 2-3
Agriculture 0
Livestock 0
Development 5
Wildlife 3
Recreation Severity 3
Recreation Type 0
Hydrology 1

Water: 5
Rock: 0
Talus: 7
Gravel: 2
Bare Ground: 10
Moss Lichen: 0
Litter: 76

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: SALIX-ALVIS-POBAT/PHAR3-BRIN2	100	Matrix	POOR
Veg Community1: disturbed wetland			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: EXPERIENCES PERIODIC INUNDATION; PHAR3 DENSE AND TALL

Polygon Number 651

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent Pattern

0

Rank

DEVELO

Veg Community1: developed

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes: road

Polygon Number 652 ParkName:

Riverside

Survey Intensity 1
 Observer AM, RO
 Date 8/4/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees ACNE2, SALA2, PIPO, ACSA2, ALIN2
 emergent 3
 maincanopy 3
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs PHLE4, CRDO2, RIAU, PHAR3, SPDO, ROWO, SASC
 > 1.5' tall 2
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids PHAR3, BRIN2, IRPS, CIAR4
 Graminoids Perennial 3
 Graminoids Annual 0
 Forbs Total 2
 Dominant Forbs SODU, POOL, APCA
 Forbs Perennial 2
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 0
 Water 1
 Rock Outcrop 0
 Gravel 2
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 1
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 IRPS, CIAR4, PHAR3
Other Exotic Plants

Water: 1
Rock: 0
Talus: 0
Gravel: 2
Bare Ground: 20
Moss Lichen: 0
Litter: 77

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ALIN2-SALA2/CRDO2-PHLE4-SASC/PHAR3-	BRIN2	60	Matrix POOR
Veg Community1: ALIN2			
Existing Veg2: SASC-SPDO/PHAR3	40	Large patch	POOR
Veg Community3: disturbed wetland			
Existing Veg3:	0		
Veg Community3:			

Notes: ALIN2 - not sure, not this, ned to be keyed

Polygon Number 656

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 9/8/2008
 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
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0
 Rock: 0
 Talus: 0
 Gravel: 0
 Bare Ground: 0
 Moss Lichen: 0
 Litter: 0

Gravel 0
 Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: developed	100	Matrix	DEVELO
Veg Community1: developed			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: House; developed

Polygon Number 659

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 8/29/2008
 Total Vegetation 6
 Trees Total 2
 Dominant Trees PIPO
 emergent 2
 maincanopy 2
 subcanopy 1
 Shrubs Total 2
 Dominant Shrubs AMAL2
 > 1.5' tall 2
 < 1.5' tall 1
 Graminoids Total 4
 Dominant Graminoids ACOC3, BRIN2, CARO5, KOMA, PSSP6, BRRA2, POBU, POPR
 Graminoids Perennial 4
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs TRDU, LIRU4, ACMI2, DELI3, PHLOX
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 3
 Agriculture 0
 Livestock 0
 Development 5
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, PORE5, HYPE

Other Exotic Plants

TRDU

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 0
Moss Lichen: 0
Litter: 100

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/LIDAD-ACOC3	90	Matrix	FAIR
Veg Community1: PIPO/FEID		Bourgeron and Engelking 1994	G4
Existing Veg2: developed	10	Large patch	OWNERS
Veg Community3: ownership issue			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number

667

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 670

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ownership issue

Percent Pattern

100 Matrix

Rank

DEVELO

Veg Community1: developed

Existing Veg2: 0

Veg Community3:

Existing Veg3: 0

Veg Community3:

Notes: buildings, tennis court, ball fields

Polygon Number 671

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 9/8/2008
 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
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Gravel 0
 Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Water: 0
 Rock: 0
 Talus: 0
 Gravel: 0
 Bare Ground: 0
 Moss Lichen: 0
 Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: developed	100	Matrix	DEVELO
Veg Community1: developed			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: House; developed

Polygon Number 672

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 9/8/2008
 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
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Gravel 0
 Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 0
Moss Lichen: 0
Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ns	0		N/A
Veg Community1: N/A			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: CAN'T GET TO IT

Polygon Number 675

ParkName:

Riverside

Survey Intensity 1
 Observer PM
 Date 8/28/2008
 Total Vegetation 4
 Trees Total 1
 Dominant Trees PIPO
 emergent 0
 maincanopy 1
 subcanopy 2
 Shrubs Total 2
 Dominant Shrubs ERHE2, ERNI2
 > 1.5' tall 0
 < 1.5' tall 2
 Graminoids Total 4
 Dominant Graminoids ARIST, POBU, ACOC3, BRRA2, ELELE, HECO26
 Graminoids Perennial 4
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs LONE4, GAAR, CHJU, LIDAD
 Forbs Perennial 3
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 3
 Logging 1
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 2
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

CHJU, LIDAD

Other Exotic Plants

POBU, BRRA2

Water: 0
Rock: 0
Talus: 0
Gravel: 3
Bare Ground: 10
Moss Lichen: 20
Litter: 67

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1:	PIPO/ERHE2-ERNI2/ARIST-ACOC3-POBU-HECO26	100	Matrix GOOD
Veg Community1:	PIPO/HECO26 Bourgeron and Engelking 1994		G1
Existing Veg2:		0	
Veg Community3:			
Existing Veg3:		0	
Veg Community3:			
Notes:			

Polygon Number 676

ParkName:

Riverside

Survey Intensity	2	
Observer	GW	
Date	8/29/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO	
emergent	0	
maincanopy	4	
subcanopy	2	
Shrubs Total	1	
Dominant Shrubs	ERHE2, ERNI2	
> 1.5' tall	0	
< 1.5' tall	1	
Graminoids Total	4	
Dominant Graminoids	BRIN2, ELELE, BRTE, POBU, HECO26	
Graminoids Perennial	4	
Graminoids Annual	1	
Forbs Total	3	
Dominant Forbs	BEIN2, HYPE, CHGL13, ECVU, GAYOP, VIVI, LONE4, PADI, VETH,	
Forbs Perennial	1	
Forbs Annual	1	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	4	
Exotics Perennial	4	
Exotics Annual	1	
Water	0	
Rock Outcrop	0	
Gravel	0	
Logging	0	
Fire:	0	
Stand Age	1	
Agriculture	0	
Livestock	0	
Development	2	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

BEIN2, CHJU, CESTM, ECVU, LIDAD

Other Exotic Plants

BRTE, BRIN2, HYPE, VETH

Water:	0
Rock:	0
Talus:	0
Gravel:	0
Bare Ground:	5
Moss Lichen:	5
Litter:	90

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-LIDAD-HECO26	100	Matrix	FAIR
Veg Community1: PIPO/HECO26		Bourgeron and Engelking 1994	G1
Existing Veg2: ERHE2/FEID-ACOC3-BRRA2	50	Large patch	FAIR
Veg Community3: ERHE2/FEID			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number

677B

ParkName:

Riverside

Survey Intensity	1	
Observer	PM	
Date	8/28/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO, PSME	
emergent	1	
maincanopy	4	
subcanopy	3	
Shrubs Total	2	
Dominant Shrubs	PHCA7, AMAL2, ERNI2, ERCO12, MAAQ2, ARUV	
> 1.5' tall	1	
< 1.5' tall	2	
Graminoids Total	4	
Dominant Graminoids	POBU, ARPU9, ACOC3, BRTE, BRRA2, HECO26	
Graminoids Perennial	4	
Graminoids Annual	2	
Forbs Total	3	
Dominant Forbs	BASA3, ACMI2, LIDAD, CESTM, TAVU, RUAC3, GAAR, LONE4,	
Forbs Perennial	3	
Forbs Annual	2	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	4	
Exotics Perennial	4	
Exotics Annual	2	
Water	0	
Rock Outcrop	1	
Gravel	10	
Logging	1	
Fire:	0	
Stand Age	2/1	
Agriculture	0	
Livestock	0	
Development	6	
Wildlife	3	
Recreation Severity	2	
Recreation Type	4	
Hydrology	1	

Exotic Species

Noxious Exotic Plants
CESTM, LIDAD, TAVU, PORE5

Other Exotic Plants

Water:	0
Rock:	1
Talus:	2
Gravel:	10
Bare Ground:	15
Moss Lichen:	5
Litter:	67

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-ARPU9-ACOC3-HECO26	100	Matrix	FAIR
Veg Community1: PIPO/HECO26 Bourgeron and Engelking 1994			G1
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: GROUND COVERED WITH LARGER OF WOOD CHIPS IN MANY PLACES

Polygon Number 677A ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 9/8/2008
 Total Vegetation 5
 Trees Total 3
 Dominant Trees PIPO, PSME, ACPL
 emergent 2
 maincanopy 3
 subcanopy 1
 Shrubs Total 3
 Dominant Shrubs AMAL2, PHLE4, SAEX, CRDO2, ERNI2
 > 1.5' tall 3
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids BRIN2, THIN6, POBU, BRTE, PSSP6
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 1
 Dominant Forbs LIDAD, ACMI2, BRGR, SYMPH4
 Forbs Perennial 1
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 1
 Rock Outcrop 5
 Gravel 5
 Logging 0
 Fire: 0
 Stand Age 3
 Agriculture 0
 Livestock 0
 Development 6 (BRIDGE)
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 2

Exotic Species

Noxious Exotic Plants

LIDAD

Other Exotic Plants

BRTE

Water: 1
Rock: 5
Talus: 20
Gravel: 5
Bare Ground: 10
Moss Lichen: 0
Litter: 59

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/PSSP6	60	Matrix	GOOD
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2: SAEX	30	Large patch	GOOD
Veg Community3: SAEX		Bourgeron and Engelking 1994	G5
Existing Veg3: gabions (road bank blocks)	10	Small patch	FAIR
Veg Community3: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4

Notes:

Polygon Number 678

ParkName:

Riverside

Survey Intensity 2
 Observer PM
 Date 8/28/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PIPO
 emergent 0
 maincanopy 3
 subcanopy 1
 Shrubs Total 3
 Dominant Shrubs CRDO2
 > 1.5' tall 1
 < 1.5' tall 1
 Graminoids Total 4
 Dominant Graminoids POBU, ACOC3, BRRA2, BRTE
 Graminoids Perennial 4
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs PODO4, VICIA, EQHY, CHJU, LIDAD
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 4
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 15
 Logging 2
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 2
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants

CHJU, LIDAD

Other Exotic Plants

POBU, BRRA2, BRTE

Water: 0
Rock: 0
Talus: 0
Gravel: 15
Bare Ground: 25
Moss Lichen: 1
Litter: 59

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-ACOC3-CHJU	100	Matrix	POOR
Veg Community1: PIPO/HECO26		Bourgeron and Engelking 1994	G1
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 679

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 9/8/2008
 Total Vegetation 6
 Trees Total 2
 Dominant Trees ALIN2
 emergent 0
 maincanopy 1
 subcanopy 2
 Shrubs Total 4
 Dominant Shrubs CRDO2, SYAL, SALIX
 > 1.5' tall 4
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids CAST5, AGROS2, GLST
 Graminoids Perennial 3
 Graminoids Annual 0
 Forbs Total 4
 Dominant Forbs GATR2, LYUN, SODU, SOCA6, TYLA, MYOSO, GEMA4, SALA2,
 Forbs Perennial 4
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 0
 Water 20
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 0
 Agriculture 0
 Livestock 0
 Development 2
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

IRPS, CIAR4, PHAR3

Other Exotic Plants

SODU, DIFU2

Water: 20
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 0
Moss Lichen: 15
Litter: 65

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ALIN2/COSE16	80	Matrix	GOOD
Veg Community1: ALIN2/COSE16			-G3
Existing Veg2: IRPS-TYLA	20	Small patch	FAIR
Veg Community3: disturbed wetland			
Existing Veg3:	0		
Veg Community3:			

Notes: Narrow strip between highway and river. Impatiens was the same as Peter's.

Polygon Number

680B

ParkName:

Riverside

Survey Intensity 1
Observer PM
Date 8/28/2008
Total Vegetation 5
Trees Total 3
Dominant Trees ULMUS, SALA2, PIPO
emergent 2
maincanopy 2
subcanopy 2
Shrubs Total 4
Dominant Shrubs TORY, CRDO2, SAEX, ALIN2, PHLE4, ROWO, MAAQ2, AMAL2
> 1.5' tall 4
< 1.5' tall 2
Graminoids Total 3
Dominant Graminoids PHAR3, CAREX, ELYMU, SPPE
Graminoids Perennial 3
Graminoids Annual 0
Forbs Total 3
Dominant Forbs ARLU, aster1, EQAR, ARCTI, aster2, CHDO APOCY, EUES, IRPS,
Forbs Perennial 3
Forbs Annual 3
Ferns Total 0
Ferns Evergreen 0
Ferns Deciduous 0
ExoticsTotal 3
Exotics Perennial 3
Exotics Annual 0
Water 2
Rock Outcrop 2

Gravel 15

Logging 1
Fire: 0
Stand Age 1/3
Agriculture 0
Livestock 0
Development 3
Wildlife 3
Recreation Severity 2
Recreation Type 3
Hydrology 2

Exotic Species

Noxious Exotic Plants
 EUES, COAR4, IRPS, ARCTI
Other Exotic Plants
 ASOF

Water: 2

Rock: 2
Talus: 10
Gravel: 15
Bare Ground: 60
Moss Lichen: 1
Litter: 60

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: SRRZ	100	Matrix	FAIR
Veg Community1: river riparian zone			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: SPPE HERE. THIS IS A GOOD DESCRIPT OF IT.

Polygon Number **680A** **ParkName:**

Riverside

Survey Intensity 2
 Observer PM
 Date 8/28/2008

Total Vegetation 6
Trees Total 2
Dominant Trees SALUL
 emergent 0
 maincanopy 2
 subcanopy 0
Shrubs Total 4
Dominant Shrubs ALIN2, SALIX, COSE16, GLGR, PARTH3
 > 1.5' tall 4
 < 1.5' tall 1
Graminoids Total 2
Dominant Graminoids CAAM10, PHAR3, GLGR
Graminoids Perennial 2
Graminoids Annual 0
Forbs Total 5
Dominant Forbs IMCA, SODU, TYLA, CIAR4, EPILO, LEMI3, MYLA
Forbs Perennial 5
Forbs Annual 0
Ferns Total 0
Ferns Evergreen 0
Ferns Deciduous 0
ExoticsTotal 3
Exotics Perennial 3
Exotics Annual 0
Water 1
Rock Outcrop 0

Gravel 0

Logging 0
 Fire: 0
Stand Age 1
Agriculture 0
Livestock 0
Development 0
Wildlife 3
Recreation Severity 3
Recreation Type 3
Hydrology 2

Exotic Species

Noxious Exotic Plants
 CIAR4, DIFU2, PHAR3, TAVU, BEIN2,
Other Exotic Plants

Water: 1
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 2
Moss Lichen: 0
Litter: 98

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: SALIX/ALIN2/TYLA	60	Matrix	EXCELLE
Veg Community1: SALIX/ALIN2/TYLA complex			
Existing Veg2: ALIN2/IMCA	40	Large patch	GOOD
Veg Community3: ALIN2			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 681Z

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 8/29/2008
 Total Vegetation 6
 Trees Total 2
 Dominant Trees PIPO
 emergent 0
 maincanopy 0
 subcanopy 2
 Shrubs Total 0
 Dominant Shrubs
 > 1.5' tall 0
 < 1.5' tall 0
 Graminoids Total 5
 Dominant Graminoids ELRE4, POPA2, VEDU
 Graminoids Perennial 5
 Graminoids Annual 1
 Forbs Total 2
 Dominant Forbs VETH, BEIN2, EQLA, RUAC3, PODO4, ANOF
 Forbs Perennial 2
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 5
 Exotics Perennial 5
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 0
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 BEIN2, CESTM, ANOF, CHJU, VEDU
Other Exotic Plants
 ELRE4

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 3
Moss Lichen: 0
Litter: 97

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ELRE4	75	Matrix	POOR
Veg Community1: former agricultural field			
Existing Veg2: parking lot	25		DEVELO
Veg Community3: developed			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 681B ParkName:

Riverside

Survey Intensity 2
 Observer GW
 Date 8/29/2008
 Total Vegetation 6
 Trees Total 3
 Dominant Trees ALIN2
 emergent 0
 maincanopy 2
 subcanopy 2
 Shrubs Total 4
 Dominant Shrubs RONU, PRUPEN, COSE16, CLLI2, CRCH
 > 1.5' tall 4
 < 1.5' tall 0
 Graminoids Total 4
 Dominant Graminoids PHAR3, JUNCU, ELRE4, CAREX
 Graminoids Perennial 4
 Graminoids Annual 0
 Forbs Total 4
 Dominant Forbs DIFU2, CIAR4, RUCR, LYSIM, TYLA, EPCI, , URDI,
 Forbs Perennial 4
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 0
 Water 5
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 0
 Agriculture 0
 Livestock 0
 Development 0
 Wildlife 3
 Recreation Severity 3
 Recreation Type 5
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 CIAR4, DIFU2, PHAR3
Other Exotic Plants

Water: 5
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 2
Moss Lichen: 0
Litter: 93

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ALIN2/TYLA-CIAR4-DIFU2-IRPS	100	Matrix	GOOD
Veg Community1: ALIN2/TYLA complex Undescribed			NR
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: WEEDS; WETLANDS; WATERFOWL

Polygon Number 681A

ParkName:

Survey Intensity 1
Observer GW
Date 8/29/2008
Total Vegetation 6
Trees Total 1
Dominant Trees ALIN2
emergent 0
maincanopy 1
subcanopy 0
Shrubs Total 3
Dominant Shrubs COSE16
> 1.5' tall 3
< 1.5' tall 0
Graminoids Total 4
Dominant Graminoids AGGI2, SCMI2, ELRE4
Graminoids Perennial 4
Graminoids Annual 0
Forbs Total 4
Dominant Forbs TYLA, CIAR4, DIFU2, SOCA6, EQLA
Forbs Perennial 4
Forbs Annual 4
Ferns Total 0
Ferns Evergreen 0
Ferns Deciduous 0
ExoticsTotal 4
Exotics Perennial 4
Exotics Annual 0
Water 1
Rock Outcrop 0

Gravel 0

Logging 0
Fire: 0
Stand Age 0
Agriculture 0
Livestock 0
Development 3
Wildlife 3
Recreation Severity 3
Recreation Type 3
Hydrology 1

Riverside

Exotic Species

Noxious Exotic Plants
 BEIN2, CIAR4, DIFU2, PHAR3, ANAZ,
Other Exotic Plants
 VETH, AGGI2

Water: 1
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 0
Moss Lichen: 0
Litter: 99

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: TYLA-DIFU2-ELRE4	100	Matrix	POOR
Veg Community1: TYLA Crawford 2003			G5
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: PIPO ARE PLANTED ON BOUNDARY OF PA'S

Polygon Number 687

ParkName:

Riverside

Survey Intensity	1	
Observer	GW	
Date	9/8/2008	
Total Vegetation	3	
Trees Total	3	
Dominant Trees	PIPO	
emergent	0	
maincanopy	3	
subcanopy	2	
Shrubs Total	0	
Dominant Shrubs		
> 1.5' tall	0	
< 1.5' tall	0	
Graminoids Total	3	
Dominant Graminoids	CARO5, PADI, BRRA2, POBU, BRIN2	
Graminoids Perennial	3	
Graminoids Annual	1	
Forbs Total	2	
Dominant Forbs	CEER5, COLLO, MADIA, LUPIN, ECVU, EPMI, CHJU	
Forbs Perennial	1	
Forbs Annual	2	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	3	
Exotics Perennial	3	
Exotics Annual	1	
Water	0	
Rock Outcrop	50	
Gravel	10	
Logging	0	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	6 (SUBURBAN)	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants
CESTM, LIDAD, ECVU, CHJU
Other Exotic Plants
POBU

Water:	0
Rock:	50
Talus:	0
Gravel:	10
Bare Ground:	10
Moss Lichen:	10
Litter:	20

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: POBU-CESTM	100	Matrix	DEVELO
Veg Community1: developed			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: This is only the road ROW. Pavement counted as rock. Road access to housing development?

Polygon Number 692

ParkName:

Riverside

Survey Intensity	2	
Observer	GW	
Date	9/8/2008	
Total Vegetation	5	
Trees Total	5	
Dominant Trees	PIPO, PSME	
emergent	2	
maincanopy	4	
subcanopy	4	
Shrubs Total	1	
Dominant Shrubs	SPBE2, VICIA, SYAL, ARUV	
> 1.5' tall	1	
< 1.5' tall	1	
Graminoids Total	2	
Dominant Graminoids	PANIC, KOMA, POBU, CARO5, BRRA2	
Graminoids Perennial	2	
Graminoids Annual	1	
Forbs Total	3	
Dominant Forbs	ANPA4, ECVU, CESTM, FRVI, HYPE, LIDAD, TRDU, CEER5,	
Forbs Perennial	3	
Forbs Annual	1	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	2	
Exotics Perennial	2	
Exotics Annual	1	
Water	0	
Rock Outcrop	0	
Gravel	0	
Logging	0	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	0	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

ECVU, CESTM, LIDAD

Other Exotic Plants

HYPE, TRDU

Water:	0
Rock:	0
Talus:	1
Gravel:	0
Bare Ground:	1
Moss Lichen:	15
Litter:	83

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/SPBE2-PANIC-ANPA4	100	Matrix	GOOD
Veg Community1: PSME/SPBE2			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 695

ParkName:

Riverside

Survey Intensity 2
 Observer PM
 Date 8/30/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PIPO
 emergent 1
 maincanopy 3
 subcanopy 1
 Shrubs Total 2
 Dominant Shrubs ERNI2, ERHE2
 > 1.5' tall 0
 < 1.5' tall 2
 Graminoids Total 4
 Dominant Graminoids PSSP6, POBU, BRRA2, BRTE, ARIST
 Graminoids Perennial 4
 Graminoids Annual 3
 Forbs Total 3
 Dominant Forbs LONE4, LIDAD, ACMI2, ECVU, APAN2
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 4
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 2
 Logging 2
 Fire: 0
 Stand Age 2/3
 Agriculture 0
 Livestock 0
 Development 0
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

ECVU, LIDAD

Other Exotic Plants

Water: 0
Rock: 0
Talus: 0
Gravel: 2
Bare Ground: 30
Moss Lichen: 2
Litter: 76

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/ERNI2/PSSP6-ECVU-LIDAD	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 696

ParkName:

Survey Intensity 2
 Observer GW
 Date 9/8/2008

Riverside

Total Vegetation 5
 Trees Total 5
 Dominant Trees PSME, PIPO
 emergent 2
 maincanopy 5
 subcanopy 3
 Shrubs Total 4
 Dominant Shrubs PHMA5, PHLE4, HODI, SYAL
 > 1.5' tall 4
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids POBU, CARO5, THIN6, FEOC
 Graminoids Perennial 3
 Graminoids Annual 0
 Forbs Total 3
 Dominant Forbs LIDAD, COPA3, COLLO
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 0
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, CESTM

Other Exotic Plants

POBU, THIN6

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 0
Moss Lichen: 20
Litter: 80

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PSME/PHMA5	100	Matrix	GOOD
Veg Community1: PSME/PHMA5	Williams and others 1995		G5
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number

697A

ParkName:

Riverside

Survey Intensity 2
 Observer PM
 Date 8/30/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO, PSME, ROPS
 emergent 2
 maincanopy 4
 subcanopy 2
 Shrubs Total 4
 Dominant Shrubs AMAL2, SYAL, PHLE4, PHMA5, ACGLD4, SPBE2, ARUV, PRVI,
 > 1.5' tall 4
 < 1.5' tall 3
 Graminoids Total 3
 Dominant Graminoids POBU, CAGE2, CARU, BRTE, BRR2
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs BASA3, LUPIN, HISCA, ANPA4, ASFA, CHANA2, LONE4, HECY2,
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 2
 Gravel 3
 Logging 2 (patches of
 Fire: PATCHES 20+ YR,
 Stand Age 3
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, CESTM

Other Exotic Plants

Water: 0
Rock: 2
Talus: 1
Gravel: 3
Bare Ground: 5
Moss Lichen: 10
Litter: 79

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1:	PIPO-PSME/PHMA5-SPBE2-SYAL/CARU- CAGE2	100	Matrix GOOD
Veg Community1:	PSME/PHMA5 Williams and others 1995		G5
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			
Notes:			

Polygon Number 697C ParkName:

Riverside

Survey Intensity 2
 Observer PM
 Date 8/30/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 1
 maincanopy 4
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs AMAL2, ARUV, ERNI2, TORY
 > 1.5' tall 1
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids POBU, BRTE, PSSP6, CAGE2, APAN2
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs LUPIN, BASA3, LIDAD
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 2
 Water 0
 Rock Outcrop 1
 Gravel 3
 Logging 2
 Fire: 0
 Stand Age 3/2
 Agriculture 0
 Livestock 0
 Development 4
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 LIDAD, CESTM, PORE5
Other Exotic Plants
 POBU, BRTE

Water: 0
Rock: 1
Talus: 1
Gravel: 3
Bare Ground: 25
Moss Lichen: 2
Litter: 68

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/PSSP6-BASA3-POBU-LIDAD-	BRTE	100	Matrix FAIR
Veg Community1: PSME/PHMA5 Williams and others 1995			G5
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: SELECTIVELY LOGGED, OLD SKID ROADS

Polygon Number**697B****ParkName:****Riverside**

Survey Intensity	2	
Observer	PM	
Date	8/30/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO, PSME	
emergent	1	
maincanopy	4	
subcanopy	3	
Shrubs Total	3	
Dominant Shrubs	AMAL2, SPBE2, PHMA5, SYAL, ERNI2, TORY, PHCA7	
> 1.5' tall	3	
< 1.5' tall	2	
Graminoids Total	3	
Dominant Graminoids	PSSP6, CAGE2, BRTE, POBU, BRRA2, CARU	
Graminoids Perennial	3	
Graminoids Annual	3	
Forbs Total	3	
Dominant Forbs	BASA3, LIDAD, COLI2, SOCA6, ACMI2, LIRU4, ASSP, APAN2,	
Forbs Perennial	3	
Forbs Annual	2	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	3	Exotic Species
Exotics Perennial	3	Noxious Exotic Plants
Exotics Annual	2	CESTM, LIDAD, HYPE
Water	0	Other Exotic Plants
Rock Outcrop	5	POBU, BRTE
Gravel	2	Water: 0
Logging	2	Rock: 5
Fire:	0	Talus: 2
Stand Age	3	Gravel: 2
Agriculture	0	Bare Ground: 10
Livestock	0	Moss Lichen: 4
Development	4	Litter: 77
Wildlife	3	
Recreation Severity	3	
Recreation Type	4	
Hydrology	1	

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1:	PIPO/SYAL-SPBE2/PSSP6-POBU-CAGE2-BASA3-LIDAD-CARU	60	Matrix FAIR
Veg Community1:	PSME/PHMA5	Williams and others 1995	G5
Existing Veg2:	PIPO/POBU-PSSP6-BASA3-APAN2-LIDAD	40 Large patch	GOOD
Veg Community3:	PIPO/PSSP6	Daubenmire and Daubenmire 1984	G4
Existing Veg3:		0	
Veg Community3:			

Notes: UPPER, STEEPER AREA, DRY PIPO FOREST, ROCK OUTCROPS BETTER CONDITION, LESS LOGGING, SOME OLD TREES

Polygon Number 732

ParkName:

Riverside

Survey Intensity 1
 Observer PM
 Date 8/29/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PIPO, exotic trees
 emergent 0
 maincanopy 3
 subcanopy 2
 Shrubs Total 2
 Dominant Shrubs AMAL2, ornamental shrubs
 > 1.5' tall 2
 < 1.5' tall 0
 Graminoids Total 4
 Dominant Graminoids LIDAD, LUPIN, ACMI2, ECVU, LONE4
 Graminoids Perennial 3
 Graminoids Annual 0
 Forbs Total 0
 Dominant Forbs
 Forbs Perennial 0
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 20
 Logging 0
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 1
 Recreation Type 4
 Hydrology 2

Exotic Species

Noxious Exotic Plants
 LIDAD, ECVU, CESTM
Other Exotic Plants
 POBU, POPR

Water: 0
Rock: 0
Talus: 0
Gravel: 20
Bare Ground: 20
Moss Lichen: 0
Litter: 60

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: developed	85	Matrix	DEVELO
Veg Community1: developed			
Existing Veg2: PIPO/POBU-ECVU-LONE4	15	Small patch	POOR
Veg Community3: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg3:	0		
Veg Community3:			

Notes: developed area with house, lawn, road; PART OF LITTER IS 10% HOUSES

Polygon Number **740**

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns 0 Pattern Rank

Veg Community1: N/A N/A

Existing Veg2: 0

Veg Community3:

Existing Veg3: 0

Veg Community3:

Notes: adjacent to water treatment plant

Polygon Number 741

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH, AM
 Date 7/14/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PSME, PIPO
 emergent 1
 maincanopy 3
 subcanopy 1
 Shrubs Total 4
 Dominant Shrubs PHMA5, PRVI, SAEX, MAAQ2, PHLE4, ACGLD4, AMAL2
 > 1.5' tall 4
 < 1.5' tall 2
 Graminoids Total 2
 Dominant Graminoids FEID, POBU
 Graminoids Perennial 2
 Graminoids Annual 1
 Forbs Total 2
 Dominant Forbs MAST4, CESTM, BASA3, LIRU4, ERCO12
 Forbs Perennial 2
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 1
 Rock Outcrop 1
 Gravel 10
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, CESTM, ECVU, CHJU

Other Exotic Plants

POBU, HYPE, TRDU, VETH, BRTE

Water: 1
Rock: 1
Talus: 10
Gravel: 10
Bare Ground: 3
Moss Lichen: 2
Litter: 73

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PSME/PHMA5-PRVI-MAAQ2/MAST4-FEID	90	Matrix	GOOD
Veg Community1: PSME/PHMA5 Williams and others 1995			G5
Existing Veg2: SAEX (talus)	10		GOOD
Veg Community3: talus			
Existing Veg3:	0		
Veg Community3:			

Notes: STEEP NORTHWESTERN FACING HILLSIDE; WEEDS ALONG ROAD; NOXIOUS WEEDS BELOW ROAD

Polygon Number 745

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 7/15/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PIPO, ULMUS, ACER
 emergent 1
 maincanopy 3
 subcanopy 2
 Shrubs Total 3
 Dominant Shrubs SAEX, ERNI2, APAN2, ERCO12, AMAL2, TODI, MAAQ2
 > 1.5' tall 3
 < 1.5' tall 3
 Graminoids Total 2
 Dominant Graminoids PSSP6, POBU, ARPU9, HOJU, BRTE
 Graminoids Perennial 2
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LUAR3, LYCHN
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 2
 Water 5
 Rock Outcrop 3
 Gravel 30
 Logging 1
 Fire: YES
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 2
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 2

Exotic Species

Noxious Exotic Plants
 LIDAD, CESTM, CHJU, HYPE, IRPS
Other Exotic Plants
 POBU, TAVU

Water: 5
Rock: 3
Talus: 15
Gravel: 30
Bare Ground: 7
Moss Lichen: 1
Litter: 39

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/ERNI2-ERCO12-APAN2/ PSSP6-POBU- BASA3	80		Matrix FAIR
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2: ULMUS-ACER/SAEX-TODI/LYCHN-IRPS	20	Large patch	FAIR
Veg Community3: disturbed wetland			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 746

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH, AM
 Date 7/14/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 2
 maincanopy 3
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs MAAQ2, AMAL2, RULE
 > 1.5' tall 2
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids POBU, PSSP6, FEID
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LUAR3, LONE4, LUSE4, ERCO12, APAN2
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 3
 Water 0
 Rock Outcrop 0
 Gravel 3
 Logging 1
 Fire: RECENT BURN (14
 Stand Age 5
 Agriculture 0
 Livestock 0
 Development 2
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

ECVU, LIDAD, CHJU, HYPE, CESTM,

Other Exotic Plants

POBU, TRDU, TROF, CECY2

Water: 0
Rock: 0
Talus: 1
Gravel: 3
Bare Ground: 15
Moss Lichen: 2
Litter: 79

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/BASA3-LUAR3-PSSP6	60	Matrix	FAIR
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2: PIPO/LONE4-POBU (most of weeds)	30	Small patch	POOR
Veg Community3: disturbed/weedy			
Existing Veg3: BASA3-FEID-ERCO12	10	Small patch	FAIR
Veg Community3: FEID			

Notes: Pipe along edge; erosion work; all burned. Lots of regrowth - all of 782 and much of 746 are young trees.

Polygon Number 748

ParkName:

Riverside

Survey Intensity 2
 Observer JR, DH
 Date 7/15/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PIPO
 emergent 2
 maincanopy 5
 subcanopy 3
 Shrubs Total 1
 Dominant Shrubs AMAL2
 > 1.5' tall 1
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids FEID, HOJU, POBU
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LONE4, LUSE4, ACMI2
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 0
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6 (road, houses)
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

CHJU, CEDI3

Other Exotic Plants

POBU

Water: 0
Rock: 0
Talus: 0
Gravel: 1
Bare Ground: 2
Moss Lichen: 1
Litter: 96

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/FEID-POBU-BASA3	95	Matrix	GOOD
Veg Community1: PIPO/FEID	Bourgeron and Engelking 1994		G4
Existing Veg2: weeds/disturbed	5	Large patch	POOR
Veg Community3: disturbed/weedy			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 749

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 7/15/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PIPO
 emergent 0
 maincanopy 2
 subcanopy 3
 Shrubs Total 1
 Dominant Shrubs AMAL2
 > 1.5' tall 0
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids FEID, POBU, HOJU, BRAR5
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LONE4, APAN2, LUSE4, ACMI2
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 4
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 5
 Logging 1
 Fire: recent fire-14
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 CHJU, CESTM, HYPE, PORE5, CEDI3,
Other Exotic Plants
 TRDU, TAOF, POBU, BRTE

Water: 0
Rock: 0
Talus: 1
Gravel: 5
Bare Ground: 13
Moss Lichen: 1
Litter: 80

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/FEID-POBU-BASA3	100	Matrix	POOR
Veg Community1: disturbed/weedy			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found here; large majority of 749 and 778 young PIPO with weeds; entire polygon was burned in 1994, there are small patches of residual mature PIPO forest

Polygon Number 752

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 7/15/2008
 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
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Gravel 0
 Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Water: 0
 Rock: 0
 Talus: 0
 Gravel: 0
 Bare Ground: 0
 Moss Lichen: 0
 Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: <small>developed</small>	100	Matrix	DEVELO
Veg Community1: <small>developed</small>			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Spokane Rifle Club (shooting range is leased by SP)

Polygon Number 753

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 7/15/2008
 Total Vegetation 0
 Trees Total 0
 Dominant Trees PIPO
 emergent 0
 maincanopy 0
 subcanopy 0
 Shrubs Total 0
 Dominant Shrubs ERNI2, AMAL2
 > 1.5' tall 0
 < 1.5' tall 0
 Graminoids Total 0
 Dominant Graminoids FEID, POBU, BRTE, ARPU9
 Graminoids Perennial 0
 Graminoids Annual 0
 Forbs Total 0
 Dominant Forbs CHJU, LIDAD, GAAR, BASA3
 Forbs Perennial 0
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 5
 Logging 1
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Exotic Species

Noxious Exotic Plants
 LIDAD, CHJU, CESTM, HYPE
Other Exotic Plants
 POBU, BRTE

Water: 0
Rock: 0
Talus: 1
Gravel: 5
Bare Ground: 10
Moss Lichen: 1
Litter: 83

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: <small>disturbed</small>	70	Matrix	POOR
Veg Community1: <small>disturbed/weedy</small>			
Existing Veg2: <small>PIPO/BASA3-FEID-POBU</small>	30	Large patch	GOOD
Veg Community3: <small>PIPO/FEID</small>		<small>Bourgeron and Engelking 1994</small>	G4
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 754

ParkName:

Survey Intensity 1
Observer JR, DH
Date 7/15/2008

Riverside

Total Vegetation 5
Trees Total 5
Dominant Trees PIPO
emergent 1
maincanopy 5
subcanopy 1
Shrubs Total 1
Dominant Shrubs AMAL2
> 1.5' tall 1
< 1.5' tall 0
Graminoids Total 2
Dominant Graminoids FEID, POBU
Graminoids Perennial 2
Graminoids Annual 1
Forbs Total 3
Dominant Forbs BASA3, LUSE4, LONE4
Forbs Perennial 3
Forbs Annual 1
Ferns Total 0
Ferns Evergreen 0
Ferns Deciduous 0
ExoticsTotal 2
Exotics Perennial 1
Exotics Annual 2
Water 0
Rock Outcrop 0

Gravel 2

Logging 1
Fire:
Stand Age 2
Agriculture 0
Livestock 0
Development 6 (roads, trails,
Wildlife 3
Recreation Severity 3
Recreation Type 3
Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, CESTM

Other Exotic Plants

POBU

Water: 0
Rock: 0
Talus: 0
Gravel: 2
Bare Ground: 1
Moss Lichen: 10
Litter: 87

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/BASA3-FEID-POBU	100	Matrix	GOOD
Veg Community1: PIPO/FEID Bourgeron and Engelking 1994			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: very homogeneous forest with very open forest floor (not much undergrowth or shrubs)

Polygon Number 759

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 7/16/2008
 Total Vegetation 4
 Trees Total 2
 Dominant Trees PIPO
 emergent 0
 maincanopy 2
 subcanopy 0
 Shrubs Total 1
 Dominant Shrubs AMAL2
 > 1.5' tall 1
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids POBU, BRAR5, ACOC3
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 2
 Dominant Forbs BASA3, LONE4
 Forbs Perennial 2
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 2
 Rock Outcrop 0
 Gravel 5
 Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Exotic Species

Noxious Exotic Plants
 LIDAD, HYPE
Other Exotic Plants
 POBU, TRDU, BRAR5

Water: 2
Rock: 0
Talus: 2
Gravel: 5
Bare Ground: 50
Moss Lichen: 1
Litter: 40

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: <small>disturbed</small>	100	Matrix	POOR
Veg Community1: <small>disturbed/weedy</small>			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: OPEN, DISTURBED, HIGHLY USED AREA

Polygon Number 760

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 7/16/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PIPO
 emergent 2
 maincanopy 5
 subcanopy 3
 Shrubs Total 1
 Dominant Shrubs AMAL2
 > 1.5' tall 1
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids POBU, ACOC3, HOJU, BRAR5, FEID
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LUAR3, LONE4
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 2
 Rock Outcrop 0
 Gravel 3
 Logging 1
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 6 (roads, power)
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 LIDAD, HYPE
Other Exotic Plants
 POBU, TRDU, BRAR5, TAOF

Water: 2
Rock: 0
Talus: 1
Gravel: 3
Bare Ground: 3
Moss Lichen: 7
Litter: 84

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/BASA3-LUAR3-POBU	98	Matrix	GOOD
Veg Community1: PIPO/FEID		Bourgeron and Engelking 1994	G4
Existing Veg2: SRRZ	2	6	GOOD
Veg Community3: river riparian zone			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found throughout

Polygon Number 761

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 7/16/2008
 Total Vegetation 0
 Trees Total 0
 Dominant Trees
 emergent 0
 maincanopy 0
 subcanopy 0
 Shrubs Total 0
 Dominant Shrubs ERNI2
 > 1.5' tall
 < 1.5' tall 0
 Graminoids Total 0
 Dominant Graminoids POBU, HOJU, BRTE
 Graminoids Perennial 0
 Graminoids Annual 0
 Forbs Total 0
 Dominant Forbs EQHY, BASA3
 Forbs Perennial 0
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Exotic Species

Noxious Exotic Plants
 CHJU, LIDAD, HYPE
Other Exotic Plants
 POBU, BRTE

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 0
Moss Lichen: 0
Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: <small>disturbed</small>	100	Matrix	DEVELO
Veg Community1: <small>developed</small>			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: HIGHLY DISTURBED

Polygon Number 762

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 7/16/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO
 emergent 2
 maincanopy 4
 subcanopy 2
 Shrubs Total 1
 Dominant Shrubs AMAL2
 > 1.5' tall 1
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids POBU, ACOC3, HOJU, BRAR5, FEID
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LUAR3, LONE4
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 3
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6 (roads, power)
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 LIDAD, HYPE
Other Exotic Plants
 POBU, TRDU, BRAR5, TAOF

Water: 0
Rock: 0
Talus: 1
Gravel: 3
Bare Ground: 3
Moss Lichen: 7
Litter: 86

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/BASA3-LUAR3-POBU	100	Matrix	GOOD
Veg Community1: PIPO/FEID		Bourgeron and Engelking 1994	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found throughout

Polygon Number 765

ParkName:

Riverside

Survey Intensity 2
 Observer GW
 Date 9/8/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PSME, PIPO
 emergent 0
 maincanopy 5
 subcanopy 2
 Shrubs Total 3
 Dominant Shrubs SYAL, AMAL2, CESA
 > 1.5' tall 3
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids POBU, CARO5, BRIN2, PSSP6
 Graminoids Perennial 3
 Graminoids Annual 0
 Forbs Total 2
 Dominant Forbs ACMI2, COLLO, BASA3, MIGR, LIDAD, PHCA7, ANPA4, LUPIN,
 Forbs Perennial 1
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 2 (ONLY IN PART)
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 0
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, CHJU

Other Exotic Plants

POBU, HYPE

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 0
Moss Lichen: 5
Litter: 95

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PSME/SYAL/POBU	100	Matrix	GOOD
Veg Community1: PSME/SYAL		Daubenmire and Daubenmire 1984	G5
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 768

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 9/8/2008
 Total Vegetation 5
 Trees Total 3
 Dominant Trees PIPO
 emergent 0
 maincanopy 0
 subcanopy 3
 Shrubs Total 1
 Dominant Shrubs CRDO2, HODI, ERHE2
 > 1.5' tall 1
 < 1.5' tall 1
 Graminoids Total 4
 Dominant Graminoids AGCR, POBU, BRRA2, BRIN2
 Graminoids Perennial 4
 Graminoids Annual 3
 Forbs Total 4
 Dominant Forbs MADIA, HYPE, CHJU, ANAZ, LIDAD, VIVI, VETH, CEER5, LONE4,
 Forbs Perennial 4
 Forbs Annual 3
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 5
 Exotics Perennial 3
 Exotics Annual 4
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 0
 Fire: 0
 Stand Age 0
 Agriculture 0
 Livestock 0
 Development 0
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 ANAZ, ECVU, LIDAD, CESTM
Other Exotic Plants
 HYPE, VETH

Water: 0
Rock: 0
Talus: 0
Gravel: 1
Bare Ground: 14
Moss Lichen: 10
Litter: 75

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: CESTM-ECVU-AGCR	100	Matrix	POOR
Veg Community1: former agricultural field			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			
Notes: OLD FIELD			

Polygon Number 769

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 9/8/2008
 Total Vegetation 5
 Trees Total 3
 Dominant Trees PSME
 emergent 0
 maincanopy 0
 subcanopy 3
 Shrubs Total 1
 Dominant Shrubs HODI, AMAL2, PHLE4
 > 1.5' tall 1
 < 1.5' tall 0
 Graminoids Total 2
 Dominant Graminoids BRRA2, ELRE4, ACOC3
 Graminoids Perennial 2
 Graminoids Annual 0
 Forbs Total 5
 Dominant Forbs ECVU, LIDAD, CESTM, LONE4, ANAZ, HYPE, COLLO, BEIN2
 Forbs Perennial 5
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 5
 Exotics Perennial 5
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 0
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 ECVU, CESTM, LIDAD, BEIN2, ANAZ
Other Exotic Plants
 HYPE

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 10
Moss Lichen: 5
Litter: 85

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/CESTM-ECVU	100	Matrix	POOR
Veg Community1: former agricultural field			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Old field with tree invasion

Polygon Number 770

ParkName:

Riverside

Survey Intensity 2
 Observer GW
 Date 8/29/2008
 Total Vegetation 5
 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 4
 Dominant Graminoids POBU, ELRE4, ACOC3, BRTE
 Graminoids Perennial 4
 Graminoids Annual 3
 Forbs Total 3
 Dominant Forbs SIAL2, BEIN2, ERCI6, PODO4, CHJU
 Forbs Perennial 3
 Forbs Annual 3
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 3
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 0
 Agriculture 4
 Livestock 0
 Development 2
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

CHJU, BEIN2

Other Exotic Plants

POBU, BRTE, ERCI6

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 0
Moss Lichen: 0
Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: old field	100	Matrix	POOR
Veg Community1: PIPO/FEID		Bourgeron and Engelking 1994	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number**772****ParkName:****Riverside**

Survey Intensity 1
 Observer GW
 Date
 Total Vegetation 6
 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 6
 Dominant Graminoids AGGI2, POPR, ELRE4
 Graminoids Perennial 6
 Graminoids Annual 0
 Forbs Total 4
 Dominant Forbs DIFU2, ANAZ, CESTM, SIAL2, NECA2, CIAR4
 Forbs Perennial 4
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 6
 Exotics Perennial 6
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 0
 Agriculture 0
 Livestock 0
 Development 2
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species**Noxious Exotic Plants**

DIFU2, ANAZ, CESTM, CIAR4

Other Exotic Plants

POPR, AGGI2, VETH, NECA2, ELRE4

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 0
Moss Lichen: 0
Litter: 100

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: AGGI2-POPR-DIFU2	100	Matrix	POOR
Veg Community1: former agricultural field			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Grassy field with high water table; not a single native species

Polygon Number 773

ParkName:

Riverside

Survey Intensity	1	
Observer	PM	
Date	8/28/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO, PSME	
emergent	1	
maincanopy	4	
subcanopy	3	
Shrubs Total	2	
Dominant Shrubs	PHCA7, AMAL2, ERNI2, ERCO12, MAAQ2, ARUV	
> 1.5' tall	1	
< 1.5' tall	2	
Graminoids Total	4	
Dominant Graminoids	POBU, ARIST, ACOC3, BRTE, BRRA2, HECO26	
Graminoids Perennial	4	
Graminoids Annual	2	
Forbs Total	3	
Dominant Forbs	BASA3, ACMI2, LIDAD, CESTM, TAVU, RUAC3, GAAR, LONE4,	
Forbs Perennial	3	
Forbs Annual	2	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	4	
Exotics Perennial	4	
Exotics Annual	2	
Water	0	
Rock Outcrop	1	
Gravel	10	
Logging	1	
Fire:	0	
Stand Age	2/1	
Agriculture	0	
Livestock	0	
Development	6	
Wildlife	3	
Recreation Severity	2	
Recreation Type	4	
Hydrology	1	

Exotic Species

Noxious Exotic Plants
CESTM, LIDAD, TAVU, PORE5
Other Exotic Plants

Water:	0
Rock:	1
Talus:	2
Gravel:	10
Bare Ground:	15
Moss Lichen:	5
Litter:	67

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-HECO26-ACOC3	100	Matrix	FAIR
Veg Community1: PIPO/HECO26 Bourgeron and Engelking 1994			G1
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: GROUND COVERED WITH LARGER OF WOOD CHIPS IN MANY PLACES

Polygon Number 777

ParkName:

Survey Intensity 2
Observer JR, DH
Date 7/15/2008

Riverside

Total Vegetation 4
Trees Total 4
Dominant Trees PIPO
emergent 1
maincanopy 4
subcanopy 3
Shrubs Total 1
Dominant Shrubs AMAL2
> 1.5' tall 1
< 1.5' tall 1
Graminoids Total 3
Dominant Graminoids FEID, POBU, BRAR5
Graminoids Perennial 3
Graminoids Annual 1
Forbs Total 2
Dominant Forbs BASA3, LONE4, LUSE4, ACMI2
Forbs Perennial 2
Forbs Annual 1
Ferns Total 0
Ferns Evergreen 0
Ferns Deciduous 0
ExoticsTotal 3
Exotics Perennial 3
Exotics Annual 1
Water 0
Rock Outcrop 0

Gravel 3

Logging 0
Fire: yes, 14 yrs ago
Stand Age 5
Agriculture 0
Livestock 0
Development 2
Wildlife 3
Recreation Severity 3
Recreation Type 3
Hydrology 1

Exotic Species

Noxious Exotic Plants
 CHJU, CESTM, CEDI3
Other Exotic Plants
 POBU, TRDU

Water: 0
Rock: 0
Talus: 0
Gravel: 3
Bare Ground: 6
Moss Lichen: 1
Litter: 90

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/FEID-POBU-BASA3	100	Matrix	FAIR
Veg Community1: PIPO/FEID		Bourgeron and Engelking 1994	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 778

ParkName:

Riverside

Survey Intensity 2
 Observer JR, DH
 Date 7/15/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PIPO
 emergent 0
 maincanopy 1
 subcanopy 3
 Shrubs Total 1
 Dominant Shrubs AMAL2
 > 1.5' tall 0
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids FEID, POBU, HOJU, BRAR5
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 2
 Dominant Forbs BASA3, LONE4, LUSE4, ACMI2
 Forbs Perennial 2
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 4
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 3
 Logging 0
 Fire: yes, 14 yrs ago
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 2
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 CHJU, CESTM, CEDI3
Other Exotic Plants
 POBU, TRDU

Water: 0
Rock: 0
Talus: 0
Gravel: 3
Bare Ground: 7
Moss Lichen: 1
Litter: 89

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/FEID-POBU-BASA3	100	Matrix	POOR
Veg Community1: PIPO/FEID		Bourgeron and Engelking 1994	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Mostly young PIPO and weeds.

Polygon Number 782

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH, AM
 Date 7/14/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 0
 maincanopy 3
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs MAAQ2, AMAL2, RULE
 > 1.5' tall 2
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids POBU, PSSP6, FEID
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LUAR3, LONE4, LUSE4, ERCO12, APAN2
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 3
 Water 0
 Rock Outcrop 0
 Gravel 3
 Logging 1
 Fire: RECENT BURN (14)
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 2
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

ECVU, LIDAD, CHJU, HYPE, CESTM,

Other Exotic Plants

POBU, TRDU, TROF, CECY2

Water: 0
Rock: 0
Talus: 1
Gravel: 3
Bare Ground: 5
Moss Lichen: 2
Litter: 89

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/LONE4-POBU	95	Matrix	FAIR
Veg Community1: PSME/FEID			
Existing Veg2: BASA3-FEID-ERCO12	5	3	FAIR
Veg Community3: FEID			

Existing Veg3:

Veg Community3:

Notes: Mostly regrowth of young trees

Polygon Number 783

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/5/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PIPO
 emergent 0
 maincanopy 2
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs ERUM, ERN12
 > 1.5' tall 1
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids POBU, HECO26
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs CHJU, ACMI2, APAN2, LUSE4, LONE4
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 5
 Logging 1
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 CHJU, ECVU, LIDAD, HYPE
Other Exotic Plants
 POBU, TAOF, TRDU, SOCA6

Water: 0
Rock: 0
Talus: 0
Gravel: 5
Bare Ground: 5
Moss Lichen: 5
Litter: 85

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-CHJU	100	Matrix	POOR
Veg Community1: PIPO/HECO26		Bourgeron and Engelking 1994	G1
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 784

ParkName:

Riverside

Survey Intensity 1
Observer RO, AM
Date 8/7/2008
Total Vegetation 4
Trees Total 4
Dominant Trees PIPO
emergent 1
maincanopy 4
subcanopy 3
Shrubs Total 3
Dominant Shrubs AMAL2, ERNI2, ROWO, PRVI, ERCO12
> 1.5' tall 3
< 1.5' tall 2
Graminoids Total 3
Dominant Graminoids POBU, ELRE4, BRIN2, ELGL, PSSP6
Graminoids Perennial 3
Graminoids Annual 0
Forbs Total 3
Dominant Forbs BASA3, LONE4, ACMI2, LIRU4, GAAR, LOMAT
Forbs Perennial 3
Forbs Annual 0
Ferns Total 0
Ferns Evergreen 0
Ferns Deciduous 0
ExoticsTotal 3
Exotics Perennial 3
Exotics Annual 0
Water 0
Rock Outcrop 0
Gravel 5
Logging 1
Fire: 0
Stand Age 5
Agriculture 0
Livestock 0
Development 3
Wildlife 3
Recreation Severity 3
Recreation Type 3
Hydrology 1

Exotic Species

Noxious Exotic Plants
CHJU, LIDAD, CEDI3, HYPE, ECVU,
Other Exotic Plants
POBU, ELRE4, BRIN2

Water: 0
Rock: 0
Talus: 1
Gravel: 5
Bare Ground: 2
Moss Lichen: 1
Litter: 91

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2-ERNI2-ERCO12/BASA3-POBU	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: trail through polgon makes rank fair and not good

Polygon Number 785

ParkName:

Riverside

Survey Intensity	1	
Observer	JR, DH	
Date	8/5/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees	PIPO, PSME	
emergent	1	
maincanopy	4	
subcanopy	3	
Shrubs Total	4	
Dominant Shrubs	PHMA5, AMAL2, ARUV	
> 1.5' tall	4	
< 1.5' tall	2	
Graminoids Total	3	
Dominant Graminoids	PSSP6, POBU, CARU, BRTE, unk	
Graminoids Perennial	3	
Graminoids Annual	2	
Forbs Total	3	
Dominant Forbs	BASA3, GAAR, ACMI2, HISCA, LUAR3, MAST4	
Forbs Perennial	3	
Forbs Annual	2	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	2	
Exotics Perennial	2	
Exotics Annual	1	
Water	0	
Rock Outcrop	0	
Gravel	2	
Logging	1	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	3	
Wildlife	3	
Recreation Severity	3	
Recreation Type	4	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD

Other Exotic Plants

POBU

Water:	0
Rock:	0
Talus:	1
Gravel:	2
Bare Ground:	2
Moss Lichen:	10
Litter:	85

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PSME/PHMA5-AMAL2/CARU-BASA3-PSSP6	70	Matrix	GOOD
Veg Community1: PSME/PHMA5 Williams and others 1995			G5
Existing Veg2: PSME-PIPO/ARUV-LUAR3	30	Large patch	GOOD
Veg Community3: PSME/PSSP6 Williams and others 1995			G4
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found here

Polygon Number 786

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/5/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PIPO, PSME
 emergent 2
 maincanopy 4
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs ARUV, ERUM
 > 1.5' tall 1
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids POBU, unk, FEID
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LONE4, LUAR3, ACMI2
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 3
 Logging 1
 Fire: 0
 Stand Age 6
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE

Other Exotic Plants

POBU, TRDU

Water: 0
Rock: 0
Talus: 7
Gravel: 3
Bare Ground: 2
Moss Lichen: 3
Litter: 85

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/ARUV/BASA3-LONE4-POBU	100	Matrix	GOOD
Veg Community1: PSME/FEID			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 here; young PSME patches; polygon adjacent to military reserve

Polygon Number 787

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/6/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 2
 maincanopy 4
 subcanopy 2
 Shrubs Total 2
 Dominant Shrubs AMAL2
 > 1.5' tall 1
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids CARU, POBU, PSSP6, HECO26
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LONE4, LUSE4, ARCO5, APAN2
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD

Other Exotic Plants

POBU

Water: 0
Rock: 0
Talus: 1
Gravel: 1
Bare Ground: 1
Moss Lichen: 3
Litter: 94

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/BASA3-LUSE4-CARU	100	Matrix	GOOD
Veg Community1: PSME/CARU		Bourgeron and Engelking 1994; Williams and others 1995	G5
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found here

Polygon Number 788

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/6/2008
 Total Vegetation 5
 Trees Total 2
 Dominant Trees PIPO
 emergent 0
 maincanopy 1
 subcanopy 2
 Shrubs Total 2
 Dominant Shrubs ERHE2
 > 1.5' tall 0
 < 1.5' tall 2
 Graminoids Total 5
 Dominant Graminoids BRTE, ELRE4, HECO26, PSSP6
 Graminoids Perennial 4
 Graminoids Annual 3
 Forbs Total 3
 Dominant Forbs LUSE4, VIVI, HISCA, CHJU, ACMI2, LIRU4
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 4
 Exotics Annual 3
 Water 0
 Rock Outcrop 0
 Gravel 5
 Logging 1
 Fire: 0
 Stand Age 1
 Agriculture 6 OLD FIELD
 Livestock 0
 Development 6 FENCE
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

CHJU, LIDAD, HYPE

Other Exotic Plants

BRTE, POBU, ELRE4, TRDU, TAOF

Water: 0
Rock: 0
Talus: 1
Gravel: 5
Bare Ground: 1
Moss Lichen: 5
Litter: 88

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ERHE2/BRTE-VIVI	100	Matrix	POOR
Veg Community1: disturbed/weedy			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 789

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/6/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 1
 maincanopy 4
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs AMAL2, ARUV, MAAQ2, ERCO12, ERNI2
 > 1.5' tall 2
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids PSSP6, POBU
 Graminoids Perennial 3
 Graminoids Annual 0
 Forbs Total 3
 Dominant Forbs BASA3, ASPUP7, LUAR3, LONE4, ACMI2
 Forbs Perennial 3
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 0
 Water 2
 Rock Outcrop 0
 Gravel 10
 Logging 1
 Fire: 0
 Stand Age 5
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, CEDI3, CHJU

Other Exotic Plants

POBU

Water: 2
Rock: 0
Talus: 5
Gravel: 10
Bare Ground: 5
Moss Lichen: 1
Litter: 77

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/ARUV/PSSP6-BASA3-POBU	96	Matrix	GOOD
Veg Community1: PSME/PSSP6 Williams and others 1995			G4
Existing Veg2: SRRZ	4	Large patch	GOOD
Veg Community3: river riparian zone			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found here

Polygon Number 793A

ParkName:

Riverside

Survey Intensity 1
 Observer RO, JR, AM, DH
 Date 7/17/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PIPO
 emergent 0
 maincanopy 2
 subcanopy 3
 Shrubs Total 1
 Dominant Shrubs AMAL2
 > 1.5' tall 0
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids FEID, POBU, HOJU, BRAR5
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LONE4, APAN2, LUSE4, ACMI2
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 1
 Rock Outcrop 0
 Gravel 10
 Logging 1
 Fire: 14 years ago
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 CHJU, CESTM, HYPE, PORE5, CEDI3,
Other Exotic Plants
 TRDU, TAOF, POBU

Water: 1
Rock: 0
Talus: 1
Gravel: 10
Bare Ground: 15
Moss Lichen: 1
Litter: 72

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/FEID-POBU-BASA3	99	Matrix	POOR
Veg Community1: disturbed/weedy			
Existing Veg2: SRRZ	1	linear	FAIR
Veg Community3: river riparian zone			
Existing Veg3:	0		
Veg Community3:			

Notes: Powerline through polygon; this entire polygon was burned in 1994; there are small patches of residual mature PIPO forest of about 1-3 acres and scattered individual

Polygon Number 793B

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 7/17/2008
 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
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Gravel 0
 Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 0
Moss Lichen: 0
Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: developed	100	Matrix	DEVELO
Veg Community1: developed			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: electrical generation station; private ownership?

Polygon Number 794A

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/6/2008
 Total Vegetation 4
 Trees Total 2
 Dominant Trees PIPO
 emergent 0
 maincanopy 2
 subcanopy 1
 Shrubs Total 0
 Dominant Shrubs
 > 1.5' tall 0
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids POBU, HECO26, BRIN2, ELELE, BRAR5
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 4
 Dominant Forbs POGL9, HYPE, CESTM, VETH, ACMI2, EQHY
 Forbs Perennial 4
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 4
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 15
 Logging 1
 Fire: YES
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 HYPE, CHJU, ECVU, CESTM, CEDI3
Other Exotic Plants
 VETH, TAOF, POBU, BRIN2, TRDU, VIVI

Water: 0
Rock: 0
Talus: 1
Gravel: 15
Bare Ground: 8
Moss Lichen: 2
Litter: 74

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: old field	70	Matrix	POOR
Veg Community1: former agricultural field			
Existing Veg2: PIPO/ARUV/POBU-LONE4-ACMI2	30	Small patch	FAIR
Veg Community3: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg3:	0		
Veg Community3:			

Notes: WEIRD PARALLEL MOUNDS; RAIL BEAMS; TRASH; EX VEG 2 AREA BURNT

Polygon Number 794B

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/6/2008
 Total Vegetation 4
 Trees Total 2
 Dominant Trees PIPO
 emergent 0
 maincanopy 2
 subcanopy 1
 Shrubs Total 0
 Dominant Shrubs
 > 1.5' tall 0
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids POBU, HECO26, BRIN2, ELELE, BRAR5
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 4
 Dominant Forbs POGL9, HYPE, CESTM, VETH, ACMI2, EQHY
 Forbs Perennial 4
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 4
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 15
 Logging 1
 Fire: YES
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 HYPE, CHJU, ECVU, CESTM, CEDI3
Other Exotic Plants
 VETH, TAOF, POBU, BRIN2, TRDU, VIVI

Water: 0
Rock: 0
Talus: 1
Gravel: 15
Bare Ground: 8
Moss Lichen: 2
Litter: 74

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: old field	70	Matrix	POOR
Veg Community1: former agricultural field			
Existing Veg2: PIPO/ARUV/POBU-LONE4-ACMI2	30	Small patch	FAIR
Veg Community3: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg3:	0		
Veg Community3:			

Notes: WEIRD PARALLEL MOUNDS; RAIL BEAMS; TRASH; EX VEG 2 AREA BURNT

Polygon Number 799

ParkName:

Riverside

Survey Intensity 1
 Observer RO, JR, DH, AM
 Date 7/17/2008
 Total Vegetation 4
 Trees Total 2
 Dominant Trees PIPO, PSME
 emergent 0
 maincanopy 2
 subcanopy 2
 Shrubs Total 4
 Dominant Shrubs PHMA5, HODI, CEVE, AMAL2, ACGLD4, SANIC5, PHLE4, PUTR2
 > 1.5' tall 3
 < 1.5' tall 3
 Graminoids Total 3
 Dominant Graminoids FEID, POBU, PSSP6, CARU, KOMA, BRTE
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs APAN2, BASA3, LONE4, GAAR
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 Exotics Total 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 0
 Rock Outcrop 30
 Gravel 7
 Logging 1
 Fire: 14 YEARS AGO
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

ECVU, LIDAD, CHJU, CEDI3, HYPE,

Other Exotic Plants

POBU, TRDU, VETH, EUMY2, BRTE

Water: 0
Rock: 30
Talus: 12
Gravel: 7
Bare Ground: 5
Moss Lichen: 3
Litter: 45

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PSME/ACGLD4-PHMA5-HODI	50	Matrix	FAIR
Veg Community1: PSME/PHMA5 Williams and others 1995			G5
Existing Veg2: PSME-PIPO/AMAL2-CEVE/FEID-APAN2- BASA3	45	Large patch	FAIR
Veg Community3: PSME/FEID			
Existing Veg3: bare rock	5	Large patch	GOOD
Veg Community3: rock outcrops/cliffs			

Notes: BELOW STEEP AREA OF POLY OF BURNED BY FIRE 14 YEARS AGO; NOT WALKED COMPLETELY, BUT COULD SEE WELL; ANPA4 FOUND; OLD RAIL BED

Polygon Number **800** **ParkName:**

Survey Intensity 1 **Riverside**
Observer RO, JR, AM, DH
Date 7/15/2008
Total Vegetation 5
Trees Total 5
Dominant Trees PSME, PIPO, POBAT, ACER
emergent 3
maincanopy 4
subcanopy 3
Shrubs Total 3
Dominant Shrubs SYAL, HODI, PHMA5, MAAQ2, ERHE2, ARUV
> 1.5' tall 3
< 1.5' tall 2
Graminoids Total 3
Dominant Graminoids ELGL, POBU, ACOC3
Graminoids Perennial 3
Graminoids Annual 1
Forbs Total 3
Dominant Forbs MAST4, BASA3, LONE4
Forbs Perennial 3
Forbs Annual 2
Ferns Total 2
Ferns Evergreen 0
Ferns Deciduous 2
ExoticsTotal 2
Exotics Perennial 2
Exotics Annual 1
Water 4
Rock Outcrop 0

Gravel 3

Logging 1
Fire: probably
Stand Age 6
Agriculture 0
Livestock 0
Development 6
Wildlife 3
Recreation Severity 3
Recreation Type 3
Hydrology 2

Exotic Species

Noxious Exotic Plants
 CESTM, CEDI3, HYPE, PORE5, LIDAD,
Other Exotic Plants
 TAOF, TRDU, CIAR4, POBU, CYSC4

Water: 4
Rock: 0
Talus: 5
Gravel: 3
Bare Ground: 2
Moss Lichen: 20
Litter: 66

Vegetation Types

	Percent	Pattern	Rank	
Existing Veg1: PSME/SYAL-HODI-PHMA5/MAST4-ELGL	90	Matrix	GOOD	
Veg Community1: PSME/PHMA5 Williams and others 1995			G5	
Existing Veg2: PIPO/ERHE2-ARUV/BASA3-LONE4	7	Small patch	FAIR	
Veg Community3: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4	
Existing Veg3: ACER-BEOC2-SORBU/COSE16/PHAR3- RUCR	2	Small patch	POOR	
Veg Community3: river riparian zone				

Notes: Spokane River Riparian Zone (1% of total, Pattern 6); weeds mostly along trail; ANPA4 found along trail; old concrete foundation suggesting old homestead; Osprey

Polygon Number 803

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns Percent 0 Pattern Rank N/A

Veg Community1: former agricultural field

Existing Veg2: 0

Veg Community3:

Existing Veg3: 0

Veg Community3:

Notes:

Polygon Number 804

ParkName:

Riverside

Survey Intensity 2
 Observer PM
 Date 8/26/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO
 emergent 0
 maincanopy 4
 subcanopy 1
 Shrubs Total 3
 Dominant Shrubs AMAL2, ARUV, PHCA7, ARTR2, ERCO12, ERN12
 > 1.5' tall 3
 < 1.5' tall 3
 Graminoids Total 4
 Dominant Graminoids CAGE2, PSSP6, FEID, POBU, BRTE, BRAR5, ELRE4
 Graminoids Perennial 4
 Graminoids Annual 3
 Forbs Total 3
 Dominant Forbs LUPIN, ANPA4, BASA3, GAAR, ARLU, ASMI9, GRNA
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 2
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, TAVU, VETH, CESTM, CHJU,

Other Exotic Plants

BRTE, POBU, BRAR5

Water: 0
Rock: 0
Talus: 2
Gravel: 2
Bare Ground: 5
Moss Lichen: 15
Litter: 76

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2-ARUV-PHCA7/CAGE2-PSSP6-	FEID	80	Matrix GOOD
Veg Community1: PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg2: PIPO/ARTR2-AMAL-ERCO12/BRAR5-ELRE4	20	Small patch	FAIR
Veg Community3: PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 HERE; DRY CHANNEL THROUGH HERE

Polygon Number

805

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes: mostly old field

Percent Pattern Rank

0 N/A

0

0

Polygon Number 806

ParkName:

Riverside

Survey Intensity 2
 Observer GW
 Date 8/27/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PIPO
 emergent 0
 maincanopy 4
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs AMAL2, SADO4
 > 1.5' tall 2
 < 1.5' tall 0
 Graminoids Total 4
 Dominant Graminoids POBU, CARO5, FEID, PSSP6, BRRA2
 Graminoids Perennial 4
 Graminoids Annual 1
 Forbs Total 4
 Dominant Forbs PHLOX, LULE3, CIUN, ANPA4, SILEN, ACMI2, GETR, LIRU4
 Forbs Perennial 4
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 0
 Wildlife 2
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, CESTM

Other Exotic Plants

BRRA2

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 0
Moss Lichen: 1
Litter: 99

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/PSSP6-CARU-POBU	100	Matrix	GOOD
Veg Community1: PIPO/FEID Bourgeron and Engelking 1994			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: CONDITION GOOD EXCEPT NO SIGN OF RECENT FIRE

Polygon Number

807B

ParkName:

Riverside

Survey Intensity	2	
Observer	GW	
Date	8/27/2008	
Total Vegetation	5	
Trees Total	2	
Dominant Trees	PIPO	
emergent	0	
maincanopy	2	
subcanopy	1	
Shrubs Total	0	
Dominant Shrubs		
> 1.5' tall	0	
< 1.5' tall	0	
Graminoids Total	4	
Dominant Graminoids	POBU, ACOC3, PSSP6, CARO5, BRRA2	
Graminoids Perennial	4	
Graminoids Annual	4	
Forbs Total	4	
Dominant Forbs	ACMI2, CESTM, VICIA, GRNA, PLPA2, HYPE, ECVU, POLYG4,	
Forbs Perennial	3	
Forbs Annual	4	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	4	
Exotics Perennial	4	
Exotics Annual	2	
Water	0	
Rock Outcrop	0	
Gravel	0	
Logging	0	
Fire:	2	
Stand Age	0	
Agriculture	0	
Livestock	0	
Development	5	
Wildlife	3	
Recreation Severity	1	
Recreation Type	1	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

CESTM, ECVU, CHJU, PORE5, LIDAD

Other Exotic Plants

HYPE

Water:	0
Rock:	0
Talus:	0
Gravel:	0
Bare Ground:	20
Moss Lichen:	0
Litter:	80

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/ACOC3-BRRA2-PLMA2	100	Matrix	POOR
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: VERY WEEDY - GRASS - FORB W/ BSE TRAILS

Polygon Number

807C

ParkName:

Riverside

Survey Intensity	2	
Observer	PM	
Date	8/27/2008	
Total Vegetation	4	
Trees Total	4	
Dominant Trees	PIPO	
emergent	0	
maincanopy	4	
subcanopy	3	
Shrubs Total	2	
Dominant Shrubs	AMAL2	
> 1.5' tall	2	
< 1.5' tall	1	
Graminoids Total	4	
Dominant Graminoids	POBU, BARRA2, BRTE, CAGE2, FEID, ELRE4, ELELE	
Graminoids Perennial	4	
Graminoids Annual	3	
Forbs Total	3	
Dominant Forbs	ANPA4, ACMI2, HYPE, LIDAD, CESTM, BASA3, PLPA2, ARCO5	
Forbs Perennial	3	
Forbs Annual	2	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	3	
Exotics Perennial	3	
Exotics Annual	3	
Water	0	
Rock Outcrop	0	
Gravel	5	
Logging	1	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	0	
Wildlife	3	
Recreation Severity	1	
Recreation Type	1	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

CESTM, HYPE, LIDAD

Other Exotic Plants

POBU, BARRA2, BRTE

Water:	0
Rock:	0
Talus:	0
Gravel:	5
Bare Ground:	35
Moss Lichen:	3
Litter:	57

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2/FEID-POBU-BARRA2	100	Matrix	POOR
Veg Community1: disturbed/weedy			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: POLYGON TRASHED BY ORVS.

Polygon Number**807A****ParkName:****Riverside**

Survey Intensity	2	
Observer	PM	
Date	8/27/2008	
Total Vegetation	4	
Trees Total	4	
Dominant Trees	PIPO	
emergent	0	
maincanopy	4	
subcanopy	3	
Shrubs Total	2	
Dominant Shrubs	AMAL2	
> 1.5' tall	2	
< 1.5' tall	1	
Graminoids Total	4	
Dominant Graminoids	POBU, BARRA2, BRTE, CAGE2, FEID, ELRE4, ELELE	
Graminoids Perennial	4	
Graminoids Annual	3	
Forbs Total	3	
Dominant Forbs	ANPA4, ACMI2, HYPE, LIDAD, CESTM, BASA3, PLPA2, ARCO5	
Forbs Perennial	3	
Forbs Annual	2	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	3	
Exotics Perennial	3	
Exotics Annual	3	
Water	0	
Rock Outcrop	0	
Gravel	5	
Logging	1	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	0	
Wildlife	3	
Recreation Severity	1	
Recreation Type	1	
Hydrology	1	

Exotic Species**Noxious Exotic Plants**

CESTM, HYPE, LIDAD

Other Exotic Plants

POBU, BARRA2, BRTE

Water:	0
Rock:	0
Talus:	0
Gravel:	5
Bare Ground:	35
Moss Lichen:	3
Litter:	57

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2/FEID-POBU-BARRA2	70	Matrix	POOR
Veg Community1: disturbed/weedy			
Existing Veg2: PIPO/AMAL2/FEID-POBU-BARRA2	30	Large patch	GOOD
Veg Community3: PIPO/FEID		Bourgeron and Engelking 1994	G4
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 HERE; MOST OF POLYGON TRASHED BY ORVS, PART FENCED (eastern 1/3) IN GOOD CONDITION.

Polygon Number 807D

ParkName:

Riverside

Survey Intensity	2	
Observer	PM	
Date	8/27/2008	
Total Vegetation	4	
Trees Total	4	
Dominant Trees	PIPO	
emergent	0	
maincanopy	4	
subcanopy	3	
Shrubs Total	2	
Dominant Shrubs	AMAL2	
> 1.5' tall	2	
< 1.5' tall	1	
Graminoids Total	4	
Dominant Graminoids	POBU, BARRA2, BRTE, CAGE2, FEID, ELRE4, ELELE	
Graminoids Perennial	4	
Graminoids Annual	3	
Forbs Total	3	
Dominant Forbs	ANPA4, ACMI2, HYPE, LIDAD, CESTM, BASA3, PLPA2, ARCO5	
Forbs Perennial	3	
Forbs Annual	2	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	3	
Exotics Perennial	3	
Exotics Annual	3	
Water	0	
Rock Outcrop	0	
Gravel	5	
Logging	1	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	0	
Wildlife	3	
Recreation Severity	1	
Recreation Type	1	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

CESTM, HYPE, LIDAD

Other Exotic Plants

POBU, BARRA2, BRTE

Water:	0
Rock:	0
Talus:	0
Gravel:	5
Bare Ground:	35
Moss Lichen:	3
Litter:	57

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2/FEID-POBU-BARRA2	100	Matrix	POOR
Veg Community1: disturbed/weedy			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: POLYGON TRASHED BY ORVS

Polygon Number**809B****ParkName:****Riverside**

Survey Intensity	2
Observer	PM
Date	8/27/2008
Total Vegetation	5
Trees Total	4
Dominant Trees	PIPO
emergent	1
maincanopy	4
subcanopy	4
Shrubs Total	1
Dominant Shrubs	PHCA7, AMAL2
> 1.5' tall	1
< 1.5' tall	1
Graminoids Total	4
Dominant Graminoids	POBU, BRRA2, POA, ACOC3, BRTE, ARIST
Graminoids Perennial	4
Graminoids Annual	4
Forbs Total	3
Dominant Forbs	LUPIN LIDAD, ACMI2, POGRF, CESTM, HYPE, PLPA2
Forbs Perennial	3
Forbs Annual	2
Ferns Total	0
Ferns Evergreen	0
Ferns Deciduous	0
ExoticsTotal	3
Exotics Perennial	3
Exotics Annual	3
Water	0
Rock Outcrop	0
Gravel	2
Logging	1
Fire:	0
Stand Age	2/3
Agriculture	0
Livestock	0
Development	0
Wildlife	3
Recreation Severity	3
Recreation Type	3
Hydrology	1

Exotic Species

Noxious Exotic Plants
CESTM, LIDAD, HYPE, CHJU
Other Exotic Plants
POBU, BRRA2, BRTE

Water:	0
Rock:	0
Talus:	0
Gravel:	2
Bare Ground:	5
Moss Lichen:	5
Litter:	88

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1:	PIPO/POBU-BRRA2-ACOC3	100 Matrix	FAIR
Veg Community1:	PIPO/PSSP6	Daubenmire and Daubenmire 1984	G4
Existing Veg2:		0	
Veg Community3:			
Existing Veg3:		0	
Veg Community3:			

Notes: FLAT, LOTS OF YOUNG PIPO AND PATCHES OF MATURE PIPO

Polygon Number **809A** **ParkName:**

Survey Intensity 2 **Riverside**
Observer PM
Date 8/27/2008
Total Vegetation 5
Trees Total 4
Dominant Trees PIPO, MAPU
emergent 0
maincanopy 4
subcanopy 3
Shrubs Total 1
Dominant Shrubs AMAL2, SYAL
> 1.5' tall 1
< 1.5' tall 1
Graminoids Total 4
Dominant Graminoids POBU, BRRA2, ELRE4, ACOC3, ARIST, CAGE2
Graminoids Perennial 3
Graminoids Annual 3
Forbs Total 4
Dominant Forbs LUPIN, EUES, LIDAD, TRDU, CIUN, ANPA4
Forbs Perennial 4
Forbs Annual 2
Ferns Total 0
Ferns Evergreen 0
Ferns Deciduous 0
ExoticsTotal 5
Exotics Perennial 4
Exotics Annual 4
Water 0
Rock Outcrop 0

Gravel 2

Logging 1
Fire: 0
Stand Age 1/2
Agriculture 0
Livestock 0
Development 0
Wildlife 3
Recreation Severity 3
Recreation Type 3
Hydrology 1

Exotic Species

Noxious Exotic Plants
 EUES, LIDAD
Other Exotic Plants
 POBU, BRRA2, TRDU

Water: 0
Rock: 0
Talus: 0
Gravel: 2
Bare Ground: 5
Moss Lichen: 1
Litter: 92

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/EUES-LUPIN-BRRA2-POBU	100	Matrix	POOR
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: LOTS OF EUES; A LITTLE ANPA4

Polygon Number**810Y****ParkName:****Riverside**

Survey Intensity	1	
Observer	GW	
Date	8/28/2008	
Total Vegetation	5	
Trees Total	3	
Dominant Trees	ACNE2, ACSA2	
emergent	0	
maincanopy	3	
subcanopy	2	
Shrubs Total	3	
Dominant Shrubs	VIMI2, COSE16, ARAB3, SPDO	
> 1.5' tall	3	
< 1.5' tall	1	
Graminoids Total	4	
Dominant Graminoids	PHAR3, unk, JUNCU, CAREX	
Graminoids Perennial	4	
Graminoids Annual	1	
Forbs Total	4	
Dominant Forbs	SODU, IRPS, MEAR4, MYOSO, ROIS2, POPE3, GNPA	
Forbs Perennial	2	
Forbs Annual	4	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	4	Exotic Species
Exotics Perennial	3	Noxious Exotic Plants
Exotics Annual	4	IRPS, PHAR3, ARAB3
Water	0	Other Exotic Plants
Rock Outcrop	0	VIMI2, SODU, ACNE2
Gravel	5	Water: 0
Logging	0	Rock: 0
Fire:	0	Talus: 0
Stand Age	1	Gravel: 5
Agriculture	0	Bare Ground: 0
Livestock	0	Moss Lichen: 93
Development	0	Litter: 0
Wildlife	3	
Recreation Severity	3	
Recreation Type	4	
Hydrology	2	

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: SALUL-ACNE2/PHAR3-ROIS2	100	Matrix	POOR
Veg Community1: SALUL/COSE16 Undescribed			G2
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: RIPARIAN BOTTONLAND WITH SILTY SOIL AND DECIDUOUS FOREST.

Polygon Number 810A ParkName:

Riverside

Survey Intensity 1
 Observer RO
 Date 8/29/2008
 Total Vegetation 0
 Trees Total 0
 Dominant Trees PIPO, PSME
 emergent 0
 maincanopy 0
 subcanopy 0
 Shrubs Total 0
 Dominant Shrubs PHMA5, SYAL, AMAL2, ARUV, ERNI2
 > 1.5' tall 0
 < 1.5' tall 0
 Graminoids Total 0
 Dominant Graminoids PSSP6, POBU, DAUN
 Graminoids Perennial 0
 Graminoids Annual 0
 Forbs Total 0
 Dominant Forbs BASA3, ACMI2, PYCA, ASMI9, COGR
 Forbs Perennial 0
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0

Exotic Species

Noxious Exotic Plants

Other Exotic Plants
 LIDAD, TAVU, CHJU

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 0
Moss Lichen: 0
Litter: 0

Gravel 0
 Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/PHMA5/PSSP6	0		
Veg Community1: PSME/PHMA5	Williams and others 1995		G5
Existing Veg2: disturbed creek bed (TAVU)	0		
Veg Community3: disturbed/weedy			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 throughout. Reevaluate totals from larger screen - can't tell where creek bed is on Mio.

Polygon Number **810Z** **ParkName:**

Survey Intensity 1 **Riverside**

Observer GW
Date 8/28/2008

Total Vegetation 4
Trees Total 3
Dominant Trees PSME, SALIX, POBAT
emergent 0
maincanopy 2
subcanopy 3
Shrubs Total 3
Dominant Shrubs PREM, CLLI2, PHLE4, COSE16, SAEX
> 1.5' tall 3
< 1.5' tall 2
Graminoids Total 3
Dominant Graminoids PSSP6, POPR, BRIN2, ELRE4, PHAR3
Graminoids Perennial 3
Graminoids Annual 1
Forbs Total 3
Dominant Forbs XAST, CESTM, ARLU, GRNA
Forbs Perennial 3
Forbs Annual 2
Ferns Total 0
Ferns Evergreen 0
Ferns Deciduous 0
ExoticsTotal 3
Exotics Perennial 3
Exotics Annual 1
Water 4
Rock Outcrop 2

Exotic Species

Noxious Exotic Plants
LIDAD, CESTM
Other Exotic Plants
TAVU, PHAR3, PORTU

Water: 4
Rock: 2
Talus: 10
Gravel: 10
Bare Ground: 40
Moss Lichen: 3
Litter: 31

Gravel 10
Logging 0
Fire: 0
Stand Age 1
Agriculture 0
Livestock 0
Development 5
Wildlife 3
Recreation Severity 3
Recreation Type 4
Hydrology 1

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: POBAT/SAEX	100	Matrix	FAIR
Veg Community1: POBAT/SAEX	Crawford 2003; Kagan 2000		G1
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: CHANNEL WAS DRY; PHAR3 NOT DOMINANT, BUT TAVU WAS IN SOME PLACES

Polygon Number**810B****ParkName:****Riverside**

Survey Intensity	1
Observer	GW
Date	8/28/2008
Total Vegetation	5
Trees Total	4
Dominant Trees	PSME, PIPO
emergent	3
maincanopy	3
subcanopy	2
Shrubs Total	3
Dominant Shrubs	PHMA5, ACGL, SYAL, ERHE2, PHLE4, CLLI2, ARUV, RICE, CESA,
> 1.5' tall	3
< 1.5' tall	2
Graminoids Total	3
Dominant Graminoids	PSSP6, PHAR3, KOMA, CARU, POPR, AGROS2, CARO5
Graminoids Perennial	3
Graminoids Annual	1
Forbs Total	2
Dominant Forbs	CHJU, VETH, CESTM, LIDAD, ECVU, aster, MARA7, ANPA4
Forbs Perennial	2
Forbs Annual	1
Ferns Total	0
Ferns Evergreen	0
Ferns Deciduous	0
ExoticsTotal	2
Exotics Perennial	2
Exotics Annual	1
Water	1
Rock Outcrop	1
Gravel	1
Logging	0
Fire:	0
Stand Age	3
Agriculture	0
Livestock	0
Development	5
Wildlife	3
Recreation Severity	3
Recreation Type	4
Hydrology	1

Exotic Species**Noxious Exotic Plants**

CHJU, CESTM, LIDAD, ECVU

Other Exotic Plants

VETH, TRDU

Water:	1
Rock:	1
Talus:	1
Gravel:	1
Bare Ground:	2
Moss Lichen:	2
Litter:	92

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PSME/PHMA5	10	linear	GOOD
Veg Community1: PSME/PHMA5	Williams and others 1995		G5
Existing Veg2: PSME-PIPO/CARU-LIDAD-PSSP6	80	Matrix	FAIR
Veg Community3: PSME/CARU	Bourgeron and Engelking 1994; Williams and others 1995		G5
Existing Veg3: PSME/SPBE2/CARU	20	linear	FAIR
Veg Community3: PSME/SPBE2			

Notes: MANY EXOTICS

Polygon Number 811

ParkName:

Riverside

Survey Intensity 2
 Observer PM
 Date 8/27/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PIPO, PSME
 emergent 1
 maincanopy 4
 subcanopy 3
 Shrubs Total 1
 Dominant Shrubs AMAL2, ARUV
 > 1.5' tall 1
 < 1.5' tall 1
 Graminoids Total 4
 Dominant Graminoids POBU, CAGE2, BRTE, BRRA2, THIN6
 Graminoids Perennial 3
 Graminoids Annual 3
 Forbs Total 3
 Dominant Forbs LIDAD, BASA3, POGRF, GAAR, ANMI3, ARCO5, ANPA4, RUAC3,
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 1
 Fire: 0
 Stand Age 3
 Agriculture 0
 Livestock 0
 Development 4
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants

CHJU, LIDAD, CESTM

Other Exotic Plants

POBU, BRTE

Water: 0
Rock: 0
Talus: 0
Gravel: 1
Bare Ground: 5
Moss Lichen: 3
Litter: 91

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-CAGE2-ANPA4	100	Matrix	GOOD
Veg Community1: PSME/CAGE2			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: NPA4 HERE. PARTS WITH MODERATLY LARGE OPEN PIPO, OTHER PARTS WITH DENSE YOUNG PIPO .

Polygon Number 812

ParkName:

Riverside

Survey Intensity 2
 Observer PM
 Date 8/27/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO, PSME, POBAT
 emergent 1
 maincanopy 4
 subcanopy 3
 Shrubs Total 3
 Dominant Shrubs AMAL2, PHMA5, SPBE2, MAAQ, PHLE4, CLLI2
 > 1.5' tall 3
 < 1.5' tall 2
 Graminoids Total 4
 Dominant Graminoids POBU, CARU, FEID, PSSP6, ELRE4
 Graminoids Perennial 4
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs ASMI9, ANPA4, GAAR, ACMI2, TAVU, ARCO5, HECY2
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 2
 Ferns Evergreen 0
 Ferns Deciduous 2
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 0
 Water 0
 Rock Outcrop 1
 Gravel 5
 Logging 1
 Fire: OLD FIRE SCARS
 Stand Age 2/3
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants

TAVU, CESTM, ANOF

Other Exotic Plants

POBU, ELRE4

Water: 0
Rock: 1
Talus: 18
Gravel: 5
Bare Ground: 2
Moss Lichen: 10
Litter: 64

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/CARU	75	Matrix	GOOD
Veg Community1: PSME/PHMA5 Williams and others 1995			G5
Existing Veg2: PSME-POBAT/PHLE4-CLLI2/TAVU-ARLU	25	linear	FAIR
Veg Community3: river riparian zone			

Existing Veg3: 0

Veg Community3:

Notes: ANPA4; STEEP SLOPES, TALUS, CLIFF AND ROCKY, INTERMITTENT STREAM COURSE.

Polygon Number 814A ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/4/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO
 emergent 2
 maincanopy 4
 subcanopy 3
 Shrubs Total 1
 Dominant Shrubs AMAL2
 > 1.5' tall 0
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids POBU, PSSP6
 Graminoids Perennial 3
 Graminoids Annual 3
 Forbs Total 3
 Dominant Forbs BASA3, LUSE4, LONE4, LUAR3
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 1
 Rock Outcrop 0
 Gravel 2
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD
 Other Exotic Plants
 POBU

Water: 1
Rock: 0
Talus: 3
Gravel: 2
Bare Ground: 1
Moss Lichen: 3
Litter: 90

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/BASA3-POBU-LUSE4	100	Matrix	GOOD
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2: developed	0		DEVELO
Veg Community3: developed			
Existing Veg3:	0		
Veg Community3:			

Notes: developed - trail, facilities; ANPA4 found here; many PIPO under 14 yrs (or younger) near power corridor

Polygon Number 814B ParkName:

Survey Intensity 1 Riverside

Observer JR, DH
Date 8/4/2008

Total Vegetation 5
Trees Total 4
Dominant Trees PIPO, ALVIS
emergent 1
maincanopy 4
subcanopy 2
Shrubs Total 2
Dominant Shrubs ARUV, MAAQ2, AMAL2
> 1.5' tall 2
< 1.5' tall 2
Graminoids Total 3
Dominant Graminoids POBU, HECO26, exotic grasses BRTE
Graminoids Perennial 3
Graminoids Annual 2
Forbs Total 3
Dominant Forbs BASA3, LIDAD, LONE4, APCA, HIAL2
Forbs Perennial 3
Forbs Annual 2
Ferns Total 0
Ferns Evergreen 0
Ferns Deciduous 0
ExoticsTotal 4
Exotics Perennial 4
Exotics Annual 2
Water 5
Rock Outcrop 0
Gravel 2
Logging 1
Fire: 0
Stand Age 5
Agriculture 0
Livestock 0
Development 6
Wildlife 3
Recreation Severity 3
Recreation Type 3
Hydrology 1

Exotic Species

Noxious Exotic Plants
 LIDAD, CESTM, CHJU, ECVU
Other Exotic Plants
 LIRU4, POBU, PORE5, PHAR3

Water: 5
Rock: 0
Talus: 3
Gravel: 2
Bare Ground: 5
Moss Lichen: 0
Litter: 85

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-APCA-BASA3	60	Matrix	FAIR
Veg Community1: PIPO/HECO26	Bourgeron and Engelking 1994		G1
Existing Veg2: old disturbed field	25	Large patch	POOR
Veg Community3: former agricultural field			
Existing Veg3: ALVIS-SALIX/PHAR3	15	Small patch	FAIR
Veg Community3: river riparian zone			

Notes: ANPA4 found here; PA 4 - seasonal wet area

Polygon Number 819

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/4/2008
 Total Vegetation 5
 Trees Total 0
 Dominant Trees
 emergent 0
 maincanopy 0
 subcanopy 0
 Shrubs Total 2
 Dominant Shrubs AMAL2, ERHE2
 > 1.5' tall 2
 < 1.5' tall 1
 Graminoids Total 4
 Dominant Graminoids POBU, BRTE, HECO26
 Graminoids Perennial 3
 Graminoids Annual 3
 Forbs Total 4
 Dominant Forbs CHJU, LUAR3, BASA3
 Forbs Perennial 4
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 4
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 2
 Logging 2
 Fire: 0
 Stand Age 0
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 ANOF, CHJU, LIDAD, CESTM, CEDI3
Other Exotic Plants
 BRTE, POBU, VETH, TRDU, TAOF

Water: 0
Rock: 0
Talus: 1
Gravel: 2
Bare Ground: 3
Moss Lichen: 1
Litter: 93

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: <small>disturbed</small>	100	Matrix	DEVELO
Veg Community1: <small>developed</small>			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			
Notes: <small>under powerline</small>			

Polygon Number **820B** **ParkName:**

Survey Intensity 1 **Riverside**

Observer RO, AM

Date 8/4/2008

Total Vegetation 4

Trees Total 4

Dominant Trees SALA2, PIPO, ALIN2, ACNE2, ULMUS

emergent 3

maincanopy 3

subcanopy 3

Shrubs Total 3

Dominant Shrubs PRVI, PHLE4, ROWO, CRDO2, SAEX

> 1.5' tall 3

< 1.5' tall 0

Graminoids Total 3

Dominant Graminoids PHAR3, BRIN2

Graminoids Perennial 3

Graminoids Annual 0

Forbs Total 3

Dominant Forbs URDI, TAVU

Forbs Perennial 3

Forbs Annual 0

Ferns Total 0

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 3

Exotics Perennial 3

Exotics Annual 0

Water 1

Rock Outcrop 0

Gravel 2

Logging 0

Fire: 0

Stand Age 2

Agriculture 0

Livestock 0

Development 0

Wildlife 3

Recreation Severity 3

Recreation Type 3

Hydrology 1

Exotic Species

Noxious Exotic Plants

TAVU, HYPE, CIAR4

Other Exotic Plants

Water: 1

Rock: 0

Talus: 0

Gravel: 2

Bare Ground: 15

Moss Lichen: 0

Litter: 82

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: SALA2-PIPO-ALIN2/SAEX-CRDO2/PHAR3-	URDI-TAVU	100	Matrix POOR
Veg Community1: river riparian zone			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: very dense TRVU on water edge; ALIN2-need to key

Polygon Number 820A

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/4/2008
 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
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 100
 Rock Outcrop 0
 Gravel 0
 Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 100
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 0
Moss Lichen: 0
Litter: 0

Vegetation Types

Percent	Pattern	Rank
100	Matrix	FAIR
0		
0		

Existing Veg1: water
 Veg Community1: water
 Existing Veg2:
 Veg Community3:
 Existing Veg3:
 Veg Community3:

Notes:

Polygon Number 822

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 8/29/2008
 Total Vegetation 5
 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 4
 Dominant Graminoids DAGL, BRRA2
 Graminoids Perennial 1
 Graminoids Annual 4
 Forbs Total 3
 Dominant Forbs
 Forbs Perennial 3
 Forbs Annual 3
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 5
 Exotics Perennial 3
 Exotics Annual 4
 Water
 Rock Outcrop
 Gravel
 Logging 3
 Fire: 0
 Stand Age 0
 Agriculture 4
 Livestock 0
 Development 0
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 2

Exotic Species

Noxious Exotic Plants

LIDAD, ECVU

Other Exotic Plants

VETH, SIAL2

Water:

Rock:

Talus:

Gravel:

Bare Ground: 20

Moss Lichen:

Litter: 80

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: LIDAD-BRRA2	100	Matrix	POOR
Veg Community1: PIPO/FEID		Bourgeron and Engelking 1994	G4

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes: old alfalfa field

Polygon Number

825C

ParkName:

Riverside

Survey Intensity	2	
Observer	PM	
Date	8/30/2008	
Total Vegetation	5	
Trees Total	5	
Dominant Trees	PIPO	
emergent	0	
maincanopy	4	
subcanopy	5	
Shrubs Total	2	
Dominant Shrubs	AMAL2, ARUV, SYAL, PHCA7	
> 1.5' tall	2	
< 1.5' tall	1	
Graminoids Total	3	
Dominant Graminoids	CARU, POA, BRRA2, ACOC3, BRTE	
Graminoids Perennial	3	
Graminoids Annual	2	
Forbs Total	3	
Dominant Forbs	ACMI2, LUPIN, LIDAD, ANRA, FRVI, SOCA6, RUAC3, ARCO5,	
Forbs Perennial	2	
Forbs Annual	2	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	3	
Exotics Perennial	3	
Exotics Annual	2	
Water	0	
Rock Outcrop	0	
Gravel	2	
Logging	2	
Fire:	0	
Stand Age	1/2	
Agriculture	0	
Livestock	0	
Development	0	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE

Other Exotic Plants

POBU, BRRA2

Water:	0
Rock:	0
Talus:	0
Gravel:	2
Bare Ground:	8
Moss Lichen:	2
Litter:	88

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/CARU	100	Matrix	FAIR
Veg Community1: PIPO/CARU		Bourgeron and Engelking 1994	G2
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: PARTIALY CUT STAND, HEAVYCUT, DENSE, THICK YOUNG PIPO

Polygon Number **825D** **ParkName:**

Survey Intensity 2 **Riverside**
Observer PM
Date 8/30/2008
Total Vegetation 5
Trees Total 4
Dominant Trees PIPO, PSME
emergent 2
maincanopy 4
subcanopy 3
Shrubs Total 2
Dominant Shrubs AMAL2
> 1.5' tall 2
< 1.5' tall 2
Graminoids Total 4
Dominant Graminoids CARU, PSSP6, BRRA2, BRTE, POBU
Graminoids Perennial 4
Graminoids Annual 4
Forbs Total 3
Dominant Forbs LUPIN, BASA3, HISCA, ACMI2, LIDAD, PLPA2, GAAR
Forbs Perennial 3
Forbs Annual 0
Ferns Total 0
Ferns Evergreen 0
Ferns Deciduous 0
ExoticsTotal 3
Exotics Perennial 3
Exotics Annual 2
Water 0
Rock Outcrop 5

Gravel 5

Logging 2
Fire: 0
Stand Age 3
Agriculture 0
Livestock 0
Development 4
Wildlife 3
Recreation Severity 3
Recreation Type 4
Hydrology 1

Exotic Species

Noxious Exotic Plants
LIDAD, ECVU, CESTM
Other Exotic Plants
POBU, BRTE, BRRA2

Water: 0
Rock: 5
Talus: 3
Gravel: 5
Bare Ground: 12
Moss Lichen: 8
Litter: 67

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/PSSP6-POBU-BRTE-BASA3	100	Matrix	FAIR
Veg Community1: PSME/PSSP6 Williams and others 1995			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 825B ParkName:

Riverside

Survey Intensity 2
 Observer PM
 Date 8/30/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO, PSME, ACMA3
 emergent 2
 maincanopy 3
 subcanopy 2
 Shrubs Total 3
 Dominant Shrubs AMAL2, SYAL, PHLE4, PUTR2
 > 1.5' tall 3
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids POBU, BRTE, PSSP6
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs BASA3, LUPIN, HISCA, ANPA4
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 2
 Water 0
 Rock Outcrop 20
 Gravel 10
 Logging 1
 Fire: 0
 Stand Age 6
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 LIDAD, CESTM
Other Exotic Plants

Water: 0
Rock: 20
Talus: 15
Gravel: 10
Bare Ground: 10
Moss Lichen: 1
Litter: 44

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/AMAL2-SYAL-PHLE4- PUTR2/PSSP6-BASA3		70	Matrix GOOD
Veg Community1: PSME/PSSP6 Williams and others 1995			G4
Existing Veg2: rock outcrops/cliffs	30	Large patch	EXCELLE
Veg Community3: rock outcrops/cliffs			
Existing Veg3:	0		
Veg Community3:			

Notes: STEEP ROCKY, CLIFFY SLOPE, OPEN PIPO FOREST

Polygon Number **825A** **ParkName:**

Survey Intensity 2 **Riverside**

Observer PM

Date 8/30/2008

Total Vegetation 5

Trees Total 4

Dominant Trees PIPO

emergent 1

maincanopy 3

subcanopy 4

Shrubs Total 2

Dominant Shrubs ERNI2, AMAL2, PHLE4

> 1.5' tall 2

< 1.5' tall 1

Graminoids Total 3

Dominant Graminoids ACOC3, POBU, BRTE, PSSP6, CAGE2

Graminoids Perennial 3

Graminoids Annual 2

Forbs Total 3

Dominant Forbs LIDAD, RUAC3, CHJU, ACMI2, LONE4

Forbs Perennial 3

Forbs Annual 2

Ferns Total 0

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 4

Exotics Perennial 3

Exotics Annual 3

Water 0

Rock Outcrop 0

Exotic Species

Noxious Exotic Plants

CHJU, LIDAD, HYPE

Other Exotic Plants

POBU, BRTE

Water: 0

Rock: 0

Talus: 0

Gravel: 2

Bare Ground: 13

Moss Lichen: 3

Litter: 82

Gravel 2

Logging 2

Fire: 0

Stand Age 3/1

Agriculture 0

Livestock 0

Development 3

Wildlife 3

Recreation Severity 3

Recreation Type 3

Hydrology 1

Vegetation Types

		Percent	Pattern	Rank
Existing Veg1:	PIPO/ACOC3-CHJU-LIDAD	100	Matrix	POOR
Veg Community1:	PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:		0		
Veg Community3:				
Existing Veg3:		0		
Veg Community3:				

Notes:

Polygon Number

830

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number

833

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number

834

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number

835B

ParkName:

Riverside

Survey Intensity	2	
Observer	GW	
Date	9/8/2008	
Total Vegetation	6	
Trees Total	1	
Dominant Trees	PIPO	
emergent	0	
maincanopy	0	
subcanopy	1	
Shrubs Total	0	
Dominant Shrubs		
> 1.5' tall	0	
< 1.5' tall	0	
Graminoids Total	5	
Dominant Graminoids	BRRA2, BRTE, ELRE4, POPR	
Graminoids Perennial	3	
Graminoids Annual	4	
Forbs Total	3	
Dominant Forbs	MADIA, ECVU, SIAL2, COCA5, LOAR5, TAVU, LIDAD, VEBL, VIVI,	
Forbs Perennial	1	
Forbs Annual	3	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	6	
Exotics Perennial	5	
Exotics Annual	4	
Water	0	
Rock Outcrop	0	
Gravel	0	
Logging	0	
Fire:	0	
Stand Age	0	
Agriculture	1	
Livestock	0	
Development	6 (ROADS,	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

ANAZ, CESTM, ECVU, TAVU, LIDAD,

Other Exotic Plants

VETH, HYPE, POPR

Water:	0
Rock:	0
Talus:	0
Gravel:	0
Bare Ground:	5
Moss Lichen:	0
Litter:	95

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: grassland	100	Matrix	POOR
Veg Community1: agricultural field			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Majority is mowed grasses for hay - difficult to ID (ELRE4?)

Polygon Number 835A

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 9/8/2008
 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
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0
 Rock: 0
 Talus: 0
 Gravel: 0
 Bare Ground: 0
 Moss Lichen: 0
 Litter: 0

Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: developed	100	Matrix	DEVELO
Veg Community1: developed			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: houses, road, driveways, structures

Polygon Number

836

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 838

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 9/8/2008
 Total Vegetation 3
 Trees Total 0
 Dominant Trees
 emergent 0
 maincanopy 0
 subcanopy 0
 Shrubs Total 1
 Dominant Shrubs PHMA5, RHGL, ELRE4, AMAL2
 > 1.5' tall 1
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids ACHY, BRTE
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 1
 Dominant Forbs VETH, LIDAD, CHJU, ECVU, ACMI2
 Forbs Perennial 1
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 2
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 0
 Fire: 0
 Stand Age 0
 Agriculture 0
 Livestock 0
 Development 2
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, CHJU, ECVU

Other Exotic Plants

BRTE

Water: 0
Rock: 0
Talus: 0
Gravel: 1
Bare Ground: 90
Moss Lichen: 0
Litter: 9

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ACHY-CHJU	100	Matrix	POOR
Veg Community1: disturbed/weedy			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number

841

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 845 ParkName:

Riverside

Survey Intensity 2
 Observer PM
 Date 8/30/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees POBAT, ACMA3, POAL7
 emergent 3
 maincanopy 4
 subcanopy 2
 Shrubs Total 4
 Dominant Shrubs ALIN2, SYAL
 > 1.5' tall 4
 < 1.5' tall 2
 Graminoids Total 4
 Dominant Graminoids PHAR3
 Graminoids Perennial 4
 Graminoids Annual 0
 Forbs Total 4
 Dominant Forbs IRPS, RUCR, TAVU, RARE3
 Forbs Perennial 4
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 4
 Exotics Annual 2
 Water 15
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 IRPS, TAVU, PHAR3
Other Exotic Plants
 RARE3

Water: 15
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 3
Moss Lichen: 1
Litter: 81

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ALIN2	50	Matrix	GOOD
Veg Community1: disturbed wetland			
Existing Veg2: POBAT-ACMA3-POAL7/SYAL/PHAR3	30	Large patch	FAIR
Veg Community3: disturbed wetland			
Existing Veg3: PHAR3-IRPS	20	Small patch	POOR
Veg Community3: disturbed wetland			

Notes:

Polygon Number

849

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number

850

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number

858

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number

859

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent Pattern

0

Rank

N/A

Veg Community1: N/A

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes:

Polygon Number 864

ParkName:

Riverside

Survey Intensity 2
 Observer PM
 Date 8/30/2008
 Total Vegetation 6
 Trees Total 2
 Dominant Trees POAL7
 emergent 0
 maincanopy 0
 subcanopy 2
 Shrubs Total 2
 Dominant Shrubs SYAL, ALIN2
 > 1.5' tall 2
 < 1.5' tall 1
 Graminoids Total 5
 Dominant Graminoids PHAR3, ELRE4, BRTE, JUNCU
 Graminoids Perennial 5
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs VETH, COCA5, IRPS, CIAR4, RARE3
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 5
 Exotics Perennial 5
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 3
 Logging 0
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 4
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 PHAR3, IRPS, CIVU, CIAR4, TAVU,
Other Exotic Plants

Water: 0
Rock: 0
Talus: 0
Gravel: 3
Bare Ground: 2
Moss Lichen: 0
Litter: 95

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PHAR3-IRPS	50	Matrix	POOR
Veg Community1: disturbed wetland			
Existing Veg2: disturbed field	45	Large patch	POOR
Veg Community3: disturbed/weedy			
Existing Veg3: parking lot	5	Small patch	DEVELO
Veg Community3: developed			

Notes:

Polygon Number 866

ParkName:

Riverside

Survey Intensity 2
 Observer PM
 Date 8/30/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO
 emergent 1
 maincanopy 4
 subcanopy 2
 Shrubs Total 3
 Dominant Shrubs AMAL2, SYAL, PUTR2
 > 1.5' tall 3
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids POBU, PSSP6, BRTE
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs BASA3, LUPIN, LIDAD
 Forbs Perennial 3
 Forbs Annual 3
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 3
 Water 0
 Rock Outcrop 2
 Gravel 5
 Logging 1
 Fire: 0
 Stand Age 2/3
 Agriculture 0
 Livestock 0
 Development 2
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, CESTM

Other Exotic Plants

POBU, BRTE

Water: 0
Rock: 2
Talus: 2
Gravel: 5
Bare Ground: 20
Moss Lichen: 1
Litter: 70

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/PUTR2/PSSP6-POBU-BASA3	100	Matrix	GOOD
Veg Community1: PIPO/PUTR2/PSSP6			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 867

ParkName:

Riverside

Survey Intensity 2
 Observer PM
 Date 8/30/2008
 Total Vegetation 5
 Trees Total 2
 Dominant Trees PIPO, POBAT, ULMUS
 emergent 0
 maincanopy 0
 subcanopy 2
 Shrubs Total 1
 Dominant Shrubs SYAL
 > 1.5' tall 1
 < 1.5' tall 1
 Graminoids Total 5
 Dominant Graminoids THIN6, DAGL, ELRE4, POBU, BRTE, POPR, BRRA2
 Graminoids Perennial 5
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs ECVU, CHJU, PODO4, LIDAD, VETH, MEOF, SIAL2
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 5
 Exotics Perennial 5
 Exotics Annual 3
 Water 0
 Rock Outcrop 0
 Gravel 2
 Logging 1
 Fire: 0
 Stand Age
 Agriculture OLD FIELD
 Livestock 0
 Development 4
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 ECVU, CHJU, VETH, LIDAD, CESTM
Other Exotic Plants
 ELRE4, POBU, BRTE, DAGL, THIN6,

Water: 0
Rock: 0
Talus: 0
Gravel: 2
Bare Ground: 10
Moss Lichen: 0
Litter: 88

Vegetation Types

Percent	Pattern	Rank
100	Matrix	POOR

Existing Veg1: old field
Veg Community1: former agricultural field

Existing Veg2: 0

Veg Community3:

Existing Veg3: 0

Veg Community3:

Notes: OLD FIELD WITH SOME YOUNG PIPO

Polygon Number

868

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number

869

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 881 ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 7/15/2008
 Total Vegetation 4
 Trees Total 2
 Dominant Trees ACER, POBAT, ULMUS, POTR5
 emergent 1
 maincanopy 2
 subcanopy 1
 Shrubs Total 3
 Dominant Shrubs SAEX, CRDO2, PHMA5, ERCO12, TODI, ARUV
 > 1.5' tall 3
 < 1.5' tall 2
 Graminoids Total 4
 Dominant Graminoids AGCR, BRIN2, POA, PHPR3
 Graminoids Perennial 4
 Graminoids Annual 1
 Forbs Total 2
 Dominant Forbs ACMI2, ARUV, POOL, APCA
 Forbs Perennial 2
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 5
 Rock Outcrop 0
 Gravel 20
 Logging 1
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 TAVU, COAR4, CEDI3
Other Exotic Plants
 VETH

Water: 5
Rock: 0
Talus: 75
Gravel: 20
Bare Ground: 0
Moss Lichen: 0
Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: POBAT-ACER/SAEX-CRDO2-ERCO12/BRIN2-	PHPR3	100	Matrix POOR
Veg Community1: river riparian zone			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Big patch of CRDO2; flood area in the Spring, all underwater

Polygon Number 887B ParkName:

Riverside

Survey Intensity 1
 Observer RO, JR, AM, DH
 Date 7/15/2008
 Total Vegetation 4
 Trees Total 2
 Dominant Trees PIPO
 emergent 0
 maincanopy 2
 subcanopy 1
 Shrubs Total 2
 Dominant Shrubs ERCO12, ARUV, ERN12, AMAL2, MAAQ2
 > 1.5' tall 1
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids FEID, PSSP6, ARPU9, HOJU
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LONE4
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 2
 Logging 1
 Fire:
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 6 (roads and trails)
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 CESTM, LIDAD, CHJU
Other Exotic Plants
 TRDU

Water: 0
Rock: 0
Talus: 7
Gravel: 2
Bare Ground: 20
Moss Lichen: 1
Litter: 70

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/ERCO12/FEID-PSSP6-BASA3	80	Matrix	FAIR
Veg Community1: PIPO/FEID Bourgeron and Engelking 1994			G4
Existing Veg2: FEID-CESTM-CHJU (grass and weeds)	20	3	POOR
Veg Community3: disturbed/weedy			
Existing Veg3:	0		
Veg Community3:			

Notes: CESTM infestation along a possible dig; CHJU throughout; weedy along road

Polygon Number 887D

ParkName:

Riverside

Survey Intensity	1	
Observer	JR, DH	
Date	7/13/2008	
Total Vegetation	0	
Trees Total	0	
Dominant Trees	PIPO	
emergent	0	
maincanopy	0	
subcanopy	0	
Shrubs Total	0	
Dominant Shrubs	SANIC5, AMAL2	
> 1.5' tall	0	
< 1.5' tall	0	
Graminoids Total	0	
Dominant Graminoids	BRTE, POBU, PSSP6, BRAR5, FEID	
Graminoids Perennial	0	
Graminoids Annual	0	
Forbs Total	0	
Dominant Forbs	CEDI3, CESTM, POGL9, COAR4, SOCA6, TAOF, TRDU, CIIN,	
Forbs Perennial	0	
Forbs Annual	0	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	5	
Exotics Perennial	5	
Exotics Annual	4	
Water	0	
Rock Outcrop	0	
Gravel	0	
Logging		
Fire:		
Stand Age		
Agriculture		
Livestock		
Development		
Wildlife		
Recreation Severity		
Recreation Type		
Hydrology		

Exotic Species

Noxious Exotic Plants

CEDI3, CESTM, HYPE, LIDAD

Other Exotic Plants

TAOF, TRDU, VIVI, BRTE, POBU

Water:	0
Rock:	0
Talus:	0
Gravel:	0
Bare Ground:	0
Moss Lichen:	0
Litter:	0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: old ag field	100	Matrix	POOR
Veg Community1: disturbed/weedy			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Weeds all over. Old homestead, ranch, ag field, remaining structures, trash, fences, roads, logging.

Polygon Number 887E

ParkName:

Riverside

Survey Intensity 1
 Observer HS, RO, JR, DH
 Date 7/13/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PIPO
 emergent 0
 maincanopy 3
 subcanopy 2
 Shrubs Total 3
 Dominant Shrubs AMAL2, CEVE
 > 1.5' tall 3
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids POBU, BRTE, PSSP6
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 4
 Dominant Forbs APAN2, GAAR, CIIN
 Forbs Perennial 4
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 2
 Exotics Annual 3
 Water 0
 Rock Outcrop 0
 Gravel 11
 Logging 2
 Fire:
 Stand Age 1
 Agriculture 0
 Livestock 6
 Development 2
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE

Other Exotic Plants

POBU, BRTE

Water: 0
Rock: 0
Talus: 7
Gravel: 11
Bare Ground: 4
Moss Lichen: 1
Litter: 77

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2-CEVE/APAN2-GAAR-PSSP6	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: woodland; possible glacial moraine

Polygon Number 887C ParkName:

Riverside

Survey Intensity 1
 Observer RO, JR, DH
 Date 7/13/2008
 Total Vegetation 4
 Trees Total 2
 Dominant Trees PIPO
 emergent 0
 maincanopy 2
 subcanopy 0
 Shrubs Total 1
 Dominant Shrubs CEVE, ERHE2, ERNI2
 > 1.5' tall 0
 < 1.5' tall 1
 Graminoids Total 4
 Dominant Graminoids PSSP6, POBU, ELRE4
 Graminoids Perennial 4
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs CIIN, CEDI3, APAN2
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 10
 Logging 2
 Fire:
 Stand Age 1
 Agriculture 6
 Livestock 4
 Development 6
 Wildlife 3
 Recreation Severity 2
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 CEDI3, CESTM, HYPE, ECVU
Other Exotic Plants
 CIIN, POBU, BRTE, VETH

Water: 0
Rock: 0
Talus: 1
Gravel: 10
Bare Ground: 5
Moss Lichen: 1
Litter: 83

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: CIIN-PSSP6-POBU	100	Matrix	POOR
Veg Community1: disturbed/weedy			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: portions of polygon with natural PIPO woodland, but they constitute small islands under heavy weed influence

Polygon Number**887A****ParkName:****Riverside**

Survey Intensity 1
 Observer JR, DH, RO
 Date 7/14/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO, POTR5, FRLA
 emergent 0
 maincanopy 4
 subcanopy 2
 Shrubs Total 4
 Dominant Shrubs PHLE4, ROSA5, PRVI, ELAN, ACER, AMAL2, PHMA5
 > 1.5' tall 4
 < 1.5' tall 2
 Graminoids Total 0
 Dominant Graminoids PSSP6, BRTE, BRAR5
 Graminoids Perennial 3
 Graminoids Annual 3
 Forbs Total 1
 Dominant Forbs CESTM, VIVI, HEHE, PARTH3
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 4
 Exotics Annual 3
 Water 0
 Rock Outcrop 0
 Gravel 2
 Logging 1
 Fire:
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species**Noxious Exotic Plants**

CESTM, ECVU

Other Exotic Plants

BRTE, POBU, BRAR5, LOTA

Water: 0
Rock: 0
Talus: 0
Gravel: 2
Bare Ground: 3
Moss Lichen: 1
Litter: 94

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: POTR5/CESTM	60	Matrix	POOR
Veg Community1: disturbed/weedy			
Existing Veg2: PIPO/PHMA5-AMAL/POBU-FEID	40	2	FAIR
Veg Community3: PIPO/PHMA5 Williams and others 1995			G2
Existing Veg3:	0		
Veg Community3:			

Notes: PA1 seasonal wet area w/CESTM & other noxious weeds invasion; PA2 eastern chunk of poly

Polygon Number 887F

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 7/13/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO
 emergent 1
 maincanopy 4
 subcanopy 2
 Shrubs Total 3
 Dominant Shrubs AMAL2
 > 1.5' tall 3
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids POBU, BRTE, PSSP6
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs APAN2
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 1
 Fire:
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 CESTM, CEDI3, HYPE, LIDAD
Other Exotic Plants
 POBU, BRTE

Water: 0
Rock: 0
Talus: 0
Gravel: 1
Bare Ground: 1
Moss Lichen: 2
Litter: 96

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/AMAL2-POBU	100	Matrix	POOR
Veg Community1: disturbed/weedy			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: weed infestation; deer hunting platforms

Polygon Number 888

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 8/28/2008
 Total Vegetation 5
 Trees Total 2
 Dominant Trees PIPO, ACER
 emergent 0
 maincanopy 0
 subcanopy 2
 Shrubs Total 4
 Dominant Shrubs SAEX, CHDO, ARUV, AMAL2, TORY
 > 1.5' tall 4
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids BRIN2, ELRE4, PANIC
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 4
 Dominant Forbs ARLU, CHGL13, HYPE, LIDAD, CESTM, EUPHO, COAR4, SOCA6,
 Forbs Perennial 4
 Forbs Annual 4
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 4
 Exotics Annual 3
 Water 5
 Rock Outcrop 0
 Gravel 3
 Logging 0
 Fire: 0
 Stand Age 0
 Agriculture 0
 Livestock 0
 Development 5
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 CHJU, LIDAD IRPS, CESTM, BEIN2
Other Exotic Plants
 ZESE80, HYPE, COAR4, TAVU

Water: 5
Rock: 0
Talus: 7
Gravel: 3
Bare Ground: 10
Moss Lichen: 0
Litter: 75

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ACSA2-ZESE80/SAEX-TORY/ARLU	100	Matrix	FAIR
Veg Community1: river riparian zone			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			
Notes: COBBLE SUBSTRATE			

Polygon Number 890

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

0

DEVELO

Veg Community1: developed

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes: pipeline to sewage treatment plant

Polygon Number 897

ParkName:

Riverside

Survey Intensity 1
 Observer RO, JR, AM, DH
 Date 7/17/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 2
 maincanopy 4
 subcanopy 3
 Shrubs Total 3
 Dominant Shrubs ARUV, AMAL2, MAAQ2
 > 1.5' tall 2
 < 1.5' tall 3
 Graminoids Total 3
 Dominant Graminoids PSSP6, CAGE2, POBU
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, APAN2, LONE4
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 1
 Ferns Evergreen 0
 Ferns Deciduous 1
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 1
 Rock Outcrop 2
 Gravel 5
 Logging 1
 Fire: SOME EVIDENCE,
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE,
Other Exotic Plants
 POBU, TAOF, TRDU

Water: 1
Rock: 2
Talus: 8
Gravel: 5
Bare Ground: 1
Moss Lichen: 5
Litter: 78

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/BASA3-APAN2- LONE4	98	Matrix	GOOD
Veg Community1: PSME/PSSP6 Williams and others 1995			G4
Existing Veg2: SRRZ	2	linear	FAIR
Veg Community3: river riparian zone			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found here

Polygon Number 900

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH, AM
 Date 8/5/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 1
 maincanopy 4
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs AMAL2, MAAQ2
 > 1.5' tall 2
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids POBU, PSSP6, KOMA, DAUN
 Graminoids Perennial 3
 Graminoids Annual 0
 Forbs Total 3
 Dominant Forbs LONE4, BASA3, PHCA7, ARCO5, LIRU4, CAGE2
 Forbs Perennial 3
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 0
 Water 1
 Rock Outcrop 0
 Gravel 2
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

ECVU, LIDAD, CHJU

Other Exotic Plants

POBU

Water: 1
Rock: 0
Talus: 10
Gravel: 2
Bare Ground: 1
Moss Lichen: 3
Litter: 83

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/POBU-PSSP6-BASA3	98	Matrix	GOOD
Veg Community1: PSME/PSSP6 Williams and others 1995			G4
Existing Veg2: SRRZ	2	linear	FAIR
Veg Community3: river riparian zone			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found here

Polygon Number 901

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM, JR
 Date 7/16/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO
 emergent 2
 maincanopy 4
 subcanopy 2
 Shrubs Total 1
 Dominant Shrubs AMAL2, PHLE4, ROWO, TODI, SALIX, CRDO2
 > 1.5' tall 0
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids POBU, BRTE, ARPU9, POPR, DAGL
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs LONE4, BASA3, LUSE4, APAN2, ARLU
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 Exotics Total 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 2
 Rock Outcrop 0
 Gravel 2
 Logging 1
 Fire: YES - 14 YRS
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6 (roads, trails,
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

POCU6, LIDAD, TRDU, CHJU, ECVU,

Other Exotic Plants

TAVU, BRTE, TAOF, POBU

Water: 2
Rock: 0
Talus: 5
Gravel: 2
Bare Ground: 3
Moss Lichen: 3
Litter: 85

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-BASA3	93	Matrix	GOOD
Veg Community1: PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg2: developed	5	6	OWNERS
Veg Community3: ownership issue			
Existing Veg3: SRRZ	2	6	FAIR
Veg Community3: river riparian zone			

Notes: ANPA4 found here; Northwest "handle" not part of park according to Riverside State Park Multi-use Trails Map

Polygon Number

902A

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 902B

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ns	100	Matrix	OWNERS

Veg Community1: ownership issue

Existing Veg2:	0		
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Veg Community3:

Existing Veg3:	0		
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Veg Community3:

Notes: houses

Polygon Number

903A

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number

903B

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 905

ParkName:

Riverside

Survey Intensity 2
 Observer JR, DH
 Date 8/7/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PIPO, PSME
 emergent 2
 maincanopy 5
 subcanopy 3
 Shrubs Total 4
 Dominant Shrubs PHMA5, AMAL2, ARUV, SYAL, ERCO12, ERHE2
 > 1.5' tall 4
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids CARU, POBU, BRTE
 Graminoids Perennial 2
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs BASA3, CESTM, ACMI2
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 3
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 5
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

CESTM, CHJU, HYPE

Other Exotic Plants

POBU, BRTE

Water: 0
Rock: 0
Talus: 7
Gravel: 3
Bare Ground: 10
Moss Lichen: 11
Litter: 69

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/PHMA5-SYAL-AMAL2/BASA3	100	Matrix	FAIR
Veg Community1: PSME/PHMA5 Williams and others 1995			G5
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: some very old PIPO, weedy mostly in open unforested areas

Polygon Number 906

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/7/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 2
 maincanopy 4
 subcanopy 3
 Shrubs Total 4
 Dominant Shrubs ARUV, SYAL, PHMA5, AMAL2, ERCO12
 > 1.5' tall 4
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids POBU, CARU, HECO26
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 2
 Dominant Forbs BASA3, LUAR3
 Forbs Perennial 2
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 7
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 5
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, CESTM

Other Exotic Plants

POBU

Water: 0
Rock: 0
Talus: 5
Gravel: 7
Bare Ground: 10
Moss Lichen: 3
Litter: 75

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/ARUV-SYAL-PHMA5/BASA3-POBU	80		Matrix GOOD
Veg Community1: PSME/PHMA5 Williams and others 1995			G5
Existing Veg2: PIPO/ERCO12-AMAL2/BASA3-LUSE4-POBU	20	linear	FAIR
Veg Community3: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found here

Polygon Number 907

ParkName:

Riverside

Survey Intensity 1
 Observer GW
 Date 8/27/2008
 Total Vegetation 6
 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 6
 Dominant Forbs MESA
 Forbs Perennial 6
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 6
 Exotics Perennial 6
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 0
 Agriculture 1
 Livestock 0
 Development 5
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

MESA

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 10
Moss Lichen: 0
Litter: 90

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: MESA	100	Matrix	POOR
Veg Community1: agricultural field			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: FENCED OFF WITH BARB WIRE, HOUSE IN DISTANCE; PRIVATE?

Polygon Number 908

ParkName:

Riverside

Survey Intensity	2	
Observer	GW	
Date	8/27/2008	
Total Vegetation	5	
Trees Total	4	
Dominant Trees		
emergent	1	
maincanopy	4	
subcanopy	3	
Shrubs Total	1	
Dominant Shrubs	AMAL2	
> 1.5' tall	1	
< 1.5' tall	1	
Graminoids Total	3	
Dominant Graminoids	KOMA, POSE, POPR, POBU, PSSP6, BRRA2, BRTE, ANPA4	
Graminoids Perennial	3	
Graminoids Annual	2	
Forbs Total	2	
Dominant Forbs	CESTM, LUPIN ACMI2, LASE, ANPA4	
Forbs Perennial	2	
Forbs Annual	1	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	3	
Exotics Perennial	3	
Exotics Annual	2	
Water	0	
Rock Outcrop	0	
Gravel	0	
Logging	0	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	5	
Wildlife	3	
Recreation Severity	1	
Recreation Type	1	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

CHJU, CESTM, LIDAD

Other Exotic Plants

POBU, BRTE, LASE

Water:	0
Rock:	0
Talus:	0
Gravel:	0
Bare Ground:	10
Moss Lichen:	1
Litter:	89

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-BRRA2	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: FOREST W/ OLD TREES AND REGEN PATCHES; This is similar to 912 done today - only difference is ANPA4

Polygon Number

910C

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes: ORV area

Percent Pattern Rank

0 N/A

0

0

Polygon Number 910A

ParkName:

Riverside

Survey Intensity 2
 Observer JR, DH
 Date 8/7/2008
 Total Vegetation 3
 Trees Total 3
 Dominant Trees PIPO
 emergent 0
 maincanopy 1
 subcanopy 3
 Shrubs Total 3
 Dominant Shrubs ERNA10, SADO4
 > 1.5' tall 1
 < 1.5' tall 3
 Graminoids Total 2
 Dominant Graminoids BRTE
 Graminoids Perennial 1
 Graminoids Annual 1
 Forbs Total 2
 Dominant Forbs CHJU, STMI13
 Forbs Perennial 2
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 7
 Logging 1
 Fire: 0
 Stand Age 1
 Agriculture
 Livestock 0
 Development 5
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

CHJU, LIDAD

Other Exotic Plants

BRTE, TRDU

Water: 0
Rock: 0
Talus: 3
Gravel: 7
Bare Ground: 75
Moss Lichen: 0
Litter: 15

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/ERNA10	100	Matrix	FAIR
Veg Community1: disturbed/weedy			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Very sandy hillside

Polygon Number 910B

ParkName:

Riverside

Survey Intensity	1	
Observer	GW	
Date	8/27/2008	
Total Vegetation	4	
Trees Total	1	
Dominant Trees	PIPO	
emergent	0	
maincanopy	0	
subcanopy	1	
Shrubs Total	2	
Dominant Shrubs	SAEX, ROWO, ERNA10, ERNI2	
> 1.5' tall	2	
< 1.5' tall	1	
Graminoids Total	3	
Dominant Graminoids	POBU, BRRA2, BRTE	
Graminoids Perennial	3	
Graminoids Annual	2	
Forbs Total	4	
Dominant Forbs	CESTM, EQLA, EUES, CHJU, LIDAD, ARLU, SAOF4, SAKA, GRNA,	
Forbs Perennial	4	
Forbs Annual	2	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	4	
Exotics Perennial	4	
Exotics Annual	2	
Water	0	
Rock Outcrop	0	
Gravel	0	
Logging	0	
Fire:	0	
Stand Age	1	
Agriculture	0	
Livestock	0	
Development	5	
Wildlife	3	
Recreation Severity	1	
Recreation Type	1	
Hydrology	1	

Exotic Species

Noxious Exotic Plants
CESTM, EUES, CHJU, LIDAD, TRTE
Other Exotic Plants
SAKA, BRRA2, SIAL2, SAOF4

Water:	0
Rock:	0
Talus:	0
Gravel:	0
Bare Ground:	40
Moss Lichen:	0
Litter:	60

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ERNA10/LIDAD-CHJU-CESTM	100	Matrix	POOR
Veg Community1: disturbed/weedy			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ORV USE ON PARTS; SOME RIPARIAN VEG.

Polygon Number 911

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/7/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PIPO
 emergent 0
 maincanopy 3
 subcanopy 0
 Shrubs Total 0
 Dominant Shrubs 0
 > 1.5' tall 0
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids BRTE, POBU
 Graminoids Perennial 3
 Graminoids Annual 3
 Forbs Total 3
 Dominant Forbs CESTM, EUES
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 3
 Logging 1
 Fire: possibly
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 1
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants

CESTM, EUES

Other Exotic Plants

POBU, BRTE

Water: 0
Rock: 0
Talus: 0
Gravel: 3
Bare Ground: 60
Moss Lichen: 2
Litter: 35

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: <small>disturbed/PIPO</small>	100	Matrix	POOR
Veg Community1: <small>disturbed/weedy</small>			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Similar to 995 with more trees. ORV tracks

Polygon Number 912

ParkName:

Riverside

Survey Intensity 2
 Observer GW
 Date 8/27/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees
 emergent 1
 maincanopy 4
 subcanopy 3
 Shrubs Total 1
 Dominant Shrubs AMAL2
 > 1.5' tall 1
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids KOMA, POSE, POPR, POBU, PSSP6, BRRA2, BRTE
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 2
 Dominant Forbs CESTM, LUPIN ACMI2, LASE
 Forbs Perennial 2
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 0
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 5
 Wildlife 3
 Recreation Severity 1
 Recreation Type 1
 Hydrology 1

Exotic Species

Noxious Exotic Plants

CHJU, CESTM, LIDAD

Other Exotic Plants

POBU, BRTE, LASE

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 10
Moss Lichen: 1
Litter: 89

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-BRRA2	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: FOREST W/ OLD TREES AND REGEN PATCHES

Polygon Number

913

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

0

N/A

Veg Community1: N/A

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes: boundary issue? accessibility question

Polygon Number 914

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns Percent 0 Pattern Rank N/A

Veg Community1: N/A

Existing Veg2: 0

Veg Community3:

Existing Veg3: 0

Veg Community3:

Notes: boundary issue? accessibility question

Polygon Number 915

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/6/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO
 emergent 0
 maincanopy 4
 subcanopy 4
 Shrubs Total 1
 Dominant Shrubs AMAL2, ERNI2, ERCO12
 > 1.5' tall 1
 < 1.5' tall 0
 Graminoids Total 4
 Dominant Graminoids POBU, ARPU9, DAUN
 Graminoids Perennial 4
 Graminoids Annual 0
 Forbs Total 3
 Dominant Forbs LONE4, MEAL6, GAAR, LOMAT
 Forbs Perennial 3
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 4
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 10
 Logging 1
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, CHJU

Other Exotic Plants

POBU

Water: 0
Rock: 0
Talus: 8
Gravel: 10
Bare Ground: 3
Moss Lichen: 3
Litter: 76

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/ARPU9/GAAR-CHJU	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: a lot of weeds but has lots of native grasses (if walked through earlier in the year is would rank better)

Polygon Number 916

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/6/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO
 emergent 1
 maincanopy 4
 subcanopy 2
 Shrubs Total 2
 Dominant Shrubs ARUV, AMAL2
 > 1.5' tall 1
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids PSSP6, POBU, HECO26, BRTE
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs BASA3, LUSE4
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 1
 Fire: 0
 Stand Age 1-2
 Agriculture 0
 Livestock 0
 Development 5
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD,

Other Exotic Plants

POBU

Water: 0
Rock: 0
Talus: 3
Gravel: 1
Bare Ground: 3
Moss Lichen: 5
Litter: 88

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/BASA3-PSSP6	100	Matrix	GOOD
Veg Community1: PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 917

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM, JR
 Date 7/16/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO
 emergent 2
 maincanopy 4
 subcanopy 2
 Shrubs Total 2
 Dominant Shrubs AMAL2, PHLE4, ROWO, TODI, SALIX, CRDO2
 > 1.5' tall 1
 < 1.5' tall 2
 Graminoids Total 4
 Dominant Graminoids POBU, BRTE, ARPU9, POPR, DAGL
 Graminoids Perennial 4
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs LONE4, BASA3, LUSE4, APAN2, ARLU
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 2
 Logging 1
 Fire: YES - 14 YRS
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6 (roads, trails,
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 POCU6, LIDAD, TRDU, CHJU, ECVU,
Other Exotic Plants
 TAVU, BRTE, TAOF, POBU

Water: 0
Rock: 0
Talus: 5
Gravel: 2
Bare Ground: 3
Moss Lichen: 3
Litter: 87

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-BASA3	100	Matrix	GOOD
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found here; Not in park according to Riverside State Park Multi-use Trails Map

Polygon Number 918

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM, JR
 Date 7/16/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO
 emergent 2
 maincanopy 4
 subcanopy 2
 Shrubs Total 2
 Dominant Shrubs AMAL2, PHLE4, ROWO, TODI, SALIX, CRDO2
 > 1.5' tall 1
 < 1.5' tall 2
 Graminoids Total 4
 Dominant Graminoids POBU, BRTE, ARPU9, POPR, DAGL
 Graminoids Perennial 4
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs LONE4, BASA3, LUSE4, APAN2, ARLU
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 2
 Logging 1
 Fire: YES - 14 YRS
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6 (roads, trails,
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

POCU6, LIDAD, TRDU, CHJU, ECVU,

Other Exotic Plants

TAVU, BRTE, TAOF, POBU

Water: 0
Rock: 0
Talus: 5
Gravel: 2
Bare Ground: 3
Moss Lichen: 3
Litter: 87

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-BASA3	100	Matrix	GOOD
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found here; Not in park according to Riverside State Park Multi-use Trails Map

Polygon Number 926A

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH, AM
 Date 8/5/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PSME, PIPO
 emergent 1
 maincanopy 4
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs AMAL2, ARUV
 > 1.5' tall 1
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids FEID, BRIN2, POBU, HOJU, BRTE
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs BASA3, LONE4, PLPA2, ACMI2, APAN2
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

Other Exotic Plants
 LIRU4, POBU, BRTE

Water: 0
Rock: 0
Talus: 1
Gravel: 1
Bare Ground: 5
Moss Lichen: 2
Litter: 91

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/FEID-POBU-PLPA2	70	Matrix	GOOD
Veg Community1: PSME/FEID			
Existing Veg2: PSME-PIPO/ARUV-AMAL2	30	Large patch	GOOD
Veg Community3: PSME/PSSP6		Williams and others 1995	G4
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found

Polygon Number**926B****ParkName:****Riverside**

Survey Intensity	1
Observer	JR, AM, DH
Date	8/5/2008
Total Vegetation	5
Trees Total	4
Dominant Trees	PSME, PIPO, POTR5, POBAT
emergent	1
maincanopy	4
subcanopy	2
Shrubs Total	3
Dominant Shrubs	PHMA5, PHLE4, AMAL2, ACGLD4, ERCO12, MAAQ2
> 1.5' tall	3
< 1.5' tall	2
Graminoids Total	3
Dominant Graminoids	POBU, BRTE, HECO26, PSSP6
Graminoids Perennial	3
Graminoids Annual	2
Forbs Total	4
Dominant Forbs	CHJU, VETH, TORY, CESTM
Forbs Perennial	4
Forbs Annual	2
Ferns Total	0
Ferns Evergreen	0
Ferns Deciduous	0
ExoticsTotal	4
Exotics Perennial	4
Exotics Annual	2
Water	0
Rock Outcrop	25
Gravel	10
Logging	1
Fire:	0
Stand Age	5
Agriculture	0
Livestock	0
Development	3
Wildlife	3
Recreation Severity	3
Recreation Type	3
Hydrology	1

Exotic Species**Noxious Exotic Plants**

CEDI3, CESTM, LIDAD, PORE5, ECVU,

Other Exotic Plants

VETH, POBU, BRTE

Water:	0
Rock:	25
Talus:	20
Gravel:	10
Bare Ground:	10
Moss Lichen:	10
Litter:	25

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/PHMA5-PHLE4-TORY/POBU	60	Matrix	POOR
Veg Community1: PSME/PHMA5 Williams and others 1995			G5
Existing Veg2: talus	25	Large patch	GOOD
Veg Community3: talus			
Existing Veg3: PSME-PIPO-POTR5/PHMA5-PHLE4-MAAQ2/POBU-HECO26			15 FAIR
Veg Community3: PSME/PHMA5 Williams and others 1995			G5

Notes: Old railway bed; many noxious weeds

Polygon Number 927

ParkName:

Riverside

Survey Intensity 1
 Observer JR, AM, DH
 Date 8/5/2008
 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
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0
 Rock: 0
 Talus: 0
 Gravel: 0
 Bare Ground: 0
 Moss Lichen: 0
 Litter: 0

Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: <small>disturbed/developed</small>	100	Matrix	DEVELO
Veg Community1: <small>developed</small>			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Powerline corridor

Polygon Number 928

ParkName:

Riverside

Survey Intensity 1
 Observer JR, AM, DH
 Date 8/5/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PIPO, PSME
 emergent 1
 maincanopy 3
 subcanopy 2
 Shrubs Total 2
 Dominant Shrubs AMAL2, POBU, PSSP6
 > 1.5' tall 2
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids FEID, POBU, PSSP6
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs EUMY2, PHCA7
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 2
 Gravel 5
 Logging 1
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

IRPS
 Other Exotic Plants
 VETH, POBU, BRTE

Water: 0
Rock: 2
Talus: 20
Gravel: 5
Bare Ground: 3
Moss Lichen: 10
Litter: 60

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/AMAL2/FEID-EUMY2-PHCA7	97	Matrix	GOOD
Veg Community1: PSME/FEID			
Existing Veg2: PIPO-PSME/PHMA5-AMAL2/CAGE2	3	Small patch	GOOD
Veg Community3: PSME/PHMA5 Williams and others 1995			G5
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 929

ParkName:

Riverside

Survey Intensity 1
 Observer JR, AM, DH
 Date 8/5/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PIPO, PSME
 emergent 1
 maincanopy 3
 subcanopy 2
 Shrubs Total 2
 Dominant Shrubs AMAL2, PHMA5, ERNI2
 > 1.5' tall 2
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids FEID, POBU, PSSP6
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs PHCA7, EUMY2
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 2
 Gravel 5
 Logging 1
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

HYPE, IRPS

Other Exotic Plants

VETH, POBU, BRTE

Water: 0
Rock: 2
Talus: 20
Gravel: 5
Bare Ground: 3
Moss Lichen: 10
Litter: 60

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/AMAL2/FEID-EUMY2-PHCA7	70	Matrix	GOOD
Veg Community1: PSME/FEID			
Existing Veg2: PSME-PIPO/PHMA5-AMAL2/CAGE2	15	Small patch	GOOD
Veg Community3: PSME/PHMA5 Williams and others 1995			G5
Existing Veg3: private property	15	Small patch	OWNERS
Veg Community3: ownership issue			

Notes:

Polygon Number 937

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 7/13/2008
 Total Vegetation 0
 Trees Total 0
 Dominant Trees PIPO
 emergent 0
 maincanopy 0
 subcanopy 0
 Shrubs Total 0
 Dominant Shrubs AMAL2
 > 1.5' tall 0
 < 1.5' tall 0
 Graminoids Total 0
 Dominant Graminoids ELRE4, POBU, BRTE, PSSP6
 Graminoids Perennial 0
 Graminoids Annual 0
 Forbs Total 0
 Dominant Forbs see weeds, CIIN
 Forbs Perennial 0
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 4
 Exotics Annual 3
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Exotic Species

Noxious Exotic Plants
 CESTM, CED13, ECVU, HYPE
Other Exotic Plants
 POBU, BRTE, VETH, ELRE4

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 0
Moss Lichen: 0
Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: <small>developed</small>	100	Matrix	DEVELO
Veg Community1: <small>developed</small>			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Parking lot, facilities

Polygon Number 940

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH, RO
 Date 7/14/2008
 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
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0
 Rock: 0
 Talus: 0
 Gravel: 0
 Bare Ground: 0
 Moss Lichen: 0
 Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: <small>developed</small>	100	Matrix	DEVELO
Veg Community1: <small>developed</small>			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: houses, dump, weedy infestations

Polygon Number 946

ParkName:

Riverside

Survey Intensity 1
 Observer HS, RO, JR, DH
 Date 7/13/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO
 emergent 0
 maincanopy 4
 subcanopy 2
 Shrubs Total 2
 Dominant Shrubs AMAL2
 > 1.5' tall 2
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids POBU, BRTE, PSSP6
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 4
 Dominant Forbs APAN2, CIIN
 Forbs Perennial 4
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 2
 Exotics Annual 3
 Water 0
 Rock Outcrop 0
 Gravel 3
 Logging 2
 Fire:
 Stand Age 1
 Agriculture 0
 Livestock 6
 Development 2
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE

Other Exotic Plants

POBU, BRTE

Water: 0
Rock: 0
Talus: 2
Gravel: 3
Bare Ground: 1
Moss Lichen: 3
Litter: 91

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/APAN2-POBU-PSSP6	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: forest

Polygon Number

949

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent Pattern

0

Rank

N/A

Veg Community1: N/A

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes:

Polygon Number 950

ParkName:

Riverside

Survey Intensity 1
 Observer RO, JR, DH
 Date 7/14/2008
 Total Vegetation 5
 Trees Total 2
 Dominant Trees PSME, PIPO, POTR5
 emergent 0
 maincanopy 2
 subcanopy 1
 Shrubs Total 5
 Dominant Shrubs PHMA5, SYAL, CEVE, AMAL2, ROSA5, HODI, ARUV
 > 1.5' tall 5
 < 1.5' tall 3
 Graminoids Total 3
 Dominant Graminoids PSSP6, FEID, CARU, ELGL, CARU, BRTE
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 2
 Dominant Forbs HECY2, BASA3, HYPE, CESTM, GAAR, CARO2
 Forbs Perennial 2
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 5
 Gravel 5
 Logging 1
 Fire: YES-SOME
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 HYPE, CEDI3, LIDAD, CESTM
Other Exotic Plants
 BRTE, ELRE4, NECA2

Water: 0
Rock: 5
Talus: 1
Gravel: 5
Bare Ground: 1
Moss Lichen: 1
Litter: 87

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PSME/PHMA5-AMAL2-SYAL/PSSP6-FEID	100	Matrix	GOOD
Veg Community1: PSME/PHMA5 Williams and others 1995			G5
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: GARBAGE-OLD METAL, PLASTIC IN PILE NEAR HOUSES; EDGE EFFECTS; VERY DENSE

Polygon Number 951

ParkName:

Riverside

Survey Intensity 1
 Observer DH, RO
 Date 7/14/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PIPO, PSME
 emergent 1
 maincanopy 3
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs AMAL2
 > 1.5' tall 1
 < 1.5' tall 1
 Graminoids Total 2
 Dominant Graminoids POBU, PSSP6, BRTE
 Graminoids Perennial 2
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs LONE4, BASA3, LUSE4, GAAR, APAN2
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 2
 Fire: OLD FIRE SCARS
 Stand Age 5
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 CED13, CESTM, HYPE
Other Exotic Plants
 POBU, BRTE, VIVI, CIIN

Water: 0
Rock: 0
Talus: 0
Gravel: 1
Bare Ground: 1
Moss Lichen: 5
Litter: 93

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/APAN2/LONE4-BASA3-POBU	100	Matrix	FAIR
Veg Community1: PSME/PSSP6 Williams and others 1995			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ENCROACHMENT OF WEEDS AT EDGE, BUT INTERIOR RESISTANT

Polygon Number 952 ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 7/15/2008
 Total Vegetation 4
 Trees Total 2
 Dominant Trees ACER, POBAT, ULMUS, POTR5
 emergent 1
 maincanopy 2
 subcanopy 1
 Shrubs Total 3
 Dominant Shrubs SAEX, CRDO2, PHMA5, ERCO12, TODI, ARUV
 > 1.5' tall 3
 < 1.5' tall 2
 Graminoids Total 4
 Dominant Graminoids AGCR, BRIN2, POA, PHPR3
 Graminoids Perennial 4
 Graminoids Annual 1
 Forbs Total 2
 Dominant Forbs ACMI2, POOL, APCA
 Forbs Perennial 2
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 5
 Rock Outcrop 0
 Gravel 20
 Logging 1
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 TAVU, COAR4, CEDI3
Other Exotic Plants
 VETH

Water: 5
Rock: 0
Talus: 75
Gravel: 20
Bare Ground: 0
Moss Lichen: 0
Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: POBAT-ACER/SAEX-CRDO2-ERCO12/BRIN2-	PHPR3	100	Matrix POOR
Veg Community1: river riparian zone			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Big patch of CRDO2; flood area in the Spring, all underwater

Polygon Number 955B ParkName:

Survey Intensity 1 Riverside

Observer JR, DH
Date 7/12/2008

Total Vegetation 4
Trees Total 4
Dominant Trees PIPO
emergent 0
maincanopy 3
subcanopy 3
Shrubs Total 1
Dominant Shrubs APAN2, AMAL2
> 1.5' tall 0
< 1.5' tall 1
Graminoids Total 3
Dominant Graminoids PSSP6, FEID, POBU
Graminoids Perennial 3
Graminoids Annual 2
Forbs Total 2
Dominant Forbs BASA3, LONE4, LUSE4, ANPA4
Forbs Perennial 2
Forbs Annual 1
Ferns Total 0
Ferns Evergreen 0
Ferns Deciduous 0
ExoticsTotal 3
Exotics Perennial 2
Exotics Annual 2
Water 1
Rock Outcrop 0

Exotic Species

Noxious Exotic Plants
 TRDU, CESTM, LIDAD, TAOF
Other Exotic Plants
 POBU

Gravel 5
Logging 2-3
Fire: RECENT BURN/
Stand Age 2
Agriculture 0
Livestock 0
Development 6
Wildlife 3
Recreation Severity 3
Recreation Type 4
Hydrology 1

Water: 1
Rock: 0
Talus: 3
Gravel: 5
Bare Ground: 20
Moss Lichen: 1
Litter: 70

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/PSSP6-BASA3	50	Matrix	FAIR
Veg Community1: PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg2: PIPO (+ litter)	35	Scattered, more	POOR
Veg Community3: disturbed/weedy			
Existing Veg3: developed/disturbed	15	Clumped,	DEVELO
Veg Community3: developed			

Notes: FOREST THINNING; LIVESTOCK CORRAL, SIGNS OF PASTURING; HORSE TRAILS; STRUCTURES(OUTHOUSE); OLD HOMESTEAD FENCE; ELECTRIC BOX NEAR ROAD

Polygon Number 955A

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 7/12/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 0
 maincanopy 4
 subcanopy 2
 Shrubs Total 2
 Dominant Shrubs AMAL2, ARUV
 > 1.5' tall 1
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids PSSP6, POBU
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs BASA3, LUSE4, LIRU, GAAR, LUAR3
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 1
 Fire: NONE
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 HYPE, LIDAD, CEDI3, CESTM
Other Exotic Plants
 POBU, TRDU, BRTE

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 1
Moss Lichen: 1
Litter: 98

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/PSSP6-BASA3	100	Matrix	GOOD
Veg Community1: PSME/PSSP6	Williams and others 1995		G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Disturbed strip - old trail

Polygon Number 956

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 7/12/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 2
 maincanopy 4
 subcanopy 2
 Shrubs Total 2
 Dominant Shrubs AMAL2
 > 1.5' tall 1
 < 1.5' tall 1
 Graminoids Total 2
 Dominant Graminoids ACOC3, CARU, PSSP6
 Graminoids Perennial 2
 Graminoids Annual 0
 Forbs Total 3
 Dominant Forbs BASA3, LONE4, LUSE4, ACMI2, ANPA4, GAAR, LUAR3
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 1
 Exotics Perennial 1
 Exotics Annual 1
 Water 4
 Rock Outcrop 0
 Gravel 1
 Logging 1
 Fire:
 Stand Age 3
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

CESTM, HYPE,

Other Exotic Plants

POBU, TRDU

Water: 4
Rock: 0
Talus: 9
Gravel: 1
Bare Ground: 1
Moss Lichen: 5
Litter: 80

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/POBU-BASA3-LONE4	95	Matrix	GOOD
Veg Community1: PSME/PSSP6 Williams and others 1995			G4
Existing Veg2: SRRZ	5	linear	FAIR
Veg Community3: river riparian zone			
Existing Veg3:	0		
Veg Community3:			

Notes: PATCHES OF PIPO/YOUNG PSME; NOT MUCH UNDER GROWTH

Polygon Number 958

ParkName:

Riverside

Survey Intensity 1
 Observer JR, RO, DH
 Date 7/13/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO
 emergent 2
 maincanopy 3
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs ARUV, AMAL2
 > 1.5' tall 2
 < 1.5' tall 2
 Graminoids Total 2
 Dominant Graminoids PSSP6, POBU, FEID, FEOV
 Graminoids Perennial 2
 Graminoids Annual 0
 Forbs Total 3
 Dominant Forbs LONE4, BASA3, PECO6
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 2
 Fire: 15-20 YEARS
 Stand Age 5
 Agriculture 0
 Livestock 0
 Development 0
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

CED13

Other Exotic Plants

POBU

Water: 0
Rock: 0
Talus: 5
Gravel: 1
Bare Ground: 1
Moss Lichen: 1
Litter: 92

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/ARUV/LONE4-BASA3	100	Matrix	GOOD
Veg Community1: PSME/PSSP6	Williams and others 1995		G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found near center

Polygon Number 961

ParkName:

Riverside

Survey Intensity 1
 Observer RO, JR,DH
 Date 7/14/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO
 emergent 1
 maincanopy 4
 subcanopy 2
 Shrubs Total 3
 Dominant Shrubs CEVE, ARUV
 > 1.5' tall 3
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids PSSP6, FEID, ELRE4
 Graminoids Perennial 3
 Graminoids Annual 0
 Forbs Total 3
 Dominant Forbs CESTM, PECO6, POGRF, POGL9, APAN2
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 1
 Fire: YES
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 CESTM, CEDI3, HYPE
Other Exotic Plants

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 2
Moss Lichen: 1
Litter: 97

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/CEVE-ARUV/CESTM-PSSP6-APAN2	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: CHECK TO LUMP WITH 946; CUT OFF ARM AND ADD TO 887

Polygon Number 962

ParkName:

Riverside

Survey Intensity 1
 Observer RO, JR, AM, DH
 Date 7/15/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PSME, PIPO, JUNIP
 emergent 1
 maincanopy 4
 subcanopy 2
 Shrubs Total 5
 Dominant Shrubs PHMA5, AMAL2, PRVI, LOTA
 > 1.5' tall 5
 < 1.5' tall 3
 Graminoids Total 3
 Dominant Graminoids FEID, PSSP6, THIN6
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, MAST4, ACMI2
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 1
 Ferns Evergreen 0
 Ferns Deciduous 1
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 1
 Gravel 5
 Logging 1
 Fire: probably
 Stand Age 5
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 HYPE, LIDAD, CEDI3, CHJU
Other Exotic Plants
 POBU

Water: 0
Rock: 1
Talus: 1
Gravel: 5
Bare Ground: 1
Moss Lichen: 2
Litter: 90

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PSME/PHMA5-AMAL2-PRVI/MAST4-FEID	100	Matrix	GOOD
Veg Community1: PSME/PHMA5 Williams and others 1995			G5
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number

963

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number 966

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 7/11/2008
 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
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 0
 Exotics Perennial 0
 Exotics Annual 0
 Water 0
 Rock Outcrop 0

Gravel 0

Logging
 Fire:
 Stand Age
 Agriculture
 Livestock
 Development
 Wildlife
 Recreation Severity
 Recreation Type
 Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0
 Rock: 0
 Talus: 0
 Gravel: 0
 Bare Ground: 0
 Moss Lichen: 0
 Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: developed	100	Matrix	DEVELO
Veg Community1: developed			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Sewage treatment plant and road

Polygon Number

967

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes: boundary issue?

Percent Pattern Rank

0 N/A

0

0

Polygon Number

968

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes: boundary issue?

Percent Pattern Rank

0 N/A

0

0

Polygon Number

969

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes: boundary issue?

Percent Pattern Rank

0 N/A

0

0

Polygon Number 970

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ns	0		N/A
Veg Community1: N/A			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: adjacent to water treatment plant

Polygon Number

972

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

0

N/A

Veg Community1: N/A

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes: adjacent to sewage treatment plant

Polygon Number 973

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent

Pattern

Rank

0

OWNERS

Veg Community1: ownership issue

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes: houses

Polygon Number **974B** **ParkName:**

Survey Intensity 1 **Riverside**

Observer GW

Date 8/28/2008

Total Vegetation 6

Trees Total 4

Dominant Trees PSME, PIPO

emergent 0

maincanopy 3

subcanopy 3

Shrubs Total 3

Dominant Shrubs SYAL, PHLE4, AMAL2, ARUV

> 1.5' tall 3

< 1.5' tall 1

Graminoids Total 3

Dominant Graminoids POBU, CARU, ACOC3

Graminoids Perennial 3

Graminoids Annual 0

Forbs Total 3

Dominant Forbs ANPA4, LUPIN, PLPA2

Forbs Perennial 3

Forbs Annual 1

Ferns Total 0

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 1

Exotics Perennial 1

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging 0

Fire: 0

Stand Age 2

Agriculture 0

Livestock 0

Development 0

Wildlife 3

Recreation Severity 3

Recreation Type 3

Hydrology 1

Exotic Species

Noxious Exotic Plants

CHJU

Other Exotic Plants

Water: 0
Rock: 0
Talus: 5
Gravel: 0
Bare Ground: 5
Moss Lichen: 0
Litter: 90

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/SYAL/POBU	100	Matrix	GOOD
Veg Community1: PSME/SYAL		Daubenmire and Daubenmire 1984	G5
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: TYPICAL FOREST W/ SAME EFFECTS OF FIRE , VERY FEW WEEDS

Polygon Number

974A

ParkName:

Riverside

Survey Intensity 1
Observer JR, DH
Date 7/11/2008
Total Vegetation 0
Trees Total 0
Dominant Trees PIPO, PSME, ULMUS
emergent 0
maincanopy 0
subcanopy 0
Shrubs Total 0
Dominant Shrubs PHLE4, AMAL2, RHGL, PRVI, RICE, ARUV, SPBE2, ERNI2
> 1.5' tall 0
< 1.5' tall 0
Graminoids Total 0
Dominant Graminoids PSSP6, POBU, BRTE, POSE, BRAR5, FEID, KOMA, FEOV
Graminoids Perennial 0
Graminoids Annual 0
Forbs Total 0
Dominant Forbs BASA3, ACMI2, TRDU, MELO4, COLI2, PHHA, MEOF, TODI, LUSE4,
Forbs Perennial 0
Forbs Annual 0
Ferns Total 0
Ferns Evergreen 0
Ferns Deciduous 0
ExoticsTotal 3
Exotics Perennial 3
Exotics Annual 2
Water 0
Rock Outcrop 0

Gravel 0

Logging 1
Fire:
Stand Age 2
Agriculture 0
Livestock 0
Development 6
Wildlife 3
Recreation Severity 3
Recreation Type 4
Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, ECVU, CESTM, CIVU, HYPE

Other Exotic Plants

BRTE, POBU, BRAR5

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 0
Moss Lichen: 0
Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: developed	95	Matrix	DEVELO
Veg Community1: developed			
Existing Veg2: SRRZ	5	6	POOR
Veg Community3: river riparian zone			
Existing Veg3:	0		
Veg Community3:			

Notes: Bowl and Pitcher campground; much human litter, highly developed; ANPA4 found throughout; quite a bit of diversity

Polygon Number 975

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ns	0		DEVELO

Veg Community1: developed

Existing Veg2:	0		
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Veg Community3:

Existing Veg3:	0		
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Veg Community3:

Notes: suspension bridge from Bowl and Pitcher Campground

Polygon Number 976

ParkName:

Riverside

Survey Intensity

Observer JR-aerial

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Percent Pattern

0

Rank

DEVELO

Veg Community1: developed

Existing Veg2:

0

Veg Community3:

Existing Veg3:

0

Veg Community3:

Notes: road

Polygon Number 978

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/6/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PIPO, PSME
 emergent 1
 maincanopy 3
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs ARUV, ERUM, AMAL2
 > 1.5' tall 1
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids POBU, HECO26, PSSP6, CARU
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs CHJU, BASA3, LUSE4, ACMI2
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 5
 Logging 1
 Fire: 0
 Stand Age 6
 Agriculture 0
 Livestock 0
 Development 6 trails, pipeline
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 CHJU, ECVU, LIDAD, HYPE
Other Exotic Plants
 POBU, TRDU, TAOF

Water: 0
Rock: 0
Talus: 0
Gravel: 5
Bare Ground: 5
Moss Lichen: 5
Litter: 85

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/BASA3-POBU-PSSP6	60	Matrix	FAIR
Veg Community1: PSME/PSSP6 Williams and others 1995			G4
Existing Veg2: PSME/POBU-CHJU-HECO26	40	Large patch	POOR
Veg Community3: PSME/PSSP6 Williams and others 1995			G4
Existing Veg3:	0		
Veg Community3:			

Notes: Ex veg 2 is southeast of pipeline; many small PSME

Polygon Number 981

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/6/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PIPO
 emergent 0
 maincanopy 5
 subcanopy 1
 Shrubs Total 1
 Dominant Shrubs AMAL2
 > 1.5' tall 0
 < 1.5' tall 1
 Graminoids Total 2
 Dominant Graminoids CARU, POBU
 Graminoids Perennial 2
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LUSE4, HISCA, LONE4
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 1
 Exotics Perennial 1
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 1
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

POBU

Water: 0
Rock: 0
Talus: 1
Gravel: 1
Bare Ground: 1
Moss Lichen: 5
Litter: 92

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/CARU-BASA3	100	Matrix	GOOD
Veg Community1: PIPO/CARU	Bourgeron and Engelking 1994		G2
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: dense young trees with hardly any undergrowth

Polygon Number 982B ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/6/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PIPO, PSME
 emergent 2
 maincanopy 4
 subcanopy 2
 Shrubs Total 3
 Dominant Shrubs PHMA5, AMAL2
 > 1.5' tall 3
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids CARU, HECO26, POBU
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 2
 Dominant Forbs BASA3, APAN2, ACMI2
 Forbs Perennial 2
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 3
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 03
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

HYPE, LIDAD

Other Exotic Plants

POBU

Water: 0
Rock: 0
Talus: 7
Gravel: 3
Bare Ground: 2
Moss Lichen: 3
Litter: 85

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/CARU-BASA3	100	Matrix	GOOD
Veg Community1: PSME/PHMA5 Williams and others 1995			G5
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Not rocky like 982A (no rock outcrops) and with less shrubs

Polygon Number 982A ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/6/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PIPO, PSME
 emergent 2
 maincanopy 4
 subcanopy 2
 Shrubs Total 4
 Dominant Shrubs PHMA5, AMAL2, HODI, MAAQ2, ARUV, SYAL
 > 1.5' tall 4
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids CARU, PSSP6, POBU, ELELE
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs ACMI2, PEGA3, MAST4, LUSE4
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 1
 Ferns Evergreen 0
 Ferns Deciduous 1
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 20
 Gravel 5
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 HYPE CED13
Other Exotic Plants
 TAOF, TRDU, POBU

Water: 0
Rock: 20
Talus: 10
Gravel: 5
Bare Ground: 5
Moss Lichen: 7
Litter: 53

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PSME-PIPO/PHMA5-AMAL2-ARUV/CARU-	PSSP6	100	Matrix GOOD
Veg Community1: PSME/PHMA5	Williams and others 1995		G5
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 here; lower, flatter areas have stands of young PSME; northwestern arm of poly does not have as much rock outcrop; 986A is like southeast portion of 982A.

Polygon Number 983A

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH, AM
 Date 8/5/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO
 emergent 1
 maincanopy 4
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs AMAL2, MAAQ2
 > 1.5' tall 2
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids POBU, PSSP6, KOMA, DAUN
 Graminoids Perennial 3
 Graminoids Annual 0
 Forbs Total 3
 Dominant Forbs LONE4, BASA3, PHCA7, ARCO5, LIRU4, CAGE2
 Forbs Perennial 3
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 0
 Water 1
 Rock Outcrop 0
 Gravel 2
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants

ECVU, LIDAD, CHJU

Other Exotic Plants

POBU

Water: 1
Rock: 0
Talus: 10
Gravel: 2
Bare Ground: 1
Moss Lichen: 3
Litter: 83

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-PSSP6-BASA3	98	Matrix	GOOD
Veg Community1: PIPO/PSSP6	Daubenmire and Daubenmire 1984		G4
Existing Veg2: SRRZ	2	linear	FAIR
Veg Community3: river riparian zone			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found here

Polygon Number 983C ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/6/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PIPO, PSME
 emergent 2
 maincanopy 4
 subcanopy 5
 Shrubs Total 1
 Dominant Shrubs AMAL2
 > 1.5' tall 1
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids PSSP6, FEID, POBU
 Graminoids Perennial 3
 Graminoids Annual 0
 Forbs Total 3
 Dominant Forbs LONE4, BASA3, PHCA7, LUSE4
 Forbs Perennial 3
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 0
 Water 1
 Rock Outcrop 0
 Gravel 5
 Logging 1
 Fire: YES
 Stand Age 5
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, TAVU, CEDI3

Other Exotic Plants

POBU

Water: 1
Rock: 0
Talus: 5
Gravel: 5
Bare Ground: 2
Moss Lichen: 1
Litter: 86

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/FEID-BASA3	98	Matrix	GOOD
Veg Community1: PSME/PSSP6 Williams and others 1995			G4
Existing Veg2: SRRZ	2	Large patch	GOOD
Veg Community3: river riparian zone			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 here; has a fire effect; understory is densely pipo- domanit grass is FEID(possibly due to reveg? Post fire); very narrow riparian zone due to steep slope.

Polygon Number 983B ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/6/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 1
 maincanopy 4
 subcanopy 2
 Shrubs Total 2
 Dominant Shrubs AMAL2
 > 1.5' tall 2
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids POBU, PSSP6, BRTE, ELGL
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs BASA3, LONE4, PHCA7, LUSE4, LIRU4, HISCA
 Forbs Perennial 3
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 3
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 LIDAD, HYPE, CEDI3
Other Exotic Plants
 POBU, BRTE

Water: 0
Rock: 0
Talus: 2
Gravel: 3
Bare Ground: 2
Moss Lichen: 1
Litter: 92

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/AMAL2/BASA3-PSSP6	100	Matrix	GOOD
Veg Community1: PSME/PSSP6 Williams and others 1995			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found here; more or less classic PIPO overstory with PSME understory-reletively new shrub cover

Polygon Number 984

ParkName:

Survey Intensity 1
Observer JR, DH
Date 8/6/2008
Total Vegetation 5
Trees Total 5
Dominant Trees PIPO, PSME
emergent 2
maincanopy 4
subcanopy 3
Shrubs Total 2
Dominant Shrubs AMAL2, PHLE4
> 1.5' tall 2
< 1.5' tall 1
Graminoids Total 3
Dominant Graminoids POBU, HECO26, CARU
Graminoids Perennial 3
Graminoids Annual 2
Forbs Total 3
Dominant Forbs BASA3, LUSE4, LONE4, APAN2, PHCA7, VIVI
Forbs Perennial 3
Forbs Annual 2
Ferns Total 0
Ferns Evergreen 0
Ferns Deciduous 0
ExoticsTotal 2
Exotics Perennial 2
Exotics Annual 1
Water 0
Rock Outcrop 0

Gravel 3

Logging 1
Fire: 0
Stand Age 2
Agriculture 0
Livestock 0
Development 6
Wildlife 3
Recreation Severity 3
Recreation Type 4
Hydrology 1

Riverside

Exotic Species

Noxious Exotic Plants
 ECVU, HYPE, LIDAD, CHJU
Other Exotic Plants
 POBU, VIVI

Water: 0
Rock: 0
Talus: 13
Gravel: 3
Bare Ground: 2
Moss Lichen: 5
Litter: 77

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/BASA3-POBU-APAN2	80	Matrix	GOOD
Veg Community1: PSME/CARU		Bourgeron and Engelking 1994; Williams and others 1995	G5
Existing Veg2: PIPO-PSME/BASA3-CARU	20	Scattered, more	GOOD
Veg Community3: PSME/CARU		Bourgeron and Engelking 1994; Williams and others 1995	G5
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found her; all PSME young

Polygon Number 985

ParkName:

Riverside

Survey Intensity	1	
Observer	JR, DH	
Date	8/6/2008	
Total Vegetation	4	
Trees Total	3	
Dominant Trees	PSME, PIPO	
emergent	0	
maincanopy	3	
subcanopy	1	
Shrubs Total	3	
Dominant Shrubs	PHMA5, AMAL2, ERCO12, ACGLD4, ERUM, SYAL	
> 1.5' tall	3	
< 1.5' tall	2	
Graminoids Total	3	
Dominant Graminoids	POBU, PSSP6, FEID	
Graminoids Perennial	3	
Graminoids Annual	1	
Forbs Total	2	
Dominant Forbs	APAN2	
Forbs Perennial	2	
Forbs Annual	1	
Ferns Total	1	
Ferns Evergreen	0	
Ferns Deciduous	1	
ExoticsTotal	2	
Exotics Perennial	2	
Exotics Annual	1	
Water	0	
Rock Outcrop	18	
Gravel	7	
Logging	1	
Fire:	0	
Stand Age	2	
Agriculture	0	
Livestock	0	
Development	3	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

POBU

Water:	0
Rock:	18
Talus:	35
Gravel:	7
Bare Ground:	5
Moss Lichen:	10
Litter:	25

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PSME/PHMA5-AMAL2/PSSP6-POBU	100	Matrix	GOOD
Veg Community1: PSME/PHMA5 Williams and others 1995			G5
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Open basalt rock face

Polygon Number 986B ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/6/2008
 Total Vegetation 4
 Trees Total 2
 Dominant Trees PIPO
 emergent 0
 maincanopy 2
 subcanopy 2
 Shrubs Total 4
 Dominant Shrubs PHMA5, AMAL2, ARUV
 > 1.5' tall 4
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids PSSP6, POBU, CARU
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 2
 Dominant Forbs ACMI2, LIDAD, PHCA7, BASA3
 Forbs Perennial 2
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 10
 Logging 1
 Fire: YES; 14 YEARS
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 5
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE

Other Exotic Plants

POBU, VETH

Water: 0
Rock: 0
Talus: 2
Gravel: 10
Bare Ground: 10
Moss Lichen: 5
Litter: 73

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/PHMA5-AMAL2/PSSP6-POBU	100	Matrix	GOOD
Veg Community1: PIPO/PHMA5 Williams and others 1995			G2
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 here; steep hillside

Polygon Number 986A ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/6/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PIPO, PSME
 emergent 2
 maincanopy 4
 subcanopy 2
 Shrubs Total 4
 Dominant Shrubs PHMA5, AMAL2, HODI, MAAQ2, ARUV, SYAL
 > 1.5' tall 4
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids CARU, PSSP6, POBU, ELELE
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs ACMI2, PEGA3, MAST4, LUSE4
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 1
 Ferns Evergreen 0
 Ferns Deciduous 1
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 20
 Gravel 5
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 HYPE CED13
Other Exotic Plants
 TAOF, TRDU, POBU

Water: 0
Rock: 20
Talus: 10
Gravel: 5
Bare Ground: 5
Moss Lichen: 7
Litter: 53

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PSME-PIPO/PHMA5-AMAL2-ARUV/CARU-	PSSP6	100	Matrix GOOD
Veg Community1: PSME/PHMA5	Williams and others 1995		G5
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 here; lower, flatter areas have stands of young PSME; 986A is like southeast portion of 982A.

Polygon Number 987

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/6/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PIPO, PSME
 emergent 0
 maincanopy 3
 subcanopy 3
 Shrubs Total 1
 Dominant Shrubs AMAL2
 > 1.5' tall 1
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids DAUN, POBU, PSSP6
 Graminoids Perennial 3
 Graminoids Annual 0
 Forbs Total 3
 Dominant Forbs BASA3, LONE4, GRNA, CIIN
 Forbs Perennial 3
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 10
 Logging 1
 Fire: 0
 Stand Age 5
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

ECVU, CHJU

Other Exotic Plants

POBU

Water: 0
Rock: 0
Talus: 0
Gravel: 10
Bare Ground: 10
Moss Lichen: 0
Litter: 80

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/BASA3-GRNA-POBU	100	Matrix	FAIR
Veg Community1: disturbed/weedy			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 994

ParkName:

Riverside

Survey Intensity 2
 Observer JR, DH
 Date 8/7/2008
 Total Vegetation 4
 Trees Total 1
 Dominant Trees PIPO
 emergent 0
 maincanopy 1
 subcanopy 0
 Shrubs Total 2
 Dominant Shrubs ERNA10
 > 1.5' tall 2
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids BRTE, HECO26, POBU, PSSP6
 Graminoids Perennial 3
 Graminoids Annual 3
 Forbs Total 3
 Dominant Forbs CESTM, LIDAD, CHJU, CHANA2
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 3
 Exotics Annual 3
 Water 0
 Rock Outcrop 0
 Gravel 2
 Logging 1
 Fire: YES; 5-10 YRS AGO
 Stand Age 1
 Agriculture 6; SOME ALFALFA
 Livestock 0
 Development 5; NEAR PRIVATE
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 HYPE, LIDAD, CESTM, CHJU
Other Exotic Plants
 BRTE, POBU, TRDU

Water: 0
Rock: 0
Talus: 0
Gravel: 2
Bare Ground: 40
Moss Lichen: 1
Litter: 57

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ERNA10/BRTE-CESTM-HECO26	100	Matrix	POOR
Veg Community1: PIPO/PSSP6		Daubenmire and Daubenmire 1984	G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 995

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/7/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PIPO
 emergent 0
 maincanopy 2
 subcanopy 3
 Shrubs Total 2
 Dominant Shrubs ERNI2, ERNA10, SYAL, AMAL2, ROWO
 > 1.5' tall 2
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids POBU, BRTE, HECO26
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs EUES, CESTM, BASA3
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 2
 Logging 1
 Fire: YES; 5-10 YRS AGO
 Stand Age 5
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, CESTM

Other Exotic Plants

POBU, BRTE

Water: 0
Rock: 0
Talus: 0
Gravel: 2
Bare Ground: 30
Moss Lichen: 3
Litter: 65

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/POBU-CESTM	70	Matrix	POOR
Veg Community1: PIPO/HECO26		Bourgeron and Engelking 1994	G1
Existing Veg2: PIPO/ERNI2/BASA3-POBU-HECO26	25	linear	POOR
Veg Community3: PIPO/HECO26		Bourgeron and Engelking 1994	G1
Existing Veg3: PIPO/SYAL/EUES-CESTM-POBU	5	Small patch	POOR
Veg Community3: PIPO/SYAL		Daubenmire and Daubenmire 1984	G4

Notes: Evenly weedy

Polygon Number 996

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/7/2008
 Total Vegetation 5
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 1
 maincanopy 4
 subcanopy 2
 Shrubs Total 3
 Dominant Shrubs SYAL, PHMA5, AMAL2, Unk (scalloped leaf), ROWO, TORY
 > 1.5' tall 3
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids PHAR3, POBU, HECO26, PSSP6, BRTE
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 4
 Dominant Forbs EUES, LUAR3, BASA3
 Forbs Perennial 4
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 4
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 1
 Fire: burnt portion
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 4
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

CESTM, *lgwt, LIDAD

Other Exotic Plants

TRDU, ELELE

Water: 0
Rock: 0
Talus: 0
Gravel: 1
Bare Ground: 30
Moss Lichen: 2
Litter: 67

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO-PSME/AMAL2/LUAR3-POBU	50	Matrix	FAIR
Veg Community1: PSME/PHMA			
Existing Veg2: PIPO-PSME/PHMA5-SYAL-TORY/PHAR3-	EUES 30		Large patch POOR
Veg Community3: PSME/PHMA5 Williams and others 1995			G5
Existing Veg3: PIPO/BASA3-LUAR3-BRTE	20	Small patch	POOR
Veg Community3: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4

Notes: EUES- Adjacent to private property; LIDAD infestation in burn; ANPA4 found here

Polygon Number 998

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/7/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PIPO
 emergent 2
 maincanopy 4
 subcanopy 2
 Shrubs Total 1
 Dominant Shrubs AMAL2
 > 1.5' tall 1
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids POBU, CARU, PSSP6
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs LUSE4, LUAR3, LONE4, *lgwt, ARCO
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 2
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, CESTM

Other Exotic Plants

TRDU, POBU

Water: 0
Rock: 0
Talus: 1
Gravel: 2
Bare Ground: 5
Moss Lichen: 5
Litter: 87

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/LUSE4-LUAR3-POBU	100	Matrix	FAIR
Veg Community1: PIPO/CARU		Bourgeron and Engelking 1994	G2
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found here

Polygon Number 1001

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/7/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO
 emergent 0
 maincanopy 4
 subcanopy 1
 Shrubs Total 2
 Dominant Shrubs ERNA10, ERN12, ERUM
 > 1.5' tall 2
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids POBU, HECO26, PSSP6, BRTE
 Graminoids Perennial 3
 Graminoids Annual 2
 Forbs Total 3
 Dominant Forbs LUSE4, CESTM, LIDAD, BASA3
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 3
 Logging 1
 Fire: YES; 5-10 YEARS
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, CESTM

Other Exotic Plants

POBU, BRTE

Water: 0
Rock: 0
Talus: 0
Gravel: 3
Bare Ground: 23
Moss Lichen: 5
Litter: 69

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/LUSE4-POBU-CESTM-PSSP6	100	Matrix	POOR
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Many downed logs

Polygon Number 1002

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH, PM
 Date 8/7/2008
 Total Vegetation 5
 Trees Total 5
 Dominant Trees PIPO
 emergent 2
 maincanopy 5
 subcanopy 1
 Shrubs Total 1
 Dominant Shrubs AMAL2, ARUV
 > 1.5' tall 1
 < 1.5' tall 1
 Graminoids Total 3
 Dominant Graminoids POBU, CARU, HECO26, BRTE, BRAR5
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs LUSE4, BASA3, ACMI2
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 1
 Logging 1
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD

Other Exotic Plants

POBU, BRTE

Water: 0
Rock: 0
Talus: 0
Gravel: 1
Bare Ground: 1
Moss Lichen: 10
Litter: 88

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/HECO26-POBU-LUSE4	100	Matrix	FAIR
Veg Community1: PIPO/HECO26 Bourgeron and Engelking 1994			G1
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Some patches with barely any undergrowth; patches of tightly spaced and apparently sickly trees; ANPA4 here.

Polygon Number 1003

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH
 Date 8/7/2008
 Total Vegetation 4
 Trees Total 4
 Dominant Trees PIPO, PSME
 emergent 2
 maincanopy 4
 subcanopy 2
 Shrubs Total 3
 Dominant Shrubs ARUV, SYAL, AMAL2
 > 1.5' tall 3
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids POBU, CARU, HECO26, BRAR5
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs LUSE4, LONE4, BASA3, LUAR3
 Forbs Perennial 3
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 6
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants

LIDAD, CESTM

Other Exotic Plants

POBU, BRAR5, ELELE

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 0
Moss Lichen: 0
Litter: 0

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/ARUV-SYAL-AMAL2/LUSE4-LONE4	90	Matrix	GOOD
Veg Community1: PIPO/HECO26 Bourgeron and Engelking 1994			G1
Existing Veg2: PIPO-PSME/ARUV-SYAL/CARU-LUSE4	10	Small patch	GOOD
Veg Community3: PIPO-PSME/CARU			
Existing Veg3:	0		
Veg Community3:			

Notes: ANPA4 found here, understory with some patches

Polygon Number 1004

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH, PM
 Date 8/7/2008
 Total Vegetation 4
 Trees Total 3
 Dominant Trees PIPO
 emergent 0
 maincanopy 2
 subcanopy 3
 Shrubs Total 3
 Dominant Shrubs SADO4, ERNI2, AMAL2
 > 1.5' tall 2
 < 1.5' tall 3
 Graminoids Total 3
 Dominant Graminoids PSSP6, POBU, BRAR5
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 3
 Dominant Forbs LUSE4, BASA3, PHCA7
 Forbs Perennial 3
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 3
 Exotics Perennial 3
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 5
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 LIDAD, CESTM, CHJU
Other Exotic Plants
 POBU, BRTE, BRAR5

Water: 0
Rock: 0
Talus: 2
Gravel: 5
Bare Ground: 28
Moss Lichen: 5
Litter: 60

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: PIPO/SADO4-ERNI2/PSSP6-POBU-LUSE4	100	Matrix	FAIR
Veg Community1: PIPO/PSSP6 Daubenmire and Daubenmire 1984			G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 1005

ParkName:

Riverside

Survey Intensity 2
 Observer JR, DH
 Date 8/7/2008
 Total Vegetation 3
 Trees Total 3
 Dominant Trees PIPO
 emergent 0
 maincanopy 1
 subcanopy 3
 Shrubs Total 3
 Dominant Shrubs ERNA10, SADO4, ERNI2
 > 1.5' tall 1
 < 1.5' tall 3
 Graminoids Total 2
 Dominant Graminoids BRTE
 Graminoids Perennial 1
 Graminoids Annual 1
 Forbs Total 2
 Dominant Forbs CHJU, STMI13
 Forbs Perennial 2
 Forbs Annual 1
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 1
 Water 0
 Rock Outcrop 0
 Gravel 7
 Logging 1
 Fire: 0
 Stand Age 1
 Agriculture
 Livestock 0
 Development 5
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

CHJU, LIDAD

Other Exotic Plants

BRTE, TRDU

Water: 0
Rock: 0
Talus: 3
Gravel: 7
Bare Ground: 75
Moss Lichen: 0
Litter: 15

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: ERNA10/BRTE	100	Matrix	FAIR
Veg Community1: ERNA10-CHVI8-ERNI2		Hallock and others 2007	NR
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Very sandy hillside

Polygon Number 1007

ParkName:

Riverside

Survey Intensity 1
 Observer JR, DH, PM
 Date 8/7/2008
 Total Vegetation 5
 Trees Total 1
 Dominant Trees PIPO
 emergent 0
 maincanopy 0
 subcanopy 1
 Shrubs Total 2
 Dominant Shrubs SAEX, ERNI2, ERCO12
 > 1.5' tall 2
 < 1.5' tall 2
 Graminoids Total 3
 Dominant Graminoids THIN6, BRAR5, PHAR3
 Graminoids Perennial 3
 Graminoids Annual 1
 Forbs Total 4
 Dominant Forbs CESTM, TAVU
 Forbs Perennial 4
 Forbs Annual 2
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 4
 Exotics Perennial 4
 Exotics Annual 2
 Water 0
 Rock Outcrop 0
 Gravel 20
 Logging 1
 Fire: 0
 Stand Age 1
 Agriculture 0
 Livestock 0
 Development 3
 Wildlife 3
 Recreation Severity 3
 Recreation Type 4
 Hydrology 1

Exotic Species

Noxious Exotic Plants
 ARAB3, CESTM, CHJU, CEDI3, LIDAD,
Other Exotic Plants
 POBU, BRAR5, AGIN, TRDU

Water: 0
Rock: 0
Talus: 5
Gravel: 20
Bare Ground: 15
Moss Lichen: 3
Litter: 57

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1: SAEX/weeds	100	Matrix	POOR
Veg Community1: disturbed/weedy			
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes: Seasonal water channel with sandy, clay soil; weed infested

Polygon Number 1015

ParkName:

Riverside

Survey Intensity 1
 Observer RO, AM
 Date 8/4/2008
 Total Vegetation 5
 Trees Total 3
 Dominant Trees PIPO, SALA2
 emergent 0
 maincanopy 3
 subcanopy 0
 Shrubs Total 3
 Dominant Shrubs CRDO2, SPDO, SAEX
 > 1.5' tall 3
 < 1.5' tall 0
 Graminoids Total 3
 Dominant Graminoids PHAR3, ELRE4
 Graminoids Perennial 3
 Graminoids Annual 0
 Forbs Total 2
 Dominant Forbs CIAR4, CAREX
 Forbs Perennial 2
 Forbs Annual 0
 Ferns Total 0
 Ferns Evergreen 0
 Ferns Deciduous 0
 ExoticsTotal 2
 Exotics Perennial 2
 Exotics Annual 0
 Water 0
 Rock Outcrop 0
 Gravel 0
 Logging 1
 Fire: 0
 Stand Age 2
 Agriculture 0
 Livestock 0
 Development 0
 Wildlife 3
 Recreation Severity 3
 Recreation Type 3
 Hydrology 1

Exotic Species

Noxious Exotic Plants

TAVU, PHAR3

Other Exotic Plants

Water: 0
Rock: 0
Talus: 0
Gravel: 0
Bare Ground: 2
Moss Lichen: 0
Litter: 98

Vegetation Types

	Percent	Pattern	Rank
Existing Veg1:	PIPO-SALA2/CRDO2-SPDO-SAEX/ PHAR3- ELRE4-CAREX	100	Matrix FAIR
Veg Community1:	PIPO/SYAL Daubenmire and Daubenmire 1984		G4
Existing Veg2:	0		
Veg Community3:			
Existing Veg3:	0		
Veg Community3:			

Notes:

Polygon Number 1023

ParkName:

Riverside

Survey Intensity	1	
Observer	RO, AM	
Date	8/4/2008	
Total Vegetation	4	
Trees Total	4	
Dominant Trees	PIPO	
emergent	1	
maincanopy	4	
subcanopy	1	
Shrubs Total	2	
Dominant Shrubs	SYAL, CRDO2, ARUV, ERNI2	
> 1.5' tall	2	
< 1.5' tall	1	
Graminoids Total	3	
Dominant Graminoids	ELGL, ELRE4, ARPU9, POBU	
Graminoids Perennial	3	
Graminoids Annual	0	
Forbs Total	3	
Dominant Forbs	ARLU, ANPA4, BASA3, LONE4, ARCO5, RUAC3, GAAR, VIVI	
Forbs Perennial	3	
Forbs Annual	0	
Ferns Total	0	
Ferns Evergreen	0	
Ferns Deciduous	0	
ExoticsTotal	2	
Exotics Perennial	2	
Exotics Annual	0	
Water	0	
Rock Outcrop	0	
Gravel	5	
Logging	1	
Fire:	0	
Stand Age	5	
Agriculture	0	
Livestock	0	
Development	3	
Wildlife	3	
Recreation Severity	3	
Recreation Type	3	
Hydrology	1	

Exotic Species

Noxious Exotic Plants

LIDAD, HYPE, TAVU, CEDI3, PORE5,

Other Exotic Plants

TRDU

Water:	0
Rock:	0
Talus:	2
Gravel:	5
Bare Ground:	2
Moss Lichen:	1
Litter:	90

Vegetation Types

	Percent	Pattern	Rank	
Existing Veg1:	PIPO/SYAL-CRDO-ARUV/ELGL-POBU	100	Matrix	GOOD
Veg Community1:	PIPO/SYAL	Daubenmire and Daubenmire 1984		G4
Existing Veg2:		0		
Veg Community3:				
Existing Veg3:		0		
Veg Community3:				

Notes:

Polygon Number

1200

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Polygon Number

1201

ParkName:

Riverside

Survey Intensity

Observer

Date

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

Ferns Evergreen 0

Ferns Deciduous 0

ExoticsTotal 0

Exotics Perennial 0

Exotics Annual 0

Water 0

Rock Outcrop 0

Gravel 0

Logging

Fire:

Stand Age

Agriculture

Livestock

Development

Wildlife

Recreation Severity

Recreation Type

Hydrology

Exotic Species

Noxious Exotic Plants

Other Exotic Plants

Water: 0

Rock: 0

Talus: 0

Gravel: 0

Bare Ground: 0

Moss Lichen: 0

Litter: 0

Vegetation Types

Existing Veg1: ns

Veg Community1: N/A

Existing Veg2:

Veg Community3:

Existing Veg3:

Veg Community3:

Notes:

Percent Pattern Rank

0 N/A

0

0

Appendix F – Washington Natural Heritage Program Rare Plant Sighting Forms

Washington Natural Heritage Program Rare Plant Sighting Form:

Taxon Name: *Hackelia cinerea*

EO #:

Are you confident of the identification? Yes Explain:

Survey Site Name: Riverside State Park

Surveyor's Name/Phone/Email: Robin O'Quinn/509-359-6118/roquinn@mail.ewu.edu

Survey Date (yr-mo-day): 08-07-17

County: Spokane

Quad Name:

Township: T26N R42E S

Directions to site: Dispersed throughout Riverside State Park and adjacent lands

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.

Please answer the following:

1. I used GPS to map the population: no (complete #1 & #3)

Coordinates are in electronic file on diskette (preferred) or Coordinates written below or attached.

Description of what coordinates represent:

GPS accuracy: Uncorrected

GPS datum:

GPS coordinates:

2. I used a topographic map to map the population:

Yes (complete #2) Yes (provide detailed directions & description above, and skip to #3)

I am confident I have accurately located and mapped the population at map scale:

Yes (skip to #3) No, but I am confident the population is within the general area indicated on the map.

To the best of my knowledge, I mapped the entire extent of this population

No If no or unknown, explain: Probable extent of population is not accessible due to steep cliffsides.

Is a revisit needed? No

Ownership (if known): WSPRC

Population Size (# of individuals or ramets) or estimate: >100 individuals in park

Population (EO) Data (include population vigor, microhabitat, phenology, etc.): NE, healthy individuals on both basalt cliffs and some below; basalt cliff niches with moss; end of flowering period – few individuals still in bloom. RSP subpopulations ranged in the number of reproductive individuals from 2-35, depending on the size of the outcrop. Individuals of *H. cinerea* were in bloom during our surveys

(roughly mid June – mid July), thus we were able to establish that subpopulations are vigorous and appear to be recruiting. It was common to find a small percentage of non-reproductive individuals at each location. These vegetative individuals were small vegetative basal rosettes, which suggests that they were too young to produce reproductive structures.

Plant Association: various types – from PIPO series forests to lithosol shrub-steppe communities.
Populations always occurred associated with basalt rock outcrops.

Associated Species (include % cover by layer and by individual species for dominants in each layer):

Lichen/moss layer: yes

Herb layer: POSE, AGOC2, HECY2

Shrub layer(s): *Physocarpus malvaceus*, *Philadelphus lewisii*, *Amelanchier alnifolia*

Tree layer: PSME, PIPO

General Description (include description of landscape, surrounding plant communities, land forms, land use, etc.): We found the habitat for *H. cinerea* in RSP to be highly restricted to mossy cracks and tiny plateaus in primarily vertical basalt rock outcrops with a predominantly northern exposure. These habitat conditions were a good predictor for locating subpopulations. An exception to the relatively dry conditions described above, occurred in one subpopulation in a more mesic environment along Coulee Creek

Minimum elevation (ft.): 1600

Maximum elevation (ft.): 1900

Size (acres): Unknown

Aspect: variable

Slope: variable

Photo taken? Yes

Management Comments (exotics, roads, shape/size, position in landscape, hydrology, adjacent land use, cumulative effects, etc.):

Protection Comments (legal actions/steps/strategies needed to secure protection for the site):

Please mail completed form with map:

WASHINGTON NATURAL HERITAGE PROGRAM

DEPARTMENT OF NATURAL RESOURCES

PO BOX 47014, OLYMPIA WA 98504-7014

Washington Natural Heritage Program Rare Plant Sighting Form

Taxon Name: *Spartina pectinata*

EO #:

Are you confident of the identification?: Yes Explain: specimens match botanical description exactly.

Survey Site Name: Riverside State Park

Surveyor's Name/Phone/Email: Peter Morrison, 509-996-2490, pm@pacificbio.org

Survey Date (yr-mo-day): 2008-Aug-29

County: Spokane

Quad Name:

Township:

Directions to site: Along the shores of the Spokane River below the Ninemile bridge and dam.

1. I used GPS to map the population: Yes (complete #1 & #3)

Coordinates are in electronic file on diskette (preferred) or Coordinates written below or attached.

Description of what coordinates represent: ESRI shapefile included. Created with ArcPad, mobile GIS.

GPS accuracy: Uncorrected

GPS datum: UTM 11 WGS84

GPS coordinates: see ESRI shapefile

2. I used a topographic map to map the population: No

I am confident I have accurately located and mapped the population at map scale: Yes

3. I used the following features on the map to identify my location (stream, shoreline, bridge, road, cliff, etc.): River shoreline

To the best of my knowledge, I mapped the entire extent of this population: Yes (in this area)

Is a revisit needed? No

Ownership (if known): Riverside State Park

Population Size (# of individuals or ramets) or estimate: 1000 – 2000 individuals

Population (EO) Data (include population vigor, microhabitat, phenology, etc.): The population appears vigorous, growing in numerous patches along the shoreline. Each population has at least 10 individuals, often many more.

Plant Association: Broad classification: Spokane River Riparian Zone (see PBI report (Morrison et al 2009). The plants are growing in a zone right above the typical highwater mark in gravels, sands and cobbles. They form their own plant association: the *Spartina pectinata* community.

Associated Species (include % cover by layer and by individual species for dominants in each layer):

Lichen/moss layer: yes, moss

Herb layer: *Carex* species sometimes mixed in with SPPE, (50-90%)

Shrub layer(s): *Salix* spp. , (0-10%)

Tree layer: ALIN, POBAT (0-10%)

General Description (include description of landscape, surrounding plant communities, land forms, land use, etc.): Gently sloping shorelines along the Spokane River. Cobbles, gravel and sand bars. Usually growing right above normal high water mark.

Minimum elevation (ft.):

Maximum elevation (ft.):

Size (acres):

Aspect: flat

Slope: flat to very gently sloping

Photo taken? Yes

Management Comments (exotics, roads, shape/size, position in landscape, hydrology, adjacent land use, cumulative effects, etc.): The population would be destroyed by inundation of the river shoreline by a water impoundment. Also, any high velocity, sustained release of water from the upstream dams could adversely impact the population. Significant increases in recreational along the shoreline would negatively affect the population.

Protection Comments (legal actions/steps/strategies needed to secure protection for the site):

Protection of the shoreline habitat and its hydrology is essential to maintain the population.

Washington Natural Heritage Program Rare Plant Sighting Form

Taxon Name: *Antennaria parviflora*

EO #:

Are you confident of the identification? Yes Explain: ID confirmed at UW and EWU herbariums and through other botanical research.

Survey Site Name: Riverside State Park

Surveyor's Name/Phone/Email: Peter Morrison, 509-996-2490, pm@pacificbio.org, and George Wooten, Robin O'Quinn, Juliet Rhodes

Survey Date (yr-mo-day): 2008-May 4 to September 8

County: Spokane

Quad Name:

Township:

Directions to site: Riverside State Park, ponderosa pine forests.

Mapping

1. I used GPS to map the population: Yes

Coordinates are in electronic file on diskette (preferred) or Coordinates written below or attached.

Description of what coordinates represent: ESRI shapefile included. Created with ArcPad, mobile GIS.

GPS accuracy: Uncorrected

GPS datum: UTM 11 WGS84

GPS coordinates: see ESRI shapefile

2. I used a topographic map to map the population: No

I am confident I have accurately located and mapped the population at map scale: Yes

3. I used the following features on the map to identify my location (stream, shoreline, bridge, road, cliff, etc.): River shoreline

To the best of my knowledge, I mapped the entire extent of this population: Yes, at least most of it.

Is a revisit needed? No

Ownership (if known): Riverside State Park (RSP)

Population Size (# of individuals or ramets) or estimate: probably over 1 million individuals. There are numerous patches throughout many of the ponderosa pine forest in RSP.

Population (EO) Data (include population vigor, microhabitat, phenology, etc.): The population appears vigorous, growing in numerous patches in many of the less disturbed ponderosa pine stands. Many metapopulations consist of over 1000 individuals.

Plant Association: Broad classification: ponderosa pine forests, PIPO/CARU, PIPO/FEID, PIPO/HECO26, PIPO/PHMA

Associated Species (include % cover by layer and by individual species for dominants in each layer):

Lichen/moss layer: 5%

Herb layer: *Calamagrostis rubescens*, *Poa bulbosa*, *Festuca idahoensis*, *Heterostipa comata*, 10-25%

Shrub layer(s): *Amelanchier alnifolia*, *Physocarpus malvaceous*, *Spirea betulifolia* 15-30%

Tree layer: *Pinus ponderosa*, 40-75%

General Description (include description of landscape, surrounding plant communities, land forms, land use, etc.): Usually ANPA4 grows on relatively flat terrain in the pine litter in the understory of ponderosa pine forests. Recently disturbed forests do not seem to have ANPA4.

Minimum elevation (ft.):

Maximum elevation (ft.):

Size (acres):

Aspect: flat to gently rolling

Slope: flat to very gently sloping

Photo taken?: Yes

Management Comments (exotics, roads, shape/size, position in landscape, hydrology, adjacent land use, cumulative effects, etc.): Forest health treatments that include thinning, chipping and spreading of the chip residue appears to greatly impede the growth and survival of ANPA4. The results of prescribed fire are unknown, but probably more conducive to growth and survival of ANPA4 as long as fireline intensity is kept relatively low.

Protection Comments (legal actions/steps/strategies needed to secure protection for the site): The population is so robust that we do not recommend any further protection efforts. In fact, we recommend that this species be delisted as sensitive in Washington State and moved to the Watch List.