

# **AMAZON CREEK MITIGATION BANK, LLC**

## **PHASE II ANNUAL REPORT 2011**

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## INTRODUCTION

This report describes results of the Spring 2011 vegetation monitoring of the "Phase II" wetland. Vegetation monitoring at this site began in 2004. The Instrument stipulates that comparisons will be made with a reference site. The MBRT had previously agreed that Stewart Pond wetland complex in west Eugene is an acceptable reference site. As stipulated in the Bank Instrument, Phase I is passed the five year timeframe after the last credit was sold and is no longer being monitored.

## FINDINGS/SUMMARY

Vegetation sampling data from a field survey undertaken on June 21, 2011 indicates that the Phase II wetland at the Amazon Creek Mitigation Bank continues to attain or surpass all performance criteria established in the Mitigation Bank Instrument.

## METHODS

Standard survey methods used in previous years Phase 2 surveys were again followed for the Year 7 monitoring effort. As specified in the Bank Instrument, a systematic quadrat (plot) method of sampling within the Bank was undertaken. Within the area defined as the Phase 2 wetland bank, 30 quadrats had originally been established. These plots were situated equidistantly (71 meters apart) along 7 transect lines which also were 71 meters apart. Because of the irregularly tapering shape of the wetland, five transects contained 5 points, one contained 4 points and one (at the north end) contained a single point. The location of the first quadrat on each transect was staggered from the previous transect.

For surveying herbaceous and open water habitats each sampling quadrat was a 1 meter(m) x 1 meter square placed southwestward from its point on the transect (marked by a fixed T-bar fence post). Plants were identified to species. Percent cover of each species was estimated in each quadrat as well as percent bare ground using Oregon DSL's chart for Estimating Cover.

No woody habitats were included in this Phase II survey.

Each quadrat on each transect was surveyed for the characteristics described in Sections 13.1.1 and 13.1.3 of the Bank Instrument. In 2011, the Phase II wetland was surveyed on 21 June. All vegetation data is included in Appendix A. Vegetation that had been documented during one or more previous years monitoring efforts but was not found during the 2011 survey have been included within the data presented in Appendix A. However, their species percentages are reported as 0. The Prevalence (Moisture) Index was calculated using the formula in the *Draft Guidance for Vegetation Planning and Monitoring in Western Oregon Wetlands and Riparian Areas* (June 2004 version). Scores were assigned to species as follows: 1 = OBL, 2 = FACW, 3 = FAC, 4 = FACU, 5 = UPL, NOL or NI.

## RESULTS

GENERAL CRITERIA: For a mitigation site to be counted as "wetland," it must have hydrological conditions, soils, and vegetation that typify wetlands. Soil and hydrological conditions are documented in papers filed separately from this report. Vegetation conditions only are documented herein.

From the data encompassing all 30 quadrats (see accompanying data in Appendix A), the average prevalence moisture index was found to be 2.59, indicating a prevalence of wetland plant species cover. The score was less than 3.00 (suggesting wetland conditions) in 70% of the quadrats. Quadrats where it exceeded 3.00 were mostly in higher areas along the periphery of the site and their high score, to a large extent, reflected increased dominance by *Madia gracilis*, a species whose wetland status is actually *grassy tarweed* unknown, but which had to be categorized as "Upland" by default according to Corps of Engineers delineation procedures. The Phase II site was also found to support an exceptional richness of plants: 37 species were found during this survey and that included only those species that fell within the sample quadrats. A comparable number of plots from the Stewart Pond reference site, which likewise has existed as a restored formerly riverine wetland, but for a much longer period of time, contained 14 species.

Common native plant species with wetland status found within the Phase II site (but not necessarily within transect plots) include: *Downingia elegans*, *Plagiobothrys figuratus*, *Plagiobothrys scouleri*, *Bidens frondosa*, *Eleocharis palustris*, *Beckmannia syzigachne*, *Psilocarphus elatior*, *Epilobium ciliatum*, *Lythrum portula*, *Lythrum hyssopifolium*, *Deschampsia danthonioides*, *Deschampsia cespitosa*, *Agrostis exarata*, *Alopecurus geniculatus* and *Hordeum brachyantherum*. *Beckmannia syzigachne* (Sloughgrass) was particularly abundant in 2011.

*Mentha pulegium* documented within transect plots was down significantly in 2011 as compared to 2010 with an occurrence sum of 90 in 2011 vs 161 in 2010.

As stated in the Bank Instrument: "The project will be successful and certified when:"

### 13. 1.1 Herbaceous Vegetation

CRITERION: COVER and COMPOSITION. At the end of the first growing season, desirable herbaceous vegetation will dominate in 60% of the plots located in the non-inundated emergent habitats located at the bank site. At the end of year two growing season, desirable herbaceous vegetation will dominate in a number of plots equal or greater than 65% of the proportional number of plots in which it dominates at the reference site in non-inundated emergent habitats, and 70% or greater in subsequent years."

STATUS: This standard was met, with desirable vegetation (i.e., no undesirable vegetation) dominating 100% of the plots. Only one herbaceous species designated as undesirable in the Instrument was found in 2011 within the Phase 2 Mitigation Bank by the approved sampling methodology: *Cirsium arvense* with no more than 1% cover in quadrat 46 and 15% cover in quadrat 55.

CRITERION: "SPECIES RICHNESS. At the end of the first and second growing season the number of species on the cumulative list of desirable herbaceous plant species (i.e., the list accumulated from among all plots in herbaceous emergent habitats at the Bank site) will be at least

*Canada thistle*

60% percent of the number of species of desirable herbaceous plants on a comparable list from the reference site. At the end of year 5 growing season, this standard will be 70% or greater... Both planted and recruited species will be included in evaluating these standards."

STATUS: The cumulative list for a comparable number of randomly-selected quadrats from the Stewart Pond reference site contained a total of 14 desirable herbaceous species. For comparison, the 30 plots in the Phase II Mitigation Bank site in June 2011 contained 36 herbaceous species excluding those designated as undesirable (*Cirsium arvense*). Thus  $36/14 = 257\%$  and the criterion is clearly exceeded.

CRITERION: "No more than 15% of individuals will be non-native, invasive, undesirable herbaceous species."

STATUS: This criterion is clearly met because *Cirsium arvense* constitutes only 2.8% of the total percentage of plant species observed in 2011.

### **13.1.3 Open Water**

CRITERION: "In open water areas there will be no more than a total of 15% cover of undesirable, non-native, invasive species."

STATUS: There are no parts of the Phase II Mitigation Bank wetland that contain surface water year-round. Nearly the entire site is inundated seasonally. Within that area, only one species deemed undesirable was present representing very minimal cover (as noted in 13.1.1 above).

What about  
13.1.2?

**APPENDIX A**

2011 VEGETATION SPECIES PERCENT COVER IN 30 QUADRATS AT AMAZON CREEK MITIGATION  
BANK WETLAND PHASE II







(Bare/Water)	*****	*****	20	10	0	0	0	2	3	0	5	0	0	25	0	10	20	0	5	5	95	0	2	0	0	5	0	1	1	0	20	1	230	
Agrostis exarata	2	FACW	0	0	0	0	0	0	0	0	35	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36		
Agrostis stolonifera	3	FAC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
Alopecurus geniculatus	1	OBL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Alopecurus pratensis	2	FACW	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	73	
Anthemis cotula	4	FACU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Beckmannia syzigachne	1	OBL	0	10	0	25	0	1	10	50	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	1	15	35	0	5	1	0	173
Bidens frondosa	2	FACW+	0	1	1	0	0	1	1	1	1	0	0	1	1	0	0	2	2	5	3	0	0	5	25	2	5	25	5	1	3	15	106	
Bromus hordeaceus	5	NOL	0	0	0	0	5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
Carex densa	1	OBL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	
Castilleja tenuis	5	NOL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Centaurium muehlenbergii	2	FACW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cerastium glomeratum	5	UPL	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cirsium arvense*	4	FACU+	1	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	
Cirsium vulgare	4	FACU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crepis capillaris	4	FACU	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Cuscuta pentagona	5	NOL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Deschampsia caespitosa	2	FACW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Deschampsia danthonioides	2	FACW-	0	5	15	10	0	5	5	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	66	
Downingia elegans	1	OBL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Echinochloa crus-galli	2	FACW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Eleocharis ovata	1	OBL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Eleocharis palustris	1	OBL	0	0	1	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Epilobium brachycarpum	5	UPL	0	0	0	0	0	0	0	5	0	0	15	3	0	0	5	0	15	0	0	0	0	0	10	0	0	0	0	2	0	0	56	
Epilobium ciliatum	2	FACW-	0	0	0	1	0	1	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
Fraxinus latifolia	2	FACW	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	
Galium aparine	4	FACU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
Galium parisiense	5	UPL	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Gnaphalium palustre	3	FAC+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Juncus bufonius	2	FACW	0	1	0	20	0	40	0	0	0	0	0	0	0	40	15	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	336
Lactuca serriola	4	FACU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lathyrus sylvestris	5	NOL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lotus mianthus	5	NOL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lotus unifoliatulus	5	NOL	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lythrum hyssopifolia	1	OBL	0	0	3	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	4	
Lythrum portula	1	OBL	0	5	15	30	0	85	75	20	35	0	0	15	75	25	10	75	80	55	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Mada gracilis	5	NOL	45	50	60	20	45	5	5	40	15	60	75	15	15	15	60	50	15	1	1	0	90	15	0	5	35	0	5	15	60	50	867	
Mada sativa	5	NOL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Mentha x piperita	4	FACU+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Mentha pulegium	1	OBL	0	15	2	15	0	0	5	1	10	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Myosotis discolor	2	FACW	20	0	0	0	0	0	0	0	0	10	5	0	0	0	0	0	0	0	0	0	10	5	0	0	0	0	0	0	0	0	0	50
Parentucellia viscosa	3	FAC-	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Paspalum distichum	2	FACW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Plagiobothrys figuratus	2	FACW	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Plagiobothrys scouleri	2	FACW	0	2	10	2	0	1	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Poa trivialis	2	FACW	15	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	38
Polygonum pensylvanicum	2	FACW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Populus trichocarpa	3	FAC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Psilocarphus elatior	2	FACW	0	1	5	10	0	5	15	15	1	0	0	5	60	40	2	40	25	1														



(Bare/Water)	*****	*****	20	10	0	0	0	0	2	3	0	5	0	0	25	0	10	20	0	5	5	95	0	2	0	0	5	0	1	1	0	20	1	230	
Agrostis exarata	2	FACW	0	0	0	0	0	0	0	0	0	35	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36		
Agrostis stolonifera	3	FAC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
Alopecurus geniculatus	1	OBL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Alopecurus pratensis	2	FACW	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	30	0	0	0	73	
Anthemis cotula	4	FACU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0		
Beckmannia syzigachne	1	OBL	0	10	0	25	0	1	10	50	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	1	15	35	0	5	1	0	173		
Bidens frondosa	2	FACW+	0	1	1	0	0	1	1	1	1	0	0	1	1	0	0	2	2	5	3	0	0	5	25	2	5	25	5	1	3	15	106		
Bromus hordeaceus	5	NOL	0	0	0	0	5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
Carex densa	1	OBL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	
Castilleja tenuis	5	NOL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	3	
Centaurium muehlenbergii	2	FACW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cerastium glomeratum	5	UPL	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3	
Cirsium arvense*	4	FACU+	1	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	
Cirsium vulgare	4	FACU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Crepis capillaris	4	FACU	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Cuscuta pentagona	5	NOL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Deschampsia caespitosa	2	FACW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Deschampsia danthonioides	2	FACW-	0	5	15	10	0	5	5	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	66
Downingia elegans	1	OBL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	0	0	11
Echinochloa crus-galli	2	FACW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Eleocharis ovata	1	OBL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Eleocharis palustris	1	OBL	0	0	1	0	0	0	0	5	0	0	0	15	3	0	0	0	5	0	15	0	0	0	10	0	0	0	0	0	2	0	0	56	
Epilobium brachycarpum	5	UPL	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
Epilobium ciliatum	2	FACW-	0	0	0	1	0	1	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Fraxinus latifolia	2	FACW	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	
Galium aparine	4	FACU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
Galium parisiense	5	UPL	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Gnaphalium palustre	3	FAC+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Juncus bufonius	2	FACW	0	1	0	20	0	40	0	0	0	0	0	0	40	15	0	30	0	0	0	0	0	0	20	40	0	0	0	70	60	0	0	336	
Lactuca scariola	4	FACU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lathyrus sylvestris	5	NOL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lotus micranthus	5	NOL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lotus unifoliatulus	5	NOL	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
Lythrum hyssopifolia	1	OBL	0	0	3	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	
Lythrum portula	1	OBL	0	5	15	30	0	85	75	20	35	0	0	15	75	25	10	75	80	55	0	0	0	90	75	30	3	85	85	80	0	40	1088		
Madia gracilis	5	NOL	45	50	60	20	45	5	5	40	15	60	75	15	15	60	50	15	1	1	0	90	13	0	5	35	0	5	15	60	50	867			
Madia sativa	5	NOL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Mentha x piperita	4	FACU+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Mentha pulegium	1	OBL	0	15	2	15	0	0	5	1	10	0	0	0	10	0	2	1	0	0	0	0	0	15	1	0	0	2	5	1	5	90			
Myosotis discolor	2	FACW	20	0	0	0	0	0	0	0	10	5	0	0	0	0	0	0	0	0	0	10	5	0	0	0	0	0	0	0	0	0	0	50	
Parentucellia viscosa	3	FAC-	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Paspalum distichum	2	FACW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Plagiobothrys figuratus	2	FACW	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	10	20	0	0	0	0	0	0	0	0	0	5	0	5	0	44		
Plagiobothrys scouleri	2	FACW	0	2	10	2	0	1	1	0	0	0	0	0	2	0	0	5	0	0	0	0	10	0	1	1	1	1	0	3	0	2	41		
Poa trivialis	2	FACW	15	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	38	
Polygonum pensylvanicum	2	FACW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Populus trichocarpa	3	FAC	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	100														

