Long Tom
Yr. 3 Mon. Report

Mitigation Monitoring Report Cover Sheet
Oregon Department of State Lands

Block 1: Report Information

DSL Permit Number 41168-RF COE Permit Number NWP-2007-719 Permittee EcoBank LLC
County Lane Report Date 06JUN11 Monitoring Year 1 2 3 4 5 __
Date Removal-Fill Activity Completed 31MAY11
Date mitigation was completed Grading 31MAY11 Planting Ongoing
Report submitted by: Timothy A. Acker

Block 2: Monitoring Report Purpose

This monitoring report is for monitoring a project that includes: (check all that apply):

- ☐ Compensatory **freshwater** wetland mitigation for permanent wetland impacts.
- ☐ Compensatory **estuarine** wetland mitigation for permanent wetland impacts.
- ☐ **Only non-wetland** compensatory mitigation.
- ☐ **Only mitigation for temporary** impacts that had a monitoring requirement.
- ☐ **Voluntary** wetland enhancement, creation or restoration (General authorization or individual permit) not funded with money from our wetland mitigation revolving fund.
- ☐ Voluntary wetland enhancement, creation or restoration (General authorization or individual permit) funded with money from **our wetland mitigation revolving fund**.
- ☒ **Mitigation Bank** Report
- ☐ Other _____

Block 3: Results

	Success Criteria	Met? (Y/N)	Comments/Reason for failure*
1.	>= 55% mean native cover (PEM)	Y	70% (CI99% 64-77%)
2.	<= 15% mean non-native invasive cover (PEM)	Y	0.05% (CI99% 0.00-0.15%)
3.	Moisture Index <3.0 (PEM)	Y	2.31 (CI99% 2.18-2.44)
4.	>= 10 wet prairie cohort species in plots (PEM)	Y	20
5.	>= 55% mean native cover (UPLAND) ⊞	Y	96% (CI99% 92-100%)
6.	<=15% mean non-native invasive cover (UPLAND) ⊞	Y	0.12% (CI99% 0-0.42%)
7.	Moisture Index >= 3.0 (UPLAND)	N	2.75 (CI99% 2.36-3.13)/Tufted hairgrass proving very competitive in the uplands skewing the M.I.
8.	Saturation or free water within 12" of the surface in growing season ⊞	Y	Based on certification wetland delineation fieldwork.
9.			
10.			

Remedial work recommended Yes ☐ No ☑
Deed Restriction or other protection instrument attached (note: if a filed deed restriction was required as a permit condition, please attach a copy): Yes ☐ No ☑
Final Monitoring Report? Yes ☐ No ☑
Requesting release or partial release of bond? Yes ☐ No ☑
* see report for detailed information

1.0 INTRODUCTION

This document constitutes the year 3 monitoring report for the activities authorized by Oregon Department of State Lands (DSL) permit 41168-RF and US Army Corps of Engineers (Corps) permit NWP-2007-719. This project is otherwise known as the Long Tom Mitigation Bank located in Section 26, Township 15S Range 05W, W.M. at the intersection of Cox Butte Road and Washburn Lane just west of Junction City, Lane County, Oregon.

The authorized activities included the installation of 7 steel-reinforced concrete weirs within two stream channels, and the construction of one large earthen berm. The purpose of these works is to raise the local water table and to retard drainage from the mitigation bank site in order to restore historic wetlands, create wetlands from uplands in certain areas, and to enhance farmed wetlands by providing more water depth zones and by promoting wetland hydrology further into the growing season.

In addition to the grading works the site was seeded as per plan in October 2008 to establish the herbaceous foundation for the various habitat areas (see Appendix A, Figure 1).

The purpose of this report is to present evidence of the performance of the bank relative to the standards set forth in the Mitigation Bank Instrument (MBI) in regards to vegetation and hydrology. Lastly, this report will propose actions for the remainder of 2011 designed to correct deficiencies and keep the bank on track to success.

2.0 VEGETATION

The focus of activities regarding vegetation in 20010-11 has been weed control, partial planting of the PFO management units, and plugging the wet prairie management units with various sedge, rush, and broadleaved herbaceous species in order to augment species diversity. Consequently, there are no results to report for the PSS, Upland savanna, or Upland forest management units due to deferring those plantings until all grading has been accomplished.

In 2010-11 600 12-18" *Fraxinus latifolia* seedlings were planted in conversion area 2 adjacent to Cox Butte Road, as well as in enhanced PFO areas 1 – 4 (see Appendix A, Figure 1). "Conversion areas" are defined here as those areas that were intended to remain upland in the original mitigation plan, but which were graded and planted in 2010 to make up for certain deficiencies in wetland acreage elsewhere on the property. Planted tree survival will be inventoried in July 2011 as per plan and results included in the year 4 monitoring report.

In addition, the following species were plugged into conversion areas 1, 7 and 8, and also in the enhanced wet prairie management unit west of the creeks: 2,000 *Carex densa*, 500 *Juncus acuminatus*, 2,000 *Juncus tenuis*, 1,200 *Juncus patens* and 2,500 *Ranunculus occidentalis*.

2.1 METHODS

One hundred thirty (130) permanent sample plots were established across the site, which is equivalent to a sampling density of 1 per acre (see Appendix A, Figure 2). One hundred fourteen (114) of the plots are located in wetland areas, and 16 plots are in uplands. Six plots are located in pre-existing forest cover; these plots were not sampled.

Fieldwork was conducted on 10-11MAY11 by Nancy Holzhauser (Environmental Solutions LLC) and John Koenig. One square meter ($1m^2$) quadrats were installed in the NE quadrant at each sample point and absolute cover by species was estimated by eye and recorded. Additional species observed between plots was also noted. One hundred eight (108) plots were located in wetland, 16 were located in upland.

An additional eight (8) sample plots were installed in the enhanced vernal pool management units in order to provide greater resolution in determining whether those areas are meeting mitigation plan standards.

Data was analyzed using ExcelMac 2011. The raw data can be found in Appendix C. Absolute cover was used to calculate Moisture Index scores; relative cover was used to calculate all other cover scores.

2.2 RESULTS

The following table presents the vegetation monitoring results relative to standards for the wetland, upland and vernal pool strata.

TABLE 1. Vegetation monitoring results versus MBI standards.

Wetland				
Performance Standard	Results			
	Mean	$CI_{99\%}$ low estimate	$CI_{99\%}$ high estimate	Standard Met?
>= 55% native cover	70%	64%	77%	YES
<= 15% non-native invasive cover	0.05%	0%	0.15%	YES
Moisture Index <3.0	2.31	2.18	2.44	YES
>= 10 Wet Prairie cohort species in plots	20			YES

TABLE 1. (continued)

Upland

Performance Standard	Results			
	Mean	$CI_{99\%}$ low estimate	$CI_{99\%}$ high estimate	Standard Met?
>= 55% native cover	96%	92%	100%	YES
<= 15% non-native invasive cover	0.12%	0%	0.42%	YES
Moisture Index >= 3.0	2.75	2.36	3.13	NO

2.3 DISCUSSION

The data analysis indicates that the site is currently meeting all standards except upland moisture index (although the standard is within the 99% CI), and that the reviewer can have high confidence that the sample reflects ground truth. This outcome is essentially the same as last year.The upland moisture index exception appears to be the result of *Deschampsia cespitosa* being able to compete successfully in upland habitats. Last year we predicted that this condition regarding upland moisture index will probably persist, and at least for this year we appear to be right.

The data also show that our weed control efforts continue to be paying off. Both mean non-native invasive and non-native cover remains stable at less than 1% and 3% respectively and is within the boundaries of their respective variations. Two species, *Lolium multiflorum* and *Festuca trachyphylla*, account for almost all of the non-native cover. The resurgence of *Lolium multiflorum* is due to our disturbing the seedbed as part of our remedial grading. Those areas have already been treated using our weed wiping wick and a grass-selective herbicide. Non-native invasive weeds in plots consisted of a trace of *Hypericum perforatum* on one plot.
In addition to species found on the sample plots, the following species were observed between plots: *Limnanthes alba*, *Juncus ensifolius*, *Sisyrinchium idahoense*, *Rumex crispus*, *Sanguisorba spp.**, *Carex obnupta*, *Ranunculus ucinatus*, and *Montia linearis** (* denotes Willamette Valley Wet Prairie Plant Cohort species). Additional between plot non-natives include *Cirsium vulgare* and *arvense*, *Phalaris arundinacea*, *Rubus armeniacus*, *Convolvulus arvensis*, *Senecio jacobea*, *Alopecurus pratensis* and *Mentha pulegium*. We anticipate keeping these species in check via our annual spot spray weed control patrols.

The data also indicates a mean relative bare cover of 25% overall – up from 11% last year and down from 36% the year before. This includes the results of our first time haying and burning the non-woody management units west of the streams. Interestingly, the mean relative bare cover for the burned area was 14%; whereas the mean relative bare cover for the unburned area was 38%.

Species diversity has increased markedly since the last monitoring period. The project has gone from 13 species Willamette Valley Wet Prairie Plant Cohort species in the plots last year to 20 this year (double what the standard requires). In addition, we conducted remedial grading in several areas in the fall of 2010, and seeded those areas with the following seed mix (* denotes Willamette Valley Wet Prairie Plant Cohort species not previously identified on the bank):

Deschampsia danthonoides*
Deschampsia elongata
Hordeum brachyantherum
Viola adunca*
Grindelia integrifolia
Saxifraga oregana*
Lupinis polyphyllus
Beckmania syzigachne
Allium amplectens*
Sanguisorba annua*
Perideridia oregana*
Microsteris gracillis*
Camassia quamash
Camassia leichtlinii*
Ranunculus orthorhynchus
Sidalcea cusickii*
Downingia yina*
Ranunculus occidentalis
Potentilla gracilis
Lomatium nudicaule

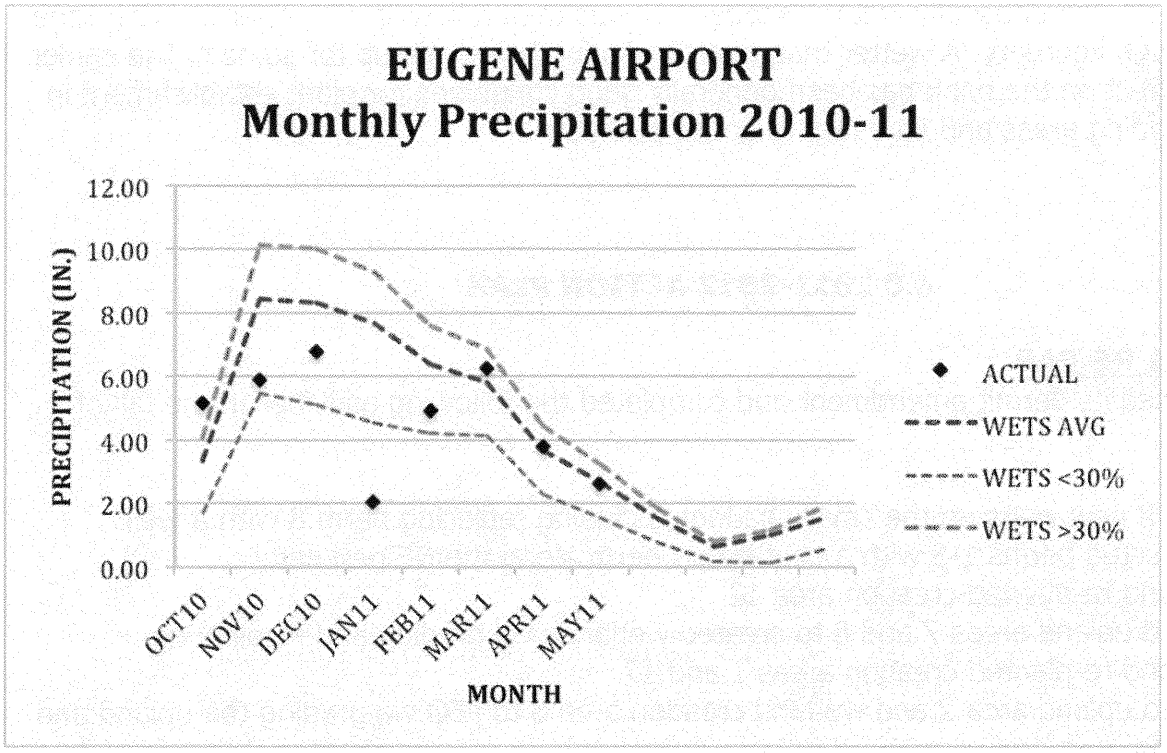
2.4 CONCLUSION

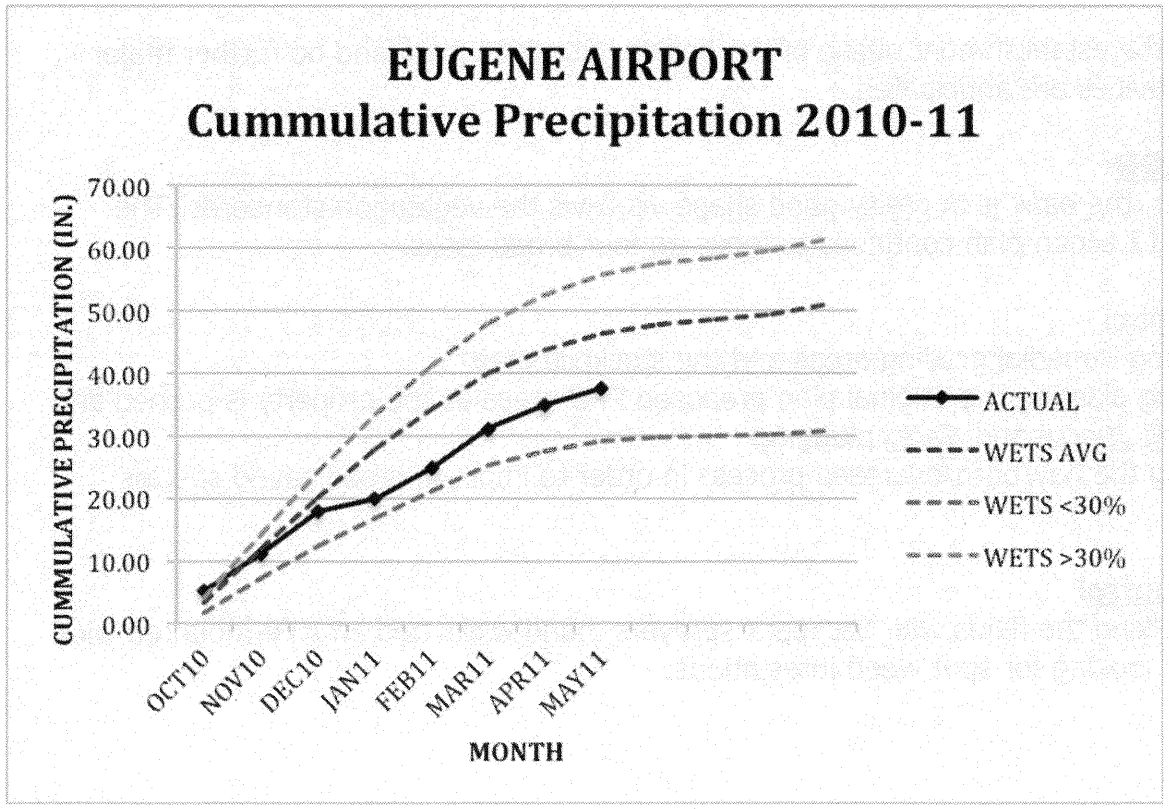
The data indicates that the Long Tom Mitigation Bank continues to meet standards as far as vegetation is concerned. The continuing challenge for the sponsors will be to maintain ongoing pressure on the weeds and to continue to perfect cost-effective ways to introduce additional native herbaceous species.

3.0 HYDROLOGY

3.1 PRECIPITATION CONTEXT

The 2010-11 water year has thus far been within the normal range, accumulating about 81 percent of normal precipitation based on the WETS long-term average at the Eugene Airport. The following charts show how the water year to-date compared to the WETS data.


EUGENE AIRPORT
Monthly Precipitation 2010-11
PRECIPITATION (IN.)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
OCT10
NOV10
DEC10
JAN11
FEB11
MAR11
APR11
MAY11
MONTH
ACTUAL
WETS AVG
WETS <30%
WETS >30%


EUGENE AIRPORT
Cummulative Precipitation 2010-11
CUMMULATIVE PRECIPITATION (IN.)
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
OCT10
NOV10
DEC10
JAN11
FEB11
MAR11
APR11
MAY11
MONTH
ACTUAL
WETS AVG
WETS <30%
WETS >30%

The water year started unusually wet in October but was then followed by a drier than average November through February. A wetter than average spring has made up for some of the earlier shortfall. The effect on the bank has been generally good conditions for plant establishment in the remedial grading areas and little loss to goose pull-out.

4.0 2011-2012 ACTION PLAN

4.1 2010-2011 RE-CAP

EcoBank exercised its permit amendment and completed the following activities in the fall of 2010:

1. Installed 2 new weirs on the small channel, including replacing berm 8 with a weir
2. Reconstructed berms 1-5 with a continuous berm along the NE perimeter
3. Graded and re-planted creation area 12
4. Converted upland areas 7 and 8 to created wetlands via grading and re-planting
5. Graded and re-planted creation areas 1 and 17
6. Converted upland area 2 and wetland creation area 8 to PFO via grading the upland and re-planting
7. Installed a porous ford in the large channel just north of weir 5.

This completes the establishment phase of the bank's mitigation plan, and no further major earthmoving activities are anticipated.

4.3 VEGETATION

As shown earlier, the bank is in pretty good shape vis-à-vis the vegetation standards. The proposed 2011-12 action plan continues to focus on four broad tasks:

1. Weed control
2. Re-planting remedial grading areas and the stockpile area
3. Continuing planting the original plan proposed PFO areas as the property is burned and continuing *Juncus* and *Carex* plugging
4. Perfecting the hay/burn/overseed process in order to improve broadleaved species diversity

4.3.1 Weed Control

We continue walking the fields with backpack sprayers, hand wicks and an ATV-mounted wick and spray wand looking for spot weed infestations.

4.3.2 Re-Planting Remedial Grading Areas & Stockpile Area

Contrary to the planting plan stated in last year's report, instead of a meadowfoam cover crop for a year we went ahead and planted the full palette of species in one motion. This decision was based on the results of our previous germination tests and our assessment of the condition of the subsoil. We amended the remedial areas by disking several tons of our native hay into the graded subsoil. We believed that the most likely non-native competitor would be *Lolium multiflorum*, and we were confident we had learned how to handle that species. Subsequent experience to-date has proven us out.

The remedial grading produced more soil than was needed to construct the perimeter berm; consequently, we have stockpiled the surplus on proposed forested upland area 6. Some of the stockpile was removed by a landscaping contractor last fall, and we expect the remainder to be removed this coming summer. Once back to original grade we will re-seed the area using the original seed mix sans the *Deschampsia cespitosa*.

4.3.3 Continuing Implementation of the Original Planting Plan

PFO tree planting should be completed this coming winter after the middle and eastern fields are burned. We are switching stock size from D40 to 12-18" bare root due to the poor economy precluding economical production at our own nursery, and difficulties during the past two winters keeping the stock from freezing. At this time we anticipate having all the PFO areas planted by December 2011-March 2012, after which the focus will shift to planting the upland forested areas.

In addition, the planned *Juncus* and *Carex* plugging will proceed following the burning schedule in order to take advantage of the temporary increase in bare ground.

4.3.4 Burning

The 2010 haying and burning was a success. Although the hay remains stockpiled on a rock pad near the Cox Butte Road gate, we are optimistic it will be sold before the new crop comes on. We continue to develop relationships with nearby buyers, and are hopeful that we can parlay this valuable ecological tool into a viable side business for the bank.

The impact of burning the western field has been striking. The bare spots thus created have been quickly colonized by vigorous germinates. The contrast with the eastern field is stark, where last year's grass forms a thick thatch under which barely anything is coming up. Based on this experience, it appears that an every other year burning schedule may be more appropriate in order to promote species recruitment and plant vigor, and at least for now that forms the basis of our intentions going forward.

4.3.4 Miscellaneous

In regards to security, we have had no unauthorized trespass in the past year, and all access points remain securely gated The next security-related chore will be to replace the perimeter fences along Cox Butte Road and Washburn Lane; however, this will have to wait until the economy improves.

Nutria continue to be a perpetual threat, although we have not observed them on the bank since construction of the berm. Nonetheless, we have installed a nutria-proof barrier on the inside of the berm adjacent to standing water using permanent erosion control blankets. We will continue shooting and trapping them as the opportunity arises. Lastly, we have suffered some losses among the planted *Fraxinus latifolia* due to beaver and vole girdling, but nothing warranting a response to-date.

5.0 LEDGER

As of this date the Long Tom Mitigation Bank has sold 10.28 credits of the original 18.00 credit advance release. The master ledger can be found in Appendix E.

6.0 CONCLUSION

The monitoring data indicate that the Long Tom Mitigation Bank continues to achieve its performance goals. We have completed the certification delineation fieldwork and are currently writing up the report. We expect to petition DSL and the Corps for bank certification, release of the credit allotment, and adjustment of the performance security within the next couple of months.

APPENDIX A

FIGURES

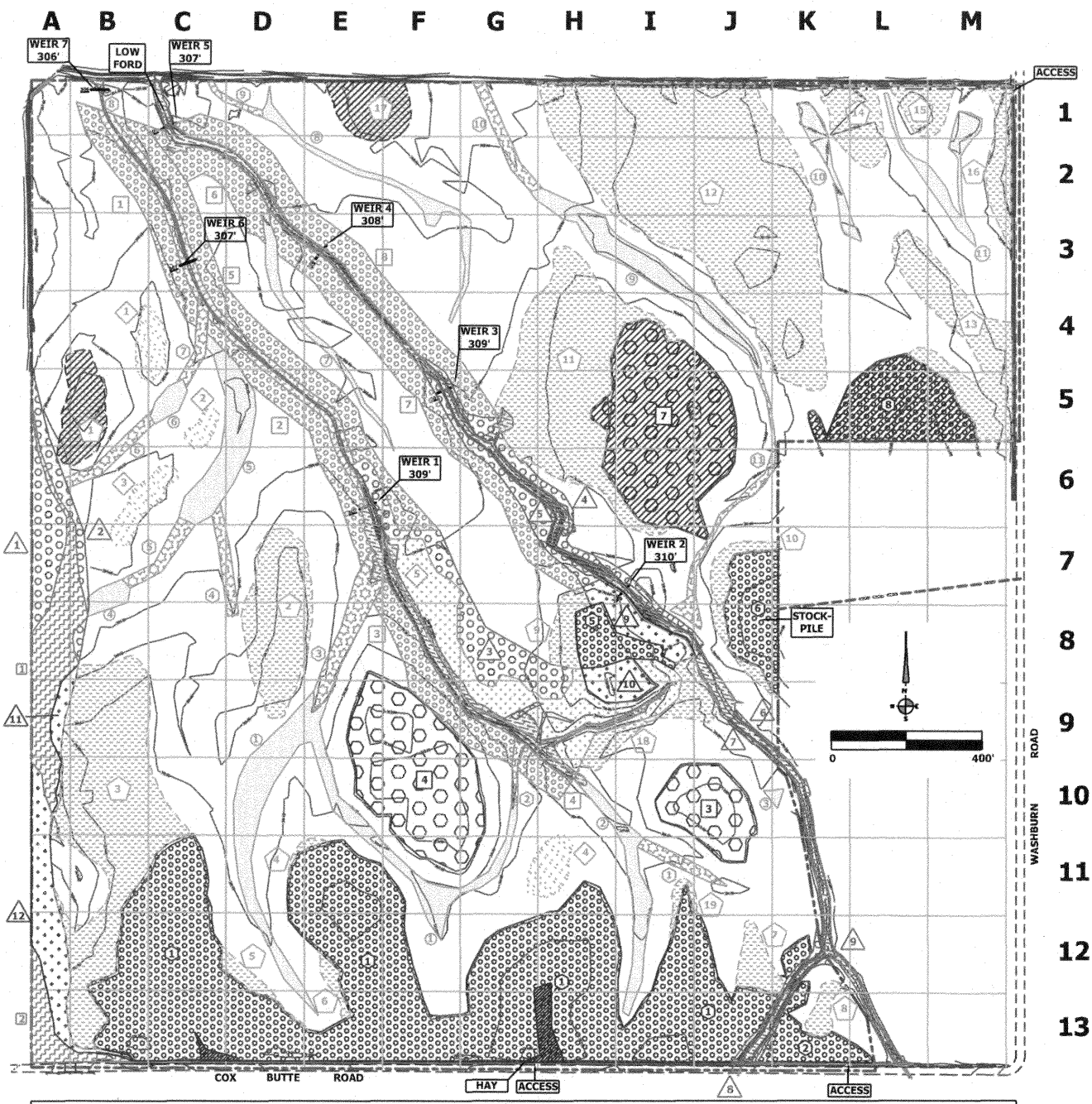
APPENDIX B

VIEWS FROM PERMANENT PHOTO POINTS

EcoBank LLC
38863 Scravel Hill Road NE
Albany OR 97322-9554
Phone 541-327-3427
Cell 503-871-5472
www.OregonMitigationCredits.com

Proposed Habitat Management Areas

Figure 1 of 2



LEGEND

PROPERTY BOUNDARY

CONVERSION AREAS

UPLANDS

EXISTING FORESTED UPLAND (2.13 ACS.)

PROPOSED FORESTED UPLAND (14.12 ACS.)

PROPOSED SAVANNA (6.95 ACS.)

WETLANDS & STREAMS

RESTORED PFO (2.31 ACS.)

RESTORED WET PRAIRIE (1.10 ACS.)

CREATED WET PRAIRIE (23.39 ACS.)

ENHANCED PFO (8.25 ACS.)

ENHANCED PSS (3.02 ACS.)

ENHANCED VERNAL POOL (5.80 ACS.)

ENHANCED WET PRAIRIE (60.68 ACS.)

REMAINING PFO (3.79 ACS.)

OHW (1.96 ACS.)

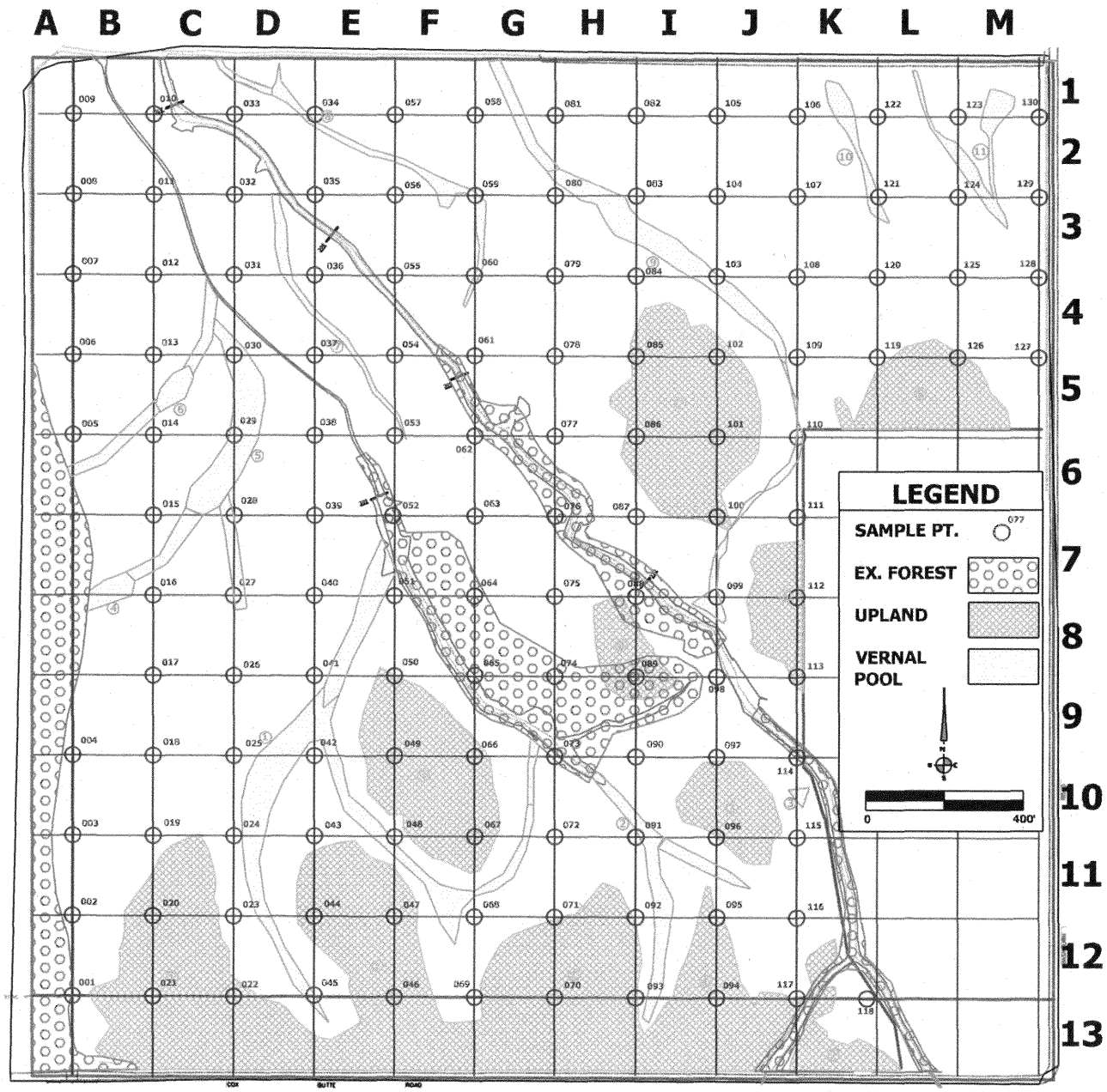
SLOUGH (1.71 ACS.)

PROPOSED FORESTED UPLAND NOT AVAILABLE FOR CREDIT AS BUFFER (0.29 AC.)

EcoBank LLC
38863 Scravel Hill Road NE
Albany OR 97322-9554
Phone 541-327-3427
Cell 503-871-5472
www.OregonMitigationCredits.com

Vegetation Sample Plot Locations

Figure 2 of 2



APPENDIX C

RAW VEGETATION PLOT DATA

APPENDIX D

CREDIT SALES LEDGER

LATIN	INDICATOR STATUS	I/N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Achillea millefolium	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	20	25	0
Agrostis exarata*	FACW	N	0	10	10	5	5	5	40	20	10	0	25	15	35	20	25	20	0	15	50	20	15	10	30
Epilobium brachycarpum	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alopecurus geniculatus*	OBL	N	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beckmania syzigachne*	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bromus carinatus	UPL	N	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Camassia quamash*	FACW	N	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	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Downingia elegans	OBL	N	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Danthonia californica*	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Deschampsia cespitosa*	FACW	N	0	0	65	25	40	5	35	30	25	75	60	75	50	70	35	70	50	60	20	65	60	20	45
Festuca roemeri*	FACU	N	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fraxinus latifolia	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyceria occidentalis*	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grindelia integrifolia	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Juncus bufonius	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Juncus tenuis	FACW	N	0	0	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0
Lotus micranthus*	NOL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotus unifoliatus*	UPL	N	0	1	5	0	1	0	0	0	0	0	0	0	0	1	0	1	15	20	20	1	1	0	0
Lupinus polyphyllus*	FAC	N	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*	FACW	N	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prunella vulgaris*	FACU	N	0	10	5	1	0	0	0	1	50	1	2	1	0	0	0	1	20	0	5	0	0	5	0
Ranunculus occidentalis*	FAC	N	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	FACW	N	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cardamine oligosperma	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cerastium arvense	FACU	N	0	0	0	1	5	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
Galium aparine	FACU	N	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Epilobium ciliatum	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnaphalium palustre	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lupinus bicolor	UPL	N	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rorippa curvisiliqua	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Callitriche spp.	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rumex salicifolius	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Festuca rubra	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boidsduvalia densiflora	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potentilla gracilis	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Deschampsia elongata	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Madia glomerata	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lomatium nudicaule	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Montia fontana	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranunculus orthorhynchus	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lolium multiflorum	FACU	I	40	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vicia sativa	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geranium molle	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geranium dissectum	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Senecio jacobaea	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poa annua	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubus armenianus	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plantago major	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Myosotis discolor	FACW	I	0	0	0	0	0	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Anthemis cotula	FACU	I	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arctium minus	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daucus carota	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Lathyrus sylvestris	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Festuca trachyphylla	FACU	I	0	50	10	50	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0
Hypericum perforatum	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bare			5	30	5	20	25	50	25	50	15	25	10	10	15	10	40	10	15	5	5	10	5	0	25
			100	101	100	103	97	106	101	102	100	101	100	101	100	103	100	102	100	102	101	102	101	101	100

* denotes part of composite mix

Color Codes: PEM, Vernal Pool, Upland, Existing Upland Forest

LATIN	INDICATOR STATUS	I/N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Achillea millefolium	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	20	25	0
Agrostis exarata*	FACW	N	0	10	10	5	5	5	40	20	10	0	25	15	35	20	25	20	0	15	50	20	15	10	30
Epilobium brachycarpum	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alopecurus geniculatus*	OBL	N	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beckmania syzigachne*	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bromus carinatus	UPL	N	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Camassia quamash*	FACW	N	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	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Downingia elegans	OBL	N	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Danthonia californica*	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Deschampsia cespitosa*	FACW	N	0	0	65	25	40	5	35	30	25	75	60	75	50	70	35	70	50	60	20	65	60	20	45
Festuca roemeri*	FACU	N	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fraxinus latifoila	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyceria occidentalis*	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grindelia integrifolia	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Juncus bufonius	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Juncus tenuis	FACW	N	0	0	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0
Lotus micranthus*	NOL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotus unifoliatus*	UPL	N	0	1	5	0	1	0	0	0	0	0	0	0	0	1	0	1	15	20	20	1	1	0	0
Lupinus polyphyllus*	FAC	N	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*	FACW	N	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prunella vulgaris*	FACU	N	0	10	5	1	0	0	0	1	50	1	2	1	0	0	0	1	20	0	5	0	0	5	0
Ranunculus occidentalis*	FAC	N	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	FACW	N	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cardamine oligosperma	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cerastium arvense	FACU	N	0	0	0	1	5	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
Galium aparine	FACU	N	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Epilobium ciliatum	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnaphalium palustre	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lupinus bicolor	UPL	N	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rorippa curvisiliqua	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Callitriche spp.	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rumex salicifolius	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Festuca rubra	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boidsduvalia densiflora	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potentilla gracilis	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Deschampsia elongata	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Madia glomerata	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lomatium nudicaule	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Montia fontana	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranunculus orthorhynchus	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lolium multiflorum	FACU	I	40	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vicia sativa	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geranium molle	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geranium dissectum	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Senecio jacobaea	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poa annua	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubus armenianus	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plantago major	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Myosotis discolor	FACW	I	0	0	0	0	0	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Anthemis cotula	FACU	I	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arctium minus	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daucus carota	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Lathyrus sylvestris	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Festuca trachyphylla	FACU	I	0	50	10	50	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0
Hypericum perforatum	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bare			5	30	5	20	25	50	25	50	15	25	10	10	15	10	40	10	15	5	5	10	5	0	25
			100	101	100	103	97	106	101	102	100	101	100	101	100	103	100	102	100	102	101	102	101	101	100

* denotes part of composite mix

Color Codes: PEM, Vernal Pool, Upland, Existing Upland Forest

LATIN	INDICATOR STATUS	I/N	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
Achillea millefolium	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Agrostis exarata*	FACW	N	25	25	20	10	40	20	30	10	0	10	5	0	0	10	30	30	20	60	30	35	5	15	30
Epilobium brachycarpum	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Alopecurus geniculatus*	OBL	N	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beckmania syzigachne*	OBL	N	0	0	0	5	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bromus carinatus	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Camassia quamash*	FACW	N	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	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Downingia elegans	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Danthonia californica*	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Deschampsia cespitosa*	FACW	N	50	50	60	60	40	40	45	60	75	60	35	25	80	85	35	60	60	25	60	55	80	65	55
Festuca roemeri*	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0
Fraxinus latifoila	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyceria occidentalis*	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grindelia integrifolia	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Juncus bufonius	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Juncus tenuis	FACW	N	1	0	5	0	1	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
Lotus micranthus*	NOL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotus unifoliatus*	UPL	N	0	1	0	0	0	0	0	0	0	5	0	0	0	0	10	1	1	5	2	5	0	1	0
Lupinus polyphyllus*	FAC	N	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagiobothrys figuratus*	FACW	N	0	0	0	1	0	0	0	10	0	0	25	0	0	0	0	0	0	0	0	0	0	0	1
Prunella vulgaris*	FACU	N	0	15	10	0	5	0	0	0	0	15	0	0	1	2	1	5	15	0	2	1	0	5	1
Ranunculus occidentalis*	FAC	N	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	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Cardamine oligosperma	FAC	N	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Cerastium arvense	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Galium aparine	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Epilobium ciliatum	FACW	N	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Gnaphalium palustre	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lupinus bicolor	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rorippa curvisiliqua	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Callitriche spp.	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rumex salicifolius	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Festuca rubra	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boidsduvalia densiflora	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potentilla gracilis	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Deschampsia elongata	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Madia glomerata	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lomatium nudicaule	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Montia fontana	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
Ranunculus orthorhynchus	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lolium multiflorum	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vicia sativa	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geranium molle	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geranium dissectum	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Senecio jacobaea	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poa annua	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Rubus armenianus	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plantago major	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Myosotis discolor	FACW	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Anthemis cotula	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arctium minus	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daucus carota	UPL	I	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	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Festuca trachyphylla	FACU	I	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Hypericum perforatum	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bare			25	5	5	25	15	40	25	20	25	10	35	75	20	3	5	5	5	10	6	5	10	15	0
SUM			101	98	100	101	101	116	100	101	100	100	101	100	101	102	103	101	101	102	101	101	100	101	103

* denotes part of composite mix

Color Codes: PEM, Vernal Pool, Upland, Existing Upland Forest

LATIN	INDICATOR STATUS	I/N	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69
Achillea millefolium	FACU	N	5	0	0	55	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	30	65	0	0
Agrostis exarata*	FACW	N	10	25	15	15	30	5	0	5	15	40	0	0	0	0	0	0	10	-	-	0	5	15	15
Epilobium brachycarpum	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	-	-	0	0	0	0
Alopecurus geniculatus*	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	1	0	0	0
Beckmania syzigachne*	OBL	N	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Bromus carinatus	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Camassia quamash*	FACW	N	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Eleocharis palustris	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Downingia elegans	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Danthonia californica*	FACU	N	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Deschampsia cespitosa*	FACW	N	10	55	5	5	40	0	40	30	20	15	40	40	20	60	50	80	50	-	-	65	25	65	15
Festuca roemeri*	FACU	N	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Fraxinus latifoila	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Glyceria occidentalis*	OBL	N	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Grindelia integrifolia	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Juncus bufonius	FACW	N	0	10	5	0	10	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Juncus tenuis	FACW	N	0	0	0	0	5	60	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	5
Lotus micranthus*	NOL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Lotus unifoliatus*	UPL	N	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	-	-	0	0	1	0
Lupinus polyphyllus*	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Plagiobothrys figuratus*	FACW	N	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Prunella vulgaris*	FACU	N	1	0	1	0	10	5	15	1	0	0	0	0	0	0	0	10	30	-	-	0	0	5	60
Ranunculus occidentalis*	FAC	N	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Plagiobothrys scouleri	FACW	N	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	-	-	0	0	0	0
Cardamine oligosperma	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Cerastium arvense	FACU	N	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Galium aparine	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Epilobium ciliatum	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Gnaphalium palustre	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Lupinus bicolor	UPL	N	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	-	-	1	0	0	0
Rorippa curvisiliqua	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Callitriche spp.	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Rumex salicifolius	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Festuca rubra	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Boidsduvalia densiflora	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Potentilla gracilis	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Deschampsia elongata	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Madia glomerata	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Lomatium nudicaule	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Montia fontana	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Ranunculus orthorhynchus	FACW	N	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Lolium multiflorum	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	1	0	0	0
Vicia sativa	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Geranium molle	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Geranium dissectum	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Senecio jacobaea	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Poa annua	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	1	0	0	0
Rubus armenianus	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Plantago major	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Myosotis discolor	FACW	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	1	0	0	0
Anthemis cotula	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Arctium minus	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Daucus carota	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Lathyrus sylvestris	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Festuca trachyphylla	FACU	I	50	0	60	25	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	1	0	0	0
Hypericum perforatum	FAC	I	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	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Bare			20	10	20	0	5	5	45	65	65	5	60	60	80	40	50	10	10	-	-	5	5	15	5
SUM			98	100	111	100	104	102	102	102	102	100	100	100	100	101	100	100	101	0	0	106	100	101	100

* denotes part of composite mix

Color Codes: PEM, Vernal Pool, Upland, Existing Upland Forest

LATIN	INDICATOR STATUS	I/N	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92
Achillea millefolium	FACU	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Agrostis exarata*	FACW	N	5	15	5	5	-	5	-	0	0	0	0	1	0	0	0	0	0	0	-	-	20	15	15
Epilobium brachycarpum	UPL	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Alopecurus geniculatus*	OBL	N	0	1	0	0	-	0	-	0	0	0	0	0	0	0	0	10	0	0	-	-	0	0	0
Beckmania syzigachne*	OBL	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Bromus carinatus	UPL	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Camassia quamash*	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Eleocharis palustris	OBL	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Downingia elegans	OBL	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Danthonia californica*	FACU	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Deschampsia cespitosa*	FACW	N	80	80	45	20	-	75	-	60	60	80	80	50	60	30	70	30	5	90	-	-	50	55	45
Festuca roemeri*	FACU	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Fraxinus latifoila	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Glyceria occidentalis*	OBL	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	10	0	-	-	0	0	0
Grindelia integrifolia	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Juncus bufonius	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	1	5	0
Juncus tenuis	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Lotus micranthus*	NOL	N	0	0	0	0	-	1	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Lotus unifoliatus*	UPL	N	1	0	25	5	-	5	-	20	0	0	0	0	0	0	0	0	0	0	-	-	0	5	0
Lupinus polyphyllus*	FAC	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Plagiobothrys figuratus*	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	5	0
Prunella vulgaris*	FACU	N	1	1	10	30	-	25	-	5	0	0	0	0	0	0	0	0	0	5	-	-	20	5	25
Ranunculus occidentalis*	FAC	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Plagiobothrys scouleri	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Cardamine oligosperma	FAC	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Cerastium arvense	FACU	N	1	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Galium aparine	FACU	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Epilobium ciliatum	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Gnaphalium palustre	FAC	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	1	0	-	-	0	0	0
Lupinus bicolor	UPL	N	0	0	1	0	-	0	-	1	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Rorippa curvisiliqua	OBL	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Callitriche spp.	OBL	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Rumex salicifolius	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Festuca rubra	FAC	N	0	0	0	40	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Boidsduvalia densiflora	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Potentilla gracilis	FAC	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Deschampsia elongata	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Madia glomerata	FACU	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Lomatium nudicaule	UPL	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Montia fontana	OBL	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Ranunculus orthorhynchus	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Lolium multiflorum	FACU	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	10	0	-	-	0	0	0
Vicia sativa	UPL	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Geranium molle	FACU	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Geranium dissectum	UPL	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Senecio jacobaea	FACU	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Poa annua	FAC	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Rubus armenianus	FACU	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Plantago major	FACU	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	1	0	0	-	-	0	0	5
Myosotis discolor	FACW	I	0	0	0	0	-	0	-	0	0	0	0	0	1	0	0	0	0	0	-	-	0	0	0
Anthemis cotula	FACU	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Arctium minus	UPL	I	0	0	5	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Daucus carota	UPL	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Lathyrus sylvestris	UPL	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Festuca trachyphylla	FACU	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Hypericum perforatum	FAC	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
			0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Bare			10	5	15	5	-	0	-	15	40	20	20	50	40	70	30	60	75	5	-	-	10	15	10
SUM			98	102	106	105	-	111	-	101	100	100	100	101	101	100	100	101	101	100	-	-	101	105	100

* denotes part of composite mix

Color Codes: PEM, Vernal Pool, Upland, Existing Upland Forest

LATIN	INDICATOR STATUS	I/N	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115
Achillea millefolium	FACU	N	0	75	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	5	5	0
Agrostis exarata*	FACW	N	15	5	25	15	10	15	0	0	0	5	0	0	0	1	5	1	20	0	20	0	10	15	10
Epilobium brachycarpum	UPL	N	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0
Alopecurus geniculatus*	OBL	N	0	0	5	0	1	10	0	5	1	10	0	0	0	0	0	10	0	0	0	45	30	5	0
Beckmania syzigachne*	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bromus carinatus	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Camassia quamash*	FACW	N	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	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Downingia elegans	OBL	N	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Danthonia californica*	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Deschampsia cespitosa*	FACW	N	65	15	60	50	65	0	85	50	0	10	85	60	60	90	5	15	30	100	80	0	25	0	80
Festuca roemeri*	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fraxinus latifoila	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyceria occidentalis*	OBL	N	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Grindelia integrifolia	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Juncus bufonius	FACW	N	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Juncus tenuis	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Lotus micranthus*	NOL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotus unifoliatus*	UPL	N	0	1	0	25	5	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0
Lupinus polyphyllus*	FAC	N	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0	0	0	0
Plagiobothrys figuratus*	FACW	N	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	3	0	0	0	0	0	0	0
Prunella vulgaris*	FACU	N	0	0	1	1	15	1	5	10	0	0	0	5	0	5	0	2	1	0	0	1	0	80	0
Ranunculus occidentalis*	FAC	N	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	FACW	N	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cardamine oligosperma	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cerastium arvense	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
Galium aparine	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Epilobium ciliatum	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnaphalium palustre	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lupinus bicolor	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Rorippa curvisiliqua	OBL	N	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Callitriche spp.	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rumex salicifolius	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Festuca rubra	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boidsduvalia densiflora	FACW	N	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Potentilla gracilis	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Deschampsia elongata	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0
Madia glomerata	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lomatium nudicaule	UPL	N	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Montia fontana	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranunculus orthorhynchus	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lolium multiflorum	FACU	I	0	0	1	0	0	0	0	0	1	5	0	0	0	0	25	15	0	0	0	10	5	0	0
Vicia sativa	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Geranium molle	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geranium dissectum	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Senecio jacobaea	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poa annua	FAC	I	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	5	5	0	0
Rubus armenianus	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plantago major	FACU	I	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Myosotis discolor	FACW	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Anthemis cotula	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arctium minus	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daucus carota	UPL	I	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	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Festuca trachyphylla	FACU	I	0	15	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypericum perforatum	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bare			10	5	10	5	5	75	10	35	60	70	15	30	40	5	65	63	50	0	0	15	15	0	10
SUM			100	116	104	104	102	103	100	100	103	105	100	100	102	101	100	119	101	100	100	101	97	117	100

* denotes part of composite mix

Color Codes: PEM, Vernal Pool, Upland, Existing Upland Forest

LATIN	INDICATOR STATUS	I/N	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130
Achillea millefolium	FACU	N	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Agrostis exarata*	FACW	N	5	5	5	1	0	0	0	20	10	0	0	10	0	0	5
Epilobium brachycarpum	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alopecurus geniculatus*	OBL	N	0	0	0	90	0	0	0	0	0	0	30	10	0	0	0
Beckmania syzigachne*	OBL	N	0	0	0	0	0	5	0	0	0	0	0	1	1	0	0
Bromus carinatus	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Camassia quamash*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eleocharis palustris	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Downingia elegans	OBL	N	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Danthonia californica*	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Deschampsia cespitosa*	FACW	N	70	40	80	0	10	15	30	60	55	50	10	20	15	5	35
Festuca roemeri*	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fraxinus latifoila	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyceria occidentalis*	OBL	N	0	0	0	1	0	0	0	0	0	0	0	5	0	0	0
Grindelia integrifolia	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Juncus bufonius	FACW	N	5	0	0	0	0	0	0	0	0	0	1	1	0	0	0
Juncus tenuis	FACW	N	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotus micranthus*	NOL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotus unifoliatus*	UPL	N	1	15	0	0	1	0	0	0	1	0	0	0	0	0	0
Lupinus polyphyllus*	FAC	N	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagiobothrys figuratus*	FACW	N	0	0	0	10	0	0	0	0	0	0	1	0	0	0	0
Prunella vulgaris*	FACU	N	1	20	1	0	0	0	0	10	0	5	1	15	0	0	40
Ranunculus occidentalis*	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagiobothrys scouleri	FACW	N	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Cardamine oligosperma	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cerastium arvense	FACU	N	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Galium aparine	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Epilobium ciliatum	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnaphalium palustre	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lupinus bicolor	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rorippa curvisiliqua	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Callitriche spp.	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rumex salicifolius	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Festuca rubra	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boidsduvalia densiflora	FACW	N	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Potentilla gracilis	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Deschampsia elongata	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Madia glomerata	FACU	N	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Lomatium nudicaule	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Montia fontana	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranunculus orthorhynchus	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lolium multiflorum	FACU	I	0	0	0	0	0	0	0	0	0	0	10	1	0	0	0
Vicia sativa	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geranium molle	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geranium dissectum	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Senecio jacobaea	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poa annua	FAC	I	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Rubus armenianus	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plantago major	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Myosotis discolor	FACW	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Anthemis cotula	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arctium minus	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daucus carota	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lathyrus sylvestris	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Festuca trachyphylla	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypericum perforatum	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bare			15	5	15	0	90	80	70	10	35	45	40	40	85	95	20
SUM			103	100	102	103	101	100	100	100	101	100	98	103	101	100	100
* denotes part of composite mix																	

Color Codes: PEM, Vernal Pool, Upland, Existing Upland Forest																

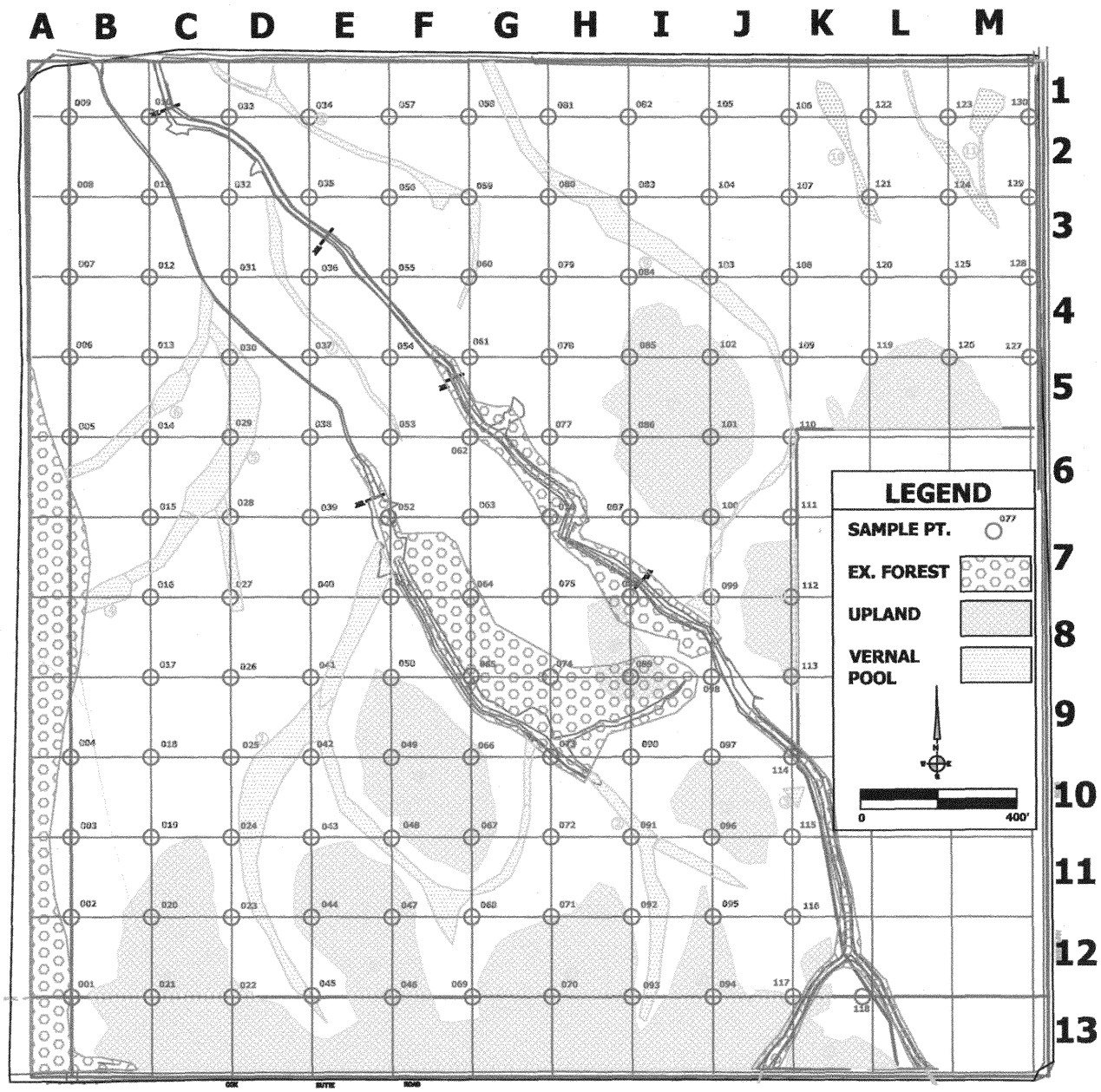
LONG TOM MITIGATION BANK PHASE 1 CREDIT LEDGER

Permittee Name	Corps No.	DSL No.	Project Name	Impact HUC	Impact Acs.	Date	Credits Sold		Credit Bal.
					Beginning credit balance				18.00
Samaritan Albany General Hospital	NWP-2008-282	40496-RF	Evergreen Hospice	1709000304	0.85	2/26/09	0.85		17.15
City of Monroe	2007-00149-1	37980-FP	Wastewater Treatment Project	1709000302	0.77	3/9/09	0.77		16.38
Oregon Military Department	NWP-2008-569/1	42154-FP	Camp Adair Access Roads	1709000306	0.30	6/2/09	0.30		16.08
City of Junction City	N/A	N/A	Unspecified future projects	17090003	1.09	3/18/10	1.09		14.99
Phil Heer	2009-00362	6950-ENF	Violation	1709000301	1.29	3/31/10	1.29		13.70
Robert Brink Violation	N/A	ENF-3724	Robert Brink dba Rosewood Ltd	1709000301	2.00	5/10/10	2.00		11.70
Lane Forest Products, Inc.	NWP-2009-458-1	APP0043731	Lane Forest Products, Inc.	1709000301	1.58	5/29/10	1.58		10.12
Robert Brink Violation	N/A	ENF-3724	Robert Brink dba Rosewood Ltd	1709000301	1.00	10/6/10	1.00		9.12
City of Philomath	NWP-2009-00626	43699-FP	Water Treatment Plant	1709000305	7.20	10/7/10	1.40		7.72
TOTAL							10.28		7.72

EcoBank LLC
38863 Scravel Hill Road NE
Albany OR 97322-9554
Phone 541-327-3427
Cell 503-871-5472
www.OregonMitigationCredits.com

Vegetation Sample Plot Locations

Figure 2 of 2



Data collected on 5/14/12

LATIN	INDICATOR STATUS	I/N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Achillea millefolium	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	5	0
Agrostis exarata*	FACW	N	0	1	5	0	0	5	5	5	1	5	1	10	0	10	0	5	0	1	0	0	20	10	0
Alopecurus geniculatus	OBL	N	1	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beckmania syzigachne	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boidsduvalia densiflora*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Briza minor	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bromus carinatus	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Camassia quamash*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cardamine oligosperma	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Cerastium arvense	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cirsium arvense	FACU	I	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Danthonia californica*	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Deschampsia cespitosa*	FACW	N	10	10	40	40	80	50	65	85	80	50	95	90	100	75	90	90	85	70	75	85	10	20	90
Deschampsia elongata*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Downingia elegans*	OBL	N	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	OBL	N	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	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Epilobium ciliatum*	FACW	N	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Festuca roemeri	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Festuca trachyphylla	FACU	I	0	40	5	40	10	0	0	0	0	0	0	0	0	0	0	0	1	5	1	10	65	45	0
Fraxinus latifoila	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Galium aparine	FACU	N	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geranium dissectum	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyceria occidentalis	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnaphalium palustre	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grindelia integrifolia*	FACW	N	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holcus lanatus	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hordeum brachyantherum	FACW	N	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypochaeris radicata	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Juncus bufonius*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Juncus effusus	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Juncus tenuis*	FACW	N	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
Lactuca serriola	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lolium multiflorum	FACU	I	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lomatium nudicaule*	FACU	N	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	NOL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotus unifoliatus	UPL	N	0	0	5	1	1	0	0	0	0	1	0	0	0	1	1	0	15	20	10	1	1	1	1
Lupinus bicolor	UPL	N	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lupinus polyphyllus*	FAC	N	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Myosotis discolor	FACW	I	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Nemophila parviflora	FAC	N	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parentucelia viscosa	FAC	I	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*	FACW	N	0	0	0	0	0	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagiobothrys scouleri*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plantago major	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poa annua	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poa trivialis	FACW	I	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
Potentilla gracilis*	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prunella vulgaris*	FACU	N	0	1	0	1	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Ranunculus occidentalis*	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranunculus orthorhynchus*	FACW	N	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranunculus ucinatus	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rorippa curvisiliqua	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubus ameniacus	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rumex salicifolius	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sonchus asper	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stelleria media	FACU	I	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sisyrinchium augustifolium	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vicia sativa	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vulpia bromoides	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vulpia myuros	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bare			40	50	50	20	10	30	30	10	10	40	5	0	0	15	10	5	0	10	15	5	5	20	10

Gold = UPL
red = WV wet prairie
blue = VP

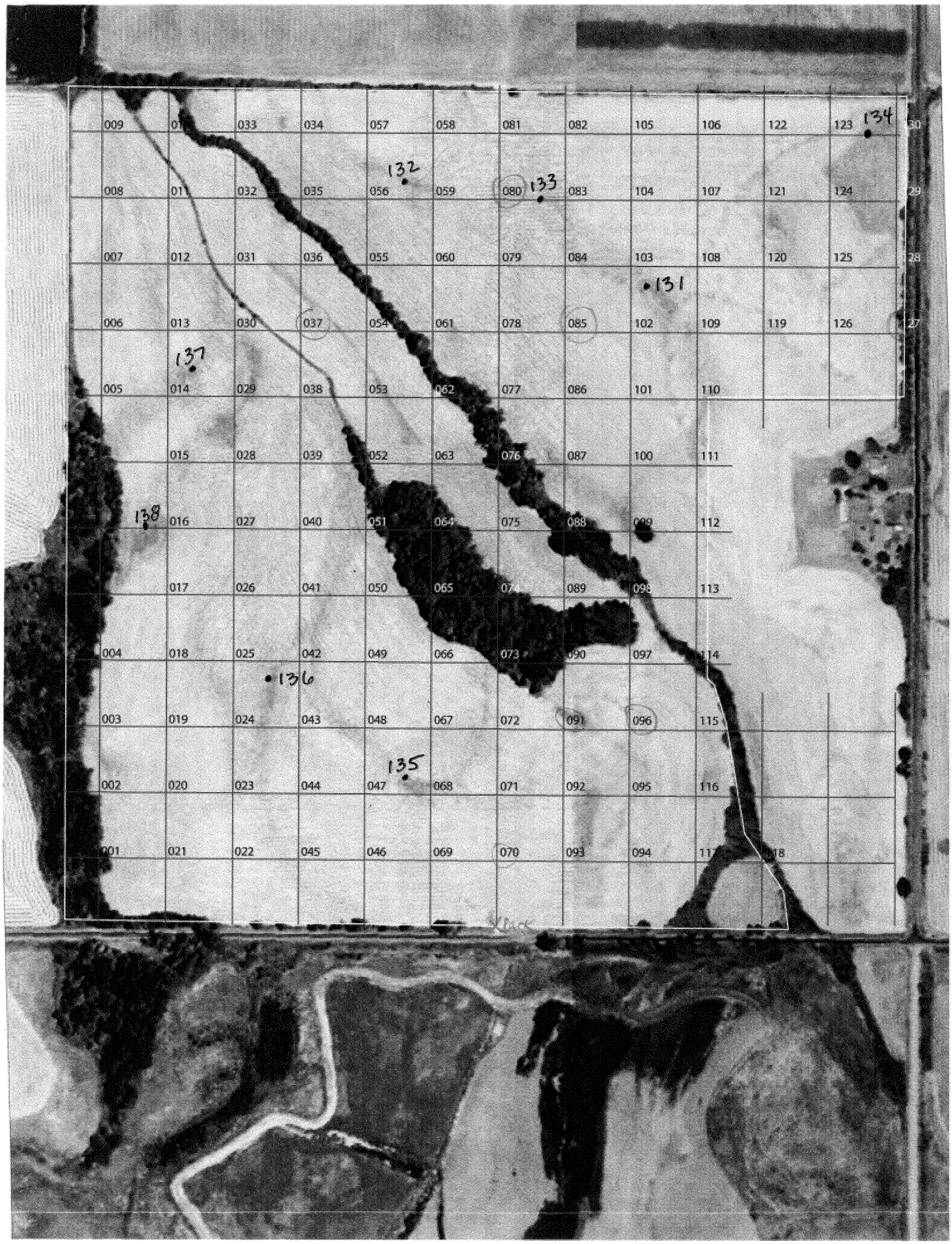
LATIN	INDICATOR STATUS	I/N	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
Achillea millefolium	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Agrostis exarata*	FACW	N	0	0	0	1	0	0	0	20	50	1	10	40	5	20	1	25	5	1	10	0	0	1	5
Alopecurus geniculatus	OBL	N	0	0	0	0	0	0	0	0	0	0	1	0	0	5	0	0	0	0	0	0	0	0	0
Beckmania syzigachne	OBL	N	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Boidsduvalia densiflora*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Briza minor	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bromus carinatus	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Camassia quamash*	FACW	N	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Cardamine oligosperma	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cerastium arvense	FACU	N	0	0	0	0	0	0	0	1	5	0	0	1	0	1	0	0	0	0	0	0	0	0	0
Cirsium arvense	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Danthonia californica*	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Deschampsia cespitosa*	FACW	N	85	35	80	90	85	90	75	25	0	40	20	45	30	50	70	70	75	100	75	80	70	90	95
Deschampsia elongata*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Downingia elegans*	OBL	N	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	OBL	N	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	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Epilobium ciliatum*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Festuca roemeri	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Festuca trachyphylla	FACU	I	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	10	0	30	0	0
Fraxinus latifoila	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Galium aparine	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geranium dissectum	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyceria occidentalis	OBL	N	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
Gnaphalium palustre	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grindelia integrifolia*	FACW	N	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holcus lanatus	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hordeum brachyantherum	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypochaeris radicata	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Juncus bufonius*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Juncus effusus	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Juncus tenuis*	FACW	N	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0
Lactuca serriola	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lolium multiflorum	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lomatium nudicaule*	FACU	N	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	NOL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotus unifoliatus	UPL	N	0	40	5	0	5	5	0	20	0	10	0	5	0	0	5	10	10	1	5	25	1	5	1
Lupinus bicolor	UPL	N	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lupinus polyphyllus*	FAC	N	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
Myosotis discolor	FACW	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemophila parviflora	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parentucelia viscosa	FAC	I	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*	FACW	N	0	0	0	0	0	0	0	30	1	0	25	0	10	10	0	0	0	0	0	0	0	0	0
Plagiobothrys scouleri*	FACW	N	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
Plantago major	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poa annua	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poa trivialis	FACW	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potentilla gracilis*	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prunella vulgaris*	FACU	N	0	15	0	0	0	1	0	5	0	5	0	5	0	1	0	0	0	0	0	0	0	0	1
Ranunculus occidentalis*	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranunculus orthorhynchus*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranunculus ucinatus	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rorippa curvisiliqua	OBL	N	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubus ameniacus	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Rumex salicifolius	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Sonchus asper	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stelleria media	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sisyrinchium augustifolium	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vicia sativa	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vulpia bromoides	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Vulpia myuros	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bare			15	10	5	10	10	5	25	0	40	40	20	5	55	20	25	0	0	0	0	0	0	10	0

LATIN	INDICATOR STATUS	I/N	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69
Achillea millefolium	FACU	N	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	1	-	-	1	30	0	5
Agrostis exarata*	FACW	N	0	1	1	10	15	0	10	0	10	20	20	25	30	50	20	0	10	-	-	0	0	1	0
Alopecurus geniculatus	OBL	N	0	0	0	0	0	0	0	0	1	0	10	5	5	0	0	0	0	-	-	0	0	0	0
Beckmania syzigachne	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	-	-	0	0	0	0
Boidsduvalia densiflora*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Briza minor	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	-	-	0	0	0	0
Bromus carinatus	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Camassia quamash*	FACW	N	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	-	-	0	0	0	0
Cardamine oligosperma	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Cerastium arvense	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Cirsium arvense	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	-	-	0	0	0	0
Danthonia californica*	FACU	N	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Deschampsia cespitosa*	FACW	N	70	100	80	70	50	0	5	40	30	60	65	55	40	20	60	55	50	-	-	80	20	80	85
Deschampsia elongata*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Downingia elegans*	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Eleocharis palustris	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Epilobium brachycarpum	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	-	-	0	0	0	0
Epilobium ciliatum*	FACW	N	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	5	0	-	-	0	0	0	0
Festuca roemeri	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Festuca trachyphylla	FACU	I	25	0	20	5	10	15	0	0	0	0	0	0	0	15	0	0	10	-	-	20	30	10	0
Fraxinus latifolia	FACW	N	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	-	-	0	0	0	0
Galium aparine	FACU	N	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Geranium dissectum	UPL	I	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Glyceria occidentalis	OBL	N	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Gnaphalium palustre	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Grindelia integrifolia*	FACW	N	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Holcus lanatus	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Hordeum brachyantherum	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Hypochaeris radicata	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Juncus bufonius*	FACW	N	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Juncus effusus	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Juncus tenuis*	FACW	N	0	0	0	0	0	0	10	0	1	1	0	0	0	0	0	0	0	-	-	0	0	0	0
Lactuca serriola	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Lolium multiflorum	FACU	I	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	-	-	0	0	0	0
Lomatium nudicaule*	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Lotus micranthus	NOL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Lotus unifoliatus	UPL	N	0	0	0	0	15	0	35	0	1	0	0	0	0	1	0	5	10	-	-	1	0	15	0
Lupinus bicolor	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Lupinus polyphyllus*	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Myosotis discolor	FACW	I	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	5	-	-	0	0	0	0
Nemophila parviflora	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Parentucelia viscosa	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	-	-	0	0	0	0
Plagiobothrys figuratus*	FACW	N	0	0	0	0	0	0	0	40	0	10	0	0	1	0	0	1	10	-	-	0	0	0	0
Plagiobothrys scouleri*	FACW	N	0	0	0	0	0	0	0	5	0	1	0	0	0	0	0	1	0	-	-	0	0	0	0
Plantago major	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Poa annua	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Poa trivialis	FACW	I	0	0	0	0	0	1	20	0	5	0	0	0	0	1	0	0	0	-	-	0	0	0	0
Potentilla gracilis*	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Prunella vulgaris*	FACU	N	0	0	1	0	0	10	10	0	1	0	0	0	0	1	0	0	5	-	-	0	1	0	5
Ranunculus occidentalis*	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Ranunculus orthorhynchus*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Ranunculus ucinatus	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Rorippa curvisiliqua	OBL	N	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Rubus ameniacus	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Rumex salicifolius	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Sonchus asper	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	-	-	0	0	0	0
Stelleria media	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Sisyrinchium augustifolium	FACW	N	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Vicia sativa	UPL	I	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Vulpia bromoides	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Vulpia myuros	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0	0
Bare			5	0	0	10	10	50	0	15	50	10	5	15	20	10	20	35	0	-	-	0	20	0	10

LATIN	INDICATOR STATUS	I/N	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92
Achillea millefolium	FACU	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Agrostis exarata*	FACW	N	0	1	0	10	-	5	-	10	15	10	10	15	5	10	10	5	5	10	-	-	75	0	5
Alopecurus geniculatus	OBL	N	0	0	0	0	-	5	-	1	20	0	1	5	1	1	1	5	1	10	-	-	5	0	0
Beckmania syzigachne	OBL	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Boidsduvalia densiflora*	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Briza minor	FAC	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Bromus carinatus	UPL	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	1
Camassia quamash*	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Cardamine oligosperma	FAC	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Cerastium arvense	FACU	N	0	0	0	0	-	1	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Cirsium arvense	FACU	I	0	0	0	0	-	0	-	1	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Danthonia californica*	FACU	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Deschampsia cespitosa*	FACW	N	95	90	25	30	-	50	-	5	25	70	30	50	20	75	70	30	15	30	-	-	10	100	40
Deschampsia elongata*	FACW	N	0	0	0	0	-	0	-	0	0	0	5	0	0	0	0	0	0	0	-	-	0	0	0
Downingia elegans*	OBL	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Eleocharis palustris	OBL	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Epilobium brachycarpum	UPL	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Epilobium ciliatum*	FACW	N	0	0	0	0	-	1	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Festuca roemeri	FACU	N	0	0	0	0	-	0	-	1	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Festuca trachyphylla	FACU	I	0	0	35	30	-	0	-	30	0	0	0	0	50	1	0	0	0	0	-	-	0	0	0
Fraxinus latifoila	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Galium aparine	FACU	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Geranium dissectum	UPL	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	1	0	0
Glyceria occidentalis	OBL	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Gnaphalium palustre	FAC	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Grindelia integrifolia*	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	5	5	0	-	-	0	0	0
Holcus lanatus	FAC	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Hordeum brachyantherum	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	5	20	0	-	-	0	0	0
Hypochaeris radicata	FACU	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Juncus bufonius*	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	5	0	0	0	-	-	0	0	0
Juncus effusus	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Juncus tenuis*	FACW	N	0	0	0	0	-	1	-	0	0	0	0	0	0	0	0	0	0	0	-	-	5	0	20
Lactuca serriola	FACU	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Lolium multiflorum	FACU	I	0	0	0	0	-	0	-	0	0	0	0	1	0	0	0	0	0	0	-	-	0	0	0
Lomatium nudicaule*	FACU	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Lotus micranthus	NOL	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	10	0	0	-	-	0	0	0
Lotus unifoliatus	UPL	N	0	0	15	30	-	20	-	60	10	1	1	1	0	5	5	10	5	5	-	-	1	1	10
Lupinus bicolor	UPL	N	0	0	0	0	-	0	-	0	0	0	1	0	0	0	0	0	0	0	-	-	0	0	0
Lupinus polyphyllus*	FAC	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Myosotis discolor	FACW	I	0	0	0	0	-	0	-	10	0	0	0	0	1	0	0	0	0	0	-	-	0	0	0
Nemophila parviflora	FAC	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Parentucelia viscosa	FAC	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Plagiobothrys figuratus*	FACW	N	0	0	0	0	-	10	-	0	1	0	0	1	0	0	1	0	0	0	-	-	0	0	0
Plagiobothrys scouleri*	FACW	N	0	0	0	0	-	1	-	0	0	0	0	20	0	1	1	0	0	0	-	-	0	0	0
Plantago major	FACU	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Poa annua	FAC	I	0	0	0	0	-	0	-	0	0	0	0	0	1	0	0	1	0	0	-	-	0	0	0
Poa trivialis	FACW	I	0	0	0	0	-	1	-	0	0	0	0	0	0	1	0	0	0	15	-	-	0	0	0
Potentilla gracilis*	FAC	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Prunella vulgaris*	FACU	N	0	0	0	10	-	1	-	0	1	1	5	0	1	1	0	0	0	15	-	-	0	1	1
Ranunculus occidentalis*	FAC	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Ranunculus orthorhynchus*	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Ranunculus ucinatus	FAC	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Rorippa curvisiliqua	OBL	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Rubus ameniacus	FACU	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Rumex salicifolius	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Sonchus asper	FAC	I	0	0	0	0	-	0	-	0	0	0	0	0	0	1	0	0	0	1	-	-	0	0	0
Stelleria media	FACU	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Sisyrinchium augustifolium	FACW	N	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Vicia sativa	UPL	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	1	0	0	-	-	0	0	0
Vulpia bromoides	FAC	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	-	-	0	0	0
Vulpia myuros	FAC	I	0	0	0	0	-	0	-	0	0	0	0	0	0	0	0	1	0	0	-	-	0	0	0
Bare			5	10	25	0	-	10	-	0	29	20	54	10	25	10	10	30	50	20	-	-	5	0	25

LATIN	INDICATOR STATUS	I/N	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115
Achillea millefolium	FACU	N	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	40	5	0
Agrostis exarata*	FACW	N	0	10	20	1	5	10	0	5	0	0	10	15	15	20	5	5	10	5	10	10	5	10	5
Alopecurus geniculatus	OBL	N	0	0	0	0	0	0	25	1	2	1	5	0	5	0	0	0	15	10	10	5	1	1	0
Beckmania syzigachne	OBL	N	0	0	0	0	0	5	0	0	0	0	15	0	0	0	0	0	0	5	0	0	0	0	0
Boidsduvalia densiflora*	FACW	N	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	1	0	0	0	0	0	0	0
Briza minor	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bromus carinatus	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Camassia quamash*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cardamine oligosperma	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cerastium arvense	FACU	N	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
Cirsium arvense	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Danthonia californica*	FACU	N	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Deschampsia cespitosa*	FACW	N	95	80	80	80	80	0	50	70	0	0	1	60	0	40	55	60	45	55	60	0	0	0	80
Deschampsia elongata*	FACW	N	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Downingia elegans*	OBL	N	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0
Eleocharis palustris	OBL	N	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	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Epilobium ciliatum*	FACW	N	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Festuca roemeri	FACU	N	0	0	0	0	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	0
Festuca trachyphylla	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	20	10	0	0	0	0	0	0	0	0
Fraxinus latifoila	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Galium aparine	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geranium dissectum	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
Glyceria occidentalis	OBL	N	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	15	15	1	0	0	0	0
Gnaphalium palustre	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grindelia integrifolia*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Holcus lanatus	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Hordeum brachyantherum	FACW	N	0	0	0	0	0	0	1	0	5	8	0	0	0	0	0	5	0	0	0	0	1	0	0
Hypochaeris radicata	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Juncus bufonius*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Juncus effusus	FACW	N	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Juncus tenuis*	FACW	N	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0
Lactuca serriola	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Lolium multiflorum	FACU	I	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	5	20	0	0
Lomatium nudicaule*	FACU	N	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotus micranthus	NOL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotus unifoliatus	UPL	N	0	15	10	5	20	0	0	3	0	2	0	0	0	0	0	5	0	0	0	5	25	10	0
Lupinus bicolor	UPL	N	0	0	0	0	0	0	1	0	0	5	0	1	0	0	0	0	1	0	0	0	10	0	0
Lupinus polyphyllus*	FAC	N	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Myosotis discolor	FACW	I	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Nemophila parviflora	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parentucelia viscosa	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Plagiobothrys figuratus*	FACW	N	0	0	0	0	0	0	0	0	1	1	5	0	0	0	0	1	1	0	0	0	0	0	0
Plagiobothrys scouleri*	FACW	N	0	0	0	0	0	0	1	0	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Plantago major	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poa annua	FAC	I	0	0	0	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Poa trivialis	FACW	I	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
Potentilla gracilis*	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prunella vulgaris*	FACU	N	0	0	0	0	0	0	5	0	0	1	0	10	0	0	1	5	0	0	0	0	5	20	0
Ranunculus occidentalis*	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Ranunculus orthorhynchus*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranunculus ucinatus	FAC	N	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rorippa curvisiliqua	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Rubus ameniacus	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rumex salicifolius	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sonchus asper	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stelleria media	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sisyrinchium augustifolium	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vicia sativa	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vulpia bromoides	FAC	I	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
Vulpia myuros	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bare			5	10	0	10	0	0	0	22	85	73	5	15	5	0	0	0	0	0	0	5	0	5	15

LATIN	INDICATOR STATUS	I/N	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130
Achillea millefolium	FACU	N	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0
Agrostis exarata*	FACW	N	10	35	35	0	0	0	25	25	15	15	0	0	0	20	20
Alopecurus geniculatus	OBL	N	0	0	0	30	0	0	0	1	1	0	0	0	0	15	5
Beckmania syzigachne	OBL	N	0	0	1	0	0	20	0	0	0	0	0	0	20	0	0
Boidsduvalia densiflora*	FACW	N	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Briza minor	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bromus carinatus	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Camassia quamash*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cardamine oligosperma	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cerastium arvense	FACU	N	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
Cirsium arvense	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Danthonia californica*	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Deschampsia cespitosa*	FACW	N	80	35	35	1	15	0	35	75	70	10	15	60	10	10	30
Deschampsia elongata*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Downingia elegans*	OBL	N	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0
Eleocharis palustris	OBL	N	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
Epilobium brachycarpum	UPL	N	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Epilobium ciliatum*	FACW	N	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Festuca roemeri	FACU	N	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0
Festuca trachyphylla	FACU	I	0	0	0	0	0	0	0	0	0	30	1	0	0	0	0
Fraxinus latifoila	FACW	N	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
Galium aparine	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Geranium dissectum	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyceria occidentalis	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnaphalium palustre	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Grindelia integrifolia*	FACW	N	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Holcus lanatus	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hordeum brachyantherum	FACW	N	0	0	0	35	0	0	0	0	0	0	40	0	0	0	0
Hypochaeris radicata	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Juncus bufonius*	FACW	N	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0
Juncus effusus	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Juncus tenuis*	FACW	N	10	0	5	0	0	0	0	0	0	0	0	0	0	0	0
Lactuca serriola	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lolium multiflorum	FACU	I	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Lomatium nudicaule*	FACU	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotus micranthus	NOL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotus unifoliatus	UPL	N	1	5	5	10	25	0	1	1	5	1	5	0	0	0	0
Lupinus bicolor	UPL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lupinus polyphyllus*	FAC	N	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0
Myosotis discolor	FACW	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemophila parviflora	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parentucelia viscosa	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagiobothrys figuratus*	FACW	N	0	0	0	30	5	0	0	0	0	0	5	0	0	0	0
Plagiobothrys scouleri*	FACW	N	0	0	0	5	70	0	0	1	0	0	0	0	0	0	0
Plantago major	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poa annua	FAC	I	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Poa trivialis	FACW	I	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0
Potentilla gracilis*	FAC	N	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Prunella vulgaris*	FACU	N	0	0	0	0	2	0	0	0	0	20	1	0	0	0	3
Ranunculus occidentalis*	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranunculus orthorhynchus*	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Ranunculus ucinatus	FAC	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rorippa curvisiliqua	OBL	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubus ameniacus	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rumex salicifolius	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sonchus asper	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stelleria media	FACU	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sisyrinchium augustifolium	FACW	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vicia sativa	UPL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vulpia bromoides	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vulpia myuros	FAC	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bare			0	5	17	0	0	35	40	0	0	0	0	40	70	55	42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132
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131
006 013 030 037 054 061 078 085 102 109 119 126
137
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015 028 039 052 063 076 087 100 111
138
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135
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