

**2010 VEGETATION MONITORING,
FOSTER CREEK WETLAND MITIGATION BANK,
CLACKAMAS COUNTY, OREGON**



Prepared for

Wetland Systems Restoration and Conservation, LLC

by

John A. Christy

June 2010

EXECUTIVE SUMMARY

Plots established in 2009 by Wetland Systems Restoration and Conservation (WSRC) were resampled by John Christy in May 2010.

Compared to preconstruction condition in 2005, there are fewer species on site, more native species, more wetland indicator species, and fewer facultative species. Compared to the 2009 monitoring, native species are increasing frequency and percent cover, particularly the native perennial grasses. Stands have a much higher cover of *Deschampsia elongata* and *Deschampsia caespitosa*, and appear to be heading toward desired future performance standards. Weeds have all diminished except in PFO plots, but some remain widespread but at low cover values, indicating the need for ongoing vigilance.

INTRODUCTION

Wetland Systems Restoration and Conservation (WSRC), LLC, manages the Foster Creek Wetland Mitigation Bank on 73.75 acres in northwestern Clackamas County, Oregon. The subject property is located in Township 02 South, Range 03 East, and includes tax lot 1400 in the southeast corner of Section 26, and tax lots 600 and 690 in the northeast corner of Section 35 (Wetland Systems Restoration and Conservation 2004). Pre-construction baseline wetland and vegetation assessments were completed by John Christy in 2005. Following approved mitigation plans implemented between 2005 and 2008, the site was tilled, portions were recontoured for wetland enhancement and restoration, and most herbaceous vegetation was repeatedly treated with herbicide to eliminate exotic species. In 2008 and 2009, the site was planted extensively in different phases with seeds, plugs, and container-grown trees and shrubs representing about 80 species of native plants. In 2010, the establishment of native species is being closely monitored and intensive spot-spraying of exotic species is ongoing.

In May 2010, John Christy to conducted a second year of post-construction vegetation monitoring at the site. Periodic monitoring of vegetation will enable managers and regulators to determine if federal and state performance standards for compensatory mitigation are being met at the site, and will assist in development of adaptive management strategies.

METHODS

The 2010 monitoring was conducted on 27, 28, and 31 May. Measurable precipitation occurred every day between May 17 and May 31, and a total of 3.91 inches had fully charged the site with water (National Weather Service 2010). Earlier dry, warm weather had stimulated some vegetation, but two species of grass had not fully emerged or begun flowering, precluding accurate identification.

Vegetation monitoring followed protocols described in Marshall (2007). Transects and plots established by WSRC in 2009 consisted of a baseline transect running east to west across the property, with 13 transects running north and south from the baseline. Five transects (T1 N to T5 N) on the north side of the baseline, and eight transects (T1S to T8 S) on the south side, were numbered sequentially from west to east. For vegetation sampling, WSRC installed 98 plots of 1m² along the transects. In addition, four upland plots were established on the south side of the baseline, one (B) located between transects T2S and T3S, two (A, C) located between transects T3S and T4S, and one (D) located between transects T5S and T6S. WSRC recorded GPS

coordinates for all 102 plots, marked the beginning and endpoints of the baseline and transects with wooden stakes, and marked plot locations with rebar topped with red plastic caps, and pin flags.

Per Marshall (2007), percent cover of all plant species and bare ground/ litter was recorded in the 102 plots. Plots were sampled along the right side of the transects, extending from the initial points to the endpoints of transects. The points flagged by WSRC were used to mark the lower left corner of each of the plots, facing toward the endpoint of the transects. Likewise, the points flagged by WSRC for the four upland plots were used to mark the lower left corner of each plot, and the plots were oriented parallel to adjacent transects. The initial point of each transect was photographed, facing north or south toward the endpoint of each transect. Each upland plot was also photographed, facing toward the endpoints of adjacent transects, and a closeup of the plot was taken facing to the right of an imaginary transect located along the plot and parallel to adjacent transects.

Along portions of five transects (T2N, T3N, T4N, T7S, T8S) that were planted with trees and shrubs to establish palustrine forested (PFO) wetland, 19 circular plots with a radius of 30 ft were sampled to count stems of trees and shrubs. The points flagged by WSRC for the 1m² plots were used as centerpoints for the circular plots. Therefore, each of the 19 circular plots had a 1m² herbaceous plot nested within it, using the same flagged point to mark the lower left corner of the plot.

Data recorded from the 102 1m² herbaceous plots and the 19 circular PFO plots are provided in Appendix A (transects) and Appendix B (upland plots). Species recorded in 2009 but not seen in 2010 were left on the data sheets to illustrate changes in species composition. Photographs are provided in Appendix C (transects) and Appendix D (upland plots).

Species frequency and average, minimum, and maximum percent cover were summarized for transects and upland plots for both 2009 and 2010 (Appendix E).

EXISTING VEGETATION

The total number of 83 species recorded in the plots in 2010 remained the same as in 2009. However, 21 species seen in 2010 were not present in 2009, and 21 others had disappeared from the plots (Table 1). Native species increased from 53 percent in 2009 to 57 percent in 2010, while exotic species declined from 45 percent to 42 percent, respectively (Figure 1). Wetland indicator species increased from 41 percent in 2009 to 46 percent in 2010 (Figure 1). Facultative species increased from 15 percent in 2009 to 19 percent in 2010, while upland (including NI and unknown species) declined slightly from 36 percent in 2009 to 35 percent in 2010.

Of the 21 new species, 5 were exotic. Of the remaining 16 native species, 8 (*Aquilegia formosa*, *Beckmannia syzigachne*, *Frangula purshiana*, *Physocarpus capitatus*, *Plectritis congesta*, *Rosa pisocarpa*, *Spiraea douglasii*, *Symphoricarpos albus*) were seeded or planted by WSRC in 2009, the woody species being in the PFO plots. Ten species (*Carex densa*, *Carex feta*, *Carex scoparia*, *Danthonia californica*, *Dodecatheon pulchellum*, *Eryngium petiolatum*, *Lomatium nudicaule*, *Perideridia oregana*, *Prunella lanceolata*, *Saxifraga oregana*) planted by WSRC in the fall of 2009 were not seen, although some currently may be too small to recognize, or simply did not occur in the plots and were overlooked. Native *Fraxinus latifolia* and *Populus balsamifera* ssp. *trichocarpa* are self-seeding into portions of the site and are abundant in the PFO portions of transects 2, 3, and 4 North (*Fraxinus*), and T8S (*Populus*).

In 2010, species composition along transects remained diverse, and most had 40-55 different taxa. Transect 8 continues to have the fewest species, and ongoing development may eventually reduce numbers to those of Transect 8. Future sampling will involve fewer species but estimation of cover will continue to be challenging as grasses and sedges mature.

Comparison of transect photos in 2009 and 2020 shows a marked increase in density and height of perennial grasses, and summaries of species frequency and percent cover in transects and upland plots for 2009 and 2010 confirm the change (Appendix E). Because different portions of each transect represent a variety of vegetation types along a moisture gradient, the data summaries reflect overall changes for the entire transect, but do not necessarily imply changes in community composition. Summaries were not calculated for the PFO plots.

Summary data in Appendix E indicate a general trend away from dominance by exotics, annual species, and moss in 2009, to native perennial grasses in 2010. Maturing vegetation in both transects and upland plots appears to be displacing early-seral species (native and exotic) and the moss layer. *Deschampsia elongata* is the most abundant grass, and *Deschampsia caespitosa* is the second most abundant. Many transects have consistently high frequency of *Deschampsia*, often 100 percent, but some are still heterogeneous and have lower frequencies, although some of this is probably due to contrasting vegetation types along transects, such as prairie and seasonally flooded depressions that have few or no species in common. As in 2009, the wettest plots are identifiable by high values for bare ground. However, incidence of *Eleocharis acicularis*, *Eleocharis ovata*, *Gnaphalium palustre*, *Gratiola ebracteata*, *Rorippa curvisiliqua*, *Plagiobothrys figuratus*, *Plagiobothrys scouleri*, and the exotic *Lythrum portula* declined in most of these plots. Plots with intermediate moisture are widespread and currently support increasingly high values of *Deschampsia* and *Hordeum brachyantherum*. The four upland plots continue to be dominated by exotic species, but native perennials are better represented in 2010 and are gaining ground. Almost all plots contained fewer species in 2010, a combination of weed control and increased competition from maturing perennials. Species that have disappeared are represented as zero percent cover in Appendices A and B, and are particularly easy to see in Appendix E where sorting by frequency and cover relegates them to the bottom of the list. Not all of these are exotic species, and the native species among them presumably were victims of competition.

Weeds

Ongoing intensive weed management has vastly reduced the amount of weeds on the site. Spot spraying in the vicinity and within plots was much less noticeable in 2020 than in 2009. *Agrostis stolonifera*, *Anthoxanthum odoratum*, *Holcus lanatus*, *Hypochaeris radicata*, *Leucanthemum vulgare*, *Lotus corniculatus*, *Ranunculus repens*, *Rumex acetosella*, *Trifolium hybridum*, *Trifolium repens*, and *Trifolium pratense* are all much less prominent in most plots. *Epilobium* has almost disappeared completely. In contrast, many of these species are still abundant in the PFO plots, particularly on Transects 7S and 8S. Summary data indicate that a number of these species, particularly *Hypochaeris radicata*, *Leucanthemum vulgare*, and *Lotus corniculatus*, have intermediate frequencies (ca. 40-50 percent) but low cover values, indicating that they are still widespread and perhaps were suppressed by the cold, wet weather of 2010, or are seedlings that will increase cover in 2011. *Crataegus monogyna* was noted in one or two transects on the north side, and along the south margin of the property, where it is seeding in from adjacent vegetation.

RECOMMENDATIONS

As I wrote last year, I can't recommend much more than what WSRC already knows and is doing on site. Ongoing vigilance and treatment of invasives is needed, and that is already happening. A number of the woody species in the PFO plots are struggling, particularly *Alnus rubra* and *Physocarpus capitatus*. I recommend installing landscape cloth around the bases of all woody species planted so future spraying and weed-whacking around these will not be needed. This will also make it easier to see them in the tall grass, as we probably missed some during sampling the circular plots. Vegetation in the herbaceous plots appears to be moving toward targets for performance standards, and WSRC is continuing to infill bare spots with native species. The current dominance of *Deschampsia elongata* will give way to *Deschampsia caespitosa* as the latter continues to become more established. WSRC will need to decide whether they want all the ash seedlings establishing naturally, particularly on the north transects, and the cottonwood that is establishing in transects 7S and 8S. Once established, these will grow rapidly and will overwhelm whatever else is planted among them, but this may well suit the goals of the PFO stands.

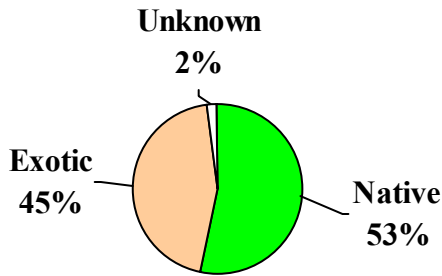
REFERENCES

Marshall, J.L. 2007. Draft guidance for vegetation planning and monitoring in western Oregon wetlands and riparian areas: using reference sites to help plan and evaluate vegetation performance of mitigation sites. U.S. Fish and Wildlife Service and Oregon Department of State Lands. 10 April 2007. 40 pp.

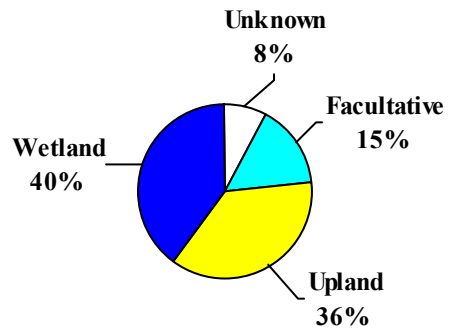
National Weather Service. 2010. Climate data for May 2010.
<http://www.nws.noaa.gov/climate/index.php?wfo=pqr>

Wetland Systems Restoration and Conservation, LLC. 2004. Prospectus for Foster Creek Wetland Mitigation Bank, Clackamas County, Oregon. September 30, 2004. 20 pp.

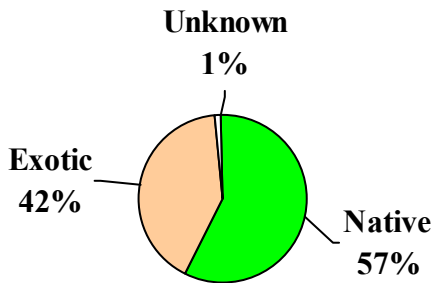
Figure 1. Composition and NWI status of Vegetation at Foster Creek Mitigation Bank, 2009 and 2010. Upland = NI, UPL, FACU, FACU+, FACU-; Wetland = OBL, FACW, FACW+, FACW-; Facultative = FAC, FAC+, FAC-; Unknown = UNK.



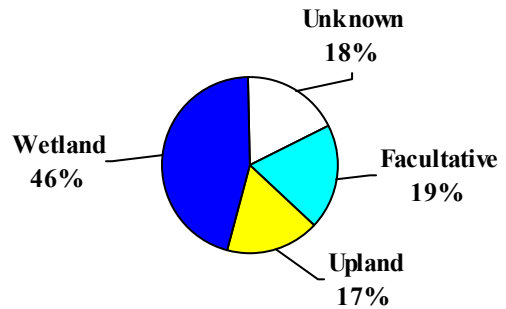
Native species vs. Exotic species, 2009



NWI Indicator status, by species, 2009



Native species vs. Exotic species, 2010



NWI Indicator status, by species, 2010

Table 1. Cumulative list of plant species occurring in all sampled plots (herbaceous, PFO, upland), Foster Creek WMB, June 2009 and May 2010. For species found only in 2010, see Appendices A, B, and E.

Taxon (2009-2010)	Wetland Indicator Status	Native/ Exotic	2009	2010
<i>Agrostis exarata</i>	FACW	Native	Y	Y
<i>Agrostis stolonifera</i> var. <i>palustris</i>	FACW*	Exotic	Y	Y
<i>Allium vineale</i>	NI	Exotic	Y	Y
<i>Alnus rubra</i>	FAC	Native	Y	Y
<i>Alopecurus geniculatus</i>	OBL	Exotic	Y	Y
<i>Anthoxanthum odoratum</i>	FACU	Exotic	Y	Y
<i>Aquilegia formosa</i>	FAC	Native	N	Y
<i>Beckmannia syzigachne</i>	OBL	Native	N	Y
<i>Bromus racemosus</i> (= <i>B. commutatus</i>)	NI	Exotic	N	Y
<i>Camassia quamash</i>	FACW*	Native	Y	Y
<i>Cardamine occidentalis</i>	FACW+	Native	Y	Y
<i>Carex obnupta</i>	OBL	Native	N	Y
<i>Carex pachystachya</i>	FAC	Native	N	Y
<i>Carex</i> sp. (seedlings)	UNK	Native	Y	N
<i>Cerastium arvense</i>	FACU	Native	Y	N
<i>Cerastium fontanum</i> ssp. <i>vulgare</i> (= <i>C. vulgatum</i>)	FACU	Exotic	Y	Y
<i>Cerastium glomeratum</i> (= <i>C. viscosum</i>)	UPL	Exotic	Y	Y
<i>Cirsium vulgare</i>	FACU	Exotic	Y	N
<i>Cornus sericea</i> (= <i>C. stolonifera</i>)	FACW	Native	Y	Y
<i>Crataegus douglasii</i>	FAC	Native	Y	Y
<i>Crataegus monogyna</i>	FACU+*	Exotic	Y	Y
<i>Daucus carota</i>	NI	Exotic	N	Y
<i>Deschampsia caespitosa</i>	FACW	Native	Y	Y
<i>Deschampsia elongata</i>	FACW-	Native	Y	Y
<i>Dichelostemma congestum</i>	NI	Native	Y	Y
<i>Downingia elegans</i>	OBL	Native	Y	N
<i>Eleocharis acicularis</i>	OBL	Native	Y	N
<i>Eleocharis ovata</i>	OBL	Native	Y	Y
<i>Epilobium brachycarpum</i> (= <i>E. paniculatum</i>)	NI	Native	Y	N
<i>Epilobium ciliatum</i> ssp. <i>watsonii</i>	FACW-	Native	Y	Y
<i>Epilobium densiflorum</i> (= <i>Boisduvalia densiflora</i>)	FACW-	Native	Y	Y
<i>Frangula</i> (<i>Rhamnus</i>) <i>purshiana</i>	FAC-	Native	N	Y
<i>Fraxinus latifolia</i>	FACW	Native	Y	Y
<i>Geranium dissectum</i>	NI	Exotic	Y	Y
<i>Geranium molle</i>	NI	Exotic	Y	N
<i>Geum macrophyllum</i>	FACW-*	Native	Y	Y
<i>Glyceria leptostachya</i>	OBL	Native	N	Y
<i>Glyceria occidentalis</i>	OBL	Native	Y	Y
<i>Gnaphalium palustre</i>	FAC+	Native	Y	N
<i>Gratiola ebracteata</i>	OBL	Native	Y	N
<i>Gratiola neglecta</i>	OBL	Native	N	Y

<i>Grindelia integrifolia</i>	FACW	Native	Y	Y
<i>Holcus lanatus</i>	FAC	Exotic	Y	Y
<i>Hordeum brachyantherum</i>	FACW*	Native	Y	Y
<i>Hypochaeris radicata</i>	FACU*	Exotic	Y	Y
<i>Juncus bufonius</i>	FACW	Native	Y	Y
<i>Juncus tenuis</i>	FACW-	Native	N	Y
<i>Lactuca serriola</i>	FACU	Exotic	Y	N
<i>Leucanthemum vulgare</i>	NI	Exotic	Y	Y
<i>Lolium perenne</i> ssp. <i>multiflorum</i>	FACU	Exotic	N	Y
<i>Lonicera involucrata</i>	FAC+*	Native	Y	Y
<i>Lotus corniculatus</i>	FAC	Exotic	Y	Y
<i>Lupinus</i> sp. (seedlings)	UNK	Native	Y	Y
<i>Lythrum portula</i>	NI	Exotic	Y	Y
<i>Malus fusca</i>	FACW	Native	Y	Y
<i>Matricaria recutita</i>	NI	Exotic	Y	N
<i>Medicago lupulina</i>	FAC	Exotic	Y	Y
<i>Montia fontana</i>	OBL	Native	Y	Y
<i>Montia linearis</i>	NI	Native	Y	Y
Moss	NI	Native	Y	Y
<i>Myosotis discolor</i>	FACW	Exotic	Y	Y
<i>Myosotis laxa</i>	OBL	Native	Y	Y
<i>Navarretia</i> sp. (seedlings)	UNK	Native	Y	N
<i>Panicum</i> sp. (seedlings)	UNK	Native	Y	N
<i>Parentucellia viscosa</i>	FAC-	Exotic	Y	Y
<i>Phalaris arundinacea</i>	FACW	Exotic	N	Y
<i>Physocarpus capitatus</i>	FACW-	Native	N	Y
<i>Plagiobothrys figuratus</i>	FACW	Native	Y	Y
<i>Plagiobothrys scouleri</i>	FACW	Native	Y	Y
<i>Plectritis congesta</i>	FACU	Native	N	Y
<i>Poa annua</i>	FAC	Exotic	Y	Y
<i>Poa pratensis</i>	FAC	Exotic	N	Y
<i>Poa</i> sp. (seedlings)	UNK	UNK	Y	N
<i>Poa trivialis</i>	FACW	Exotic	Y	Y
<i>Polygonum hydropiper</i>	OBL	Exotic	Y	Y
<i>Populus balsamifera</i> ssp. <i>trichocarpa</i> (seedlings; = <i>P. trichocarpa</i>)	FAC	Native	N	Y
<i>Potentilla</i> sp. (seedlings)	UNK	Native	Y	Y
<i>Ranunculus</i> cf. <i>macounii</i>	OBL	Native	Y	N
<i>Ranunculus orthorhynchus</i>	FACW-	Native	N	Y
<i>Ranunculus repens</i>	FACW	Exotic	Y	Y
<i>Rorippa curvisiliqua</i>	OBL	Native	Y	Y
<i>Rosa pisocarpa</i>	FAC	Native	N	Y
<i>Rubus armeniacus</i> (seedlings; = <i>R. discolor</i>)	FACU	Exotic	Y	N
<i>Rumex acetosella</i>	FACU+	Exotic	Y	Y
<i>Rumex aquaticus</i> var. <i>fenestratus</i>	FACW+	Native	Y	N
<i>Rumex crispus</i>	FAC+	Exotic	Y	N
<i>Senecio vulgaris</i>	FACU	Exotic	Y	Y
<i>Sidalcea</i> (seedlings)	UNK	Native	Y	Y
<i>Sisyrinchium idahoense</i>	FACW	Native	N	Y
<i>Solidago canadensis</i>	FACU	Native	Y	N

<i>Sonchus asper</i>	FAC-	Exotic	Y	N
<i>Spiraea douglasii</i>	FACW	Native	N	Y
<i>Stellaria media</i>	FACU	Exotic	Y	N
<i>Symphoricarpos albus</i>	FACU	Native	N	Y
<i>Trifolium hybridum</i>	FAC	Exotic	Y	Y
<i>Trifolium pratense</i>	FACU	Exotic	Y	Y
<i>Trifolium repens</i>	FAC	Exotic	Y	Y
<i>Triteleia hyacinthina</i>	FACU	Native	Y	Y
Unknown grass (leaves only)	UNK	UNK	Y	Y
<i>Veronica arvensis</i>	FACU*	Exotic	Y	Y
<i>Veronica peregrina</i>	OBL	Exotic	Y	Y
<i>Vicia hirsuta</i>	NI	Exotic	Y	Y
<i>Vicia sativa</i>	UPL	Exotic	Y	Y
<i>Vulpia bromoides</i>	NI	Exotic	Y	Y

APPENDIX A. 2010 VEGETATION COVER DATA (Wetland Plots)

Site: Foster Creek WMB

Author: John Christy

Date: 31 May 2010

Transect: T1N

Plot type: herbaceous	Percent Cover							
Plot number	1	2	3	4	5	6	7	8
Agrostis exarata	0	35	3	3	15	3	1	0
Agrostis stolonifera	4	0	15	0	0	0	0	0
Alopecurus geniculatus	0	0	0	0	0	2	0	0
Anthoxanthum odoratum	5	0	2	2	2	0	3	10
Aquilegia formosa	0.01	0	0	0	0	0	0	0
Bare/ Litter	15	20	40	25	5	4	0	3
Beckmannia syzigachne	0	0	0	1	0	0	0	0
Bromus racemosus	0	0	0	0	0	0	1	0
Camassia quamash	3	0	0	0	4	0	0	35
Cardamine occidentalis	0	0	0	0	0	0	0	0
Carex unilateralis	0	2	0	0	0	0	0	2
Cerastium fontanum ssp. vulgare	0	0	0	0	0	0	5	0
Cerastium glomeratum	5	0	0	0	0	1	0	0
Cirsium vulgare	0	0	0	0	0	0	0	0
Deschampsia caespitosa	20	0	20	10	45	0	1	0
Deschampsia elongata	20	10	15	50	15	35	10	0
Epilobium ciliatum ssp. watsonii	0	0	0	0	0	1	1	1
Epilobium densiflorum	0	0	0	0	0	2	5	4
Fraxinus latifolia (seedlings)	0	0	0	0	0	0	0	0
Gnaphalium palustre	0	0	0	0	0	0	0	0
Grindelia integrifolia	0	0	0	0	0	0	0	0
Holcus lanatus	0	0	2	0	0	0	1	0
Hordeum brachyantherum	20	0	2	4	2	0	0	0
Hypochaeris radicata	0	0	0	0	0	0	4	1
Juncus bufonius	0	0	0	0	0	3	10	0
Leucanthemum vulgare	0	0	0	0	0	0	0	0
Lotus corniculatus	0.01	0	0.01	0	0	0	0	1
Medicago lupulina	0	0	0	0	0	35	5	0
Montia fontana	0	0	0	0	0	0	0	0
Montia linearis	0	1	0	0	0	2	30	10
Moss	0	0	2	3	2	1	25	10
Myosotis discolor	10	0	0	0	2	0	20	25
Navarretia sp.	0	0	0	0	0	0	0	0
Panicum sp. (seedlings)	0	0	0	0	0	0	0	0
Parentucellia viscosa	0	0	0	0	0	4	3	1
Plagiobothrys figuratus	0	0	0	0	0	1	0	0
Plagiobothrys scouleri	0	0	0	0	0	0	0	0
Poa trivialis	0	40	0	0	0	10	0	3
Potentilla sp.	0	0	0	0	0	0	0	1
Rorippa curvisiliqua	0	0	0	0	0	0	0	0
Senecio vulgaris	0	0	0	0	0	0	0	0
Trifolium hybridum	0	0	0	0	0	0	0	0
Triteleia hyacinthina	0	0	0	2	1	0	0	0

Veronica arvensis	0	0	0	0	1	0	1	0
Veronica peregrina	0	0	0	0	0	3	2	1

Site: Foster Creek WMB

Author: John Christy

Date: 27 May 2010

Transect: T1S

Plot type: herbaceous	Percent Cover							
Plot number	1	2	3	4	5	6	7	8
Agrostis exarata	3	0	0	0	2	0	0	0
Alopecurus geniculatus	3	0	0	0	0	0	0	0
Anthoxanthum odoratum	4	0	0	0	0	0	2	0
Bare/ Litter	25	25	0	25	5	3	20	1
Camassia quamash	0	0	0.01	0	0	0	0	0
Cardamine occidentalis	0	0	0	0	0	0	0	0
Cerastium fontanum ssp. vulgare	0	0	3	0	2	4	0	2
Cerastium glomeratum	0	0	0	0	0	0	2	1
Crataegus monogyna (seedlings)	0	0	0	0	0	0	0	2
Deschampsia caespitosa	4	5	5	4	15	2	0	0
Deschampsia elongata	20	3	10	2	15	1	10	2
Epilobium ciliatum ssp. watsonii	0	0	0	0	0	0	0	1
Epilobium densiflorum	0	0	0	0	0	0	0	0
Epilobium paniculatum	0	0	0	0	0	0	0	0
Fraxinus latifolia (seedlings)	0	0	0	0	0	0	1	1
Geranium molle	0	0	0	0	0	5	0	0
Geum macrophyllum	0	0	0	0	0	0	0	1
Glyceria occidentalis	0	2	0	0	0	0	0	0
Gnaphalium palustre	0	0	0	0	0	0	0	0
Holcus lanatus	0	0	0	0	0	0	0	4
Hordeum brachyantherum	2	0	0	0	5	0	3	3
Hypochaeris radicata	0.01	0	1	0	0.01	1	0	0
Juncus bufonius	0	0	0	0	0	0	2	0
Leucanthemum vulgare	0	0	0	0	0	0	0	0
Lotus corniculatus	0	0.01	0	1	0.01	0	2	0
Lupinus sp. (seedlings)	0	0	0	0	0	0	0	2
Medicago lupulina	0	0	0	0	0	0	2	0
Montia fontana	0	0	0	0	0	0	0	4
Montia linearis	5	0	5	10	25	35	35	10
Moss	25	15	50	25	20	5	15	50
Myosotis discolor	0	0	30	0	2	40	4	20
Panicum sp. (seedlings)	0	0	0	0	0	0	0	0
Parentucellia viscosa	0	0	0	0	1	0	0.01	1
Plagiobothrys figuratus	0	0	0	0	0	0	0	0
Poa trivialis	11	50	0	40	0	0	4	3
Ranunculus repens	0	0	0	0	0	0	0	1
Rorippa curvisiliqua	0	0	0	0	0	0	0	0
Rumex acetosella	0	0	0	0	0	1	0	0
Senecio vulgaris	0	0	0	0	1	0	0	0
Trifolium hybridum	0	0	0	0	0	0	0	0
Unknown grass (leaves only)	0	2	0	0	0	0	0	0
Veronica arvensis	0	0	1	0	2	4	0	0
Veronica peregrina	0	0	0	0	0	0	0	0
Vulpia bromoides	0	0	20	0	0	0	0	0

Site: Foster Creek WMB

Author: John Christy

Date: 31 May 2010

Transect: T2N

Plot type: herbaceous	Percent Cover							
Plot number	1	2	3	4	5	6	7	8
Veronica peregrina	0	1	0	0	0	1	0	1
Triteleia hyacinthina	0	0	0	3	0	0	0	0
Trifolium repens	0	0	0	0	0	3	5	0
Trifolium hybridum	0	0	0	0	0	10	0	0
Solidago canadensis	0	0	0	0	0	0	0	0
Sisyrinchium idahoense	0	1	0	0	0	0	0	0
Rumex acetosella	0	0	0	0	0	0	0	0
Rorippa curvisiliqua	0	0	0	0	0	0	0	0.01
Ranunculus repens	0	0	0	0	0	4	0	0
Ranunculus orthorhynchus	1	1	0	0	0	0	0	0
Polygonum hydropiper	0	0	0	0	0	0	0	0
Poa trivialis	2	3	0	0	2	0	0	0
Poa sp. (seedlings)	0	0	0	0	0	0	0	0
Poa annua	0	0	0	0	0	0	1	0
Plectritis congesta	5	4	2	1	0	0	0	0
Plagiobothrys scouleri	2	50	40	0	0	0	1	0
Plagiobothrys figuratus	0.01	2	2	0	0	0	1	0
Parentucellia viscosa	5	1	2	0	1	0	10	1
Panicum sp. (seedlings)	0	0	0	0	0	0	0	0
Myosotis laxa	0	0	0	0	0	0	0	2
Myosotis discolor	5	0	0	0	20	4	0	2
Moss	0	0	0	10	2	0	4	0
Montia linearis	0	0	0	15	0	2	3	1
Medicago lupulina	0	0	0	0	1	5	0	0
Matricaria recutita	0	0	0	0	0	0	0	0
Lythrum portula	0	0	0	0	0	0	0	0
Lotus corniculatus	0	0.01	0	3	0	30	20	4
Leucanthemum vulgare	0	0	0	0	0	0	0	0
Juncus bufonius	3	3	2	0	2	2	2	45
Hypochaeris radicata	0	0.01	0	1	0	5	4	3
Hordeum brachyantherum	0	5	5	3	5	2	0	0
Holcus lanatus	1	1	0	0	0	0	0	0
Grindelia integrifolia	0	0	0	0	0	1	0	0
Gratiola ebracteata	0	0	0	0	0	0	0	0
Gnaphalium palustre	0	0	0	0	0	0	0	0
Glyceria occidentalis	0	0	0	0	0	0	0	5
Geranium dissectum	0	0	0	0	0	1	0	0
Fraxinus latifolia (seedlings)	0	0	0	0	0	0	1	1
Fraxinus latifolia (planted)	0	0	0	0	0	0	0	4
Epilobium paniculatum	0	0	0	0	0	2	10	1
Epilobium densiflorum	0	0	0	0	0	0	35	0
Epilobium ciliatum ssp. watsonii	0	0	0	0	0	2	0	1
Deschampsia elongata	50	6	50	55	55	10	4	0
Deschampsia caespitosa	15	4	3	5	2	0	0	0
Daucus carota	0.01	0	0	0	0	0	0	0

Cerastium glomeratum	0	0	0	0	0	0	1	0
Cerastium fontanum ssp. vulgare	0	2	0	1	0	4	0	0
Carex unilateralis	0	0	0	0	0	4	0	0
Carex sp. (seedlings)	0	0	0	0	0	0	0	0
Carex obnupta	0	0	0	0	0	0	0	1
Cardamine occidentalis	0	0	0	0	0	0	0	0
Camassia quamash	0	0	0	2	1	0	0	0
Bromus racemosus	0	0	0	0	0	2	0	0
Bare/ Litter	10	15	3	4	15	10	2	30
Anthoxanthum odoratum	0	3	0	0	1	0	0	0
Agrostis stolonifera	1	0	0	0	0	2	0	0
Agrostis exarata	1	1	0	0	1	0	0	1

Site: Foster Creek WMB
Author: John Christy
Date: 31 May 2010
Transect: T2N

Plot type: PFO	Stem Counts	
	7	8
Plot number		
Alnus rubra, dead	0	1
Alnus rubra, live	0	1
Cornus sericea, dead	2	2
Cornus sericea, live	8	2
Fraxinus latifolia	9	23
Lonicera involucrata	0	0
Physocarpus capitatus	5	2
Spiraea douglasii	1	0

Comments: Stems live unless noted otherwise. Half of plot 7 underwater. Ca. 50 seedlings of Fraxinus latifolia in Plot 8.

Site: Foster Creek WMB

Author: John Christy

Date: 27 May 2010

Transect: T2S

Plot type: herbaceous	Percent Cover							
Plot number	1	2	3	4	5	6	7	8
<i>Agrostis exarata</i>	1	0	0	4	0	0	20	0
<i>Alopecurus geniculatus</i>	0	0	0	15	0	0	0	0
<i>Anthoxanthum odoratum</i>	0	0	0	3	0	0	0	0
Bare/ Litter	5	25	0	3	10	5	35	1
<i>Camassia quamash</i>	0	4	5	0	1	1	0	0
<i>Cardamine occidentalis</i>	0	0	0	0	0	0	0	0
<i>Cerastium fontanum</i> ssp. <i>vulgare</i>	5	0	0	0	0	1	0	3
<i>Cerastium glomeratum</i>	0	1	1	0	0	0	0	0
<i>Deschampsia caespitosa</i>	20	5	5	30	10	3	30	2
<i>Deschampsia elongata</i>	45	30	20	10	10	25	5	20
<i>Epilobium ciliatum</i> ssp. <i>watsonii</i>	0	0	0	0	0	0	0	0
<i>Epilobium densiflorum</i>	0	0	0	0	0	0	0	0
<i>Epilobium paniculatum</i>	0	0	0	0	0	0	0	0
<i>Fraxinus latifolia</i> (seedling)	0	0	0	0	0	0	0	0
<i>Glyceria occidentalis</i>	0	0	0	0	1	0	2	0
<i>Holcus lanatus</i>	0	0	0	0	0	0	0	2
<i>Hordeum brachyantherum</i>	0	3	20	0	3	4	3	5
<i>Hypochaeris radicata</i>	0	0	0	0	0	0	0	0
<i>Juncus bufonius</i>	0	2	0	0	0	0	0	0
<i>Lactuca serriola</i>	0	0	0	0	0	0	0	0
<i>Leucanthemum vulgare</i>	0	0	0	0	0	0	0	0
<i>Lotus corniculatus</i>	2	2	0	0	0	1	0	1
<i>Medicago lupulina</i>	0	0	0	0	0	0	0	0
<i>Montia fontana</i>	0	0	2	0	2	0	0	0
<i>Montia linearis</i>	0	20	2	25	30	0	4	15
Moss	10	5	25	10	35	15	0	55
<i>Myosotis discolor</i>	5	3	5	0	0	20	0	3
<i>Parentucellia viscosa</i>	2	1	0	0	0	2	0	0
<i>Phalaris arundinacea</i>	0	0	0	3	0	0	0	0
<i>Plagiobothrys figuratus</i>	0	0	0	0	0	0	0	0
<i>Plagiobothrys scouleri</i>	0	0	0	0	0	0	0	0
<i>Poa trivialis</i>	0	2	0	0	0	3	0	5
<i>Ranunculus repens</i>	0	0	1	0	0	0	0	0
<i>Rorippa curvisiliqua</i>	0	0	0	0	0	0	0	0
<i>Rumex acetosella</i>	0	0	0	0	0	0	0	0
<i>Rumex aquaticus</i> var. <i>fenestratus</i>	0	0	0	0	0	0	0	0
<i>Senecio vulgaris</i>	0	0	0	0	0	3	0	0
<i>Trifolium hybridum</i>	0	1	0	0	0	0	0	0
<i>Veronica arvensis</i>	3	0	1	0	0	3	0	0
<i>Vulpia bromoides</i>	0	2	15	0	0	0	0	0

Site: Foster Creek WMB

Author: John Christy

Date: 28/31 May 2010

Transect: T3N

Plot type: herbaceous	Percent Cover							
Plot number	1	2	3	4	5	6	7	8
Agrostis exarata	1	0	2	0	0	0	0	3
Agrostis stolonifera	0	0	0	0	0	0	0	0
Allium vineale	1	0	0	0	0	0	0	0
Alopecurus geniculata	0	0	0	2	0	0	0	0
Anthoxanthum odoratum	0	1	1	0	0	3	0	0
Bare/ Litter	10	10	15	25	2	8	10	0
Camassia quamash	0	0	0	0	1	0	0	0
Cardamine occidentalis	0	0	0	0	0	0	0	0
Carex obnupta	0	0	0	2	0	0	0	0
Cerastium fontanum ssp. vulgare	2	0	0	0	0	0	0	0
Cerastium glomeratum	0	0	0	0	1	0	1	1
Crataegus monogyna (seedling)	0	0	0	0	0	10	0	0
Daucus carota	0	0	0.01	0	0	0	0	0
Deschampsia caespitosa	2	4	40	5	30	0	0	25
Deschampsia elongata	65	60	30	25	20	5	3	5
Epilobium ciliatum ssp. watsonii	0	0	0	0	0	0	2	2
Epilobium densiflorum	0	0	0	0	0	0	5	0
Fraxinus latifolia (seedling)	0	0	0	0	0	0	2	3
Geranium dissectum	0	0	0	0	0	20	0	0
Geranium molle	0	0	0	0	0	0	0	0
Geum macrophyllum	0	0	0	0	0	2	0	0
Gnaphalium palustre	0	0	0	0	0	0	0	0
Gratiola neglecta	0	0	0	3	0	0	0	0
Holcus lanatus	1	2	2	3	1	0	3	0
Hordeum brachyantherum	3	5	3	3	35	25	0	20
Hypochaeris radicata	0	0	0	0	0	4	3	15
Juncus bufonius	0	0	0	3	0	0	5	0
Juncus tenuis	0	0	0	0	0	0	2	0
Leucanthemum vulgare	0	0	0	0	0	0	1	0
Lolium perenne ssp. multiflorum	0	0	0	0	0	0	1	0
Lotus corniculatus	0	1	0.01	0	0	3	0	1
Lythrum portula	0	0	0	4	0	0	0	0
Medicago lupulina	0	0	0	0	0	0	2	3
Montia fontana	0	0	0	0	0	0	0	0
Montia linearis	0	0	0	4	10	20	5	0
Moss	0	0	1	5	0	0	0	2
Myosotis discolor	4	5	5	0	2	0	5	3
Myosotis laxa	0	1	0	0	0	0	0	0
Panicum sp. (seedling)	0	0	0	0	0	0	0	0
Parentucellia viscosa	10	0	1	0	1	0	1	2
Plagiobothrys figuratus	0	2	4	5	0	0	0	0
Plagiobothrys scouleri	0	10	0	5	0	3	0	0
Plectritis congesta	0	0	0	0	0	0	0	1
Poa trivialis	0	0	0	5	0	0	3	0
Potentilla sp. (seedling)	0	0	0	0	0	0	0	0

Ranunculus repens	0	0	0.01	0	0	0	0	0
Rorippa curvisiliqua	0	0	0	0	0	0	0	0
Rumex acetosella	0	0	0	0	0	0	0	0
Sonchus asper	0	0	0	0	0	0	0	0
Trifolium repens	0	0	0	0	0	0	50	2
Triteleia hyacinthina	2	0	0	0	0	0	0	0
Veronica peregrina	0	0	0	1	0	0	0	0
Vicia hirsuta	0	0	0	0	1	3	0	20
Vicia sativa	0	0	0	0	1	0	0	0

Site: Foster Creek WMB

Author: John Christy

Date: 28 May 2010

Transect: T3N

Plot type: PFO	Stem Counts		
	6	7	8
Cornus sericea, live	2	2	10
Cornus sericea, dead	0	2	3
Fraxinus latifolia, mature	1	0	0
Fraxinus latifolia, planted	3	29	17
Lonicera involucrata	0	0	2
Malus fusca	0	1	0
Physocarpus capitatus	0	0	5
Rosa pisocarpa	0	0	1

Comments: Stems live unless noted otherwise. Mature ash in Plot 6 is ca. 20" DBH. Ca. 50 Fraxinus volunteers in Plot 8.

Site: Foster Creek WMB
Author: John Christy
Date: 27 May 2010
Transect: T3S

Plot type: herbaceous	Percent Cover							
Plot number	1	2	3	4	5	6	7	8
Agrostis exarata	1	0	0	0	0	10	10	0
Agrostis stolonifera	0	5	20	5	10	0	0	0
Alopecurus geniculatus	0	0	0	5	0	0	0	0
Anthoxanthum odoratum	2	10	5	0	0	0	0	0
Bare/ Litter	30	55	5	35	2	0	25	5
Camassia quamash	1	0	0	0	0	10	2	2
Cerastium fontanum ssp. vulgare	0	0	10	0	0	3	0	0
Crataegus douglasii (seedling)	0	0	0	0	0	0	0	1
Crataegus monogyna (seedling)	0	0	0	0	0	0.01	0	0
Deschampsia caespitosa	3	5	15	3	15	10	0	0
Deschampsia elongata	35	15	5	0	0	20	45	15
Epilobium ciliatum ssp. watsonii	0	0	0	0	0	0.01	0	0
Epilobium densiflorum	0	0	0	0	0	0	0	0
Fraxinus latifolia (seedling)	0	0	0	0	0	1	0	0.01
Geum macrophyllum (seedling)	0	0	0	0	0	0	0	0.01
Glyceria occidentalis	0	0	0	0	4	0	0	3
Gnaphalium palustre	0	0	0	0	0	0	0	0
Holcus lanatus	0	0	4	2	5	0	0	0
Hordeum brachyantherum	0	0	25	0	5	0	0	5
Hypochaeris radicata	0	0	0	0	0	4	0	0
Juncus bufonius	1	5	0	1	0	0	0	1
Leucanthemum vulgare	0	0	0	0	0	0	0	0
Lotus corniculatus	2	1	1	0	1	0	0.01	0
Medicago lupulina	0	0	0	0	0	0	0	0
Montia fontana	0	1	0	1	3	0	0	3
Montia linearis	0	3	3	4	5	10	0	30
Moss	5	2	5	45	50	20	30	30
Myosotis discolor	20	0	2	0	0	5	0	25
Parentucellia viscosa	0	0	0	0	0	2	0.01	0
Plagiobothrys figuratus	0	0.01	0	0	0	0	0	0
Plagiobothrys scouleri	0	0	0	0	0	0	2	0
Poa annua	0	0	0	0	0	0	0	0
Poa trivialis	0	0	5	0	0	0	0	0
Ranunculus repens	0	0	0	0	0.01	0	0	1
Rorippa curvisiliqua	0	0	0	0	0	0	0	0
Rumex acetosella	0	0	0	0	0	0	0.01	0
Triteleia hyacinthina	0	0	0	0	0	2	0	0
Veronica arvensis	1	0	0	0	0	0	0	0
Veronica peregrina	0	0	0	0	0	0	0	0
Vicia hirsuta	0	0	0	0	0	0	0	0
Vicia sativa	0	0	0	0	0	0	0	0
Vulpia bromoides	0	0	0	0	0	0	0	0

Site: Foster Creek WMB

Author: John Christy

Date: 28 May 2010

Transect: T4N

Plot type: herbaceous	Percent Cover					
Plot number	1	2	3	4	5	6
Agrostis exarata	0	3	0	0	0	0
Agrostis stolonifera	0	0	0	0	0	5
Anthoxanthum odoratum	0	0	20	0	0	15
Bare/ Litter	30	10	20	10	0	20
Bromus racemosus	0	0	0	0	2	0
Camassia quamash	0	0	0	0	0	0
Carex pachystachya	0	0	0	0	1	0
Cerastium fontanum ssp. vulgare	0	0	0	0	0	0
Cerastium glomeratum	1	2	1	0	0	0
Deschampsia caespitosa	20	20	10	0	0	4
Deschampsia elongata	35	30	20	35	0	0
Epilobium densiflorum	0	0	0	0	0	0
Epilobium paniculatum	0	0	3	0	0	0
Geranium dissectum	0	0	0	10	0	0
Gnaphalium palustre	0	0	0	0	0	0
Holcus lanatus	1	2	0	0	0	0
Hordeum brachyantherum	2	3	0	5	40	5
Hypochaeris radicata	0	0	0	3	0	5
Juncus bufonius	0	0	0	0	0	0
Leucanthemum vulgare	0	0	0	0	4	2
Lotus corniculatus	0	0	0	0	55	3
Medicago lupulina	0	0	0	2	0	1
Montia fontana	0	0	0	0	0	0
Montia linearis	5	3	0	2	0	0
Moss	4	25	2	0	0	15
Myosotis discolor	1	0	0	10	0	0
Myosotis laxa	0	0	0	0	0	0
Navarretia sp.	0	0	0	0	0	0
Parentucellia viscosa	0	0	1	3	0	0
Plagiobothrys figuratus	1	3	0	0	0	0
Plagiobothrys scouleri	1	0	1	0	0	0
Plectritis congesta	0	0	15	2	0	0
Poa annua	0	3	0	0	0	0
Poa pratensis	0	0	0	0	3	0
Poa trivialis	0	0	10	5	0	0
Ranunculus repens	0	1	0	0	0	0
Rorippa curvisiliqua	0	0	0	0	0	0
Rumex aquaticus var. fenestratus	0	0	0	0	0	0
Sisyrinchium idahoense	0	1	0	0	0	0
Trifolium hybridum	0	0	0	0	0	0
Trifolium pratense	0	0	0	0	0	0
Trifolium repens	0	0	0	0	0	3
Veronica arvensis	0	0	0	3	0	0
Veronica peregrina	0	0	0	0	0	0
Vicia hirsuta	0	0	0	3	0	0

Vicia sativa	0	0	0	0	0	0
Vulpia bromoides	0	0	0	0	0	25

Site: Foster Creek WMB
Author: John Christy
Date: 28 May 2010
Transect: T4N

Plot type: PFO	Stem Counts	
	5	6
Plot number		
Alnus rubra, dead	0	3
Alnus rubra, live	0	0
Cornus sericea, dead	4	1
Cornus sericea, live	11	11
Frangula purshiana, dead	0	1
Frangula purshiana, live	0	1
Fraxinus latifolia, dead	0	1
Fraxinus latifolia, live	15	16
Lonicera involucrata, dead	0	1
Lonicera involucrata, live	0	2
Physocarpus capitatus	8	2
Rosa pisocarpa	1	7

Comments: Stems live unless noted otherwise. Excludes berm at N end of transect.

Site: Foster Creek WMB

Author: John Christy

Date: 27 May 2010

Transect: T4S

Plot type: herbaceous	Percent Cover							
Plot number	1	2	3	4	5	6	7	8
Agrostis exarata	0	0	0	0	0	0	0	0
Alopecurus geniculatus	0	0	0	35	0	0	0	0
Anthoxanthum odoratum	20	0	5	0	0	3	0	0
Bare/ Litter	0	40	50	45	10	15	40	5
Camassia quamash	0	0	0	0	1	3	0	3
Cardamine occidentalis	0	0	5	0	0	0	0	0
Carex sp. (seedling)	0	1	0	0	0	0	0	0
Cerastium arvense	0	0	0	0	0	0	0	0
Cerastium fontanum ssp. vulgare	0	0	1	0	0	0	0	0
Cerastium glomeratum	1	0	0	0	0	0	3	1
Deschampsia caespitosa	20	0	0	0	5	3	3	10
Deschampsia elongata	30	0	5	2	10	5	0	20
Downingia elegans	0	0	0	0	0	0	0	0
Eleocharis ovata	0	1	0	0	0	0	0	0
Epilobium ciliatum ssp. watsonii	0	0	0	0	0	0	0	0
Epilobium densiflorum	0	0	0	0	0	0	0	0
Epilobium paniculatum	0	0	0	0	0	0	0	0
Fraxinus latifolia (seedling)	0	0	0	0	0	0	0	1
Geranium dissectum	0	0	0	0	0	1	0	0
Glyceria occidentalis	0	2	0	15	0	0	0	0
Holcus lanatus	0	0	0	0	0	0	3	0
Hordeum brachyantherum	0	0	5	0	5	0	20	15
Hypochaeris radicata	0	0	0	0	0	1	0	0
Juncus bufonius	0	0	1	0	0	0	0	0
Lactuca serriola	0	0	0	0	0	0	0	0
Leucanthemum vulgare	0	0	1	0	0	0	0	0
Lotus corniculatus	1	0	0.01	0	3	0	2	0
Lythrum portula	0	55	0	5	0	0	0	0
Medicago lupulina	0	0	0	0	0	0	0	0
Montia linearis	25	0	4	0	15	25	10	25
Moss	4	0	3	0	30	25	3	40
Myosotis discolor	0	0	20	0	20	35	5	15
Parentucellia viscosa	0	0	0	0	0	2	2	0
Plagiobothrys figuratus	0	1	0	2	0	0	0	0
Plagiobothrys scouleri	0	0	0	2	0	0	0	0
Poa trivialis	0	0	0	0	0	0	0	0
Ranunculus cf. macounii	0	0	0	0	0	0	0	0
Ranunculus repens	0	0	0	0	1	0	0	0
Rorippa curvisiliqua	0	2	0	0	0	0	0	0
Rubus armeniacus (seedling)	0	0	0	0	0	0	0	0
Rumex acetosella	0	0	0	0	0	0	0	0
Senecio vulgaris	0	0	0	0	1	5	15	0
Stellaria media	0	0	0	0	0	0	0	0
Trifolium repens	0	0	0	0	0	0	0	0
Triteleia hyacinthina	0	0	4	0	0	4	0	0

Veronica arvensis	0.01	0	0	0	0	0	0	1
Vicia hirsuta	0	0	0	0	0	1	2	0
Vicia sativa	0	0	0	0	0	0	0	0

Site: Foster Creek WMB

Author: John Christy

Date: 28 May 2010

Transect: T5N

Plot type: herbaceous	Percent Cover			
	1	2	3	4
Plot number				
Agrostis stolonifera	0	0	0	0
Anthoxanthum odoratum	5	0	0	5
Bare/ Litter	0	15	3	35
Camassia quamash	1	0	0	0
Cerastium glomeratum	0	2	4	0
Deschampsia caespitosa	5	20	25	3
Deschampsia elongata	5	35	40	15
Epilobium ciliatum ssp. watsonii	0	0	0	0
Epilobium densiflorum	0	0	0	0
Epilobium paniculatum	0	1	0	0
Fraxinus latifolia (seedling)	0	0	0	0
Geum macrophyllum	0	0	0	0
Holcus lanatus	0	0	0	0
Hordeum brachyantherum	75	25	20	0
Hypochaeris radicata	0	0	0	0
Juncus bufonius	0	0	0	0
Lotus corniculatus	0	0.01	0	3
Medicago lupulina	0	0	4	35
Montia linearis	4	0	2	0
Moss	2	0	0	0
Myosotis discolor	5	2	1	0
Parentucellia viscosa	0	1	4	5
Plagiobothrys figuratus	0	0	0	0
Plagiobothrys scouleri	0	0	0	0
Plectritis congesta	0	0	0	2
Poa trivialis	0	0	0	0
Ranunculus occidentalis	0	2	0	0
Rumex acetosella	0	0	0	0
Sonchus asper	0	0	0	0
Trifolium repens	0	0	0	0
Triteleia hyacinthina	0	0	0	3
Veronica peregrina	0	0	0	0
Vicia hirsuta	0	0	3	0
Vicia sativa	0	0	0	0

Site: Foster Creek WMB

Author: John Christy

Date: 27/28 May 2010

Transect: T5S

Plot type: herbaceous	Percent Cover							
Plot number	1	2	3	4	5	6	7	8
Agrostis exarata	0	10	0	0	10	0	0	4
Agrostis stolonifera	3	0	0	15	35	0	0	0
Anthoxanthum odoratum	0	0	0	0	0	0	0	0
Bare/ Litter	2	3	30	2	15	25	5	5
Camassia quamash	5	10	35	3	10	3	0	5
Cerastium glomeratum	0	0	0	0	0	0	1	4
Deschampsia caespitosa	40	30	15	25	3	2	0	3
Deschampsia elongata	35	40	15	10	5	20	2	2
Epilobium ciliatum ssp. watsonii	0	0	0.01	1	0	0	0	0
Epilobium densiflorum	0	0	0	0	0	0	0	0
Epilobium paniculatum	0	0	0	0	0	0	0	0
Fraxinus latifolia (seedling)	0	0	0	0	0	0	0	0.01
Gnaphalium palustre	0	0	0	0	0	0	0	0
Grindelia integrifolia	0	0	0	0	0	0	0	0
Holcus lanatus	2	0	0	1	0	45	2	35
Hordeum brachyantherum	0	0	0	15	0	0	40	0
Hypochaeris radicata	0	0	0	0	0	1	0	0
Juncus bufonius	0	1	0	0	3	0	0	0
Leucanthemum vulgare	0	0	0	0	0	0	0.01	0
Lotus corniculatus	0	0	0	1	2	0.01	4	1
Lupinus sp. (seedling)	0	0	0	0	0	0	2	0
Matricaria recutita	0	0	0	0	0	0	0	0
Medicago lupulina	0	0	0	0	0	0	0	0
Montia linearis	1	4	3	10	5	4	4	0
Moss	0	0	5	10	5	1	15	15
Myosotis discolor	15	0	0	10	10	0	15	35
Parentucellia viscosa	1	1	0	1	1	0	1	0
Plagiobothrys figuratus	0	0	0	0	0	0	0	0
Plagiobothrys scouleri	0	0	0	0	0	0	0	0
Potentilla sp. (seedling)	0	0	0	0	0	0	0	0
Ranunculus repens	0	0	0	0	0	0	0	0
Rorippa curvisiliqua	0	0	0	0	0	0	0	0
Rumex acetosella	0	0	0	1	0	0	0	0
Senecio vulgaris	0	1	0	1	0	0	2	0
Sidalcea (seedling)	0	0	0	0	0	0	0	0.01
Trifolium repens	0	0	0	0	0	0	0	0
Triteleia hyacinthina	2	0	0	0	0	2	2	1
Veronica arvensis	0	0	0	0	0	0	0	0
Vicia hirsuta	0	0	0	0	0	0	5	0

Site: Foster Creek WMB

Author: John Christy

Date: 28 May 2010

Transect: T6S

Plot type: herbaceous	Percent Cover							
Plot number	1	2	3	4	5	6	7	8
Agrostis exarata	0	0	3	3	4	4	3	5
Agrostis stolonifera	0	0	0	0	0	0	0	0
Alopecurus geniculatus	10	0	0	0	0	0	0	0
Anthoxanthum odoratum	0	1	0	3	0	1	4	0
Bare/ Litter	20	40	5	20	0	15	40	10
Camassia quamash	0	2	5	0	15	5	0	5
Cardamine occidentalis	0	0	1	0	0	0	0	0
Cerastium fontanum ssp. vulgare	0	0	2	0	0	0	0	0
Cerastium glomeratum	0	0	0	0	0	0	0	2
Deschampsia caespitosa	0	0	10	3	5	0	5	15
Deschampsia elongata	0	1	35	5	40	8	0	35
Eleocharis ovata	0	0	0	0	0	0	0	0
Epilobium ciliatum ssp. watsonii	0	0.01	0	1	0	1	0.01	0
Epilobium densiflorum	0	0	0	2	0	0	0	0
Epilobium paniculatum	0	0	1	0	0	0	0	0
Geranium dissectum	0	0	0	3	0	0	0	0
Glyceria occidentalis	5	0	0	0	0	0	0	0
Gnaphalium palustre	0	0	0	0	0	0	0	0
Grindelia integrifolia	0	0	0	0	0	0	0	0
Holcus lanatus	0	0	4	0	0	1	0	3
Hordeum brachyantherum	0	0	0	2	0	5	40	10
Hypochaeris radicata	0	0	0	2	1	2	0	0
Juncus bufonius	2	0	0	0	0	0	0	0
Leucanthemum vulgare	0	0	0	0	0	0	0	0
Lotus corniculatus	0	1	0	0	1	0.01	1	0
Lythrum portula	50	0	0	0	0	0.01	0	0
Matricaria recutita	0	0	0	0	0	0	0	0
Medicago lupulina	0	0	0	2	0	0	0	0
Montia linearis	1	5	3	20	2	0	0	0
Moss	0	1	2	3	3	3	5	10
Myosotis discolor	0	2	0	15	25	35	4	4
Parentucellia viscosa	0	4	2	5	10	15	2	0
Phalaris arundinacea	2	0	0	0	0	0	0	0
Plagiobothrys figuratus	6	0	0	0	0	0	0	0
Plagiobothrys scouleri	1	0	0	0	0	0	0	0
Poa trivialis	5	50	35	0	0	3	0	0
Polygonum hydropiper	2	0	0	0	0	0	0	0
Ranunculus occidentalis	0	0	1	0	0	0	0	0
Ranunculus repens	0	0	1	0	0	0	0	1
Rorippa curvisiliqua	0	0	0	0	0	0	0	0
Rumex acetosella	0	0	0	2	0	1	0	0
Rumex crispus	0	0	0	0	0	0	0	0
Senecio vulgaris	0	0	0	0	0	2	4	0
Trifolium pratense	0	0	0	0	0	0	0	0

<i>Triteleia hyacinthina</i>	0	0	2	10	0	0	0	0
Unknown grass (leaves only)	0	0	0	0	0	0	0	0
<i>Veronica peregrina</i>	0	0	0	0	0	0	0	0

Site: Foster Creek WMB

Author: John Christy

Date: 28 May 2010

Transect: T7S

Plot type: herbaceous	Percent Cover							
Plot number	1	2	3	4	5	6	7	8
Agrostis exarata	0	0	0	0	0	0	0	0
Agrostis stolonifera	0	5	0	0	0	0	0	0
Anthoxanthum odoratum	0	0	0	0	3	30	30	25
Bare/ Litter	0	0	15	5	25	25	0	0
Cerastium glomeratum	0	2	0	0	0	0	0	0
Deschampsia caespitosa	5	30	8	15	4	0	0	35
Deschampsia elongata	0	40	70	70	30	0	0	0
Eleocharis acicularis	0	0	0	0	0	0	0	0
Epilobium ciliatum ssp. watsonii	0	0	0	0	1	0	0	0
Epilobium densiflorum	0	0	0	0	0	0	0	0
Epilobium paniculatum	0	0	0	0	0	0	0	0
Gratiola ebracteata	0	0	0	0	0	0	0	0
Holcus lanatus	0	2	0	0	2	1	15	3
Hordeum brachyantherum	45	0	0	3	10	0	2	0
Hypochaeris radicata	0	0	0	0	1	2	1	2
Juncus bufonius	0	0	0	0	0	2	0	0
Leucanthemum vulgare	0	0	0	0	0	0	1	0
Lotus corniculatus	50	0	0	0	0.01	3	40	25
Lupinus sp. (seedling)	0	0	0	0	0	0	0	0
Lythrum portula	0	0	0	0	0	0	0	0
Medicago lupulina	0	0	0	0	0	0	1	0
Montia linearis	0	3	0	0	0	0	0	0
Moss	0	35	4	2	25	5	5	5
Myosotis discolor	0	1	4	3	0	0	0	0
Parentucellia viscosa	0	0	0	1	2	35	5	5
Plagiobothrys figuratus	0	0	0	0	0	0	0	0
Plagiobothrys scouleri	0	0	0	1	0	0	0	0
Poa annua	0	1	0	0	0	0	0	0
Poa trivialis	0	0	5	1	2	0	0	0
Rorippa curvisiliqua	0	0	0	0	0	0	0	0
Solidago canadensis	0	0	0	0	0	0	0	0
Trifolium hybridum	0	0	0	0	0	0	0	0
Trifolium pratense	0	0	0	0	0	0	3	0
Trifolium repens	0	0	0	0	0	0	0	0
Veronica peregrina	0	0	0	0	0	0	0	0
Vicia hirsuta	1	0	0	0	0	0	3	0
Vicia sativa	0	0	0	0	0	0	1	0

Site: Foster Creek WMB

Author: John Christy

Date: 28 May 2010

Transect: T7S

Plot type: PFO	Stem Counts			
	1	6	7	8
Plot number				
Alnus rubra	0	0	0	0
Cornus sericea, dead	1	0	0	0
Cornus sericea, live	13	11	3	0
Fraxinus latifolia	16	15	20	17
Lonicera involucrata	1	3	1	5
Physocarpus capitatus, dead	0	0	1	1
Physocarpus capitatus, live	0	2	1	1
Rosa pisocarpa	0	0	1	8
Spiraea douglasii	0	4	0	1

Comments: Stems live unless noted otherwise.

Site: Foster Creek WMB

Author: John Christy

Date: 28 May 2010

Transect: T8S

Plot type: herbaceous	Percent Cover							
Plot number	1	2	3	4	5	6	7	8
<i>Agrostis exarata</i>	0	0	0	0	0	0	0	0
<i>Anthoxanthum odoratum</i>	0	1	30	25	0	3	15	5
Bare/ Litter	0	0	0	25	0	2	55	10
<i>Deschampsia caespitosa</i>	35	55	0	30	10	0	2	15
<i>Deschampsia elongata</i>	0	0	0	0	0	0	0	0
<i>Holcus lanatus</i>	0	5	50	2	8	1	0	0
<i>Hordeum brachyantherum</i>	35	2	0	3	50	45	0	0
<i>Hypochaeris radicata</i>	1	0	1	1	0	4	2	5
<i>Leucanthemum vulgare</i>	3	0	1	0	3	4	0	2
<i>Lotus corniculatus</i>	3	30	20	15	35	30	20	30
<i>Montia linearis</i>	0	0	0	0	0	0	0	3
Moss	2	2	0	10	0	5	5	30
<i>Myosotis discolor</i>	0	0	0	0	1	0	0	2
<i>Parentucellia viscosa</i>	2	1	2	0	0	4	0	2
<i>Poa trivialis</i>	0	0	0	0	0	0	2	0
<i>Rumex acetosella</i>	0	0	0	0	0	3	0	3
<i>Trifolium pratense</i>	0	0	0	1	0	0	0	0
<i>Trifolium repens</i>	0	1	3	0	0	0	0	0
<i>Vicia hirsuta</i>	0	1	0	0	2	0	0	0
<i>Vicia sativa</i>	0	0	0	0	0	0	0	0
<i>Vulpia bromoides</i>	0	0	0	0	0	0	0	0

Site: Foster Creek WMB
Author: John Christy
Date: 28 May 2010
Transect: T8S

Plot type: PFO	Stem Counts							
Plot number	1	2	3	4	5	6	7	8
Alnus rubra, dead	0	0	0	1	1	0	0	0
Cornus sericea, dead	0	0	0	0	0	0	0	2
Cornus sericea, live	2	7	18	5	5	8	5	6
Crataegus monogyna	0	0	2	0	0	0	0	0
Frangula purshiana	2	0	0	0	0	0	0	0
Fraxinus latifolia	17	18	16	11	12	14	20	8
Lonicera involucrata, dead	0	0	0	0	0	0	0	1
Lonicera involucrata, live	5	3	4	1	6	0	8	1
Physocarpus capitatus	0	3	0	1	8	9	7	1
Populus balsamifera ssp. trichocarpa	0	0	0	0	0	30	0	0
Rosa pisocarpa	0	1	0	2	4	0	0	14
Spiraea douglasii	0	0	0	0	0	1	0	0
Symphoricarpos albus	0	0	0	1	0	0	1	5

APPENDIX B. 2010 VEGETATION COVER DATA (Upland Plots)

Note: Lettering of upland plots was changed after 2009 monitoring report (H changed to A, G to B, F to C, and E to D).

Site: Foster Creek WMB

Author: John Christy

Date: 27/28 May 2010

Transect: n/a

Plot type: Upland Plot, herbaceous Plot number	Percent Cover			
	A	B	C	D
Agrostis stolonifera	0	0	5	0
Anthoxanthum odoratum	10	2	0	0
Bare/ Litter	5	15	10	15
Camassia quamash	0	1	0	3
Cardamine occidentalis	0	0	0	0
Carex sp. (seedling)	0	0	0	0
Cerastium glomeratum	4	0	0	0
Daucus carota (?, seedling)	0	0	0.01	0
Deschampsia elongata	20	3	0	3
Dichelostemma congestum	0	0	0	0
Epilobium densiflorum	0	0	0	0
Epilobium paniculatum	0	0	0	0
Fraxinus latifolia (seedling)	0	0	0	0
Geranium dissectum	15	45	10	4
Grindelia integrifolia	0	0	0	0
Holcus lanatus	0	3	0	2
Hordeum brachyantherum	25	1	3	0
Hypochaeris radicata	2	0	0	1
Juncus bufonius	0	0	0	0
Leucanthemum vulgare	1	1	0.01	1
Lotus corniculatus	0	0	3	0
Lupinus sp. (seedling)	0	2	0	0
Medicago lupulina	2	0	0	0
Montia linearis	0	0	3	0
Moss	3	5	0	45
Myosotis discolor	5	20	35	40
Parentucellia viscosa	1	0	10	5
Poa trivialis	0	0	3	0
Potentilla sp. (seedling)	0	0	0.01	0
Rumex acetosella	0	0	0	0
Senecio vulgaris	0	0	20	10
Sidalcea (seedling)	0	0	1	0
Veronica arvensis	1	1	0	10
Vicia hirsuta	0	1	3	5
Vicia sativa	0	0	0	0
Vulpia bromoides	15	0	0	0

APPENDIX C. 2010 TRANSECT PHOTOS. All photos taken from endpoint at baseline, looking toward end of transect. Range pole marks first quadrat on each transect.



Photo 1. Transect 1 North



Photo 2. Transect 1 South



Photo 3. Transect 2 North



Photo 4. Transect 2 South



Photo 5. Transect 3 North



Photo 6. Transect 3 South



Photo 7. Transect 4 North



Photo 8. Transect 4 South



Photo 9. Transect 5 North



Photo 10. Transect 5 South



Photo 11. Transect 6 South

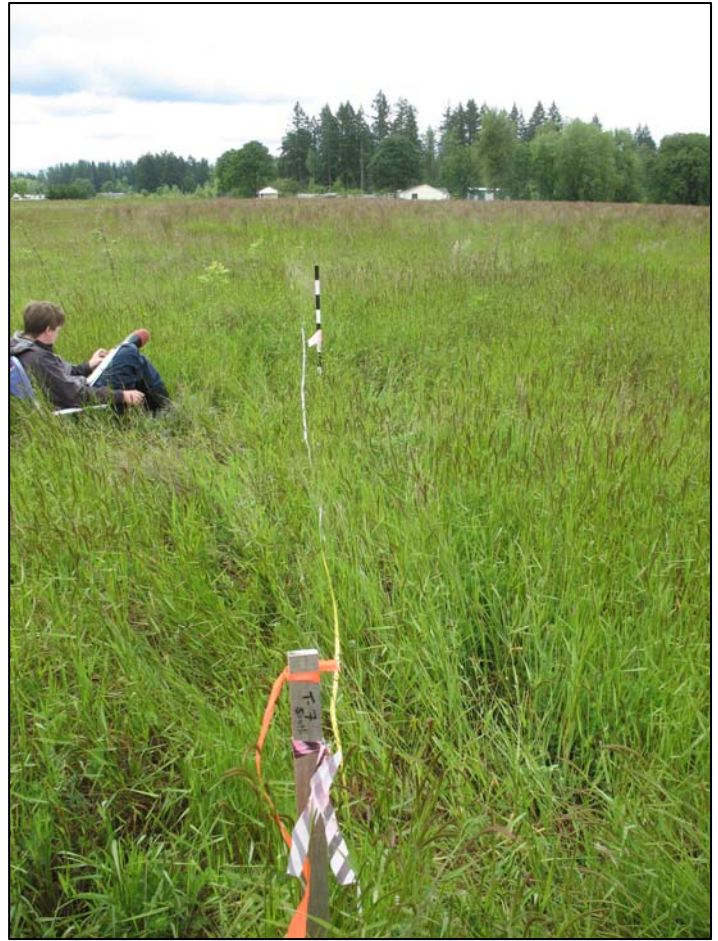


Photo 12. Transect 7 South



Photo 13. Transect 8 South

APPENDIX D. 2009 UPLAND PLOT PHOTOS

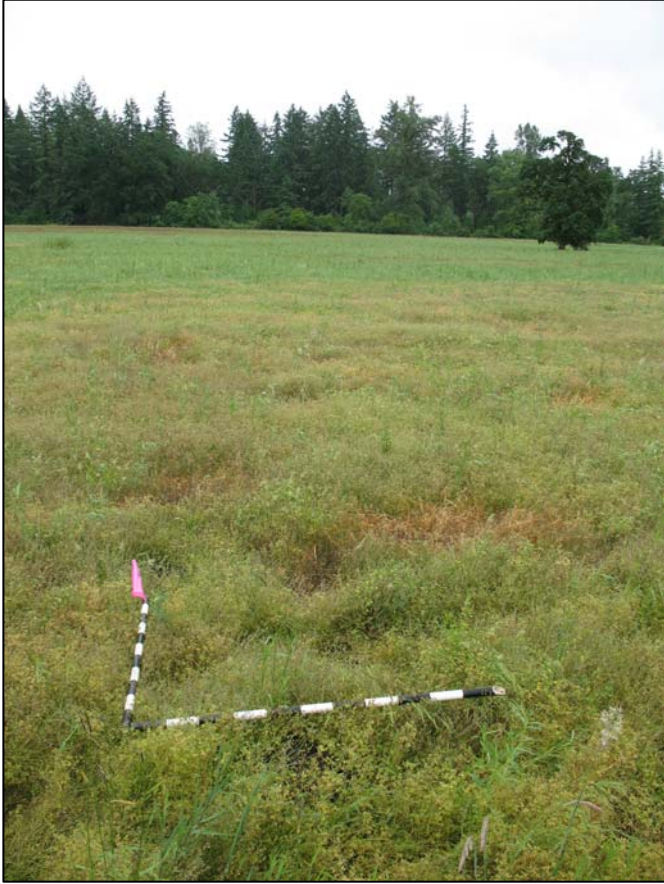


Photo 14. Upland Transect A (formerly H), looking south

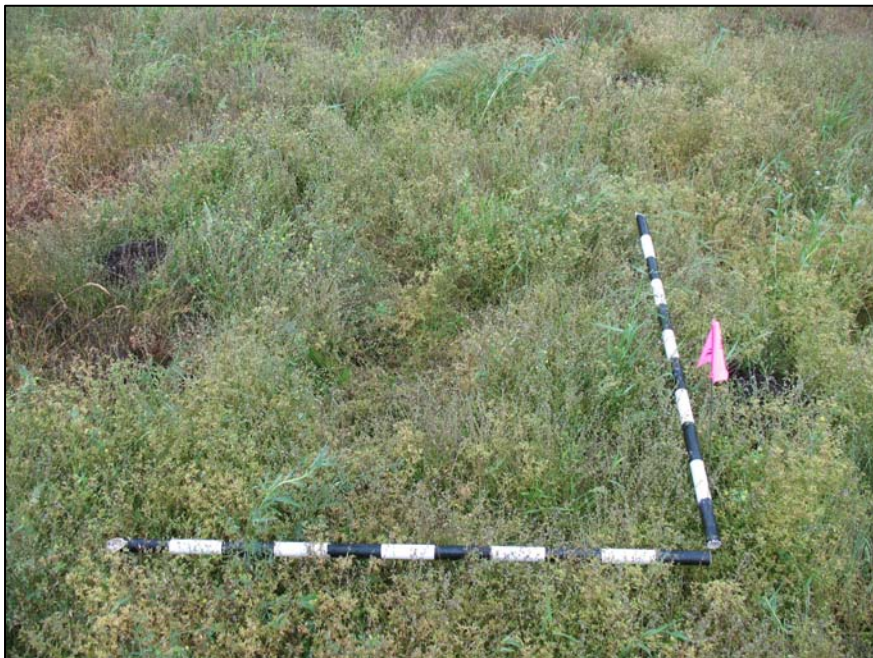


Photo 15. Upland Transect A (formerly H), looking west



Photo 16. Upland Transect B (formerly G), looking south

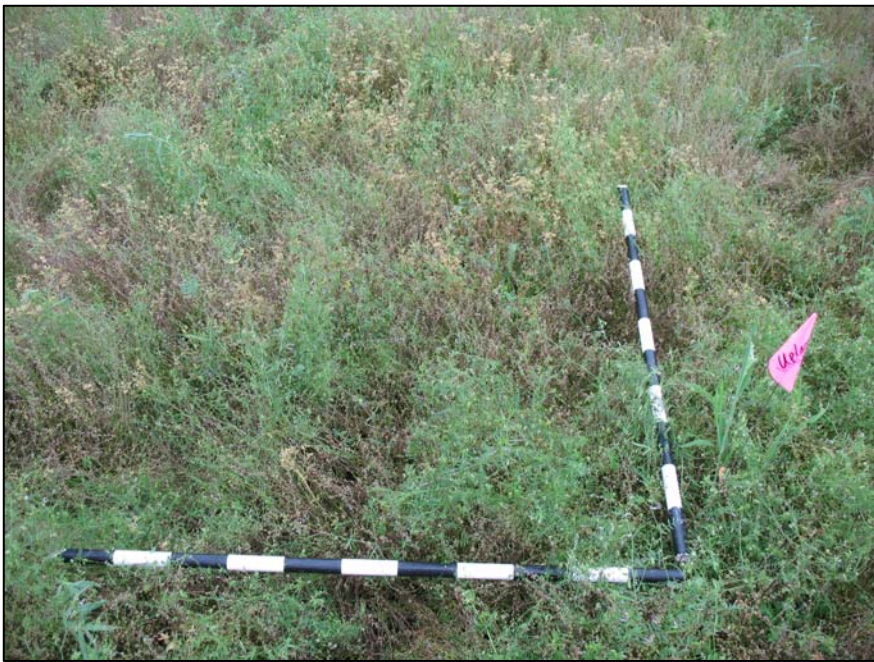


Photo 17. Upland Transect B (formerly G), looking west



Photo 18. Upland Transect C (formerly F), looking south



Photo 19. Upland Transect C (formerly F), looking west



Photo 20. Upland Plot D (formerly E), looking south



Photo 21. Upland Plot D (formerly E), looking west

APPENDIX E. TRANSECT SUMMARY DATA, 2009-2010.

Site: Foster Creek WMB

Author: John Christy

Date: 6-7-09

Transect: T1N

Plot type: herbaceous	2009			
	Freq	Ave	Min	Max
Juncus bufonius	100	24	2	60
Moss	100	12	3	40
Veronica peregrina	88	3	0	10
Bare/ Litter	75	8	0	40
Hypochaeris radicata	75	6	0	20
Lotus corniculatus	75	2	0	3
Montia linearis	63	15	0	45
Camassia quamash	63	3	0	15
Myosotis discolor	50	8	0	35
Deschampsia elongata	50	6	0	15
Epilobium densiflorum	50	4	0	15
Medicago lupulina	50	1	0	5
Epilobium ciliatum ssp. watsonii	50	1	0	3
Trifolium hybridum	50	1	0	2
Plagiobothrys scouleri	38	2	0	6
Agrostis exarata	38	1	0	3
Parentucellia viscosa	38	0	0	1
Rorippa curvisiliqua	38	0	0	1
Plagiobothrys figuratus	25	1	0	4
Anthoxanthum odoratum	25	1	0	2
Navarretia sp.	25	1	0	2
Senecio vulgaris	25	0	0	2
Deschampsia caespitosa	25	0	0	1
Gnaphalium palustre	25	0	0	1
Cerastium fontanum ssp. vulgare	13	3	0	25
Cardamine occidentalis	13	2	0	15
Agrostis stolonifera	13	1	0	6
Holcus lanatus	13	0	0	3
Poa trivialis	13	0	0	3
Cirsium vulgare	13	0	0	2
Panicum sp. (seedling)	13	0	0	2
Fraxinus latifolia (seedling)	13	0	0	1
Grindelia integrifolia	13	0	0	1
Hordeum brachyantherum	13	0	0	1
Leucanthemum vulgare	13	0	0	1
Montia fontana	13	0	0	1

Site: Foster Creek WMB

Author: John Christy

Date: 31 May 2010

Transect: T1N

Plot type: herbaceous	2010			
	Freq	Ave	Min	Max
Deschampsia elongata	88	19	0	50
Bare/ Litter	88	14	0	40
Agrostis exarata	75	8	0	35
Moss	75	5	0	25
Anthoxanthum odoratum	75	3	0	10
Deschampsia caespitosa	63	12	0	45
Myosotis discolor	50	7	0	25
Montia linearis	50	5	0	30
Hordeum brachyantherum	50	4	0	20
Poa trivialis	38	7	0	40
Camassia quamash	38	5	0	35
Epilobium densiflorum	38	1	0	5
Parentucellia viscosa	38	1	0	4
Veronica peregrina	38	1	0	3
Epilobium ciliatum ssp. watsonii	38	0	0	1
Lotus corniculatus	38	0	0	1
Medicago lupulina	25	5	0	35
Agrostis stolonifera	25	2	0	15
Juncus bufonius	25	2	0	10
Cerastium glomeratum	25	1	0	5
Hypochaeris radicata	25	1	0	4
Carex unilateralis	25	1	0	2
Holcus lanatus	25	0	0	2
Triteleia hyacinthina	25	0	0	2
Veronica arvensis	25	0	0	1
Cerastium fontanum ssp. vulgare	13	1	0	5
Alopecurus geniculatus	13	0	0	2
Beckmannia syzigachne	13	0	0	1
Bromus racemosus	13	0	0	1
Plagiobothrys figuratus	13	0	0	1
Potentilla sp.	13	0	0	1
Aquilegia formosa	13	0	0	0.01
Cardamine occidentalis	0	0	0	0
Cirsium vulgare	0	0	0	0
Fraxinus latifolia (seedling)	0	0	0	0
Gnaphalium palustre	0	0	0	0
Grindelia integrifolia	0	0	0	0
Leucanthemum vulgare	0	0	0	0
Montia fontana	0	0	0	0
Navarretia sp.	0	0	0	0
Panicum sp. (seedling)	0	0	0	0
Plagiobothrys scouleri	0	0	0	0
Rorippa curvisiliqua	0	0	0	0

Senecio vulgaris	0	0	0	0
Trifolium hybridum	0	0	0	0

Site: Foster Creek WMB

Author: John Christy

Date: 6-4-09

Transect: T1S

Plot type: herbaceous	2009			
	Freq	Percent cover		
		Ave	Min	Max
Hypochaeris radicata	100	26	0.1	65
Montia linearis	100	19	1	55
Moss	100	14	5	35
Epilobium densiflorum	88	14	0	35
Anthoxanthum odoratum	75	1	0	5
Myosotis discolor	63	9	0	50
Lotus corniculatus	63	2	0	5
Juncus bufonius	63	1	0	3
Bare/ Litter	50	6	0	20
Deschampsia elongata	50	1	0	4
Medicago lupulina	50	1	0	3
Epilobium ciliatum ssp. watsonii	50	1	0	2
Cerastium glomeratum	38	4	0	15
Agrostis exarata	38	2	0	15
Senecio vulgaris	38	1	0	4
Veronica arvensis	38	1	0	4
Epilobium paniculatum	38	1	0	2
Parentucellia viscosa	38	0	0	2
Gnaphalium palustre	25	1	0	8
Panicum sp. (seedling)	25	1	0	5
Leucanthemum vulgare	25	1	0	5
Cardamine occidentalis	25	1	0	3
Cerastium fontanum ssp. vulgare	25	1	0	3
Trifolium hybridum	25	1	0	3
Ranunculus repens	25	0	0	2
Fraxinus latifolia (seedling)	13	1	0	5
Poa trivialis	13	1	0	5
Vulpia bromoides	13	1	0	4
Deschampsia caespitosa	13	0	0	2
Lupinus sp. (seedling)	13	0	0	1
Rorippa curvisiliqua	13	0	0	1
Rumex acetosella	13	0	0	1
Veronica peregrina	13	0	0	1
Plagiobothrys figuratus	13	0	0	0.1

Site: Foster Creek WMB

Author: John Christy

Date: 27 May 2010

Transect: T1S

Plot type: herbaceous	2010			
	Freq	Percent cover		
		Ave	Min	Max
Moss	100	26	5	50
Deschampsia elongata	100	8	1	20
Montia linearis	88	16	0	35
Bare/ Litter	88	13	0	25
Deschampsia caespitosa	75	4	0	15
Poa trivialis	63	14	0	50
Myosotis discolor	63	12	0	40
Hordeum brachyantherum	50	2	0	5
Cerastium fontanum ssp. vulgare	50	1	0	4
Lotus corniculatus	50	0	0	2
Hypochaeris radicata	50	0	0	1
Veronica arvensis	38	1	0	4
Parentucellia viscosa	38	0	0	1
Anthoxanthum odoratum	25	1	0	4
Agrostis exarata	25	1	0	3
Cerastium glomeratum	25	0	0	2
Fraxinus latifolia (seedling)	25	0	0	1
Vulpia bromoides	13	3	0	20
Geranium molle	13	1	0	5
Holcus lanatus	13	1	0	4
Montia fontana	13	1	0	4
Alopecurus geniculatus	13	0	0	3
Crataegus monogyna (seedling)	13	0	0	2
Glyceria occidentalis	13	0	0	2
Juncus bufonius	13	0	0	2
Lupinus sp. (seedling)	13	0	0	2
Medicago lupulina	13	0	0	2
Unknown grass (leaves only)	13	0	0	2
Epilobium ciliatum ssp. watsonii	13	0	0	1
Geum macrophyllum	13	0	0	1
Ranunculus repens	13	0	0	1
Rumex acetosella	13	0	0	1
Senecio vulgaris	13	0	0	1
Camassia quamash	13	0	0	0.01
Cardamine occidentalis	0	0	0	0
Epilobium densiflorum	0	0	0	0
Epilobium paniculatum	0	0	0	0
Gnaphalium palustre	0	0	0	0
Leucanthemum vulgare	0	0	0	0
Panicum sp. (seedling)	0	0	0	0
Plagiobothrys figuratus	0	0	0	0
Rorippa curvisiliqua	0	0	0	0
Trifolium hybridum	0	0	0	0
Veronica peregrina	0	0	0	0

Site: Foster Creek WMB

Author: John Christy

Date: 6-7-09

Transect: T2N

Plot type: herbaceous	2009			
	Freq	Percent cover		
		Ave	Min	Max
Juncus bufonius	100	34	4	60
Bare/ Litter	100	10	1	25
Moss	100	10	1	35
Lotus corniculatus	88	3	0	6
Agrostis stolonifera	75	1	0	3
Plagiobothrys scouleri	63	8	0	35
Hypochaeris radicata	63	6	0	20
Veronica peregrina	63	3	0	15
Deschampsia elongata	63	2	0	5
Myosotis discolor	50	2	0	10
Leucanthemum vulgare	50	1	0	5
Gnaphalium palustre	50	1	0	4
Epilobium ciliatum ssp. watsonii	50	1	0	2
Parentucellia viscosa	50	1	0	1
Epilobium densiflorum	38	3	0	20
Carex sp. (seedling)	38	1	0	3
Fraxinus latifolia (seedling)	38	1	0	2
Grindelia integrifolia	38	0	0	1
Montia linearis	25	7	0	35
Rorippa curvisiliqua	25	1	0	5
Lythrum portula	25	1	0	4
Glyceria occidentalis	25	1	0	3
Plagiobothrys figuratus	25	1	0	3
Anthoxanthum odoratum	25	0	0	2
Hordeum brachyantherum	25	0	0	1
Cerastium fontanum ssp. vulgare	13	2	0	15
Geranium dissectum	13	1	0	5
Myosotis laxa	13	1	0	4
Epilobium paniculatum	13	0	0	3
Fraxinus latifolia (planted)	13	0	0	3
Trifolium hybridum	13	0	0	3
Agrostis exarata	13	0	0	2
Ranunculus repens	13	0	0	2
Triteleia hyacinthina	13	0	0	2
Camassia quamash	13	0	0	1
Cardamine occidentalis	13	0	0	1
Cerastium glomeratum	13	0	0	1
Holcus lanatus	13	0	0	1
Matricaria recutita	13	0	0	1
Poa annua	13	0	0	1
Poa sp. (seedling)	13	0	0	1
Rumex acetosella	13	0	0	1
Solidago canadensis	13	0	0	1
Trifolium repens	13	0	0	1

Site: Foster Creek WMB

Author: John Christy

Date: 31 May 2010

Transect: T2N

Plot type: herbaceous	2010			
	Freq	Percent cover		
		Ave	Min	Max
Bare/ Litter	100	11	2	30
Deschampsia elongata	88	29	0	55
Juncus bufonius	88	7	0	45
Parentucellia viscosa	75	3	0	10
Lotus corniculatus	63	7	0	30
Deschampsia caespitosa	63	4	0	15
Hordeum brachyantherum	63	3	0	5
Hypochaeris radicata	63	2	0	5
Plagiobothrys scouleri	50	12	0	50
Myosotis discolor	50	4	0	20
Montia linearis	50	3	0	15
Plectritis congesta	50	2	0	5
Plagiobothrys figuratus	50	1	0	2
Agrostis exarata	50	1	0	1
Moss	38	2	0	10
Epilobium paniculatum	38	2	0	10
Poa trivialis	38	1	0	3
Cerastium fontanum ssp. vulgare	38	1	0	4
Veronica peregrina	38	0	0	1
Trifolium repens	25	1	0	5
Medicago lupulina	25	1	0	5
Anthoxanthum odoratum	25	1	0	3
Epilobium ciliatum ssp. watsonii	25	0	0	2
Camassia quamash	25	0	0	2
Agrostis stolonifera	25	0	0	2
Ranunculus orthorhynchus	25	0	0	1
Holcus lanatus	25	0	0	1
Fraxinus latifolia (seedling)	25	0	0	1
Epilobium densiflorum	13	4	0	35
Trifolium hybridum	13	1	0	10
Glyceria occidentalis	13	1	0	5
Ranunculus repens	13	1	0	4
Fraxinus latifolia (planted)	13	1	0	4
Carex unilateralis	13	1	0	4
Triteleia hyacinthina	13	0	0	3
Myosotis laxa	13	0	0	2
Bromus racemosus	13	0	0	2
Sisyrinchium idahoense	13	0	0	1
Poa annua	13	0	0	1
Grindelia integrifolia	13	0	0	1
Geranium dissectum	13	0	0	1
Cerastium glomeratum	13	0	0	1
Carex obnupta	13	0	0	1
Rorippa curvisiliqua	13	0	0	0.01

Gratiola ebracteata	13	0	0	0.1	Daucus carota	13	0	0	0.01
Panicum sp. (seedling)	13	0	0	0.1	Solidago canadensis	0	0	0	0
Polygonum hydropiper	13	0	0	0.1	Rumex acetosella	0	0	0	0
					Polygonum hydropiper	0	0	0	0
					Poa sp. (seedling)	0	0	0	0
					Panicum sp. (seedling)	0	0	0	0
					Matricaria recutita	0	0	0	0
					Lythrum portula	0	0	0	0
					Leucanthemum vulgare	0	0	0	0
					Gratiola ebracteata	0	0	0	0
					Gnaphalium palustre	0	0	0	0
					Carex sp. (seedling)	0	0	0	0
					Cardamine occidentalis	0	0	0	0

Site: Foster Creek WMB

Author: John Christy

Date: 6-4-09

Transect: T2S

Plot type: herbaceous	2009			
	Freq	Percent cover		
		Ave	Min	Max
Epilobium densiflorum	100	20	5	50
Moss	100	8	2	35
Lotus corniculatus	100	5	1	25
Montia linearis	88	12	0	35
Deschampsia elongata	88	7	0	15
Bare/ Litter	75	11	0	70
Myosotis discolor	75	10	0	50
Hypochaeris radicata	75	8	0	25
Cerastium fontanum ssp. vulgare	63	3	0	10
Medicago lupulina	63	2	0	10
Ranunculus repens	63	1	0	3
Juncus bufonius	50	2	0	10
Camassia quamash	50	1	0	5
Plagiobothrys scouleri	50	0	0	1
Montia fontana	38	3	0	10
Epilobium ciliatum ssp. watsonii	38	1	0	4
Parentucellia viscosa	38	1	0	5
Plagiobothrys figuratus	38	1	0	4
Hordeum brachyantherum	38	1	0	2
Cardamine occidentalis	25	4	0	20
Cerastium glomeratum	25	3	0	20
Anthoxanthum odoratum	25	1	0	5
Senecio vulgaris	25	1	0	5
Epilobium paniculatum	25	1	0	3
Rumex acetosella	25	1	0	3
Agrostis exarata	25	0	0	2
Leucanthemum vulgare	25	0	0	2
Veronica arvensis	25	0	0	2
Fraxinus latifolia (seedling)	25	0	0	1
Deschampsia caespitosa	13	0	0	1
Lactuca serriola	13	0	0	1
Vulpia bromoides	13	0	0	1
Rorippa curvisiliqua	13	0	0	0.1
Rumex aquaticus var. fenestratus	13	0	0	0.1

Site: Foster Creek WMB

Author: John Christy

Date: 27 May 2010

Transect: T2S

Plot type: herbaceous	2010			
	Freq	Percent cover		
		Ave	Min	Max
Deschampsia elongata	100	21	5	45
Deschampsia caespitosa	100	13	2	30
Moss	88	19	0	55
Bare/ Litter	88	11	0	35
Montia linearis	75	12	0	30
Hordeum brachyantherum	75	5	0	20
Myosotis discolor	63	5	0	20
Camassia quamash	50	1	0	5
Lotus corniculatus	50	1	0	2
Agrostis exarata	38	3	0	20
Poa trivialis	38	1	0	5
Cerastium fontanum ssp. vulgare	38	1	0	5
Veronica arvensis	38	1	0	3
Parentucellia viscosa	38	1	0	2
Vulpia bromoides	25	2	0	15
Montia fontana	25	1	0	2
Glyceria occidentalis	25	0	0	2
Cerastium glomeratum	25	0	0	1
Alopecurus geniculatus	13	2	0	15
Anthoxanthum odoratum	13	0	0	3
Phalaris arundinacea	13	0	0	3
Senecio vulgaris	13	0	0	3
Holcus lanatus	13	0	0	2
Juncus bufonius	13	0	0	2
Ranunculus repens	13	0	0	1
Trifolium hybridum	13	0	0	1
Cardamine occidentalis	0	0	0	0
Epilobium ciliatum ssp. watsonii	0	0	0	0
Epilobium densiflorum	0	0	0	0
Epilobium paniculatum	0	0	0	0
Fraxinus latifolia (seedling)	0	0	0	0
Hypochaeris radicata	0	0	0	0
Lactuca serriola	0	0	0	0
Leucanthemum vulgare	0	0	0	0
Medicago lupulina	0	0	0	0
Plagiobothrys figuratus	0	0	0	0
Plagiobothrys scouleri	0	0	0	0
Rorippa curvisiliqua	0	0	0	0
Rumex acetosella	0	0	0	0
Rumex aquaticus var. fenestratus	0	0	0	0

Site: Foster Creek WMB

Author: John Christy

Date: 6-7-09

Transect: T3N

Plot type: herbaceous	2009			
	Freq	Percent cover		
		Ave	Min	Max
Moss	88	7	0	20
Bare/ Litter	88	5	0	15
Juncus bufonius	75	27	0	60
Epilobium densiflorum	75	8	0	25
Myosotis discolor	63	16	0	60
Deschampsia elongata	63	4	0	10
Lotus corniculatus	63	3	0	15
Gnaphalium palustre	63	2	0	10
Hypochaeris radicata	63	1	0	4
Parentucellia viscosa	63	1	0	1
Montia linearis	50	14	0	60
Fraxinus latifolia (seedling)	50	3	0	15
Plagiobothrys scouleri	50	2	0	5
Leucanthemum vulgare	38	1	0	5
Agrostis exarata	38	1	0	3
Epilobium ciliatum ssp. watsonii	38	1	0	3
Veronica peregrina	38	1	0	2
Holcus lanatus	38	0	0	1
Vicia hirsuta	25	3	0	20
Rorippa curvisiliqua	25	1	0	4
Agrostis stolonifera	25	1	0	4
Hordeum brachyantherum	25	0	0	2
Triteleia hyacinthina	25	0	0	2
Camassia quamash	25	0	0	1
Deschampsia caespitosa	25	0	0	1
Myosotis laxa	25	0	0	1
Plagiobothrys figuratus	13	1	0	4
Trifolium repens	13	1	0	4
Cardamine occidentalis	13	0	0	3
Medicago lupulina	13	0	0	3
Poa trivialis	13	0	0	3
Anthoxanthum odoratum	13	0	0	2
Crataegus monogyna (seedling)	13	0	0	2
Sonchus asper	13	0	0	2
Allium vineale	13	0	0	1
Geranium molle	13	0	0	1
Lythrum portula	13	0	0	1
Montia fontana	13	0	0	1
Panicum sp. (seedling)	13	0	0	1
Potentilla sp. (seedling)	13	0	0	1
Ranunculus repens	13	0	0	1
Rumex acetosella	13	0	0	1

Site: Foster Creek WMB

Author: John Christy

Date: 28/31 May 2010

Transect: T3N

Plot type: herbaceous	2010			
	Freq	Percent cover		
		Ave	Min	Max
Deschampsia elongata	100	27	3	65
Hordeum brachyantherum	88	12	0	35
Bare/ Litter	88	10	0	25
Deschampsia caespitosa	75	13	0	40
Myosotis discolor	75	3	0	5
Holcus lanatus	75	2	0	3
Parentucellia viscosa	63	2	0	10
Montia linearis	50	5	0	20
Lotus corniculatus	50	1	0	3
Vicia hirsuta	38	3	0	20
Hypochaeris radicata	38	3	0	15
Plagiobothrys scouleri	38	2	0	10
Plagiobothrys figuratus	38	1	0	5
Moss	38	1	0	5
Agrostis exarata	38	1	0	3
Anthoxanthum odoratum	38	1	0	3
Cerastium glomeratum	38	0	0	1
Trifolium repens	25	7	0	50
Juncus bufonius	25	1	0	5
Poa trivialis	25	1	0	5
Fraxinus latifolia (seedling)	25	1	0	3
Medicago lupulina	25	1	0	3
Epilobium ciliatum ssp. watsonii	25	1	0	2
Geranium dissectum	13	3	0	20
Crataegus monogyna (seedling)	13	1	0	10
Epilobium densiflorum	13	1	0	5
Lythrum portula	13	1	0	4
Gratiola neglecta	13	0	0	3
Alopecurus geniculata	13	0	0	2
Carex obnupta	13	0	0	2
Cerastium fontanum ssp. vulgare	13	0	0	2
Geum macrophyllum	13	0	0	2
Juncus tenuis	13	0	0	2
Triteleia hyacinthina	13	0	0	2
Allium vineale	13	0	0	1
Camassia quamash	13	0	0	1
Leucanthemum vulgare	13	0	0	1
Lolium perenne ssp. multiflorum	13	0	0	1
Myosotis laxa	13	0	0	1
Plectritis congesta	13	0	0	1
Veronica peregrina	13	0	0	1
Vicia sativa	13	0	0	1
Daucus carota	13	0	0	0.01
Ranunculus repens	13	0	0	0.01
Agrostis stolonifera	0	0	0	0

Cardamine occidentalis	0	0	0	0
Geranium molle	0	0	0	0
Gnaphalium palustre	0	0	0	0
Montia fontana	0	0	0	0
Panicum sp. (seedling)	0	0	0	0
Potentilla sp. (seedling)	0	0	0	0
Rorippa curvisiliqua	0	0	0	0
Rumex acetosella	0	0	0	0
Sonchus asper	0	0	0	0

Site: Foster Creek WMB

Author: John Christy

Date: 6-4-09

Transect: T3S

Plot type: herbaceous	2009			
	Freq	Percent cover		
		Ave	Min	Max
Lotus corniculatus	100	4	1	6
Hypochaeris radicata	88	6	0	20
Juncus bufonius	75	24	0	75
Moss	75	19	0	60
Montia linearis	75	10	0	35
Epilobium densiflorum	75	5	0	20
Deschampsia elongata	75	2	0	6
Bare/ Litter	63	6	0	20
Anthoxanthum odoratum	50	2	0	6
Holcus lanatus	50	1	0	6
Plagiobothrys figuratus	50	1	0	3
Cerastium fontanum ssp. vulgare	38	11	0	65
Camassia quamash	38	2	0	15
Agrostis stolonifera	38	2	0	6
Agrostis exarata	38	1	0	4
Plagiobothrys scouleri	38	1	0	4
Hordeum brachyantherum	38	1	0	2
Myosotis discolor	25	5	0	35
Medicago lupulina	25	3	0	20
Veronica peregrina	25	1	0	3
Fraxinus latifolia (seedling)	25	1	0	3
Parentucellia viscosa	25	0	0	2
Triteleia hyacinthina	25	0	0	2
Rorippa curvisiliqua	25	0	0	1
Gnaphalium palustre	25	0	0	1
Glyceria occidentalis	13	1	0	4
Poa trivialis	13	0	0	3
Ranunculus repens	13	0	0	2
Rumex acetosella	13	0	0	2
Vulpia bromoides	13	0	0	2
Deschampsia caespitosa	13	0	0	1
Leucanthemum vulgare	13	0	0	1
Poa annua	13	0	0	1
Vicia hirsuta	13	0	0	1
Vicia sativa	13	0	0	1

Site: Foster Creek WMB

Author: John Christy

Date: 27 May 2010

Transect: T3S

Plot type: herbaceous	2010			
	Freq	Percent cover		
		Ave	Min	Max
Moss	100	23	2	50
Bare/ Litter	88	20	0	55
Deschampsia elongata	75	17	0	45
Montia linearis	75	7	0	30
Deschampsia caespitosa	75	6	0	15
Lotus corniculatus	63	1	0	2
Myosotis discolor	50	7	0	25
Agrostis stolonifera	50	5	0	20
Camassia quamash	50	2	0	10
Juncus bufonius	50	1	0	5
Montia fontana	50	1	0	3
Hordeum brachyantherum	38	4	0	25
Agrostis exarata	38	3	0	10
Anthoxanthum odoratum	38	2	0	10
Holcus lanatus	38	1	0	5
Cerastium fontanum ssp. vulgare	25	2	0	10
Glyceria occidentalis	25	1	0	4
Parentucellia viscosa	25	0	0	2
Fraxinus latifolia (seedling)	25	0	0	1
Ranunculus repens	25	0	0	1
Alopecurus geniculatus	13	1	0	5
Poa trivialis	13	1	0	5
Hypochaeris radicata	13	1	0	4
Plagiobothrys scouleri	13	0	0	2
Triteleia hyacinthina	13	0	0	2
Crataegus douglasii (seedling)	13	0	0	1
Veronica arvensis	13	0	0	1
Crataegus monogyna (seedling)	13	0	0	0.01
Epilobium ciliatum ssp. watsonii	13	0	0	0.01
Geum macrophyllum (seedling)	13	0	0	0.01
Plagiobothrys figuratus	13	0	0	0.01
Rumex acetosella	13	0	0	0.01
Epilobium densiflorum	0	0	0	0
Gnaphalium palustre	0	0	0	0
Leucanthemum vulgare	0	0	0	0
Medicago lupulina	0	0	0	0
Poa annua	0	0	0	0
Rorippa curvisiliqua	0	0	0	0
Veronica peregrina	0	0	0	0
Vicia hirsuta	0	0	0	0
Vicia sativa	0	0	0	0
Vulpia bromoides	0	0	0	0

Site: Foster Creek WMB
 Author: John Christy
 Date: 6-7-09

Transect: T4N Plot type: herbaceous	2009			
	Freq	Percent cover		
		Ave	Min	Max
Hypochaeris radicata	100	2	1	4
Lotus corniculatus	83	11	0	55
Parentucellia viscosa	83	4	0	20
Hordeum brachyantherum	67	11	0	35
Moss	67	10	0	20
Epilobium densiflorum	67	9	0	30
Bare/ Litter	67	5	0	20
Deschampsia elongata	67	5	0	15
Plagiobothrys figuratus	67	4	0	15
Plagiobothrys scouleri	67	3	0	4
Juncus bufonius	50	14	0	35
Montia linearis	50	2	0	5
Anthoxanthum odoratum	50	1	0	4
Trifolium repens	50	1	0	2
Cerastium glomeratum	33	6	0	20
Myosotis discolor	33	3	0	15
Vicia hirsuta	33	2	0	8
Poa trivialis	33	1	0	4
Holcus lanatus	33	1	0	3
Ranunculus repens	33	1	0	4
Leucanthemum vulgare	33	1	0	3
Medicago lupulina	33	1	0	3
Agrostis stolonifera	33	1	0	2
Gnaphalium palustre	33	1	0	2
Epilobium paniculatum	33	0	0	1
Veronica peregrina	33	0	0	1
Geranium dissectum	17	1	0	5
Deschampsia caespitosa	17	1	0	4
Poa annua	17	1	0	3
Trifolium hybridum	17	1	0	3
Vicia sativa	17	1	0	3
Cerastium fontanum ssp. vulgare	17	0	0	2
Montia fontana	17	0	0	2
Myosotis laxa	17	0	0	2
Agrostis exarata	17	0	0	1
Camassia quamash	17	0	0	1
Navarretia sp.	17	0	0	1
Rorippa curvisiliqua	17	0	0	1
Rumex aquaticus var. fenestratus	17	0	0	1
Trifolium pratense	17	0	0	1

Site: Foster Creek WMB
 Author: John Christy
 Date: 28 May 2010

Transect: T4N Plot type: herbaceous	2010			
	Freq	Percent cover		
		Ave	Min	Max
Bare/ Litter	83	15	0	30
Hordeum brachyantherum	83	9	0	40
Deschampsia elongata	67	20	0	35
Deschampsia caespitosa	67	9	0	20
Moss	67	8	0	25
Montia linearis	50	2	0	5
Cerastium glomeratum	50	1	0	2
Lotus corniculatus	33	10	0	55
Anthoxanthum odoratum	33	6	0	20
Plectritis congesta	33	3	0	15
Poa trivialis	33	3	0	10
Myosotis discolor	33	2	0	10
Hypochaeris radicata	33	1	0	5
Leucanthemum vulgare	33	1	0	4
Parentucellia viscosa	33	1	0	3
Plagiobothrys figuratus	33	1	0	3
Holcus lanatus	33	1	0	2
Medicago lupulina	33	1	0	2
Plagiobothrys scouleri	33	0	0	1
Vulpia bromoides	17	4	0	25
Geranium dissectum	17	2	0	10
Agrostis stolonifera	17	1	0	5
Agrostis exarata	17	1	0	3
Epilobium paniculatum	17	1	0	3
Poa annua	17	1	0	3
Poa pratensis	17	1	0	3
Trifolium repens	17	1	0	3
Veronica arvensis	17	1	0	3
Vicia hirsuta	17	1	0	3
Bromus racemosus	17	0	0	2
Carex pachystachya	17	0	0	1
Ranunculus repens	17	0	0	1
Sisyrinchium idahoense	17	0	0	1
Camassia quamash	0	0	0	0
Cerastium fontanum ssp. vulgare	0	0	0	0
Epilobium densiflorum	0	0	0	0
Gnaphalium palustre	0	0	0	0
Juncus bufonius	0	0	0	0
Montia fontana	0	0	0	0
Myosotis laxa	0	0	0	0
Navarretia sp.	0	0	0	0
Rorippa curvisiliqua	0	0	0	0
Rumex aquaticus var. fenestratus	0	0	0	0
Trifolium hybridum	0	0	0	0
Trifolium pratense	0	0	0	0

Veronica peregrina	0	0	0	0
Vicia sativa	0	0	0	0

Site: Foster Creek WMB

Author: John Christy

Date: 6-5-09

Transect: T4S

Plot type: herbaceous	2009			
	Freq	Percent cover		
		Ave	Min	Max
Bare/ Litter	75	17	0	93
Moss	75	9	0	25
Epilobium densiflorum	75	7	0	25
Lotus corniculatus	75	4	0	15
Juncus bufonius	75	2	0	10
Montia linearis	63	13	0	35
Hypochaeris radicata	63	12	0	85
Myosotis discolor	50	13	0	50
Anthoxanthum odoratum	50	1	0	3
Senecio vulgaris	50	1	0	3
Cerastium glomeratum	38	4	0	25
Deschampsia elongata	38	3	0	20
Plagiobothrys scouleri	38	3	0	20
Epilobium paniculatum	38	1	0	5
Camassia quamash	38	1	0	2
Epilobium ciliatum ssp. watsonii	38	1	0	2
Ranunculus repens	38	1	0	3
Parentucellia viscosa	38	1	0	3
Agrostis exarata	38	1	0	2
Plagiobothrys figuratus	25	4	0	30
Lactuca serriola	25	1	0	3
Hordeum brachyantherum	25	1	0	2
Trifolium repens	25	0	0	1
Cerastium fontanum ssp. vulgare	13	2	0	15
Glyceria occidentalis	13	2	0	15
Lythrum portula	13	1	0	5
Ranunculus cf. macounii	13	0	0	3
Alopecurus geniculatus	13	0	0	2
Cardamine occidentalis	13	0	0	2
Downingia elegans	13	0	0	2
Fraxinus latifolia (seedling)	13	0	0	2
Poa trivialis	13	0	0	2
Rorippa curvisiliqua	13	0	0	2
Rumex acetosella	13	0	0	2
Triteleia hyacinthina	13	0	0	2
Cerastium arvense	13	0	0	1
Eleocharis ovata	13	0	0	1
Leucanthemum vulgare	13	0	0	1
Medicago lupulina	13	0	0	1
Stellaria media	13	0	0	1
Vicia hirsuta	13	0	0	1
Carex sp. (seedling)	13	0	0	0.1
Rubus armeniacus (seedling)	13	0	0	0.1
Veronica arvensis	13	0	0	0.1
Vicia sativa	13	0	0	0.1

Site: Foster Creek WMB

Author: John Christy

Date: 27 May 2010

Transect: T4S

Plot type: herbaceous	2010			
	Freq	Percent cover		
		Ave	Min	Max
Bare/ Litter	88	26	0	50
Moss	75	13	0	40
Montia linearis	75	13	0	25
Deschampsia elongata	75	9	0	30
Myosotis discolor	63	12	0	35
Deschampsia caespitosa	63	5	0	20
Hordeum brachyantherum	50	6	0	20
Lotus corniculatus	50	1	0	3
Anthoxanthum odoratum	38	4	0	20
Senecio vulgaris	38	3	0	15
Camassia quamash	38	1	0	3
Cerastium glomeratum	38	1	0	3
Lythrum portula	25	8	0	55
Glyceria occidentalis	25	2	0	15
Triteleia hyacinthina	25	1	0	4
Parentucellia viscosa	25	1	0	2
Plagiobothrys figuratus	25	0	0	2
Vicia hirsuta	25	0	0	2
Veronica arvensis	25	0	0	1
Alopecurus geniculatus	13	4	0	35
Cardamine occidentalis	13	1	0	5
Holcus lanatus	13	0	0	3
Plagiobothrys scouleri	13	0	0	2
Rorippa curvisiliqua	13	0	0	2
Carex sp. (seedling)	13	0	0	1
Cerastium fontanum ssp. vulgare	13	0	0	1
Eleocharis ovata	13	0	0	1
Fraxinus latifolia (seedling)	13	0	0	1
Geranium dissectum	13	0	0	1
Hypochaeris radicata	13	0	0	1
Juncus bufonius	13	0	0	1
Leucanthemum vulgare	13	0	0	1
Ranunculus repens	13	0	0	1
Agrostis exarata	0	0	0	0
Cerastium arvense	0	0	0	0
Downingia elegans	0	0	0	0
Epilobium ciliatum ssp. watsonii	0	0	0	0
Epilobium densiflorum	0	0	0	0
Epilobium paniculatum	0	0	0	0
Lactuca serriola	0	0	0	0
Medicago lupulina	0	0	0	0
Poa trivialis	0	0	0	0
Ranunculus cf. macounii	0	0	0	0
Rubus armeniacus (seedling)	0	0	0	0
Rumex acetosella	0	0	0	0

Stellaria media	0	0	0	0
Trifolium repens	0	0	0	0
Vicia sativa	0	0	0	0

Site: Foster Creek WMB

Author: John Christy

Date: 6-7-09

Transect: T5N

Plot type: herbaceous	2009			
	Freq	Percent cover		
		Ave	Min	Max
Deschampsia elongata	100	12	4	40
Moss	100	11	3	35
Epilobium densiflorum	100	6	3	15
Bare/ Litter	100	3	3	6
Plagiobothrys figuratus	100	3	1	10
Lotus corniculatus	100	1	1	3
Myosotis discolor	75	5	0	15
Juncus bufonius	75	2	0	10
Hypochaeris radicata	75	2	0	4
Epilobium ciliatum ssp. watsonii	75	1	0	3
Plagiobothrys scouleri	75	1	0	2
Montia linearis	50	7	0	40
Hordeum brachyantherum	50	3	0	15
Medicago lupulina	50	2	0	10
Anthoxanthum odoratum	50	2	0	10
Parentucellia viscosa	50	1	0	2
Trifolium repens	50	1	0	2
Cerastium glomeratum	25	1	0	3
Holcus lanatus	25	1	0	3
Geum macrophyllum	25	0	0	2
Poa trivialis	25	0	0	2
Agrostis stolonifera	25	0	0	1
Epilobium paniculatum	25	0	0	1
Fraxinus latifolia (seedling)	25	0	0	1
Rumex acetosella	25	0	0	1
Sonchus asper	25	0	0	1
Triteleia hyacinthina	25	0	0	1
Veronica peregrina	25	0	0	1
Vicia sativa	25	0	0	1

Site: Foster Creek WMB

Author: John Christy

Date: 28 May 2010

Transect: T5N

Plot type: herbaceous	2010			
	Freq	Percent cover		
		Ave	Min	Max
Deschampsia elongata	100	16	5	40
Deschampsia caespitosa	100	9	3	25
Hordeum brachyantherum	75	20	0	75
Bare/ Litter	75	9	0	35
Parentucellia viscosa	75	2	0	5
Myosotis discolor	75	1	0	5
Medicago lupulina	50	7	0	35
Anthoxanthum odoratum	50	2	0	5
Cerastium glomeratum	50	1	0	4
Montia linearis	50	1	0	4
Lotus corniculatus	50	1	0	3
Triteleia hyacinthina	25	1	0	3
Vicia hirsuta	25	1	0	3
Moss	25	0	0	2
Plectritis congesta	25	0	0	2
Ranunculus occidentalis	25	0	0	2
Camassia quamash	25	0	0	1
Epilobium paniculatum	25	0	0	1
Agrostis stolonifera	0	0	0	0
Epilobium ciliatum ssp. watsonii	0	0	0	0
Epilobium densiflorum	0	0	0	0
Fraxinus latifolia (seedling)	0	0	0	0
Geum macrophyllum	0	0	0	0
Holcus lanatus	0	0	0	0
Hypochaeris radicata	0	0	0	0
Juncus bufonius	0	0	0	0
Plagiobothrys figuratus	0	0	0	0
Plagiobothrys scouleri	0	0	0	0
Poa trivialis	0	0	0	0
Rumex acetosella	0	0	0	0
Sonchus asper	0	0	0	0
Trifolium repens	0	0	0	0
Veronica peregrina	0	0	0	0
Vicia sativa	0	0	0	0

Site: Foster Creek WMB

Author: John Christy

Date: 6-5-09

Transect: T5S

Plot type: herbaceous	Freq	2009		
		Ave	Min	Max
Camassia quamash	100	5	1	10
Bare/ Litter	100	4	1	20
Moss	100	4	1	15
Lotus corniculatus	100	3	0.1	8
Epilobium densiflorum	88	8	0	25
Montia linearis	88	6	0	15
Juncus bufonius	75	23	0	70
Hypochaeris radicata	75	15	0	50
Myosotis discolor	63	21	0	75
Deschampsia elongata	63	3	0	15
Triteleia hyacinthina	63	1	0	2
Epilobium paniculatum	50	1	0	3
Parentucellia viscosa	50	1	0	3
Agrostis stolonifera	38	1	0	4
Plagiobothrys scouleri	38	1	0	2
Rumex acetosella	38	1	0	2
Senecio vulgaris	38	1	0	2
Epilobium ciliatum ssp. watsonii	38	0	0	1
Holcus lanatus	25	1	0	5
Plagiobothrys figuratus	25	1	0	5
Grindelia integrifolia	25	1	0	4
Hordeum brachyantherum	25	1	0	2
Medicago lupulina	25	0	0	1
Potentilla sp. (seedling)	25	0	0	1
Ranunculus repens	25	0	0	1
Leucanthemum vulgare	25	0	0	0.1
Rorippa curvisiliqua	13	0	0	2
Veronica arvensis	13	0	0	2
Anthoxanthum odoratum	13	0	0	1
Cerastium glomeratum	13	0	0	1
Fraxinus latifolia (seedling)	13	0	0	1
Gnaphalium palustre	13	0	0	1
Lupinus sp. (seedling)	13	0	0	1
Matricaria recutita	13	0	0	1
Sidalcea (seedling)	13	0	0	1
Trifolium repens	13	0	0	1

Site: Foster Creek WMB

Author: John Christy

Date: 27/28 May 2010

Transect: T5S

Plot type: herbaceous	Freq	2010		
		Ave	Min	Max
Deschampsia elongata	100	16	2	40
Bare/ Litter	100	11	2	30
Deschampsia caespitosa	88	15	0	40
Camassia quamash	88	9	0	35
Montia linearis	88	4	0	10
Moss	75	6	0	15
Holcus lanatus	63	11	0	45
Myosotis discolor	63	11	0	35
Lotus corniculatus	63	1	0	4
Parentucellia viscosa	63	1	0	1
Triteleia hyacinthina	50	1	0	2
Agrostis stolonifera	38	7	0	35
Agrostis exarata	38	3	0	10
Senecio vulgaris	38	1	0	2
Hordeum brachyantherum	25	7	0	40
Cerastium glomeratum	25	1	0	4
Juncus bufonius	25	1	0	3
Epilobium ciliatum ssp. watsonii	25	0	0	1
Vicia hirsuta	13	1	0	5
Lupinus sp. (seedling)	13	0	0	2
Hypochaeris radicata	13	0	0	1
Rumex acetosella	13	0	0	1
Fraxinus latifolia (seedling)	13	0	0	0.01
Leucanthemum vulgare	13	0	0	0.01
Sidalcea (seedling)	13	0	0	0.01
Anthoxanthum odoratum	0	0	0	0
Epilobium densiflorum	0	0	0	0
Epilobium paniculatum	0	0	0	0
Gnaphalium palustre	0	0	0	0
Grindelia integrifolia	0	0	0	0
Matricaria recutita	0	0	0	0
Medicago lupulina	0	0	0	0
Plagiobothrys figuratus	0	0	0	0
Plagiobothrys scouleri	0	0	0	0
Potentilla sp. (seedling)	0	0	0	0
Ranunculus repens	0	0	0	0
Rorippa curvisiliqua	0	0	0	0
Trifolium repens	0	0	0	0
Veronica arvensis	0	0	0	0

Site: Foster Creek WMB

Author: John Christy

Date: 6-5-09

Transect: T6S

Plot type: herbaceous	Freq	2009		
		Ave	Min	Max
Bare/ Litter	100	7	1	25
Myosotis discolor	88	39	0	75
Parentucellia viscosa	88	3	0	6
Juncus bufonius	75	10	0	50
Camassia quamash	75	3	0	5
Moss	75	2	0	5
Hypochaeris radicata	75	2	0	4
Epilobium densiflorum	63	5	0	20
Triteleia hyacinthina	63	2	0	3
Lotus corniculatus	63	1	0	4
Montia linearis	50	3	0	15
Senecio vulgaris	38	1	0	5
Deschampsia elongata	38	1	0	2
Leucanthemum vulgare	38	1	0	2
Poa trivialis	25	11	0	60
Plagiobothrys scouleri	25	1	0	8
Gnaphalium palustre	25	1	0	5
Rorippa curvisiliqua	25	1	0	5
Agrostis stolonifera	25	1	0	2
Rumex crispus	25	1	0	3
Trifolium pratense	25	1	0	3
Ranunculus repens	25	0	0	2
Rumex acetosella	25	0	0	2
Agrostis exarata	25	0	0	1
Hordeum brachyantherum	25	0	0	1
Veronica peregrina	25	0	0	1
Lythrum portula	13	8	0	60
Grindelia integrifolia	13	1	0	5
Epilobium ciliatum ssp. watsonii	13	1	0	4
Holcus lanatus	13	1	0	4
Eleocharis ovata	13	0	0	2
Medicago lupulina	13	0	0	2
Plagiobothrys figuratus	13	0	0	2
Cerastium glomeratum	13	0	0	1
Deschampsia caespitosa	13	0	0	1
Epilobium paniculatum	13	0	0	1
Matricaria recutita	13	0	0	1
Unknown grass (leaves only)	13	0	0	1
Anthoxanthum odoratum	13	0	0	0.1

Site: Foster Creek WMB

Author: John Christy

Date: 28 May 2010

Transect: T6S

Plot type: herbaceous	Freq	2010		
		Ave	Min	Max
Bare/ Litter	88	19	0	40
Moss	88	3	0	10
Deschampsia elongata	75	16	0	40
Myosotis discolor	75	11	0	35
Parentucellia viscosa	75	5	0	15
Agrostis exarata	75	3	0	5
Deschampsia caespitosa	63	5	0	15
Camassia quamash	63	4	0	15
Montia linearis	63	4	0	20
Poa trivialis	50	12	0	50
Hordeum brachyantherum	50	7	0	40
Anthoxanthum odoratum	50	1	0	4
Lotus corniculatus	50	0	0	1
Epilobium ciliatum ssp. watsonii	50	0	0	1
Holcus lanatus	38	1	0	4
Hypochaeris radicata	38	1	0	2
Lythrum portula	25	6	0	50
Triteleia hyacinthina	25	2	0	10
Senecio vulgaris	25	1	0	4
Rumex acetosella	25	0	0	2
Ranunculus repens	25	0	0	1
Alopecurus geniculatus	13	1	0	10
Plagiobothrys figuratus	13	1	0	6
Glyceria occidentalis	13	1	0	5
Geranium dissectum	13	0	0	3
Cerastium fontanum ssp. vulgare	13	0	0	2
Cerastium glomeratum	13	0	0	2
Epilobium densiflorum	13	0	0	2
Juncus bufonius	13	0	0	2
Medicago lupulina	13	0	0	2
Phalaris arundinacea	13	0	0	2
Polygonum hydropiper	13	0	0	2
Cardamine occidentalis	13	0	0	1
Epilobium paniculatum	13	0	0	1
Plagiobothrys scouleri	13	0	0	1
Ranunculus occidentalis	13	0	0	1
Agrostis stolonifera	0	0	0	0
Eleocharis ovata	0	0	0	0
Gnaphalium palustre	0	0	0	0
Grindelia integrifolia	0	0	0	0
Leucanthemum vulgare	0	0	0	0
Matricaria recutita	0	0	0	0
Rorippa curvisiliqua	0	0	0	0
Rumex crispus	0	0	0	0
Trifolium pratense	0	0	0	0

Unknown grass (leaves only)	0	0	0	0
Veronica peregrina	0	0	0	0

Site: Foster Creek WMB

Author: John Christy

Date: 6-5-09, 6-7-09

Transect: T7S

Plot type: herbaceous	2009			
	Freq	Percent cover		
		Ave	Min	Max
Lotus corniculatus	88	23	0	65
Moss	63	19	0	55
Hypochaeris radicata	50	9	0	35
Deschampsia elongata	50	6	0	15
Parentucellia viscosa	50	5	0	35
Hordeum brachyantherum	50	4	0	25
Holcus lanatus	50	3	0	10
Anthoxanthum odoratum	50	2	0	6
Bare/ Litter	38	9	0	70
Epilobium densiflorum	38	3	0	10
Juncus bufonius	38	2	0	15
Epilobium ciliatum ssp. watsonii	25	3	0	20
Epilobium paniculatum	25	1	0	4
Plagiobothrys figuratus	25	1	0	4
Trifolium pratense	25	1	0	5
Agrostis exarata	25	1	0	3
Agrostis stolonifera	25	1	0	3
Plagiobothrys scouleri	25	1	0	3
Solidago canadensis	25	0	0	1
Veronica peregrina	25	0	0	1
Vicia hirsuta	25	0	0	1
Agrostis cf. exarata	13	3	0	25
Lythrum portula	13	3	0	20
Eleocharis acicularis	13	1	0	5
Poa trivialis	13	1	0	5
Cerastium glomeratum	13	0	0	2
Trifolium hybridum	13	0	0	2
Trifolium repens	13	0	0	2
Gratiola ebracteata	13	0	0	1
Lupinus sp. (seedling)	13	0	0	1
Medicago lupulina	13	0	0	1
Montia linearis	13	0	0	1
Rorippa curvisiliqua	13	0	0	1

Site: Foster Creek WMB

Author: John Christy

Date: 28 May 2010

Transect: T7S

Plot type: herbaceous	2010			
	Freq	Percent cover		
		Ave	Min	Max
Moss	88	10	0	35
Deschampsia caespitosa	75	12	0	35
Lotus corniculatus	63	15	0	50
Parentucellia viscosa	63	6	0	35
Holcus lanatus	63	3	0	15
Deschampsia elongata	50	26	0	70
Anthoxanthum odoratum	50	11	0	30
Bare/ Litter	50	9	0	25
Hordeum brachyantherum	50	8	0	45
Hypochaeris radicata	50	1	0	2
Myosotis discolor	38	1	0	4
Poa trivialis	38	1	0	5
Vicia hirsuta	25	1	0	3
Agrostis stolonifera	13	1	0	5
Montia linearis	13	0	0	3
Trifolium pratense	13	0	0	3
Cerastium glomeratum	13	0	0	2
Juncus bufonius	13	0	0	2
Epilobium ciliatum ssp. watsonii	13	0	0	1
Leucanthemum vulgare	13	0	0	1
Medicago lupulina	13	0	0	1
Plagiobothrys scouleri	13	0	0	1
Poa annua	13	0	0	1
Vicia sativa	13	0	0	1
Agrostis exarata	0	0	0	0
Eleocharis acicularis	0	0	0	0
Epilobium densiflorum	0	0	0	0
Epilobium paniculatum	0	0	0	0
Gratiola ebracteata	0	0	0	0
Lupinus sp. (seedling)	0	0	0	0
Lythrum portula	0	0	0	0
Plagiobothrys figuratus	0	0	0	0
Rorippa curvisiliqua	0	0	0	0
Solidago canadensis	0	0	0	0
Trifolium hybridum	0	0	0	0
Trifolium repens	0	0	0	0
Veronica peregrina	0	0	0	0

Site: Foster Creek WMB
 Author: John Christy
 Date: 6-7-09
 Transect: T8S

Plot type: herbaceous	2009			
	Freq	Percent cover		
		Ave	Min	Max
Lotus corniculatus	88	18	0	40
Hordeum brachyantherum	88	18	0	60
Parentucellia viscosa	88	9	0	25
Deschampsia elongata	75	7	0	25
Agrostis cf. exarata	75	7	0	20
Leucanthemum vulgare	75	3	0	10
Anthoxanthum odoratum	63	10	0	50
Bare/ Litter	63	10	0	35
Deschampsia caespitosa	63	2	0	4
Hypochaeris radicata	63	1	0	2
Holcus lanatus	50	10	0	60
Moss	50	8	0	35
Trifolium pratense	50	3	0	15
Vicia hirsuta	38	0	0	1
Vulpia bromoides	25	1	0	5
Rumex acetosella	25	1	0	3
Poa trivialis	13	0	0	3
Vicia sativa	13	0	0	1

Site: Foster Creek WMB
 Author: John Christy
 Date: 28 May 2010
 Transect: T8S

Plot type: herbaceous	2010			
	Freq	Percent cover		
		Ave	Min	Max
Lotus corniculatus	100	23	3	35
Deschampsia caespitosa	75	18	0	55
Anthoxanthum odoratum	75	10	0	30
Moss	75	7	0	30
Hypochaeris radicata	75	2	0	5
Hordeum brachyantherum	63	17	0	50
Holcus lanatus	63	8	0	50
Leucanthemum vulgare	63	2	0	4
Parentucellia viscosa	63	1	0	4
Bare/ Litter	50	12	0	55
Rumex acetosella	25	1	0	3
Trifolium repens	25	1	0	3
Myosotis discolor	25	0	0	2
Vicia hirsuta	25	0	0	2
Montia linearis	13	0	0	3
Poa trivialis	13	0	0	2
Trifolium pratense	13	0	0	1
Agrostis exarata	0	0	0	0
Deschampsia elongata	0	0	0	0
Vicia sativa	0	0	0	0
Vulpia bromoides	0	0	0	0

Site: Foster Creek WMB
 Author: John Christy
 Date: 6-5-09, 6-7,-09
 Transect: n/a

Plot type: Upland Plots	2009			
	Freq	Percent cover		
		Ave	Min	Max
Myosotis discolor	100	36	30	40
Lotus corniculatus	100	3	1	5
Vicia sativa	75	3	0	5
Hypochaeris radicata	75	2	0	4
Parentucellia viscosa	75	1	0	2
Cerastium glomeratum	50	19	0	60
Bare/ Litter	50	13	0	35
Moss	50	5	0	20
Senecio vulgaris	50	2	0	6
Leucanthemum vulgare	50	2	0	3
Anthoxanthum odoratum	50	1	0	4
Epilobium densiflorum	50	1	0	2
Geranium dissectum	50	1	0	2
Juncus bufonius	50	1	0	2
Vicia hirsuta	25	10	0	40
Cardamine occidentalis	25	6	0	25
Medicago lupulina	25	2	0	6
Grindelia integrifolia	25	1	0	3
Hordeum brachyantherum	25	1	0	3
Vulpia bromoides	25	1	0	3
Dichelostemma congestum	25	1	0	2
Montia linearis	25	1	0	2
Sidalcea (seedling)	25	1	0	2
Carex sp. (seedling)	25	0	0	1
Epilobium paniculatum	25	0	0	1
Fraxinus latifolia (seedling)	25	0	0	1
Rumex acetosella	25	0	0	1
Veronica arvensis	25	0	0	1

Site: Foster Creek WMB
 Author: John Christy
 Date: 27/28 May 2010
 Transect: n/a

Plot type: Upland Plots	2010			
	Freq	Percent cover		
		Ave	Min	Max
Myosotis discolor	100	25	5	40
Geranium dissectum	100	19	4	45
Bare/ Litter	100	11	5	15
Leucanthemum vulgare	100	1	0.01	1
Moss	75	13	0	45
Hordeum brachyantherum	75	7	0	25
Deschampsia elongata	75	7	0	20
Parentucellia viscosa	75	4	0	10
Veronica arvensis	75	3	0	10
Vicia hirsuta	75	2	0	5
Senecio vulgaris	50	8	0	20
Anthoxanthum odoratum	50	3	0	10
Holcus lanatus	50	1	0	3
Camassia quamash	50	1	0	3
Hypochaeris radicata	50	1	0	2
Vulpia bromoides	25	4	0	15
Agrostis stolonifera	25	1	0	5
Cerastium glomeratum	25	1	0	4
Lotus corniculatus	25	1	0	3
Montia linearis	25	1	0	3
Poa trivialis	25	1	0	3
Lupinus sp. (seedling)	25	1	0	2
Medicago lupulina	25	1	0	2
Sidalcea (seedling)	25	0	0	1
Daucus carota (? , seedling)	25	0	0	0.01
Potentilla sp. (seedling)	25	0	0	0.01
Cardamine occidentalis	0	0	0	0
Carex sp. (seedling)	0	0	0	0
Dichelostemma congestum	0	0	0	0
Epilobium densiflorum	0	0	0	0
Epilobium paniculatum	0	0	0	0
Fraxinus latifolia (seedling)	0	0	0	0
Grindelia integrifolia	0	0	0	0
Juncus bufonius	0	0	0	0
Rumex acetosella	0	0	0	0
Vicia sativa	0	0	0	0