

Appendix I. Tables of canopy cover in vegetation plots.

Table I-1. Absolute canopy cover (and relative canopy cover) for each species in plots of the Picea engelmannii/Galium triflorum community and the Picea pungens series. Relative canopy cover for species A in a plot = (cover of species A in the plot/cover of all species in the plot).

SPECIES	Plots					
	P. engelmannii			P. pungens		
	2 1 3	2 2 1	3 1 1	5 1 1	5 2 1	
TREES						
<i>Abies lasiocarpa</i>	20 (15)	40 (30)	3 (3)		3 (2)	
<i>Picea engelmannii</i>	30 (22)	30 (23)	40 (34)			
<i>Picea pungens</i>				20 (16)	40 (21)	
<i>Pinus contorta</i>			3 (3)	30 (23)	30 (16)	
<i>Populus angustifolia</i>						
<i>Populus tremuloides</i>						
TALL SHRUBS AND SAPLINGS						
<i>Alnus incana</i>				3 (2)	20 (10)	
<i>Amelanchier alnifolia</i>						
<i>Betula occidentalis</i>						
<i>Populus angustifolia</i> sapling						
<i>Populus tremuloides</i> sapling						
<i>Salix bebbiana</i>				10 (8)		
<i>Salix boothii</i>					3 (2)	
<i>Salix exigua</i>						
<i>Salix geyeriana</i>					10 (5)	
<i>Salix lasiandra</i>				10 (8)		
<i>Salix</i> spp.						
MEDIUM SHRUBS						
<i>Artemisia cana</i>						
<i>Artemisia tridentata</i>						
<i>Chrysothamnus nauseosus</i>						
<i>Chrysothamnus parryi</i>						
<i>Cornus sericea</i>						
<i>Juniperus communis</i>				1 (1)	1 (1)	
<i>Lonicera involucrata</i>	3 (2)		1 (1)		3 (2)	
<i>Potentilla fruticosa</i>				3 (2)	3 (2)	
<i>Ribes inerme</i>						
<i>Ribes oxycanthoides</i>		3 (2)		1 (1)		
<i>Ribes</i> sp.						
<i>Rosa woodsii</i>			1 (1)	1 (1)	3 (2)	
<i>Rubus idaeus</i>						
<i>Salix planifolia</i>	3 (2)					
<i>Salix wolfii</i>						
<i>Shepherdia canadensis</i>					3 (2)	
<i>Symphoricarpos occidentalis</i>						
<i>Symphoricarpos oreophilus</i>						
LOW SHRUBS AND SEEDLINGS						
<i>Arctostaphylos uva-ursi</i>					1 (1)	
<i>Mahonia repens</i>						
<i>Picea engelmannii</i> seedling						
<i>Populus angustifolia</i> seedling						
<i>Vaccinium scoparium</i>	10 (7)	10 (8)	10 (9)			
GRAMINOIDS						
<i>Agropyron</i> spp.						
<i>Agropyron subsecundum</i>						

SPECIES	Plots				
	P. engelmannii			P. pungens	
	2 1 3	2 2 1	3 1 1	5 1 1	5 2 1
Antennaria umbrinella			1 (1)		
Arnica chamissonis			1 (1)	1 (1)	
Arnica mollis					
Artemisia ludoviciana					
Aster adscendens					
Aster foliaceus					
Aster occidentalis			1 (1)		
Astragalus alpinus				1 (1)	1 (1)
Caltha leptosepala	10 (7)	3 (2)			
Campanula rotundifolia			1 (1)		1 (1)
Caradmine breweri					
Cerastium arvense		1 (1)			
Cerastium fontanum					
Cerastium nutans					
Cirsium arvense*					
Cirsium spp.					
Cirsium vulgare*					
Conioselinum scopulorum	1 (1)		1 (1)	1 (1)	1 (1)
Descurainia incana					
Dodecatheon pulchellum				3 (2)	
Epilobium angustifolium	1 (1)	1 (1)	1 (1)	1 (1)	
Epilobium brachycarpum					
Epilobium ciliatum			1 (1)		
Equisetum arvense					
Equisetum laevigatum	3 (2)	3 (2)	1 (1)	1 (1)	10 (5)
Equisetum sp.					1 (1)
Erigeron glabellus					
Erigeron speciosus	3 (2)	3 (2)			
Erigeron ursinus					
Fragaria virginiana					
Frasera speciosa			1 (1)	1 (1)	10 (5)
Galium aparine					
Galium boreale			1 (1)		1 (1)
Galium trifidum	1 (1)	1 (1)			
Geranium richardsonii			1 (1)	3 (2)	3 (2)
Geum aleppicum	1 (1)			3 (2)	1 (1)
Geum macrophyllum					
Heracleum sphondylium					1 (1)
Hypericum formosum					
Ligusticum porteri					
Ligusticum tenuifolium					
Lupinus argenteus			10 (9)		
Maianthemum stellatum	3 (2)			3 (2)	3 (2)
Medicago lupulina*					
Mentha arvensis					
Mertensia ciliata & M. arizonica					
Mitella pentandra		3 (2)	3 (3)		
Orthilia secunda		10 (8)	1 (1)		10 (5)
Osmorhiza spp.	1 (1)		1 (1)	3 (2)	10 (5)
Oxypolis fendleri	3 (2)		3 (3)		
Pedicularis groenlandica					
Perideridia montana					
Plantago major*					
Polygonum bistortoides					
Polygonum douglasii					
Polygonum viviparum				1 (1)	

SPECIES	Plots					
	P. engelmannii			■	P. pungens	
	2 1 3	2 2 1	3 1 1		5 1 1	5 2 1
Potentilla anserina						
Potentilla diversifolia						
Potentilla gracilis					1 (1)	
Prunella vulgaris			1 (1)			
Ranunculus spp.			1 (1)			
Rudbeckia laciniata						
Rumex crispus*						
Saxifraga odontoloma		3 (2)	1 (1)			
Senecio eremophilus						
Senecio triangularis	3 (2)	3 (2)	3 (3)		3 (2)	
Sidalcea neomexicana						
Solidago canadensis						
Solidago gigantea						
Solidago multiradiata						
Stellaria borealis						
Taraxacum officinale*	3 (2)	1 (1)	1 (1)		3 (2)	3 (2)
Thalictrum fendleri						
Thalictrum sparsiflorum						
Thalspi arvense*						
Tragopogon dubius*						
Trifolium longipes						1 (1)
Trifolium pratense*					1 (1)	
Trifolium repens*						
Trollius laxus		1 (1)				
Urtica dioica						
Veronica wormskjoldii						
Veronica serpyllifolia						
Vicia americana						
Viola sp.		3 (2)				
Total tree cover	50	60	40		40	70
Total shrub cover	10	3	12		30	40
Tall			1		23	30
Medium	10	3	1		5	10
Low			10			1
Total graminoid cover	40	15	15		10	15
Total forb cover	35	35	40		30	25
Ground cover						
Bare soil	3	3	40		1	1
Gravel					1	
Rock		3	3		1	
Litter	80	30	40		90	80
Wood	3	10	3		1	1
Moss	3	50	1	■	1	1

* Exotic species

Table I-2. Absolute canopy cover (and relative canopy cover) for each species in plots of the Populus angustifolia/Poa pratensis community. Relative canopy cover for species A in a plot = (cover of species A in the plot/cover of all species in the plot).

SPECIES	Plots					
	1 2 1	1 3 2	1 4 1	1 7 1	4 2 2	4 5 1
TREES						
<i>Abies lasiocarpa</i>						
<i>Picea engelmannii</i>						
<i>Picea pungens</i>	30 (21)				1 (1)	
<i>Pinus contorta</i>						
<i>Populus angustifolia</i>	60 (42)	40 (19)	98 (50)	80 (41)	70 (36)	40 (14)
<i>Populus tremuloides</i>						
TALL SHRUBS AND SAPLINGS						
<i>Alnus incana</i>		3 (2)		1 (1)	1 (1)	
<i>Amelanchier alnifolia</i>	1 (1)				1 (1)	
<i>Betula occidentalis</i>						
<i>Populus angustifolia</i> sapling						
<i>Populus tremuloides</i> sapling						
<i>Salix bebbiana</i>						
<i>Salix boothii</i>		20 (9)				
<i>Salix exigua</i>		1 (1)				
<i>Salix geyeriana</i>						
<i>Salix lasiandra</i>						
<i>Salix</i> spp.						
MEDIUM SHRUBS						
<i>Artemisia cana</i>			3 (2)		1 (1)	1 (0.4)
<i>Artemisia tridentata</i>	2					
<i>Chrysothamnus nauseosus</i>					1 (1)	
<i>Chrysothamnus parryi</i>			1 (1)			
<i>Cornus sericea</i>						
<i>Juniperus communis</i>	10 (7)			1 (1)		
<i>Lonicera involucrata</i>	3 (2)					
<i>Potentilla fruticosa</i>			1 (1)			
<i>Ribes inerme</i>	1 (1)				1 (1)	
<i>Ribes oxycanthoides</i>						
<i>Ribes</i> sp.						
<i>Rosa woodsii</i>	1 (1)		1 (1)			
<i>Rubus idaeus</i>	1 (1)					
<i>Salix planifolia</i>						
<i>Salix wolfii</i>						
<i>Shepherdia canadensis</i>						
<i>Symphoricarpos occidentalis</i>	1 (1)				1 (1)	1 (0.4)
<i>Symphoricarpos oreophilus</i>			1 (1)			
LOW SHRUBS AND SEEDLINGS						
<i>Arctostaphylos uva-ursi</i>						
<i>Mahonia repens</i>						
<i>Picea engelmannii</i> seedling						
<i>Populus angustifolia</i> seedling		3 (2)				3 (1)
<i>Vaccinium scoparium</i>						
GRAMINOIDS						
<i>Agropyron</i> spp.						
<i>Agropyron subsecundum</i>				10 (5)	1 (1)	1 (0.4)

SPECIES	Plots					
	1	1	1	1	4	4
	2	3	4	7	2	5
	1	2	1	1	2	1
Agropyron trachycaulum		3 (2)	3 (2)			
Agrostis exarata					3 (2)	
Agrostis scabra	1 (1)	10 (5)				1
Bromus anomalus			3 (2)	3 (2)	10 (5)	3 (1)
Bromus ciliatus						
Bromus sp.	1 (1)					
Calamagrostis canadensis						
Carex aquatilis						
Carex aurea		3 (2)				
Carex athrostachya						
Carex gynocrates						
Carex lanuginosa						
Carex microptera		10 (5)				
Carex pennsylvanica						
Carex rostrata						
Carex spp.	1 (1)	3 (2)	3 (2)	10 (5)	10 (5)	1 (0.4)
Danthonia intermedia						
Deschampsia caespitosa						1
Eleocharis palustris		3 (2)				
Elymus glaucus						
Elymus x macounii	1 (1)		1 (1)		3 (2)	3 (1)
Elymus sp.						
Festuca idahoensis			1 (1)			
Festuca saximontana						
Glyceria striata				1 (1)	3 (2)	
Hordeum brachyantherum						
Juncus balticus	1 (1)	30 (14)	1 (1)			
Juncus halleyi & J. traceyi						
Juncus longistylus & J. ensifolius		1 (1)				
Juncus mertensianus						
Juncus sp.		1 (1)				
Koeleria macrantha						
Muhlenbergia richardsonis						
Phleum alpinum						
Phleum pratense*		1 (1)		3 (2)		
Phleum sp.						
Poa interior						
Poa juncifolia			10 (5)	1 (1)		
Poa palustris*	1 (1)					
Poa pratensis*	1 (1)	40 (19)	50 (26)	70 (36)	40 (20)	20 (7)
Poa sp.						
Stipa lettermanii						
Stipa nelsonii						
Trisetum spicatum						
Trisetum wolfii						
FORBS						
Achillea millefolium	1 (1)	3 (2)	1 (1)	1 (1)	3 (2)	
Aconitum columbianum						1 (0.4)
Actaea rubra						
Agoseris glauca						
Allium spp.	1 (1)				1 (1)	
Anaphalis margaritacea	1 (1)					
Androsace filiformis						
Androsace septentrionalis				1 (1)		
Antennaria microphylla						
Antennaria umbrinella						

SPECIES	Plots					
	1 2 1	1 3 2	1 4 1	1 7 1	4 2 2	4 5 1
<i>Arnica chamissonis</i>						
<i>Arnica mollis</i>						3 (1)
<i>Artemisia ludoviciana</i>			1 (1)			
<i>Aster adscendens</i>					1 (1)	
<i>Aster foliaceus</i>						
<i>Aster occidentalis</i>						
<i>Astragalus alpinus</i>						
<i>Caltha leptosepala</i>						
<i>Campanula rotundifolia</i>						
<i>Caradmine breweri</i>						
<i>Cerastium arvense</i>						
<i>Cerastium fontanum</i>						
<i>Cerastium nutans</i>						
<i>Cirsium arvense*</i>			1 (1)	3 (2)	4 (2)	
<i>Cirsium spp.</i>						1 (0.4)
<i>Cirsium vulgare*</i>						
<i>Conioselinum scopulorum</i>						
<i>Descurainia incana</i>						
<i>Dodecatheon pulchellum</i>						
<i>Epilobium angustifolium</i>						
<i>Epilobium brachycarpum</i>						
<i>Epilobium ciliatum</i>						
<i>Equisetum arvense</i>						
<i>Equisetum laevigatum</i>		1 (1)	2	1 (1)		
<i>Equisetum sp.</i>						
<i>Erigeron glabellus</i>		10 (5)				
<i>Erigeron speciosus</i>	1				1 (1)	
<i>Erigeron ursinus</i>						
<i>Fragaria virginiana</i>						
<i>Frasera speciosa</i>	3 (2)					
<i>Galium aparine</i>	1 (1)					
<i>Galium boreale</i>	3 (2)	1 (1)				
<i>Galium trifidum</i>				1		
<i>Geranium richardsonii</i>	1 (1)			3 (2)		10 (3)
<i>Geum aleppicum</i>	1 (1)				1 (1)	
<i>Geum macrophyllum</i>						
<i>Heracleum sphondylium</i>	1 (1)					
<i>Hypericum formosum</i>					1 (1)	
<i>Ligusticum porteri</i>	1 (1)					
<i>Ligusticum tenuifolium</i>						
<i>Lupinus argenteus</i>						
<i>Maianthemum stellatum</i>			1 (1)	1 (1)	3 (2)	1 (0.4)
<i>Medicago lupulina*</i>						
<i>Mentha arvensis</i>						
<i>Mertensia ciliata & M. arizonica</i>	1 (1)					
<i>Mitella pentandra</i>						
<i>Orthilia secunda</i>	1					
<i>Osmorhiza spp.</i>	3 (2)				10 (5)	3 (1)
<i>Oxypolis fendleri</i>						
<i>Pedicularis groenlandica</i>						
<i>Perideridia montana</i>						
<i>Plantago major*</i>						
<i>Polygonum bistortoides</i>						
<i>Polygonum douglasii</i>	1 (1)		1 (1)			
<i>Polygonum viviparum</i>						
<i>Potentilla anserina</i>						
<i>Potentilla diversifolia</i>						

SPECIES	Plots					
	1 2 1	1 3 2	1 4 1	1 7 1	4 2 2	4 5 1
Potentilla gracilis	1 (1)	2 (1)			1 (1)	1 (0.4)
Prunella vulgaris		3 (2)				
Ranunculus spp.						
Rudbeckia laciniata	1 (1)					
Rumex crispus*						
Saxifraga odontoloma						
Senecio eremophilus						
Senecio triangularis						
Sidalcea neomexicana		1 (1)				1 (0.4)
Solidago canadensis						
Solidago gigantea						
Solidago multiradiata						
Stellaria borealis						
Taraxacum officinale*	3 (2)	10 (5)	3 (2)	3 (2)	20 (10)	20 (7)
Thalictrum fendleri	1 (1)					
Thalictrum sparsiflorum						
Thalspi arvense*			1 (1)			
Tragopogon dubius*						
Trifolium longipes						
Trifolium pratense*						20 (7)
Trifolium repens*		1 (1)			3 (2)	
Trollius laxus						
Urtica dioica				1 (1)		
Veronica wormskjoldii						
Veronica serpyllifolia						
Vicia americana	1 (1)	1 (1)			1 (1)	10 (3)
Viola sp.	1 (1)	3 (2)				
Total tree cover	80	40	98	80	70	40
Total shrub cover	10	20	7	5	5	5
Tall	3	20	7	1	2	2
Medium	16			1	4	3
Low		3		3		
Total graminoid cover	3	90	50	80	50	20
Total forb cover	20	30	10	10	40	40
Ground cover						
Bare soil	1	1	3	3	1	1
Gravel		1	1		1	1
Rock		1	1		1	1
Litter	80	85	90	90	85	85
Wood	20	1	10	3	10	10
Moss	1	1	1	1	1	

* Exotic species

Table I-3. Absolute canopy cover (and relative canopy cover) for each species in plots of the Populus angustifolia Recent Alluvial Bar vegetation type. Relative canopy cover for species A in a plot = (cover of species A in the plot/cover of all species in the plot).

SPECIES	Plots		
	4 1 3	4 3 1	1 5 1
TREES			
<i>Abies lasiocarpa</i>			
<i>Picea engelmannii</i>			
<i>Picea pungens</i>			
<i>Pinus contorta</i>			
<i>Populus angustifolia</i>			
<i>Populus tremuloides</i>			
TALL SHRUBS AND SAPLINGS			
<i>Alnus incana</i>		1 (1)	1 (1)
<i>Amelanchier alnifolia</i>			
<i>Betula occidentalis</i>			
<i>Populus angustifolia</i> sapling			40 (27)
<i>Populus tremuloides</i> sapling			
<i>Salix bebbiana</i>			
<i>Salix boothii</i>			1 (1)
<i>Salix exigua</i>			1 (1)
<i>Salix geyeriana</i>			
<i>Salix lasiandra</i>			
<i>Salix</i> spp.	1 (1)		
MEDIUM SHRUBS			
<i>Artemisia cana</i>		1 (1)	
<i>Artemisia tridentata</i>	1 (1)	1 (1)	
<i>Chrysothamnus nauseosus</i>		1 (1)	
<i>Chrysothamnus parryi</i>			
<i>Cornus sericea</i>			1 (1)
<i>Juniperus communis</i>			
<i>Lonicera involucrata</i>			
<i>Potentilla fruticosa</i>			
<i>Ribes inerme</i>			
<i>Ribes oxycanthoides</i>			
<i>Ribes</i> sp.			
<i>Rosa woodsii</i>	1 (1)		
<i>Rubus idaeus</i>			
<i>Salix planifolia</i>			
<i>Salix wolfii</i>			
<i>Shepherdia canadensis</i>			
<i>Symphoricarpos occidentalis</i>			
<i>Symphoricarpos oreophilus</i>			
LOW SHRUBS AND SEEDLINGS			
<i>Arctostaphylos uva-ursi</i>			
<i>Mahonia repens</i>			
<i>Picea engelmannii</i> seedling			
<i>Populus angustifolia</i> seedling	10 (13)	20 (27)	3 (2)
<i>Vaccinium scoparium</i>			
GRAMINOIDS			
<i>Agropyron</i> spp.			
<i>Agropyron subsecundum</i>		1 (1)	
<i>Agropyron trachycaulum</i>			

SPECIES	Plots		
	4	4	1
	1	3	5
	3	1	1
Agrostis exarata	3 (4)	10 (14)	
Agrostis scabra			3 (2)
Bromus anomalus			
Bromus ciliatus			
Bromus sp.			
Calamagrostis canadensis			
Carex aquatilis			
Carex aurea			
Carex athrostachya			
Carex gynocrates			3 (2)
Carex lanuginosa			
Carex microptera			
Carex pennsylvanica			
Carex rostrata			
Carex spp.	1 (1)	1 (1)	
Danthonia intermedia			
Deschampsia caespitosa			
Eleocharis palustris			
Elymus glaucus			
Elymus x macounii			3 (2)
Elymus sp.			
Festuca idahoensis			
Festuca saximontana			
Glyceria striata	1 (1)	1 (1)	
Hordeum brachyantherum		1 (1)	
Juncus balticus			
Juncus halleyi & J. traceyi			
Juncus longistylus & J. ensifolius			
Juncus mertensianus			
Juncus sp.			
Koeleria macrantha			
Muhlenbergia richardsonis			
Phleum alpinum			
Phleum pratense*	3 (4)	1 (1)	3 (2)
Phleum sp.			
Poa interior			
Poa juncifolia			
Poa palustris*			10 (7)
Poa pratensis*	3 (4)		20 (14)
Poa sp.			
Stipa lettermanii			
Stipa nelsonii			
Trisetum spicatum			
Trisetum wolfii			
FORBS			
Achillea millefolium	3 (4)	1 (1)	3 (2)
Aconitum columbianum			
Actaea rubra			
Agoseris glauca			
Allium spp.			
Anaphalis margaritacea			
Androsace filiformis			
Androsace septentrionalis			
Antennaria microphylla			
Antennaria umbrinella			

SPECIES	Plots		
	4 1 3	4 3 1	1 5 1
Arnica chamissonis			
Arnica mollis			
Artemisia ludoviciana	1 (1)	1 (1)	
Aster adscendens			
Aster foliaceus			
Aster occidentalis	1 (1)	1 (1)	
Astragalus alpinus			
Caltha leptosepala			
Campanula rotundifolia			
Caradmine breweri			
Cerastium arvense			
Cerastium fontanum			
Cerastium nutans			1 (1)
Cirsium arvense*	1 (1)	1 (1)	
Cirsium spp.			
Cirsium vulgare*		1 (1)	
Conioselinum scopulorum			
Descurainia incana			
Dodecatheon pulchellum			
Epilobium angustifolium			
Epilobium brachycarpum	1 (1)	1 (1)	
Epilobium ciliatum			
Equisetum arvense			1 (1)
Equisetum laevigatum	10 (13)	3 (4)	
Equisetum sp.			
Erigeron glabellus			1 (1)
Erigeron speciosus			
Erigeron ursinus			
Fragaria virginiana			
Frasera speciosa	1 (1)		
Galium aparine			
Galium boreale			
Galium trifidum			
Geranium richardsonii			
Geum aleppicum		1 (1)	1 (1)
Geum macrophyllum			
Heracleum sphondylium			
Hypericum formosum			
Ligusticum porteri			
Ligusticum tenuifolium			
Lupinus argenteus		1 (1)	
Maianthemum stellatum			
Medicago lupulina*	1 (1)	1 (1)	
Mentha arvensis	1 (1)	1 (1)	3 (2)
Mertensia ciliata & M. arizonica			
Mitella pentandra			
Orthilia secunda			
Osmorhiza spp.			1 (1)
Oxypolis fendleri			
Pedicularis groenlandica			
Perideridia montana			
Plantago major*	1 (1)	1 (1)	1 (1)
Polygonum bistortoides			
Polygonum douglasii			
Polygonum viviparum			
Potentilla anserina		3 (4)	
Potentilla diversifolia			

SPECIES	Plots		
	4 1 3	4 3 1	1 5 1
Potentilla gracilis	1 (1)		
Prunella vulgaris	3 (4)	1 (1)	
Ranunculus spp.			
Rudbeckia laciniata	1 (1)	1 (1)	3 (2)
Rumex crispus*	3 (4)	1 (1)	
Saxifraga odontoloma			
Senecio eremophilus			10 (7)
Senecio triangularis			
Sidalcea neomexicana			
Solidago canadensis			
Solidago gigantea	1 (1)		
Solidago multiradiata			
Stellaria borealis			
Taraxacum officinale*	3 (4)	3 (4)	10 (7)
Thalictrum fendleri			
Thalictrum sparsiflorum			
Thaspis arvense*			
Tragopogon dubius*			
Trifolium longipes			
Trifolium pratense*	20 (26)	10 (14)	
Trifolium repens*			20 (14)
Trollius laxus			
Urtica dioica			1 (1)
Veronica wormskjoldii			
Veronica serpyllifolia			
Vicia americana	1 (1)	1 (1)	1 (1)
Viola sp.			
Total tree cover			
Total shrub cover	12	24	40
Tall	1	1	40
Medium	1	3	
Low	10	20	3
Total graminoid cover	11	10	40
Total forb cover	50	30	40
Ground cover			
Bare soil	1	1	30
Gravel	45	75	10
Rock	45	20	10
Litter	3	1	40
Wood	3	3	1
Moss	1		1

* Exotic species

Table I-4. Absolute canopy cover (and relative canopy cover) for each species in plots of the Salix geyeriana/Poa pratensis (Salgey/Poapra) community, the Salix geyeriana/Carex rostrata community (Salgey/Carros), and the unclassified Salix geyeriana stand (Uncl). Relative canopy cover for species A in a plot = (cover of species A in the plot/cover of all species in the plot).

4 plots from 1 large stand. Salgey/NG?

SPECIES	Plots							
	Salgey/NG	Salgey/Carros	Salgey/Poapra	Salgey/Poapra	Salgey/Carros	Salgey/Carros	Uncl	Uncl
	5 3 1	7 3 1	7 2 1	6 1 1	7 4 1	3 3 3	2 3 1	
TREES								
Abies lasiocarpa								
Picea engelmannii								
Picea pungens								
Pinus contorta					30 (17)			
Populus angustifolia								
Populus tremuloides					1 (1)			10 (6)
TALL SHRUBS AND SAPLINGS								
Alnus incana					3 (2)	3 (2)		30 (19)
Amelanchier alnifolia								
Betula occidentalis		3 (2)	3 (2)					
Populus angustifolia sapling								
Populus tremuloides sapling								
Salix bebbiana								
Salix boothii	10 (9)	20 (11)			10 (6)			
Salix exigua								
Salix geyeriana	30 (28)	40 (22)	40 (23)	20 (11)	20 (11)	10 (7)	40 (34)	50 (31)
Salix lasiandra			3 (2)	40 (22)		10 (7)		
Salix spp.								
MEDIUM SHRUBS								
Artemisia cana								
Artemisia tridentata								3 (2)
Chrysothamnus nauseosus								
Chrysothamnus parryi								
Cornus sericea								
Juniperus communis			1 (1)	1 (1)	20 (11)			10 (6)
Lonicera involucrata		10 (5)	1 (1)	1 (1)	10 (6)	1 (1)		1 (1)
Potentilla fruticosa	1 (1)	1 (1)	3 (2)	3 (2)	10 (6)			
Ribes inerme				10 (6)				
Ribes oxycanthoides	1 (1)							

SPECIES	Plots						Salgey// Carros	Uncl
	5 3 1	7 3 1	Salgey/ Poapra 7 2 1	6 1 1	7 4 1	6 3 1		
<i>Androsace filiformis</i>								
<i>Androsace septentrionalis</i>								
<i>Antennaria microphylla</i>		3 (2)	3 (2)	1 (1)				1 (1)
<i>Antennaria umbrinella</i>								
<i>Arnica chamissonis</i>								
<i>Arnica mollis</i>	1 (1)							
<i>Artemisia ludoviciana</i>								
<i>Aster adscendens</i>					3 (2)			10 (6)
<i>Aster foliaceus</i>						3 (2)		
<i>Aster occidentalis</i>							3 (3)	
<i>Astragalus alpinus</i>								
<i>Caltha leptosepala</i>								
<i>Campanula rotundifolia</i>					1 (1)			1 (1)
<i>Caradmine breweri</i>								
<i>Cerastium arvense</i>					1 (1)		1 (1)	
<i>Cerastium fontanum</i>			1					
<i>Cerastium nutans</i>				1 (1)		1 (1)		
<i>Cirsium arvense*</i>							1 (1)	
<i>Cirsium spp.</i>		1 (1)	1 (1)	1 (1)		3 (2)	1 (1)	
<i>Cirsium vulgare*</i>								
<i>Conioselinum scopulorum</i>	1 (1)	3 (2)	3 (2)			3 (2)		
<i>Descurainia incana</i>							1 (1)	
<i>Dodecatheon pulchellum</i>			3 (2)			1 (1)		
<i>Epilobium angustifolium</i>		1 (1)			3 (2)			1 (1)
<i>Epilobium brachycarpum</i>								
<i>Epilobium ciliatum</i>						3 (2)	1 (1)	
<i>Equisetum arvense</i>								
<i>Equisetum laevigatum</i>			1 (1)	3 (2)	3 (2)	3 (2)		
<i>Equisetum sp.</i>								
<i>Erigeron glabellus</i>								
<i>Erigeron speciosus</i>				10 (6)				
<i>Erigeron ursinus</i>								
<i>Fragaria virginiana</i>								
<i>Frasera speciosa</i>	3 (3)	10 (5)	3 (2)	3 (2)	3 (2)	3 (2)	1 (1)	
<i>Galium aparine</i>				1 (1)		1 (1)		
<i>Galium boreale</i>		1 (1)			1 (1)			
<i>Galium trifidum</i>							1 (1)	

SPECIES	Plots						Salgey/ Carros	Uncl
	5	7	Salgey/ Poapra	6	7	6		
	3	3	7	6	7	6	3	2
	1	1	2	1	4	3	3	3
	1	1	1	1	1	1	3	1
Taraxacum officinale*	1 (1)	10 (5)	30 (17)	3 (2)	1 (1)	10 (7)	1 (1)	1 (1)
Thalictrum fendleri								
Thalictrum sparsiflorum	1 (1)	3 (2)	3 (2)	3 (2)				
Thalspi arvense*								
Tragopogon dubius*								
Trifolium longipes		10 (5)						
Trifolium pratense*	1 (1)		40 (23)	3 (2)		10 (7)		
Trifolium repens*								
Trollius laxus								
Urtica dioica		1 (1)						
Veronica wormskjoldii								
Veronica serpyllifolia								
Vicia americana					1 (1)			
Viola sp.								
Total tree cover					30			10
Total shrub cover	30	80	40	80	70	20	50	70
Tall	30	60	40	70	40	20	50	60
Medium	1	20	5	10	30	1		10
Low				3	3			1
Total graminoid cover	40	20	20	40	20	50	50	15
Total forb cover	15	50	80	30	30	40	10	30
Ground cover								
Bare soil	1	1	10	31	3	1	10	10
Gravel				1	1			3
Rock				1	1			10
Litter	80	80	60	40	40	80	70	50
Wood	3	3	3	3	3	3		10
Moss	3	1	10	30	30	1		

* Exotic species

Table I-5. Absolute canopy cover (and relative canopy cover) for each species in plots of the Salix boothii/Poa pratensis community (Salboo/Poapra) and in the unclassified Salix boothii stand (Uncl).
Relative canopy cover for species A in a plot = (cover of species A in the plot/cover of all species in the plot).

SPECIES	Plots			
	1 3 3	Salboo/ Poapra 1 8 1	4 2 1	Uncl 3 3 1
TREES				
<i>Abies lasiocarpa</i>				
<i>Picea engelmannii</i>				
<i>Picea pungens</i>				
<i>Pinus contorta</i>				
<i>Populus angustifolia</i>				
<i>Populus tremuloides</i>				
TALL SHRUBS AND SAPLINGS				
<i>Alnus incana</i>		3 (2)		
<i>Amelanchier alnifolia</i>	1 (0.4)			
<i>Betula occidentalis</i>				
<i>Populus angustifolia</i> sapling				
<i>Populus tremuloides</i> sapling				
<i>Salix bebbiana</i>				
<i>Salix boothii</i>	80 (36)	70 (41)	60 (30)	90 (46)
<i>Salix exigua</i>	10 (4)			
<i>Salix geyeriana</i>				
<i>Salix lasiandra</i>				
<i>Salix</i> spp.		1 (1)		3 (2)
MEDIUM SHRUBS				
<i>Artemisia cana</i>				
<i>Artemisia tridentata</i>				
<i>Chrysothamnus nauseosus</i>				
<i>Chrysothamnus parryi</i>				
<i>Cornus sericea</i>				
<i>Juniperus communis</i>				
<i>Lonicera involucrata</i>	20 (9)			
<i>Potentilla fruticosa</i>	1 (0.4)			
<i>Ribes inerme</i>		1 (1)	20 (10)	
<i>Ribes oxycanthoides</i>				
<i>Ribes</i> sp.				
<i>Rosa woodsii</i>		1 (1)	1 (0.4)	
<i>Rubus idaeus</i>	1 (0.4)			
<i>Salix planifolia</i>				
<i>Salix wolfii</i>				
<i>Shepherdia canadensis</i>				
<i>Symphoricarpos occidentalis</i>			1 (0.4)	
<i>Symphoricarpos oreophilus</i>				
LOW SHRUBS AND SEEDLINGS				
<i>Arctostaphylos uva-ursi</i>				
<i>Mahonia repens</i>				
<i>Picea engelmannii</i> seedling				
<i>Populus angustifolia</i> seedling				
<i>Vaccinium scoparium</i>				
GRAMINOIDS				
<i>Agropyron</i> spp.				

SPECIES	Plots			
	1	Salboo/ Poapra	4	Uncl
	3	1	2	3
	3	1	1	1
Agropyron subsecundum			1 (0.4)	
Agropyron trachycaulum	1 (0.4)	10 (6)		
Agrostis exarata		1 (1)	3 (1)	
Agrostis scabra				6 (3)
Bromus anomalus	10 (4)		10 (5)	
Bromus ciliatus				
Bromus sp.				
Calamagrostis canadensis				
Carex aquatilis				
Carex aurea				
Carex athrostachya				
Carex gynocrates	10 (4)			
Carex lanuginosa				
Carex microptera	3 (1)		3 (1)	40 (20)
Carex pennsylvanica				
Carex rostrata				
Carex spp.	1 (0.4)		1 (0.4)	
Danthonia intermedia				
Deschampsia caespitosa				3 (2)
Eleocharis palustris	1 (0.4)			
Elymus glaucus				
Elymus x macounii			3 (1)	
Elymus sp.				
Festuca idahoensis				
Festuca saximontana				
Glyceria striata		20 (12)		
Hordeum brachyantherum				
Juncus balticus	3 (1)			
Juncus halleyi & J. traceyi				
Juncus longistylus & J. ensifolius				
Juncus mertensianus				
Juncus sp.				
Koeleria macrantha				
Muhlenbergia richardsonis				
Phleum alpinum				
Phleum pratense*		10 (6)		1 (1)
Phleum sp.				
Poa interior				
Poa juncifolia				
Poa palustris*	10 (4)			
Poa pratensis*	20 (9)	3 (2)	20 (10)	
Poa sp.				
Stipa lettermanii				
Stipa nelsonii				
Trisetum spicatum				
Trisetum wolfii				
FORBS				
Achillea millefolium	1 (0.4)	3 (2)	10 (5)	
Aconitum columbianum			1 (0.4)	
Actaea rubra				
Agoseris glauca				
Allium spp.				
Anaphalis margaritacea				
Androsace filiformis				

SPECIES	Plots			
	1	Salboo/ Poapra	4	Uncl
	3	1	2	3
	3	1	1	1
<i>Androsace septentrionalis</i>				
<i>Antennaria microphylla</i>				
<i>Antennaria umbrinella</i>				
<i>Arnica chamissonis</i>			1 (0.4)	
<i>Arnica mollis</i>				
<i>Artemisia ludoviciana</i>				
<i>Aster adscendens</i>				
<i>Aster foliaceus</i>			10 (5)	3 (2)
<i>Aster occidentalis</i>				
<i>Astragalus alpinus</i>				
<i>Caltha leptosepala</i>				
<i>Campanula rotundifolia</i>				
<i>Caradmine breweri</i>				
<i>Cerastium arvense</i>				
<i>Cerastium fontanum</i>				
<i>Cerastium nutans</i>				
<i>Cirsium arvense*</i>		20 (12)	10 (5)	
<i>Cirsium spp.</i>				
<i>Cirsium vulgare*</i>			1 (0.4)	
<i>Conioselinum scopulorum</i>				
<i>Descurainia incana</i>				
<i>Dodecatheon pulchellum</i>				
<i>Epilobium angustifolium</i>				
<i>Epilobium brachycarpum</i>				
<i>Epilobium ciliatum</i>		1 (1)		3 (2)
<i>Equisetum arvense</i>	3 (1)			
<i>Equisetum laevigatum</i>	1 (0.4)			
<i>Equisetum sp.</i>				
<i>Erigeron glabellus</i>				
<i>Erigeron speciosus</i>				
<i>Erigeron ursinus</i>				
<i>Fragaria virginiana</i>				
<i>Frasera speciosa</i>	10 (4)		3 (1)	3 (2)
<i>Galium aparine</i>				
<i>Galium boreale</i>	3 (1)			
<i>Galium trifidum</i>				30 (15)
<i>Geranium richardsonii</i>	3 (1)	1 (1)	1 (0.4)	
<i>Geum aleppicum</i>	1 (0.4)		3 (1)	
<i>Geum macrophyllum</i>				10 (5)
<i>Heracleum sphondylium</i>				
<i>Hypericum formosum</i>				
<i>Ligusticum porteri</i>				
<i>Ligusticum tenuifolium</i>				1 (1)
<i>Lupinus argenteus</i>				
<i>Maianthemum stellatum</i>	10 (4)	1 (1)		
<i>Medicago lupulina*</i>				
<i>Mentha arvensis</i>				
<i>Mertensia ciliata & M. arizonica</i>	3 (1)	3 (2)		
<i>Mitella pentandra</i>				
<i>Orthilia secunda</i>				
<i>Osmorhiza spp.</i>				
<i>Oxypolis fendleri</i>				
<i>Pedicularis groenlandica</i>				
<i>Perideridia montana</i>				
<i>Plantago major*</i>				

SPECIES	Plots			Uncl
	1	Salboo/ Poapra	4	
	3	1	2	3
	3	1	1	1
Polygonum bistortoides			1 (0.4)	
Polygonum douglasii			1 (0.4)	
Polygonum viviparum			1 (0.4)	
Potentilla anserina			1 (0.4)	
Potentilla diversifolia	1 (0.4)		1 (0.4)	
Potentilla gracilis				
Prunella vulgaris				
Ranunculus spp.				
Rudbeckia laciniata		3 (2)		
Rumex crispus*				
Saxifraga odontoloma				
Senecio eremophilus				
Senecio triangularis				
Sidalcea neomexicana	1 (0.4)			
Solidago canadensis				
Solidago gigantea		3 (2)		
Solidago multiradiata				
Stellaria borealis				
Taraxacum officinale*	3 (1)	10 (6)	20 (10)	
Thalictrum fendleri	10 (4)		3 (1)	
Thalictrum sparsiflorum				
Thalspi arvense*				
Tragopogon dubius*				
Trifolium longipes				
Trifolium pratense*			10 (5)	
Trifolium repens*	1 (0.4)	3 (2)		
Trollius laxus				
Urtica dioica			3 (1)	
Veronica wormskjoldii				1 (1)
Veronica serpyllifolia				
Vicia americana	3 (1)	3 (2)		
Viola sp.				1 (1)
Total tree cover				
Total shrub cover	80	74	60	90
Tall	80	74	50	90
Medium	2	1	20	
Low				
Total graminoid cover	40	40	20	40
Total forb cover	40	40	40	40
Ground cover				
Bare soil	1	10	3	1
Gravel				
Rock	1			
Litter	80	75	90	85
Wood	1	1	3	
Moss	1			10

* Exotic species

Table I-6. Absolute canopy cover (and relative canopy cover) for each species in plots of the Alnus incana/Mesic Graminoid community (Alninc/MG) and the unclassified Alnus incana stand (Uncl). Relative canopy cover for species A in a plot = (cover of species A in the plot/cover of all species in the plot).

SPECIES	Plots Alninc/MG				Uncl
	4 1 1	1 3 1	1 6 2	8 2 1	9 1 1
TREES					
<i>Abies lasiocarpa</i>					20 (13)
<i>Picea engelmannii</i>					20 (13)
<i>Picea pungens</i>					
<i>Pinus contorta</i>					
<i>Populus angustifolia</i>					
<i>Populus tremuloides</i>					
TALL SHRUBS AND SAPLINGS					
<i>Alnus incana</i>	90 (42)	73 (29)	50 (16)	30 (18)	60 (38)
<i>Amelanchier alnifolia</i>					
<i>Betula occidentalis</i>					
<i>Cornus sericea</i>		3 (1)			
<i>Lonicera involucrata</i>		3 (1)		1 (1)	1 (1)
<i>Populus angustifolia</i> sapling		3 (1)		3 (2)	
<i>Populus tremuloides</i> sapling					
<i>Salix bebbiana</i>					
<i>Salix boothii</i>		4 (2)	30 (9)	3 (2)	
<i>Salix exigua</i>		3 (1)		10 (6)	
<i>Salix geyeriana</i>					10 (6)
<i>Salix lasiandra</i>		3 (1)			
<i>Salix planifolia</i>					
<i>Salix</i> spp.					
MEDIUM SHRUBS					
<i>Artemisia cana</i>					
<i>Artemisia tridentata</i>					
<i>Chrysothamnus nauseosus</i>				3 (2)	
<i>Chrysothamnus parryi</i>				10 (6)	
<i>Juniperus communis</i>	3 (1)				
<i>Potentilla fruticosa</i>					
<i>Ribes inerme</i>					
<i>Ribes oxycanthoides</i>					3 (2)
<i>Ribes</i> sp.				3 (2)	
<i>Rosa woodsii</i>					
<i>Rubus idaeus</i>					
<i>Salix wolfii</i>					
<i>Shepherdia canadensis</i>					
<i>Symphoricarpos occidentalis</i>					
<i>Symphoricarpos oreophilus</i>					
LOW SHRUBS AND SEEDLINGS					
<i>Arctostaphylos uva-ursi</i>					
<i>Mahonia repens</i>					
<i>Picea engelmannii</i> seedling					
<i>Populus angustifolia</i> seedling		3 (1)	50 (16)		
<i>Vaccinium scoparium</i>					10 (6)
GRAMINOIDS					
<i>Agropyron</i> spp.					
<i>Agropyron subsecundum</i>					

SPECIES	Plots				Uncl
	4	1	1	8	
	1	3	6	2	9
	1	1	2	1	1
Agropyron trachycaulum				1 (1)	
Agrostis exarata	3 (1)			1 (1)	
Agrostis scabra		10 (4)			
Bromus anomalus					
Bromus ciliatus				1 (1)	
Bromus sp.					
Calamagrostis canadensis				50 (30)	3 (2)
Carex aquatilis	10 (5)				
Carex aurea					
Carex athrostachya					
Carex gynocrates					
Carex lanuginosa		1 (0.4)			
Carex microptera	1 (0.4)	3 (1)		10 (6)	
Carex pensylvanica					
Carex rostrata					
Carex spp.	3 (1)		10 (3)	3 (2)	1 (1)
Danthonia intermedia					
Deschampsia caespitosa					
Eleocharis palustris		10 (4)	20 (6)		
Elymus glaucus					
Elymus x macounii				3 (2)	
Elymus sp.					
Festuca idahoensis					
Festuca saximontana					
Glyceria striata	30 (14)		20 (6)	1 (1)	
Hordeum brachyantherum					
Juncus balticus	3 (1)	3 (1)	30 (9)		1 (1)
Juncus halleyi & J. traceyi					
Juncus longistylus & J. ensifolius		3 (1)	1 (0.4)		1 (1)
Juncus mertensianus					1 (1)
Juncus sp.					
Koeleria macrantha					
Muhlenbergia richardsonis					
Phleum alpinum					
Phleum pratense*	3 (1)		3 (1)	1 (1)	
Phleum sp.				1 (1)	
Poa interior				3 (2)	
Poa juncifolia					
Poa palustris*				1 (1)	
Poa pratensis*	10 (5)	60 (24)	30 (9)		
Poa sp.					
Stipa lettermanii					
Stipa nelsonii					
Trisetum spicatum					1 (1)
Trisetum wolfii					
FORBS					
Achillea millefolium		1 (0.4)			
Aconitum columbianum					
Actaea rubra				3 (2)	
Agoseris glauca					
Allium spp.				1 (1)	
Anaphalis margaritacea					
Androsace filiformis				1 (1)	
Androsace septentrionalis					
Antennaria microphylla					1 (1)

SPECIES	Plots				Uncl
	4	1	1	8	
	1	3	6	2	9
	1	1	2	1	1
Antennaria umbrinella					
Arnica chamissonis					
Arnica mollis					3 (2)
Artemisia ludoviciana					
Aster adscendens					
Aster foliaceus					
Aster occidentalis					
Astragalus alpinus					
Caltha leptosepala					
Campanula rotundifolia					
Caradmine breweri	3 (1)				
Cerastium arvense					
Cerastium fontanum					
Cerastium nutans					
Cirsium arvense*		10 (4)			
Cirsium spp.					
Cirsium vulgare*					
Conioselinum scopulorum				3 (2)	
Descurainia incana					
Dodecatheon pulchellum				1 (1)	
Epilobium angustifolium				2 (1)	3 (2)
Epilobium brachycarpum					
Epilobium ciliatum			10 (3)		
Equisetum arvense					
Equisetum laevigatum	3 (1)			1 (1)	1 (1)
Equisetum sp.				1 (1)	
Erigeron glabellus		10 (4)	10 (3)		
Erigeron speciosus					10 (6)
Erigeron ursinus				1 (1)	
Fragaria virginiana					
Frasera speciosa					
Galium aparine		3 (1)			
Galium boreale					
Galium trifidum				1 (1)	
Geranium richardsonii		1 (0.4)		1 (1)	1 (1)
Geum aleppicum		3 (1)	1 (0.4)	1 (1)	
Geum macrophyllum					
Heracleum sphondylium				3 (2)	
Hypericum formosum		3 (1)			
Ligusticum porteri					1 (1)
Ligusticum tenuifolium					
Lupinus argenteus					
Maianthemum stellatum	3 (1)	20 (8)		1 (1)	1 (1)
Medicago lupulina*					
Mentha arvensis	10 (5)		20 (6)	1 (1)	
Mertensia ciliata & M. arizonica	10 (5)				
Mitella pentandra					
Orthilia secunda					1 (1)
Osmorhiza spp.					1 (1)
Oxypolis fendleri					
Pedicularis groenlandica					1 (1)
Perideridia montana					
Plantago major*			1 (0.4)		
Polygonum bistortoides					
Polygonum douglasii					
Polygonum viviparum					

SPECIES	Plots				Uncl
	4	1	1	8	
	1	3	6	2	1
	1	1	2	1	1
Potentilla anserina					
Potentilla diversifolia					
Potentilla gracilis	3 (1)				
Prunella vulgaris	10 (5)		20 (6)		
Ranunculus spp.					
Rudbeckia laciniata	10 (5)	3 (1)	1 (0.4)		
Rumex crispus*					
Saxifraga odontoloma					1 (1)
Senecio eremophilus		3 (1)			
Senecio triangularis				3 (2)	1 (1)
Sidalcea neomexicana					
Solidago canadensis					
Solidago gigantea					
Solidago multiradiata					
Stellaria borealis				1 (1)	
Taraxacum officinale*	3 (1)	3 (1)	1 (0.4)		
Thalictrum fendleri		3 (1)		1 (1)	
Thalictrum sparsiflorum					
Thalspi arvense*					
Tragopogon dubius*					
Trifolium longipes					
Trifolium pratense*	3 (1)				
Trifolium repens*					
Trollius laxus					
Urtica dioica		1 (0.4)			
Veronica wormskjoldii					
Veronica serpyllifolia					
Vicia americana	1 (0.4)			1 (1)	
Viola sp.		1 (0.4)			
Total tree cover					20
Total shrub cover	90	90	70	40	60
Tall	90	90	50	40	60
Medium	3			6	3
Low		3	50		10
Total graminoid cover	50	90	80	60	3
Total forb cover	40	40	50	20	20
Ground cover					
Bare soil	3	10	30	1	1
Gravel	1			1	10
Rock	1	1	1	1	40
Litter	75	80	60	70	30
Wood	10	1	1	30	10
Moss	3		3	1	3

* Exotic species

Table I-7. Absolute canopy cover (and relative canopy cover) for each species in plots of the *Salix wolfii/Deschampsia caespitosa* community. Relative canopy cover for species A in a plot = (cover of species A in the plot/cover of all species in the plot).

Species	Plots	
	0 1 1	0 1 2
TREES		
<i>Abies lasiocarpa</i>		
<i>Picea engelmannii</i>		
<i>Picea pungens</i>		
<i>Pinus contorta</i>		1 (1)
<i>Populus angustifolia</i>		
<i>Populus tremuloides</i>		
TALL SHRUBS AND SAPLINGS		
<i>Alnus incana</i>		
<i>Amelanchier alnifolia</i>		
<i>Betula occidentalis</i>		
<i>Populus angustifolia</i> sapling		
<i>Populus tremuloides</i> sapling		
<i>Salix bebbiana</i>		
<i>Salix boothii</i>		
<i>Salix exigua</i>		
<i>Salix geyeriana</i>		
<i>Salix lasiandra</i>		
<i>Salix</i> spp.		
MEDIUM SHRUBS		
<i>Artemisia cana</i>		
<i>Artemisia tridentata</i>		
<i>Chrysothamnus nauseosus</i>		
<i>Chrysothamnus parryi</i>		
<i>Cornus sericea</i>		
<i>Juniperus communis</i>		
<i>Lonicera involucrata</i>		
<i>Potentilla fruticosa</i>	10 (7)	3 (2)
<i>Ribes inerme</i>		
<i>Ribes oxyacanthoides</i>		
<i>Ribes</i> sp.		
<i>Rosa woodsii</i>		
<i>Rubus idaeus</i>		
<i>Salix planifolia</i>	1 (1)	3 (2)
<i>Salix wolfii</i>	70 (51)	80 (57)
<i>Shepherdia canadensis</i>		
<i>Symphoricarpos occidentalis</i>		
<i>Symphoricarpos oreophilus</i>		
LOW SHRUBS AND SEEDLINGS		
<i>Arctostaphylos uva-ursi</i>		
<i>Mahonia repens</i>		
<i>Picea engelmannii</i> seedling	1 (1)	
<i>Populus angustifolia</i> seedling		
<i>Vaccinium scoparium</i>		
GRAMINOIDS		
<i>Agropyron</i> spp.		
<i>Agropyron subsecundum</i>		
<i>Agropyron trachycaulum</i>		

Species	Plots	
	0 1 1	0 1 2
Agrostis exarata		
Agrostis scabra		
Bromus anomalus		
Bromus ciliatus		
Bromus sp.		
Calamagrostis canadensis		
Carex aquatilis		
Carex aurea		
Carex athrostachya		
Carex gynocrates		
Carex lanuginosa		
Carex microptera	10 (7)	20 (14)
Carex pennsylvanica		
Carex rostrata		
Carex spp.		
Danthonia intermedia	1 (1)	1 (1)
Deschampsia caespitosa	3 (2)	3 (2)
Eleocharis palustris		
Elymus glaucus		
Elymus x macounii		
Elymus sp.		
Festuca idahoensis		
Festuca saximontana	1 (1)	
Glyceria striata		
Hordeum brachyantherum		
Juncus balticus	1 (1)	
Juncus halleyi & J. traceyi		
Juncus longistylus & J. ensifolius		
Juncus mertensianus		
Juncus sp.		
Koeleria macrantha		
Muhlenbergia richardsonis		
Phleum alpinum	3 (2)	1 (1)
Phleum pratense*		
Phleum sp.		
Poa interior		
Poa juncifolia		
Poa palustris*		
Poa pratensis*		
Poa sp.	1 (1)	
Stipa lettermanii		
Stipa nelsonii		
Trisetum spicatum	1 (1)	1 (1)
Trisetum wolfii	1 (1)	
FORBS		
Achillea millefolium	3 (2)	3 (2)
Aconitum columbianum		
Actaea rubra		
Agoseris glauca	3 (2)	1 (1)
Allium spp.		
Anaphalis margaritacea		
Androsace filiformis		
Androsace septentrionalis		
Antennaria microphylla		
Antennaria umbrinella	1 (1)	3 (2)
Arnica chamissonis		

Species	Plots	
	0	0
	1	1
	1	2
<i>Arnica mollis</i>		
<i>Artemisia ludoviciana</i>		
<i>Aster adscendens</i>		
<i>Aster foliaceus</i>		
<i>Aster occidentalis</i>		
<i>Astragalus alpinus</i>		
<i>Caltha leptosepala</i>		
<i>Campanula rotundifolia</i>		
<i>Caradmine breweri</i>		
<i>Cerastium arvense</i>		
<i>Cerastium fontanum</i>		
<i>Cerastium nutans</i>		
<i>Cirsium arvense*</i>		
<i>Cirsium spp.</i>		
<i>Cirsium vulgare*</i>		
<i>Conioselinum scopulorum</i>		
<i>Descurainia incana</i>		
<i>Dodecatheon pulchellum</i>		
<i>Epilobium angustifolium</i>		
<i>Epilobium brachycarpum</i>		
<i>Epilobium ciliatum</i>		
<i>Equisetum arvense</i>		
<i>Equisetum laevigatum</i>		
<i>Equisetum sp.</i>		
<i>Erigeron glabellus</i>		
<i>Erigeron speciosus</i>		
<i>Erigeron ursinus</i>		
<i>Fragaria virginiana</i>	10 (7)	3 (2)
<i>Frasera speciosa</i>		
<i>Galium aparine</i>		
<i>Galium boreale</i>		
<i>Galium trifidum</i>		
<i>Geranium richardsonii</i>		
<i>Geum aleppicum</i>		
<i>Geum macrophyllum</i>		
<i>Heracleum sphondylium</i>		
<i>Hypericum formosum</i>		
<i>Ligusticum porteri</i>		
<i>Ligusticum tenuifolium</i>		
<i>Lupinus argenteus</i>		
<i>Maianthemum stellatum</i>		
<i>Medicago lupulina*</i>		
<i>Mentha arvensis</i>		
<i>Mertensia ciliata & M. arizonica</i>		
<i>Mitella pentandra</i>		
<i>Orthilia secunda</i>		
<i>Osmorhiza spp.</i>		
<i>Oxypolis fendleri</i>	1 (1)	
<i>Pedicularis groenlandica</i>	1 (1)	1 (1)
<i>Perideridia montana</i>		
<i>Plantago major*</i>		
<i>Polygonum bistortoides</i>		
<i>Polygonum douglasii</i>		
<i>Polygonum viviparum</i>		
<i>Potentilla anserina</i>		
<i>Potentilla diversifolia</i>	1 (1)	3 (2)
<i>Potentilla gracilis</i>		

Species	Plots	
	0	0
	1	1
	1	2
<i>Prunella vulgaris</i>		
<i>Ranunculus</i> spp.		
<i>Rudbeckia laciniata</i>		
<i>Rumex crispus</i> *		
<i>Saxifraga odontoloma</i>		
<i>Senecio eremophilus</i>		
<i>Senecio triangularis</i>		
<i>Sidalcea neomexicana</i>		
<i>Solidago canadensis</i>		
<i>Solidago gigantea</i>		
<i>Solidago multiradiata</i>	1 (1)	4 (3)
<i>Stellaria borealis</i>	1 (1)	1 (1)
<i>Taraxacum officinale</i> *	3 (2)	3 (2)
<i>Thalictrum fendleri</i>		
<i>Thalictrum sparsiflorum</i>		
<i>Thalpi arvense</i> *		
<i>Tragopogon dubius</i> *		
<i>Trifolium longipes</i>		
<i>Trifolium pratense</i> *		
<i>Trifolium repens</i> *		
<i>Trollius laxus</i>	3 (2)	1 (1)
<i>Urtica dioica</i>		
<i>Veronica wormskjoldii</i>	1 (1)	3 (2)
<i>Veronica serpyllifolia</i>	1 (1)	1 (1)
<i>Vicia americana</i>		
<i>Viola</i> sp.		
Total tree cover		1
Total shrub cover	70	80
Tall	70	80
Medium	10	3
Low	1	
Total graminoid cover	20	20
Total forb cover	30	20
Ground cover		
Bare soil	3	1
Gravel	1	
Rock	3	1
Litter	90	90
Wood		
Moss	1	3

* Exotic species

Table I-8. Absolute canopy cover (and relative canopy cover) for each species in plots of the Artemisia cana/Poa pratensis community. Relative canopy cover for species A in a plot = (cover of species A in the plot/cover of all species in the plot).

SPECIES	Plots			
	1 2 2	1 6 1	4 1 2	6 1 2
TREES				
<i>Abies lasiocarpa</i>				
<i>Picea engelmannii</i>				
<i>Picea pungens</i>				
<i>Pinus contorta</i>				
<i>Populus angustifolia</i>				
<i>Populus tremuloides</i>				
TALL SHRUBS AND SAPLINGS				
<i>Alnus incana</i>				
<i>Amelanchier alnifolia</i>				
<i>Betula occidentalis</i>				
<i>Populus angustifolia</i> sapling				
<i>Populus tremuloides</i> sapling				
<i>Salix bebbiana</i>				
<i>Salix boothii</i>				
<i>Salix exigua</i>				
<i>Salix geyeriana</i>				
<i>Salix lasiandra</i>				
<i>Salix</i> spp.				
MEDIUM SHRUBS				
<i>Artemisia cana</i>	40 (28)	60 (39)	10 (10)	70 (47)
<i>Artemisia tridentata</i>	10 (7)	1 (1)		
<i>Chrysothamnus nauseosus</i>				
<i>Chrysothamnus parryi</i>		1 (1)		
<i>Cornus sericea</i>				
<i>Juniperus communis</i>				
<i>Lonicera involucrata</i>				
<i>Potentilla fruticosa</i>	3 (2)	3 (2)		1 (1)
<i>Ribes inerme</i>		3 (2)		
<i>Ribes oxycanthoides</i>				
<i>Ribes</i> sp.				
<i>Rosa woodsii</i>		3 (2)		
<i>Rubus idaeus</i>				
<i>Salix planifolia</i>				
<i>Salix wolfii</i>				
<i>Shepherdia canadensis</i>				
<i>Symphoricarpos occidentalis</i>			10 (10)	
<i>Symphoricarpos oreophilus</i>		1 (1)		
LOW SHRUBS AND SEEDLINGS				
<i>Arctostaphylos uva-ursi</i>				
<i>Mahonia repens</i>			1 (1)	
<i>Picea engelmannii</i> seedling				
<i>Populus angustifolia</i> seedling				
<i>Vaccinium scoparium</i>				
GRAMINOIDS				
<i>Agropyron</i> spp.				
<i>Agropyron subsecundum</i>		1 (1)	3 (3)	
<i>Agropyron trachycaulum</i>	3 (2)			1 (1)

SPECIES	Plots							
	1 2 2	1 6 1	4 1 2	6 1 2				
<i>Arnica mollis</i>				1	(1)			
<i>Artemisia ludoviciana</i>								
<i>Aster adscendens</i>				1	(1)			
<i>Aster foliaceus</i>								
<i>Aster occidentalis</i>								
<i>Astragalus alpinus</i>								
<i>Caltha leptosepala</i>								
<i>Campanula rotundifolia</i>								
<i>Caradmine breweri</i>				1	(1)			
<i>Cerastium arvense</i>								
<i>Cerastium fontanum</i>								
<i>Cerastium nutans</i>								
<i>Cirsium arvense*</i>	1	(1)	1	(1)				
<i>Cirsium spp.</i>			3	(3)	1	(1)		
<i>Cirsium vulgare*</i>								
<i>Conioselinum scopulorum</i>								
<i>Descurainia incana</i>								
<i>Dodecatheon pulchellum</i>								
<i>Epilobium angustifolium</i>								
<i>Epilobium brachycarpum</i>								
<i>Epilobium ciliatum</i>								
<i>Equisetum arvense</i>	3	(2)						
<i>Equisetum laevigatum</i>	1	(1)						
<i>Equisetum sp.</i>								
<i>Erigeron glabellus</i>	11	(8)						
<i>Erigeron speciosus</i>		10	(6)					
<i>Erigeron ursinus</i>				3	(2)			
<i>Fragaria virginiana</i>								
<i>Frasera speciosa</i>				1	(1)			
<i>Galium aparine</i>	1	(1)	1	(1)				
<i>Galium boreale</i>								
<i>Galium trifidum</i>								
<i>Geranium richardsonii</i>								
<i>Geum aleppicum</i>				1	(1)			
<i>Geum macrophyllum</i>								
<i>Heracleum sphondylium</i>								
<i>Hypericum formosum</i>								
<i>Ligusticum porteri</i>								
<i>Ligusticum tenuifolium</i>								
<i>Lupinus argenteus</i>								
<i>Maianthemum stellatum</i>		1	(1)					
<i>Medicago lupulina*</i>								
<i>Mentha arvensis</i>								
<i>Mertensia ciliata & M. arizonica</i>								
<i>Mitella pentandra</i>								
<i>Orthilia secunda</i>								
<i>Osmorhiza spp.</i>								
<i>Oxypolis fendleri</i>								
<i>Pedicularis groenlandica</i>								
<i>Perideridia montana</i>			1	(1)				
<i>Plantago major*</i>								
<i>Polygonum bistortoides</i>								
<i>Polygonum douglasii</i>	1	(1)	1	(1)	3	(3)	1	(1)
<i>Polygonum viviparum</i>								
<i>Potentilla anserina</i>								
<i>Potentilla diversifolia</i>								
<i>Potentilla gracilis</i>	4	(3)	3	(2)	3	(3)	1	(1)

SPECIES	Plots			
	1 2 2	1 6 1	4 1 2	6 1 2
<i>Prunella vulgaris</i>				
<i>Ranunculus</i> spp.				
<i>Rudbeckia laciniata</i>				
<i>Rumex crispus</i> *		1 (1)		
<i>Saxifraga odontoloma</i>				
<i>Senecio eremophilus</i>				
<i>Senecio triangularis</i>				
<i>Sidalcea neomexicana</i>	1 (1)	1 (1)		
<i>Solidago canadensis</i>				
<i>Solidago gigantea</i>				
<i>Solidago multiradiata</i>				
<i>Stellaria borealis</i>				
<i>Taraxacum officinale</i> *	3 (2)	1 (1)	10 (10)	20 (13)
<i>Thalictrum fendleri</i>	1 (1)			
<i>Thalictrum sparsiflorum</i>				
<i>Thalspi arvense</i> *				
<i>Tragopogon dubius</i> *			1 (1)	
<i>Trifolium longipes</i>				
<i>Trifolium pratense</i> *			10 (10)	3 (2)
<i>Trifolium repens</i> *				
<i>Trollius laxus</i>				
<i>Urtica dioica</i>				
<i>Veronica wormskjoldii</i>				
<i>Veronica serpyllifolia</i>				
<i>Vicia americana</i>	1 (1)			1 (1)
<i>Viola</i> sp.				1 (1)
Total tree cover				
Total shrub cover	50	70	20	70
Tall				
Medium	50	70	20	70
Low		1		
Total graminoid cover	50	40	40	30
Total forb cover	30	20	30	30
Ground cover				
Bare soil	60	40	40	30
Gravel	1	1		1
Rock	1	1	1	
Litter	35	50	35	70
Wood	10	5	10	3
Moss	1			

* Exotic species

Table I-9. Absolute canopy cover (and relative canopy cover) for each species in plots of the Carex rostrata community. Relative canopy cover for species A in a plot = (cover of species A in the plot/cover of all species in the plot).

SPECIES	Plots			
	3 2 1	2 1 1	2 1 2	7 1 1
TREES				
<i>Abies lasiocarpa</i>				
<i>Picea engelmannii</i>				
<i>Picea pungens</i>				
<i>Pinus contorta</i>				
<i>Populus angustifolia</i>				
<i>Populus tremuloides</i>				
TALL SHRUBS AND SAPLINGS				
<i>Alnus incana</i>				
<i>Amelanchier alnifolia</i>				
<i>Betula occidentalis</i>				
<i>Populus angustifolia</i> sapling				
<i>Populus tremuloides</i> sapling				
<i>Salix bebbiana</i>				
<i>Salix boothii</i>				
<i>Salix exigua</i>				
<i>Salix geyeriana</i>				10 (9)
<i>Salix lasiandra</i>				1 (1)
<i>Salix</i> spp.			3 (5)	
MEDIUM SHRUBS				
<i>Artemisia cana</i>				
<i>Artemisia tridentata</i>				
<i>Chrysothamnus nauseosus</i>				
<i>Chrysothamnus parryi</i>				
<i>Cornus sericea</i>				
<i>Juniperus communis</i>				
<i>Lonicera involucrata</i>				
<i>Potentilla fruticosa</i>				
<i>Ribes inerme</i>				
<i>Ribes oxycanthoides</i>				
<i>Ribes</i> sp.				
<i>Rosa woodsii</i>				
<i>Rubus idaeus</i>				
<i>Salix planifolia</i>				
<i>Salix wolfii</i>				
<i>Shepherdia canadensis</i>				
<i>Symphoricarpos occidentalis</i>				
<i>Symphoricarpos oreophilus</i>				
LOW SHRUBS AND SEEDLINGS				
<i>Arctostaphylos uva-ursi</i>				
<i>Mahonia repens</i>				
<i>Picea engelmannii</i> seedling				
<i>Populus angustifolia</i> seedling				
<i>Vaccinium scoparium</i>				
GRAMINOIDS				
<i>Agropyron</i> spp.				1 (1)
<i>Agropyron subsecundum</i>				
<i>Agropyron trachycaulum</i>	3 (2)			

SPECIES	Plots			
	3 2 1	2 1 1	2 1 2	7 1 1
<i>Agrostis exarata</i>		3 (3)		
<i>Agrostis scabra</i>				
<i>Bromus anomalus</i>	10 (8)			
<i>Bromus ciliatus</i>				
<i>Bromus</i> sp.				
<i>Calamagrostis canadensis</i>	1 (1)	1 (1)		
<i>Carex aquatilis</i>				
<i>Carex aurea</i>				
<i>Carex athrostachya</i>				1 (1)
<i>Carex gynocrates</i>				
<i>Carex lanuginosa</i>				
<i>Carex microptera</i>	10 (8)			
<i>Carex pensylvanica</i>		10 (11)	3 (5)	
<i>Carex rostrata</i>	20 (16)	30 (32)	50 (81)	60 (53)
<i>Carex</i> spp.				
<i>Danthonia intermedia</i>				
<i>Deschampsia caespitosa</i>	3 (2)	20 (22)	1 (2)	1 (1)
<i>Eleocharis palustris</i>				
<i>Elymus glaucus</i>				
<i>Elymus x macounii</i>				
<i>Elymus</i> sp.				
<i>Festuca idahoensis</i>		3 (3)		
<i>Festuca saximontana</i>				
<i>Glyceria striata</i>		1 (1)		3 (3)
<i>Hordeum brachyantherum</i>	10 (8)	3 (3)		
<i>Juncus balticus</i>				
<i>Juncus halleyi</i> & <i>J. traceyi</i>		1 (1)		1 (1)
<i>Juncus longistylus</i> & <i>J. ensifolius</i>				
<i>Juncus mertensianus</i>				
<i>Juncus</i> sp.				
<i>Koeleria macrantha</i>				
<i>Muhlenbergia richardsonis</i>				
<i>Phleum alpinum</i>				
<i>Phleum pratense</i> *	10 (8)	10 (11)		1 (1)
<i>Phleum</i> sp.				
<i>Poa interior</i>				
<i>Poa juncifolia</i>				
<i>Poa palustris</i> *				3 (3)
<i>Poa pratensis</i> *				
<i>Poa</i> sp.				
<i>Stipa lettermanii</i>				
<i>Stipa nelsonii</i>				
<i>Trisetum spicatum</i>				
<i>Trisetum wolfii</i>		3 (3)		
FORBS				
<i>Achillea millefolium</i>	10 (8)			1 (1)
<i>Aconitum columbianum</i>				
<i>Actaea rubra</i>				
<i>Agoseris glauca</i>				
<i>Allium</i> spp.				
<i>Anaphalis margaritacea</i>				
<i>Androsace filiformis</i>	1 (1)			
<i>Androsace septentrionalis</i>				
<i>Antennaria microphylla</i>				
<i>Antennaria umbrinella</i>				

SPECIES	Plots			
	3	2	2	7
	2	1	1	1
	1	1	2	1
Arnica chamissonis				
Arnica mollis				
Artemisia ludoviciana				
Aster adscendens				1 (1)
Aster foliaceus				
Aster occidentalis	10 (8)			
Astragalus alpinus				
Caltha leptosepala		3 (3)		
Campanula rotundifolia				
Caradmine breweri				
Cerastium arvense				
Cerastium fontanum				
Cerastium nutans				
Cirsium arvense*				
Cirsium spp.	1 (1)			1 (1)
Cirsium vulgare*				
Conioselinum scopulorum				1 (1)
Descurainia incana	1 (1)			
Dodecatheon pulchellum				
Epilobium angustifolium				1 (1)
Epilobium brachycarpum				
Epilobium ciliatum		1 (1)	1 (2)	
Equisetum arvense				
Equisetum laevigatum				
Equisetum sp.				
Erigeron glabellus				
Erigeron speciosus				
Erigeron ursinus				
Fragaria virginiana				
Frasera speciosa	10 (8)			
Galium aparine				
Galium boreale			3 (5)	
Galium trifidum	1 (1)			
Geranium richardsonii				
Geum aleppicum				3 (3)
Geum macrophyllum	10 (8)			
Heracleum sphondylium				
Hypericum formosum				
Ligusticum porteri				
Ligusticum tenuifolium				
Lupinus argenteus				
Maianthemum stellatum				
Medicago lupulina*				
Mentha arvensis				3 (3)
Mertensia ciliata & M. arizoni				
Mitella pentandra				
Orthilia secunda				
Osmorhiza spp.				
Oxypolis fendleri				
Pedicularis groenlandica				
Perideridia montana				
Plantago major*				
Polygonum bistortoides		3 (3)		
Polygonum douglasii	1 (1)			
Polygonum viviparum				1 (1)
Potentilla anserina				
Potentilla diversifolia				

SPECIES	Plots			
	3 2 1	2 1 1	2 1 2	7 1 1
Potentilla gracilis				1 (1)
Prunella vulgaris				3 (3)
Ranunculus spp.	1 (1)			1 (1)
Rudbeckia laciniata				
Rumex crispus*				1 (1)
Saxifraga odontoloma				
Senecio eremophilus				
Senecio triangularis				
Sidalcea neomexicana				1 (1)
Solidago canadensis				
Solidago gigantea				
Solidago multiradiata				
Stellaria borealis				
Taraxacum officinale*	10 (8)			10 (9)
Thalictrum fendleri				
Thalictrum sparsiflorum				
Thalspi arvense*				
Tragopogon dubius*				
Trifolium longipes				
Trifolium pratense*				3 (3)
Trifolium repens*				
Trollius laxus				
Urtica dioica				
Veronica wormskjoldii		1 (1)	1 (2)	
Veronica serpyllifolia				
Vicia americana				
Viola sp.				
Total tree cover				
Total shrub cover			3	10
Tall			3	10
Medium				
Low				
Total graminoid cover	70	70	50	70
Total forb cover	50	3	3	20
Ground cover				
Bare soil	3	10	80	1
Gravel	3			
Rock				
Litter	70	70	1	90
Wood		1		
Moss		3	10	

* Exotic species

Table I-10. Absolute canopy cover (and relative canopy cover) for each species in plots of the Juncus balticus community, the Carex microptera community, and the Carex aquatilis community. Relative canopy cover for species A in a plot = (cover of species A in the plot/cover of all species in the plot).

Species	Plots		
	<u>Juncus</u> <u>balticus</u>	<u>Carex</u> <u>microptera</u>	<u>Carex</u> <u>aquatilis</u>
	1	3	1
	9	3	2
	1	3	3
TREES			
Abies lasiocarpa			
Picea engelmannii			
Picea pungens			
Pinus contorta			
Populus angustifolia			
Populus tremuloides			
TALL SHRUBS AND SAPLINGS			
Alnus incana	1 (1)		
Amelanchier alnifolia			
Betula occidentalis			
Populus angustifolia sapling			
Populus tremuloides sapling			
Salix bebbiana			
Salix boothii			
Salix exigua			
Salix geyeriana			
Salix lasiandra			
Salix spp.			
MEDIUM SHRUBS			
Artemisia cana			
Artemisia tridentata			
Chrysothamnus nauseosus			
Chrysothamnus parryi			
Cornus sericea			
Juniperus communis			
Lonicera involucrata			
Potentilla fruticosa			
Ribes inerme	1 (1)		
Ribes oxycanthoides			
Ribes sp.			
Rosa woodsii			
Rubus idaeus			
Salix planifolia			
Salix wolfii			
Shepherdia canadensis			
Symphoricarpos occidentalis			
Symphoricarpos oreophilus			
LOW SHRUBS AND SEEDLINGS			
Arctostaphylos uva-ursi			
Mahonia repens			
Picea engelmannii seedling			
Populus angustifolia seedling			
Vaccinium scoparium			

Species	Plots		
	<u>Juncus</u> <u>balticus</u>	<u>Carex</u> <u>microptera</u>	<u>Carex</u> <u>aquatilis</u>
	1	3	1
	9	3	2
	1	3	3

GRAMINOIDS			
Agropyron spp.			
Agropyron subsecundum			
Agropyron trachycaulum			
Agrostis exarata	10 (7)		
Agrostis scabra			
Bromus anomalus			
Bromus ciliatus			
Bromus sp.			
Calamagrostis canadensis			
Carex aquatilis	1 (1)		50 (38)
Carex aurea			
Carex athrostachya			
Carex gynocrates			
Carex lanuginosa			
Carex microptera	3 (2)	30 (42)	
Carex pennsylvanica			20 (15)
Carex rostrata		3 (4)	2
Carex spp.	10 (7)		
Danthonia intermedia			
Deschampsia caespitosa		30 (42)	3 (2)
Eleocharis palustris			
Elymus glaucus			
Elymus x macounii			
Elymus sp.			
Festuca idahoensis			
Festuca saximontana			
Glyceria striata	1 (1)		
Hordeum brachyantherum		3 (4)	
Juncus balticus	40 (27)		20 (15)
Juncus halleyi & J. traceyi	3 (2)		
Juncus longistylus			
& J. ensifolius			
Juncus mertensianus			
Juncus sp.			
Koeleria macrantha			
Muhlenbergia richardsonis			
Phleum alpinum			
Phleum pratense*	30 (20)		
Phleum sp.			
Poa interior			
Poa juncifolia			
Poa palustris*			1 (1)
Poa pratensis*	3 (2)		1 (1)
Poa sp.			
Stipa lettermanii			
Stipa nelsonii			
Trisetum spicatum			
Trisetum wolfii			
FORBS			
Achillea millefolium	3 (2)		
Aconitum columbianum			
Actaea rubra			
Agoseris glauca			

Species	Plots		
	<u>Juncus</u> <u>balticus</u>	<u>Carex</u> <u>microptera</u>	<u>Carex</u> <u>aquatilis</u>
	1	3	1
	9	3	2
	1	3	3
Allium spp.			
Anaphalis margaritacea			
Androsace filiformis			
Androsace septentrionalis			
Antennaria microphylla			
Antennaria umbrinella			
Arnica chamissonis	3 (2)		1 (1)
Arnica mollis			
Artemisia ludoviciana			
Aster adscendens			
Aster foliaceus		3 (4)	
Aster occidentalis			
Astragalus alpinus			
Caltha leptosepala			
Campanula rotundifolia			
Caradmine breweri			
Cerastium arvense			
Cerastium fontanum			
Cerastium nutans			
Cirsium arvense*			
Cirsium spp.			
Cirsium vulgare*			
Conioselinum scopulorum			
Descurainia incana			
Dodecatheon pulchellum			
Epilobium angustifolium			
Epilobium brachycarpum			
Epilobium ciliatum		1 (1)	1 (1)
Equisetum arvense			
Equisetum laevigatum			1 (1)
Equisetum sp.			
Erigeron glabellus	1 (1)		
Erigeron speciosus	1 (1)		
Erigeron ursinus			
Fragaria virginiana			
Fraseria speciosa			
Galium aparine			
Galium boreale			
Galium trifidum		1 (1)	
Geranium richardsonii			
Geum aleppicum			
Geum macrophyllum			
Heracleum sphondylium			
Hypericum formosum	3 (2)		
Ligusticum porteri			
Ligusticum tenuifolium			
Lupinus argenteus			
Maianthemum stellatum			
Medicago lupulina*			
Mentha arvensis	1 (1)		10 (8)
Mertensia ciliata			
& M. arizonica			
Mitella pentandra			
Orthilia secunda			

Species	Plots		
	<u>Juncus</u> balticus	<u>Carex</u> microptera	<u>Carex</u> aquatilis
	1	3	1
	9	3	2
	1	3	3

Osmorhiza spp.			
Oxypolis fendleri			
Pedicularis groenlandica			
Perideridia montana	1 (1)		
Plantago major*			
Polygonum bistortoides			
Polygonum douglasii			
Polygonum viviparum			
Potentilla anserina			
Potentilla diversifolia			
Potentilla gracilis	3 (2)		1 (1)
Prunella vulgaris			
Ranunculus spp.			
Rudbeckia laciniata			
Rumex crispus*			
Saxifraga odontoloma			
Senecio eremophilus			
Senecio triangularis			
Sidalcea neomexicana	3 (2)		
Solidago canadensis			
Solidago gigantea			
Solidago multiradiata			
Stellaria borealis			
Taraxacum officinale*	20 (14)		
Thalictrum fendleri			
Thalictrum sparsiflorum			
Thalspi arvense*			
Tragopogon dubius*			
Trifolium longipes			
Trifolium pratense*			
Trifolium repens*	3 (2)		
Trollius laxus			
Urtica dioica			
Veronica wormskjoldii			
Veronica serpyllifolia			
Vicia americana	3 (2)		
Viola sp.			1 (1)
Total tree cover			
Total shrub cover	2		
Tall	1		
Medium			
Low			
Total graminoid cover	90	60	90
Total forb cover	30	5	15
Ground cover			
Bare soil	1	5	1
Gravel	1		
Rock	1		
Litter	95	90	80
Wood	1		
Moss			1

* Exotic species

Table I-11. Absolute canopy cover (and relative canopy cover) for each species in plots in the the unclassified stands. Relative canopy cover for species A in a plot = (cover of species A in the plot/cover of all species in the plot).

SPECIES	Plots							
	4 4 1	8 1 1	8 2 1	3 2 2	6 3 2	6 2 1	1 1 1	
TREES								
<i>Abies lasiocarpa</i>								
<i>Picea engelmannii</i>								
<i>Picea pungens</i>								
<i>Pinus contorta</i>								
<i>Populus angustifolia</i>								
<i>Populus tremuloides</i>		20 (12)						
TALL SHRUBS AND SAPLINGS								
<i>Alnus incana</i>		10 (6)	30 (18)					
<i>Amelanchier alnifolia</i>		3 (2)						
<i>Betula occidentalis</i>		10 (6)						
<i>Populus angustifolia</i> sapling								
<i>Populus tremuloides</i> sapling		10 (6)	1 (1)					
<i>Salix bebbiana</i>			3 (2)					
<i>Salix boothii</i>								3 (2)
<i>Salix exigua</i>								
<i>Salix geyeriana</i>			3 (2)		3 (2)	1 (7)		
<i>Salix lasiandra</i>		20 (10)	10 (6)					
<i>Salix</i> spp.	3 (2)							
MEDIUM SHRUBS								
<i>Artemisia cana</i>					1 (1)			1 (1)
<i>Artemisia tridentata</i>					1 (1)			
<i>Chrysothamnus nauseosus</i>								
<i>Chrysothamnus parryi</i>								
<i>Cornus sericea</i>		3 (2)						
<i>Juniperus communis</i>		1 (1)	3 (2)					
<i>Lonicera involucrata</i>		1 (1)	10 (6)					
<i>Potentilla fruticosa</i>								
<i>Ribes inerme</i>						1 (7)		
<i>Ribes oxycanthoides</i>		3 (2)						
<i>Ribes</i> sp.								
<i>Rosa woodsii</i>		3 (2)	3 (2)					
<i>Rubus idaeus</i>		3 (2)			1 (1)	3 (20)		
<i>Salix planifolia</i>								
<i>Salix wolfii</i>								
<i>Shepherdia canadensis</i>								
<i>Symphoricarpos occidentalis</i>								
<i>Symphoricarpos oreophilus</i>								
LOW SHRUBS AND SEEDLINGS								
<i>Arctostaphylos uva-ursi</i>								
<i>Mahonia repens</i>								
<i>Picea engelmannii</i> seedling								
<i>Populus angustifolia</i> seedling								
<i>Vaccinium scoparium</i>								
GRAMINOIDS								
<i>Agropyron</i> spp.	2 20 (15)							
<i>Agropyron subsecundum</i>		3 (2)						

SPECIES	Plots						
	4 4 1	8 1 1	8 2 1	3 2 2	6 3 2	6 2 1	1 1 1
Agropyron trachycaulum			1 (1)	1 (1)	10 (8)	1 (7)	
Agrostis exarata			1 (1)				
Agrostis scabra				1 (1)			3 (2)
Bromus anomalus				1 (1)	1 (1)		1 (1)
Bromus ciliatus			1 (1)				
Bromus sp.							
Calamagrostis canadensis		1 (1)	50 (30)				
Carex aquatilis	3 (2)						
Carex aurea							
Carex athrostachya				3 (4)			
Carex gynocrates							10 (6)
Carex lanuginosa							
Carex microptera	10 (8)		10 (6)		3 (2)		
Carex pensylvanica							
Carex rostrata	10 (8)				1 (1)		10 (6)
Carex spp.	20 (15)	10 (6)	3 (2)				
Danthonia intermedia							
Deschampsia caespitosa				1 (1)			
Elymus glaucus							
Elymus x macounii			3 (2)				
Elymus sp.		3 (2)					
Festuca idahoensis							
Festuca saximontana					3 (2)	1 (7)	
Glyceria striata		1 (1)	1 (1)		3 (2)		
Hordeum brachyantherum	1 (1)	1 (1)		1 (1)			
Juncus balticus	10 (8)				10 (8)		
Juncus halleyi & J. traceyi	1 (1)						
Juncus longistylus & J. ensifolius							10 (6)
Juncus mertensianus							
Juncus sp.							
Koeleria macrantha				1 (1)			
Muhlenbergia richardsonis						1 (7)	
Phleum alpinum							
Phleum pratense*	3 (2)	3 (2)	1 (1)	3 (4)	20 (16)		30 (18)
Phleum sp.	10 (8)		1 (1)				
Poa interior			3 (2)			1 (7)	
Poa juncifolia							
Poa palustris*			1 (1)				
Poa pratensis*	10 (8)	20 (12)		3 (4)	10 (8)		10 (6)
Poa sp.							
Stipa lettermanii						1 (7)	1 (1)
Stipa nelsonii							
Trisetum spicatum							
Trisetum wolfii							
FORBS							
Achillea millefolium	1 (1)	1 (1)		1 (1)	10 (8)		3 (2)
Aconitum columbianum							
Actaea rubra		1 (1)	3 (2)				
Agoseris glauca							
Allium spp.			1 (1)				
Anaphalis margaritacea							
Androsace filiformis			1 (1)	10 (13)			
Androsace septentrionalis							
Antennaria microphylla				1 (1)	3 (2)		
Antennaria umbrinella							
Arnica chamissonis							

SPECIES	Plots							
	4	8	8	3	6	6	1	
	4	1	2	2	3	2	1	
	1	1	1	2	2	1	1	
Arnica mollis								
Artemisia ludoviciana								
Aster adscendens								
Aster foliaceus				1 (1)				
Aster occidentalis		3 (2)						
Astragalus alpinus								
Caltha leptosepala								
Campanula rotundifolia						1 (7)		
Caradmine breweri								
Cerastium arvense				3 (4)				
Cerastium fontanum								
Cerastium nutans							1 (1)	
Cirsium arvense*		1 (1)		10 (13)	10 (8)			
Cirsium spp.				1 (1)	1 (1)		3 (2)	
Cirsium vulgare*								
Conioselinum scopulorum		1 (1)	3 (2)					
Descurainia incana								
Dodecatheon pulchellum			1 (1)					
Epilobium angustifolium			2 (1)					
Epilobium brachycarpum	1 (1)							
Epilobium ciliatum								
Equisetum arvense								
Equisetum laevigatum		3 (2)	1 (1)				3 (2)	
Equisetum sp.			1 (1)					
Erigeron glabellus							3 (2)	
Erigeron speciosus				3	1 (1)			
Erigeron ursinus			1 (1)					
Fragaria virginiana								
Frasera speciosa				20 (26)	20 (16)			
Galium aparine	1 (1)				1 (1)			
Galium boreale							1 (1)	
Galium trifidum			1 (1)					
Geranium richardsonii		1 (1)	1 (1)					
Geum aleppicum	1 (1)	3 (2)	1 (1)		3 (2)		3 (2)	
Geum macrophyllum								
Heracleum sphondylium		1 (1)	3 (2)				1 (1)	
Hypericum formosum								
Ligusticum porteri								
Ligusticum tenuifolium								
Lupinus argenteus								
Maianthemum stellatum	1 (1)	3 (2)	1 (1)		1 (1)			
Medicago lupulina*								
Mentha arvensis	1 (1)		1 (1)					
Mertensia ciliata & M. arizonica						1 (7)		
Mitella pentandra								
Orthilia secunda								
Osmorhiza spp.								
Oxypolis fendleri								
Pedicularis groenlandica								
Perideridia montana								
Plantago major*								
Polygonum bistortoides								
Polygonum douglasii				10 (13)	1 (1)	1 (7)		
Polygonum viviparum								
Potentilla anserina	3 (2)							
Potentilla diversifolia								
Potentilla gracilis				1 (1)	3 (2)		3 (2)	

SPECIES	Plots						
	4 4 1	8 1 1	8 2 1	3 2 2	6 3 2	6 2 1	1 1 1
<i>Prunella vulgaris</i>					1 (1)		1 (1)
<i>Ranunculus</i> spp.							
<i>Rudbeckia laciniata</i>		10 (6)					
<i>Rumex crispus</i> *							
<i>Saxifraga odontoloma</i>							
<i>Senecio triangularis</i>							
<i>Sidalcea neomexicana</i>			3 (2)				10 (6)
<i>Solidago canadensis</i>							
<i>Solidago gigantea</i>							
<i>Solidago multiradiata</i>							
<i>Stellaria borealis</i>							
<i>Taraxacum officinale</i> *	10 (8)	10 (6)	1 (1)	3 (4)	3 (2)	1 (7)	30 (18)
<i>Thalictrum fendleri</i>							
<i>Thalictrum sparsiflorum</i>			1 (1)				
<i>Thalspi arvense</i> *							1 (1)
<i>Tragopogon dubius</i> *							1 (1)
<i>Trifolium longipes</i>							
<i>Trifolium pratense</i> *	10 (8)	1 (1)			3 (2)		
<i>Trifolium repens</i> *							3 (2)
<i>Trollius laxus</i>							
<i>Urtica dioica</i>						1 (7)	
<i>Veronica wormskjoldii</i>							
<i>Veronica serpyllifolia</i>							
<i>Vicia americana</i>		1					3 (2)
<i>Viola</i> sp.		3 (2)	1 (1)				

* Exotic species