Appendix 3. Canopy cover of plants in plots in the potential Deep Creek Research Natural Area.

In all of the tables in this appendix, the cover values for species are midpoints of the following cover classes:

Cover Value	Range of Canopy Cover
1	<1%
3	1% - 5%
10	5% - 15%
20	15% - 25%
30	25% - 35%
40	35% - 45%
50	45% - 55%
60	55% - 65%
70	65% - 75%
80	75% - 85%
90	85% - 95%
97	95% - 100%

$700 \approx$ g salt / Kg sol'n

800 μMhos = 0.8 mS/cm

$$\frac{0.8}{800} = \frac{8 \times 10^{-1}}{8 \times 10^{2}} = 10^{-3}$$

Table 3-1. Sample plots representing shrublands and grasslands in the potential Deep Creek RNA. Only the species with at least 1% canopy cover in one plot are shown in the table; other minor species were present in the plots but are not shown here. See the first page of Appendix 3 for a description of cover values.

Plot name in digital file	94GJ20	94GJ16	94GJ17	94GJ19	94GJ18
	10	6	Plot 7	9	8
Community Type*	Fesida-Elyspi	Arttrivas/ Stinel	Arttrivas/ Stinel	Arttrivas/ Stinel?	Arttrivas/ Fesida
Slope, deg.	8	11	10	18	15
Aspect, deg.	260	180	170	100	190
Size (m^2)	100	1200	450	250	300
Species			**Cover***		
SHRUBS (<0.5m tall)					
Amelanchier alnifolia	1	3			1
Artemisia tridentata vaseyana	1	30	30	10	40
Ceanothus velutinus		20	3	40	
Juniperus communis					3
Prunus virginiana		1	1	10	
Rosa sp.		1	1		
Symphoricarpos oreophilus	1	10	10	3	10
GRAMINOIDS					
Bromus carinatus		10	3		20
Carex geyeri			10		3
Carex rossii	1	3		1	
Elymus elymoides		1			3
Elymus spicatus	3				
Elymus trachycaulus		10	10	3	1
Festuca idahoensis	10	1			10
Koeleria macrantha	1				
Leucopoa kingii	1	1	1	1	10
Melica spectabilis		3	10	3	
Stipa nelsonii		3	1		
Stipa pinetorum		20	10	10	3
FORBS					
Achillea millefolium		1	1	1	3
Allium acuminatum		3			
Antennaria umbrinella	3				3
Arenaria congesta	10	1			3
Balsamorhiza sagittata		1		1	
Collomia linearis			3	1	
Erigeron sp.	10	1	1	1	1
Eriogonum sp.		1	3	1	10
Lupinus argenteus		1		1	10
Phlox multiflora	10				
Polygonum douglasii		1	3	3	
Selaginella densa	20				
Senecio eremophilus		1	1		
Stellaria jamesiana		3	10	3	3
Viguiera multiflora		1	1	3	1

Table 3-1 (continued). Sample plots representing shrublands and grasslands in the potential Deep Creek RNA.

*Community type acronyms:

- Fesida-Elyspi = Idaho fescue-bluebunch wheatgrass (Festuca idahoensis-Elymus spicatus)
- Arttrivas/Stinel = Mountain big sagebrush/Nelson's needlegrass (Artemisia tridentata ssp. vaseyana/Stipa nelsonii)
- Arttrivas/Fesida = Mountain big sagebrush/Idaho fescue (Artemisia tridentata ssp. vaseyana/Festuca idahoensis)

Notes

Plot 10: Plot is one patch of several on rock outcrops of ridges, in openings within mountain big sagebrush vegetation. Each patch covers up to several hundred m^2, and they merge into the sagebrush vegetation, represented by plots 6, 7, 8, and 9.

Plots 6, 7, and 8: Each plot represents one patch of several on ridges and upper slopes. Sagebrush stands merge into grass vegetation, represented by plot 10.

Plot 9: Plot represents one of several patches of shrub vegetation dominated by Ceanothus, growing on slopes. These patches merge into shrub stands dominated by mountain big sagebrush (plots 6, 7, and 8) and adjoin grassland vegetation (plot 10) more abruptly.

Table 3-2. Sample plots representing lodgepole pine stands in the potential Deep Creek RNA. See the first page of Appendix 3 for a description of cover values.

Plotname in digital file	94GJ11	Plot	94GJ12
	1		2
Community Type*	Pincon/ Vacsco		Pincon/ Vacsco
Slope, deg.	11		21
Aspect, deg.	200		320
Size (m^2)	450		375
Species	**Cover/tree height (m)**		
TREES			
Abies lasiocarpa	3/27		1/2
Pinus contorta	50/30		60/30
TALL SHRUBS (≥0.5m)			
Abies lasiocarpa saplings	3/1		
SHRUBS (<0.5m)			
Amelanchier alnifolia			1
Rosa woodsii			1
Rubus parviflorus			1
Shepherdia canadensis			1
Symphoricarpos oreophilus			1
GRAMINOIDS			
Carex geyeri	40		
Carex rossii	3		
Elymus trachycaulus			1
Poa nervosa	3		
FORBS			
Arnica cordifolia	10		10
Aster foliaceus			1
Chimaphila umbellata	1		1
Corallorrhiza striata	1		
Geranium viscosissimum	1		
Hieracium albiflorum	10		1
Lupinus argenteus	1		
Osmorhiza chilensis	1		1
Penstemon sp.	1		
Pyrola chlorantha			1
Stellaria jamesiana	10		
Vaccinium scoparium	40		80

Table 3-2 (continued). Sample plots representing lodgepole pine stands in the potential Deep Creek RNA.

*Community type acronyms

- Pincon/Vacsco = Lodgepole pine/grouse whortleberry (Pinus contorta/Vaccinium scoparium)

Notes

Plot 1: Represents part of woodland on upper slope with relatively open overstory, no shrub layer, and an understory with a relatively large amount of Carex and a relatively small amount of Vaccinium.

Plot 2: Represents part of woodland with dense overstory, a sparse shrub layer, and an understory strongly dominated by Vaccinium and with little graminoid cover.

Table 3-3. Sample plots representing quaking aspen stands in the potential Deep Creek RNA. See the first page of Appendix 3 for a description of cover values.

Plotname in digital file	94GJ13	94GJ14	94GJ15
		Plot	
	3	4	5
Community Type*	Poptre/ Cargey	Poptre/ Cargey	Poptre/ Hersph
Slope, deg.	23		6
Aspect, deg.	180	140	150
Size (m^2)	450	375	450
Species	**Cover/tree height (m)**		
TREES			
Abies lasiocarpa	40/18	3/7	
Abies lasiocarpa		10/5	10/3
Pinus contorta	3/20		
Populus tremuloides	60/20	70/25	70/40
SHRUBS (<0.5m)			
Amelanchier alnifolia	1		
Juniperus communis	1	1	
Rosa woodsii		1	
Rubus parviflorus			
Shepherdia canadensis			
Symphoricarpos oreophilus	1		
GRAMINOIDS			
Carex geyeri	60	40	
Elymus glaucus	20	20	40
Poa nervosa	1		3
FORBS			
Arnica cordifolia	1	20	
Aster foliaceus			40
Geranium viscosissimum	1		10
Lupinus argenteus		10	
Osmorhiza chilensis	3	10	1
Senecio crassulus			3
Senecio eremophilus	3		
Stellaria jamesiana	1		
Thalictrum sp.		10	

Table 3-3 (continued). Sample plots representing quaking aspen stands in the potential Deep Creek RNA.

*Community type acronyms
- Poptre/Cargey = Quaking aspen/elk sedge (Populus tremuloides/Carex geyeri)
- Poptre/Hersph = Quaking aspen/cow parsnip (Populus tremuloides/Cow parsnip)

Notes

Plot 1: Plot represents upland aspen woodland with advanced fir succession.

Plot 4: Represents upland aspen woodland on E-facing slope with little fir in the overstory but some fir in the understory.

Plot 5: Represents aspen woodland in valley bottom next to stream.