

Table S1: Variances as expressed in standard deviation (SD) for Pando understory vegetation study: a.) total data set, environmental variables; b.) management zones, environmental variables; and c.) common plant species frequency & cover.

a. Environmental Variables	Mean	SD
Elevation (m a.s.l.)	2723	23.15
Juniper cover (%)	25	19.31
Aspen Cover	23	11.57
Regeneration ha ⁻¹	671	1124.02
Browse Level	33	45.06
Recruitment ha ⁻¹	378	1474.66
Trees ha ⁻¹	429	293.76
Live Trees ha ⁻¹	337	242.20
BA Live	12	9.53
BA Dead	3	4.41
BA Dead as % Total BA	17	21.03
BA Total	15	12.89
Cattle Scat	75	308.32
Deer Scat	87	175.74
Species Richness	23	3.89
Species Evenness	1	0.01
Shannon's Species Diversity	3	0.16
Simpson's Species Diversity	1	0.01

b. Env. Variables, by Group	<u>No Fence</u>		<u>Fence 2013</u>		<u>Fence 2014</u>	
	Mean	SD	Mean	SD	Mean	SD
Elevation	2715	13.13	2705	3.28	2752	16.40
Juniper cover (%)	14	12.67	19	14.17	46	14.19
Aspen Cover	18	3.73	17	8.67	35	11.57
Regeneration ha ⁻¹	226	355.54	1643	1418.86	56	62.11
Browse Level	52	44.18	0	0.00	50	50.00
Recruitment ha ⁻¹	25	39.90	83	62.99	1134	2534.74
Trees ha ⁻¹	298	177.37	417	227.12	597	377.04
Live Trees ha ⁻¹	262	163.22	298	124.85	472	345.82
BA Live	11	6.58	9	5.69	16	13.69
BA Dead	2	3.33	2	2.02	6	5.77
BA Dead as % Total BA	10	17.81	13	16.37	29	24.17
BA Total	13	8.22	11	6.48	22	18.66
Cattle Scat	214	491.69	0	0.00	0	0.00
Deer Scat	179	261.35	0	0.00	83	68.04
Species Richness	23.00	3.63	25.43	3.29	20.67	3.20
Species Evenness	0.95	0.01	0.94	0.00	0.94	0.01
Shannon's Species Diversity	2.98	0.14	3.04	0.13	2.84	0.14
Simpson's Species Diversity	0.94	0.01	0.94	0.01	0.93	0.01

c. Common Species	Frequency	Cover	
		Mean	SD
<i>Mahonia repens</i>	20	4.5	4.95
<i>Symphoricarpos oreophilus</i>	20	3.7	8.04
<i>Populus tremuloides</i>	19	7.9	11.45
<i>Juniperus communis</i>	18	30.3	21.28
<i>Achnatheron nelsonii</i>	19	6.9	11.33
<i>Carex rossii</i>	18	1.8	1.67
<i>Cirsium clavatum</i>	18	1.8	2.14
<i>Elymus glaucus</i>	17	4.2	8.56
<i>Lupinus argenteus</i>	17	2.7	4.01
<i>Poa pratensis</i>	17	6.8	11.03
<i>Penstemon watsonii</i>	16	0.5	0.50
<i>Bromus inermis</i>	17	3.7	5.02
<i>Festuca idahoensis</i>	15	3.0	4.14
<i>Geranium richardsonii</i>	14	0.6	0.69
<i>Lithospermum multiflorum</i>	13	1.4	3.76
<i>Potentilla hippiana</i>	12	0.9	1.68
<i>Antennaria microphylla</i>	10	0.6	0.85