



Interoffice Correspondence

DATE: November 29, 2010
TO: Joe Friedlander
FROM: Jessica Unruh
SUBJECT: Vegetation Cover Sampling Methodology

On October 1, 2010, Tara Berger and I conducted a herbaceous ground cover survey using basal measurements. The multiple point quadrat method was used, with 10 evenly spaced points on the frame. The survey was conducted in the north road ditch near the culvert under the haul road in the middle of Section 18, T145N, R87W. This area was divided into four areas for the purpose of this survey, with 400 points surveyed in each area. The first set of frames was taken on the west inslope, with the first frame taken five paces west of the culvert. Thirty-nine more frames were taken as we headed west, totaling forty frames. The second set of frames was taken on the west backslope, with the first frame taken near where the west inslope frame set ended. A total of forty frames were taken five paces apart, ending approximately 200 feet west of the culvert. The backslope was very minimal immediately west and east of the culvert. The same methodology was used for the inslope and backslope areas on the east side of the culvert. All frames were combined to represent the area, for a total of 1,600 points. Total basal cover measured 77.9%. Detailed sample information and statistical analysis is attached.

**All Slopes
Coteau
2010 Basal Cover**

<i>Frame</i>	<i>Wheatgrass</i>	<i>Kentucky Bluegrass</i>	<i>Cheat Grass</i>	<i>Annual Forb</i>	<i>Rock</i>	<i>Litter</i>	<i>Bare</i>	<i>Total Cover</i>
1	2				1	2	5	5
2	2					3	5	5
3	3					2	5	5
4						5	5	5
5	1					4	5	5
6	1					7	2	8
7	1					6	3	7
8	1					6	3	7
9	1					6	3	7
10	1					7	2	8
11	2				1	6	1	9
12						10	0	10
13	1				1	6	2	8
14					2	6	2	8
15					1	5	4	6
16	1				2	3	4	6
17	1					8	1	9
18						6	4	6
19	2				2	3	3	7
20						8	2	8
21						5	5	5
22						8	2	8
23	2				1	3	4	6
24	2					5	3	7
25						6	4	6
26						5	5	5
27	2					5	3	7
28	2					4	4	6
29						8	2	8
30	2					6	2	8
31					1	7	2	8
32	1					6	3	7
33	1					6	3	7
34						9	1	9
35	2				3	4	1	9
36					1	7	2	8
37	2					6	2	8
38	2					5	3	7
39						7	3	7

40	1		6	3	7
41			7	3	7
42			7	3	7
43			7	3	7
44			8	2	8
45			8	2	8
46	1		8	1	9
47	2		5	3	7
48	1		5	4	6
49			7	3	7
50			8	2	8
51			10	0	10
52			6	4	6
53	2		5	3	7
54			8	2	8
55			7	3	7
56			4	6	4
57			8	2	8
58			10	0	10
59	2		6	2	8
60	2		8	0	10
61	2		6	2	8
62	2		6	2	8
63	4		4	2	8
64			8	2	8
65	1		5	4	6
66	2		7	1	9
67	2		6	2	8
68	2		6	2	8
69			8	2	8
70			10		10
71			10		10
72			10		10
73		1	7	2	8
74			7	3	7
75	2		6	2	8
76			7	3	7
77			8	1	9
78		1	7	2	8
79			8	2	8
80		1	7	2	8
81			1	7	2
82			1	6	3
83			2	6	2
84	2		5	3	7
85			7	3	7
86			7	3	7
87			1	8	1
88	1		1	6	2
89				8	2
90	2			6	2
91			10	0	10

92				9	1	9	
93				9	1	9	
94	2			4	2	8	
95	1			5	3	7	
96				7	1	9	
97	1			6	2	8	
98	1			7	2	8	
99				10	0	10	
100	1			7	2	8	
101	2			6	2	8	
102	1			6	2	8	
103				10	0	10	
104	1			6	3	7	
105				8	2	8	
106	2			7	1	9	
107	4			3	1	9	
108		2		8	0	10	
109	1	2		6	1	9	
110				9	1	9	
111				10	0	10	
112		1		6	2	8	
113				1	7	2	8
114				1	6	3	7
115	2			2	4	2	8
116					6	4	6
117	2				6	2	8
118	1			2	4	3	7
119				3	3	4	6
120				2	4	4	6
121					10	0	10
122					10	0	10
123					10	0	10
124		1			6	3	7
125					9	1	9
126					9	1	9
127					7	3	7
128					7	3	7
129					8	2	8
130	1				7	2	8
131	1				6	3	7
132					6	4	6
133	1				7	2	8
134	1				8	1	9
135		1			6	3	7
136	1				5	4	6
137			1		6	3	7
138			1		7	2	8
139	1				9	0	10
140	2				7	1	9
141				1	7	2	8
142	1				5	4	6
143	1				5	4	6

