

ATTACHMENT D8-2

Raw Data

Attachment D8-2 Raw Data

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Attachment D8-2 Table 1: Cover Data for the Upland Big Sagebrush Shrubland (Page 1 of 3)

Species	Cover Data (percent)																			
	Transect Number																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
COOL SEASON PERENNIAL GRASSES AND GRASSLIKE PLANTS																				
<i>Agropyron dasystachyum</i>	6	<1	<1	<1	2	<1	4	<1	<1	2	<1		<1	<1	<1	2	2	<1	<1	<1
<i>Agropyron spicatum</i>	2				<1		4			<1	<1	<1		2			<1	<1	4	
<i>Koeleria macrantha</i>																<1				
<i>Oryzopsis hymenoides</i>	<1	<1	4	4	2	<1	<1	2	<1	<1	<1	10	2	<1	<1	<1	4	2	<1	<1
<i>Poa secunda</i>	2	8	2	6	2	2	4	4	6	2	2	<1	2	4	2	<1	4	2	6	10
<i>Sitanion longifolium</i>		<1			<1	<1				<1	<1	<1	<1			<1	<1			
<i>Stipa comata</i>		<1	<1	2		4		16	4	<1	2	<1	<1	2	6	6		<1	<1	4
Sub-Total	10	8	6	12	6	6	12	22	10	4	4	10	4	8	8	8	10	4	10	14
PERENNIAL FORBS																				
<i>Allium textile</i>																<1				
<i>Arabis sp.</i>					<1															
<i>Astragalus mollissimus</i>						<1		<1	<1		<1						<1		<1	
<i>Cryptantha thrysiflora</i>																				<1
<i>Erigeron pumilus</i>	<1		<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1
<i>Hymenoxis acaulis</i>	<1																			
<i>Machaeranthera canescens</i>									<1						<1	<1				
<i>Trifolium gymnocarpon</i>															<1					
Sub-Total	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Attachment D8-2 Table 1: Cover Data for the Upland Big Sagebrush Shrubland (Page 2 of 3)

Species	Cover Data (percent)																				
	Transect Number																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
CUSHION PLANTS																					
<i>Arenaria hookeri</i>	<1		<1	2	<1	<1	<1		<1		<1	<1	<1	<1		<1	2	<1	<1		
<i>Astragalus spatulatus</i>							2											<1	<1		
<i>Eriogonum acaule</i>										<1							<1				
<i>Eriogonum ovalifolium</i>	<1	<1			<1				<1		<1	<1	<1	<1		<1	<1		<1		
<i>Haplopappus acaulis</i>				<1	<1	<1	<1	<1				<1	<1	<1		<1	<1	<1	<1	<1	
<i>Paronychia sessiliflora</i>	<1	<1	<1	<1			<1					<1	2		<1	2					
<i>Phlox hoodii</i>	<1	2	2	2	<1	6	<1	<1	2	<1	2	4	2	<1	<1	2	2	<1	4	2	
Sub-Total	<1	2	2	4	<1	6	2	<1	2	<1	2	4	2	2	<1	2	6	<1	4	2	
SEMI-SHRUBS																					
<i>Artemisia frigida</i>	<1			<1			<1						<1				<1	2			
<i>Artemisia spinescens</i>																<1					
<i>Ceratoides lanata</i>	2	4				<1	<1		2		2		<1		<1	<1	<1			<1	
<i>Leptodactylon pungens</i>			<1	<1					<1			<1	<1			<1		<1	<1		
Sub-Total	2	4	<1	<1	<1	<1	<1		2		2	<1	<1	<1	<1	<1	<1	2	<1	<1	
CACTI																					
<i>Opuntia polyacantha</i>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	2		<1	<1	<1	<1

Attachment D8-2 Table 1: Cover Data for the Upland Big Sagebrush Shrubland (Page 3 of 3)

Species	Cover Data (percent)																			
	Transect Number																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
SHRUBS																				
<i>Artemisia tridentata</i>	8	10	12	12	16	6	10	12	16	22	20	14	16	10	26	14	18	14	14	12
<i>Chrysothamnus viscidiflorus</i>	<1	<1	2	<1	2		<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1
Sub-Total	8	10	14	12	18	6	10	12	16	22	20	14	16	10	26	16	18	14	14	12
LICHENS																				
<i>Parmelia chlorochroa</i> (lichen)	<1	<1	8	2		<1	4	<1	<1	<1	<1	4	<1		<1	<1	2	<1	<1	<1
Number of Species per 100 m ²	16	13	13	15	14	14	16	12	16	13	15	15	17	15	13	19	19	17	17	13
Total Vegetation Cover	20	24	22	28	24	18	24	34	30	26	28	28	24	20	36	26	34	20	28	28
Cover by Perennial Species	20	22	20	24	24	12	22	34	28	26	26	24	22	18	36	24	28	20	24	26
Litter and Rock Combined	18	12	26	16	28	28	26	26	18	28	14	28	14	22	20	18	24	30	18	26
Litter (and Lichens)	18	12	26	16	28	28	26	26	18	28	14	28	14	22	20	18	24	30	18	26
Rock																				
Bare Soil	62	64	52	56	48	54	50	40	52	46	58	44	62	58	44	56	42	50	54	46
Total Ground Cover	38	36	48	44	52	46	50	60	48	54	42	56	38	42	56	44	58	50	46	54

Attachment D8-2 Table 2: Density Data for the Upland Big Sagebrush Shrubland (Page 1 of 1)

Species	Density Data (individuals per 50 m ²)																			
	Transect Number																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
SHRUBS																				
<i>Artemisia tridentata</i>	134	78	152	96	160	173	85	171	165	288	157	151	140	120	126	158	121	140	147	284
<i>Chrysothamnus viscidiflorus</i>	5	9	24	37	34		19	9	3	2	9	38	16	17	46	25	25	30	16	4
Total Shrubs	139	87	176	133	194	173	104	180	168	290	166	189	156	137	172	183	146	170	163	288
SEMI-SHRUBS																				
<i>Artemisia frigida</i>	6			4			5						19				1	13		
<i>Artemisia spinescens</i>																3				
<i>Ceratoides lanata</i>	27	176				5	8		88		94			12		28	2	1		26
<i>Leptodactylon pungens</i>			1	56					1			25	4			1		8	24	
Total Semi-Shrubs	33	176	1	60	0	5	13	0	89	0	94	25	23	12	0	32	3	22	24	26
CACTI																				
<i>Opuntia polyacantha</i>	2	3	3	4	3	5	2	17	7	4	5	11	1	2	9		2	3	1	6

Attachment D8-2 Table 3: Cover Data for the Lowland Big Sagebrush Shrubland (Page 1 of 5)

Species	Cover Data (percent)																			
	Transect Number																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
COOL SEASON PERENNIAL GRASSES AND GRASSLIKE PLANTS																				
<i>Agropyron dasystachyum</i>	<1	<1	<1		2	2	<1	<1	2	2	<1		8	<1	<1	<1	2	2	4	<1
<i>Agropyron spicatum</i>						2	2	2						<1	<1					
<i>Carex douglasii</i>									2	<1			2							<1
<i>Carex eleocharis</i>					<1															
<i>Elymus cinereus</i>				2						2							<1			
<i>Koeleria macrantha</i>					2				<1											
<i>Muhlenbergia richardsonis</i>										<1										
<i>Oryzopsis hymenoides</i>	2	4	<1	<1		2	4	<1				<1		2	<1		<1	<1	<1	
<i>Poa secunda</i>	2	<1	2	<1	4	2	4	2	4	<1	2		2	6	2	<1	<1	6	8	
<i>Sitanion longifolium</i>	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	4	2	<1	<1	2
<i>Stipa comata</i>	<1	2	4			<1	<1	2	2				4	<1	2				<1	
<i>Stipa lettermannii</i>				<1	4	2				4	<1				<1	2			2	<1
Sub-Total	4	6	6	2	12	10	10	6	10	8	2	0	16	8	4	6	4	8	14	2

Attachment D8-2 Table 3: Cover Data for the Lowland Big Sagebrush Shrubland (Page 2 of 5)

Species	Cover Data (percent)																			
	Transect Number																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PERENNIAL FORBS																				
<i>Allium textile</i>	<1		<1					<1											<1	
<i>Antennaria rosea</i>					<1			<1												
<i>Arabis sp.</i>		<1	<1			<1		<1		<1			<1						<1	
<i>Crepis occidentalis</i>					<1															
<i>Senecio integerrimus</i>																				<1
<i>Trifolium gymnocarpon</i>					<1				<1	<1	2			<1						<1
Sub-Total	<1	<1	<1	0	<1	<1	0	<1	<1	<1	2	0	<1	<1	0	0	0	0	<1	<1
CUSHION PLANTS																				
<i>Arenaria hookeri</i>									<1											
<i>Eriogonum acaule</i>					<1		<1	<1	<1						2					
<i>Eriogonum ovalifolium</i>							<1													
<i>Phlox hoodii</i>		<1	<1			<1	<1	<1						<1	<1					
Sub-Total	0	<1	<1	0	<1	<1	<1	<1	<1	<1	0	0	0	0	<1	2	0	0	0	0

Attachment D8-2 Table 3: Cover Data for the Lowland Big Sagebrush Shrubland (Page 3 of 5)

Species	Cover Data (percent)																			
	Transect Number																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ANNUAL FORBS																				
<i>Alyssum desertorum</i>	2												<1			<1			2	
<i>Chenopodium album</i>																	<1	<1		
<i>Chenopodium leptophyllum</i>	<1												<1							
<i>Cordylanthus ramosus</i>		<1	<1		4	4	2	<1		<1	2	<1	<1	<1	<1	<1	2	<1	<1	<1
<i>Cryptantha minima</i>				<1									<1			<1				<1
<i>Descurainia pinnata</i>	<1											<1	<1			<1	<1			
<i>Gayophytum ramosissimum</i>				<1	<1				<1	<1	2	<1	<1			<1	2			<1
<i>Microsteris micrantha</i>													<1							
<i>Navarettia breweri</i>					<1				<1											
<i>Polygonum sawatchense</i>					<1						<1									
Sub-Total	2	<1	<1	<1	4	4	2	<1	<1	<1	4	<1	<1	<1	<1	<1	4	<1	2	<1
SEMI-SHRUBS																				
<i>Ceratoides lanata</i>			<1																<1	<1
<i>Leptodactylon pungens</i>					<1		<1	<1	<1		<1			<1	<1					
Sub-Total	0	0	<1	0	<1	0	<1	<1	<1	0	<1	0	0	<1	<1			<1	<1	0

Attachment D8-2 Table 3: Cover Data for the Lowland Big Sagebrush Shrubland (Page 4 of 5)

Species	Cover Data (percent)																			
	Transect Number																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CACTI																				
<i>Opuntia polyacantha</i>	<1	<1	<1			<1	2	<1					<1		<1			<1	<1	
SHRUBS																				
<i>Artemisia tridentata</i>	36	34	38	32	38	36	22	32	10	30	30	44	22	22	34	40	28	32	10	48
<i>Chrysothamnus nauseosus</i>						<1		<1	<1	<1							2	2	6	
<i>Chrysothamnus viscidiflorus</i>	<1	<1	<1	4	<1	2	<1	<1		6	18	<1	6	2	2	<1	4	16	6	2
Sub-Total	36	34	38	36	38	38	22	32	10	36	48	44	28	24	36	40	34	50	22	50
LICHENS																				
<i>Parmelia chlorochroa</i> (lichen)			2				<1													

Attachment D8-2 Table 3: Cover Data for the Lowland Big Sagebrush Shrubland (Page 5 of 5)

Species	Cover Data (percent)																			
	Transect Number																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Number of Species per 100 m ²	12	11	14	9	17	14	15	16	14	14	11	7	16	12	14	11	12	11	15	11
Total Vegetation Cover	42	40	44	38	54	52	36	38	20	44	56	44	44	32	42	46	42	58	38	52
Cover by Perennial Species	40	40	44	38	50	48	34	38	20	44	52	44	44	32	42	46	38	58	36	52
Litter and Rock Combined	32	30	30	60	32	32	18	26	12	44	32	50	38	30	24	52	36	22	44	32
Litter (and lichens)	32	30	30	60	32	32	18	26	12	44	32	50	38	30	24	52	36	22	44	32
Rock																				
Bare Soil	26	30	26	2	14	16	46	36	68	12	12	6	18	38	34	2	22	20	18	16
Total Ground Cover	74	70	74	98	86	84	54	64	32	88	88	94	82	62	66	98	78	80	82	84

Attachment D8-2 Table 4: Density Data for the Lowland Big Sagebrush Shrubland (Page 1 of 1)

Species	Density Data (individuals per 50 m ²)																			
	Transect Number																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
SHRUBS																				
<i>Artemisia tridentata</i>	284	226	222	104	225	261	189	207	141	109	176	126	132	189	357	119	131	122	135	106
<i>Chrysothamnus nauseosus</i>						4		7	9	2							1	1	3	
<i>Chrysothamnus viscidiflorus</i>	11	2	1	28	4	45	14	18		57	96	13	57	20	4	21	43	91	94	21
Total Shrubs	295	228	223	132	229	310	203	232	150	168	272	139	189	209	361	140	175	214	232	127
SEMI-SHRUBS																				
<i>Ceratoides lanata</i>			1															1	1	
<i>Leptodactylon pungens</i>					5		5	10	19		2			12	2					
Total Semi-Shrubs	0	0	1	0	5	0	5	10	19	0	2	0	0	12	2	0	0	1	1	0
CACTI																				
<i>Opuntia polyacantha</i>	5	7	27			2	18	2					1		3			3	1	