

**Table A-1. Cover Data - Bond Release Block 6, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2022**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^b (%)	FREQUENCY ^a (%)
NATIVE ANNUAL AND BIENNIAL FORBS					
<i>Collinsia parviflora</i>	0.34	0.71	0.41	0.77	50.00
<i>Collomia linearis</i>	0.03	0.06	0.03	0.06	37.50
<i>Descurainia pinnata</i>	0.00	0.00	0.00	0.00	6.25
<i>Epilobium brachycarpum</i>	0.84	1.73	0.97	1.84	78.13
<i>Erigeron divergens</i>	0.00	0.00	0.00	0.00	3.13
<i>Grindelia squarrosa</i>	0.81	1.67	0.97	1.84	71.88
<i>Lupinus brevicaulis</i>	0.00	0.00	0.00	0.00	3.13
<i>Microsteris gracilis</i> ssp. <i>humilis</i>	0.03	0.06	0.03	0.06	18.75
<i>Orthocarpus luteus</i>	0.03	0.06	0.03	0.06	3.13
<i>Plantago elongata</i>	0.00	0.00	0.00	0.00	3.13
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	2.1	4.3	2.4	4.6	100.0
INTRODUCED ANNUAL AND BIENNIAL FORBS					
<i>Alyssum alyssoides</i>	0.22	0.45	0.25	0.47	46.88
<i>Alyssum desertorum</i>	0.16	0.32	0.19	0.36	50.00
<i>Alyssum parviflorum</i>	0.09	0.19	0.09	0.18	21.88
<i>Bassia sieversiana</i>	0.00	0.00	0.00	0.00	3.13
<i>Camelina microcarpa</i>	0.09	0.19	0.09	0.18	9.38
<i>Carduus nutans</i> ssp. <i>macrolepis</i>	0.00	0.00	0.00	0.00	3.13
<i>Cynoglossum officinale</i>	0.47	0.96	0.47	0.89	53.13
<i>Lactuca serriola</i>	1.38	2.82	1.66	3.15	81.25
<i>Lappula redowskii</i>	0.00	0.00	0.00	0.00	3.13
<i>Lepidium perfoliatum</i>	0.03	0.06	0.03	0.06	25.00
<i>Madia glomerata</i>	0.06	0.13	0.06	0.12	3.13
<i>Melilotus officinalis</i>	0.69	1.41	0.84	1.60	43.75
<i>Pocilla biloba</i>	0.41	0.83	0.41	0.77	78.13
<i>Sisymbrium altissimum</i>	0.00	0.00	0.00	0.00	9.38
<i>Thlaspi arvense</i>	0.00	0.00	0.00	0.00	25.00
<i>Tragopogon dubius</i> ssp. <i>major</i>	1.03	2.12	1.09	2.08	87.50
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	4.6	9.5	5.2	9.9	100.0
INTRODUCED ANNUAL GRASSES					
<i>Bromus arvensis</i>	1.16	2.37	1.25	2.37	81.25
<i>Bromus tectorum</i>	0.03	0.06	0.03	0.06	6.25
<i>Poa bulbosa</i>	0.44	0.90	0.50	0.95	21.88
TOTAL INTRODUCED ANNUAL GRASSES	1.6	3.3	1.8	3.4	84.4
NATIVE PERENNIAL FORBS					
<i>Achillea millefolium</i>	1.41	2.88	1.53	2.91	87.50
<i>Agoseris glauca</i>	1.41	2.88	1.47	2.79	56.25
<i>Allium textile</i>	0.00	0.00	0.00	0.00	15.63
<i>Artemisia ludoviciana</i>	0.00	0.00	0.00	0.00	3.13
<i>Astragalus bisulcatus</i>	0.00	0.00	0.00	0.00	6.25
<i>Astragalus miser</i> var. <i>oblongifolius</i>	0.09	0.19	0.13	0.24	12.50
<i>Balsamorhiza sagittata</i>	0.09	0.19	0.09	0.18	31.25
<i>Cirsium eatonii</i>	0.00	0.00	0.00	0.00	6.25
<i>Gaura coccinea</i>	0.00	0.00	0.00	0.00	3.13
<i>Helianthella uniflora</i>	0.00	0.00	0.00	0.00	9.38
<i>Helimeris multiflora</i>	0.00	0.00	0.03	0.06	9.38
<i>Heterotheca villosa</i>	0.00	0.00	0.00	0.00	6.25
<i>Linum lewisii</i>	0.16	0.32	0.16	0.30	71.88
<i>Lithospermum ruderales</i>	0.00	0.00	0.00	0.00	3.13
<i>Lupinus argenteus</i>	0.00	0.00	0.00	0.00	3.13
<i>Lupinus caudatus</i>	0.00	0.00	0.00	0.00	3.13
<i>Machaeranthera canescens</i>	0.00	0.00	0.00	0.00	6.25
<i>Penstemon</i> sp.	0.03	0.06	0.06	0.12	43.75
<i>Penstemon strictus</i>	0.00	0.00	0.00	0.00	6.25

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

**Table A-1. Cover Data - Bond Release Block 6, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2022**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^b (%)	FREQUENCY ^a (%)
NATIVE PERENNIAL FORBS (Cont'd)					
<i>Perideridia gairdneri</i> ssp. borealis	0.06	0.13	0.06	0.12	18.75
<i>Phlox longifolia</i>	0.03	0.06	0.03	0.06	3.13
<i>Senecio</i> sp.	0.00	0.00	0.00	0.00	3.13
<i>Symphyotrichum ascendens</i>	0.69	1.41	0.84	1.60	18.75
<i>Vicia americana</i>	0.03	0.06	0.03	0.06	12.50
<i>Virgulus falcatus</i>	0.00	0.00	0.00	0.00	3.13
<i>Wyethia amplexicaulis</i>	0.03	0.06	0.03	0.06	3.13
TOTAL NATIVE PERENNIAL FORBS	4.0	8.3	4.5	8.5	96.9
INTRODUCED PERENNIAL FORBS					
<i>Astragalus cicer</i>	0.22	0.45	0.25	0.47	15.63
<i>Cirsium arvense</i>	0.13	0.26	0.16	0.30	31.25
<i>Convolvulus arvensis</i>	0.22	0.45	0.22	0.42	3.13
<i>Medicago sativa</i>	9.00	18.46	9.53	18.10	87.50
<i>Rumex crispus</i>	0.00	0.00	0.00	0.00	6.25
<i>Taraxacum officinale</i>	0.16	0.32	0.16	0.30	59.38
TOTAL INTRODUCED PERENNIAL FORBS	9.7	19.9	10.3	19.6	96.9
NATIVE PERENNIAL GRASSES (c)					
<i>Achnatherum lettermanii</i>	0.03	0.06	0.03	0.06	3.13
<i>Bromelica bulbosa</i>	0.03	0.06	0.03	0.06	3.13
<i>Bromus carinatus</i> var. marginatus	0.03	0.06	0.03	0.06	3.13
<i>Elymus elymoides</i>	0.00	0.00	0.00	0.00	9.38
<i>Elymus glaucus</i>	0.00	0.00	0.00	0.00	3.13
<i>Elymus lanceolatus</i> sp. lanceolatus	0.72	1.47	0.75	1.42	43.75
<i>Elymus lanceolatus</i> fm. albicans	0.00	0.00	0.00	0.00	6.25
<i>Elymus trachycaulus</i>	0.00	0.00	0.00	0.00	6.25
<i>Koeleria macrantha</i>	0.06	0.13	0.06	0.12	12.50
<i>Leymus cinereus</i>	0.59	1.22	0.63	1.19	56.25
<i>Nassella viridula</i>	0.22	0.45	0.22	0.42	37.50
<i>Pascopyrum smithii</i>	8.66	17.76	9.13	17.33	93.75
<i>Poa compressa</i>	0.06	0.13	0.06	0.12	15.63
<i>Poa secunda</i>	0.13	0.26	0.13	0.24	9.38
<i>Poa secunda</i> ssp. juncifolia	0.03	0.06	0.03	0.06	6.25
<i>Pseudoroegneria spicata</i> ssp. inermis	0.41	0.83	0.53	1.01	28.13
<i>Pseudoroegneria spicata</i> ssp. spicata	0.25	0.51	0.25	0.47	25.00
TOTAL NATIVE PERENNIAL GRASSES (c)	11.2	23.0	11.9	22.6	96.9
INTRODUCED PERENNIAL GRASSES (C)					
<i>Agrostis gigantea</i>	0.00	0.00	0.00	0.00	6.25
<i>Alopecurus pratensis</i>	0.06	0.13	0.06	0.12	6.25
<i>Bromopsis inermis</i>	2.34	4.81	2.50	4.75	56.25
<i>Dactylis glomerata</i>	0.06	0.13	0.06	0.12	18.75
<i>Festuca ovina</i>	1.13	2.31	1.22	2.31	50.00
<i>Phleum pratense</i>	0.00	0.00	0.00	0.00	12.50
<i>Poa pratensis</i> ssp. pratensis	0.13	0.26	0.16	0.30	31.25
<i>Thinopyrum intermedium</i>	7.34	15.06	7.91	15.01	75.00
TOTAL INTRODUCED PERENNIAL GRASSES (c)	11.1	22.7	11.9	22.6	100.0
NATIVE SHRUBS					
<i>Artemisia cana</i>	0.63	1.28	0.66	1.25	9.38
<i>Artemisia tridentata</i>	1.16	2.37	1.38	2.61	81.25
<i>Chrysothamnus viscidiflorus</i>	0.00	0.00	0.00	0.00	3.13
<i>Ericameria nauseosa</i>	2.47	5.06	2.50	4.75	31.25
<i>Purshia tridentata</i>	0.13	0.26	0.13	0.24	21.88
<i>Rosa woodsii</i>	0.00	0.00	0.00	0.00	3.13
<i>Symphoricarpos rotundifolius</i>	0.00	0.00	0.03	0.06	12.50
TOTAL NATIVE SHRUBS	4.4	9.0	4.7	8.9	93.8

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
Standing Dead	1.66		1.66		
Litter	27.44		27.44		
Bare Ground (Soil)	18.16		18.16		
Rock	4.00		4.00		
TOTALS	100		104		
TOTAL VEGETATION COVER	48.8		52.7		
<i>Standard Deviation</i>	11.022		12.220		
GROUND COVER (Litter+Rock+Veg+St.Dead)	81.8		85.8		
<i>Standard Deviation</i>	10.324		10.815		
SPECIES DENSITY (# of species/100 sq.m.)	23.6				
<i>Standard Deviation</i>	4.301				

^a First Hit Cover = Absolute percent cover in vertical view with no account of plants obscured by first (i.e. top) hit.

^b First Hit Relative Cover = Percent of the First Hit vegetation cover comprised of this species or lifeform

^c All Hit Cover = Absolute percent cover in vertical view accounting for all cover by the species or lifeform, whether over-arched by other plants or not

^d All Hit Relative Cover = Percent of the All Hit vegetation cover comprised of the species or lifeform

^e Frequency = Percent of the samples in which a species or lifeform occurred

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE ANNUAL AND BIENNIAL FORBS									
Collinsia parviflora				P					2(1)
Collomia linearis		P							
Descurainia pinnata									
Epilobium brachycarpum	1	1	P	(1)		1	P	2	P
Erigeron divergens									
Grindelia squarrosa		2(1)	P	1	2	P	1	P	P
Lupinus brevicaulis									
Microsteris gracilis ssp. humilis									1
Orthocarpus luteus									
Plantago elongata									
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	1	3(1)	P	1(1)	2	1	1	2	3(1)
INTRODUCED ANNUAL AND BIENNIAL FORBS									
Alyssum alyssoides		P	P		1	P			
Alyssum desertorum	P			1		P		P	P
Alyssum parviflorum				P		P			
Bassia sieversiana						P			
Camelina microcarpa									
Carduus nutans ssp. macrolepis									
Cynoglossum officinale	P	P	1			P	P	P	2
Lactuca serriola	2	2	P		P	6(1)	15(4)	P	P
Lappula redowskii									
Lepidium perfoliatum						P			1
Madia glomerata									
Melilotus officinalis			6(1)	3	P				1(1)
Pocilla biloba	P	3	P	P	P		P	P	1
Sisymbrium altissimum	P								
Thlaspi arvense	P	P						P	
Tragopogon dubius ssp. major	2	P	4	P	1	P		P	2
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	4	5	11(1)	4	2	6(1)	15(4)	P	7(1)
INTRODUCED ANNUAL GRASSES									
Bromus arvensis	P		2	(1)		3			P
Bromus tectorum									
Poa bulbosa									4
TOTAL INTRODUCED ANNUAL GRASSES	P		2	(1)		3			4
NATIVE PERENNIAL FORBS									
Achillea millefolium	2	3	2(1)	2	2	P		P	4
Agoseris glauca	13	P	P					1	2(1)
Allium textile									
Artemisia ludoviciana					P				
Astragalus bisulcatus									
Astragalus miser var. oblongifolius					(1)				
Balsamorhiza sagittata				P				P	P
Cirsium eatonii									
Gaura coccinea									
Helianthella uniflora									
Helioeris multiflora			P						
Heterotheca villosa									P
Linum lewisii	P		P	1					1
Lithospermum ruderales									
Lupinus argenteus									
Lupinus caudatus									
Machaeranthera canescens			P						
Penstemon sp.	P		P			P		P	P
Penstemon strictus									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE PERENNIAL FORBS (Cont'd)									
Perideridia gairdneri ssp. borealis								P	
Phlox longifolia									
Senecio sp.									
Symphyotrichum ascendens				1	17(4)	P			
Vicia americana	P								P
Virgulus falcatus									
Wyethia amplexicaulis									
TOTAL NATIVE PERENNIAL FORBS	15	3	2(1)	4	19(5)	P		1	7(1)
INTRODUCED PERENNIAL FORBS									
Astragalus cicer									2
Cirsium arvense		P		P		1	P	P	P
Convolvulus arvensis									
Medicago sativa	4	P	27(1)		5		P	2	3
Rumex crispus					P				
Taraxacum officinale	1	P		P		P		P	1
TOTAL INTRODUCED PERENNIAL FORBS	5	P	27(1)	P	5	1	P	2	6
NATIVE PERENNIAL GRASSES (c)									
Achnatherum lettermanii									
Bromelica bulbosa									
Bromus carinatus var. marginatus									
Elymus elymoides									
Elymus glaucus	P								
Elymus lanceolatus sp. lanceolatus				4		1			
Elymus lanceolatus fm. albicans									
Elymus trachycaulus							P		
Koeleria macrantha									
Leymus cinereus	P	2	(1)		P		P	1	
Nassella viridula		P			1	2			P
Pascopyrum smithii	18	27(1)	12	1	P	6(1)	30	7	7
Poa compressa	P								
Poa secunda					1				
Poa secunda ssp. juncifolia	P						1		
Pseudoroegneria spicata ssp. inermis						1			
Pseudoroegneria spicata ssp. spicata									
TOTAL NATIVE PERENNIAL GRASSES (c)	18	29(1)	12(1)	5	2	10(1)	31	8	7
INTRODUCED PERENNIAL GRASSES (C)									
Agrostis gigantea		P							
Alopecurus pratensis		P							
Bromopsis inermis	1		P	8	P	2		2	
Dactylis glomerata	1	P							1
Festuca ovina	P		P		10		P	10(1)	
Phleum pratense		P							
Poa pratensis ssp. pratensis		P			P		P		P
Thinopyrum intermedium	3		11		14(2)	5		29	1
TOTAL INTRODUCED PERENNIAL GRASSES (c)	5	P	11	8	24(2)	7	P	41(1)	2
NATIVE SHRUBS									
Artemisia cana		4							
Artemisia tridentata		1	P	2		1	(1)		P
Chrysothamnus viscidiflorus									
Ericameria nauseosa				18		2			
Purshia tridentata	P				P				3
Rosa woodsii									
Symphoricarpos rotundifolius		P							
TOTAL NATIVE SHRUBS	P	5	P	20	P	3	(1)		3

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

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PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
Standing Dead	3	2	2			1		6	1
Litter	39	28	20	30	28	16	8	36	33
Bare Ground (Soil)	10	24	9	10	13	40	42	4	24
Rock		1	4	18	5	12	3		3
TOTALS	100	100(2)	100(4)	100(2)	100(7)	100(2)	100(5)	100(1)	100(3)
TOTAL VEGETATION COVER	48	45(2)	65(4)	42(2)	54(7)	31(2)	47(5)	54(1)	39(3)
<i>Standard Deviation</i>									
GROUND COVER (Litter+Rock+Veg+St.Dead)	90	76(2)	91(4)	90(2)	87(7)	60(2)	58(5)	96(1)	76(3)
<i>Standard Deviation</i>									
SPECIES DENSITY (# of species/100 sq.m.)	26	25	22	20	21	24	14	21	31
<i>Standard Deviation</i>									

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PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	10	11	12	13	14	15	16	17	18
NATIVE ANNUAL AND BIENNIAL FORBS									
Collinsia parviflora	1	P			P	P	P	1	1
Collomia linearis		P				P		P	P
Descurainia pinnata									
Epilobium brachycarpum		3	1	P	1	4		7(2)	
Erigeron divergens									
Grindelia squarrosa	2	2	1		1	P	P		1(1)
Lupinus brevicaulis									
Microsteris gracilis ssp. humilis		P				P			
Orthocarpus luteus									
Plantago elongata	P								
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	3	5	2	P	2	4	P	8(2)	2(1)
INTRODUCED ANNUAL AND BIENNIAL FORBS									
Alyssum alyssoides	2	1	2			P	(1)		
Alyssum desertorum	P		P		P		3		P
Alyssum parviflorum	P								P
Bassia sieversiana									
Camelina microcarpa			2					1	P
Carduus nutans ssp. macrolepis									
Cynoglossum officinale			P	2				P	
Lactuca serriola	P	9(1)	P	P	P	P		P	P
Lappula redowskii									
Lepidium perfoliatum									P
Madia glomerata								2	
Melilotus officinalis			P	P		P		4(1)	
Pocilla biloba	1			P	P	P	P	P	P
Sisymbrium altissimum									
Thlaspi arvense		P				P			
Tragopogon dubius ssp. major		P	2		P	P	1	1	1
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	3	10(1)	6	2	P	P	4(1)	8(1)	1
INTRODUCED ANNUAL GRASSES									
Bromus arvensis	2	3	4	1	P	1	1	1	
Bromus tectorum									
Poa bulbosa				2				(1)	
TOTAL INTRODUCED ANNUAL GRASSES	2	3	4	3	P	1	1	1(1)	
NATIVE PERENNIAL FORBS									
Achillea millefolium	7	3	P	P	2(1)	P	1	P	P
Agoseris glauca	P		10		P	P	4	P	3
Allium textile		P	P			P			
Artemisia ludoviciana									
Astragalus bisulcatus									
Astragalus miser var. oblongifolius		2						P	
Balsamorhiza sagittata				1				P	P
Cirsium eatonii		P							
Gaura coccinea									
Helianthella uniflora		P			P				
Helioeris multiflora								(1)	
Heterotheca villosa	P								
Linum lewisii	P		1	P	1	P	P		P
Lithospermum ruderales									
Lupinus argenteus									
Lupinus caudatus									
Machaeranthera canescens									
Penstemon sp.					1			P	
Penstemon strictus			P			P			

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()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	10	11	12	13	14	15	16	17	18
NATIVE PERENNIAL FORBS (Cont'd)									
<i>Perideridia gairdneri</i> ssp. borealis		2		P				P	
<i>Phlox longifolia</i>		1							
<i>Senecio</i> sp.						P			
<i>Symphyotrichum ascendens</i>		3(1)							
<i>Vicia americana</i>									
<i>Virgulus falcatus</i>						P			
<i>Wyethia amplexicaulis</i>		1							
TOTAL NATIVE PERENNIAL FORBS	7	12(1)	11	1	4(1)	P	5	(1)	3
INTRODUCED PERENNIAL FORBS									
<i>Astragalus cicer</i>				4(1)				P	
<i>Cirsium arvense</i>				2(1)					
<i>Convolvulus arvensis</i>	7								
<i>Medicago sativa</i>	4	2	2	7(3)	4	11(1)	45(2)	19(1)	29(3)
<i>Rumex crispus</i>									
<i>Taraxacum officinale</i>	1	P			1	P		P	
TOTAL INTRODUCED PERENNIAL FORBS	12	2	2	13(5)	5	11(1)	45(2)	19(1)	29(3)
NATIVE PERENNIAL GRASSES (c)									
<i>Achnatherum lettermanii</i>									
<i>Bromelica bulbosa</i>		1							
<i>Bromus carinatus</i> var. marginatus	1								
<i>Elymus elymoides</i>									
<i>Elymus glaucus</i>									
<i>Elymus lanceolatus</i> sp. lanceolatus	4			P			1	P	P
<i>Elymus lanceolatus</i> fm. albicans					P				
<i>Elymus trachycaulus</i>									
<i>Koeleria macrantha</i>		2							
<i>Leymus cinereus</i>				1		P			
<i>Nassella viridula</i>	1	P		P	P				
<i>Pascopyrum smithii</i>	P	8(1)	4(3)	1	5	10	1(1)	8(2)	3(1)
<i>Poa compressa</i>								1	
<i>Poa secunda</i>									
<i>Poa secunda</i> ssp. juncifolia									
<i>Pseudoroegneria spicata</i> ssp. inermis	5			(2)				1	P
<i>Pseudoroegneria spicata</i> ssp. spicata					3				
TOTAL NATIVE PERENNIAL GRASSES (c)	11	11(1)	4(3)	2(2)	8	10	2(1)	10(2)	3(1)
INTRODUCED PERENNIAL GRASSES (C)									
<i>Agrostis gigantea</i>									
<i>Alopecurus pratensis</i>									
<i>Bromopsis inermis</i>	10(1)			3	6			3	
<i>Dactylis glomerata</i>					P		P		
<i>Festuca ovina</i>		1	P			P	1	10(2)	P
<i>Phleum pratense</i>					P				
<i>Poa pratensis</i> ssp. pratensis								1(1)	
<i>Thinopyrum intermedium</i>		20	14(2)	24(5)	P	1(2)	4	7	4(1)
TOTAL INTRODUCED PERENNIAL GRASSES (c)	10(1)	21	14(2)	27(5)	6	1(2)	5	21(3)	4(1)
NATIVE SHRUBS									
<i>Artemisia cana</i>									10(1)
<i>Artemisia tridentata</i>		2	P	1	P	P	5(2)	1	1
<i>Chrysothamnus viscidiflorus</i>									
<i>Ericameria nauseosa</i>	1			1	P				
<i>Purshia tridentata</i>				P				P	
<i>Rosa woodsii</i>									
<i>Symphoricarpos rotundifolius</i>						P	P		
TOTAL NATIVE SHRUBS	1	2	P	2	P	0	5(2)	1	11(1)

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	10	11	12	13	14	15	16	17	18
Standing Dead			4	4		1		4	3
Litter	32	27	32	35	53	29	18	16	21
Bare Ground (Soil)	11	7	21	8	18	39	14	12	18
Rock	8			3	4	4	1		5
TOTALS	100(1)	100(3)	100(5)	100(12)	100(1)	100(3)	100(6)	100(11)	100(7)
TOTAL VEGETATION COVER	49(1)	66(3)	43(5)	50(12)	25(1)	27(3)	67(6)	68(11)	53(7)
<i>Standard Deviation</i>									
GROUND COVER (Litter+Rock+Veg+St.Dead)	89(1)	93(3)	79(5)	92(12)	82(1)	61(3)	86(6)	88(11)	82(7)
<i>Standard Deviation</i>									
SPECIES DENSITY (# of species/100 sq.m.)	23	28	20	24	25	27	18	32	22
<i>Standard Deviation</i>									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---									
	19	20	21	22	23	24	25	26	27	
NATIVE ANNUAL AND BIENNIAL FORBS										
Collinsia parviflora	1			1(1)					1	
Collomia linearis	P			P		P	1			
Descurainia pinnata							P			
Epilobium brachycarpum	P	1	P	P		1		1(1)	P	
Erigeron divergens		P								
Grindelia squarrosa		P	1		P			4(3)	P	
Lupinus brevicaulis							P			
Microsteris gracilis ssp. humilis	P		P							
Orthocarpus luteus								1		
Plantago elongata										
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	1	1	1	1(1)	P	1	1	6(4)	1	
INTRODUCED ANNUAL AND BIENNIAL FORBS										
Alyssum alyssoides	P	P	P		P			1		
Alyssum desertorum		P	P			P				
Alyssum parviflorum	P			3						
Bassia sieversiana										
Camelina microcarpa										
Carduus nutans ssp. macrolepis			P							
Cynoglossum officinale		P	2			P		1		
Lactuca serriola			2(2)	2(1)	P	P	P	P	P	
Lappula redowskii										
Lepidium perfoliatum						P			P	
Madia glomerata										
Melilotus officinalis	P	1						1	P	
Pocilla biloba		P	P	P			1	3	2	
Sisymbrium altissimum				P						
Thlaspi arvense				P			P		P	
Tragopogon dubius ssp. major	1	P	1	P	1		P	1	1	
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	1	1	5(2)	5(1)	1	P	1	7	3	
INTRODUCED ANNUAL GRASSES										
Bromus arvensis	2	(1)	1	P	P	2	2		1	
Bromus tectorum						1				
Poa bulbosa						P		1		
TOTAL INTRODUCED ANNUAL GRASSES	2	(1)	1	P	P	3	2	1	1	
NATIVE PERENNIAL FORBS										
Achillea millefolium	P	P	2		P	1(1)			P	
Agoseris glauca		P	P			8			3	
Allium textile	P						P			
Artemisia ludoviciana										
Astragalus bisulcatus									P	
Astragalus miser var. oblongifolius							1			
Balsamorhiza sagittata					P					
Cirsium eatonii							P			
Gaura coccinea										
Helianthella uniflora										
Heliomeris multiflora				P						
Heterotheca villosa										
Linum lewisii	P	P	1		P	P	P	P	P	
Lithospermum ruderales							P			
Lupinus argenteus			P							
Lupinus caudatus							P			
Machaeranthera canescens		P								
Penstemon sp.		P	P		P	P				
Penstemon strictus										

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()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	19	20	21	22	23	24	25	26	27
NATIVE PERENNIAL FORBS (Cont'd)									
Perideridia gairdneri ssp. borealis				P			P		
Phlox longifolia									
Senecio sp.									
Symphyotrichum ascendens						P	1		
Vicia americana							1		
Virgulus falcatus									
Wyethia amplexicaulis									
TOTAL NATIVE PERENNIAL FORBS	P	P	3	P	P	9(1)	3	P	3
INTRODUCED PERENNIAL FORBS									
Astragalus cicer			P				1		
Cirsium arvense			P	P	1				
Convolvulus arvensis									
Medicago sativa	19(2)	2		1	P	12(1)	P		19
Rumex crispus									
Taraxacum officinale			P			P			P
TOTAL INTRODUCED PERENNIAL FORBS	19(2)	2	P	1	1	12(1)	1		19
NATIVE PERENNIAL GRASSES (c)									
Achnatherum lettermanii									
Bromelica bulbosa									
Bromus carinatus var. marginatus									
Elymus elymoides			P					P	
Elymus glaucus									
Elymus lanceolatus sp. lanceolatus	3(1)		1			4			P
Elymus lanceolatus fm. albicans		P							
Elymus trachycaulus								P	
Koeleria macrantha						P	P	P	
Leymus cinereus	P		P		3	1		P	2
Nassella viridula		1							1
Pascopyrum smithii	9(1)	2	33(1)		3	5	28	18(2)	7
Poa compressa						P			
Poa secunda	P						3		
Poa secunda ssp. juncifolia									
Pseudoroegneria spicata ssp. inermis			P			2(1)			
Pseudoroegneria spicata ssp. spicata	1	2	1			1			
TOTAL NATIVE PERENNIAL GRASSES (c)	13(2)	5	35(1)		6	13(1)	31	18(2)	10
INTRODUCED PERENNIAL GRASSES (C)									
Agrostis gigantea								P	
Alopecurus pratensis								2	
Bromopsis inermis		2	2		26(3)	1			
Dactylis glomerata		P							
Festuca ovina		1				P	P		3
Phleum pratense		P	P						
Poa pratensis ssp. pratensis	1					P	P	1	
Thinopyrum intermedium	6(3)			56(2)	4	9			1
TOTAL INTRODUCED PERENNIAL GRASSES (c)	7(3)	3	2	56(2)	30(3)	10	P	3	4
NATIVE SHRUBS									
Artemisia cana									6
Artemisia tridentata	2	P			6(2)	3(1)	4(1)	1	P
Chrysothamnus viscidiflorus									P
Ericameria nauseosa		24	P		6				
Purshia tridentata			1						
Rosa woodsii								P	
Symphoricarpos rotundifolius							(1)		
TOTAL NATIVE SHRUBS	2	24	1		12(2)	3(1)	4(2)	1	6

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	19	20	21	22	23	24	25	26	27
Standing Dead			1		5	2		1	3
Litter	29	33	39	23	22	34	42	24	15
Bare Ground (Soil)	26	14	8	14	17	13	15	33	35
Rock		17	4		6			6	
TOTALS	100(7)	100(1)	100(3)	100(4)	100(5)	100(4)	100(2)	100(6)	100
TOTAL VEGETATION COVER	45(7)	36(1)	48(3)	63(4)	50(5)	51(4)	43(2)	36(6)	47
<i>Standard Deviation</i>									
GROUND COVER (Litter+Rock+Veg+St.Dead)	74(7)	86(1)	92(3)	86(4)	83(5)	87(4)	85(2)	67(6)	65
<i>Standard Deviation</i>									
SPECIES DENSITY (# of species/100 sq.m.)	21	26	29	15	17	28	26	21	25
<i>Standard Deviation</i>									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---				
	28	29	30	31	32
NATIVE ANNUAL AND BIENNIAL FORBS					
Collinsia parviflora	P	1		2	P
Collomia linearis	P	P	P		
Descurainia pinnata				P	
Epilobium brachycarpum	1	1		P	1
Erigeron divergens					
Grindelia squarrosa			2	2	4
Lupinus brevicaulis					
Microsteris gracilis ssp. humilis		P			
Orthocarpus luteus					
Plantago elongata					
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	1	2	2	4	5
INTRODUCED ANNUAL AND BIENNIAL FORBS					
Alyssum alyssoides					P
Alyssum desertorum		1(1)	P		P
Alyssum parviflorum			P		
Bassia sieversiana					
Camelina microcarpa					
Carduus nutans ssp. macrolepis					
Cynoglossum officinale	7		P	P	
Lactuca serriola	5			1	P
Lappula redowskii	P				
Lepidium perfoliatum		P	P	P	
Madia glomerata					
Melilotus officinalis	1			5(2)	
Pocilla biloba		P	1	1	P
Sisymbrium altissimum				P	
Thlaspi arvense					
Tragopogon dubius ssp. major	2	6(1)	1	1	4(1)
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	15	7(2)	2	8(2)	4(1)
INTRODUCED ANNUAL GRASSES					
Bromus arvensis	1	1	1	3(1)	5
Bromus tectorum					P
Poa bulbosa		7(1)	P		
TOTAL INTRODUCED ANNUAL GRASSES	1	8(1)	1	3(1)	5
NATIVE PERENNIAL FORBS					
Achillea millefolium	P	5	1(1)	P	8
Agoseris glauca		1(1)	P		
Allium textile					
Artemisia ludoviciana					
Astragalus bisulcatus				P	
Astragalus miser var. oblongifolius					
Balsamorhiza sagittata		1		P	1
Cirsium eatonii					
Gaura coccinea		P			
Helianthella uniflora				P	
Helioomeris multiflora					
Heterotheca villosa					
Linum lewisii	P	P	P		P
Lithospermum ruderales					
Lupinus argenteus					
Lupinus caudatus					
Machaeranthera canescens					
Penstemon sp.	P	(1)			P
Penstemon strictus					

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---				
	28	29	30	31	32
NATIVE PERENNIAL FORBS (Cont'd)					
Perideridia gairdneri ssp. borealis					
Phlox longifolia					
Senecio sp.					
Symphyotrichum ascendens					
Vicia americana		P			
Virgulus falcatus					
Wyethia amplexicaulis					
TOTAL NATIVE PERENNIAL FORBS	P	7(2)	1(1)	P	9
INTRODUCED PERENNIAL FORBS					
Astragalus cicer					
Cirsium arvense					
Convolvulus arvensis					
Medicago sativa	15(1)	7(1)	41	3	5(1)
Rumex crispus					P
Taraxacum officinale	P	1	P	P	P
TOTAL INTRODUCED PERENNIAL FORBS	15(1)	8(1)	41	3	5(1)
NATIVE PERENNIAL GRASSES (c)					
Achnatherum lettermanii		1			
Bromelica bulbosa					
Bromus carinatus var. marginatus					
Elymus elymoides				P	
Elymus glaucus					
Elymus lanceolatus sp. lanceolatus	1	4	P		
Elymus lanceolatus fm. albicans					
Elymus trachycaulus					
Koeleria macrantha					
Leymus cinereus	3	5		1	P
Nassella viridula	1			P	
Pascopyrum smithii	12		3	5	4(1)
Poa compressa		1		P	
Poa secunda					
Poa secunda ssp. juncifolia					
Pseudoroegneria spicata ssp. inermis		1			3(1)
Pseudoroegneria spicata ssp. spicata		P	P	P	
TOTAL NATIVE PERENNIAL GRASSES (c)	17	12	3	6	7(2)
INTRODUCED PERENNIAL GRASSES (C)					
Agrostis gigantea					
Alopecurus pratensis					
Bromopsis inermis	P		P	2(1)	7
Dactylis glomerata					
Festuca ovina			P		
Phleum pratense					
Poa pratensis ssp. pratensis			1		
Thinopyrum intermedium	13	2	P	2	5(1)
TOTAL INTRODUCED PERENNIAL GRASSES (c)	13	2	1	4(1)	12(1)
NATIVE SHRUBS					
Artemisia cana					
Artemisia tridentata	P	P	3	4	P
Chrysothamnus viscidiflorus					
Ericameria nauseosa				26(1)	1
Purshia tridentata		P			
Rosa woodsii					
Symphoricarpos rotundifolius					
TOTAL NATIVE SHRUBS	P	P	3	30(1)	1

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---				
	28	29	30	31	32
Standing Dead	2	4	1	3	
Litter	25	23	28	17	23
Bare Ground (Soil)	11	26	16	21	8
Rock		1	1	1	21
TOTALS	100(1)	100(6)	100(1)	100(5)	100(5)
TOTAL VEGETATION COVER	62(1)	46(6)	54(1)	58(5)	48(5)
<i>Standard Deviation</i>					
GROUND COVER (Litter+Rock+Veg+St.Dead)	89(1)	74(6)	84(1)(1)	79(5)	92(5)
<i>Standard Deviation</i>					
SPECIES DENSITY (# of species/100 sq.m.)	21	28	24	28	24
<i>Standard Deviation</i>					

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^b (%)	FREQUENCY ^d (%)
NATIVE ANNUAL AND BIENNIAL FORBS					
<i>Androsace septentrionalis</i>	0.00	0.00	0.00	0.00	5.88
<i>Chenopodium leptophyllum</i>	0.00	0.00	0.06	0.05	5.88
<i>Collomia grandiflora</i>	0.12	0.14	0.12	0.10	11.76
<i>Collomia linearis</i>	0.00	0.00	0.00	0.00	11.76
<i>Descurainia incana</i>	0.35	0.43	0.47	0.39	58.82
<i>Galium bifolium</i>	0.06	0.07	0.06	0.05	5.88
<i>Gentianella amarella</i> ssp. <i>acuta</i>	0.00	0.00	0.00	0.00	5.88
<i>Grindelia squarrosa</i>	0.00	0.00	0.00	0.00	5.88
<i>Polygonum douglasii</i>	0.29	0.36	0.29	0.24	41.18
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	0.8	1.0	1.0	0.8	88.2
INTRODUCED ANNUAL AND BIENNIAL FORBS					
<i>Carduus nutans</i> ssp. <i>macrolepis</i>	0.12	0.14	0.12	0.10	5.88
<i>Chenopodium album</i>	0.12	0.14	0.12	0.10	23.53
<i>Cynoglossum officinale</i>	0.71	0.85	1.12	0.92	58.82
<i>Lactuca serriola</i>	0.00	0.00	0.06	0.05	17.65
<i>Thlaspi arvense</i>	0.06	0.07	0.12	0.10	11.76
<i>Tragopogon dubius</i> ssp. <i>major</i>	0.00	0.00	0.00	0.00	11.76
<i>Turritis glabra</i>	0.06	0.07	0.06	0.05	11.76
<i>Verbascum thapsus</i>	0.00	0.00	0.00	0.00	5.88
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	1.1	1.3	1.6	1.3	88.2
NATIVE PERENNIAL FORBS					
<i>Achillea millefolium</i>	1.00	1.21	1.82	1.50	70.59
<i>Actaea rubra</i> ssp. <i>arguta</i>	0.18	0.21	0.35	0.29	5.88
<i>Agastache urticifolia</i>	2.65	3.20	3.71	3.04	58.82
<i>Antennaria parvifolia</i>	0.00	0.00	0.06	0.05	5.88
<i>Aquilegia</i> sp.	0.00	0.00	0.00	0.00	11.76
<i>Aster foliaceus</i>	0.00	0.00	0.24	0.19	17.65
<i>Campanula rotundifolia</i>	0.00	0.00	0.06	0.05	17.65
<i>Castilleja sulphurea</i>	0.00	0.00	0.00	0.00	17.65
<i>Cirsium centaureae</i>	0.06	0.07	0.06	0.05	5.88
<i>Cirsium eatonii</i>	0.18	0.21	0.29	0.24	29.41
<i>Delphinium barbeyi</i>	0.06	0.07	0.06	0.05	11.76
<i>Delphinium nuttallianum</i>	0.00	0.00	0.00	0.00	11.76
<i>Drymocallis</i> sp.	0.00	0.00	0.00	0.00	5.88
<i>Erigeron engelmannii</i>	0.06	0.07	0.24	0.19	35.29
<i>Erigeron formosissimus</i>	0.18	0.21	0.18	0.14	11.76
<i>Erigeron speciosus</i>	0.29	0.36	0.35	0.29	17.65
<i>Galium septentrionale</i>	0.82	1.00	1.29	1.06	94.12
<i>Gayophytum diffusum</i> ssp. <i>parviflorum</i>	0.12	0.14	0.12	0.10	5.88
<i>Geranium viscosissimum</i> ssp. <i>nervosum</i>	0.41	0.50	0.71	0.58	29.41
<i>Helioomeris multiflora</i>	0.24	0.28	0.41	0.34	23.53
<i>Heracleum sphondylium</i> ssp. <i>montanum</i>	0.65	0.78	1.24	1.01	17.65
<i>Hydrophyllum fendleri</i>	0.29	0.36	0.53	0.43	41.18
<i>Lathyrus leucanthus</i>	0.76	0.93	1.82	1.50	41.18
<i>Ligusticum porteri</i>	0.53	0.64	1.29	1.06	58.82
<i>Lupinus argenteus</i>	0.06	0.07	0.12	0.10	11.76
<i>Lupinus caudatus</i>	0.06	0.07	0.47	0.39	35.29
<i>Maianthemum racemosum</i>	0.00	0.00	0.00	0.00	5.88
<i>Maianthemum racemosum</i> ssp. <i>amplexicaule</i>	0.12	0.14	0.18	0.14	29.41
<i>Maianthemum stellatum</i>	0.00	0.00	0.00	0.00	5.88
<i>Mertensia ciliata</i>	0.88	1.07	2.24	1.84	76.47
<i>Osmorhiza chilensis</i>	0.53	0.64	1.71	1.40	47.06
<i>Osmorhiza occidentalis</i>	1.12	1.35	1.82	1.50	64.71
<i>Pedicularis bracteosa</i> ssp. <i>Paysoniana</i>	0.06	0.07	0.12	0.10	29.41
<i>Perideridia gairdneri</i> ssp. <i>borealis</i>	0.41	0.50	0.41	0.34	47.06

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^b (%)	FREQUENCY ^a (%)
NATIVE PERENNIAL FORBS (Cont'd)					
Potentilla gracilis	0.12	0.14	0.12	0.10	5.88
Prosartes trachycarpa	0.53	0.64	1.00	0.82	29.41
Pseudostellaria jamesiana	0.00	0.00	0.24	0.19	35.29
Rudbeckia ampla	0.00	0.00	0.00	0.00	17.65
Senecio multicapitatus	0.00	0.00	0.06	0.05	5.88
Senecio serra	3.53	4.27	3.94	3.24	35.29
Symphyotrichum ascendens	1.71	2.06	5.29	4.35	58.82
Thalictrum fendleri	0.53	0.64	0.94	0.77	82.35
Urtica gracilis ssp. gracilis	1.29	1.57	2.06	1.69	35.29
Valeriana edulis	0.76	0.93	1.53	1.26	58.82
Veratrum tenuipetalum	0.24	0.28	0.35	0.29	23.53
Vicia americana	0.53	0.64	0.76	0.63	70.59
Viola macloskeyi ssp. Pallens	0.00	0.00	0.00	0.00	11.76
Viola scopulorum	1.59	1.92	4.24	3.48	82.35
Native perennial forb	0.12	0.14	0.12	0.10	11.76
TOTAL NATIVE PERENNIAL FORBS	22.6	27.4	42.5	34.9	100.0
INTRODUCED PERENNIAL FORBS					
Cirsium arvense	0.41	0.50	0.47	0.39	23.53
Medicago sativa	0.00	0.00	0.00	0.00	5.88
Taraxacum officinale	0.24	0.28	0.29	0.24	47.06
TOTAL INTRODUCED PERENNIAL FORBS	0.6	0.8	0.8	0.6	64.7
NATIVE PERENNIAL GRASSES (c)					
Bromopsis porteri	0.00	0.00	0.00	0.00	29.41
Bromus carinatus var. marginatus	2.06	2.49	2.71	2.22	58.82
Carex geyeri	0.94	1.14	2.82	2.32	52.94
Elymus glaucus	1.06	1.28	2.24	1.84	94.12
Nassella viridula	0.00	0.00	0.06	0.05	5.88
Pascopyrum smithii	0.06	0.07	0.06	0.05	5.88
Poa pratensis ssp. agassizensis	3.53	4.27	5.82	4.78	88.24
TOTAL NATIVE PERENNIAL GRASSES (c)	7.6	9.3	13.7	11.3	100.0
INTRODUCED PERENNIAL GRASSES (c)					
Bromopsis inermis	0.82	1.00	1.06	0.87	17.65
Dactylis glomerata	0.24	0.28	0.29	0.24	23.53
Phleum pratense	0.47	0.57	0.47	0.39	41.18
Thinopyrum intermedium	0.12	0.14	0.12	0.10	5.88
TOTAL INTRODUCED PERENNIAL GRASSES (c)	1.6	2.0	1.9	1.6	52.9
NATIVE FERN					
Pteridium aquilinum ssp. lanuginosum	1.00	1.21	2.41	1.98	11.76
TOTAL NATIVE FERN	1.0	1.2	2.4	2.0	11.8
NATIVE SHRUBS					
Acer glabrum	0.41	0.50	1.00	0.82	35.29
Amelanchier alnifolia	6.53	7.90	9.82	8.07	88.24
Ericameria nauseosa	0.00	0.00	0.00	0.00	5.88
Mahonia repens	0.12	0.14	0.71	0.58	41.18
Padus virginiana ssp. melanocarpa	0.71	0.85	1.12	0.92	41.18
Paxistima myrsinites	0.00	0.00	0.18	0.14	23.53
Quercus gambelii	1.47	1.78	2.59	2.13	41.18
Ribes inerme	0.35	0.43	0.53	0.43	23.53
Rosa sayi	0.12	0.14	0.29	0.24	23.53
Rosa woodsii	1.18	1.42	2.00	1.64	35.29
Rubacer parviflorum	0.88	1.07	2.06	1.69	29.41
Symphoricarpos rotundifolius	10.00	12.10	11.82	9.71	94.12
TOTAL NATIVE SHRUBS	21.8	26.3	32.1	26.4	100.0

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE TREES					
Acer negundo	0.12	0.14	0.12	0.10	5.88
Populus tremuloides	25.06	30.32	25.12	20.64	100.00
TOTAL NATIVE TREES	25.2	30.5	25.2	20.7	100.0
NATIVE VINES					
Atragea occidentalis	0.12	0.14	0.29	0.24	5.88
TOTAL NATIVE VINES	0.1	0.1	0.3	0.2	5.9
BRYOPHYTES					
Moss	0.12	0.14	0.12	0.10	29.41
TOTAL BRYOPHYTES	0.1	0.1	0.1	0.1	29.4
LICHENS					
Lichen	0.00	0.00	0.00	0.00	23.53
TOTAL LICHENS	0.0	0.0	0.0	0.0	23.5
FUNGI					
Mushrooms	0.00	0.00	0.00	0.00	17.65
TOTAL FUNGI	0.0	0.0	0.0	0.0	17.6
Standing Dead	0.59	0.71	0.59	0.48	
Litter	13.35	16.16	13.35	10.97	
Bare Ground (Soil)	3.41	4.13	3.41	2.80	
Rock	0.00	0.00	0.00	0.00	
TOTALS	100	100	139	100	
TOTAL VEGETATION COVER	82.6		121.7		
Standard Deviation	7.474		33.346		
GROUND COVER (Litter+Rock+Veg+St.Dead)	96.6		135.6		
Standard Deviation	2.830		28.905		
SPECIES DENSITY (# of species/100 sq.m.)	30.5				
Standard Deviation	7.954				

^a First Hit Cover = Absolute percent cover in vertical view with no account of plants obscured by first (i.e. top) hit.

^b First Hit Relative Cover = Percent of the First Hit vegetation cover comprised of this species or lifeform

^c All Hit Cover = Absolute percent cover in vertical view accounting for all cover by the species or lifeform, whether over-arched by other plants or not

^d All Hit Relative Cover = Percent of the All Hit vegetation cover comprised of the species or lifeform

^e Frequency = Percent of the samples in which a species or lifeform occurred

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE ANNUAL AND BIENNIAL FORBS									
<i>Androsace septentrionalis</i>		P							
<i>Chenopodium leptophyllum</i>						(1)			
<i>Collomia grandiflora</i>									
<i>Collomia linearis</i>		P							
<i>Descurainia incana</i>	1		(1)	P		2(1)	1	P	
<i>Galium bifolium</i>	1								
<i>Gentianella amarella</i> ssp. <i>acuta</i>								P	
<i>Grindelia squarrosa</i>									P
<i>Polygonum douglasii</i>		P	P	1	P		P		
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	2	P	(1)	1	P	2(2)	1	P	P
INTRODUCED ANNUAL AND BIENNIAL FORBS									
<i>Carduus nutans</i> ssp. <i>macrolepis</i>									
<i>Chenopodium album</i>					P			P	
<i>Cynoglossum officinale</i>			P	1		P			2
<i>Lactuca serriola</i>	P					(1)			P
<i>Thlaspi arvense</i>						1(1)			P
<i>Tragopogon dubius</i> ssp. <i>major</i>						P			
<i>Turritis glabra</i>									
<i>Verbascum thapsus</i>									
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	P		P	1	P	1(2)		P	2
NATIVE PERENNIAL FORBS									
<i>Achillea millefolium</i>		(4)	P	3(1)	P		2(3)	P	1
<i>Actaea rubra</i> ssp. <i>arguta</i>									
<i>Agastache urticifolia</i>	2(5)			10(1)		4(1)	4(3)		4
<i>Antennaria parvifolia</i>		(1)							
<i>Aquilegia</i> sp.		P		P					
<i>Aster foliaceus</i>			(2)			P			
<i>Campanula rotundifolia</i>		P					P		
<i>Castilleja sulphurea</i>								P	
<i>Cirsium centaureae</i>							1		
<i>Cirsium eatonii</i>		P			P				
<i>Delphinium barbeyi</i>						1			
<i>Delphinium nuttallianum</i>		P							
<i>Drymocallis</i> sp.		P							
<i>Erigeron engelmannii</i>		(2)	P					P	
<i>Erigeron formosissimus</i>				1					2
<i>Erigeron speciosus</i>				2(1)					2
<i>Galium septentrionale</i>	1	(2)	1(4)	(1)	P		(1)	P	1
<i>Gayophytum diffusum</i> ssp. <i>parviflorum</i>									
<i>Geranium viscosissimum</i> ssp. <i>nervosum</i>			1		(1)				4
<i>Helioeris multiflora</i>		P							
<i>Heracleum sphondylium</i> ssp. <i>montanum</i>			2(1)		6(8)			3(1)	
<i>Hydrophyllum fendleri</i>			P				1		1
<i>Lathyrus leucanthus</i>		(6)	1(4)		2(3)			2(2)	
<i>Ligusticum porteri</i>		(1)	(1)		2(2)			2(2)	P
<i>Lupinus argenteus</i>				1				(1)	
<i>Lupinus caudatus</i>		(2)	(1)		(1)			(1)	
<i>Maianthemum racemosum</i>									
<i>Maianthemum racemosum</i> ssp. <i>amplexicaule</i>					1(1)			1	
<i>Maianthemum stellatum</i>									
<i>Mertensia ciliata</i>	3(2)		P		1(3)	4(1)		(1)	
<i>Osmorhiza chilensis</i>		(3)	1(2)		1(3)			3(6)	
<i>Osmorhiza occidentalis</i>	3(1)		1			5	(2)		(1)
<i>Pedicularis bracteosa</i> ssp. <i>Paysoniana</i>					(1)		P	P	
<i>Perideridia gairdneri</i> ssp. <i>borealis</i>				P		2	1		P

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE PERENNIAL FORBS (Cont'd)									
Potentilla gracilis									2
Prosartes trachycarpa			P	(1)			7(2)		1(2)
Pseudostellaria jamesiana		(1)	P		(2)			(1)	
Rudbeckia ampla				P					P
Senecio multicapitatus			(1)						
Senecio serra	34(2)		P			12(1)			
Symphytotrichum ascendens		3(16)	1		1(5)		1	8(8)	
Thalictrum fendleri		1	P	P	P	P	1	P	
Urtica gracilis ssp. gracilis	3(1)					(1)			P
Valeriana edulis	(1)	(1)		3(1)	(2)	1(1)	5(4)	P	3
Veratrum tenuipetalum		(1)					1		3
Vicia americana	1			P	P		4(1)	1	P
Viola macloskeyi ssp. Pallens		P							
Viola scopulorum	2(3)	(3)	2(4)	4(3)		(1)	2(2)	(1)	2(1)
Native perennial forb	1					1			
TOTAL NATIVE PERENNIAL FORBS	50(15)	4(43)	10(20)	24(9)	14(32)	30(6)	30(18)	20(24)	26(4)
INTRODUCED PERENNIAL FORBS									
Cirsium arvense	3(1)					3			P
Medicago sativa		P							
Taraxacum officinale		2(1)	P		P	1		P	
TOTAL INTRODUCED PERENNIAL FORBS	3(1)	2(1)	P		P	4		P	P
NATIVE PERENNIAL GRASSES (c)									
Bromopsis porteri		P			P			P	
Bromus carinatus var. marginatus	4(2)		P	1		10(1)			(1)
Carex geyeri		1(5)	1(2)		(1)		P	4(2)	3(2)
Elymus glaucus	1	1(4)	(2)		1(2)	2(2)	2(1)	P	2
Nassella viridula									
Pascopyrum smithii									1
Poa pratensis ssp. agassizensis		(5)	1(4)	9(3)	2(5)	3(1)	6(2)	(2)	6(5)
TOTAL NATIVE PERENNIAL GRASSES (c)	5(2)	2(14)	2(8)	10(3)	3(8)	15(4)	8(3)	4(4)	12(8)
INTRODUCED PERENNIAL GRASSES (c)									
Bromopsis inermis									P
Dactylis glomerata									1
Phleum pratense					P				4
Thinopyrum intermedium									2
TOTAL INTRODUCED PERENNIAL GRASSES (c)					P				7
NATIVE FERN									
Pteridium aquilinum ssp. lanuginosum			12(5)						
TOTAL NATIVE FERN			12(5)						
NATIVE SHRUBS									
Acer glabrum		1(1)	1(1)		1(2)				
Amelanchier alnifolia		2(15)	10(4)	6	6(5)	6	2	7(7)	2
Ericameria nauseosa		P							
Mahonia repens		1(1)	(7)		(1)			P	
Padus virginiana ssp. melanocarpa		2(1)			1(1)		1		
Paxistima myrsinites			P					(1)	
Quercus gambelii			(1)		1(2)		6	5(2)	
Ribes inerme						P			2
Rosa sayi				1(2)			(1)		1
Rosa woodsii		1(3)			1(1)			3(3)	
Rubacer parviflorum		(2)	4(5)						
Symphoricarpos rotundifolius	1	(3)	(1)	17(2)	P	14(4)	25(1)		14(1)
TOTAL NATIVE SHRUBS	4	7(28)	15(19)	24(4)	10(12)	20(4)	34(2)	15(13)	19(1)

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE TREES									
Acer negundo									2
Populus tremuloides	19	75	44	12	58	1	15	43	2
TOTAL NATIVE TREES	19	75	44	12	58	1	15	43	4
NATIVE VINES									
Atragene occidentalis								2(3)	
TOTAL NATIVE VINES								2(3)	
BRYOPHYTES									
Moss		2	P		P			P	
TOTAL BRYOPHYTES		2	P		P			P	
LICHENS									
Lichen			P		P			P	
TOTAL LICHENS			P		P			P	
FUNGI									
Mushrooms			P		P				
TOTAL FUNGI			P		P				
Standing Dead					3	2		1	3
Litter	15	5	16	20	10	16	9	14	20
Bare Ground (Soil)	2	3	1	8	2	9	3	1	7
Rock									
TOTALS	100(18)	100(86)	100(53)	100(16)	100(52)	100(18)	100(23)	100(44)	100(13)
TOTAL VEGETATION COVER	83(18)	92(86)	83(53)	72(16)	85(52)	73(18)	88(23)	84(44)	70(13)
Standard Deviation									
GROUND COVER (Litter+Rock+Veg+St.Dead)	98(18)	97(86)	99(53)	92(16)	98(52)	91(18)	97(23)	99(44)	93(13)
Standard Deviation									
SPECIES DENSITY (# of species/100 sq.m.)	18	40	41	23	36	27	27	36	38
Standard Deviation									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---							
	10	11	12	13	14	15	16	17
NATIVE ANNUAL AND BIENNIAL FORBS								
<i>Androsace septentrionalis</i>								
<i>Chenopodium leptophyllum</i>								
<i>Collomia grandiflora</i>				1		1		
<i>Collomia linearis</i>	P							
<i>Descurainia incana</i>			1	P	1			P
<i>Galium bifolium</i>								
<i>Gentianella amarella</i> ssp. <i>acuta</i>								
<i>Grindelia squarrosa</i>								
<i>Polygonum douglasii</i>				2		2		
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	P		1	3	1	3		P
INTRODUCED ANNUAL AND BIENNIAL FORBS								
<i>Carduus nutans</i> ssp. <i>macrolepis</i>							2	
<i>Chenopodium album</i>	P				2			
<i>Cynoglossum officinale</i>			1	(2)	4(1)	3(3)	1(1)	P
<i>Lactuca serriola</i>								
<i>Thlaspi arvense</i>								
<i>Tragopogon dubius</i> ssp. <i>major</i>					P			
<i>Turritis glabra</i>	P	1						
<i>Verbascum thapsus</i>						P		
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	P	1	1	(2)	6(1)	3(3)	3(1)	P
NATIVE PERENNIAL FORBS								
<i>Achillea millefolium</i>	1(1)	P			5(1)	5(2)		P
<i>Actaea rubra</i> ssp. <i>arguta</i>		3(3)						
<i>Agastache urticifolia</i>			4	6(1)	6(5)	5	P	
<i>Antennaria parvifolia</i>								
<i>Aquilegia</i> sp.								
<i>Aster foliaceus</i>								(2)
<i>Campanula rotundifolia</i>		(1)						
<i>Castilleja sulphurea</i>	P	P						
<i>Cirsium centaureae</i>								
<i>Cirsium eatonii</i>	1	P					2(2)	
<i>Delphinium barbeyi</i>					P			
<i>Delphinium nuttallianum</i>		P						
<i>Drymocallis</i> sp.								
<i>Erigeron engelmannii</i>	1(1)	P						P
<i>Erigeron formosissimus</i>								
<i>Erigeron speciosus</i>				1				
<i>Galium septentrionale</i>	P	P	1	2	7	1	P	P
<i>Gayophytum diffusum</i> ssp. <i>parviflorum</i>				2				
<i>Geranium viscosissimum</i> ssp. <i>nervosum</i>				(2)			2(2)	
<i>Helioeris multiflora</i>				1(1)	1(1)	2(1)		
<i>Heracleum sphondylium</i> ssp. <i>montanum</i>								
<i>Hydrophyllum fendleri</i>		1			P		P	2(4)
<i>Lathyrus leucanthus</i>	3(1)	5(2)						P
<i>Ligusticum porteri</i>	4(3)	1(2)			(1)		P	(1)
<i>Lupinus argenteus</i>								
<i>Lupinus caudatus</i>	1(1)	(1)						
<i>Maianthemum racemosum</i>		p						
<i>Maianthemum racemosum</i> ssp. <i>amplexicaule</i>	P	P					P	
<i>Maianthemum stellatum</i>				P				
<i>Mertensia ciliata</i>	(2)	(1)	3	(1)	1	2	1(2)	(7)
<i>Osmorhiza chilensis</i>	(1)	3(2)					(1)	1(2)
<i>Osmorhiza occidentalis</i>	(1)		1	2	P		7(4)	(2)
<i>Pedicularis bracteosa</i> ssp. <i>Paysoniana</i>	P		1					
<i>Perideridia gairdneri</i> ssp. <i>borealis</i>		P	3		P	1		

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()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---							
	10	11	12	13	14	15	16	17
NATIVE PERENNIAL FORBS (Cont'd)								
Potentilla gracilis								
Prosartes trachycarpa		1(3)						
Pseudostellaria jamesiana		P					P	
Rudbeckia ampla							P	
Senecio multicapitatus								
Senecio serra			13		P			1(2)
Symphyotrichum ascendens	7(12)	7(16)		1	P			(4)
Thalictrum fendleri	(2)	1		1(1)	3	P	P	2(4)
Urtica gracilis ssp. gracilis					1		18(10)	(1)
Valeriana edulis		(1)		1(2)				
Veratrum tenuipetalum	(1)							
Vicia americana	(1)	(2)	P		2	1	P	
Viola macloskeyi ssp. Pallens		P						
Viola scopulorum	1(2)	1(1)	5	1			3(3)	4(17)
Native perennial forb								
TOTAL NATIVE PERENNIAL FORBS	19(29)	23(35)	31	18(8)	26(8)	17(3)	33(24)	10(46)
INTRODUCED PERENNIAL FORBS								
Cirsium arvense			1					
Medicago sativa								
Taraxacum officinale	1	P						P
TOTAL INTRODUCED PERENNIAL FORBS	1	P	1					P
NATIVE PERENNIAL GRASSES (c)								
Bromopsis porteri	P	P						
Bromus carinatus var. marginatus	P		1	1(3)	11(1)	7(2)		
Carex geyeri	2(5)	5(15)						P
Elymus glaucus	1(1)	(1)	2	(2)	2	4	(1)	(3)
Nassella viridula	(1)							
Pascopyrum smithii								
Poa pratensis ssp. agassizensis	3	6(6)	5	6(4)	10	3(1)		P
TOTAL NATIVE PERENNIAL GRASSES (c)	6(7)	11(22)	8	7(9)	23(1)	14(3)	(1)	(3)
INTRODUCED PERENNIAL GRASSES (c)								
Bromopsis inermis				4		10(4)		
Dactylis glomerata	P	1(1)					2	
Phleum pratense	P		1	1	1	1		
Thinopyrum intermedium								
TOTAL INTRODUCED PERENNIAL GRASSES (c)	P	1(1)	1	5	1	11(4)	2	
NATIVE FERN								
Pteridium aquilinum ssp. lanuginosum								5(19)
TOTAL NATIVE FERN								5(19)
NATIVE SHRUBS								
Acer glabrum	1(3)	1(3)					2	
Amelanchier alnifolia	7(8)	25(2)	10	2	1		15	10(15)
Ericameria nauseosa								
Mahonia repens	P	1						(1)
Padus virginiana ssp. melanocarpa				1		5(1)	1	1(4)
Paxistima myrsinites		(2)					P	
Quercus gambelii	12(9)	(3)						1
Ribes inerme				(1)			1(2)	
Rosa sayi					P			
Rosa woodsii	2(2)	12(5)					1	
Rubacer parviflorum	11(13)	P						P
Symphoricarpos rotundifolius	3(1)	(3)	13	33(5)	23	22(4)	4(3)	1
TOTAL NATIVE SHRUBS	36(36)	39(18)	23	36(6)	24	27(5)	24(5)	13(20)

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover							
	---Sample Number---							
	10	11	12	13	14	15	16	17
NATIVE TREES								
Acer negundo								
Populus tremuloides	31	18	9	15	P	5	15	64
TOTAL NATIVE TREES	31	18	9	15	P	5	15	64
NATIVE VINES								
Atragea occidentalis								
TOTAL NATIVE VINES								
BRYOPHYTES								
Moss		P						
TOTAL BRYOPHYTES		P						
LICHENS								
Lichen								P
TOTAL LICHENS								P
FUNGI								
Mushrooms								P
TOTAL FUNGI								P
Standing Dead			1					
Litter	6	7	20	10	14	15	23	7
Bare Ground (Soil)	1		4	6	5	5		1
Rock								
TOTALS	100(72)	100(76)	100	100(25)	100(10)	100(18)	100(31)	100(88)
TOTAL VEGETATION COVER	93(72)	93(76)	75	84(25)	81(10)	80(18)	77(31)	92(88)
Standard Deviation								
GROUND COVER (Litter+Rock+Veg+St.Dead)	99(72)	100(76)	96	94(25)	95(10)	95(18)	100(31)	99(88)
Standard Deviation								
SPECIES DENSITY (# of species/100 sq.m.)	38	42	19	27	27	20	29	31
Standard Deviation								

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

**Table A-3. Cover Data - Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2022**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE ANNUAL AND BIENNIAL FORBS					
<i>Chenopodium berlandieri</i>	0.00	0.00	0.00	0.00	6.67
<i>Chenopodium</i> sp.	0.00	0.00	0.00	0.00	13.33
<i>Collinsia parviflora</i>	0.00	0.00	0.07	0.06	40.00
<i>Collomia grandiflora</i>	0.07	0.09	0.07	0.06	13.33
<i>Collomia linearis</i>	0.00	0.00	0.07	0.06	53.33
<i>Descurainia incana</i>	0.00	0.00	0.00	0.00	13.33
<i>Epilobium brachycarpum</i>	0.07	0.09	0.07	0.06	6.67
<i>Erigeron divergens</i>	0.07	0.09	0.07	0.06	6.67
<i>Galium bifolium</i>	0.00	0.00	0.00	0.00	6.67
<i>Microsteris gracilis</i> ssp. <i>humilis</i>	0.00	0.00	0.00	0.00	6.67
<i>Navarretia minima</i>	0.00	0.00	0.00	0.00	6.67
<i>Polygonum douglasii</i>	0.53	0.68	0.87	0.78	80.00
<i>Silene antirrhina</i>	0.00	0.00	0.00	0.00	6.67
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	0.7	0.9	1.2	1.1	100.0
INTRODUCED ANNUAL AND BIENNIAL FORBS					
<i>Alyssum desertorum</i>	0.13	0.17	0.13	0.12	13.33
<i>Camelina microcarpa</i>	0.00	0.00	0.00	0.00	6.67
<i>Capsella bursa-pastoris</i>	0.00	0.00	0.00	0.00	13.33
<i>Carduus nutans</i> ssp. <i>macrolepis</i>	0.00	0.00	0.00	0.00	6.67
<i>Chenopodium album</i>	0.13	0.17	0.40	0.36	60.00
<i>Cynoglossum officinale</i>	0.33	0.43	0.73	0.66	60.00
<i>Lactuca serriola</i>	0.00	0.00	0.00	0.00	33.33
<i>Melilotus officinalis</i>	0.00	0.00	0.00	0.00	6.67
<i>Pocilla biloba</i>	0.00	0.00	0.07	0.06	20.00
<i>Sisymbrium altissimum</i>	0.00	0.00	0.07	0.06	13.33
<i>Thlaspi arvense</i>	0.00	0.00	0.00	0.00	6.67
<i>Tragopogon dubius</i> ssp. <i>major</i>	0.07	0.09	0.07	0.06	46.67
<i>Turritis glabra</i>	0.00	0.00	0.00	0.00	13.33
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	0.7	0.9	1.5	1.3	100.0
INTRODUCED ANNUAL GRASSES					
<i>Bromus arvensis</i>	0.07	0.09	0.13	0.12	20.00
TOTAL INTRODUCED ANNUAL GRASSES	0.1	0.1	0.1	0.1	20.0
NATIVE PERENNIAL FORBS					
<i>Achillea millefolium</i>	0.67	0.85	1.27	1.14	93.33
<i>Agastache urticifolia</i>	0.40	0.51	0.60	0.54	46.67
<i>Allium textile</i>	0.00	0.00	0.00	0.00	40.00
<i>Antennaria parvifolia</i>	0.00	0.00	0.00	0.00	6.67
<i>Artemisia dracunculus</i>	0.00	0.00	0.00	0.00	6.67
<i>Aster foliaceus</i>	0.07	0.09	0.07	0.06	6.67
<i>Balsamorhiza sagittata</i>	0.07	0.09	0.13	0.12	13.33
<i>Campanula rotundifolia</i>	0.00	0.00	0.00	0.00	6.67
<i>Cirsium eatonii</i>	0.00	0.00	0.00	0.00	6.67
<i>Comandra umbellata</i> ssp. <i>pallida</i>	0.00	0.00	0.00	0.00	6.67
<i>Erigeron engelmannii</i>	0.60	0.77	0.93	0.84	80.00
<i>Eriogonum jamesii</i>	0.07	0.09	0.33	0.30	26.67
<i>Eriogonum umbellatum</i>	0.00	0.00	0.07	0.06	13.33
<i>Galium aparine</i>	0.13	0.17	0.67	0.60	40.00
<i>Galium septentrionale</i>	0.20	0.26	0.53	0.48	66.67
<i>Geranium</i> sp.	0.00	0.00	0.07	0.06	6.67
<i>Geranium viscosissimum</i> ssp. <i>nervosum</i>	0.00	0.00	0.07	0.06	6.67
<i>Helianthella uniflora</i>	0.33	0.43	1.53	1.38	13.33
<i>Heliomeris multiflora</i>	0.27	0.34	0.40	0.36	53.33
<i>Lathyrus leucanthus</i>	0.20	0.26	0.60	0.54	46.67
<i>Linum lewisii</i>	0.00	0.00	0.00	0.00	6.67

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

**Table A-3. Cover Data - Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2022**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE PERENNIAL FORBS (Cont'd)					
Lupinus argenteus	0.60	0.77	0.73	0.66	53.33
Lupinus caudatus	0.00	0.00	0.07	0.06	20.00
Machaeranthera canescens	0.00	0.00	0.00	0.00	6.67
Machaeranthera pinnatifida	0.07	0.09	0.13	0.12	6.67
Maianthemum racemosum ssp. amplexicaule	0.00	0.00	0.00	0.00	13.33
Mertensia ciliata	0.00	0.00	0.00	0.00	20.00
Osmorhiza chilensis	0.07	0.09	0.47	0.42	26.67
Osmorhiza occidentalis	0.00	0.00	0.27	0.24	20.00
Packera multilobata	0.00	0.00	0.00	0.00	6.67
Perideridia gairdneri ssp. borealis	0.33	0.43	0.87	0.78	93.33
Phlox longifolia	0.07	0.09	0.07	0.06	13.33
Potentilla gracilis	0.00	0.00	0.00	0.00	6.67
Pseudostellaria jamesiana	0.07	0.09	1.07	0.96	66.67
Stellaria sp.	0.00	0.00	0.00	0.00	6.67
Symphyotrichum ascendens	0.07	0.09	0.07	0.06	20.00
Thalictrum fendleri	0.07	0.09	0.27	0.24	26.67
Valeriana edulis	0.00	0.00	0.00	0.00	6.67
Veratrum tenuipetalum	0.00	0.00	0.00	0.00	6.67
Vicia americana	0.67	0.85	0.87	0.78	80.00
Viola sp.	0.00	0.00	0.07	0.06	13.33
Wyethia amplexicaulis	0.07	0.09	0.13	0.12	6.67
Zigadenus venosus	0.00	0.00	0.00	0.00	6.67
TOTAL NATIVE PERENNIAL FORBS	5.1	6.5	12.3	11.1	100.0
INTRODUCED PERENNIAL FORBS					
Taraxacum officinale	0.00	0.00	0.07	0.06	20.00
TOTAL INTRODUCED PERENNIAL FORBS	0.0	0.0	0.1	0.1	20.0
NATIVE PERENNIAL GRASSES (c)					
Achnatherum lettermanii	0.13	0.17	0.20	0.18	6.67
Achnatherum nelsonii	0.07	0.09	0.07	0.06	20.00
Bromelica bulbosa	0.00	0.00	0.07	0.06	20.00
Bromopsis porteri	0.00	0.00	0.27	0.24	13.33
Bromus carinatus var. marginatus	0.27	0.34	0.73	0.66	60.00
Carex geyeri	2.80	3.59	10.20	9.19	80.00
Carex sp.	0.33	0.43	0.67	0.60	13.33
Elymus glaucus	0.13	0.17	0.67	0.60	60.00
Elymus lanceolatus sp. lanceolatus	0.00	0.00	0.00	0.00	6.67
Elymus trachycaulus	0.07	0.09	0.07	0.06	13.33
Hesperostipa comata	0.13	0.17	0.13	0.12	6.67
Nassella viridula	0.27	0.34	0.53	0.48	26.67
Pascopyrum smithii	0.13	0.17	0.20	0.18	13.33
Poa pratensis ssp. agassizensis	2.07	2.65	4.67	4.20	100.00
Poa secunda ssp. juncifolia	0.00	0.00	0.00	0.00	6.67
Pseudoroegneria spicata ssp. spicata	0.27	0.34	0.33	0.30	26.67
TOTAL NATIVE PERENNIAL GRASSES (c)	6.7	8.5	18.8	16.9	100.0
INTRODUCED PERENNIAL GRASSES (c)					
Bromus riparius	0.07	0.09	0.20	0.18	26.67
Dactylis glomerata	0.00	0.00	0.13	0.12	13.33
Thinopyrum intermedium	0.40	0.51	0.53	0.48	13.33
TOTAL INTRODUCED PERENNIAL GRASSES (c)	0.5	0.6	0.9	0.8	33.3

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

**Table A-3. Cover Data - Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2022**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE SHRUBS					
Amelanchier alnifolia	6.27	8.03	7.80	7.03	93.33
Artemisia tridentata	3.00	3.84	3.13	2.82	46.67
Chrysothamnus viscidiflorus	0.07	0.09	0.13	0.12	13.33
Mahonia repens	0.07	0.09	0.27	0.24	6.67
Padus virginiana ssp. melanocarpa	2.00	2.56	3.80	3.42	60.00
Quercus gambelii	42.80	54.82	43.80	39.46	100.00
Rosa woodsii	0.07	0.09	0.27	0.24	13.33
Symphoricarpos rotundifolius	10.13	12.98	16.93	15.26	100.00
TOTAL NATIVE SHRUBS	64.4	82.5	76.1	68.6	100.0
LICHENS					
Lichen	0.00	0.00	0.00	0.00	13.33
TOTAL LICHENS	0.0	0.0	0.0	0.0	13.3
FUNGI					
Mushrooms	0.00	0.00	0.00	0.00	6.67
TOTAL FUNGI	0.0	0.0	0.0	0.0	6.7
Standing Dead	1.07	1.37	1.07	0.96	
Litter	14.73	18.87	14.73	13.27	
Bare Ground (Soil)	6.07	7.77	6.07	5.47	
Rock	0.07	0.09	0.07	0.06	
TOTALS	100	100	133	100	
TOTAL VEGETATION COVER	78.1		111.0		
Standard Deviation	10.653		18.724		
GROUND COVER (Litter+Rock+Veg+St.Dead)	93.9		126.9		
Standard Deviation	4.920		14.267		
SPECIES DENSITY (# of species/100 sq.m.)	27.2				
Standard Deviation	5.784				

^a First Hit Cover = Absolute percent cover in vertical view with no account of plants obscured by first (i.e. top) hit.

^b First Hit Relative Cover = Percent of the First Hit vegetation cover comprised of this species or lifeform

^c All Hit Cover = Absolute percent cover in vertical view accounting for all cover by the species or lifeform, whether over-arched by other plants or not

^d All Hit Relative Cover = Percent of the All Hit vegetation cover comprised of the species or lifeform

^e Frequency = Percent of the samples in which a species or lifeform occurred

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE ANNUAL AND BIENNIAL FORBS									
Chenopodium berlandieri									P
Chenopodium sp.			P				P		
Collinsia parviflora	P		P	P			P		
Collomia grandiflora					P				
Collomia linearis		P				P		P	(1)
Descurainia incana						P	P		
Epilobium brachycarpum									1
Erigeron divergens				1					
Galium bifolium									
Microsteris gracilis ssp. humilis									P
Navarretia minima	P								
Polygonum douglasii	1	(1)	P	1(1)	1	P	3(1)		1
Silene antirrhina	P								
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	1	(1)	P	2(1)	1	P	3(1)	P	2(1)
INTRODUCED ANNUAL AND BIENNIAL FORBS									
Alyssum desertorum	2								
Camelina microcarpa				P					
Capsella bursa-pastoris								P	
Carduus nutans ssp. macrolepis							P		
Chenopodium album	P		1(2)	P	P		1(2)		P
Cynoglossum officinale				P	P	1	P		P
Lactuca serriola	P					P	P		
Melilotus officinalis				P					
Pocilla biloba		(1)		P					P
Sisymbrium altissimum					(1)		P		
Thlaspi arvense									
Tragopogon dubius ssp. major			P	P	P				
Turritis glabra		P							
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	2	(1)	1(2)	P	(1)	1	1(2)	P	P
INTRODUCED ANNUAL GRASSES									
Bromus arvensis	(1)			1	P				
TOTAL INTRODUCED ANNUAL GRASSES	(1)			1	P				
NATIVE PERENNIAL FORBS									
Achillea millefolium	P	(1)	P	(1)	(1)		1	2(1)	2(2)
Agastache urticifolia					1	(1)		1(1)	
Allium textile	P			P			P		P
Antennaria parvifolia	P								
Artemisia dracunculus									
Aster foliaceus									1
Balsamorhiza sagittata	1(1)								
Campanula rotundifolia									
Cirsium eatonii									P
Comandra umbellata ssp. pallida	P								
Erigeron engelmannii		(1)	(2)	P		P	1	2	2(1)
Eriogonum jamesii				1(1)			(2)		
Eriogonum umbellatum	P				(1)				
Galium aparine		(6)	1(1)		(1)				P
Galium septentrionale	1		1		P	P	(1)	(2)	
Geranium sp.					(1)				
Geranium viscosissimum ssp. nervosum									
Helianthella uniflora		5(18)							P
Heliomeris multiflora		P		1	P				P
Lathyrus leucanthus		(2)				P	1(1)	(1)	1(2)
Linum lewisii				P					

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE PERENNIAL FORBS (Cont'd)									
Lupinus argenteus		P		2(1)	2		P	(1)	2
Lupinus caudatus	(1)								P
Machaeranthera canescens					P				
Machaeranthera pinnatifida									
Maianthemum racemosum ssp. amplexicaule								P	
Mertensia ciliata			P				P		
Osmorhiza chilensis						(1)			
Osmorhiza occidentalis							(1)		
Packera multilobata	P								
Perideridia gairdneri ssp. borealis	P	(1)	(1)	P	P	(1)	1(1)	P	(1)
Phlox longifolia	1								
Potentilla gracilis								P	
Pseudostellaria jamesiana		(3)	(2)	(2)		P	(2)		
Stellaria sp.									
Symphyotrichum ascendens					P				
Thalictrum fendleri						P	P		
Valeriana edulis									
Veratrum tenuipetalum								P	
Vicia americana	P	P	P	(1)	1		P	P	4
Viola sp.						P			
Wyethia amplexicaulis		1(1)							
Zigadenus venosus	P								
TOTAL NATIVE PERENNIAL FORBS	3(2)	6(33)	2(6)	4(6)	4(4)	(3)	4(8)	5(6)	12(6)
INTRODUCED PERENNIAL FORBS									
Taraxacum officinale	P							(1)	
TOTAL INTRODUCED PERENNIAL FORBS	P							(1)	
NATIVE PERENNIAL GRASSES (c)									
Achnatherum lettermanii				2(1)					
Achnatherum nelsonii	P								
Bromelica bulbosa		(1)							
Bromopsis porteri			(4)			P			
Bromus carinatus var. marginatus		(1)	P		3		(2)		
Carex geyeri		(1)	3(11)		1	5(10)	8(12)	5(19)	1(5)
Carex sp.	2(3)								
Elymus glaucus		P		P	P		1(1)		(1)
Elymus lanceolatus sp. lanceolatus									
Elymus trachycaulus									P
Hesperostipa comata	2								
Nassella viridula	(1)			(2)					
Pascopyrum smithii	1(1)				1				
Poa pratensis ssp. agassizensis	1(2)	P	1(4)	1(1)	3(5)	4(5)	1(1)	5(2)	3(3)
Poa secunda ssp. juncifolia				P					
Pseudoroegneria spicata ssp. spicata	1			1					
TOTAL NATIVE PERENNIAL GRASSES (c)	7(7)	(3)	4(19)	11(13)	8(5)	9(15)	10(16)	10(21)	4(9)
INTRODUCED PERENNIAL GRASSES (c)									
Bromus riparius		P	(1)						(1)
Dactylis glomerata				(1)					
Thinopyrum intermedium				4(2)					
TOTAL INTRODUCED PERENNIAL GRASSES (c)		P	(1)	4(3)					(1)

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE SHRUBS									
Amelanchier alnifolia	6	3(1)	8(2)	2(2)	5	20(2)	P	12(2)	2(1)
Artemisia tridentata	12			11	1		3		
Chrysothamnus viscidiflorus				(1)					
Mahonia repens									
Padus virginiana ssp. melanocarpa	1		1(2)	(2)	2(2)	(2)	3(1)		
Quercus gambelii	8(1)	75	62(2)	34	30(1)	43(1)	36	45(4)	40
Rosa woodsii								1(3)	
Symphoricarpos rotundifolius	6(3)	1(12)	5(6)	3(7)	26(10)	10(11)	11(2)	11(6)	20(10)
TOTAL NATIVE SHRUBS	33(4)	79(13)	76(12)	50(12)	64(13)	73(16)	53(3)	69(15)	62(11)
LICHENS									
Lichen								P	
TOTAL LICHENS								P	
FUNGI									
Mushrooms		P							
TOTAL FUNGI		P							
Standing Dead	4		2	1			1	3	1
Litter	31	13	14	17	12	15	20	9	16
Bare Ground (Soil)	19	2	1	9	11	2	8	4	3
Rock				1					
TOTALS	100(14)	100(51)	100(40)	100(35)	100(23)	100(34)	100(30)	100(43)	100(28)
TOTAL VEGETATION COVER	46(14)	85(51)	83(40)	72(35)	77(23)	83(34)	71(30)	84(43)	80(28)
Standard Deviation									
GROUND COVER (Litter+Rock+Veg+St.Dead)	81(14)	98(51)	99(40)	91(35)	89(23)	98(34)	92(30)	96(43)	97(28)
Standard Deviation									
SPECIES DENSITY (# of species/100 sq.m.)	34	25	22	34	29	22	31	21	29
Standard Deviation									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---					
	10	11	12	13	14	15
NATIVE ANNUAL AND BIENNIAL FORBS						
Chenopodium berlandieri						
Chenopodium sp.						
Collinsia parviflora			(1)			P
Collomia grandiflora		1				
Collomia linearis	P		P		P	P
Descurainia incana						
Epilobium brachycarpum						
Erigeron divergens						
Galium bifolium	P					
Microsteris gracilis ssp. humilis						
Navarretia minima						
Polygonum douglasii		1(1)	P	P	(1)	
Silene antirrhina						
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	P	2(1)	(1)	P	(1)	P
INTRODUCED ANNUAL AND BIENNIAL FORBS						
Alyssum desertorum		P				
Camelina microcarpa						
Capsella bursa-pastoris					P	
Carduus nutans ssp. macrolepis						
Chenopodium album			P	P	P	
Cynoglossum officinale			1	(1)	2(2)	1(3)
Lactuca serriola			P			P
Melilotus officinalis						
Pocilla biloba						
Sisymbrium altissimum						
Thlaspi arvense			P			
Tragopogon dubius ssp. major	P	P	P	1		
Turritis glabra		P				
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	P	P	1	1(1)	2(2)	1(3)
INTRODUCED ANNUAL GRASSES						
Bromus arvensis						
TOTAL INTRODUCED ANNUAL GRASSES						
NATIVE PERENNIAL FORBS						
Achillea millefolium	2(2)	2	P	(1)	1	P
Agastache urticifolia			1	1	2(1)	P
Allium textile	P		P			
Antennaria parvifolia						
Artemisia dracunculus						P
Aster foliaceus						
Balsamorhiza sagittata	P					
Campanula rotundifolia				P		
Cirsium eatonii						
Comandra umbellata ssp. pallida						
Erigeron engelmannii	P		P	(1)	2	2
Eriogonum jamesii			P		(1)	
Eriogonum umbellatum						
Galium aparine	P					1
Galium septentrionale	(1)			P	(1)	1
Geranium sp.						
Geranium viscosissimum ssp. nervosum				(1)		
Helianthella uniflora						
Heliomeris multiflora			P	P	1(1)	2(1)
Lathyrus leucanthus			P	1		
Linum lewisii						

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---					
	10	11	12	13	14	15
NATIVE PERENNIAL FORBS (Cont'd)						
Lupinus argenteus	P		3			
Lupinus caudatus		P				
Machaeranthera canescens						
Machaeranthera pinnatifida		1(1)				
Maianthemum racemosum ssp. amplexicaule						P
Mertensia ciliata						P
Osmorhiza chilensis			P	1(3)		(2)
Osmorhiza occidentalis					P	(3)
Packera multilobata						
Perideridia gairdneri ssp. borealis	1	P	(1)	2(1)	1(1)	
Phlox longifolia					P	
Potentilla gracilis						
Pseudostellaria jamesiana	(1)		1	(3)	(1)	(1)
Stellaria sp.					P	
Symphyotrichum ascendens		1		P		
Thalictrum fendleri				1(3)		P
Valeriana edulis						P
Veratrum tenuipetalum						
Vicia americana	1(1)		2(1)	2	P	
Viola sp.				(1)		
Wyethia amplexicaulis						
Zigadenus venosus						
TOTAL NATIVE PERENNIAL FORBS	4(5)	4(1)	7(2)	8(14)	7(6)	6(7)
INTRODUCED PERENNIAL FORBS						
Taraxacum officinale				P		
TOTAL INTRODUCED PERENNIAL FORBS				P		
NATIVE PERENNIAL GRASSES (c)						
Achnatherum lettermanii	P	1				
Achnatherum nelsonii			P		P	
Bromelica bulbosa						
Bromopsis porteri						
Bromus carinatus var. marginatus	(2)		P	P	1	(2)
Carex geyeri	5(9)		2(10)	3(13)	2(11)	(1)
Carex sp.		3(2)				
Elymus glaucus			(1)	P	(2)	1(3)
Elymus lanceolatus sp. lanceolatus	P					
Elymus trachycaulus			1			
Hesperostipa comata						
Nassella viridula			3(1)		1	
Pascopyrum smithii						
Poa pratensis ssp. agassizensis	P	4(5)	1(2)	1(2)	4(6)	2(1)
Poa secunda ssp. juncifolia						
Pseudoroegneria spicata ssp. spicata			1		1(1)	
TOTAL NATIVE PERENNIAL GRASSES (c)	5(11)	8(7)	8(14)	4(15)	9(20)	3(7)
INTRODUCED PERENNIAL GRASSES (c)						
Bromus riparius			1			
Dactylis glomerata			(1)			
Thinopyrum intermedium			2			
TOTAL INTRODUCED PERENNIAL GRASSES (c)			3(1)			

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

**Table A-3. Cover Data - Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2022**

PLANT SPECIES	Percent Foliar Cover					
	---Sample Number---					
	10	11	12	13	14	15
NATIVE SHRUBS						
Amelanchier alnifolia	2(2)		3(1)	17(9)	6(1)	8
Artemisia tridentata		13(1)	4		1(1)	
Chrysothamnus viscidiflorus			1			
Mahonia repens	1(3)					
Padus virginiana ssp. melanocarpa				6(7)	4(3)	13(8)
Quercus gambelii	73	40(4)	34	42(1)	43(1)	37
Rosa woodsii				P		
Symphoricarpos rotundifolius	8(9)	6(9)	14(7)	4(1)	10(7)	17(2)
TOTAL NATIVE SHRUBS	84(14)	59(14)	56(8)	69(18)	64(13)	75(10)
LICHENS						
Lichen					P	
TOTAL LICHENS					P	
FUNGI						
Mushrooms						
TOTAL FUNGI						
Standing Dead	1	1		1	1	
Litter	4	17	15	13	15	10
Bare Ground (Soil)	2	9	10	4	2	5
Rock						
TOTALS	100(30)	100(23)	100(26)	100(48)	100 (42)	100(27)
TOTAL VEGETATION COVER	93(30)	73(23)	75(26)	82(48)	82 (42)	85(27)
Standard Deviation						
GROUND COVER (Litter+Rock+Veg+St.Dead)	98(30)	91(23)	90(26)	96(48)	98 (42)	95(27)
Standard Deviation						
SPECIES DENSITY (# of species/100 sq.m.)	22	16	36	29	32	26
Standard Deviation						

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

**Table A-4. Cover Data - Sagebrush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2022**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE ANNUAL AND BIENNIAL FORBS					
<i>Cirsium undulatum</i>	0.00	0.00	0.00	0.00	11.11
<i>Collinsia parviflora</i>	0.17	0.27	0.22	0.30	55.56
<i>Collomia grandiflora</i>	0.00	0.00	0.00	0.00	11.11
<i>Collomia linearis</i>	0.06	0.09	0.11	0.15	55.56
<i>Cordylanthus ramosus</i>	0.06	0.09	0.06	0.08	5.56
<i>Epilobium brachycarpum</i>	0.33	0.53	0.33	0.45	44.44
<i>Erigeron divergens</i>	0.00	0.00	0.00	0.00	5.56
<i>Microsteris gracilis</i> ssp. <i>humilis</i>	0.11	0.18	0.11	0.15	11.11
<i>Polygonum douglasii</i>	0.50	0.80	0.50	0.68	61.11
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	1.2	2.0	1.3	1.8	100.0
INTRODUCED ANNUAL AND BIENNIAL FORBS					
<i>Alyssum alyssoides</i>	0.00	0.00	0.00	0.00	5.56
<i>Alyssum desertorum</i>	0.06	0.09	0.06	0.08	38.89
<i>Camelina microcarpa</i>	0.00	0.00	0.00	0.00	11.11
<i>Carduus nutans</i> ssp. <i>macrolepis</i>	0.00	0.00	0.00	0.00	5.56
<i>Chenopodium album</i>	0.00	0.00	0.00	0.00	5.56
<i>Cynoglossum officinale</i>	0.00	0.00	0.11	0.15	16.67
<i>Lactuca serriola</i>	0.06	0.09	0.06	0.08	27.78
<i>Lepidium perfoliatum</i>	0.06	0.09	0.06	0.08	11.11
<i>Pocilla biloba</i>	0.33	0.53	0.33	0.45	61.11
<i>Scorzonera laciniata</i>	0.17	0.27	0.17	0.23	22.22
<i>Sisymbrium altissimum</i>	0.00	0.00	0.00	0.00	22.22
<i>Thlaspi arvense</i>	0.00	0.00	0.00	0.00	11.11
<i>Tragopogon dubius</i> ssp. <i>major</i>	0.11	0.18	0.17	0.23	61.11
<i>Turritis glabra</i>	0.00	0.00	0.00	0.00	55.56
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	0.8	1.2	0.9	1.3	100.0
INTRODUCED ANNUAL GRASSES					
<i>Bromus arvensis</i>	1.61	2.57	1.72	2.34	66.67
<i>Bromus tectorum</i>	0.00	0.00	0.00	0.00	11.11
TOTAL INTRODUCED ANNUAL GRASSES	1.6	2.6	1.7	2.3	66.7
NATIVE PERENNIAL FORBS					
<i>Achillea millefolium</i>	1.61	2.57	2.17	2.95	94.44
<i>Agastache urticifolia</i>	0.06	0.09	0.06	0.08	5.56
<i>Allium textile</i>	0.50	0.80	0.50	0.68	77.78
<i>Artemisia dracunculus</i>	0.00	0.00	0.00	0.00	5.56
<i>Astragalus miser</i> var. <i>oblongifolius</i>	0.89	1.42	1.22	1.66	50.00
<i>Balsamorhiza sagittata</i>	0.78	1.24	1.11	1.51	50.00
<i>Boechera pulchra</i>	0.00	0.00	0.00	0.00	11.11
<i>Calochortus nuttallii</i>	0.00	0.00	0.00	0.00	5.56
<i>Cirsium centaureae</i>	0.11	0.18	0.11	0.15	11.11
<i>Cirsium eatonii</i>	0.17	0.27	0.17	0.23	5.56
<i>Comandra umbellata</i> ssp. <i>pallida</i>	0.11	0.18	0.17	0.23	16.67
<i>Crepis acuminata</i>	0.06	0.09	0.06	0.08	16.67
<i>Erigeron eatonii</i> var. <i>eatonii</i>	0.00	0.00	0.00	0.00	38.89
<i>Erigeron engelmannii</i>	0.44	0.71	0.72	0.98	16.67
<i>Erigeron speciosus</i>	0.06	0.09	0.06	0.08	11.11
<i>Eriogonum jamesii</i>	0.17	0.27	0.17	0.23	11.11
<i>Eriogonum umbellatum</i>	0.28	0.44	0.78	1.06	22.22
<i>Helianthella uniflora</i>	0.61	0.98	0.72	0.98	44.44
<i>Helimeris multiflora</i>	0.72	1.15	0.78	1.06	38.89
<i>Heterotheca villosa</i>	0.00	0.00	0.00	0.00	5.56
<i>Lathyrus leucanthus</i>	0.06	0.09	0.11	0.15	22.22
<i>Linum lewisii</i>	0.00	0.00	0.00	0.00	5.56
<i>Lithospermum ruderales</i>	0.11	0.18	0.11	0.15	27.78

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE PERENNIAL FORBS (Cont'd)					
Lomatium macrocarpum	0.06	0.09	0.06	0.08	5.56
Lupinus argenteus	0.78	1.24	1.17	1.59	27.78
Lupinus caudatus	0.61	0.98	0.83	1.13	61.11
Machaeranthera canescens	0.06	0.09	0.11	0.15	22.22
Penstemon sp.	0.00	0.00	0.00	0.00	11.11
Penstemon strictus	0.00	0.00	0.00	0.00	11.11
Perideridia gairdneri ssp. borealis	0.78	1.24	0.83	1.13	72.22
Phlox longifolia	0.22	0.35	0.33	0.45	61.11
Pseudostellaria jamesiana	0.28	0.44	0.33	0.45	38.89
Senecio integerrimus	0.00	0.00	0.00	0.00	27.78
Stenotus armerioides	0.06	0.09	0.06	0.08	5.56
Symphyotrichum ascendens	0.33	0.53	0.61	0.83	27.78
Vicia americana	0.50	0.80	0.78	1.06	66.67
Wyethia amplexicaulis	0.72	1.15	0.94	1.28	16.67
TOTAL NATIVE PERENNIAL FORBS	11.1	17.7	15.1	20.5	100.0
INTRODUCED PERENNIAL FORBS					
Medicago sativa	0.00	0.00	0.00	0.00	5.56
Taraxacum officinale	0.06	0.09	0.06	0.08	11.11
TOTAL INTRODUCED PERENNIAL FORBS	0.1	0.1	0.1	0.1	16.7
NATIVE PERENNIAL GRASSES (c)					
Achnatherum lettermanii	0.22	0.35	0.22	0.30	22.22
Achnatherum nelsonii	0.06	0.09	0.06	0.08	22.22
Bromelica bulbosa	0.28	0.44	0.50	0.68	33.33
Bromus carinatus var. marginatus	0.72	1.15	1.00	1.36	66.67
Carex geeyeri	0.06	0.09	0.28	0.38	16.67
Carex sp.	0.11	0.18	0.11	0.15	5.56
Elymus elymoides	0.11	0.18	0.11	0.15	22.22
Elymus lanceolatus sp. lanceolatus	0.28	0.44	0.39	0.53	11.11
Elymus lanceolatus fm. albicans	0.06	0.09	0.11	0.15	11.11
Elymus trachycaulus	0.44	0.71	0.56	0.76	33.33
Hesperostipa comata	0.06	0.09	0.06	0.08	5.56
Koeleria macrantha	0.89	1.42	1.00	1.36	50.00
Nassella viridula	0.33	0.53	0.50	0.68	27.78
Pascopyrum smithii	1.22	1.95	1.50	2.04	61.11
Poa pratensis ssp. agassizensis	1.78	2.84	2.72	3.70	88.89
Poa secunda	0.61	0.98	0.67	0.91	66.67
Poa secunda ssp. juncifolia	0.17	0.27	0.17	0.23	5.56
Pseudoroegneria spicata ssp. inermis	0.11	0.18	0.28	0.38	5.56
Pseudoroegneria spicata ssp. spicata	1.78	2.84	2.33	3.17	72.22
TOTAL NATIVE PERENNIAL GRASSES (c)	9.3	14.8	12.6	17.1	100.0
INTRODUCED PERENNIAL GRASSES (c)					
Bromopsis inermis	0.06	0.09	0.06	0.08	22.22
Bromus riparius	0.06	0.09	0.06	0.08	5.56
Festuca ovina	0.22	0.35	0.33	0.45	11.11
Phleum pratense	0.00	0.00	0.00	0.00	5.56
Thinopyrum intermedium	1.06	1.68	1.17	1.59	16.67
TOTAL INTRODUCED PERENNIAL GRASSES (c)	1.4	2.2	1.6	2.2	44.4
NATIVE SHRUBS					
Amelanchier alnifolia	0.61	0.98	0.78	1.06	55.56
Artemisia arbuscula ssp. longiloba	0.00	0.00	0.00	0.00	5.56
Artemisia tridentata	21.61	34.49	22.56	30.66	100.00
Chrysothamnus viscidiflorus	1.78	2.84	2.11	2.87	72.22
Ericameria nauseosa	0.17	0.27	0.17	0.23	11.11

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE SHRUBS (Cont'd)					
Mahonia repens	0.00	0.00	0.00	0.00	11.11
Padus virginiana ssp. melanocarpa	0.44	0.71	0.61	0.83	16.67
Purshia tridentata	0.11	0.18	0.11	0.15	11.11
Quercus gambelii	0.39	0.62	0.39	0.53	11.11
Symphoricarpos rotundifolius	12.11	19.33	13.56	18.43	94.44
TOTAL NATIVE SHRUBS	37.2	59.4	40.3	54.8	100.0
PARASITES					
Orobanche multiflora	0.00	0.00	0.00	0.00	5.56
TOTAL PARASITES	0.0	0.0	0.0	0.0	5.6
Standing Dead	4.28	6.83	4.28	5.82	
Litter	21.11	33.69	21.11	28.70	
Bare Ground (Soil)	11.56	18.44	11.56	15.71	
Rock	0.39	0.62	0.39	0.53	
TOTALS	100	100	111	100	
TOTAL VEGETATION COVER	62.7		73.6		
Standard Deviation	10.477		13.272		
GROUND COVER (Litter+Rock+Veg+St.Dead)	88.4		99.3		
Standard Deviation	6.327		8.534		
SPECIES DENSITY (# of species/100 sq.m.)	28.6				
Standard Deviation	4.089				

^a First Hit Cover = Absolute percent cover in vertical view with no account of plants obscured by first (i.e. top) hit.

^b First Hit Relative Cover = Percent of the First Hit vegetation cover comprised of this species or lifeform

^c All Hit Cover = Absolute percent cover in vertical view accounting for all cover by the species or lifeform, whether over-arched by other plants or not

^d All Hit Relative Cover = Percent of the All Hit vegetation cover comprised of the species or lifeform

^e Frequency = Percent of the samples in which a species or lifeform occurred

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE ANNUAL AND BIENNIAL FORBS									
<i>Cirsium undulatum</i>						P		P	
<i>Collinsia parviflora</i>		P				P	1		P
<i>Collomia grandiflora</i>					P				
<i>Collomia linearis</i>	1	P	P			P		P	
<i>Cordylanthus ramosus</i>									
<i>Epilobium brachycarpum</i>	1	P	P						4
<i>Erigeron divergens</i>									
<i>Microsteris gracilis</i> ssp. <i>humilis</i>		2							
<i>Polygonum douglasii</i>		P	P	P	P	1	2		3
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	2	2	P	P	P	1	3	P	7
INTRODUCED ANNUAL AND BIENNIAL FORBS									
<i>Alyssum alyssoides</i>									P
<i>Alyssum desertorum</i>		P			P		P		
<i>Camelina microcarpa</i>	P							P	
<i>Carduus nutans</i> ssp. <i>macrolepis</i>				P					
<i>Chenopodium album</i>									
<i>Cynoglossum officinale</i>							P		
<i>Lactuca serriola</i>						P			P
<i>Lepidium perfoliatum</i>						1			
<i>Pocilla biloba</i>			1			P	P	1	
<i>Scorzonera laciniata</i>									1
<i>Sisymbrium altissimum</i>	P					P		P	P
<i>Thlaspi arvense</i>								P	P
<i>Tragopogon dubius</i> ssp. <i>major</i>		P	P	P		P		1	1
<i>Turritis glabra</i>		P	P	P	P	P			P
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	P	P	1	P	P	1	P	2	2
INTRODUCED ANNUAL GRASSES									
<i>Bromus arvensis</i>	2(1)	P		2		4	1	1	7
<i>Bromus tectorum</i>	P								
TOTAL INTRODUCED ANNUAL GRASSES	2(1)	P		2		4	1	1	7
NATIVE PERENNIAL FORBS									
<i>Achillea millefolium</i>	1	4	4(1)	1	(1)	1(1)	(1)	1(1)	2
<i>Agastache urticifolia</i>									
<i>Allium textile</i>	2	1		P	P	P		3	2
<i>Artemisia dracunculus</i>									
<i>Astragalus miser</i> var. <i>oblongifolius</i>	P			1	(1)	3			9(1)
<i>Balsamorhiza sagittata</i>		1(1)	P	4(2)		P		P	
<i>Boechera pulchra</i>	P								
<i>Calochortus nuttallii</i>				P					
<i>Cirsium centaureae</i>				2					P
<i>Cirsium eatonii</i>									
<i>Comandra umbellata</i> ssp. <i>pallida</i>					1		(1)		
<i>Crepis acuminata</i>						P		P	
<i>Erigeron eatonii</i> var. <i>eatonii</i>		P	P			P		P	
<i>Erigeron engelmannii</i>									
<i>Erigeron speciosus</i>					1		1(1)		
<i>Eriogonum jamesii</i>							2		
<i>Eriogonum umbellatum</i>	P				3(6)				
<i>Helianthella uniflora</i>	1	2		1		P		3	2(2)
<i>Helioneris multiflora</i>		P	3	P					
<i>Heterotheca villosa</i>									
<i>Lathyrus leucanthus</i>							P		
<i>Linum lewisii</i>				P					
<i>Lithospermum ruderales</i>	1	P			P				

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE PERENNIAL FORBS (Cont'd)									
Lomatium macrocarpum									
Lupinus argenteus			3	1			2		
Lupinus caudatus	P	5(1)			P	2		P	
Machaeranthera canescens			1(1)	P		P			
Penstemon sp.					P	P			
Penstemon strictus									
Perideridia gairdneri ssp. borealis	P	P	1	P		P		P	
Phlox longifolia	1	P		1(1)	P	P		1	
Pseudostellaria jamesiana		(1)	P			2	P		
Senecio integerrimus	P		P						
Stenotus armerioides						1			
Symphyotrichum ascendens	P			2(2)					P
Vicia americana		1	1(1)		P	P	P	4(2)	
Wyethia amplexicaulis	6(3)								P
TOTAL NATIVE PERENNIAL FORBS	12(3)	14(3)	13(3)	13(5)	5(8)	9(1)	5	12(3)	15(3)
INTRODUCED PERENNIAL FORBS									
Medicago sativa	P								
Taraxacum officinale						P			1
TOTAL INTRODUCED PERENNIAL FORBS	P					P			1
NATIVE PERENNIAL GRASSES (c)									
Achnatherum lettermanii	3								
Achnatherum nelsonii		P	1						
Bromelica bulbosa			1			(1)		1(1)	
Bromus carinatus var. marginatus	P	2	1			(1)	2(2)	1	
Carex gearyi		P							
Carex sp.					2				
Elymus elymoides								P	
Elymus lanceolatus sp. lanceolatus	3(2)								
Elymus lanceolatus fm. albicans				(1)					
Elymus trachycaulus		P							
Hesperostipa comata									
Koeleria macrantha	P			3		4		1	2(1)
Nassella viridula					3		(1)		
Pascopyrum smithii			3	P	5(1)	2(2)			2
Poa pratensis ssp. agassizensis	4	1(1)	2	1(1)	P	4(1)	1(2)	4	
Poa secunda			2	P	P	2		1	
Poa secunda ssp. juncifolia									
Pseudoroegneria spicata ssp. inermis				2(3)					
Pseudoroegneria spicata ssp. spicata	2(2)	P			2(1)	11(1)	1	10(1)	
TOTAL NATIVE PERENNIAL GRASSES (c)	12(4)	3(1)	10	6(5)	12(2)	23(6)	4	18(2)	4(1)
INTRODUCED PERENNIAL GRASSES (c)									
Bromopsis inermis		P							
Bromus riparius							1		
Festuca ovina									2
Phleum pratense									
Thinopyrum intermedium							16(1)		2(1)
TOTAL INTRODUCED PERENNIAL GRASSES (c)		P					17(1)		4(1)
NATIVE SHRUBS									
Amelanchier alnifolia	(1)	(1)		1(1)				2	1
Artemisia arbuscula ssp. longiloba									P
Artemisia tridentata	32	27	21	14(1)	18	26	17	27	7(1)
Chrysothamnus viscidiflorus	2	P	1	(1)	2	2		2(1)	
Ericameria nauseosa				P					

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE SHRUBS (Cont'd)									
Mahonia repens		P							
Padus virginiana ssp. melanocarpa					5(2)		2		
Purshia tridentata								1	
Quercus gambelii	P						7		
Symphoricarpos rotundifolius	5(2)	10(1)	30(2)	13(1)	14(1)	3(1)	2	3(2)	
TOTAL NATIVE SHRUBS	39(3)	37(2)	52(2)	28(4)	39(3)	31(1)	28	35(3)	8(1)
PARASITES									
Orobanche multiflora					P				
TOTAL PARASITES					P				
Standing Dead	1	7	5	1	4	11		9	1
Litter	27	28	15	22	26	13	30	4	39
Bare Ground (Soil)	5	8	4	23	14	7	12	19	12
Rock		1		5					
TOTALS	100(11)	100(6)	100(5)	100(14)	100(13)	100(8)	100(14)	100(8)	100(6)
TOTAL VEGETATION COVER	67(11)	56(6)	76(5)	49(14)	56(13)	69(8)	58(14)	68(8)	48(6)
Standard Deviation									
GROUND COVER (Litter+Rock+Veg+St.Dead)	95(11)	92(6)	96(5)	77(14)	86(13)	93(8)	88(14)	81(8)	88(6)
Standard Deviation									
SPECIES DENSITY (# of species/100 sq.m.)	31	33	25	31	26	39	24	30	26
Standard Deviation									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	10	11	12	13	14	15	16	17	18
NATIVE ANNUAL AND BIENNIAL FORBS									
Cirsium undulatum									
Collinsia parviflora		P	P	(1)		P		P	2
Collomia grandiflora							P		
Collomia linearis		P	P	(1)		P			P
Cordylanthus ramosus								1	
Epilobium brachycarpum	1		P		P	P			
Erigeron divergens	P								
Microsteris gracilis ssp. humilis									P
Polygonum douglasii			P	1		P	2		
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	1	P	P	1(2)	P	P	2	1	2
INTRODUCED ANNUAL AND BIENNIAL FORBS									
Alyssum alyssoides									
Alyssum desertorum	P				P	P	1		
Camelina microcarpa									
Carduus nutans ssp. macrolepis									
Chenopodium album							P		
Cynoglossum officinale				(1)		(1)			
Lactuca serriola	1		P					P	
Lepidium perfoliatum			P						
Pocilla biloba	P	1	1	P		P		1	1
Scorzonera laciniata	1	1						P	
Sisymbrium altissimum									
Thlaspi arvense									
Tragopogon dubius ssp. major	P		P	P		(1)		P	
Turritis glabra				P			P	P	P
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	2	2	1	(1)	P	(2)	1	1	1
INTRODUCED ANNUAL GRASSES									
Bromus arvensis	1	1	3(1)	1					6
Bromus tectorum				P					
TOTAL INTRODUCED ANNUAL GRASSES	1	1	3(1)	1					6
NATIVE PERENNIAL FORBS									
Achillea millefolium		P	3(1)	4(2)	4	1(1) 1	3	(1)	P
Agastache urticifolia									
Allium textile	P	P	P		P		P	1	P
Artemisia dracunculus				P					
Astragalus miser var. oblongifolius	(1)		P		(1)			3(2)	
Balsamorhiza sagittata	7(1)	1						(1)	1(1)
Boechera pulchra					P				
Calochortus nuttallii									
Cirsium centaureae									
Cirsium eatonii	3								
Comandra umbellata ssp. pallida							1		
Crepis acuminata			1						
Erigeron eatonii var. eatonii		P	P					P	
Erigeron engelmannii				P		7(4)			
Erigeron speciosus							P		
Eriogonum jamesii						1			
Eriogonum umbellatum						P	2(3)		
Helianthella uniflora			P		2				
Heliomeris multiflora				2	5	3(1)			P
Heterotheca villosa							P		
Lathyrus leucanthus					P	1(1)			
Linum lewisii									
Lithospermum ruderale			P				1		

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	10	11	12	13	14	15	16	17	18
NATIVE PERENNIAL FORBS (Cont'd)									
Lomatium macrocarpum	1								
Lupinus argenteus				2(7)		6			
Lupinus caudatus		1	P		P		P	3(2)	(1)
Machaeranthera canescens						P	P		
Penstemon sp.									
Penstemon strictus	P					P			
Perideridia gairdneri ssp. borealis		1(1)	1	3	1	1		5	1
Phlox longifolia	P		P	(1)	1				P
Pseudostellaria jamesiana		2				P			1
Senecio integerrimus		P						P	P
Stenotus armerioides									
Symphyotrichum ascendens	P				4(3)				
Vicia americana		1(1)	1			P	P	1	(1)
Wyethia amplexicaulis					7(1)				
TOTAL NATIVE PERENNIAL FORBS	11(2)	6(2)	6(1)	11(10)	24(5)	21(7)	7(3)	13(6)	3(3)
INTRODUCED PERENNIAL FORBS									
Medicago sativa									
Taraxacum officinale									
TOTAL INTRODUCED PERENNIAL FORBS									
NATIVE PERENNIAL GRASSES (c)									
Achnatherum lettermanii	1			P	P				
Achnatherum nelsonii			P					P	
Bromelica bulbosa		P	2(2)		1				
Bromus carinatus var. marginatus			1	P	2	1(1)		2(1)	1
Carex gearyi						(4)		1	
Carex sp.									
Elymus elymoides		P	P					2	
Elymus lanceolatus sp. lanceolatus					2				
Elymus lanceolatus fm. albicans						1			
Elymus trachycaulus		P		3(1)		2		3(1)	P
Hesperostipa comata							1		
Koeleria macrantha	5	1(1)	P					P	
Nassella viridula				1(1)		1	1(1)		
Pascopyrum smithii	3		2	P			4(2)	1	P
Poa pratensis ssp. agassizensis	1(1)	1	3(1)	2(2)	3	P		4(5)	1(3)
Poa secunda	4	(1)	P			P	P	1	1
Poa secunda ssp. juncifolia					3				
Pseudoroegneria spicata ssp. inermis									
Pseudoroegneria spicata ssp. spicata		P	2(1)	P	3	(1)	1(3)	P	
TOTAL NATIVE PERENNIAL GRASSES (c)	14(1)	2(2)	10(4)	6(4)	14	5(6)	7(6)	14(7)	3(3)
INTRODUCED PERENNIAL GRASSES (c)									
Bromopsis inermis	P		P				1		
Bromus riparius									
Festuca ovina									2(2)
Phleum pratense					P				
Thinopyrum intermedium	1								
TOTAL INTRODUCED PERENNIAL GRASSES (c)	1		P		P		1		2(2)
NATIVE SHRUBS									
Amelanchier alnifolia	3	3			P			P	1
Artemisia arbuscula ssp. longiloba									
Artemisia tridentata	8	25(1)	28	19(2)	7	19(3)	27	31(6)	36
Chrysothamnus viscidiflorus		6(1)	7(2)			3	P	2	5
Ericameria nauseosa		3							

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	10	11	12	13	14	15	16	17	18
NATIVE SHRUBS (Cont'd)									
Mahonia repens							P		
Padus virginiana ssp. melanocarpa							1		
Purshia tridentata			1						
Quercus gambelii									
Symphoricarpos rotundifolius	4	17(1)	8(1)	20(1)	30(4)	19(4)	7	21(4)	12(1)
TOTAL NATIVE SHRUBS	15	54(3)	44(3)	39(3)	37(4)	41(7)	35	54(10)	54(1)
PARASITES									
Orobanche multiflora									
TOTAL PARASITES									
Standing Dead	2	9	8	1	1	3	5	3	6
Litter	31	21	17	24	19	18	23	10	13
Bare Ground (Soil)	22	4	11	17	5	12	19	4	10
Rock		1							
TOTALS	100(3)	100(7)	100(9)	100(20)	100(9)	100(22)	100(9)	100(23)	100(9)
TOTAL VEGETATION COVER	45(3)	65(7)	64(9)	58(20)	75(9)	67(22)	53(9)	83(23)	71(9)
Standard Deviation									
GROUND COVER (Litter+Rock+Veg+St.Dead)	78(3)	96(7)	89(9)	83(20)	95(9)	88(22)	81(9)	96(23)	90(9)
Standard Deviation									
SPECIES DENSITY (# of species/100 sq.m.)	26	26	34	25	25	32	26	30	26
Standard Deviation									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

**Table A-5. Cover Data - Steep Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2022**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE ANNUAL AND BIENNIAL FORBS					
<i>Acrolasia</i> sp.	0.00	0.00	0.00	0.00	11.11
<i>Cirsium undulatum</i>	0.00	0.00	0.00	0.00	5.56
<i>Collinsia parviflora</i>	0.11	0.27	0.11	0.23	16.67
<i>Collomia linearis</i>	0.00	0.00	0.00	0.00	11.11
<i>Descurainia pinnata</i>	0.00	0.00	0.00	0.00	5.56
<i>Erigeron divergens</i>	0.00	0.00	0.00	0.00	11.11
<i>Lupinus brevicaulis</i>	0.06	0.13	0.06	0.12	5.56
<i>Microsteris gracilis</i> ssp. <i>humilis</i>	0.00	0.00	0.00	0.00	5.56
<i>Polygonum douglasii</i>	0.00	0.00	0.00	0.00	5.56
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	0.2	0.4	0.2	0.3	55.6
INTRODUCED ANNUAL AND BIENNIAL FORBS					
<i>Alyssum alyssoides</i>	1.00	2.41	1.28	2.68	22.22
<i>Alyssum desertorum</i>	0.17	0.40	0.17	0.35	27.78
<i>Alyssum parviflorum</i>	3.00	7.22	3.44	7.22	61.11
<i>Camelina microcarpa</i>	0.06	0.13	0.11	0.23	44.44
<i>Cynoglossum officinale</i>	0.00	0.00	0.00	0.00	5.56
<i>Lactuca serriola</i>	0.06	0.13	0.06	0.12	16.67
<i>Pocilla biloba</i>	0.00	0.00	0.00	0.00	5.56
<i>Scorzonera laciniata</i>	0.00	0.00	0.00	0.00	27.78
<i>Sisymbrium altissimum</i>	0.00	0.00	0.00	0.00	16.67
<i>Thlaspi arvense</i>	0.00	0.00	0.00	0.00	16.67
<i>Tragopogon dubius</i> ssp. <i>major</i>	0.06	0.13	0.06	0.12	44.44
<i>Turritis glabra</i>	0.00	0.00	0.00	0.00	5.56
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	4.3	10.4	5.1	10.7	94.4
INTRODUCED ANNUAL GRASSES					
<i>Bromus arvensis</i>	7.56	18.18	8.06	16.88	100.00
<i>Bromus tectorum</i>	2.06	4.95	2.50	5.24	77.78
<i>Poa bulbosa</i>	0.00	0.00	0.00	0.00	5.56
TOTAL INTRODUCED ANNUAL GRASSES	9.6	23.1	10.6	22.1	100.0
NATIVE PERENNIAL FORBS					
<i>Achillea millefolium</i>	0.06	0.13	0.06	0.12	11.11
<i>Allium textile</i>	0.06	0.13	0.06	0.12	33.33
<i>Artemisia ludoviciana</i>	0.06	0.13	0.06	0.12	5.56
<i>Aster</i> sp.	0.00	0.00	0.00	0.00	5.56
<i>Astragalus bisulcatus</i>	0.00	0.00	0.00	0.00	11.11
<i>Astragalus miser</i> var. <i>oblongifolius</i>	0.06	0.13	0.11	0.23	16.67
<i>Balsamorhiza sagittata</i>	1.06	2.54	1.28	2.68	88.89
<i>Calochortus nuttallii</i>	0.00	0.00	0.00	0.00	11.11
<i>Castilleja chromosa</i>	0.06	0.13	0.06	0.12	11.11
<i>Cirsium centaureae</i>	0.00	0.00	0.00	0.00	5.56
<i>Comandra umbellata</i> ssp. <i>pallida</i>	0.06	0.13	0.06	0.12	38.89
<i>Crepis acuminata</i>	0.00	0.00	0.00	0.00	5.56
<i>Crepis occidentalis</i>	0.00	0.00	0.00	0.00	27.78
<i>Erigeron eatonii</i> var. <i>eatonii</i>	0.00	0.00	0.00	0.00	5.56
<i>Eriogonum brevicaulis</i>	0.44	1.07	0.50	1.05	11.11
<i>Eriogonum umbellatum</i>	0.06	0.13	0.06	0.12	5.56
<i>Galium aparine</i>	0.11	0.27	0.11	0.23	22.22
<i>Helianthella uniflora</i>	0.28	0.67	0.50	1.05	38.89
<i>Helimeris multiflora</i>	0.00	0.00	0.00	0.00	5.56
<i>Lathyrus leucanthus</i>	0.00	0.00	0.06	0.12	33.33
<i>Linum lewisii</i>	0.33	0.80	0.33	0.70	27.78
<i>Lithospermum incisum</i>	0.00	0.00	0.00	0.00	5.56
<i>Lithospermum ruderales</i>	0.00	0.00	0.00	0.00	5.56
<i>Lomatium macrocarpum</i>	0.00	0.00	0.00	0.00	11.11

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

**Table A-5. Cover Data - Steep Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2022**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE PERENNIAL FORBS (Cont'd)					
<i>Lupinus argenteus</i>	0.00	0.00	0.00	0.00	5.56
<i>Lupinus caudatus</i>	0.00	0.00	0.00	0.00	5.56
<i>Machaeranthera canescens</i>	0.06	0.13	0.06	0.12	22.22
<i>Microseris nutans</i>	0.06	0.13	0.06	0.12	5.56
<i>Penstemon</i> sp.	0.00	0.00	0.00	0.00	5.56
<i>Penstemon strictus</i>	0.00	0.00	0.00	0.00	16.67
<i>Phlox longifolia</i>	0.22	0.53	0.22	0.47	33.33
<i>Physaria acutifolia</i>	0.00	0.00	0.00	0.00	22.22
<i>Senecio integerrimus</i>	0.00	0.00	0.00	0.00	5.56
<i>Senecio</i> sp.	0.00	0.00	0.00	0.00	38.89
<i>Solidago serotinoidea</i>	0.00	0.00	0.00	0.00	5.56
<i>Sphaeralcea coccinea</i>	0.06	0.13	0.06	0.12	16.67
<i>Stenotus armerioides</i>	0.22	0.53	0.22	0.47	5.56
<i>Vicia americana</i>	0.00	0.00	0.00	0.00	16.67
<i>Wyethia amplexicaulis</i>	0.06	0.13	0.11	0.23	5.56
TOTAL NATIVE PERENNIAL FORBS	3.3	7.9	3.9	8.3	100.0
INTRODUCED PERENNIAL FORBS					
<i>Medicago sativa</i>	0.00	0.00	0.00	0.00	5.56
TOTAL INTRODUCED PERENNIAL FORBS	0.0	0.0	0.0	0.0	5.6
NATIVE PERENNIAL GRASSES (c)					
<i>Achnatherum hymenoides</i>	0.61	1.47	0.83	1.75	72.22
<i>Achnatherum lettermanii</i>	0.00	0.00	0.00	0.00	5.56
<i>Achnatherum nelsonii</i>	0.00	0.00	0.00	0.00	5.56
<i>Bromelica bulbosa</i>	0.00	0.00	0.00	0.00	5.56
<i>Carex geeyeri</i>	0.11	0.27	0.11	0.23	11.11
<i>Elymus elymoides</i>	0.00	0.00	0.00	0.00	5.56
<i>Elymus lanceolatus</i> fm. <i>albicans</i>	0.33	0.80	0.39	0.81	38.89
<i>Elymus trachycaulus</i>	0.00	0.00	0.00	0.00	5.56
<i>Hesperostipa comata</i>	0.11	0.27	0.11	0.23	5.56
<i>Koeleria macrantha</i>	0.94	2.27	1.33	2.79	77.78
<i>Pascopyrum smithii</i>	0.72	1.74	1.17	2.44	66.67
<i>Poa pratensis</i> ssp. <i>agassizensis</i>	0.22	0.53	0.22	0.47	33.33
<i>Poa secunda</i>	1.00	2.41	1.06	2.21	66.67
<i>Pseudoroegneria spicata</i> ssp. <i>spicata</i>	4.56	10.96	5.61	11.76	100.00
TOTAL NATIVE PERENNIAL GRASSES (c)	8.6	20.7	10.8	22.7	100.0
INTRODUCED PERENNIAL GRASSES (c)					
<i>Bromopsis inermis</i>	0.44	1.07	0.50	1.05	11.11
<i>Bromus riparius</i>	0.06	0.13	0.06	0.12	5.56
<i>Festuca ovina</i>	0.33	0.80	0.33	0.70	5.56
<i>Thinopyrum intermedium</i>	0.39	0.94	0.39	0.81	16.67
TOTAL INTRODUCED PERENNIAL GRASSES (c)	1.2	2.9	1.3	2.7	27.8
NATIVE SUB-SHRUBS					
<i>Atriplex confertifolia</i>	0.06	0.13	0.06	0.12	5.56
<i>Gutierrezia sarothrae</i>	0.06	0.13	0.06	0.12	27.78
TOTAL NATIVE SUB-SHRUBS	0.1	0.3	0.1	0.2	33.3
NATIVE SHRUBS					
<i>Amelanchier alnifolia</i>	0.89	2.14	1.00	2.10	100.00
<i>Artemisia arbuscula</i> ssp. <i>longiloba</i>	0.00	0.00	0.00	0.00	5.56
<i>Artemisia tridentata</i>	6.78	16.31	7.22	15.13	100.00
<i>Atriplex canescens</i>	0.44	1.07	0.44	0.93	16.67
<i>Cercocarpus montanus</i>	1.67	4.01	1.67	3.49	61.11
<i>Chrysothamnus viscidiflorus</i>	0.50	1.20	0.61	1.28	61.11

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE SHRUBS (Cont'd)					
Ericameria nauseosa	0.06	0.13	0.06	0.12	11.11
Mahonia repens	0.06	0.13	0.06	0.12	22.22
Purshia tridentata	1.06	2.54	1.39	2.91	61.11
Quercus gambelii	1.00	2.41	1.06	2.21	38.89
Symphoricarpos rotundifolius	1.72	4.14	2.17	4.54	83.33
TOTAL NATIVE SHRUBS	14.2	34.1	15.7	32.8	100.0
LICHENS					
Lichen	0.06	0.13	0.06	0.12	5.56
TOTAL LICHENS	0.1	0.1	0.1	0.1	5.6
Standing Dead	2.06	4.95	2.06	4.31	
Litter	15.56	37.43	15.56	32.60	
Bare Ground (Soil)	30.39	73.13	30.39	63.68	
Rock	10.44	25.13	10.44	21.89	
TOTALS	100	100	106	100	
TOTAL VEGETATION COVER	41.6		47.7		
Standard Deviation	10.869		12.404		
GROUND COVER (Litter+Rock+Veg+St.Dead)	69.6		75.8		
Standard Deviation	11.288		12.572		
SPECIES DENSITY (# of species/100 sq.m.)	23.7				
Standard Deviation	6.210				

^a First Hit Cover = Absolute percent cover in vertical view with no account of plants obscured by first (i.e. top) hit.

^b First Hit Relative Cover = Percent of the First Hit vegetation cover comprised of this species or lifeform

^c All Hit Cover = Absolute percent cover in vertical view accounting for all cover by the species or lifeform, whether over-arched by other plants or not

^d All Hit Relative Cover = Percent of the All Hit vegetation cover comprised of the species or lifeform

^e Frequency = Percent of the samples in which a species or lifeform occurred

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE ANNUAL AND BIENNIAL FORBS									
Acrolasia sp.	P			P					
Cirsium undulatum						P			
Collinsia parviflora				P					
Collomia linearis						P	P		
Descurainia pinnata									
Erigeron divergens			P			P			
Lupinus brevicaulis									1
Microsteris gracilis ssp. humilis				P					
Polygonum douglasii		P							
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	P	P	P	P		P	P		1
INTRODUCED ANNUAL AND BIENNIAL FORBS									
Alyssum alyssoides	P								P
Alyssum desertorum							P	2	
Alyssum parviflorum	2	8(1)	P			P	P	8(5)	
Camelina microcarpa	(1)		P			P	P		
Cynoglossum officinale	P								
Lactuca serriola	P		P				1		
Pocilla biloba									P
Scorzonera laciniata	P				P				
Sisymbrium altissimum	P		P						
Thlaspi arvense			P			P	P		
Tragopogon dubius ssp. major	1	P	P		P	P			P
Turritis glabra									P
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	3(1)	8(1)	P		P	P	1	10(5)	P
INTRODUCED ANNUAL GRASSES									
Bromus arvensis	8(1)	16	10	3	3	11	3	3(1)	14(1)
Bromus tectorum	2	P	3(1)	1	1		(1)	9(3)	2(1)
Poa bulbosa									
TOTAL INTRODUCED ANNUAL GRASSES	10(1)	16	13(1)	4	4	11	3(1)	12(4)	16(2)
NATIVE PERENNIAL FORBS									
Achillea millefolium		P							
Allium textile	P					P	P		1
Artemisia ludoviciana								1	
Aster sp.									
Astragalus bisulcatus							P		
Astragalus miser var. oblongifolius						(1)	P		
Balsamorhiza sagittata	P	1(1)	P	P		3	P	(1)	2(2)
Calochortus nuttallii									
Castilleja chromosa									
Cirsium centaureae									
Comandra umbellata ssp. pallida	P			P	P				
Crepis acuminata									
Crepis occidentalis	P								P
Erigeron eatonii var. eatonii						P			
Eriogonum brevicaulis				P					
Eriogonum umbellatum							1		
Galium aparine						1			P
Helianthella uniflora		P	P			1(2)	3(1)		P
Helimeris multiflora							P		
Lathyrus leucanthus			P	P	P				P
Linum lewisii		5		P	P				1
Lithospermum incisum									
Lithospermum ruderales						P			
Lomatium macrocarpum							P		P

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE PERENNIAL FORBS (Cont'd)									
Lupinus argenteus						P			
Lupinus caudatus									
Machaeranthera canescens	1								
Microseris nutans							1		
Penstemon sp.						P			
Penstemon strictus				P	P				
Phlox longifolia					P	2	P		1
Physaria acutifolia				P	P				
Senecio integerrimus									
Senecio sp.		P	P			P	P		
Solidago serotinoidea					P				
Sphaeralcea coccinea								P	
Stenotus armerioides							4		
Vicia americana			P						
Wyethia amplexicaulis									1(1)
TOTAL NATIVE PERENNIAL FORBS	1	6(1)	P	P	P	7(3)	9(1)	1(1)	6(3)
INTRODUCED PERENNIAL FORBS									
Medicago sativa		P							
TOTAL INTRODUCED PERENNIAL FORBS		P							
NATIVE PERENNIAL GRASSES (c)									
Achnatherum hymenoides	P	1(1)	P	P	P	P	1	P	
Achnatherum lettermanii									
Achnatherum nelsonii						P			
Bromelica bulbosa						P			
Carex geyeri		P				2			
Elymus elymoides				P					
Elymus lanceolatus fm. albicans				P	2			(1)	
Elymus trachycaulus								P	
Hesperostipa comata									
Koeleria macrantha	2	(1)	1(1)	1	2(1)	1	1		P
Pascopyrum smithii	1(2)	P	P	(1)		P	2	P	P
Poa pratensis ssp. agassizensis			1			1	P		
Poa secunda	3	3	P	P		P	P	P	3
Pseudoroegneria spicata ssp. spicata	7	4(1)	10(1)	10(1)	6(3)	8(1)	P	(4)	2
TOTAL NATIVE PERENNIAL GRASSES (c)	13(2)	8(3)	12(2)	11(2)	10(4)	12(1)	4	0(5)	5
INTRODUCED PERENNIAL GRASSES (c)									
Bromopsis inermis		2							6(1)
Bromus riparius									1
Festuca ovina						6			
Thinopyrum intermedium			2		1		4		
TOTAL INTRODUCED PERENNIAL GRASSES (c)		2	2		1	6			7(1)
NATIVE SUB-SHRUBS									
Atriplex confertifolia									
Gutierrezia sarothrae			P	P	P		1		
TOTAL NATIVE SUB-SHRUBS			P	P	P		1		
NATIVE SHRUBS									
Amelanchier alnifolia	P	P	1	1	1(2)	2	1	P	2
Artemisia arbuscula ssp. longiloba							P		
Artemisia tridentata	18(1)	2	7	4	7	2	13(1)	3	14(2)
Atriplex canescens								5	
Cercocarpus montanus		3	P		3	P	P	3	
Chrysothamnus viscidiflorus		P	1	(1)	P	P	1		

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE SHRUBS (Cont'd)									
Ericameria nauseosa									
Mahonia repens	P					P			
Purshia tridentata		P	1	7(1)	3(2)	P	1		P
Quercus gambelii		P				10(1)	4	P	1
Symphoricarpos rotundifolius	P	10	1(1)	1		3	2	P	P
TOTAL NATIVE SHRUBS	18(1)	15	11(1)	13(2)	14(4)	17(1)	22(1)	11	17(2)
LICHENS									
Lichen									
TOTAL LICHENS									
Standing Dead	4	2	2	1	1	3	5		4
Litter	19	21	17	9	15	30	15	18	15
Bare Ground (Soil)	23	17	29	47	44	12	28	32	28
Rock	9	5	14	15	11	2	8	16	1
TOTALS	100(5)	100(5)	100(4)	100(4)	100(8)	100(5)	100(3)	100(15)	100(8)
TOTAL VEGETATION COVER	45(5)	55(5)	38(4)	28(4)	29(8)	53(5)	44(3)	34(15)	52(8)
Standard Deviation									
GROUND COVER (Litter+Rock+Veg+St.Dead)	77(5)	83(5)	71(4)	53(4)	56(8)	88(5)	72(3)	68(15)	72(8)
Standard Deviation									
SPECIES DENSITY (# of species/100 sq.m.)	25	25	29	25	22	37	36	19	28
Standard Deviation									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	10	11	12	13	14	15	16	17	18
NATIVE ANNUAL AND BIENNIAL FORBS									
Acrolasia sp.									
Cirsium undulatum									
Collinsia parviflora				1	1				
Collomia linearis									
Descurainia pinnata									P
Erigeron divergens									
Lupinus brevicaulis									
Microsteris gracilis ssp. humilis									
Polygonum douglasii									
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS				1	1				P
INTRODUCED ANNUAL AND BIENNIAL FORBS									
Alyssum alyssoides		1				17(5)			
Alyssum desertorum	P	P			1				
Alyssum parviflorum		P	8				9	7	12(2)
Camelina microcarpa	1	P		P	P				
Cynoglossum officinale									
Lactuca serriola									
Pocilla biloba									
Scorzonera laciniata		P		P	P				
Sisymbrium altissimum						P			
Thlaspi arvense									
Tragopogon dubius ssp. major	P			P					
Turritis glabra									
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	1	1	8	P	1	17(5)	9	7	12
INTRODUCED ANNUAL GRASSES									
Bromus arvensis	6	7(1)	9	13(1)	5(2)	13(2)	4	P	8
Bromus tectorum				4	2	1(1)	2(1)	3	7
Poa bulbosa					P				
TOTAL INTRODUCED ANNUAL GRASSES	6	7(1)	9	17(1)	7(2)	14(3)	6(1)	3	15
NATIVE PERENNIAL FORBS									
Achillea millefolium				1					
Allium textile				P		P			
Artemisia ludoviciana									
Aster sp.								P	
Astragalus bisulcatus		P							
Astragalus miser var. oblongifolius						1			
Balsamorhiza sagittata	1	3	2	P	P		P	2	5
Calochortus nuttallii	P				P				
Castilleja chromosa					1	P			
Cirsium centaureae						P			
Comandra umbellata ssp. pallida		P		1	P	P			
Crepis acuminata						P			
Crepis occidentalis	P	P	P						
Erigeron eatonii var. eatonii									
Eriogonum brevicaulis	8(1)								
Eriogonum umbellatum									
Galium aparine			1	P					
Helianthella uniflora				1(1)	P				
Helimeris multiflora									
Lathyrus leucanthus		P				(1)			
Linum lewisii									P
Lithospermum incisum					P				
Lithospermum ruderales									
Lomatium macrocarpum									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	10	11	12	13	14	15	16	17	18
NATIVE PERENNIAL FORBS (Cont'd)									
Lupinus argenteus				P					
Lupinus caudatus									
Machaeranthera canescens					P			P	P
Microseris nutans									
Penstemon sp.									
Penstemon strictus					P				
Phlox longifolia				P	1				
Physaria acutifolia	P							P	
Senecio integerrimus									P
Senecio sp.		P			P	P			
Solidago serotinoidea									
Sphaeralcea coccinea			P				1		
Stenotus armerioides									
Vicia americana		P		P					
Wyethia amplexicaulis									
TOTAL NATIVE PERENNIAL FORBS	9(1)	3	3	3(1)	2	1(1)	1	2	5
INTRODUCED PERENNIAL FORBS									
Medicago sativa									
TOTAL INTRODUCED PERENNIAL FORBS									
NATIVE PERENNIAL GRASSES (c)									
Achnatherum hymenoides	P		P				4(2)	3(1)	2
Achnatherum lettermanii			P						
Achnatherum nelsonii									
Bromelica bulbosa									
Carex geeyeri									
Elymus elymoides									
Elymus lanceolatus fm. albicans			P	2	2	P			
Elymus trachycaulus									
Hesperostipa comata								2	
Koeleria macrantha	P	2(1)	P	5	(2)	2(1)			
Pascopyrum smithii			P	3	1(3)	6(2)			
Poa pratensis ssp. agassizensis					1	1		P	
Poa secunda			(1)			P	1		8
Pseudoroegneria spicata ssp. spicata	5	11(1)	3	2(1)	2(2)	2(1)	3(1)	5(2)	2
TOTAL NATIVE PERENNIAL GRASSES (c)	5	13(2)	3(1)	12(1)	6(7)	11(4)	8(3)	10(3)	12
INTRODUCED PERENNIAL GRASSES (c)									
Bromopsis inermis									
Bromus riparius									
Festuca ovina									
Thinopyrum intermedium									
TOTAL INTRODUCED PERENNIAL GRASSES (c)									
NATIVE SUB-SHRUBS									
Atriplex confertifolia									1
Gutierrezia sarothrae	P								
TOTAL NATIVE SUB-SHRUBS	P								1
NATIVE SHRUBS									
Amelanchier alnifolia	P	P	2	1	1	1	1	1	1
Artemisia arbuscula ssp. longiloba									
Artemisia tridentata	1	6	6(1)	14	8(1)	9(1)	6(1)	1	1
Atriplex canescens			1				2		
Cercocarpus montanus	6		6				2	5	2
Chrysothamnus viscidiflorus	P	1		1		2			3

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	10	11	12	13	14	15	16	17	18
NATIVE SHRUBS (Cont'd)									
Ericameria nauseosa			P				1		
Mahonia repens				P	1				
Purshia tridentata	3	1(2)			2			1(1)	
Quercus gambelii		P				3			
Symphoricarpos rotundifolius		2	1(2)	6(2)	2	3(3)	P	P	
TOTAL NATIVE SHRUBS	10	10(2)	16(3)	22(2)	14(1)	18(4)	12(1)	8(1)	7
LICHENS									
Lichen						1			
TOTAL LICHENS						1			
Standing Dead		4	1	3	2	4		1	
Litter	2	16	12	25	16	13	11	15	11
Bare Ground (Soil)	43	33	32	17	44	16	34	47	21
Rock	24	13	16		7	5	19	7	16
TOTALS	100(1)	100(5)	100(4)	100(5)	100(10)	100(17)	100(5)	100(4)	100 (3)
TOTAL VEGETATION COVER	31(1)	34(5)	39(4)	55(5)	31(10)	62(17)	36(5)	30(4)	52 (3)
Standard Deviation									
GROUND COVER (Litter+Rock+Veg+St.Dead)	57(1)	67(5)	68(4)	83(5)	56(10)	84(17)	66(5)	53(4)	79 (3)
Standard Deviation									
SPECIES DENSITY (# of species/100 sq.m.)	18	21	19	24	27	24	16	16	16
Standard Deviation									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

**Table A-6. Cover Data - Western Wheat ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2022**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE ANNUAL AND BIENNIAL FORBS					
<i>Cirsium undulatum</i>	0.00	0.00	0.00	0.00	8.33
<i>Collinsia parviflora</i>	0.29	0.59	0.33	0.60	41.67
<i>Collomia linearis</i>	0.13	0.25	0.13	0.22	29.17
<i>Cordylanthus ramosus</i>	0.13	0.25	0.13	0.22	16.67
<i>Epilobium brachycarpum</i>	1.33	2.69	1.54	2.77	66.67
<i>Erigeron divergens</i>	0.13	0.25	0.17	0.30	29.17
<i>Grindelia squarrosa</i>	0.29	0.59	0.29	0.52	41.67
<i>Lepidium densiflorum</i>	0.00	0.00	0.00	0.00	4.17
<i>Lupinus brevicaulis</i>	0.00	0.00	0.00	0.00	4.17
<i>Microsteris gracilis</i> ssp. <i>humilis</i>	0.04	0.08	0.04	0.07	12.50
<i>Polygonum douglasii</i>	0.08	0.17	0.08	0.15	12.50
Native annual-biennial forb	0.08	0.17	0.08	0.15	16.67
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	2.5	5.1	2.8	5.0	83.3
INTRODUCED ANNUAL AND BIENNIAL FORBS					
<i>Alyssum desertorum</i>	0.13	0.25	0.13	0.22	50.00
<i>Alyssum parviflorum</i>	0.00	0.00	0.00	0.00	12.50
<i>Camelina microcarpa</i>	0.08	0.17	0.08	0.15	8.33
<i>Ceratocephala testiculata</i>	0.04	0.08	0.04	0.07	16.67
<i>Chenopodium album</i>	0.00	0.00	0.00	0.00	4.17
<i>Cynoglossum officinale</i>	0.00	0.00	0.00	0.00	4.17
<i>Lactuca serriola</i>	1.13	2.27	1.13	2.02	75.00
<i>Pocilla biloba</i>	0.25	0.51	0.33	0.60	75.00
<i>Polygonum arenastrum</i>	0.00	0.00	0.00	0.00	4.17
<i>Scorzonera laciniata</i>	0.88	1.77	1.08	1.94	66.67
<i>Sisymbrium altissimum</i>	0.04	0.08	0.04	0.07	4.17
<i>Thlaspi arvense</i>	0.00	0.00	0.00	0.00	8.33
<i>Tragopogon dubius</i> ssp. <i>major</i>	0.46	0.93	0.46	0.82	79.17
<i>Turritis glabra</i>	0.00	0.00	0.00	0.00	16.67
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	3.0	6.1	3.3	5.9	95.8
INTRODUCED ANNUAL GRASSES					
<i>Bromus arvensis</i>	3.83	7.74	4.17	7.48	70.83
<i>Poa bulbosa</i>	0.04	0.08	0.04	0.07	4.17
TOTAL INTRODUCED ANNUAL GRASSES	3.9	7.8	4.2	7.6	70.8
NATIVE PERENNIAL FORBS					
<i>Achillea millefolium</i>	0.42	0.84	0.58	1.05	66.67
<i>Agoseris glauca</i>	0.04	0.08	0.04	0.07	8.33
<i>Allium textile</i>	0.50	1.01	0.63	1.12	83.33
<i>Astragalus bisulcatus</i>	0.04	0.08	0.04	0.07	8.33
<i>Astragalus miser</i> var. <i>oblongifolius</i>	2.71	5.47	3.04	5.46	95.83
<i>Balsamorhiza sagittata</i>	1.42	2.86	1.63	2.92	66.67
<i>Calochortus nuttallii</i>	0.00	0.00	0.04	0.07	20.83
<i>Castilleja chromosa</i>	0.00	0.00	0.00	0.00	4.17
<i>Castilleja sulphurea</i>	0.00	0.00	0.00	0.00	4.17
<i>Cirsium centaureae</i>	0.38	0.76	0.50	0.90	45.83
<i>Comandra umbellata</i> ssp. <i>pallida</i>	0.00	0.00	0.00	0.00	8.33
<i>Crepis occidentalis</i>	0.00	0.00	0.00	0.00	4.17
<i>Eriogonum jamesii</i>	0.00	0.00	0.04	0.07	4.17
<i>Eriogonum umbellatum</i>	0.08	0.17	0.08	0.15	8.33
<i>Gayophytum diffusum</i> ssp. <i>parviflorum</i>	0.04	0.08	0.04	0.07	8.33
<i>Helianthella uniflora</i>	0.54	1.09	0.63	1.12	45.83
<i>Heliomeris multiflora</i>	0.08	0.17	0.08	0.15	4.17
<i>Linum lewisii</i>	0.04	0.08	0.04	0.07	33.33
<i>Lomatium macrocarpum</i>	0.13	0.25	0.13	0.22	25.00
<i>Lupinus argenteus</i>	0.04	0.08	0.17	0.30	12.50

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

**Table A-6. Cover Data - Western Wheat ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2022**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE PERENNIAL FORBS (Cont'd)					
<i>Lupinus caudatus</i>	0.04	0.08	0.08	0.15	4.17
<i>Machaeranthera canescens</i>	0.17	0.34	0.17	0.30	37.50
<i>Microseris nutans</i>	0.00	0.00	0.04	0.07	8.33
<i>Penstemon</i> sp.	0.00	0.00	0.00	0.00	8.33
<i>Penstemon strictus</i>	0.04	0.08	0.04	0.07	12.50
<i>Perideridia gairdneri</i> ssp. <i>borealis</i>	0.04	0.08	0.04	0.07	25.00
<i>Phlox hoodii</i> ssp. <i>canescens</i>	0.04	0.08	0.04	0.07	4.17
<i>Phlox longifolia</i>	0.83	1.68	0.83	1.50	70.83
<i>Physaria acutifolia</i>	0.04	0.08	0.04	0.07	8.33
<i>Senecio integerrimus</i>	0.04	0.08	0.08	0.15	16.67
<i>Senecio</i> sp.	0.00	0.00	0.00	0.00	29.17
<i>Solidago</i> sp.	0.04	0.08	0.04	0.07	4.17
<i>Sphaeralcea coccinea</i>	0.00	0.00	0.00	0.00	8.33
<i>Stenotus armerioides</i>	0.42	0.84	0.50	0.90	29.17
<i>Symphotrichum ascendens</i>	0.42	0.84	0.42	0.75	45.83
<i>Wyethia amplexicaulis</i>	2.17	4.38	2.38	4.26	16.67
TOTAL NATIVE PERENNIAL FORBS	10.8	21.7	12.4	22.3	100.0
INTRODUCED PERENNIAL FORBS					
<i>Linaria genistifolia</i> ssp. <i>dalmatica</i>	0.00	0.00	0.00	0.00	4.17
<i>Linum perenne</i>	0.08	0.17	0.08	0.15	12.50
<i>Medicago sativa</i>	0.00	0.00	0.00	0.00	4.17
<i>Taraxacum officinale</i>	0.25	0.51	0.25	0.45	66.67
TOTAL INTRODUCED PERENNIAL FORBS	0.3	0.7	0.3	0.6	66.7
NATIVE PERENNIAL GRASSES (c)					
<i>Achnatherum hymenoides</i>	0.00	0.00	0.00	0.00	4.17
<i>Achnatherum lettermanii</i>	2.08	4.21	2.25	4.04	41.67
<i>Bromelica bulbosa</i>	0.25	0.51	0.25	0.45	25.00
<i>Bromus carinatus</i> var. <i>marginatus</i>	0.08	0.17	0.08	0.15	8.33
<i>Carex geyeri</i>	0.04	0.08	0.04	0.07	4.17
<i>Carex</i> sp.	0.00	0.00	0.04	0.07	4.17
<i>Elymus elymoides</i>	0.00	0.00	0.04	0.07	8.33
<i>Elymus lanceolatus</i> fm. <i>albicans</i>	0.38	0.76	0.42	0.75	25.00
<i>Elymus trachycaulus</i>	0.33	0.67	0.46	0.82	25.00
<i>Koeleria macrantha</i>	3.63	7.32	4.21	7.55	91.67
<i>Nassella viridula</i>	0.08	0.17	0.13	0.22	8.33
<i>Pascopyrum smithii</i>	3.08	6.23	3.46	6.21	100.00
<i>Poa pratensis</i> ssp. <i>agassizensis</i>	0.21	0.42	0.38	0.67	45.83
<i>Poa secunda</i>	4.50	9.09	4.71	8.45	91.67
<i>Poa secunda</i> ssp. <i>juncifolia</i>	0.29	0.59	0.38	0.67	8.33
<i>Pseudoroegneria spicata</i> ssp. <i>inermis</i>	0.21	0.42	0.21	0.37	4.17
<i>Pseudoroegneria spicata</i> ssp. <i>spicata</i>	1.04	2.10	1.29	2.32	37.50
TOTAL NATIVE PERENNIAL GRASSES (c)	16.2	32.7	18.3	32.9	100.0
INTRODUCED PERENNIAL GRASSES (c)					
<i>Bromopsis inermis</i>	0.63	1.26	0.71	1.27	12.50
<i>Bromus riparius</i>	0.00	0.00	0.04	0.07	4.17
<i>Festuca ovina</i>	1.38	2.78	1.63	2.92	33.33
<i>Thinopyrum intermedium</i>	0.29	0.59	0.33	0.60	8.33
TOTAL INTRODUCED PERENNIAL GRASSES (c)	2.3	4.6	2.7	4.9	50.0
NATIVE SUB-SHRUBS					
<i>Gutierrezia sarothrae</i>	0.00	0.00	0.00	0.00	4.17
TOTAL NATIVE SUB-SHRUBS	0.0	0.0	0.0	0.0	4.2

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE SHRUBS					
Amelanchier alnifolia	0.58	1.18	0.71	1.27	41.67
Artemisia arbuscula ssp. longiloba	2.42	4.88	2.88	5.16	62.50
Artemisia tridentata	5.63	11.36	5.83	10.47	70.83
Chrysothamnus viscidiflorus	0.67	1.35	0.83	1.50	41.67
Krascheninnikovia lanata	0.00	0.00	0.00	0.00	4.17
Mahonia repens	0.00	0.00	0.00	0.00	4.17
Symphoricarpos rotundifolius	1.21	2.44	1.33	2.39	62.50
TOTAL NATIVE SHRUBS	10.5	21.2	11.6	20.8	100.0
NATIVE SUCCULENTS					
Opuntia polyacantha	0.00	0.00	0.00	0.00	8.33
TOTAL NATIVE SUCCULENTS	0.0	0.0	0.0	0.0	8.3
BRYOPHYTES					
Moss	0.04	0.08	0.04	0.07	4.17
TOTAL BRYOPHYTES	0.0	0.1	0.0	0.1	4.2
LICHENS					
Lichen	0.00	0.00	0.00	0.00	4.17
TOTAL LICHENS	0.0	0.0	0.0	0.0	4.2
Standing Dead	1.29		1.29		
Litter	26.63		26.63		
Bare Ground (Soil)	22.08		22.08		
Rock	0.50		0.50		
TOTALS	100		106		
TOTAL VEGETATION COVER	49.5		55.7		
<i>Standard Deviation</i>	11.045		12.892		
GROUND COVER (Litter+Rock+Veg+St.Dead)	77.9		84.1		
<i>Standard Deviation</i>	9.422		11.195		
SPECIES DENSITY (# of species/100 sq.m.)	26.6				
<i>Standard Deviation</i>	5.609				

^a First Hit Cover = Absolute percent cover in vertical view with no account of plants obscured by first (i.e. top) hit.

^b First Hit Relative Cover = Percent of the First Hit vegetation cover comprised of this species or lifeform

^c All Hit Cover = Absolute percent cover in vertical view accounting for all cover by the species or lifeform, whether over-arched by other plants or not

^d All Hit Relative Cover = Percent of the All Hit vegetation cover comprised of the species or lifeform

^e Frequency = Percent of the samples in which a species or lifeform occurred

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE ANNUAL AND BIENNIAL FORBS									
Cirsium undulatum					P			P	
Collinsia parviflora	P	P	1	1		P		4	
Collomia linearis		1	P		1			P	
Cordylanthus ramosus			P						
Epilobium brachycarpum	P	P	P	P	2	1	4(1)	2(2)	
Erigeron divergens			1			2			
Grindelia squarrosa		P				P	P	P	
Lepidium densiflorum									
Lupinus brevicaulis				P					
Microsteris gracilis ssp. humilis			P	1		P			
Polygonum douglasii									
Native annual-biennial forb			1						
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	P	1	3	2	3	3	4(1)	6(2)	
INTRODUCED ANNUAL AND BIENNIAL FORBS									
Alyssum desertorum	P		P	1		P			2
Alyssum parviflorum	P	P						P	
Camelina microcarpa									
Ceratocephala testiculata		P			P	P			
Chenopodium album									
Cynoglossum officinale									
Lactuca serriola	P	2	P	P	P	1	3	1	P
Pocilla biloba	(1)	P		1	1	P	P	P	
Polygonum arenastrum									
Scorzonera laciniata		3(1)	1	P	6(3)	1		2	1
Sisymbrium altissimum									
Thlaspi arvense									
Tragopogon dubius ssp. major	P		1		P	P	2	P	P
Turritis glabra						P	P		
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	(1)	5(1)	2	2	7(3)	2	5	3	3
INTRODUCED ANNUAL GRASSES									
Bromus arvensis	1	12	P	P	6	7			6(7)
Poa bulbosa	1								
TOTAL INTRODUCED ANNUAL GRASSES	2	12	P	P	6	7			6(7)
NATIVE PERENNIAL FORBS									
Achillea millefolium		P	1	P	P	2	P	1	1(1)
Agoseris glauca					P				
Allium textile	P	P	2	P		P	4	P	(1)
Astragalus bisulcatus			1			P			
Astragalus miser var. oblongifolius	1	1	4	5(1)	11(1)	P	2	2	1(1)
Balsamorhiza sagittata	6	1	P	2(2)	1	3	2	1	(1)
Calochortus nuttallii									P
Castilleja chromosa									
Castilleja sulphurea									
Cirsium centaureae	P		P	P		5(1)	P		
Comandra umbellata ssp. pallida									
Crepis occidentalis			P						
Eriogonum jamesii									
Eriogonum umbellatum									
Gayophytum diffusum ssp. parviflorum									P
Helianthella uniflora	P					P	1	P	3(2)
Heliomeris multiflora									
Linum lewisii	P			P		P	P		
Lomatium macrocarpum						1			
Lupinus argenteus									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE PERENNIAL FORBS (Cont'd)									
Lupinus caudatus				1(1)					
Machaeranthera canescens			P	P		P			1
Microseris nutans							(1)		
Penstemon sp.				P					
Penstemon strictus									
Perideridia gairdneri ssp. borealis					P			P	
Phlox hoodii ssp. canescens				1					
Phlox longifolia	P	P	P	P		1		P	1
Physaria acutifolia				P					
Senecio integerrimus		(1)			P			P	
Senecio sp.	P		P				P		
Solidago sp.				1					
Sphaeralcea coccinea									
Stenotus armerioides			4(1)	2		P			
Symphyotrichum ascendens		1					P	P	
Wyethia amplexicaulis									P
TOTAL NATIVE PERENNIAL FORBS	7	3(1)	12(1)	12	12(1)	12(1)	9(1)	4	7(6)
INTRODUCED PERENNIAL FORBS									
Linaria genistifolia ssp. dalmatica					P				
Linum perenne									
Medicago sativa									
Taraxacum officinale	1	P	1		2			P	P
TOTAL INTRODUCED PERENNIAL FORBS	1	P	1		2			P	P
NATIVE PERENNIAL GRASSES (c)									
Achnatherum hymenoides				P					
Achnatherum lettermanii					P		7	23	
Bromelica bulbosa				P	P				
Bromus carinatus var. marginatus									
Carex geyseri									
Carex sp.									
Elymus elymoides									
Elymus lanceolatus fm. albicans	P			P					
Elymus trachycaulus							3(1)	2	
Koeleria macrantha	1	P	8(3)	5(1)	5(2)	5(1)	P	7	
Nassella viridula									
Pascopyrum smithii	P	1	(1)	P	9	(1)	5(1)	6	4(2)
Poa pratensis ssp. agassizensis				(1)		P			1(1)
Poa secunda		14(2)	3	1	17	P	1	3	6(2)
Poa secunda ssp. juncifolia									
Pseudoroegneria spicata ssp. inermis									
Pseudoroegneria spicata ssp. spicata	P			(1)		1	2	10	
TOTAL NATIVE PERENNIAL GRASSES (c)	1	15(2)	11(4)	6	31(2)	6(2)	18(2)	51	11(5)
INTRODUCED PERENNIAL GRASSES (c)									
Bromopsis inermis									1
Bromus riparius									
Festuca ovina	15(3)		P	P		P	4(2)		
Thinopyrum intermedium	7(1)								
TOTAL INTRODUCED PERENNIAL GRASSES (c)	22(4)		P	P		P	4(2)		1
NATIVE SUB-SHRUBS									
Gutierrezia sarothrae			P						
TOTAL NATIVE SUB-SHRUBS			P						

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE SHRUBS									
Amelanchier alnifolia	3	4(1)				P		(1)	
Artemisia arbuscula ssp. longiloba		13(7)	1				P	1(1)	
Artemisia tridentata	7(1)		9	17	1	2	P		25
Chrysothamnus viscidiflorus	2			3		1			P
Krascheninnikovia lanata									
Mahonia repens	P								
Symphoricarpos rotundifolius	3(1)	P	P	3					2
TOTAL NATIVE SHRUBS	15(2)	17(8)	10	23	1	3	P	1(2)	27
NATIVE SUCCULENTS									
Opuntia polyacantha		P							
TOTAL NATIVE SUCCULENTS		P							
BRYOPHYTES									
Moss									
TOTAL BRYOPHYTES									
LICHENS									
Lichen									
TOTAL LICHENS									
Standing Dead			2	2		4	1		
Litter	18	27	30	29	21	35	26	25	24
Bare Ground (Soil)	33	19	28	23	17	28	33	10	21
Rock	1	1	1	1					
TOTALS	100(7)	100(12)	100(5)	100(9)	100(6)	100(3)	100(6)	100(4)	100(18)
TOTAL VEGETATION COVER	48(7)	53(12)	39(5)	45(9)	62(6)	33(3)	40(6)	65(4)	55(18)
Standard Deviation									
GROUND COVER (Litter+Rock+Veg+St.Dead)	67(7)	81(12)	72(5)	77(9)	83(6)	72(3)	67(6)	90(4)	79(18)
Standard Deviation									
SPECIES DENSITY (# of species/100 sq.m.)	29	25	32	35	23	34	25	29	23
Standard Deviation									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	10	11	12	13	14	15	16	17	18
NATIVE ANNUAL AND BIENNIAL FORBS									
Cirsium undulatum									
Collinsia parviflora			(1)	P		1			
Collomia linearis	1		P			P			
Cordylanthus ramosus	P								
Epilobium brachycarpum			2	3	P	5(1)			1(1)
Erigeron divergens	P						P	P	
Grindelia squarrosa			P		1	1			
Lepidium densiflorum						P			
Lupinus brevicaulis									
Microsteris gracilis ssp. humilis									
Polygonum douglasii				2					
Native annual-biennial forb	1						P		
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	2		2(1)	5	1	7(1)	P	P	1(1)
INTRODUCED ANNUAL AND BIENNIAL FORBS									
Alyssum desertorum	P		P				P		
Alyssum parviflorum									
Camelina microcarpa									
Ceratocephala testiculata	1								
Chenopodium album									
Cynoglossum officinale						P			
Lactuca serriola			P		3	4		P	6
Pocilla biloba			P	P	P	P		1	P
Polygonum arenastrum									
Scorzonera laciniata		1	1		P			2(1)	2
Sisymbrium altissimum						1			
Thlaspi arvense						P			
Tragopogon dubius ssp. major	2	1	2	P		P		1	1
Turritis glabra				P					
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	3	2	3	P	3	5		4(1)	9
INTRODUCED ANNUAL GRASSES									
Bromus arvensis	4	8	2	P				14(1)	2
Poa bulbosa									
TOTAL INTRODUCED ANNUAL GRASSES	4	8	2	P				14(1)	2
NATIVE PERENNIAL FORBS									
Achillea millefolium			1(1)			2(1)	P		
Agoseris glauca									
Allium textile		P	1(1)		P	2		P	P
Astragalus bisulcatus									
Astragalus miser var. oblongifolius	4	2	6(2)	1	2	6	6(1)	1	P
Balsamorhiza sagittata	3	1			1		8(2)	1	
Calochortus nuttallii		P					P		
Castilleja chromosa								P	
Castilleja sulphurea		P							
Cirsium centaureae	P	2(1)			(1)			P	
Comandra umbellata ssp. pallida	P								
Crepis occidentalis									
Eriogonum jamesii									
Eriogonum umbellatum							1		
Gayophytum diffusum ssp. parviflorum					1				
Helianthella uniflora			2					3	P
Helioneris multiflora						2			
Linum lewisii	P						P		
Lomatium macrocarpum							P	P	
Lupinus argenteus									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	10	11	12	13	14	15	16	17	18
NATIVE PERENNIAL FORBS (Cont'd)									
Lupinus caudatus									
Machaeranthera canescens		2	P				P		
Microseris nutans								P	
Penstemon sp.									
Penstemon strictus	1						P		
Perideridia gairdneri ssp. borealis				P		1			
Phlox hoodii ssp. canescens									
Phlox longifolia	1		2	P			P		1
Physaria acutifolia									
Senecio integerrimus									
Senecio sp.			P				P		
Solidago sp.									
Sphaeralcea coccinea	P								
Stenotus armerioides	1						1(1)		
Symphyotrichum ascendens			2	1	P	2		3	1
Wyethia amplexicaulis				41(3)		6			
TOTAL NATIVE PERENNIAL FORBS	10	7(1)	14(4)	43(3)	4(1)	21(1)	16(4)	8	2
INTRODUCED PERENNIAL FORBS									
Linaria genistifolia ssp. dalmatica									
Linum perenne	P						2		
Medicago sativa									P
Taraxacum officinale	P	P	2		P		P		P
TOTAL INTRODUCED PERENNIAL FORBS	P	P	2		P		2		P
NATIVE PERENNIAL GRASSES (c)									
Achnatherum hymenoides									
Achnatherum lettermanii			2(2)	2		9			
Bromelica bulbosa			P			1			
Bromus carinatus var. marginatus			P						
Carex geyseri									
Carex sp.									
Elymus elymoides								P	
Elymus lanceolatus fm. albicans	P						5(1)		
Elymus trachycaulus				(1)	1				
Koeleria macrantha	6(1)	1	5(1)		1	P	9	1	3
Nassella viridula		2			(1)				
Pascopyrum smithii	7	2	7	1	3	5	4	P	3
Poa pratensis ssp. agassizensis	P	P	1			P	1		
Poa secunda	1	12	4	3	6	6		6	9
Poa secunda ssp. juncifolia				6(2)					
Pseudoroegneria spicata ssp. inermis									
Pseudoroegneria spicata ssp. spicata	5(2)		1(1)				5(2)		
TOTAL NATIVE PERENNIAL GRASSES (c)	19(3)	17	20(4)	12(3)	11(1)	21	24(3)	7	15
INTRODUCED PERENNIAL GRASSES (c)									
Bromopsis inermis		12(2)						2	
Bromus riparius	(1)								
Festuca ovina			10(1)	P	4				
Thinopyrum intermedium								P	
TOTAL INTRODUCED PERENNIAL GRASSES (c)	(1)	12(2)	10(1)	P	4			2	
NATIVE SUB-SHRUBS									
Gutierrezia sarothrae									
TOTAL NATIVE SUB-SHRUBS									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	10	11	12	13	14	15	16	17	18
NATIVE SHRUBS									
Amelanchier alnifolia	P				3				
Artemisia arbuscula ssp. longiloba	7(1)	P	3	1	2			8	2
Artemisia tridentata	5(1)	14(1)		P		2	14	2(1)	
Chrysothamnus viscidiflorus	5(1)		P				1(1)		
Krascheninnikovia lanata									
Mahonia repens									
Symphoricarpos rotundifolius	P		P	P	1	1	(1)		
TOTAL NATIVE SHRUBS	17(3)	14(1)	3	1	6	3	15(2)	10(1)	2
NATIVE SUCCULENTS									
Opuntia polyacantha									P
TOTAL NATIVE SUCCULENTS									P
BRYOPHYTES									
Moss									
TOTAL BRYOPHYTES									
LICHENS									
Lichen									
TOTAL LICHENS									
Standing Dead	3	1	3			1	2	3	
Litter	19	25	30	24	26	21	23	37	45
Bare Ground (Soil)	22	14	11	15	45	21	16	15	24
Rock	1						2		
TOTALS	100(7)	100(4)	100(10)	100(6)	100(2)	100(2)	100(9)	100(3)	100(1)
TOTAL VEGETATION COVER	55(7)	60(4)	56(10)	61(6)	29(2)	57(2)	57(9)	45(3)	31(1)
Standard Deviation									
GROUND COVER (Litter+Rock+Veg+St.Dead)	78(7)	86(4)	89(10)	85(6)	55(2)	79(2)	84(9)	85(3)	76(1)
Standard Deviation									
SPECIES DENSITY (# of species/100 sq.m.)	31	19	31	21	21	26	25	23	18
Standard Deviation									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---					
	19	20	21	22	23	24
NATIVE ANNUAL AND BIENNIAL FORBS						
Cirsium undulatum						
Collinsia parviflora		P				
Collomia linearis						
Cordylanthus ramosus		P		3		
Epilobium brachycarpum	9	P	3			
Erigeron divergens	(1)	P				
Grindelia squarrosa	2	P	3			
Lepidium densiflorum						
Lupinus brevicaulis						
Microsteris gracilis ssp. humilis						
Polygonum douglasii			P	P		
Native annual-biennial forb		P				
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	11(1)	P	6	3		
INTRODUCED ANNUAL AND BIENNIAL FORBS						
Alyssum desertorum		P		P	P	P
Alyssum parviflorum						
Camelina microcarpa			1		1	
Ceratocephala testiculata						
Chenopodium album	P					
Cynoglossum officinale						
Lactuca serriola	4		2		1	P
Pocilla biloba	P		1(1)	P	P	2
Polygonum arenastrum	P					
Scorzonera laciniata	P	P	P		1	
Sisymbrium altissimum						
Thlaspi arvense			P			
Tragopogon dubius ssp. major	P	P	P		1	P
Turritis glabra						P
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	4	P	4(1)	P	4	2
INTRODUCED ANNUAL GRASSES						
Bromus arvensis	1		1		25	3
Poa bulbosa						
TOTAL INTRODUCED ANNUAL GRASSES	1		1		25	3
NATIVE PERENNIAL FORBS						
Achillea millefolium	P	P		1	P	1(1)
Agoseris glauca						1
Allium textile	P	P	3(1)	P	P	P
Astragalus bisulcatus						
Astragalus miser var. oblongifolius	1	1	3(1)		1(1)	4
Balsamorhiza sagittata	2	2				
Calochortus nuttallii		P		(1)		
Castilleja chromosa						
Castilleja sulphurea						
Cirsium centaureae	P	2				
Comandra umbellata ssp. pallida		P				
Crepis occidentalis						
Eriogonum jamesii				(1)		
Eriogonum umbellatum		1				
Gayophytum diffusum ssp. parviflorum						
Helianthella uniflora			P		3	1
Helioneris multiflora						
Linum lewisii		1		P		
Lomatium macrocarpum	1	P	1			
Lupinus argenteus		P		1(2)		(1)

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---					
	19	20	21	22	23	24
NATIVE PERENNIAL FORBS (Cont'd)						
Lupinus caudatus						
Machaeranthera canescens	1					P
Microseris nutans						
Penstemon sp.						P
Penstemon strictus		P				
Perideridia gairdneri ssp. borealis			P			P
Phlox hoodii ssp. canescens						
Phlox longifolia		3	4	2	4	1
Physaria acutifolia		1				
Senecio integerrimus						1
Senecio sp.		P	P			
Solidago sp.						
Sphaeralcea coccinea		P				
Stenotus armerioides		2		P		
Symphyotrichum ascendens			P			P
Wyethia amplexicaulis						5(2)
TOTAL NATIVE PERENNIAL FORBS	5	13	11(2)	4(4)	8(1)	14(4)
INTRODUCED PERENNIAL FORBS						
Linaria genistifolia ssp. dalmatica						
Linum perenne		P				
Medicago sativa						
Taraxacum officinale	P	P		P		P
TOTAL INTRODUCED PERENNIAL FORBS	P	P		P		P
NATIVE PERENNIAL GRASSES (c)						
Achnatherum hymenoides						
Achnatherum lettermanii	1		4(1)		1(1)	1
Bromelica bulbosa			1			4
Bromus carinatus var. marginatus						2
Carex geyeri						1
Carex sp.				(1)		
Elymus elymoides				(1)		
Elymus lanceolatus fm. albicans		3		1		
Elymus trachycaulus			1(1)			1
Koeleria macrantha	8(1)	10	3(2)	2(1)	4(1)	3
Nassella viridula						
Pascopyrum smithii	1	P	5(1)	4	5(2)	2(1)
Poa pratensis ssp. agassizensis			P	1(2)		1
Poa secunda	P	4	4	1	1(1)	6
Poa secunda ssp. juncifolia			1			
Pseudoroegneria spicata ssp. inermis				5		
Pseudoroegneria spicata ssp. spicata		1				
TOTAL NATIVE PERENNIAL GRASSES (c)	10(1)	18	19(5)	14(5)	11(5)	21(1)
INTRODUCED PERENNIAL GRASSES (c)						
Bromopsis inermis						
Bromus riparius						
Festuca ovina						
Thinopyrum intermedium						
TOTAL INTRODUCED PERENNIAL GRASSES (c)						
NATIVE SUB-SHRUBS						
Gutierrezia sarothrae						
TOTAL NATIVE SUB-SHRUBS						

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover					
	---Sample Number---					
	19	20	21	22	23	24
NATIVE SHRUBS						
Amelanchier alnifolia		(1)	P	P		4
Artemisia arbuscula ssp. longiloba	9	2	6(2)		3	
Artemisia tridentata	P	3		24(1)		10
Chrysothamnus viscidiflorus		3(1)		1		P
Krascheninnikovia lanata		P				
Mahonia repens						
Symphoricarpos rotundifolius		1		P	1	17
TOTAL NATIVE SHRUBS	9	9(2)	6(2)	25(1)	4	31
NATIVE SUCCULENTS						
Opuntia polyacantha						
TOTAL NATIVE SUCCULENTS						
BRYOPHYTES						
Moss				1		
TOTAL BRYOPHYTES				1		
LICHENS						
Lichen				P		
TOTAL LICHENS				P		
Standing Dead	1	3	1	4		
Litter	25	18	26	34	27	24
Bare Ground (Soil)	32	37	26	14	21	5
Rock	2	2		1		
TOTALS	100(2)	100(2)	100(10)	100(10)	100(6)	100(5)
TOTAL VEGETATION COVER	40(2)	40(2)	47(10)	47(10)	52(6)	71(5)
Standard Deviation						
GROUND COVER (Litter+Rock+Veg+St.Dead)	68(2)	63(2)	74(10)	86(10)	79(6)	95(5)
Standard Deviation						
SPECIES DENSITY (# of species/100 sq.m.)	24	39	28	27	18	33
Standard Deviation						

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	AVERAGE PRODUCTION (gms/0.5m ²)	AVERAGE PRODUCTION (lb/acre)	FREQUENCY (%)	Production (gm/0.5 m ²) ---Sample Number---									
				01	02	03	04	05	06	07	08	09	10
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	0.7	13.1	31.3	10.9	1	1.8	T	3.6				2.2	
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	6.4	114.6	71.9	T		1.7		1.3	50.6		T	T	2.1
TOTAL ANNUAL GRASSES	0.2	2.7	15.6			1.5		3.3				T	T
TOTAL NATIVE PERENNIAL FORBS	2.0	36.5	37.5		1.8	6.1	1						T
TOTAL INTRODUCED PERENNIAL FORBS	4.6	82.0	28.1					6..2	T				
TOTAL NATIVE PERENNIAL GRASSES (c)	14.5	259.0	56.3	7.5	86.6		2	14.4			48.3	30.1	15.3
TOTAL INTRODUCED PERENNIAL GRASSES (c)	63.5	1,133.3	68.8	28.8		36.8	75		54.9	135.9			188.3
TOTAL PRODUCTION	92.0	1,641.2		47.2	89.4	47.9	78.0	22.6	105.5	135.9	48.3	32.3	205.7
<i>Standard Deviation</i>	<i>59.457</i>	<i>1,060.947</i>											

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	Production (gm/0.5 m ²)														
	---Sample Number---														
	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	T														
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	1.5	30.3	3	10	T	14.1	14.3		0.6				7.8		45.4
TOTAL ANNUAL GRASSES	T														
TOTAL NATIVE PERENNIAL FORBS		8.9	26.1		T			1.8			0.4			T	
TOTAL INTRODUCED PERENNIAL FORBS					87.6		7.4	T		2.2		23.2	8.1	T	
TOTAL NATIVE PERENNIAL GRASSES (c)	30.2	26.7	2.8		13.1		22						4.4		8
TOTAL INTRODUCED PERENNIAL GRASSES (c)	46.1	9.7		56.7		27.8		233.3	192.1	99.7	189	151.8	27.9	50	
TOTAL PRODUCTION	77.8	75.6	31.9	66.7	100.7	41.9	43.7	235.1	192.7	101.9	189.4	175.0	48.2	50.0	53.4
Standard Deviation															

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	Production (gm/0.5 m ²)						
	---Sample Number---						
	26	27	28	29	30	31	32
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS		0.6			3.3		T
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS		1.9	T	14	1.3	4	1.6
TOTAL ANNUAL GRASSES							
TOTAL NATIVE PERENNIAL FORBS		0.8				18.5	
TOTAL INTRODUCED PERENNIAL FORBS		18.6					
TOTAL NATIVE PERENNIAL GRASSES (c)	28.4	53			27.3		44.4
TOTAL INTRODUCED PERENNIAL GRASSES (c)	125.5		77.2	85.5	3	137.4	
TOTAL PRODUCTION	173.3	55.5	77.2	99.5	34.9	159.9	46.0
<i>Standard Deviation</i>							

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	AVERAGE PRODUCTION (gms/0.5m ²)	AVERAGE PRODUCTION (lb/acre)	FREQUENCY (%)	Production (gm/0.5 m ²) ---Sample Number---									
				01	02	03	04	05	06	07	08	09	10
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	0.5	9.5	34.4		T	T		2	1.2				
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	0.0	0.0	9.4		T								
TOTAL NATIVE PERENNIAL FORBS	23.0	409.7	100.0	11	8.4	21	3	18.9	35	12.8	12.6	36.8	32.1
TOTAL INTRODUCED PERENNIAL FORBS	0.1	1.1	6.3						1.9				
TOTAL NATIVE PERENNIAL GRASSES (c)	4.7	84.1	81.3	8.1	8.8		16.7	3.2			T	2	T
TOTAL INTRODUCED PERENNIAL GRASSES (c)	7.8	138.9	31.3					T		29.7			
TOTAL PRODUCTION	36.0	643.3		19.1	17.2	21.0	19.7	24.1	38.1	42.5	12.6	38.8	32.1
<i>Standard Deviation</i>	<i>16.634</i>	<i>296.809</i>											

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	Production (gm/0.5 m ²)														
	---Sample Number---														
	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	T														
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	T														
TOTAL NATIVE PERENNIAL FORBS	34.1	14.8	21.1	14.4	22.4	7.3	28	70.6	4.8	22.8	11	24.2	2.4	31.2	10.5
TOTAL INTRODUCED PERENNIAL FORBS	T														
TOTAL NATIVE PERENNIAL GRASSES (c)	4.9	T	16.2	0.6	8.4	T		18.8	T	T	20.3	T			T
TOTAL INTRODUCED PERENNIAL GRASSES (c)	8.2														
TOTAL PRODUCTION	39.0	23.0	37.3	15.0	30.8	30.5	28.0	89.4	51.8	22.8	45.7	24.2	43.1	54.8	60.9
Standard Deviation															

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

Table A-8. Production Data - Aspen ERA, Phase III Bond Release Evaluation, Seneca 2W SPL, Routt County, CO - 2022

PLANT SPECIES	Production (gm/0.5 m ²)						
	---Sample Number---						
	26	27	28	29	30	31	32
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	2.2 T						
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	T						
TOTAL NATIVE PERENNIAL FORBS	24	30.3	42.8	12.4	51.5	33.3	29.3
TOTAL INTRODUCED PERENNIAL FORBS							
TOTAL NATIVE PERENNIAL GRASSES (c)	2.3	5.7	12.6	8.2	1.8	10.1	2
TOTAL INTRODUCED PERENNIAL GRASSES (c)	23.4						
TOTAL PRODUCTION	26.3	38.2	55.4	20.6	53.3	43.4	54.7
Standard Deviation							

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	AVERAGE PRODUCTION (gms/0.5m ²)	AVERAGE PRODUCTION (lb/acre)	FREQUENCY (%)	Production (gm/0.5 m ²) ---Sample Number---									
				01	02	03	04	05	06	07	08	09	10
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	0.9	16.9	31.3	11.9	0.5		9.8	T	3.9	0.6			
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	0.7	11.7	9.4										
TOTAL ANNUAL GRASSES	0.0	0.2	15.6	T	0.3		T	T	T				
TOTAL NATIVE PERENNIAL FORBS	10.4	185.4	78.1	T	75.4	4.2	10.9	21	4.3		10.8	0.6	21
TOTAL INTRODUCED PERENNIAL FORBS	0.1	1.4	3.1										
TOTAL NATIVE PERENNIAL GRASSES (c)	12.6	224.7	93.8	6.9	1.5	9.3	3.5	27.9	8.9	6.3	16.2	10.7	20.7
TOTAL INTRODUCED PERENNIAL GRASSES (c)	1.2	21.1	12.5					16.7					
TOTAL PRODUCTION	25.9	461.4		18.8	77.7	13.5	24.2	65.6	17.1	6.9	27.0	11.3	41.7
Standard Deviation	24.209	431.975											

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	Production (gm/0.5 m ²)														
	---Sample Number---														
	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	2.7									0.8					
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS								0.4			20.5		T		
TOTAL ANNUAL GRASSES															
TOTAL NATIVE PERENNIAL FORBS	2.7	0.8		3.9		3.5			T		2.8		74.7	33.3	55.8
TOTAL INTRODUCED PERENNIAL FORBS							2.6								
TOTAL NATIVE PERENNIAL GRASSES (c)	6.9	15.2	29	6.2	5.4	4.5	7.4		4.2	10.3	18.5		T	12.6	37.1
TOTAL INTRODUCED PERENNIAL GRASSES (c)								10.1					T		
TOTAL PRODUCTION	12.3	16.0	29.0	10.1	5.4	8.0	10.0	10.1	4.6	11.1	21.3	20.5	74.7	45.9	92.9
Standard Deviation															

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	Production (gm/0.5 m ²)						
	---Sample Number---						
	26	27	28	29	30	31	32
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	T			T			
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS							
TOTAL ANNUAL GRASSES							
TOTAL NATIVE PERENNIAL FORBS	T	0.2	T	T	1.7	4.9	T
TOTAL INTRODUCED PERENNIAL FORBS							
TOTAL NATIVE PERENNIAL GRASSES (c)	3.1	24.2	5.1	2	9.8	22.5	67
TOTAL INTRODUCED PERENNIAL GRASSES (c)	11.1						
TOTAL PRODUCTION	3.1	24.4	5.1	13.1	11.5	27.4	67.0
Standard Deviation							

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	AVERAGE PRODUCTION (gms/0.5m ²)	AVERAGE PRODUCTION (lb/acre)	FREQUENCY (%)	Production (gm/0.5 m ²) ---Sample Number---									
				01	02	03	04	05	06	07	08	09	10
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	0.5	8.6	53.1				T	2.6	7.8	T		T	0.9
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	0.2	3.3	31.3	2.8					T		T		
TOTAL ANNUAL GRASSES	0.5	9.7	21.9								T		
TOTAL NATIVE PERENNIAL FORBS	15.4	274.5	100.0	16	3.4	T	1.1	11.3	34.5	9.8	5.6	7.6	13.3
TOTAL INTRODUCED PERENNIAL FORBS	0.0	0.0	3.1	T									
TOTAL NATIVE PERENNIAL GRASSES (c)	16.2	288.6	87.5	49.9			49.7	9.1		10.3	15	114.5	6.2
TOTAL INTRODUCED PERENNIAL GRASSES (c)	7.7	138.1	15.6			175			41.7				
TOTAL PRODUCTION	40.5	722.8		68.7	3.4	175.0	50.8	23.0	84.0	20.1	20.6	122.1	20.4
<i>Standard Deviation</i>	35.786	638.562											

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	Production (gm/0.5 m ²)														
	---Sample Number---														
	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS		T	T	T	T		4	T		T			T		T
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS			T			T	1.9				1.1				
TOTAL ANNUAL GRASSES		T				T	13.4	T					T		
TOTAL NATIVE PERENNIAL FORBS	6.7	22	2.5	7.2	36.4	5.1	6	9.3	68.9	44.2	19.1	11	8.2	21	10.2
TOTAL INTRODUCED PERENNIAL FORBS															
TOTAL NATIVE PERENNIAL GRASSES (c)	4.2	33.5		T	5.1	21.3	2.5	31.6	6.4	8.6	T	63.1	23.1	3.1	1.7
TOTAL INTRODUCED PERENNIAL GRASSES (c)											8.6				
TOTAL PRODUCTION	10.9	55.5	2.5	7.2	41.5	26.4	27.8	40.9	75.3	52.8	28.8	74.1	31.3	24.1	11.9
Standard Deviation															

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

Table A-10. Production Data - Sagebrush ERA, Phase III Bond Release Evaluation, Seneca 2W SPL, Routt County, CO - 2022

PLANT SPECIES	Production (gm/0.5 m ²)						
	---Sample Number---						
	26	27	28	29	30	31	32
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	T						T
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	T						T
TOTAL ANNUAL GRASSES							4
TOTAL NATIVE PERENNIAL FORBS	24.9	24	20.5	15.1	5	4.6	17.7
TOTAL INTRODUCED PERENNIAL FORBS							
TOTAL NATIVE PERENNIAL GRASSES (c)	12.8	1	16.4	1.6	8.3	7.6	11
TOTAL INTRODUCED PERENNIAL GRASSES (c)	12.7						9.7
TOTAL PRODUCTION	37.7	25.0	36.9	16.7	26.0	21.9	32.7
Standard Deviation							

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

Table A-11. Production Data - Steep Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W SPL, Routt County, CO - 2022

PLANT SPECIES	AVERAGE PRODUCTION (gms/0.5m ²)	AVERAGE PRODUCTION (lb/acre)	FREQUENCY (%)	Production (gm/0.5 m ²) ---Sample Number---									
				01	02	03	04	05	06	07	08	09	10
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	0.0	0.4	46.9	T			T	0.6	T		T		
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	1.9	34.5	43.8	1.7		T	T	T	31.1	1			0.4
TOTAL ANNUAL GRASSES	0.7	12.7	53.1	9.2	T	T	T	T		T		T	
TOTAL NATIVE PERENNIAL FORBS	6.0	107.9	84.4	11.5	2.8		4.5		13.7		3.3	1.5	20.2
TOTAL NATIVE PERENNIAL GRASSES (c)	28.6	510.6	93.8	0.9	31.5	244.9	56.1	26.1		15	28.8	35.3	10.9
TOTAL INTRODUCED PERENNIAL GRASSES (c)	0.0	0.7	3.1						1.2				
TOTAL PRODUCTION	37.4	666.8		23.3	34.3	244.9	60.6	26.7	46.0	16.0	32.1	36.8	31.5
Standard Deviation	41.374	738.266											

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	Production (gm/0.5 m ²)														
	---Sample Number---														
	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	T	T				T	T		T			T	T		
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	0.6				25									T	T
TOTAL ANNUAL GRASSES	3.3		T			T	T					T		T	T
TOTAL NATIVE PERENNIAL FORBS	37.3	17.9		3.2	21.1	1.1	6.5	T	1	T	10.5	T		1.6	16
TOTAL NATIVE PERENNIAL GRASSES (c)	6.3	17.7	8.6	12.5	3.9	45.7	16	34.2	23.5	53.6	3.3	81.1	16.6	9.2	23
TOTAL INTRODUCED PERENNIAL GRASSES (c)															
TOTAL PRODUCTION	47.5	35.6	8.6	15.7	50.0	46.8	22.5	34.2	24.5	53.6	13.8	81.1	16.6	10.8	39.0
Standard Deviation															

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

Table A-11. Production Data - Steep Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W SPL, Routt County, CO - 2022

PLANT SPECIES	Production (gm/0.5 m ²)						
	---Sample Number---						
	26	27	28	29	30	31	32
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	T			T	T		
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS		2		T	T		
TOTAL ANNUAL GRASSES		6.1		T	4.1		
TOTAL NATIVE PERENNIAL FORBS	0.7	T	2.3	2.5	10.9	T	3.3
TOTAL NATIVE PERENNIAL GRASSES (c)	11.6	5.1	10.7	30.5	16.2	28.9	8
TOTAL INTRODUCED PERENNIAL GRASSES (c)							
TOTAL PRODUCTION	12.3	13.2	13.0	33.0	31.2	28.9	11.3
Standard Deviation							

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	AVERAGE PRODUCTION (gms/0.5m ²)	AVERAGE PRODUCTION (lb/acre)	FREQUENCY (%)	Production (gm/0.5 m ²) ---Sample Number---									
				01	02	03	04	05	06	07	08	09	10
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	0.8	14.8	68.8	0.6		4.7	0.9	0.5		T	1.2	T	T
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	0.8	14.7	62.5	0.5	T	T		T		0.6	T	3.4	3.5
TOTAL ANNUAL GRASSES	1.4	25.3	28.1			T							2.4
TOTAL NATIVE PERENNIAL FORBS	10.2	182.4	87.5	20.4	T	T	29.4	14.7		3.4	3.2	2	25.1
TOTAL INTRODUCED PERENNIAL FORBS	0.1	1.3	6.3										
TOTAL NATIVE PERENNIAL GRASSES (c)	12.4	222.1	93.8	5.7	9.6	7.4	14.5	6.9	6.7	4.1	11.7	33.7	1.8
TOTAL INTRODUCED PERENNIAL GRASSES (c)	0.9	16.6	12.5							0.7			
TOTAL PRODUCTION	26.7	477.1		27.2	9.6	12.1	44.8	22.1	6.7	8.8	16.1	39.1	32.8
<i>Standard Deviation</i>	<i>18.496</i>	<i>330.048</i>											

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	Production (gm/0.5 m ²)														
	---Sample Number---														
	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	T				6.3	3	2.4		1.5	1	2.1		T	T	T
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	0.5	T	10.7			2.1	T		0.3	T	T		T	T	T
TOTAL ANNUAL GRASSES							T		T	21.7		T	2.8		0.7
TOTAL NATIVE PERENNIAL FORBS	12.1			2.5	T		43.9	16	11.3	16	0.7	50.6	2.7	T	5.3
TOTAL INTRODUCED PERENNIAL FORBS								2.3		T					
TOTAL NATIVE PERENNIAL GRASSES (c)	10.9	14.9	T	11.3	13.3	17.5	2.9	5.9	2.4	13	32	9.4	18.2	95.1	13.7
TOTAL INTRODUCED PERENNIAL GRASSES (c)			6.4												
TOTAL PRODUCTION	23.5	14.9	17.1	13.8	19.6	22.6	49.2	21.9	17.8	51.7	34.8	60.0	23.7	95.1	19.7
Standard Deviation															

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	Production (gm/0.5 m ²)						
	---Sample Number---						
	26	27	28	29	30	31	32
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	T	2.3	T		T		
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	4.7						
TOTAL ANNUAL GRASSES	17.7						
TOTAL NATIVE PERENNIAL FORBS	T	7.9	1	7.8	20.3	2	28.7
TOTAL INTRODUCED PERENNIAL FORBS							
TOTAL NATIVE PERENNIAL GRASSES (c)	T	18.4		2.1	5.6	9.5	
TOTAL INTRODUCED PERENNIAL GRASSES (c)			8.3				14.3
TOTAL PRODUCTION	22.4	28.6	9.3	9.9	25.9	11.5	43.0
<i>Standard Deviation</i>							

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

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PLANT SPECIES	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
NATIVE SHRUBS															
Artemisia cana								143							
Artemisia tridentata	9	5	9	4	11	19	6	5	5	2			16	8	52
Chrysothamnus viscidiflorus															
Ericameria nauseosa			1	1						76	4		3		
Purshia tridentata			5				2				2				
Rosa woodsii															
Symphoricarpos rotundifolius					1	2									18
TOTAL NATIVE SHRUBS	9.0	5.0	15.0	5.0	12.0	21.0	8.0	148.0	5.0	78.0	6.0		19.0	8.0	70.0
TOTAL DENSITY	9.0	5.0	15.0	5.0	12.0	21.0	8.0	148.0	5.0	78.0	6.0		19.0	8.0	70.0
Standard Deviation															
SPECIES DENSITY (# of species/100 sq.m.)	1	1	3	2	2	2	2	2	1	2	2		2	1	2
Standard Deviation															

PLANT SPECIES	26	27	28	29	30	31	32
NATIVE SHRUBS							
Artemisia cana		118					
Artemisia tridentata	6	1	2	4	6	11	1
Chrysothamnus viscidiflorus		1					
Ericameria nauseosa						51	4
Purshia tridentata				16			
Rosa woodsii	1						
Symphoricarpos rotundifolius							
TOTAL NATIVE SHRUBS	7.0	120.0	2.0	20.0	6.0	62.0	5.0
TOTAL DENSITY	7.0	120.0	2.0	20.0	6.0	62.0	5.0
Standard Deviation							
SPECIES DENSITY (# of species/100 sq.m.)	2	3	1	2	1	2	2
Standard Deviation							

**Table B-1. Cover Data - Bond Release Block 6, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2023**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE ANNUAL AND BIENNIAL FORBS					
<i>Collinsia parviflora</i>	0.03	0.05	0.03	0.05	3.13
<i>Collomia grandiflora</i>	0.09	0.16	0.09	0.15	12.50
<i>Collomia linearis</i>	0.13	0.21	0.13	0.20	37.50
<i>Epilobium brachycarpum</i>	0.31	0.54	0.31	0.49	31.25
<i>Grindelia squarrosa</i>	0.53	0.91	0.56	0.89	43.75
<i>Helianthus annuus</i>	0.00	0.00	0.00	0.00	3.13
<i>Polygonum douglasii</i>	0.00	0.00	0.00	0.00	6.25
Native Annual/Biennial Forb	0.00	0.00	0.00	0.00	3.13
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	1.1	1.9	1.1	1.8	78.1
INTRODUCED ANNUAL AND BIENNIAL FORBS					
<i>Alyssum alyssoides</i>	0.03	0.05	0.03	0.05	9.38
<i>Alyssum desertorum</i>	0.03	0.05	0.03	0.05	12.50
<i>Alyssum parviflorum</i>	0.44	0.75	0.50	0.79	21.88
<i>Bassia sieversiana</i>	0.00	0.00	0.00	0.00	3.13
<i>Cynoglossum officinale</i>	0.06	0.11	0.06	0.10	34.38
<i>Lactuca serriola</i>	1.03	1.77	1.28	2.03	71.88
<i>Lepidium perfoliatum</i>	0.16	0.27	0.22	0.35	9.38
<i>Madia glomerata</i>	0.00	0.00	0.00	0.00	3.13
<i>Medicago lupulina</i>	0.03	0.05	0.03	0.05	3.13
<i>Melilotus officinalis</i>	3.59	6.15	3.84	6.08	59.38
<i>Pocilla biloba</i>	1.50	2.57	1.72	2.72	71.88
<i>Polygonum arenastrum</i>	0.06	0.11	0.06	0.10	3.13
<i>Scorzonera laciniata</i>	0.09	0.16	0.09	0.15	12.50
<i>Sisymbrium altissimum</i>	0.06	0.11	0.06	0.10	9.38
<i>Thlaspi arvense</i>	0.00	0.00	0.00	0.00	12.50
<i>Tragopogon dubius ssp. major</i>	0.28	0.48	0.31	0.49	71.88
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	7.4	12.6	8.3	13.0	100.0
INTRODUCED ANNUAL GRASSES					
<i>Bromus arvensis</i>	1.72	2.94	1.88	2.96	59.38
<i>Poa bulbosa</i>	0.31	0.54	0.38	0.59	15.63
TOTAL INTRODUCED ANNUAL GRASSES	2.0	3.5	2.3	3.6	68.8
NATIVE PERENNIAL FORBS					
<i>Achillea millefolium</i>	1.03	1.77	1.34	2.12	71.88
<i>Allium textile</i>	0.13	0.21	0.13	0.20	12.50
<i>Aster lanceolatus ssp. hesperius</i>	0.00	0.00	0.00	0.00	3.13
<i>Astragalus miser var. oblongifolius</i>	0.03	0.05	0.03	0.05	9.38
<i>Astragalus sp.</i>	0.00	0.00	0.00	0.00	3.13
<i>Balsamorhiza sagittata</i>	0.25	0.43	0.28	0.44	34.38
<i>Calochortus nuttallii</i>	0.00	0.00	0.00	0.00	3.13
<i>Cirsium sp.</i>	0.03	0.05	0.03	0.05	6.25
<i>Crepis occidentalis</i>	0.09	0.16	0.09	0.15	9.38
<i>Eriogonum umbellatum</i>	0.00	0.00	0.00	0.00	3.13
<i>Galium aparine</i>	0.03	0.05	0.03	0.05	3.13
<i>Gayophytum diffusum ssp. parviflorum</i>	0.16	0.27	0.16	0.25	12.50
<i>Helianthella uniflora</i>	0.03	0.05	0.03	0.05	6.25
<i>Heliomeris multiflora</i>	0.00	0.00	0.00	0.00	6.25
<i>Heterotheca villosa</i>	0.00	0.00	0.00	0.00	6.25
<i>Linum lewisii</i>	0.31	0.54	0.31	0.49	28.13
<i>Lotus corniculatus</i>	0.03	0.05	0.03	0.05	9.38
<i>Lupinus argenteus</i>	0.06	0.11	0.06	0.10	6.25
<i>Machaeranthera canescens</i>	0.00	0.00	0.00	0.00	3.13
<i>Microseris nutans</i>	0.03	0.05	0.03	0.05	9.38
<i>Nothocalais sp.</i>	0.09	0.16	0.13	0.20	9.38
<i>Oxybaphus linearis</i>	0.00	0.00	0.00	0.00	3.13

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

**Table B-1. Cover Data - Bond Release Block 6, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2023**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE PERENNIAL FORBS (Cont'd)					
<i>Penstemon sp.</i>	0.16	0.27	0.16	0.25	34.38
<i>Perideridia gairdneri ssp. borealis</i>	0.06	0.11	0.06	0.10	21.88
<i>Phlox longifolia</i>	0.00	0.00	0.00	0.00	3.13
<i>Physaria acutifolia</i>	0.00	0.00	0.00	0.00	3.13
<i>Senecio integerrimus</i>	0.00	0.00	0.00	0.00	3.13
<i>Symphyotrichum ascendens</i>	0.22	0.37	0.28	0.44	6.25
<i>Vicia americana</i>	0.03	0.05	0.03	0.05	18.75
TOTAL NATIVE PERENNIAL FORBS	2.8	4.8	3.2	5.1	93.8
INTRODUCED PERENNIAL FORBS					
<i>Astragalus cicer</i>	0.28	0.48	0.38	0.59	34.38
<i>Cirsium arvense</i>	0.00	0.00	0.03	0.05	6.25
<i>Convolvulus arvensis</i>	0.03	0.05	0.03	0.05	3.13
<i>Medicago sativa</i>	6.78	11.61	7.09	11.22	84.38
<i>Rumex crispus</i>	0.03	0.05	0.03	0.05	9.38
TOTAL INTRODUCED PERENNIAL FORBS	7.1	12.2	7.6	12.0	84.4
NATIVE PERENNIAL GRASSES (c)					
<i>Achnatherum lettermanii</i>	0.25	0.43	0.25	0.40	3.13
<i>Agrostis scabra</i>	0.03	0.05	0.03	0.05	15.63
<i>Bromelica bulbosa</i>	0.00	0.00	0.00	0.00	3.13
<i>Bromus carinatus var. marginatus</i>	0.00	0.00	0.00	0.00	3.13
<i>Elymus elymoides</i>	0.00	0.00	0.00	0.00	3.13
<i>Elymus lanceolatus sp. lanceolatus</i>	2.06	3.53	2.13	3.36	31.25
<i>Elymus trachycaulus</i>	0.09	0.16	0.09	0.15	6.25
<i>Koeleria macrantha</i>	0.19	0.32	0.19	0.30	3.13
<i>Leymus cinereus</i>	1.41	2.41	1.41	2.22	56.25
<i>Nassella viridula</i>	0.06	0.11	0.06	0.10	6.25
<i>Pascopyrum smithii</i>	9.78	16.75	10.28	16.25	96.88
<i>Phalaroides arundinacea</i>	0.38	0.64	0.38	0.59	6.25
<i>Poa compressa</i>	0.06	0.11	0.06	0.10	9.38
<i>Poa secunda</i>	0.16	0.27	0.16	0.25	18.75
<i>Pseudoroegneria spicata ssp. inermis</i>	0.28	0.48	0.38	0.59	15.63
<i>Pseudoroegneria spicata ssp. spicata</i>	0.41	0.70	0.41	0.64	15.63
TOTAL NATIVE PERENNIAL GRASSES (c)	15.2	25.9	15.8	25.0	100.0
INTRODUCED PERENNIAL GRASSES (c)					
<i>Agropyron cristatum</i>	0.03	0.05	0.03	0.05	21.88
<i>Alopecurus pratensis</i>	0.03	0.05	0.03	0.05	6.25
<i>Bromopsis inermis</i>	4.72	8.08	5.09	8.05	59.38
<i>Dactylis glomerata</i>	0.06	0.11	0.06	0.10	9.38
<i>Festuca ovina</i>	1.97	3.37	2.56	4.05	34.38
<i>Phleum pratense</i>	0.06	0.11	0.06	0.10	15.63
<i>Poa pratensis ssp. pratensis</i>	0.94	1.61	1.00	1.58	40.63
<i>Thinopyrum intermedium</i>	12.09	20.71	13.06	20.65	78.13
TOTAL INTRODUCED PERENNIAL GRASSES (c)	19.9	34.1	21.9	34.6	100.0
NATIVE SUB-SHRUBS					
<i>Gutierrezia sarothrae</i>	0.00	0.00	0.00	0.00	9.38
TOTAL NATIVE SUB-SHRUBS	0.0	0.0	0.0	0.0	9.4

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE SHRUBS					
<i>Amelanchier alnifolia</i>	0.03	0.05	0.03	0.05	6.25
<i>Artemisia cana</i>	0.28	0.48	0.31	0.49	6.25
<i>Artemisia tridentata</i>	1.00	1.71	1.09	1.73	62.50
<i>Ericameria nauseosa</i>	1.34	2.30	1.41	2.22	25.00
<i>Purshia tridentata</i>	0.25	0.43	0.25	0.40	15.63
<i>Symphoricarpos rotundifolius</i>	0.00	0.00	0.00	0.00	18.75
TOTAL NATIVE SHRUBS	2.9	5.0	3.1	4.9	68.8
BRYOPHYTES					
Moss	0.03	0.05	0.03	0.05	6.25
TOTAL BRYOPHYTES	0.0	0.1	0.0	0.0	6.3
Standing Dead	1.28		1.28		
Litter	26.19		26.19		
Bare Ground (Soil)	11.44		11.44		
Rock	2.69		2.69		
TOTALS	100		105		
TOTAL VEGETATION COVER	58.4		63.3		
Standard Deviation	8.431		10.055		
GROUND COVER (Litter+Rock+Veg+St.Dead)	88.6		93.4		
Standard Deviation	7.457		7.674		
SPECIES DENSITY (# of species/100 sq.m.)	18.2				
Standard Deviation	5.440				

^a First Hit Cover = Absolute percent cover in vertical view with no account of plants obscured by first (i.e. top) hit.

^b First Hit Relative Cover = Percent of the First Hit vegetation cover comprised of this species or lifeform

^c All Hit Cover = Absolute percent cover in vertical view accounting for all cover by the species or lifeform, whether over-arched by other plants or not

^d All Hit Relative Cover = Percent of the All Hit vegetation cover comprised of the species or lifeform

^e Frequency = Percent of the samples in which a species or lifeform occurred

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE ANNUAL AND BIENNIAL FORBS									
<i>Collinsia parviflora</i>								P	
<i>Collomia grandiflora</i>									
<i>Collomia linearis</i>				P	1				
<i>Epilobium brachycarpum</i>				P	1				
<i>Grindelia squarrosa</i>	P				P				10(1)
<i>Helianthus annuus</i>									
<i>Polygonum douglasii</i>									
Native Annual/Biennial Forb		P							
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	P	P		P	2			P	10(1)
INTRODUCED ANNUAL AND BIENNIAL FORBS									
<i>Alyssum alyssoides</i>									
<i>Alyssum desertorum</i>									
<i>Alyssum parviflorum</i>							P	4	P
<i>Bassia sieversiana</i>									P
<i>Cynoglossum officinale</i>			P					P	
<i>Lactuca serriola</i>	2	1	1	1			6(1)	4	1
<i>Lepidium perfoliatum</i>									5(2)
<i>Madia glomerata</i>			P						
<i>Medicago lupulina</i>									
<i>Melilotus officinalis</i>	1				P	16			
<i>Pocilla biloba</i>	1	P	1	P	1			2(1)	1(1)
<i>Polygonum arenastrum</i>									2
<i>Scorzonera laciniata</i>									
<i>Sisymbrium altissimum</i>			1						
<i>Thlaspi arvense</i>		P	P						
<i>Tragopogon dubius ssp. major</i>	P	P	P	P	P		P		
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	4	1	3	1	1	16	6(1)	10(1)	9(3)
INTRODUCED ANNUAL GRASSES									
<i>Bromus arvensis</i>	7	3			1	4		4	11
<i>Poa bulbosa</i>									
TOTAL INTRODUCED ANNUAL GRASSES	7	3			1	4		4	11
NATIVE PERENNIAL FORBS									
<i>Achillea millefolium</i>	2(1)		2(1)			1	(1)		1
<i>Allium textile</i>		P		4	P				
<i>Aster lanceolatus ssp. hesperius</i>									
<i>Astragalus miser var. oblongifolius</i>				1					
<i>Astragalus sp.</i>									
<i>Balsamorhiza sagittata</i>		P		6(1)		P			
<i>Calochortus nuttallii</i>				P					
<i>Cirsium sp.</i>		P		1					
<i>Crepis occidentalis</i>	2								
<i>Eriogonum umbellatum</i>				P					
<i>Galium aparine</i>									
<i>Gayophytum diffusum ssp. parviflorum</i>						P		2	
<i>Helianthella uniflora</i>		P		1					
<i>Heliomeris multiflora</i>			P						
<i>Heterotheca villosa</i>									
<i>Linum lewisii</i>	P				P				
<i>Lotus corniculatus</i>									
<i>Lupinus argenteus</i>									
<i>Machaeranthera canescens</i>					P				
<i>Microseris nutans</i>									
<i>Nothocalais sp.</i>									
<i>Oxybaphus linearis</i>						1			

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE PERENNIAL FORBS (Cont'd)									
<i>Penstemon</i> sp.	1	P							
<i>Perideridia gairdneri</i> ssp. <i>borealis</i>		P	P	P					
<i>Phlox longifolia</i>				P					
<i>Physaria acutifolia</i>									
<i>Senecio integerrimus</i>									
<i>Symphotrichum ascendens</i>		P		7(2)					
<i>Vicia americana</i>			P						
TOTAL NATIVE PERENNIAL FORBS	5(1)	P	2(1)	20(3)	P	2	(1)	2	1
INTRODUCED PERENNIAL FORBS									
<i>Astragalus cicer</i>			P						
<i>Cirsium arvense</i>			(1)						
<i>Convolvulus arvensis</i>									
<i>Medicago sativa</i>	8		P		3	19			2
<i>Rumex crispus</i>	P								
TOTAL INTRODUCED PERENNIAL FORBS	8		(1)		3	19			2
NATIVE PERENNIAL GRASSES (c)									
<i>Achnatherum lettermanii</i>				8					
<i>Agrostis scabra</i>		P		P	1				
<i>Bromelica bulbosa</i>				P					
<i>Bromus carinatus</i> var. <i>marginatus</i>									
<i>Elymus elymoides</i>									P
<i>Elymus lanceolatus</i> sp. <i>lanceolatus</i>		P			26		2		
<i>Elymus trachycaulus</i>									
<i>Koeleria macrantha</i>				6					
<i>Leymus cinereus</i>			5		2	1			1
<i>Nassella viridula</i>									
<i>Pascopyrum smithii</i>	7	14	P	1	17	7	5	16	13(1)
<i>Phalaroides arundinacea</i>		12							
<i>Poa compressa</i>									
<i>Poa secunda</i>	1			P			2		
<i>Pseudoroegneria spicata</i> ssp. <i>inermis</i>					P				
<i>Pseudoroegneria spicata</i> ssp. <i>spicata</i>									
TOTAL NATIVE PERENNIAL GRASSES (c)	8	26	5	15	46	8	7	18	14(1)
INTRODUCED PERENNIAL GRASSES (c)									
<i>Agropyron cristatum</i>					P				
<i>Alopecurus pratensis</i>									
<i>Bromopsis inermis</i>	13					7	40(2)	13	
<i>Dactylis glomerata</i>					P				
<i>Festuca ovina</i>			4(1)	3	P				
<i>Phleum pratense</i>							1		1
<i>Poa pratensis</i> ssp. <i>pratensis</i>	5	P		1	1		12		1
<i>Thinopyrum intermedium</i>	P	31	40	13	2			P	
TOTAL INTRODUCED PERENNIAL GRASSES (c)	18	31	44(1)	17	3	7	53(2)	13	2
NATIVE SUB-SHRUBS									
<i>Gutierrezia sarothrae</i>							P		
TOTAL NATIVE SUB-SHRUBS							P		

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE SHRUBS									
<i>Amelanchier alnifolia</i>				1	P				
<i>Artemisia cana</i>									
<i>Artemisia tridentata</i>	P		P	6	2	P	1	P	
<i>Ericameria nauseosa</i>	P					1	13		1
<i>Purshia tridentata</i>									
<i>Symphoricarpos rotundifolius</i>			P	P					
TOTAL NATIVE SHRUBS	P			7	2	1	14		1
BRYOPHYTES									
Moss									
TOTAL BRYOPHYTES									
Standing Dead	2					3	5	6	2
Litter	35	37	40	33	30	26	15	22	25
Bare Ground (Soil)	5	2	6	7	12	12		23	21
Rock	8					2		2	2
TOTALS	100(1)	100	100(3)	100(3)	100	100	100(4)	100(1)	100(5)
TOTAL VEGETATION COVER	50(1)	61	54(3)	60(3)	58	57	80(4)	47(1)	50(5)
Standard Deviation									
GROUND COVER (Litter+Rock+Veg+St.Dead)	95(1)	98	94(3)	93(3)	88	88	100(4)	77(1)	79(5)
Standard Deviation									
SPECIES DENSITY (# of species/100 sq.m.)	19	19	20	27	23	12	12	12	16
Standard Deviation									

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()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	10	11	12	13	14	15	16	17	18
NATIVE ANNUAL AND BIENNIAL FORBS									
<i>Collinsia parviflora</i>									1
<i>Collomia grandiflora</i>	2				P	1			
<i>Collomia linearis</i>				1					2
<i>Epilobium brachycarpum</i>				P			P	P	3
<i>Grindelia squarrosa</i>		P	1		P		P	P	
<i>Helianthus annuus</i>								P	
<i>Polygonum douglasii</i>									
Native Annual/Biennial Forb									
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	2	P	1	1	P	1	P	P	6
INTRODUCED ANNUAL AND BIENNIAL FORBS									
<i>Alyssum alyssoides</i>						P			
<i>Alyssum desertorum</i>				P					1
<i>Alyssum parviflorum</i>									
<i>Bassia sieversiana</i>									
<i>Cynoglossum officinale</i>		P					P		
<i>Lactuca serriola</i>	1	1(2)	P		1(1)		1(2)		P
<i>Lepidium perfoliatum</i>									P
<i>Madia glomerata</i>									
<i>Medicago lupulina</i>								1	
<i>Melilotus officinalis</i>		2(1)	P	4	12(2)		9	15	1
<i>Pocilla biloba</i>	11(3)		P	1	3	2(1)		4	3
<i>Polygonum arenastrum</i>									
<i>Scorzonera laciniata</i>				1					1
<i>Sisymbrium altissimum</i>	P								
<i>Thlaspi arvense</i>									P
<i>Tragopogon dubius ssp. major</i>	2	1	P				1		P
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	14(3)	4(3)	P	6	16(3)	2(1)	11(2)	20	6
INTRODUCED ANNUAL GRASSES									
<i>Bromus arvensis</i>	5(1)	2	1	1(1)	4(1)	5(2)	P	2	P
<i>Poa bulbosa</i>									5
TOTAL INTRODUCED ANNUAL GRASSES	5(1)	2	1	1(1)	4(1)	5(2)	P	2	5
NATIVE PERENNIAL FORBS									
<i>Achillea millefolium</i>	5(2)		P	1(1)		4	1		1
<i>Allium textile</i>									
<i>Aster lanceolatus ssp. hesperius</i>					P				
<i>Astragalus miser var. oblongifolius</i>									
<i>Astragalus sp.</i>									
<i>Balsamorhiza sagittata</i>	P						P		1
<i>Calochortus nuttallii</i>									
<i>Cirsium sp.</i>									
<i>Crepis occidentalis</i>	1		P						
<i>Eriogonum umbellatum</i>									
<i>Galium aparine</i>									
<i>Gayophytum diffusum ssp. parviflorum</i>	2				1				
<i>Helianthella uniflora</i>									
<i>Heliomeris multiflora</i>	P								
<i>Heterotheca villosa</i>									
<i>Linum lewisii</i>					P				P
<i>Lotus corniculatus</i>									
<i>Lupinus argenteus</i>									
<i>Machaeranthera canescens</i>									
<i>Microseris nutans</i>									P
<i>Nothocalais sp.</i>									
<i>Oxybaphus linearis</i>					1(1)	1			

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()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	10	11	12	13	14	15	16	17	18
NATIVE PERENNIAL FORBS (Cont'd)									
<i>Penstemon</i> sp.	1								1
<i>Perideridia gairdneri</i> ssp. <i>borealis</i>									
<i>Phlox longifolia</i>									
<i>Physaria acutifolia</i>									
<i>Senecio integerrimus</i>									
<i>Symphotrichum ascendens</i>									
<i>Vicia americana</i>							P		
TOTAL NATIVE PERENNIAL FORBS	9(2)		P	1(1)	2(1)	5	1		3
INTRODUCED PERENNIAL FORBS									
<i>Astragalus cicer</i>					P				P
<i>Cirsium arvense</i>									
<i>Convolvulus arvensis</i>									1
<i>Medicago sativa</i>	1	7	3	30	4(1)	36(2)	7	2	1
<i>Rumex crispus</i>	1		P						
TOTAL INTRODUCED PERENNIAL FORBS	2	7	3	30	4(1)	36(2)	7	2	2
NATIVE PERENNIAL GRASSES (c)									
<i>Achnatherum lettermanii</i>									
<i>Agrostis scabra</i>									
<i>Bromelica bulbosa</i>									
<i>Bromus carinatus</i> var. <i>marginatus</i>									
<i>Elymus elymoides</i>									
<i>Elymus lanceolatus</i> sp. <i>lanceolatus</i>	1						6		
<i>Elymus trachycaulus</i>									
<i>Koeleria macrantha</i>									
<i>Leymus cinereus</i>	1						1	P	1
<i>Nassella viridula</i>									
<i>Pascopyrum smithii</i>	22	12	9	9(2)	16(2)	7(1)	9(1)	8	20(2)
<i>Phalaroides arundinacea</i>									
<i>Poa compressa</i>									P
<i>Poa secunda</i>									P
<i>Pseudoroegneria spicata</i> ssp. <i>inermis</i>				2(2)			P	4(1)	3
<i>Pseudoroegneria spicata</i> ssp. <i>spicata</i>					2				
TOTAL NATIVE PERENNIAL GRASSES (c)	24	12	9	11(4)	18(2)	7(1)	16(1)	12(1)	24(2)
INTRODUCED PERENNIAL GRASSES (c)									
<i>Agropyron cristatum</i>							P		
<i>Alopecurus pratensis</i>									
<i>Bromopsis inermis</i>	4	38(3)	20(2)		1(1)	P	P		1
<i>Dactylis glomerata</i>									1
<i>Festuca ovina</i>						2			
<i>Phleum pratense</i>	P	P			P				
<i>Poa pratensis</i> ssp. <i>pratensis</i>	2		(1)		3	(1)			
<i>Thinopyrum intermedium</i>	1	1		3(1)	1(1)	P	19(3)	14(1)	14
TOTAL INTRODUCED PERENNIAL GRASSES (c)	7	39(3)	20(3)	3(1)	5(2)	2(1)	19(3)	14(1)	16
NATIVE SUB-SHRUBS									
<i>Gutierrezia sarothrae</i>			P						
TOTAL NATIVE SUB-SHRUBS			P						

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	10	11	12	13	14	15	16	17	18
NATIVE SHRUBS									
<i>Amelanchier alnifolia</i>									
<i>Artemisia cana</i>									
<i>Artemisia tridentata</i>	P		1	(2)	3	4	2		P
<i>Ericameria nauseosa</i>	2	2	20						
<i>Purshia tridentata</i>			P						
<i>Symphoricarpos rotundifolius</i>							P		
TOTAL NATIVE SHRUBS	2	2	21	(2)	3	4	2		P
BRYOPHYTES									
Moss	1								
TOTAL BRYOPHYTES	1								
Standing Dead		2	6		2	3	1		1
Litter	17	28	27	23	18	26	26	30	17
Bare Ground (Soil)	12	4	2	23	17	8	11	15	20
Rock	5		10	1	11	1	6	5	
TOTALS	100(6)	100(6)	100(3)	100(9)	100(10)	100(7)	100(6)	100(2)	100(2)
TOTAL VEGETATION COVER	66(6)	66(6)	55(3)	53(9)	52(10)	62(7)	56(6)	50(2)	62(2)
Standard Deviation									
GROUND COVER (Litter+Rock+Veg+St.Dead)	88(6)	96(6)	98(3)	77(9)	83(10)	92(7)	89(6)	85(2)	80(2)
Standard Deviation									
SPECIES DENSITY (# of species/100 sq.m.)	24	12	17	13	19	13	20	12	30
Standard Deviation									

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PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	19	20	21	22	23	24	25	26	27
NATIVE ANNUAL AND BIENNIAL FORBS									
<i>Collinsia parviflora</i>									
<i>Collomia grandiflora</i>									
<i>Collomia linearis</i>		P	P	P	P			P	P
<i>Epilobium brachycarpum</i>	P			2					
<i>Grindelia squarrosa</i>	P	1			P				2
<i>Helianthus annuus</i>									
<i>Polygonum douglasii</i>	P		P						
Native Annual/Biennial Forb									
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	P	1	P	2	P			P	2
INTRODUCED ANNUAL AND BIENNIAL FORBS									
<i>Alyssum alyssoides</i>									1
<i>Alyssum desertorum</i>					P				
<i>Alyssum parviflorum</i>									P
<i>Bassia sieversiana</i>									
<i>Cynoglossum officinale</i>	1		P	P					P
<i>Lactuca serriola</i>	P	1	P	P			1	1	5
<i>Lepidium perfoliatum</i>									
<i>Madia glomerata</i>									
<i>Medicago lupulina</i>									
<i>Melilotus officinalis</i>	6	3		1	P	19	13		
<i>Pocilla biloba</i>	3	1		P	P	1			1
<i>Polygonum arenastrum</i>									
<i>Scorzonera laciniata</i>		1			P				
<i>Sisymbrium altissimum</i>								1	
<i>Thlaspi arvense</i>								P	
<i>Tragopogon dubius ssp. major</i>	P	P	(1)	P	1		1	P	P
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	10	6	(1)	1	1	20	15	2	7
INTRODUCED ANNUAL GRASSES									
<i>Bromus arvensis</i>							2	1	
<i>Poa bulbosa</i>	1(1)			4	P				
TOTAL INTRODUCED ANNUAL GRASSES	1(1)			4	P		2	1	
NATIVE PERENNIAL FORBS									
<i>Achillea millefolium</i>	2	1		2(1)	4(1)	3	1(2)	P	1
<i>Allium textile</i>									
<i>Aster lanceolatus ssp. hesperius</i>									
<i>Astragalus miser var. oblongifolius</i>				P					
<i>Astragalus sp.</i>									
<i>Balsamorhiza sagittata</i>	1			P	P				
<i>Calochortus nuttallii</i>									
<i>Cirsium sp.</i>									
<i>Crepis occidentalis</i>									
<i>Eriogonum umbellatum</i>									
<i>Galium aparine</i>			1						
<i>Gayophytum diffusum ssp. parviflorum</i>									
<i>Helianthella uniflora</i>									
<i>Heliomeris multiflora</i>									
<i>Heterotheca villosa</i>				P					
<i>Linum lewisii</i>		1			2		4		
<i>Lotus corniculatus</i>		P			P	1			
<i>Lupinus argenteus</i>	P	2							
<i>Machaeranthera canescens</i>									
<i>Microseris nutans</i>					1				
<i>Nothocalais sp.</i>									
<i>Oxybaphus linearis</i>				P					

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	19	20	21	22	23	24	25	26	27
NATIVE PERENNIAL FORBS (Cont'd)									
<i>Penstemon</i> sp.				P	P		2		P
<i>Perideridia gairdneri</i> ssp. <i>borealis</i>			1						P
<i>Phlox longifolia</i>									
<i>Physaria acutifolia</i>									
<i>Senecio integerrimus</i>			P						
<i>Symphyotrichum ascendens</i>									
<i>Vicia americana</i>			P	1	P			P	
TOTAL NATIVE PERENNIAL FORBS	3	4	2	3(1)	7(1)	4	7(2)	P	1
INTRODUCED PERENNIAL FORBS									
<i>Astragalus cicer</i>	1	5(2)			P	2(1)		P	
<i>Cirsium arvense</i>									P
<i>Convolvulus arvensis</i>									
<i>Medicago sativa</i>	9	4	18(3)		9	8	10	1	1
<i>Rumex crispus</i>									
TOTAL INTRODUCED PERENNIAL FORBS	10	9(2)	18(3)		9	10(1)	10	1	1
NATIVE PERENNIAL GRASSES (c)									
<i>Achnatherum lettermanii</i>									
<i>Agrostis scabra</i>									P
<i>Bromelica bulbosa</i>									
<i>Bromus carinatus</i> var. <i>marginatus</i>									P
<i>Elymus elymoides</i>									
<i>Elymus lanceolatus</i> sp. <i>lanceolatus</i>	1(1)						1		20
<i>Elymus trachycaulus</i>									1
<i>Koeleria macrantha</i>									
<i>Leymus cinereus</i>		9		8		1	P	8	1
<i>Nassella viridula</i>	2								P
<i>Pascopyrum smithii</i>	P	4	2	7(2)	3	1	7(1)	20	25
<i>Phalaroides arundinacea</i>									P
<i>Poa compressa</i>				1	1				
<i>Poa secunda</i>			1						
<i>Pseudoroegneria spicata</i> ssp. <i>inermis</i>									
<i>Pseudoroegneria spicata</i> ssp. <i>spicata</i>				1		1			
TOTAL NATIVE PERENNIAL GRASSES (c)	3(1)	13	3	17(2)	4	3	8(1)	28	47
INTRODUCED PERENNIAL GRASSES (c)									
<i>Agropyron cristatum</i>			P					P	P
<i>Alopecurus pratensis</i>									P
<i>Bromopsis inermis</i>	P	2	2	2(1)	1(2)		1		
<i>Dactylis glomerata</i>									1
<i>Festuca ovina</i>		1(1)	10(2)	1	19(4)	2(1)			
<i>Phleum pratense</i>									
<i>Poa pratensis</i> ssp. <i>pratensis</i>									4
<i>Thinopyrum intermedium</i>	24(2)	27(7)	43(7)	19	7(2)	7		34	
TOTAL INTRODUCED PERENNIAL GRASSES (c)	24(2)	30(8)	55(9)	22(1)	27(8)	9(1)	1	34	5
NATIVE SUB-SHRUBS									
<i>Gutierrezia sarothrae</i>								P	
TOTAL NATIVE SUB-SHRUBS								P	

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()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	19	20	21	22	23	24	25	26	27
NATIVE SHRUBS									
<i>Amelanchier alnifolia</i>									
<i>Artemisia cana</i>					P	9(1)			
<i>Artemisia tridentata</i>	2	3				3	3(1)		
<i>Ericameria nauseosa</i>							4(1)		
<i>Purshia tridentata</i>	2	P		P					
<i>Symphoricarpos rotundifolius</i>		P					P		
TOTAL NATIVE SHRUBS	4	3		P	P	12(1)	7(2)		
BRYOPHYTES									
Moss				P					
TOTAL BRYOPHYTES				P					
Standing Dead							4		
Litter	26	22	16	27	30	30	27	34	29
Bare Ground (Soil)	9	8	6	24	21	11	10		8
Rock	10	4			1	1	9		
TOTALS	100(4)	100(10)	100(13)	100(4)	100(9)	100(3)	100(5)	100	100
TOTAL VEGETATION COVER	55(4)	66(10)	78(13)	49(4)	48(9)	58(3)	50(5)	66	63
Standard Deviation									
GROUND COVER (Litter+Rock+Veg+St.Dead)	91(4)	92(10)	94(13)	76(4)	79(9)	89(3)	90(5)	100	92
Standard Deviation									
SPECIES DENSITY (# of species/100 sq.m.)	21	21	16	24	23	13	16	14	25
Standard Deviation									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---				
	28	29	30	31	32
NATIVE ANNUAL AND BIENNIAL FORBS					
<i>Collinsia parviflora</i>					
<i>Collomia grandiflora</i>					
<i>Collomia linearis</i>			P		P
<i>Epilobium brachycarpum</i>			3		1
<i>Grindelia squarrosa</i>		1	2		
<i>Helianthus annuus</i>					
<i>Polygonum douglasii</i>					
Native Annual/Biennial Forb					
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS		1	5		1
INTRODUCED ANNUAL AND BIENNIAL FORBS					
<i>Alyssum alyssoides</i>			P		
<i>Alyssum desertorum</i>					P
<i>Alyssum parviflorum</i>	1		P	9(2)	
<i>Bassia sieversiana</i>					
<i>Cynoglossum officinale</i>		1	P		P
<i>Lactuca serriola</i>		2	3		P
<i>Lepidium perfoliatum</i>					P
<i>Madia glomerata</i>					
<i>Medicago lupulina</i>					
<i>Melilotus officinalis</i>	1	11(3)			1
<i>Pocilla biloba</i>		1	9		2(1)
<i>Polygonum arenastrum</i>					
<i>Scorzonera laciniata</i>					
<i>Sisymbrium altissimum</i>					
<i>Thlaspi arvense</i>					
<i>Tragopogon dubius ssp. major</i>	1	P	P		2
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	3	15(3)	12	9(2)	5(1)
INTRODUCED ANNUAL GRASSES					
<i>Bromus arvensis</i>				1	1
<i>Poa bulbosa</i>					(1)
TOTAL INTRODUCED ANNUAL GRASSES				1	1(1)
NATIVE PERENNIAL FORBS					
<i>Achillea millefolium</i>		P	P	P	1
<i>Allium textile</i>		P			
<i>Aster lanceolatus ssp. hesperius</i>					
<i>Astragalus miser var. oblongifolius</i>					P
<i>Astragalus sp.</i>					P
<i>Balsamorhiza sagittata</i>		P			P
<i>Calochortus nuttallii</i>					
<i>Cirsium sp.</i>					
<i>Crepis occidentalis</i>					
<i>Eriogonum umbellatum</i>					
<i>Galium aparine</i>					
<i>Gayophytum diffusum ssp. parviflorum</i>					
<i>Helianthella uniflora</i>					
<i>Heliomeris multiflora</i>					
<i>Heterotheca villosa</i>					P
<i>Linum lewisii</i>	P				3
<i>Lotus corniculatus</i>					
<i>Lupinus argenteus</i>					
<i>Machaeranthera canescens</i>					
<i>Microseris nutans</i>					P
<i>Nothocalais sp.</i>					
<i>Oxybaphus linearis</i>					

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---				
	28	29	30	31	32
NATIVE PERENNIAL FORBS (Cont'd)					
<i>Penstemon</i> sp.		P	P		P
<i>Perideridia gairdneri</i> ssp. <i>borealis</i>	1		P		
<i>Phlox longifolia</i>					
<i>Physaria acutifolia</i>					P
<i>Senecio integerrimus</i>					
<i>Symphotrichum ascendens</i>					
<i>Vicia americana</i>					
TOTAL NATIVE PERENNIAL FORBS	1	P	P	P	4
INTRODUCED PERENNIAL FORBS					
<i>Astragalus cicer</i>	P	P			1
<i>Cirsium arvense</i>					
<i>Convolvulus arvensis</i>					
<i>Medicago sativa</i>	13	1	P	P	20(2)
<i>Rumex crispus</i>					
TOTAL INTRODUCED PERENNIAL FORBS	13	1	P	P	21(2)
NATIVE PERENNIAL GRASSES (c)					
<i>Achnatherum lettermanii</i>					
<i>Agrostis scabra</i>			P		
<i>Bromelica bulbosa</i>					
<i>Bromus carinatus</i> var. <i>marginatus</i>					
<i>Elymus elymoides</i>					
<i>Elymus lanceolatus</i> sp. <i>lanceolatus</i>			8(1)		1
<i>Elymus trachycaulus</i>			2		
<i>Koeleria macrantha</i>					
<i>Leymus cinereus</i>		2	P	4	P
<i>Nassella viridula</i>					
<i>Pascopyrum smithii</i>		8(2)	17	18(1)	9(1)
<i>Phalaroides arundinacea</i>					
<i>Poa compressa</i>					
<i>Poa secunda</i>	1				
<i>Pseudoroegneria spicata</i> ssp. <i>inermis</i>					
<i>Pseudoroegneria spicata</i> ssp. <i>spicata</i>				8	1
TOTAL NATIVE PERENNIAL GRASSES (c)	1	10(2)	27(1)	30(1)	11(1)
INTRODUCED PERENNIAL GRASSES (c)					
<i>Agropyron cristatum</i>			P	1	
<i>Alopecurus pratensis</i>			1		
<i>Bromopsis inermis</i>		1		5	
<i>Dactylis glomerata</i>					
<i>Festuca ovina</i>				10(1)	11(9)
<i>Phleum pratense</i>					
<i>Poa pratensis</i> ssp. <i>pratensis</i>	1		P		
<i>Thinopyrum intermedium</i>	38(4)	32		10	7(3)
TOTAL INTRODUCED PERENNIAL GRASSES (c)	39(4)	33	1	26(1)	18(12)
NATIVE SUB-SHRUBS					
<i>Gutierrezia sarothrae</i>					
TOTAL NATIVE SUB-SHRUBS					

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover				
	---Sample Number---				
	28	29	30	31	32
NATIVE SHRUBS					
<i>Amelanchier alnifolia</i>					
<i>Artemisia cana</i>					
<i>Artemisia tridentata</i>		1		1	
<i>Ericameria nauseosa</i>					
<i>Purshia tridentata</i>		6			
<i>Symphoricarpos rotundifolius</i>		P			
TOTAL NATIVE SHRUBS		7		1	
BRYOPHYTES					
Moss					
TOTAL BRYOPHYTES					
Standing Dead	2	2			
Litter	33	21	29	23	16
Bare Ground (Soil)	5	9	26	9	20
Rock	3	1		1	3
TOTALS	100(4)	100(5)	100(1)	100(4)	100(17)
TOTAL VEGETATION COVER	57(4)	67(5)	45(1)	67(4)	61(17)
<i>Standard Deviation</i>					
GROUND COVER (Litter+Rock+Veg+St.Dead)	95(4)	91(5)	74(1)	91(4)	80(17)
<i>Standard Deviation</i>					
SPECIES DENSITY (# of species/100 sq.m.)	10	19	21	12	28
<i>Standard Deviation</i>					

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

**Table B-2. Cover Data - Aspen ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2023**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE ANNUAL AND BIENNIAL FORBS					
<i>Chenopodium berlandieri</i>	0.00	0.00	0.00	0.00	5.56
<i>Chenopodium sp.</i>	0.00	0.00	0.00	0.00	5.56
<i>Collomia linearis</i>	0.00	0.00	0.00	0.00	16.67
<i>Descurainia incana</i>	0.00	0.00	0.00	0.00	5.56
<i>Epilobium brachycarpum</i>	0.00	0.00	0.00	0.00	11.11
<i>Galium bifolium</i>	0.56	0.63	0.94	0.63	66.67
<i>Helianthus annuus</i>	0.11	0.13	0.17	0.11	11.11
<i>Polygonum douglasii</i>	0.06	0.06	0.11	0.07	33.33
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	0.7	0.8	1.2	0.8	66.7
INTRODUCED ANNUAL AND BIENNIAL FORBS					
<i>Capsella bursa-pastoris</i>	0.00	0.00	0.00	0.00	5.56
<i>Chenopodium album</i>	0.06	0.06	0.06	0.04	5.56
<i>Cirsium vulgare</i>	0.00	0.00	0.06	0.04	16.67
<i>Cynoglossum officinale</i>	0.22	0.25	0.39	0.26	38.89
<i>Descurainia sp.</i>	0.00	0.00	0.00	0.00	11.11
<i>Lactuca serriola</i>	0.00	0.00	0.00	0.00	11.11
<i>Melilotus officinalis</i>	0.00	0.00	0.00	0.00	5.56
<i>Pocilla biloba</i>	0.00	0.00	0.00	0.00	5.56
<i>Sisymbrium sp.</i>	0.00	0.00	0.00	0.00	16.67
<i>Tragopogon dubius ssp. major</i>	0.00	0.00	0.00	0.00	16.67
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	0.3	0.3	0.5	0.3	66.7
NATIVE PERENNIAL FORBS					
<i>Achillea millefolium</i>	0.44	0.50	1.06	0.70	66.67
<i>Actaea rubra ssp. arguta</i>	0.72	0.82	2.78	1.84	55.56
<i>Agastache urticifolia</i>	1.17	1.32	2.56	1.69	88.89
<i>Aquilegia sp.</i>	0.00	0.00	0.00	0.00	5.56
<i>Aster foliaceus</i>	4.06	4.59	9.78	6.48	94.44
<i>Campanula rotundifolia</i>	0.00	0.00	0.00	0.00	27.78
<i>Castilleja sulphurea</i>	0.00	0.00	0.00	0.00	11.11
<i>Cirsium sp.</i>	0.11	0.13	0.22	0.15	11.11
<i>Delphinium barbeyi</i>	0.11	0.13	0.17	0.11	33.33
<i>Erigeron sp.</i>	0.39	0.44	0.50	0.33	27.78
<i>Erigeron speciosus</i>	0.11	0.13	0.11	0.07	33.33
<i>Galium aparine</i>	0.00	0.00	0.06	0.04	11.11
<i>Galium septentrionale</i>	0.28	0.31	0.72	0.48	27.78
<i>Geranium richardsonii</i>	0.28	0.31	0.89	0.59	33.33
<i>Helianthella uniflora</i>	0.17	0.19	0.22	0.15	16.67
<i>Heliomeris multiflora</i>	0.17	0.19	0.17	0.11	44.44
<i>Heracleum sphondylium ssp. montanum</i>	0.28	0.31	0.72	0.48	27.78
<i>Hydrophyllum fendleri</i>	0.00	0.00	0.00	0.00	5.56
<i>Lathyrus leucanthus</i>	0.50	0.57	2.61	1.73	72.22
<i>Ligusticum porteri</i>	1.00	1.13	2.83	1.88	61.11
<i>Lupinus caudatus</i>	0.11	0.13	0.44	0.29	38.89
<i>Maianthemum racemosum</i>	0.17	0.19	0.22	0.15	33.33
<i>Maianthemum stellatum</i>	0.00	0.00	0.11	0.07	11.11
<i>Mentha arvensis</i>	0.00	0.00	0.06	0.04	5.56
<i>Mertensia ciliata</i>	0.28	0.31	1.00	0.66	44.44
<i>Osmorhiza chilensis</i>	2.22	2.52	5.50	3.65	77.78
<i>Osmorhiza occidentalis</i>	0.56	0.63	2.06	1.36	50.00
<i>Pedicularis procera</i>	0.11	0.13	0.11	0.07	44.44
<i>Perideridia gairdneri ssp. borealis</i>	0.28	0.31	0.50	0.33	50.00
<i>Prosartes trachycarpa</i>	0.22	0.25	0.72	0.48	61.11
<i>Pseudostellaria jamesiana</i>	0.33	0.38	0.61	0.41	44.44
<i>Ranunculus sp.</i>	0.00	0.00	0.00	0.00	11.11
<i>Rudbeckia ampla</i>	0.50	0.57	1.39	0.92	38.89

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

**Table B-2. Cover Data - Aspen ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2023**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE PERENNIAL FORBS (Cont'd)					
<i>Symphotrichum ascendens</i>	0.00	0.00	0.06	0.04	5.56
<i>Thalictrum fendleri</i>	0.56	0.63	2.28	1.51	83.33
<i>Urtica gracilis</i> ssp. <i>gracilis</i>	0.06	0.06	0.33	0.22	38.89
<i>Valeriana edulis</i>	0.67	0.75	1.94	1.29	83.33
<i>Veratrum tenuipetalum</i>	0.00	0.00	0.00	0.00	11.11
<i>Vicia americana</i>	0.61	0.69	1.06	0.70	61.11
<i>Viola scopulorum</i>	0.67	0.75	1.78	1.18	27.78
<i>Viola</i> sp.	0.39	0.44	2.50	1.66	55.56
<i>Viola vallicola</i>	0.11	0.13	0.17	0.11	11.11
Native perennial forb	0.00	0.00	0.06	0.04	5.56
Unknown Apiaceae	0.06	0.06	0.11	0.07	5.56
TOTAL NATIVE PERENNIAL FORBS	17.7	20.0	48.4	32.1	100.0
INTRODUCED PERENNIAL FORBS					
<i>Cirsium arvense</i>	0.06	0.06	0.06	0.04	5.56
<i>Taraxacum officinale</i>	0.00	0.00	0.00	0.00	5.56
TOTAL INTRODUCED PERENNIAL FORBS	0.1	0.1	0.1	0.0	11.1
NATIVE PERENNIAL GRASSES (c)					
<i>Achnatherum nelsonii</i>	0.11	0.13	0.11	0.07	16.67
<i>Bromelica bulbosa</i>	0.00	0.00	0.00	0.00	11.11
<i>Bromopsis porteri</i>	0.00	0.00	0.00	0.00	11.11
<i>Bromus carinatus</i> var. <i>marginatus</i>	0.67	0.75	1.11	0.74	72.22
<i>Bromus ciliatus</i> var. <i>ciliatus</i>	0.00	0.00	0.00	0.00	5.56
<i>Carex geyeri</i>	1.22	1.38	5.72	3.79	88.89
<i>Elymus glaucus</i>	1.78	2.01	4.67	3.09	100.00
<i>Poa compressa</i>	0.00	0.00	0.00	0.00	5.56
<i>Poa pratensis</i> ssp. <i>agassizensis</i>	1.89	2.14	2.94	1.95	72.22
TOTAL NATIVE PERENNIAL GRASSES (c)	5.7	6.4	14.6	9.7	100.0
INTRODUCED PERENNIAL GRASSES ©					
<i>Agrostis gigantea</i>	0.06	0.06	0.06	0.04	5.56
<i>Bromopsis inermis</i>	2.39	2.70	2.89	1.92	16.67
<i>Dactylis glomerata</i>	0.39	0.44	0.78	0.52	44.44
<i>Phleum pratense</i>	0.17	0.19	0.50	0.33	38.89
<i>Thinopyrum intermedium</i>	0.39	0.44	0.44	0.29	5.56
TOTAL INTRODUCED PERENNIAL GRASSES (c)	3.4	3.8	4.7	3.1	66.7
NATIVE FERN					
<i>Pteridium aquilinum</i> ssp. <i>lanuginosum</i>	0.44	0.50	1.28	0.85	16.67
TOTAL NATIVE FERN	0.4	0.5	1.3	0.8	16.7
NATIVE SHRUBS					
<i>Acer glabrum</i>	6.78	7.67	9.06	6.00	72.22
<i>Amelanchier alnifolia</i>	14.22	16.10	17.50	11.60	94.44
<i>Mahonia repens</i>	0.00	0.00	0.17	0.11	16.67
<i>Padus virginiana</i> ssp. <i>melanocarpa</i>	3.56	4.03	5.39	3.57	88.89
<i>Paxistima myrsinites</i>	0.00	0.00	0.00	0.00	22.22
<i>Quercus gambelii</i>	3.89	4.40	4.22	2.80	55.56
<i>Ribes inerme</i>	0.11	0.13	0.33	0.22	33.33
<i>Rosa woodsii</i>	0.61	0.69	2.28	1.51	77.78
<i>Rubacer parviflorum</i>	3.28	3.71	6.28	4.16	38.89
<i>Shepherdia canadensis</i>	0.00	0.00	0.00	0.00	5.56
<i>Symphoricarpos rotundifolius</i>	8.67	9.81	15.00	9.94	100.00
Native Shrub	0.17	0.19	0.28	0.18	11.11
TOTAL NATIVE SHRUBS	41.3	46.7	60.5	40.1	100.0

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
TOTAL NATIVE TREES					
<i>Abies concolor</i>	0.22	0.25	0.39	0.26	5.56
<i>Populus tremuloides</i>	18.56	21.01	19.17	12.71	88.89
<i>Sorbus scopulina</i>	0.00	0.00	0.00	0.00	5.56
Native Tree	0.00	0.00	0.06	0.04	5.56
TOTAL NATIVE TREES	18.8	21.3	19.6	13.0	88.9
BRYOPHYTES					
Moss	0.06	0.06	0.06	0.04	16.67
TOTAL BRYOPHYTES	0.1	0.1	0.1	0.0	16.7
Standing Dead	0.61		0.61		
Litter	7.39		7.39		
Bare Ground (Soil)	3.61		3.61		
Rock	0.06		0.06		
TOTALS	100		163		
TOTAL VEGETATION COVER	88.3		150.8		
Standard Deviation	5.224		24.271		
GROUND COVER (Litter+Rock+Veg+St.Dead)	96.4		158.9		
Standard Deviation	3.256		22.339		
SPECIES DENSITY (# of species/100 sq.m.)	32.1				
Standard Deviation	5.775				

^a First Hit Cover = Absolute percent cover in vertical view with no account of plants obscured by first (i.e. top) hit.

^b First Hit Relative Cover = Percent of the First Hit vegetation cover comprised of this species or lifeform

^c All Hit Cover = Absolute percent cover in vertical view accounting for all cover by the species or lifeform, whether over-arched by other plants or not

^d All Hit Relative Cover = Percent of the All Hit vegetation cover comprised of the species or lifeform

^e Frequency = Percent of the samples in which a species or lifeform occurred

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE ANNUAL AND BIENNIAL FORBS									
<i>Chenopodium berlandieri</i>									
<i>Chenopodium sp.</i>									
<i>Collomia linearis</i>		P							
<i>Descurainia incana</i>									
<i>Epilobium brachycarpum</i>									
<i>Galium bifolium</i>	P	1(4)	P	P	2(1)		3		
<i>Helianthus annuus</i>					1				
<i>Polygonum douglasii</i>		P							
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	P	1(4)	P	P	3(1)		3		
INTRODUCED ANNUAL AND BIENNIAL FORBS									
<i>Capsella bursa-pastoris</i>		P							
<i>Chenopodium album</i>					1				
<i>Cirsium vulgare</i>		P		(1)					
<i>Cynoglossum officinale</i>					1	(2)		1	
<i>Descurainia sp.</i>	P								
<i>Lactuca serriola</i>									
<i>Melilotus officinalis</i>									
<i>Pocilla biloba</i>									
<i>Sisymbrium sp.</i>	P								
<i>Tragopogon dubius ssp. major</i>		P							
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	P	P		(1)	2	(2)		1	
NATIVE PERENNIAL FORBS									
<i>Achillea millefolium</i>	P	1	P		(1)	P	1(1)	1(2)	
<i>Actaea rubra ssp. arguta</i>	3(3)			(1)		1(8)		(1)	(3)
<i>Agastache urticifolia</i>		P	1	1(1)	3	1	2	(1)	(1)
<i>Aquilegia sp.</i>		P							
<i>Aster foliaceus</i>	4(11)	10(2)	2(9)	11(13)	3(2)	8(9)	6(16)	1(2)	6(12)
<i>Campanula rotundifolia</i>		P		P				P	
<i>Castilleja sulphurea</i>		P							P
<i>Cirsium sp.</i>								2(1)	
<i>Delphinium barbeyi</i>			(1)						P
<i>Erigeron sp.</i>		4		(1)	2		P		
<i>Erigeron speciosus</i>						P		P	
<i>Galium aparine</i>									
<i>Galium septentrionale</i>								3(2)	(2)
<i>Geranium richardsonii</i>		P	(4)		2			(1)	
<i>Helianthella uniflora</i>				1	2(1)				
<i>Heliomeris multiflora</i>		P		P			P	P	
<i>Heracleum sphondylium ssp. montanum</i>	P		1(2)			4(4)			
<i>Hydrophyllum fendleri</i>			P						
<i>Lathyrus leucanthus</i>	1(3)			(1)	P	1(3)	(8)		(5)
<i>Ligusticum porteri</i>	(2)	P	1(7)			4(7)	4(1)		4(6)
<i>Lupinus caudatus</i>		1(2)			P		1	(2)	(1)
<i>Maianthemum racemosum</i>	1(1)	P				P	1		
<i>Maianthemum stellatum</i>									
<i>Mentha arvensis</i>								(1)	
<i>Mertensia ciliata</i>			(2)	P		(3)			
<i>Osmorhiza chilensis</i>	4(9)	3	2(8)	4(12)	(4)	2(3)	6(3)	(1)	
<i>Osmorhiza occidentalis</i>	1(3)		(1)			1(2)		1(6)	3(3)
<i>Pedicularis procera</i>	P	1	P			P			
<i>Perideridia gairdneri ssp. borealis</i>		P	1		P	P		P	
<i>Prosartes trachycarpa</i>	1		P	P		1(2)		(1)	(1)
<i>Pseudostellaria jamesiana</i>	(2)		P		3	P	P		
<i>Ranunculus sp.</i>		P							
<i>Rudbeckia ampla</i>	P		(3)			(2)			1(1)

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE PERENNIAL FORBS (Cont'd)									
<i>Symphyotrichum ascendens</i>						(1)			
<i>Thalictrum fendleri</i>	(3)	1	P	P	P	1	(2)	(1)	
<i>Urtica gracilis</i> ssp. <i>gracilis</i>			P	(1)	(1)	(1)	P		
<i>Valeriana edulis</i>	1(2)	(2)	(6)	1	P	(1)	P		
<i>Veratrum tenuipetalum</i>									
<i>Vicia americana</i>	(2)	6(1)	P	P	2	P	(1)		
<i>Viola scopulorum</i>	1(3)		2(7)			3(3)			
<i>Viola</i> sp.				P	1(3)		1(1)	1	2(2)
<i>Viola vallicola</i>				1			1(1)		
Native perennial forb									
Unknown Apiaceae									
TOTAL NATIVE PERENNIAL FORBS	17(44)	27(7)	10(50)	19(30)	18(12)	27(49)	23(34)	9(22)	16(37)
INTRODUCED PERENNIAL FORBS									
<i>Cirsium arvense</i>									
<i>Taraxacum officinale</i>		P							
TOTAL INTRODUCED PERENNIAL FORBS		P							
NATIVE PERENNIAL GRASSES (c)									
<i>Achnatherum nelsonii</i>		1			1				
<i>Bromelica bulbosa</i>		P							
<i>Bromopsis porteri</i>		P	P						
<i>Bromus carinatus</i> var. <i>marginatus</i>		P		1	2			P	
<i>Bromus ciliatus</i> var. <i>ciliatus</i>									
<i>Carex geyeri</i>	(9)	7(13)	(2)	1(5)	P	(7)	1(9)	9(14)	P
<i>Elymus glaucus</i>	1(3)	1(3)	1	4(3)	1(3)	2	1(4)	1(1)	(2)
<i>Poa compressa</i>									
<i>Poa pratensis</i> ssp. <i>agassizensis</i>	1(3)	7(3)	P	(2)	15(2)	P	P		
TOTAL NATIVE PERENNIAL GRASSES (c)	2(15)	16(19)	1(2)	6(10)	19(5)	2(7)	2(13)	10(15)	(2)
INTRODUCED PERENNIAL GRASSES ©									
<i>Agrostis gigantea</i>									
<i>Bromopsis inermis</i>					P				
<i>Dactylis glomerata</i>		P		P	P		1	1	
<i>Phleum pratense</i>		P						1	(1)
<i>Thinopyrum intermedium</i>									
TOTAL INTRODUCED PERENNIAL GRASSES (c)		P		P	P		1	2	(1)
NATIVE FERN									
<i>Pteridium aquilinum</i> ssp. <i>lanuginosum</i>			8(14)					(1)	P
TOTAL NATIVE FERN			8(14)					(1)	P
NATIVE SHRUBS									
<i>Acer glabrum</i>	9(8)		3(3)	1(1)	1(1)	11(2)	2(2)	20(4)	31(5)
<i>Amelanchier alnifolia</i>	33(7)	20(3)	9(4)	22(5)	8	22	27(5)	21(1)	25(9)
<i>Mahonia repens</i>	(1)		(1)						
<i>Padus virginiana</i> ssp. <i>melanocarpa</i>	(1)	P	3(1)	10(2)	2	10	1(1)	6	4(3)
<i>Paxistima myrsinites</i>		P	P			P			
<i>Quercus gambelii</i>	5	5		19	P	2(1)	20(1)	(1)	(1)
<i>Ribes inerme</i>		P	(1)		1			(2)	
<i>Rosa woodsii</i>	4(9)	(1)	2(3)		P	1(2)	2	1(2)	(4)
<i>Rubacer parviflorum</i>			16(20)			11(3)			9(12)
<i>Shepherdia canadensis</i>						P			
<i>Symphoricarpos rotundifolius</i>	5(4)	11(5)	2(4)	7(5)	19(6)	5(6)	7(5)	2(6)	2(7)
Native Shrub									(2)
TOTAL NATIVE SHRUBS	56(30)	36(9)	35(37)	59(13)	31(7)	62(14)	59(14)	50(16)	71(43)

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	01	02	03	04	05	06	07	08	09
TOTAL NATIVE TREES									
<i>Abies concolor</i>								4(3)	
<i>Populus tremuloides</i>	15(1)	11	39	12(4)	12			9	6
<i>Sorbus scopulina</i>									
Native Tree			(1)						
TOTAL NATIVE TREES	15(1)	11	39(1)	12(4)	12			13(3)	6
BRYOPHYTES									
Moss			P						
TOTAL BRYOPHYTES			P						
Standing Dead						1	1	2	
Litter	3	5	7	3	14	7	4	4	7
Bare Ground (Soil)	7	4		1	1	1	6	9	
Rock							1		
TOTALS	100(90)	100(39)	100(104)	100(58)	100(25)	100(72)	100(61)	100(57)	100(83)
TOTAL VEGETATION COVER	90(90)	91(39)	93(104)	96(58)	85(25)	91(72)	88(61)	85(57)	93(83)
Standard Deviation									
GROUND COVER (Litter+Rock+Veg+St.Dead)	93(90)	96(39)	100(104)	99(58)	99(25)	99(72)	94(61)	91(57)	100(83)
Standard Deviation									
SPECIES DENSITY (# of species/100 sq.m.)	31	43	39	30	35	36	28	34	26
Standard Deviation									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	10	11	12	13	14	15	16	17	18
NATIVE ANNUAL AND BIENNIAL FORBS									
<i>Chenopodium berlandieri</i>									P
<i>Chenopodium sp.</i>						P			
<i>Collomia linearis</i>				P		P			
<i>Descurainia incana</i>						P			
<i>Epilobium brachycarpum</i>				P		P			
<i>Galium bifolium</i>				1	P	2(1)	1	P	(1)
<i>Helianthus annuus</i>							1(1)		
<i>Polygonum douglasii</i>				1	P	P	P		(1)
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS				2	P	2(1)	2(1)	P	(2)
INTRODUCED ANNUAL AND BIENNIAL FORBS									
<i>Capsella bursa-pastoris</i>									
<i>Chenopodium album</i>									
<i>Cirsium vulgare</i>							P		
<i>Cynoglossum officinale</i>					1	P	P		1(1)
<i>Descurainia sp.</i>								P	
<i>Lactuca serriola</i>				P			P		
<i>Mellilotus officinalis</i>				P					
<i>Pocilla biloba</i>				P					
<i>Sisymbrium sp.</i>				P					P
<i>Tragopogon dubius ssp. major</i>				P			P		
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS				P	1	P	P	P	1(1)
NATIVE PERENNIAL FORBS									
<i>Achillea millefolium</i>		P		1(2)	2(2)	1(3)	1		
<i>Actaea rubra ssp. arguta</i>	4(14)	2(1)	(1)					2(3)	1(2)
<i>Agastache urticifolia</i>	(2)	(1)		2(9)	3(4)	5(5)	2	1	(1)
<i>Aquilegia sp.</i>									
<i>Aster foliaceus</i>	(2)	7(10)	P	2	1(1)	3(4)		4(5)	5(5)
<i>Campanula rotundifolia</i>				P			P		
<i>Castilleja sulphurea</i>									
<i>Cirsium sp.</i>			(1)						
<i>Delphinium barbeyi</i>	P				P	1			1
<i>Erigeron sp.</i>							1(1)		
<i>Erigeron speciosus</i>				1		P		P	1
<i>Galium aparine</i>				P		(1)			
<i>Galium septentrionale</i>	1(1)	1(1)	(2)						
<i>Geranium richardsonii</i>			2(4)					1(2)	
<i>Helianthella uniflora</i>							P		
<i>Heliomeris multiflora</i>				P	P		P		3
<i>Heracleum sphondylium ssp. montanum</i>								(1)	(1)
<i>Hydrophyllum fendleri</i>									
<i>Lathyrus leucanthus</i>	(1)	2(10)	1	1(1)	1(1)		1(4)	1(1)	
<i>Ligusticum porteri</i>		2(3)		P	P	1		2(7)	
<i>Lupinus caudatus</i>			(1)	P					
<i>Maianthemum racemosum</i>								P	1
<i>Maianthemum stellatum</i>			(1)						(1)
<i>Mentha arvensis</i>									
<i>Mertensia ciliata</i>				1(2)	1	P		(2)	3(4)
<i>Osmorhiza chilensis</i>				(2)	3(6)	6(2)	1(1)	5(7)	4(1)
<i>Osmorhiza occidentalis</i>	1(2)	2(4)	(6)			1			
<i>Pedicularis procera</i>				P		1	P	P	
<i>Perideridia gairdneri ssp. borealis</i>					2(2)		2(2)	P	P
<i>Prosartes trachycarpa</i>		(1)	1				P	1(3)	(1)
<i>Pseudostellaria jamesiana</i>				1(2)		2(1)			P
<i>Ranunculus sp.</i>						P			
<i>Rudbeckia ampla</i>	(1)	1(6)	7(3)						

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	10	11	12	13	14	15	16	17	18
NATIVE PERENNIAL FORBS (Cont'd)									
<i>Symphytotrichum ascendens</i>									
<i>Thalictrum fendleri</i>	(1)	(2)		3(2)	1(6)	(4)		1(4)	3(6)
<i>Urtica gracilis</i> ssp. <i>gracilis</i>			1(2)						P
<i>Valeriana edulis</i>	1(1)		P	(3)	(3)	5(1)	1	2(2)	1(2)
<i>Veratrum tenuipetalum</i>								P	P
<i>Vicia americana</i>				P	(2)	(1)	3(1)		
<i>Viola scopulorum</i>								3(4)	3(3)
<i>Viola</i> sp.	(11)	1(4)	1(16)	P			(1)		
<i>Viola vallicola</i>									
Native perennial forb								(1)	
Unknown Apiaceae					1(1)				
TOTAL NATIVE PERENNIAL FORBS	7(36)	18(43)	13(37)	12(23)	15(28)	26(22)	12(10)	23(42)	26(27)
INTRODUCED PERENNIAL FORBS									
<i>Cirsium arvense</i>			1						
<i>Taraxacum officinale</i>									
TOTAL INTRODUCED PERENNIAL FORBS			1						
NATIVE PERENNIAL GRASSES (c)									
<i>Achnatherum nelsonii</i>							P		
<i>Bromelica bulbosa</i>							P		
<i>Bromopsis porteri</i>									
<i>Bromus carinatus</i> var. <i>marginatus</i>	P	P	P	3(2)	2(4)	4(1)	P	(1)	P
<i>Bromus ciliatus</i> var. <i>ciliatus</i>				P					
<i>Carex geyeri</i>			(1)	(1)	P	1(3)	(1)	3(15)	(1)
<i>Elymus glaucus</i>	(4)	1	P	5(11)	6(7)	3(2)	2(4)	1(2)	2(3)
<i>Poa compressa</i>						P			
<i>Poa pratensis</i> ssp. <i>agassizensis</i>				2(2)	2	1(5)	4	2(2)	P
TOTAL NATIVE PERENNIAL GRASSES (c)	(4)	1	(1)	10(16)	10(11)	9(11)	6(5)	6(20)	2(4)
INTRODUCED PERENNIAL GRASSES ©									
<i>Agrostis gigantea</i>		1							
<i>Bromopsis inermis</i>				1			42(9)		
<i>Dactylis glomerata</i>	1(3)		3(4)				1		
<i>Phleum pratense</i>	(1)	2(4)				P	P		
<i>Thinopyrum intermedium</i>				7(1)					
TOTAL INTRODUCED PERENNIAL GRASSES (c)	1(4)	3(4)	3(4)	8(1)		P	43(9)		
NATIVE FERN									
<i>Pteridium aquilinum</i> ssp. <i>lanuginosum</i>									
TOTAL NATIVE FERN									
NATIVE SHRUBS									
<i>Acer glabrum</i>	2(1)	7(2)	22(8)					8(4)	5
<i>Amelanchier alnifolia</i>	3(8)	27(2)	1(3)		2	P	4	26(4)	6(8)
<i>Mahonia repens</i>								(1)	
<i>Padus virginiana</i> ssp. <i>melanocarpa</i>	5(15)	3(1)		7(1)	4(5)		3	2	4(3)
<i>Paxistima myrsinites</i>								P	
<i>Quercus gambelii</i>								13(1)	6(1)
<i>Ribes inerme</i>			1						(1)
<i>Rosa woodsii</i>		(1)	(2)	P			P	(2)	1(4)
<i>Rubacer parviflorum</i>	2(2)	8(8)	13(3)						(6)
<i>Shepherdia canadensis</i>									
<i>Symphoricarpos rotundifolius</i>	3(18)	4(12)	1(5)	21(9)	15(12)	29(5)	17(3)	2(1)	4(1)
Native Shrub		3							
TOTAL NATIVE SHRUBS	15(44)	52(26)	38(21)	28(10)	21(17)	29(5)	24(3)	51(13)	26(24)

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	10	11	12	13	14	15	16	17	18
TOTAL NATIVE TREES									
<i>Abies concolor</i>									
<i>Populus tremuloides</i>	71	15(1)	36	22	27	17(3)	P	8(1)	34(1)
<i>Sorbus scopulina</i>			P						
Native Tree									
TOTAL NATIVE TREES	71	15(1)	36	22	27	17(3)	P	8(1)	34(1)
BRYOPHYTES									
Moss			1		P				
TOTAL BRYOPHYTES			1		P				
Standing Dead	2		2		2			1	
Litter	2	10	5	11	17	7	12	7	8
Bare Ground (Soil)	2	1	1	7	7	10	1	4	3
Rock									
TOTALS	100(88)	100(74)	100(63)	100(50)	100(56)	100(42)	100(28)	100(76)	100(59)
TOTAL VEGETATION COVER	94(88)	89(74)	92(63)	82(50)	74(56)	83(42)	87(28)	88(76)	89(59)
Standard Deviation									
GROUND COVER (Litter+Rock+Veg+St.Dead)	98(88)	99(74)	99(63)	93(50)	93(56)	90(42)	99(28)	96(76)	97(59)
Standard Deviation									
SPECIES DENSITY (# of species/100 sq.m.)	21	24	28	38	26	32	35	34	37
Standard Deviation									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

**Table B-3. Cover Data - Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2023**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE ANNUAL AND BIENNIAL FORBS					
<i>Androsace septentrionalis</i>	0.00	0.00	0.00	0.00	6.67
<i>Collinsia parviflora</i>	0.07	0.09	0.07	0.07	20.00
<i>Collomia linearis</i>	0.27	0.35	0.27	0.27	60.00
<i>Descurainia pinnata</i>	0.00	0.00	0.00	0.00	6.67
<i>Epilobium brachycarpum</i>	0.00	0.00	0.00	0.00	13.33
<i>Galium bifolium</i>	0.13	0.18	0.67	0.66	53.33
<i>Grindelia squarrosa</i>	0.00	0.00	0.00	0.00	6.67
<i>Microsteris gracilis ssp. humilis</i>	0.07	0.09	0.13	0.13	13.33
<i>Polygonum douglasii</i>	0.53	0.70	0.67	0.66	73.33
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	1.1	1.4	1.8	1.8	93.3
INTRODUCED ANNUAL AND BIENNIAL FORBS					
<i>Alyssum alyssoides</i>	0.00	0.00	0.00	0.00	6.67
<i>Chenopodium album</i>	0.00	0.00	0.00	0.00	13.33
<i>Cynoglossum officinale</i>	0.07	0.09	0.07	0.07	60.00
<i>Descurainia sp.</i>	0.00	0.00	0.00	0.00	6.67
<i>Lactuca serriola</i>	0.00	0.00	0.07	0.07	33.33
<i>Melilotus officinalis</i>	0.07	0.09	0.07	0.07	6.67
<i>Pocilla biloba</i>	0.27	0.35	0.33	0.33	53.33
<i>Sisymbrium sp.</i>	0.00	0.00	0.00	0.00	6.67
<i>Thlaspi arvense</i>	0.00	0.00	0.00	0.00	6.67
<i>Tragopogon dubius ssp. major</i>	0.00	0.00	0.00	0.00	40.00
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	0.4	0.5	0.5	0.5	100.0
INTRODUCED ANNUAL GRASSES					
<i>Bromus arvensis</i>	1.00	1.31	1.13	1.13	20.00
<i>Bromus tectorum</i>	0.27	0.35	0.73	0.73	13.33
TOTAL INTRODUCED ANNUAL GRASSES	1.3	1.7	1.9	1.9	26.7
NATIVE PERENNIAL FORBS					
<i>Achillea millefolium</i>	0.60	0.79	1.00	0.99	100.00
<i>Agastache urticifolia</i>	0.27	0.35	0.27	0.27	20.00
<i>Agoseris glauca</i>	0.00	0.00	0.00	0.00	13.33
<i>Allium textile</i>	0.33	0.44	0.33	0.33	40.00
<i>Balsamorhiza sagittata</i>	1.20	1.58	1.47	1.46	40.00
<i>Campanula rotundifolia</i>	0.00	0.00	0.00	0.00	6.67
<i>Comandra umbellata ssp. pallida</i>	0.00	0.00	0.07	0.07	6.67
<i>Erigeron speciosus</i>	0.93	1.23	1.07	1.06	46.67
<i>Eriogonum umbellatum</i>	0.53	0.70	0.80	0.80	40.00
<i>Galium aparine</i>	0.07	0.09	0.07	0.07	13.33
<i>Galium septentrionale</i>	0.07	0.09	0.07	0.07	6.67
<i>Glycyrrhiza lepidota</i>	0.00	0.00	0.00	0.00	13.33
<i>Helianthella uniflora</i>	0.33	0.44	0.33	0.33	26.67
<i>Heliomeris multiflora</i>	0.07	0.09	0.13	0.13	53.33
<i>Lathyrus leucanthus</i>	0.87	1.14	1.40	1.39	60.00
<i>Linum lewisii</i>	0.07	0.09	0.07	0.07	6.67
<i>Lithospermum ruderales</i>	0.00	0.00	0.07	0.07	13.33
<i>Lupinus argenteus</i>	0.87	1.14	1.00	0.99	80.00
<i>Lupinus caudatus</i>	0.13	0.18	0.13	0.13	13.33
<i>Machaeranthera canescens</i>	0.00	0.00	0.00	0.00	13.33
<i>Maianthemum racemosum</i>	0.00	0.00	0.00	0.00	6.67
<i>Mertensia ciliata</i>	0.00	0.00	0.00	0.00	13.33
<i>Osmorhiza chilensis</i>	0.07	0.09	0.07	0.07	33.33
<i>Perideridia gairdneri ssp. borealis</i>	0.73	0.96	1.00	0.99	80.00
<i>Phlox longifolia</i>	0.13	0.18	0.20	0.20	26.67
<i>Pseudostellaria jamesiana</i>	3.07	4.03	5.27	5.24	100.00
<i>Senecio integerrimus</i>	0.13	0.18	0.13	0.13	40.00

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

**Table B-3. Cover Data - Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2023**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE PERENNIAL FORBS (Cont'd)					
<i>Symphotrichum ascendens</i>	0.53	0.70	0.60	0.60	33.33
<i>Thalictrum fendleri</i>	0.07	0.09	0.27	0.27	26.67
<i>Vicia americana</i>	0.87	1.14	1.33	1.33	80.00
TOTAL NATIVE PERENNIAL FORBS	11.9	15.7	17.1	17.0	100.0
INTRODUCED PERENNIAL FORBS					
<i>Arabis sp.</i>	0.00	0.00	0.00	0.00	26.67
TOTAL INTRODUCED PERENNIAL FORBS	0.0	0.0	0.0	0.0	26.7
NATIVE PERENNIAL GRASSES (c)					
<i>Achnatherum lettermanii</i>	0.13	0.18	0.13	0.13	20.00
<i>Bromelica bulbosa</i>	0.13	0.18	0.20	0.20	40.00
<i>Bromus carinatus var. marginatus</i>	0.93	1.23	1.33	1.33	80.00
<i>Carex geyeri</i>	4.47	5.87	9.33	9.28	93.33
<i>Carex sp.</i>	0.07	0.09	0.07	0.07	6.67
<i>Elymus elymoides</i>	0.07	0.09	0.07	0.07	6.67
<i>Elymus glaucus</i>	0.27	0.35	0.80	0.80	53.33
<i>Elymus trachycaulus</i>	0.07	0.09	0.07	0.07	20.00
<i>Hesperostipa comata</i>	0.07	0.09	0.13	0.13	26.67
<i>Nassella viridula</i>	0.27	0.35	0.53	0.53	46.67
<i>Pascopyrum smithii</i>	0.13	0.18	0.20	0.20	26.67
<i>Poa pratensis ssp. agassizensis</i>	1.60	2.10	3.53	3.51	86.67
<i>Pseudoroegneria spicata ssp. spicata</i>	0.73	0.96	1.07	1.06	66.67
TOTAL NATIVE PERENNIAL GRASSES (c)	8.9	11.7	17.5	17.4	100.0
INTRODUCED PERENNIAL GRASSES (c)					
<i>Bromopsis inermis</i>	0.33	0.44	0.40	0.40	20.00
<i>Dactylis glomerata</i>	0.07	0.09	0.27	0.27	6.67
<i>Festuca ovina</i>	0.00	0.00	0.00	0.00	6.67
<i>Phleum pratense</i>	0.07	0.09	0.07	0.07	13.33
<i>Thinopyrum intermedium</i>	0.07	0.09	0.13	0.13	20.00
TOTAL INTRODUCED PERENNIAL GRASSES (c)	0.5	0.7	0.9	0.9	53.3
NATIVE SHRUBS					
<i>Amelanchier alnifolia</i>	2.27	2.98	3.47	3.45	100.00
<i>Artemisia tridentata</i>	3.93	5.17	4.73	4.71	73.33
<i>Chrysothamnus viscidiflorus</i>	0.87	1.14	1.13	1.13	60.00
<i>Mahonia repens</i>	1.33	1.75	1.33	1.33	13.33
<i>Padus virginiana ssp. melanocarpa</i>	0.73	0.96	1.53	1.53	60.00
<i>Paxistima myrsinites</i>	0.07	0.09	0.13	0.13	13.33
<i>Quercus gambelii</i>	27.67	36.34	28.13	27.98	100.00
<i>Ribes inerme</i>	0.07	0.09	0.13	0.13	13.33
<i>Rosa woodsii</i>	0.13	0.18	0.20	0.20	20.00
<i>Symphoricarpos rotundifolius</i>	14.93	19.61	20.07	19.96	100.00
TOTAL NATIVE SHRUBS	52.0	68.3	60.9	60.5	100.0
BRYOPHYTES					
Moss	0.00	0.00	0.00	0.00	6.67
TOTAL BRYOPHYTES	0.0	0.0	0.0	0.0	6.7

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

**Table B-3. Cover Data - Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2023**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
Standing Dead	1.80		1.80		
Litter	15.33		15.33		
Bare Ground (Soil)	6.47		6.47		
Rock	0.27		0.27		
TOTALS	100		124		
TOTAL VEGETATION COVER	76.1		100.5		
<i>Standard Deviation</i>	6.999		12.047		
GROUND COVER (Litter+Rock+Veg+St.Dead)	93.5		117.9		
<i>Standard Deviation</i>	2.949		7.667		
SPECIES DENSITY (# of species/100 sq.m.)	28.1				
<i>Standard Deviation</i>	4.250				

^a First Hit Cover = Absolute percent cover in vertical view with no account of plants obscured by first (i.e. top) hit.

^b First Hit Relative Cover = Percent of the First Hit vegetation cover comprised of this species or lifeform

^c All Hit Cover = Absolute percent cover in vertical view accounting for all cover by the species or lifeform, whether over-arched by other plants or not

^d All Hit Relative Cover = Percent of the All Hit vegetation cover comprised of the species or lifeform

^e Frequency = Percent of the samples in which a species or lifeform occurred

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES

Percent Foliar Cover

---Sample Number---

	01	02	03	04	05	06	07	08	09
NATIVE ANNUAL AND BIENNIAL FORBS									
<i>Androsace septentrionalis</i>							P		
<i>Collinsia parviflora</i>									P
<i>Collomia linearis</i>			P	1	P	P	1		P
<i>Descurainia pinnata</i>				P					
<i>Epilobium brachycarpum</i>					P				
<i>Galium bifolium</i>	(1)		(1)		P		2		
<i>Grindelia squarrosa</i>									
<i>Microsteris gracilis ssp. humilis</i>									
<i>Polygonum douglasii</i>			3	P	P	2(1)	P	P	P
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	(1)		3(1)	1	P	2(1)	3	P	P
INTRODUCED ANNUAL AND BIENNIAL FORBS									
<i>Alyssum alyssoides</i>						P			
<i>Chenopodium album</i>					P		P		
<i>Cynoglossum officinale</i>	P		P			P	P		P
<i>Descurainia sp.</i>							P		
<i>Lactuca serriola</i>					P	P			P
<i>Melilotus officinalis</i>									1
<i>Pocilla biloba</i>	P		P			1	P	1	
<i>Sisymbrium sp.</i>					P				
<i>Thlaspi arvense</i>				P					
<i>Tragopogon dubius ssp. major</i>		P	P	P	P				
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	P	P	P	P	P	1	P	1	1
INTRODUCED ANNUAL GRASSES									
<i>Bromus arvensis</i>				4(2)		9			
<i>Bromus tectorum</i>		(3)		4(4)					
TOTAL INTRODUCED ANNUAL GRASSES		(3)		8(6)		9			
NATIVE PERENNIAL FORBS									
<i>Achillea millefolium</i>	P	P	P	2	2	P	2	P	(1)
<i>Agastache urticifolia</i>									
<i>Agoseris glauca</i>		P							
<i>Allium textile</i>	P			P	P	P			1
<i>Balsamorhiza sagittata</i>	3	8		3(3)		(1)		1	
<i>Campanula rotundifolia</i>							P		
<i>Comandra umbellata ssp. pallida</i>			(1)						
<i>Erigeron speciosus</i>			2		1		1	2	
<i>Eriogonum umbellatum</i>		P			P				2(1)
<i>Galium aparine</i>									
<i>Galium septentrionale</i>									
<i>Glycyrrhiza lepidota</i>							P		
<i>Helianthella uniflora</i>	P	4			1				
<i>Heliomeris multiflora</i>	P			P		P		P	
<i>Lathyrus leucanthus</i>		5			1(2)		(1)	2(1)	P
<i>Linum lewisii</i>		1							
<i>Lithospermum ruderales</i>	P								
<i>Lupinus argenteus</i>	1	P	P	P		3		2(1)	1
<i>Lupinus caudatus</i>					2				
<i>Machaeranthera canescens</i>				P					
<i>Maianthemum racemosum</i>							P		
<i>Mertensia ciliata</i>			P				P		
<i>Osmorhiza chilensis</i>			1		P				P
<i>Perideridia gairdneri ssp. borealis</i>	5(1)		P	1	P	(1)	3	(1)	1(1)
<i>Phlox longifolia</i>		2	(1)			P			
<i>Pseudostellaria jamesiana</i>	4(4)	1(2)	1	6(8)	3(1)	9(4)	1(3)	(1)	1
<i>Senecio integerrimus</i>		1			P	P			

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES

Percent Foliar Cover

---Sample Number---

	01	02	03	04	05	06	07	08	09
NATIVE PERENNIAL FORBS (Cont'd)									
<i>Symphotrichum ascendens</i>	3(1)	P		3		2			
<i>Thalictrum fendleri</i>			1(2)		P		(1)		
<i>Vicia americana</i>	P	P	P			P		7(1)	P
TOTAL NATIVE PERENNIAL FORBS	16(6)	22(2)	5(4)	15(11)	10(3)	14(6)	7(5)	14(5)	6(3)
INTRODUCED PERENNIAL FORBS									
<i>Arabis sp.</i>	P	P		P		P			
TOTAL INTRODUCED PERENNIAL FORBS	P	P		P		P			
NATIVE PERENNIAL GRASSES (c)									
<i>Achnatherum lettermanii</i>		P				1			
<i>Bromelica bulbosa</i>	1			P			(1)		1
<i>Bromus carinatus var. marginatus</i>	1(1)		P	1	P	4	(1)		3
<i>Carex geyeri</i>	1(1)	6(2)	3(1)		8(9)	1(5)	3(5)	4(9)	8(8)
<i>Carex sp.</i>				1					
<i>Elymus elymoides</i>									
<i>Elymus glaucus</i>			(2)		1(3)	P	2(1)		P
<i>Elymus trachycaulus</i>			1	P					
<i>Hesperostipa comata</i>			1(1)	P		P			
<i>Nassella viridula</i>	1(1)		P	P	1				2
<i>Pascopyrum smithii</i>		1			P	P			
<i>Poa pratensis ssp. agassizensis</i>	3(1)	(1)	1		2(1)	P	P	2(2)	3(4)
<i>Pseudoroegneria spicata ssp. spicata</i>	(1)	3(1)		1	P	1		3(1)	1(1)
TOTAL NATIVE PERENNIAL GRASSES (c)	7(5)	10(4)	6(4)	3	12(13)	7(5)	5(8)	9(12)	18(13)
INTRODUCED PERENNIAL GRASSES (c)									
<i>Bromopsis inermis</i>					4(1)		P	1	
<i>Dactylis glomerata</i>									1(3)
<i>Festuca ovina</i>		P							
<i>Phleum pratense</i>	1								
<i>Thinopyrum intermedium</i>					P				1(1)
TOTAL INTRODUCED PERENNIAL GRASSES (c)	1	P			4(1)		P	1	2(4)
NATIVE SHRUBS									
<i>Amelanchier alnifolia</i>	1(1)	4(1)	2(3)	1(1)	7(1)	(2)	1(3)	1	(1)
<i>Artemisia tridentata</i>	3	8(2)		10	2(2)	8(1)		14(1)	1(2)
<i>Chrysothamnus viscidiflorus</i>	P	1		2(1)		P		8(1)	(2)
<i>Mahonia repens</i>					19				
<i>Padus virginiana ssp. melanocarpa</i>	P		2(1)		P		3(2)		2(4)
<i>Paxistima myrsinites</i>							(1)		
<i>Quercus gambelii</i>	24	12(1)	33	P	20(2)	23(2)	48(2)	13	48
<i>Ribes inerme</i>	1				(1)				
<i>Rosa woodsii</i>	1						(1)		
<i>Symphoricarpos rotundifolius</i>	30(8)	6(2)	25(9)	33(5)	6(2)	14(4)	4(2)	20(4)	8(4)
TOTAL NATIVE SHRUBS	60(9)	31(6)	62(13)	46(7)	54(8)	45(9)	56(11)	56(6)	59(13)
BRYOPHYTES									
Moss							P		
TOTAL BRYOPHYTES							P		

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

**Table B-3. Cover Data - Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2023**

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	01	02	03	04	05	06	07	08	09
Standing Dead		2	1	4		7		1	1
Litter	13	27	14	20	11	8	17	10	9
Bare Ground (Soil)	1	8	9	3	9	6	12	7	4
Rock	2					1		1	
TOTALS	100(21)	100(15)	100(22)	100(24)	100(25)	100(21)	100(24)	100(23)	100(33)
TOTAL VEGETATION COVER	84(21)	63(15)	76(22)	73(24)	80(25)	78(21)	71(24)	81(23)	86(33)
<i>Standard Deviation</i>									
GROUND COVER (Litter+Rock+Veg+St.Dead)	99(21)	92(15)	91(22)	97(24)	91(25)	94(21)	88(24)	93(23)	96(33)
<i>Standard Deviation</i>									
SPECIES DENSITY (# of species/100 sq.m.)	30	27	29	29	36	32	31	20	30
<i>Standard Deviation</i>									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---					
	10	11	12	13	14	15
NATIVE ANNUAL AND BIENNIAL FORBS						
<i>Androsace septentrionalis</i>						
<i>Collinsia parviflora</i>			P			1
<i>Collomia linearis</i>		2	P			P
<i>Descurainia pinnata</i>						
<i>Epilobium brachycarpum</i>		P				
<i>Galium bifolium</i>	(1)		(1)	(1)	(3)	
<i>Grindelia squarrosa</i>		P				
<i>Microsteris gracilis ssp. humilis</i>	1		(1)			
<i>Polygonum douglasii</i>			P	1	P	2(1)
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	1(1)	2	(2)	1(1)	(3)	3(1)
INTRODUCED ANNUAL AND BIENNIAL FORBS						
<i>Alyssum alyssoides</i>						
<i>Chenopodium album</i>						
<i>Cynoglossum officinale</i>			P	1	P	P
<i>Descurainia sp.</i>						
<i>Lactuca serriola</i>			P	(1)		
<i>Melilotus officinalis</i>						
<i>Pocilla biloba</i>	1	1		(1)		
<i>Sisymbrium sp.</i>						
<i>Thlaspi arvense</i>						
<i>Tragopogon dubius ssp. major</i>					P	P
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	1	1	P	1(2)	P	P
INTRODUCED ANNUAL GRASSES						
<i>Bromus arvensis</i>		2				
<i>Bromus tectorum</i>						
TOTAL INTRODUCED ANNUAL GRASSES		2				
NATIVE PERENNIAL FORBS						
<i>Achillea millefolium</i>	1	2(1)	(2)	(1)	(1)	P
<i>Agastache urticifolia</i>			P		4	P
<i>Agoseris glauca</i>		P				
<i>Allium textile</i>		4				
<i>Balsamorhiza sagittata</i>	3					
<i>Campanula rotundifolia</i>						
<i>Comandra umbellata ssp. pallida</i>						
<i>Erigeron speciosus</i>				1	4(2)	3
<i>Eriogonum umbellatum</i>	P		5(3)	1		
<i>Galium aparine</i>					1	P
<i>Galium septentrionale</i>						1
<i>Glycyrrhiza lepidota</i>	P					
<i>Helianthella uniflora</i>		P				
<i>Heliomeris multiflora</i>		P	P		P	1(1)
<i>Lathyrus leucanthus</i>	2(1)			3(1)	(1)	(1)
<i>Linum lewisii</i>						
<i>Lithospermum ruderales</i>	(1)					
<i>Lupinus argenteus</i>	1	2(1)	P	2	1	
<i>Lupinus caudatus</i>					P	
<i>Machaeranthera canescens</i>		P				
<i>Maianthemum racemosum</i>						
<i>Mertensia ciliata</i>						
<i>Osmorhiza chilensis</i>				P	P	
<i>Perideridia gairdneri ssp. borealis</i>		P	P		1	P
<i>Phlox longifolia</i>		P				
<i>Pseudostellaria jamesiana</i>	1(2)	13(2)	P	(2)	(1)	6(3)
<i>Senecio integerrimus</i>	1	P		P		

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover					
	---Sample Number---					
	10	11	12	13	14	15
NATIVE PERENNIAL FORBS (Cont'd)						
<i>Symphotrichum ascendens</i>		P				
<i>Thalictrum fendleri</i>				P		
<i>Vicia americana</i>	3(3)	1	(1)	(1)	1	1(1)
TOTAL NATIVE PERENNIAL FORBS	12(7)	22(4)	5(6)	7(5)	12(5)	12(6)
INTRODUCED PERENNIAL FORBS						
<i>Arabis sp.</i>						
TOTAL INTRODUCED PERENNIAL FORBS						
NATIVE PERENNIAL GRASSES (c)						
<i>Achnatherum lettermanii</i>			1			
<i>Bromelica bulbosa</i>		P				P
<i>Bromus carinatus var. marginatus</i>		1	1	1(2)	2	(2)
<i>Carex geyeri</i>	10(5)	8(3)	(5)	9(9)	2(6)	4(5)
<i>Carex sp.</i>						
<i>Elymus elymoides</i>		1				
<i>Elymus glaucus</i>			P	1		(2)
<i>Elymus trachycaulus</i>			P			
<i>Hesperostipa comata</i>		P				
<i>Nassella viridula</i>			(3)	P		
<i>Pascopyrum smithii</i>		1(1)				
<i>Poa pratensis ssp. agassizensis</i>		1	6(9)	2(1)	(4)	4(6)
<i>Pseudoroegneria spicata ssp. spicata</i>	(1)	P	2			
TOTAL NATIVE PERENNIAL GRASSES (c)	10(6)	12(4)	10(17)	13(12)	4(10)	8(15)
INTRODUCED PERENNIAL GRASSES (c)						
<i>Bromopsis inermis</i>						
<i>Dactylis glomerata</i>						
<i>Festuca ovina</i>						
<i>Phleum pratense</i>					P	
<i>Thinopyrum intermedium</i>			P			
TOTAL INTRODUCED PERENNIAL GRASSES (c)			P		P	
NATIVE SHRUBS						
<i>Amelanchier alnifolia</i>	2	2	1(1)	5(1)	5(2)	2(1)
<i>Artemisia tridentata</i>	(1)	10	3(2)		(1)	
<i>Chrysothamnus viscidiflorus</i>	1	P			1	
<i>Mahonia repens</i>	1					
<i>Padus virginiana ssp. melanocarpa</i>		P	(3)		1(2)	3
<i>Paxistima myrsinites</i>	1					
<i>Quercus gambelii</i>	22	13	50	33	32	44
<i>Ribes inerme</i>						
<i>Rosa woodsii</i>				1		
<i>Symphoricarpos rotundifolius</i>	11(3)	11(4)	5(6)	18(14)	29(7)	4(3)
TOTAL NATIVE SHRUBS	38(4)	36(4)	59(12)	57(15)	68(12)	53(4)
BRYOPHYTES						
Moss						
TOTAL BRYOPHYTES						

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

**Table B-3. Cover Data - Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2023**

PLANT SPECIES	Percent Foliar Cover					
	---Sample Number---					
	10	11	12	13	14	15
Standing Dead		5	2	1	1	2
Litter	29	16	15	15	11	15
Bare Ground (Soil)	9	4	9	5	4	7
Rock						
TOTALS	100(18)	100(12)	100(37)	100(35)	100(30)	100(26)
TOTAL VEGETATION COVER	62(18)	75(12)	74(37)	79(35)	84(30)	76(26)
<i>Standard Deviation</i>						
GROUND COVER (Litter+Rock+Veg+St.Dead)	91(18)	96(12)	91(37)	95(35)	96(30)	93(26)
<i>Standard Deviation</i>						
SPECIES DENSITY (# of species/100 sq.m.)	22	32	29	24	26	24
<i>Standard Deviation</i>						

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

**Table B-4. Cover Data - Sagebrush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2023**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE ANNUAL AND BIENNIAL FORBS					
<i>Collomia linearis</i>	0.65	0.83	0.76	0.83	76.47
<i>Cordylanthus ramosus</i>	0.35	0.45	0.35	0.38	5.88
<i>Epilobium brachycarpum</i>	0.06	0.08	0.18	0.19	5.88
<i>Polygonum douglasii</i>	0.41	0.53	0.41	0.44	41.18
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	1.5	1.9	1.7	1.8	82.4
INTRODUCED ANNUAL AND BIENNIAL FORBS					
<i>Alyssum alyssoides</i>	0.24	0.30	0.24	0.25	5.88
<i>Alyssum parviflorum</i>	0.00	0.00	0.06	0.06	5.88
<i>Cynoglossum officinale</i>	0.06	0.08	0.24	0.25	23.53
<i>Lactuca serriola</i>	0.06	0.08	0.12	0.13	11.76
<i>Lappula redowskii</i>	0.00	0.00	0.00	0.00	5.88
<i>Pocilla biloba</i>	0.88	1.13	1.18	1.27	47.06
<i>Sisymbrium altissimum</i>	0.00	0.00	0.00	0.00	5.88
<i>Thlaspi arvense</i>	0.00	0.00	0.00	0.00	5.88
<i>Tragopogon dubius ssp. major</i>	0.06	0.08	0.06	0.06	35.29
<i>Turritis glabra</i>	0.00	0.00	0.00	0.00	17.65
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	1.3	1.7	1.9	2.0	58.8
INTRODUCED ANNUAL GRASSES					
<i>Bromus arvensis</i>	1.65	2.12	2.24	2.41	47.06
<i>Bromus tectorum</i>	0.00	0.00	0.00	0.00	5.88
TOTAL INTRODUCED ANNUAL GRASSES	1.6	2.1	2.2	2.4	47.1
NATIVE PERENNIAL FORBS					
<i>Achillea millefolium</i>	1.53	1.97	2.53	2.73	88.24
<i>Agastache urticifolia</i>	0.94	1.21	1.12	1.21	29.41
<i>Agoseris glauca</i>	0.00	0.00	0.06	0.06	11.76
<i>Allium textile</i>	0.59	0.76	0.71	0.76	64.71
<i>Artemisia dracunculus</i>	0.47	0.60	0.71	0.76	17.65
<i>Astragalus miser var. oblongifolius</i>	1.53	1.97	1.88	2.03	29.41
<i>Balsamorhiza sagittata</i>	0.76	0.98	1.00	1.08	58.82
<i>Calochortus nuttallii</i>	0.00	0.00	0.00	0.00	5.88
<i>Castilleja chromosa</i>	0.06	0.08	0.06	0.06	5.88
<i>Cirsium sp.</i>	0.12	0.15	0.12	0.13	29.41
<i>Crepis occidentalis</i>	0.00	0.00	0.00	0.00	5.88
<i>Delphinium nuttallianum</i>	0.00	0.00	0.06	0.06	23.53
<i>Erigeron engelmannii</i>	0.06	0.08	0.06	0.06	5.88
<i>Erigeron speciosus</i>	0.18	0.23	0.24	0.25	58.82
<i>Eriogonum umbellatum</i>	0.41	0.53	0.71	0.76	35.29
<i>Geranium richardsonii</i>	0.00	0.00	0.00	0.00	5.88
<i>Helianthella uniflora</i>	0.41	0.53	0.47	0.51	29.41
<i>Helioomeris multiflora</i>	0.53	0.68	0.71	0.76	47.06
<i>Lathyrus leucanthus</i>	0.65	0.83	1.00	1.08	47.06
<i>Linum lewisii</i>	0.06	0.08	0.06	0.06	5.88
<i>Lithospermum ruderae</i>	0.06	0.08	0.06	0.06	23.53
<i>Lomatium sp.</i>	0.00	0.00	0.00	0.00	11.76
<i>Lupinus argenteus</i>	3.18	4.08	3.65	3.94	94.12
<i>Microseris nutans</i>	0.00	0.00	0.00	0.00	5.88
<i>Perideridia gairdneri ssp. borealis</i>	0.76	0.98	0.82	0.89	70.59
<i>Phlox longifolia</i>	0.71	0.91	0.71	0.76	52.94
<i>Pseudostellaria jamesiana</i>	1.59	2.04	2.00	2.16	64.71
<i>Senecio integerrimus</i>	0.00	0.00	0.00	0.00	17.65
<i>Symphyotrichum ascendens</i>	0.18	0.23	0.18	0.19	17.65
<i>Urtica gracilis ssp. gracilis</i>	0.00	0.00	0.06	0.06	5.88
<i>Valeriana edulis</i>	0.00	0.00	0.00	0.00	5.88
<i>Vicia americana</i>	0.88	1.13	1.00	1.08	64.71

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

**Table B-4. Cover Data - Sagebrush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2023**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE PERENNIAL FORBS (Cont'd)					
<i>Wyethia amplexicaulis</i>	1.53	1.97	1.59	1.71	5.88
TOTAL NATIVE PERENNIAL FORBS	17.2	22.1	21.5	23.2	100.0
INTRODUCED PERENNIAL FORBS					
<i>Medicago sativa</i>	0.06	0.08	0.06	0.06	11.76
TOTAL INTRODUCED PERENNIAL FORBS	0.1	0.1	0.1	0.1	11.8
NATIVE PERENNIAL GRASSES (c)					
<i>Achnatherum lettermanii</i>	0.35	0.45	0.35	0.38	11.76
<i>Bromelica bulbosa</i>	0.71	0.91	0.82	0.89	35.29
<i>Bromopsis porteri</i>	0.00	0.00	0.00	0.00	5.88
<i>Bromus carinatus</i> var. <i>marginatus</i>	1.29	1.66	1.76	1.90	64.71
<i>Carex geyeri</i>	0.35	0.45	0.71	0.76	29.41
<i>Carex</i> sp.	0.12	0.15	0.12	0.13	5.88
<i>Elymus elymoides</i>	0.12	0.15	0.12	0.13	17.65
<i>Elymus glaucus</i>	0.29	0.38	0.41	0.44	17.65
<i>Elymus lanceolatus</i> sp. <i>lanceolatus</i>	0.06	0.08	0.06	0.06	5.88
<i>Elymus trachycaulus</i>	0.47	0.60	0.59	0.63	41.18
<i>Hesperostipa comata</i>	0.47	0.60	0.59	0.63	11.76
<i>Koeleria macrantha</i>	0.06	0.08	0.06	0.06	17.65
<i>Nassella viridula</i>	0.12	0.15	0.18	0.19	11.76
<i>Pascopyrum smithii</i>	1.71	2.19	2.06	2.22	64.71
<i>Poa pratensis</i> ssp. <i>agassizensis</i>	1.41	1.81	2.82	3.05	76.47
<i>Poa secunda</i>	0.65	0.83	0.82	0.89	35.29
<i>Pseudoroegneria spicata</i> ssp. <i>spicata</i>	3.53	4.54	4.53	4.89	64.71
TOTAL NATIVE PERENNIAL GRASSES (c)	11.7	15.0	16.0	17.3	100.0
INTRODUCED PERENNIAL GRASSES (c)					
<i>Bromopsis inermis</i>	3.41	4.38	3.76	4.06	23.53
<i>Dactylis glomerata</i>	0.00	0.00	0.00	0.00	5.88
<i>Festuca ovina</i>	0.12	0.15	0.12	0.13	5.88
<i>Phleum pratense</i>	0.06	0.08	0.06	0.06	5.88
<i>Poa pratensis</i> ssp. <i>pratensis</i>	0.06	0.08	0.06	0.06	5.88
<i>Thinopyrum intermedium</i>	0.24	0.30	0.29	0.32	23.53
TOTAL INTRODUCED PERENNIAL GRASSES (c)	3.9	5.0	4.3	4.6	52.9
NATIVE SHRUBS					
<i>Amelanchier alnifolia</i>	0.71	0.91	0.76	0.83	58.82
<i>Artemisia cana</i>	0.18	0.23	0.24	0.25	5.88
<i>Artemisia tridentata</i>	19.00	24.41	20.18	21.78	100.00
<i>Chrysothamnus viscidiflorus</i>	1.94	2.49	2.24	2.41	82.35
<i>Ericameria nauseosa</i>	0.06	0.08	0.06	0.06	11.76
<i>Mahonia repens</i>	0.06	0.08	0.06	0.06	11.76
<i>Padus virginiana</i> ssp. <i>melanocarpa</i>	0.00	0.00	0.00	0.00	11.76
<i>Purshia tridentata</i>	0.06	0.08	0.12	0.13	5.88
<i>Quercus gambelii</i>	0.06	0.08	0.06	0.06	5.88
<i>Rosa woodsii</i>	0.00	0.00	0.00	0.00	5.88
<i>Symphoricarpos rotundifolius</i>	18.53	23.81	21.24	22.92	100.00
TOTAL NATIVE SHRUBS	40.6	52.2	44.9	48.5	100.0

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
Standing Dead	3.94		3.94		
Litter	13.06		13.06		
Bare Ground (Soil)	4.82		4.82		
Rock	0.35		0.35		
TOTALS	100		115		
TOTAL VEGETATION COVER	77.8		92.6		
<i>Standard Deviation</i>	8.604		12.908		
GROUND COVER (Litter+Rock+Veg+St.Dead)	95.2		110.0		
<i>Standard Deviation</i>	3.358		7.649		
SPECIES DENSITY (# of species/100 sq.m.)	23.9				
<i>Standard Deviation</i>	6.408				

^a First Hit Cover = Absolute percent cover in vertical view with no account of plants obscured by first (i.e. top) hit.

^b First Hit Relative Cover = Percent of the First Hit vegetation cover comprised of this species or lifeform

^c All Hit Cover = Absolute percent cover in vertical view accounting for all cover by the species or lifeform, whether over-arched by other plants or not

^d All Hit Relative Cover = Percent of the All Hit vegetation cover comprised of the species or lifeform

^e Frequency = Percent of the samples in which a species or lifeform occurred

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE ANNUAL AND BIENNIAL FORBS									
<i>Collomia linearis</i>	1		(1)	1	1			3	
<i>Cordylanthus ramosus</i>		6							
<i>Epilobium brachycarpum</i>									
<i>Polygonum douglasii</i>		P		2					
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	1	6	(1)	3	1			3	
INTRODUCED ANNUAL AND BIENNIAL FORBS									
<i>Alyssum alyssoides</i>									
<i>Alyssum parviflorum</i>								(1)	
<i>Cynoglossum officinale</i>					P				
<i>Lactuca serriola</i>	1								
<i>Lappula redowskii</i>									
<i>Pocilla biloba</i>	4(3)		2				3	1	
<i>Sisymbrium altissimum</i>									
<i>Thlaspi arvense</i>									
<i>Tragopogon dubius ssp. major</i>		P			1		P	P	
<i>Turritis glabra</i>							P		
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	5(3)		2		1		3	1(1)	
INTRODUCED ANNUAL GRASSES									
<i>Bromus arvensis</i>	5		4(1)					4(3)	
<i>Bromus tectorum</i>									
TOTAL INTRODUCED ANNUAL GRASSES	5		4(1)					4(3)	
NATIVE PERENNIAL FORBS									
<i>Achillea millefolium</i>	4(1)	1	4(1)		3(2)		2	P	3(1)
<i>Agastache urticifolia</i>				8	1(2)				
<i>Agoseris glauca</i>	P								
<i>Allium textile</i>	P	1	2				1	P	1
<i>Artemisia dracunculus</i>				6(2)					
<i>Astragalus miser var. oblongifolius</i>	4(2)					3	8(2)		5(1)
<i>Balsamorhiza sagittata</i>	P	3	(1)			(1)	1	2(2)	1
<i>Calochortus nuttallii</i>									
<i>Castilleja chromosa</i>		1							
<i>Cirsium sp.</i>					P		P		
<i>Crepis occidentalis</i>									
<i>Delphinium nuttallianum</i>	P					(1)		P	
<i>Erigeron engelmannii</i>								1	
<i>Erigeron speciosus</i>	(1)			P		P		P	1
<i>Eriogonum umbellatum</i>			P	P	1				
<i>Geranium richardsonii</i>									
<i>Helianthella uniflora</i>	P		1(1)						3
<i>Helioomeris multiflora</i>	2			P	1			(1)	
<i>Lathyrus leucanthus</i>				(1)	1(1)				
<i>Linum lewisii</i>									
<i>Lithospermum ruderales</i>				1				P	
<i>Lomatium sp.</i>								P	
<i>Lupinus argenteus</i>	4(2)	8	1	1(1)	P	3	6	4	
<i>Microseris nutans</i>		P							
<i>Perideridia gairdneri ssp. borealis</i>	3	P	P	2	2(1)		P	1	
<i>Phlox longifolia</i>	2	4			P		1	P	
<i>Pseudostellaria jamesiana</i>	3		2	4					1
<i>Senecio integerrimus</i>	P		P						
<i>Symphyotrichum ascendens</i>					P		P		3
<i>Urtica gracilis ssp. gracilis</i>					(1)				
<i>Valeriana edulis</i>									
<i>Vicia americana</i>			1(1)	7(1)	1		1		1

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE PERENNIAL FORBS (Cont'd)									
<i>Wyethia amplexicaulis</i>									26(1)
TOTAL NATIVE PERENNIAL FORBS	22(6)	18	11(4)	29(5)	10(7)	6(2)	20(2)	8(3)	45(3)
INTRODUCED PERENNIAL FORBS									
<i>Medicago sativa</i>					1				
TOTAL INTRODUCED PERENNIAL FORBS					1				
NATIVE PERENNIAL GRASSES (c)									
<i>Achnatherum lettermanii</i>	P								6
<i>Bromelica bulbosa</i>			5						
<i>Bromopsis porteri</i>					P				
<i>Bromus carinatus</i> var. <i>marginatus</i>	3	1	3	(2)	2		(1)		
<i>Carex geyeri</i>					1				
<i>Carex</i> sp.									2
<i>Elymus elymoides</i>	P								
<i>Elymus glaucus</i>									
<i>Elymus lanceolatus</i> sp. <i>lanceolatus</i>		1							
<i>Elymus trachycaulus</i>	2				1				1
<i>Hesperostipa comata</i>		1							
<i>Koeleria macrantha</i>	1							P	
<i>Nassella viridula</i>				(1)	2				
<i>Pascopyrum smithii</i>	1		1		8	1	3(2)	9(2)	
<i>Poa pratensis</i> ssp. <i>agassizensis</i>		2(2)	(1)	2(1)	9(9)		3		1
<i>Poa secunda</i>			1				3	4(1)	
<i>Pseudoroegneria spicata</i> ssp. <i>spicata</i>	3(2)	2	9(5)				9(4)	4	
TOTAL NATIVE PERENNIAL GRASSES (c)	10(2)	7(2)	19(6)	2(4)	23(9)	1	18(7)	17(3)	10
INTRODUCED PERENNIAL GRASSES (c)									
<i>Bromopsis inermis</i>	3				1	53(6)			
<i>Dactylis glomerata</i>					P				
<i>Festuca ovina</i>									
<i>Phleum pratense</i>					1				
<i>Poa pratensis</i> ssp. <i>pratensis</i>									1
<i>Thinopyrum intermedium</i>				1					
TOTAL INTRODUCED PERENNIAL GRASSES (c)	3			1	2	53(6)			1
NATIVE SHRUBS									
<i>Amelanchier alnifolia</i>		1		1	(1)			4	
<i>Artemisia cana</i>					3(1)				
<i>Artemisia tridentata</i>	26(1)	23	36(1)	17(4)	12(1)	13(2)	27(2)	28	12
<i>Chrysothamnus viscidiflorus</i>	1(1)	(1)	3		P	2(1)	2(1)	4(1)	
<i>Ericameria nauseosa</i>							1	P	
<i>Mahonia repens</i>									
<i>Padus virginiana</i> ssp. <i>melanocarpa</i>					P				
<i>Purshia tridentata</i>									
<i>Quercus gambelii</i>									
<i>Rosa woodsii</i>					P				
<i>Symphoricarpos rotundifolius</i>	3(1)	3	2(2)	41(13)	34(6)	4(1)	13(3)	4	21(2)
TOTAL NATIVE SHRUBS	30(3)	27(1)	41(3)	59(17)	49(9)	19(4)	43(6)	40(1)	33(2)

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	01	02	03	04	05	06	07	08	09
Standing Dead	5	8	5	1	2	5	2	9	3
Litter	17	24	14	2	7	15	10	16	7
Bare Ground (Soil)	2	9	4	3	3	1	4	1	1
Rock		1			1			1	
TOTALS	100(14)	100(3)	100(15)	100(26)	100(25)	100(12)	100(15)	100(11)	100(5)
TOTAL VEGETATION COVER	76(14)	58(3)	77(15)	94(26)	87(25)	79(12)	84(15)	73(11)	89(5)
<i>Standard Deviation</i>									
GROUND COVER (Litter+Rock+Veg+St.Dead)	98(14)	91(3)	96(15)	97(26)	97(25)	99(12)	96(15)	99(11)	99(5)
<i>Standard Deviation</i>									
SPECIES DENSITY (# of species/100 sq.m.)	29	20	22	20	33	10	22	26	17
<i>Standard Deviation</i>									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---							
	10	11	12	13	14	15	16	17
NATIVE ANNUAL AND BIENNIAL FORBS								
<i>Collomia linearis</i>	1	P	1	P	P	P	2	1(1)
<i>Cordylanthus ramosus</i>								
<i>Epilobium brachycarpum</i>								1(2)
<i>Polygonum douglasii</i>	1			P		1	1	2
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	2	P	1	P	P	1	3	4(3)
INTRODUCED ANNUAL AND BIENNIAL FORBS								
<i>Alyssum alyssoides</i>								4
<i>Alyssum parviflorum</i>								
<i>Cynoglossum officinale</i>				(2)	P	1(1)		
<i>Lactuca serriola</i>						(1)		
<i>Lappula redowskii</i>						P		
<i>Pocilla biloba</i>				1	1(1)		3	(1)
<i>Sisymbrium altissimum</i>								P
<i>Thlaspi arvense</i>								P
<i>Tragopogon dubius ssp. major</i>					P			P
<i>Turritis glabra</i>						P	P	
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS				1(2)	1(1)	1(2)	3	4(1)
INTRODUCED ANNUAL GRASSES								
<i>Bromus arvensis</i>			4(2)	P		P	3(3)	8(1)
<i>Bromus tectorum</i>								P
TOTAL INTRODUCED ANNUAL GRASSES			4(2)	P		P	3(3)	8(1)
NATIVE PERENNIAL FORBS								
<i>Achillea millefolium</i>	(4)	2(1)	1(2)	3(1)	P	(2)	(2)	3
<i>Agastache urticifolia</i>				6	1	(1)		
<i>Agoseris glauca</i>							(1)	
<i>Allium textile</i>		P	2(1)	P			1(1)	2
<i>Artemisia dracunculus</i>				1		1(2)		
<i>Astragalus miser var. oblongifolius</i>			6(1)					
<i>Balsamorhiza sagittata</i>	1	1					4	
<i>Calochortus nuttallii</i>					P			
<i>Castilleja chromosa</i>								
<i>Cirsium sp.</i>		1		1		P		
<i>Crepis occidentalis</i>					P			
<i>Delphinium nuttallianum</i>							P	
<i>Erigeron engelmannii</i>								
<i>Erigeron speciosus</i>	1	P		P	1	P		
<i>Eriogonum umbellatum</i>				4(2)		1(1)		1(2)
<i>Geranium richardsonii</i>						P		
<i>Helianthella uniflora</i>			2				1	
<i>Helioomeris multiflora</i>	1(1)			P	5(1)	P		
<i>Lathyrus leucanthus</i>	(1)	8		(1)	(1)	(1)	2	
<i>Linum lewisii</i>							1	
<i>Lithospermum ruderales</i>							P	P
<i>Lomatium sp.</i>							P	
<i>Lupinus argenteus</i>	P	2	2	2	10(2)	1	8(3)	2
<i>Microseris nutans</i>								
<i>Perideridia gairdneri ssp. borealis</i>	2			1	1	1	P	
<i>Phlox longifolia</i>		2	2				P	1
<i>Pseudostellaria jamesiana</i>	3	1(4)		P	6	P	1(1)	6(2)
<i>Senecio integerrimus</i>							P	
<i>Symphyotrichum ascendens</i>								
<i>Urtica gracilis ssp. gracilis</i>								
<i>Valeriana edulis</i>					P			
<i>Vicia americana</i>	2	2		P	P	P	P	

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---							
	10	11	12	13	14	15	16	17
NATIVE PERENNIAL FORBS (Cont'd)								
<i>Wyethia amplexicaulis</i>								
TOTAL NATIVE PERENNIAL FORBS	10(6)	19(5)	15(4)	18(4)	24(4)	4(7)	18(8)	15(4)
INTRODUCED PERENNIAL FORBS								
<i>Medicago sativa</i>				P				
TOTAL INTRODUCED PERENNIAL FORBS				P				
NATIVE PERENNIAL GRASSES (c)								
<i>Achnatherum lettermanii</i>								
<i>Bromelica bulbosa</i>	1	(1)	6	P		(1)		
<i>Bromopsis porteri</i>								
<i>Bromus carinatus</i> var. <i>marginatus</i>		3(1)		1	8(3)	1(1)	P	
<i>Carex geyeri</i>	2(5)			2(1)	1	P		
<i>Carex</i> sp.								
<i>Elymus elymoides</i>			1				1	
<i>Elymus glaucus</i>	1				1	3(2)		
<i>Elymus lanceolatus</i> sp. <i>lanceolatus</i>								
<i>Elymus trachycaulus</i>	1(1)	(1)			1	2		
<i>Hesperostipa comata</i>								7(2)
<i>Koeleria macrantha</i>							P	
<i>Nassella viridula</i>								
<i>Pascopyrum smithii</i>			2		P	(1)	2(1)	2
<i>Poa pratensis</i> ssp. <i>agassizensis</i>	4(4)		1(1)	(4)	1	1(2)	P	P
<i>Poa secunda</i>			3				(1)	(1)
<i>Pseudoroegneria spicata</i> ssp. <i>spicata</i>		1	11(1)	2		2	8(3)	9(2)
TOTAL NATIVE PERENNIAL GRASSES (c)	9(10)	4(3)	24(2)	5(5)	12(3)	9(7)	11(5)	18(5)
INTRODUCED PERENNIAL GRASSES (c)								
<i>Bromopsis inermis</i>	1							
<i>Dactylis glomerata</i>								
<i>Festuca ovina</i>								2
<i>Phleum pratense</i>								
<i>Poa pratensis</i> ssp. <i>pratensis</i>								
<i>Thinopyrum intermedium</i>				(1)	P			3
TOTAL INTRODUCED PERENNIAL GRASSES (c)	1			(1)	P			5
NATIVE SHRUBS								
<i>Amelanchier alnifolia</i>	1	2		1		1	P	1
<i>Artemisia cana</i>								
<i>Artemisia tridentata</i>	8(1)	20(1)	21(1)	20	10	13(4)	19(2)	18
<i>Chrysothamnus viscidiflorus</i>	2	1	6	1	1	1	9	
<i>Ericameria nauseosa</i>								
<i>Mahonia repens</i>	1							P
<i>Padus virginiana</i> ssp. <i>melanocarpa</i>				P				
<i>Purshia tridentata</i>								1(1)
<i>Quercus gambelii</i>		1						
<i>Rosa woodsii</i>								
<i>Symphoricarpos rotundifolius</i>	48(4)	27(4)	1	38(4)	31(2)	43(3)	1	1(1)
TOTAL NATIVE SHRUBS	60(5)	51(5)	28(1)	60(4)	42(2)	58(7)	29(2)	21(2)

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

**Table B-4. Cover Data - Sagebrush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2023**

PLANT SPECIES	Percent Foliar Cover							
	---Sample Number---							
	10	11	12	13	14	15	16	17
Standing Dead	2	4	2	4	3	2	9	1
Litter	9	14	20	8	5	17	21	16
Bare Ground (Soil)	7	8	6	4	13	8	2	6
Rock							1	2
TOTALS	100(21)	100(13)	100(9)	100(16)	100(10)	100(23)	100(18)	100(16)
TOTAL VEGETATION COVER	82(21)	74(13)	72(9)	84(16)	79(10)	73(23)	67(18)	75(16)
<i>Standard Deviation</i>								
GROUND COVER (Litter+Rock+Veg+St.Dead)	93(21)	92(13)	94(9)	96(16)	87(10)	92(23)	98(18)	94(16)
<i>Standard Deviation</i>								
SPECIES DENSITY (# of species/100 sq.m.)	22	20	17	30	26	32	32	29
<i>Standard Deviation</i>								

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

**Table B-5. Cover Data - Steep Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2023**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE ANNUAL AND BIENNIAL FORBS					
<i>Chaenactis douglasii</i>	0.00	0.00	0.00	0.00	6.67
<i>Collomia linearis</i>	0.13	0.24	0.13	0.22	33.33
<i>Descurainia pinnata</i>	0.00	0.00	0.00	0.00	6.67
<i>Polygonum douglasii</i>	0.07	0.12	0.07	0.11	13.33
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	0.2	0.4	0.2	0.3	46.7
INTRODUCED ANNUAL AND BIENNIAL FORBS					
<i>Alyssum alyssoides</i>	0.07	0.12	0.07	0.11	6.67
<i>Alyssum parviflorum</i>	3.27	5.94	3.87	6.42	66.67
<i>Camelina microcarpa</i>	0.20	0.36	0.20	0.33	6.67
<i>Lactuca serriola</i>	0.07	0.12	0.07	0.11	13.33
<i>Pocilla biloba</i>	0.67	1.21	0.73	1.22	26.67
<i>Sisymbrium altissimum</i>	0.27	0.48	0.27	0.44	20.00
<i>Tragopogon dubius ssp. major</i>	0.00	0.00	0.00	0.00	13.33
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	4.5	8.2	5.2	8.6	80.0
INTRODUCED ANNUAL GRASSES					
<i>Bromus arvensis</i>	5.67	10.30	6.33	10.51	100.00
<i>Bromus tectorum</i>	0.67	1.21	0.80	1.33	26.67
TOTAL INTRODUCED ANNUAL GRASSES	6.3	11.5	7.1	11.8	100.0
NATIVE PERENNIAL FORBS					
<i>Achillea millefolium</i>	0.13	0.24	0.13	0.22	13.33
<i>Agoseris glauca</i>	0.00	0.00	0.00	0.00	20.00
<i>Allium textile</i>	0.13	0.24	0.13	0.22	26.67
<i>Antennaria parvifolia</i>	0.00	0.00	0.00	0.00	6.67
<i>Artemisia ludoviciana</i>	0.07	0.12	0.07	0.11	13.33
<i>Astragalus miser var. oblongifolius</i>	0.07	0.12	0.07	0.11	6.67
<i>Astragalus purshii</i>	0.07	0.12	0.07	0.11	6.67
<i>Balsamorhiza sagittata</i>	1.87	3.39	2.13	3.54	60.00
<i>Castilleja sp.</i>	0.00	0.00	0.00	0.00	6.67
<i>Cirsium sp.</i>	0.07	0.12	0.07	0.11	6.67
<i>Comandra umbellata ssp. pallida</i>	0.20	0.36	0.33	0.55	20.00
<i>Crepis occidentalis</i>	0.20	0.36	0.20	0.33	26.67
<i>Erigeron engelmannii</i>	0.07	0.12	0.07	0.11	6.67
<i>Erigeron speciosus</i>	0.13	0.24	0.13	0.22	13.33
<i>Gayophytum diffusum ssp. parviflorum</i>	0.07	0.12	0.07	0.11	13.33
<i>Helianthella uniflora</i>	0.07	0.12	0.07	0.11	13.33
<i>Helimeris multiflora</i>	0.07	0.12	0.07	0.11	13.33
<i>Lathyrus leucanthus</i>	0.00	0.00	0.00	0.00	6.67
<i>Linum lewisii</i>	0.13	0.24	0.13	0.22	26.67
<i>Lithospermum ruderales</i>	0.07	0.12	0.07	0.11	6.67
<i>Lupinus argenteus</i>	0.47	0.85	0.47	0.77	53.33
<i>Machaeranthera canescens</i>	0.00	0.00	0.00	0.00	33.33
<i>Packera multilobata</i>	0.20	0.36	0.20	0.33	13.33
<i>Penstemon sp.</i>	0.00	0.00	0.00	0.00	13.33
<i>Perideridia gairdneri ssp. borealis</i>	0.07	0.12	0.07	0.11	6.67
<i>Phlox longifolia</i>	0.27	0.48	0.33	0.55	40.00
<i>Pseudostellaria jamesiana</i>	0.13	0.24	0.13	0.22	13.33
<i>Senecio integerrimus</i>	0.07	0.12	0.07	0.11	13.33
<i>Stenotus armerioides</i>	0.13	0.24	0.27	0.44	13.33
<i>Vicia americana</i>	0.00	0.00	0.00	0.00	6.67
TOTAL NATIVE PERENNIAL FORBS	4.7	8.6	5.3	8.8	100.0
INTRODUCED PERENNIAL FORBS					
<i>Arabis sp.</i>	0.00	0.00	0.00	0.00	6.67
TOTAL INTRODUCED PERENNIAL FORBS	0.0	0.0	0.0	0.0	6.7

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

**Table B-5. Cover Data - Steep Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2023**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
NATIVE PERENNIAL GRASSES (c)					
<i>Achnatherum hymenoides</i>	1.53	2.79	1.60	2.65	40.00
<i>Bromus carinatus</i> var. <i>marginatus</i>	0.07	0.12	0.07	0.11	6.67
<i>Carex geyeri</i>	0.13	0.24	0.20	0.33	13.33
<i>Elymus elymoides</i>	0.07	0.12	0.07	0.11	13.33
<i>Elymus lanceolatus</i> sp. <i>lanceolatus</i>	0.13	0.24	0.13	0.22	6.67
<i>Elymus lanceolatus</i> fm. <i>albicans</i>	0.33	0.61	0.33	0.55	20.00
<i>Hesperostipa comata</i>	0.80	1.45	0.87	1.44	6.67
<i>Koeleria macrantha</i>	0.20	0.36	0.20	0.33	13.33
<i>Nassella viridula</i>	0.00	0.00	0.00	0.00	6.67
<i>Pascopyrum smithii</i>	0.47	0.85	0.47	0.77	20.00
<i>Poa pratensis</i> ssp. <i>agassizensis</i>	0.27	0.48	0.33	0.55	33.33
<i>Poa secunda</i>	0.53	0.97	0.53	0.88	53.33
<i>Poa secunda</i> ssp. <i>juncifolia</i>	1.07	1.94	1.20	1.99	46.67
<i>Pseudoroegneria spicata</i> ssp. <i>spicata</i>	10.93	19.88	12.53	20.80	100.00
TOTAL NATIVE PERENNIAL GRASSES (c)	16.5	30.1	18.5	30.8	100.0
INTRODUCED PERENNIAL GRASSES (c)					
<i>Festuca ovina</i>	0.13	0.24	0.13	0.22	13.33
<i>Thinopyrum intermedium</i>	0.47	0.85	0.47	0.77	26.67
TOTAL INTRODUCED PERENNIAL GRASSES (c)	0.6	1.1	0.6	1.0	40.0
NATIVE SUB-SHRUBS					
<i>Gutierrezia sarothrae</i>	0.40	0.73	0.40	0.66	20.00
TOTAL NATIVE SUB-SHRUBS	0.4	0.7	0.4	0.7	20.0
NATIVE SHRUBS					
<i>Amelanchier alnifolia</i>	2.47	4.48	2.80	4.65	93.33
<i>Artemisia arbuscula</i> ssp. <i>longiloba</i>	0.07	0.12	0.07	0.11	6.67
<i>Artemisia tridentata</i>	8.60	15.64	8.87	14.71	100.00
<i>Atriplex canescens</i>	1.00	1.82	1.00	1.66	6.67
<i>Cercocarpus montanus</i>	1.13	2.06	1.20	1.99	46.67
<i>Chrysothamnus viscidiflorus</i>	1.07	1.94	1.13	1.88	73.33
<i>Mahonia repens</i>	0.00	0.00	0.00	0.00	13.33
<i>Purshia tridentata</i>	2.20	4.00	2.40	3.98	46.67
<i>Quercus gambelii</i>	3.20	5.82	3.20	5.31	46.67
<i>Symphoricarpos rotundifolius</i>	1.93	3.52	2.20	3.65	60.00
TOTAL NATIVE SHRUBS	21.7	39.4	22.9	37.9	100.0
Standing Dead	1.67		1.67		
Litter	14.93		14.93		
Bare Ground (Soil)	19.87		19.87		
Rock	8.53		8.53		
TOTALS	100		105		
TOTAL VEGETATION COVER	55.0		60.3		
Standard Deviation	9.936		11.732		
GROUND COVER (Litter+Rock+Veg+St.Dead)	80.1		85.4		
Standard Deviation	7.567		9.349		
SPECIES DENSITY (# of species/100 sq.m.)	18.2				
Standard Deviation	4.799				

^a First Hit Cover = Absolute percent cover in vertical view with no account of plants obscured by first (i.e. top) hit.

^b First Hit Relative Cover = Percent of the First Hit vegetation cover comprised of this species or lifeform

^c All Hit Cover = Absolute percent cover in vertical view accounting for all cover by the species or lifeform, whether over-arched by other plants or not

^d All Hit Relative Cover = Percent of the All Hit vegetation cover comprised of the species or lifeform

^e Frequency = Percent of the samples in which a species or lifeform occurred

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE ANNUAL AND BIENNIAL FORBS									
<i>Chaenactis douglasii</i>				P					
<i>Collomia linearis</i>								1	
<i>Descurainia pinnata</i>									
<i>Polygonum douglasii</i>									
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS				P				1	
INTRODUCED ANNUAL AND BIENNIAL FORBS									
<i>Alyssum alyssoides</i>									
<i>Alyssum parviflorum</i>	21(5)	1		2		9(1)		2	
<i>Camelina microcarpa</i>									3
<i>Lactuca serriola</i>									
<i>Pocilla biloba</i>				1				5(1)	
<i>Sisymbrium altissimum</i>								2	1
<i>Tragopogon dubius ssp. major</i>		P							
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	21(5)	1		3		9(1)		9(1)	4
INTRODUCED ANNUAL GRASSES									
<i>Bromus arvensis</i>	10	5(1)	1(2)	3	7	7	4	11(1)	7(2)
<i>Bromus tectorum</i>	6(2)							0	1
TOTAL INTRODUCED ANNUAL GRASSES	16(2)	5(1)	1(2)	3	7	7	4	11(1)	8(2)
NATIVE PERENNIAL FORBS									
<i>Achillea millefolium</i>									
<i>Agoseris glauca</i>	P					P			
<i>Allium textile</i>		P		P					
<i>Antennaria parvifolia</i>				P					
<i>Artemisia ludoviciana</i>				P	1				
<i>Astragalus miser var. oblongifolius</i>									
<i>Astragalus purshii</i>		1							
<i>Balsamorhiza sagittata</i>	1	3		(1)		2		3	1
<i>Castilleja sp.</i>					P				
<i>Cirsium sp.</i>									1
<i>Comandra umbellata ssp. pallida</i>			P	(1)	3(1)				
<i>Crepis occidentalis</i>					2		1		
<i>Erigeron engelmannii</i>		1							
<i>Erigeron speciosus</i>									
<i>Gayophytum diffusum ssp. parviflorum</i>									
<i>Helianthella uniflora</i>				P					
<i>Heliomeris multiflora</i>									
<i>Lathyrus leucanthus</i>									
<i>Linum lewisii</i>					P	P			
<i>Lithospermum rudemale</i>				1					
<i>Lupinus argenteus</i>	P	1	2	P					
<i>Machaeranthera canescens</i>		P			P	P			
<i>Packera multilobata</i>				1				2	
<i>Penstemon sp.</i>				P			P		
<i>Perideridia gairdneri ssp. borealis</i>								1	
<i>Phlox longifolia</i>				(1)				1	
<i>Pseudostellaria jamesiana</i>									
<i>Senecio integerrimus</i>		1							
<i>Stenotus armerioides</i>					1(1)		1(1)		
<i>Vicia americana</i>				P					
TOTAL NATIVE PERENNIAL FORBS	1	7	2	2(3)	7(2)	2	2(1)	7	2
INTRODUCED PERENNIAL FORBS									
<i>Arabis sp.</i>									
TOTAL INTRODUCED PERENNIAL FORBS									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

**Table B-5. Cover Data - Steep Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2023**

PLANT SPECIES	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
NATIVE PERENNIAL GRASSES (c)									
<i>Achnatherum hymenoides</i>	5	1			P	6			
<i>Bromus carinatus</i> var. <i>marginatus</i>									
<i>Carex geyseri</i>						P			
<i>Elymus elymoides</i>			P						
<i>Elymus lanceolatus</i> sp. <i>lanceolatus</i>									
<i>Elymus lanceolatus</i> fm. <i>albicans</i>									
<i>Hesperostipa comata</i>				12(1)					
<i>Koeleria macrantha</i>									
<i>Nassella viridula</i>									
<i>Pascopyrum smithii</i>			3	P				4	
<i>Poa pratensis</i> ssp. <i>agassizensis</i>				P					
<i>Poa secunda</i>	P		2	2	1		2		1
<i>Poa secunda</i> ssp. <i>juncifolia</i>		1(1)	1	4(1)	4			3	1
<i>Pseudoroegneria spicata</i> ssp. <i>spicata</i>	3	9(7)	11	26	7(1)	6	20(4)	20(1)	8(2)
TOTAL NATIVE PERENNIAL GRASSES (c)	8	11(8)	17	44(2)	12(1)	12	22(4)	27(1)	10(2)
INTRODUCED PERENNIAL GRASSES (c)									
<i>Festuca ovina</i>	P	2							
<i>Thinopyrum intermedium</i>			P	P	2				
TOTAL INTRODUCED PERENNIAL GRASSES (c)	P	2	P	P	2				
NATIVE SUB-SHRUBS									
<i>Gutierrezia sarothrae</i>					3		2		
TOTAL NATIVE SUB-SHRUBS					3		2		
NATIVE SHRUBS									
<i>Amelanchier alnifolia</i>	P	2		P	3(3)	6	2	1	2
<i>Artemisia arbuscula</i> ssp. <i>longiloba</i>	1								
<i>Artemisia tridentata</i>	5	14	19(1)	1	7	5(1)	8	9(1)	19
<i>Atriplex canescens</i>	15								
<i>Cercocarpus montanus</i>	3	1(1)				4			
<i>Chrysothamnus viscidiflorus</i>	2			2	1	P	2		3(1)
<i>Mahonia repens</i>		P		P					
<i>Purshia tridentata</i>		1	P	15(3)	4		8		4
<i>Quercus gambelii</i>		12							
<i>Symphoricarpos rotundifolius</i>		1		1					3
TOTAL NATIVE SHRUBS	26	31(1)	19(1)	19(3)	15(3)	15(1)	20	10(1)	31(1)
Standing Dead		2	5	3	1	2	2	1	
Litter	5	14	12	10	14	7	9	14	19
Bare Ground (Soil)	14	12	36	16	21	35	19	16	14
Rock	9	15	8		18	11	20	4	12
TOTALS	100(7)	100(10)	100(3)	100(8)	100(6)	100(2)	100(5)	100(4)	100(5)
TOTAL VEGETATION COVER	72(7)	57(10)	39(3)	71(8)	46(6)	45(2)	50(5)	65(4)	55(5)
Standard Deviation									
GROUND COVER (Litter+Rock+Veg+St.Dead)	86(7)	88(10)	64(3)	84(8)	79(6)	65(2)	81(5)	84(4)	86(5)
Standard Deviation									
SPECIES DENSITY (# of species/100 sq.m.)	16	21	11	28	19	13	11	17	14
Standard Deviation									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

Table B-5. Cover Data - Steep Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL, Routt County, CO - 2023

PLANT SPECIES	Percent Foliar Cover ---Sample Number---					
	10	11	12	13	14	15
NATIVE ANNUAL AND BIENNIAL FORBS						
<i>Chaenactis douglasii</i>						
<i>Collomia linearis</i>			1	P	P	P
<i>Descurainia pinnata</i>	P					
<i>Polygonum douglasii</i>					1	P
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	P		1	P	1	P
INTRODUCED ANNUAL AND BIENNIAL FORBS						
<i>Alyssum alyssoides</i>		1				
<i>Alyssum parviflorum</i>	6(3)	P		3	3	2
<i>Camelina microcarpa</i>						
<i>Lactuca serriola</i>			1	P		
<i>Pocilla biloba</i>					3	1
<i>Sisymbrium altissimum</i>			1			
<i>Tragopogon dubius ssp. major</i>	P					
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	6(3)	1	2	3	6	3
INTRODUCED ANNUAL GRASSES						
<i>Bromus arvensis</i>	8(1)	3	6(1)	7(2)	2	4
<i>Bromus tectorum</i>	3					
TOTAL INTRODUCED ANNUAL GRASSES	11(1)	3	6(1)	7(2)	2	4
NATIVE PERENNIAL FORBS						
<i>Achillea millefolium</i>					2	P
<i>Agoseris glauca</i>				P		
<i>Allium textile</i>					2	P
<i>Antennaria parvifolia</i>						
<i>Artemisia ludoviciana</i>						
<i>Astragalus miser var. oblongifolius</i>						1
<i>Astragalus purshii</i>						
<i>Balsamorhiza sagittata</i>	10(2)	7(1)	1			
<i>Castilleja sp.</i>						
<i>Cirsium sp.</i>						
<i>Comandra umbellata ssp. pallida</i>						
<i>Crepis occidentalis</i>	P	P				
<i>Erigeron engelmannii</i>						
<i>Erigeron speciosus</i>					2	P
<i>Gayophytum diffusum ssp. parviflorum</i>		P	1			
<i>Helianthella uniflora</i>					1	
<i>Helioeris multiflora</i>				P		1
<i>Lathyrus leucanthus</i>				P		
<i>Linum lewisii</i>	2	P				
<i>Lithospermum ruderae</i>						
<i>Lupinus argenteus</i>		P		2	1	1
<i>Machaeranthera canescens</i>	P					P
<i>Packera multilobata</i>						
<i>Penstemon sp.</i>						
<i>Perideridia gairdneri ssp. borealis</i>						
<i>Phlox longifolia</i>			1	1	1	P
<i>Pseudostellaria jamesiana</i>					1	1
<i>Senecio integerrimus</i>				P		
<i>Stenotus armerioides</i>						
<i>Vicia americana</i>						
TOTAL NATIVE PERENNIAL FORBS	12(2)	7(1)	3	3	10	4
INTRODUCED PERENNIAL FORBS						
<i>Arabis sp.</i>		P				
TOTAL INTRODUCED PERENNIAL FORBS		P				

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

Table B-5. Cover Data - Steep Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL, Routt County, CO - 2023

PLANT SPECIES	Percent Foliar Cover ---Sample Number---					
	10	11	12	13	14	15
NATIVE PERENNIAL GRASSES (c)						
<i>Achnatherum hymenoides</i>	5	6(1)				
<i>Bromus carinatus</i> var. <i>marginatus</i>						1
<i>Carex geyeri</i>		2(1)				
<i>Elymus elymoides</i>			1			
<i>Elymus lanceolatus</i> sp. <i>lanceolatus</i>					2	
<i>Elymus lanceolatus</i> fm. <i>albicans</i>				1	1	3
<i>Hesperostipa comata</i>						
<i>Koeleria macrantha</i>				P		3
<i>Nassella viridula</i>					P	
<i>Pascopyrum smithii</i>						
<i>Poa pratensis</i> ssp. <i>agassizensis</i>	1	P			2(1)	1
<i>Poa secunda</i>	P	P				
<i>Poa secunda</i> ssp. <i>juncifolia</i>			2			
<i>Pseudoroegneria spicata</i> ssp. <i>spicata</i>	9(2)	13(1)	19(2)	8(1)	2(2)	3(1)
TOTAL NATIVE PERENNIAL GRASSES (c)	15(2)	21(3)	22(2)	9(1)	7(3)	11(1)
INTRODUCED PERENNIAL GRASSES (c)						
<i>Festuca ovina</i>						
<i>Thinopyrum intermedium</i>			5			
TOTAL INTRODUCED PERENNIAL GRASSES (c)			5			
NATIVE SUB-SHRUBS						
<i>Gutierrezia sarothrae</i>			1			
TOTAL NATIVE SUB-SHRUBS			1			
NATIVE SHRUBS						
<i>Amelanchier alnifolia</i>	1(1)	3(1)	2	6	4	5
<i>Artemisia arbuscula</i> ssp. <i>longiloba</i>						
<i>Artemisia tridentata</i>	6	2	10	11	6	7(1)
<i>Atriplex canescens</i>						
<i>Cercocarpus montanus</i>	4	2		2	1	
<i>Chrysothamnus viscidiflorus</i>	P	1	2		2	1
<i>Mahonia repens</i>						
<i>Purshia tridentata</i>			1			
<i>Quercus gambelii</i>	5	21	P	2	6	2
<i>Symphoricarpos rotundifolius</i>	P	2(3)	(1)	3	11	8
TOTAL NATIVE SHRUBS	16(1)	31(4)	15(1)	24	30	23(1)
Standing Dead	1		3	3	2	
Litter	16	19	16	12	21	36
Bare Ground (Soil)	18	15	17	30	17	18
Rock	5	3	9	9	4	1
TOTALS	100(9)	100(8)	100(4)	100(3)	100(3)	100(2)
TOTAL VEGETATION COVER	60(9)	63(8)	55(4)	46(3)	56(3)	45(2)
Standard Deviation						
GROUND COVER (Litter+Rock+Veg+St.Dead)	82(9)	85(8)	83(4)	70(3)	83(3)	82(2)
Standard Deviation						
SPECIES DENSITY (# of species/100 sq.m.)	20	20	18	18	23	24
Standard Deviation						

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

**Table B-6. Cover Data - Western Wheat ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2023**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
SPENAME					
<i>Collomia linearis</i>	0.44	0.70	0.50	0.74	43.75
<i>Descurainia pinnata</i>	0.00	0.00	0.00	0.00	6.25
<i>Epilobium brachycarpum</i>	2.00	3.20	2.19	3.23	37.50
<i>Grindelia squarrosa</i>	0.69	1.10	0.75	1.11	50.00
<i>Microsteris gracilis ssp. humilis</i>	1.44	2.30	1.69	2.50	18.75
<i>Polygonum douglasii</i>	0.06	0.10	0.06	0.09	6.25
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	4.6	7.4	5.2	7.7	87.5
<i>Alyssum alyssoides</i>	0.19	0.30	0.25	0.37	12.50
<i>Alyssum desertorum</i>	0.06	0.10	0.06	0.09	12.50
<i>Cynoglossum officinale</i>	0.00	0.00	0.00	0.00	6.25
<i>Lactuca serriola</i>	2.13	3.40	2.19	3.23	87.50
<i>Lepidium perfoliatum</i>	0.00	0.00	0.06	0.09	6.25
<i>Madia glomerata</i>	0.06	0.10	0.06	0.09	6.25
<i>Pocilla biloba</i>	1.13	1.80	1.31	1.94	62.50
<i>Scorzonera laciniata</i>	0.00	0.00	0.13	0.18	37.50
<i>Sisymbrium altissimum</i>	0.06	0.10	0.06	0.09	12.50
<i>Thlaspi arvense</i>	0.31	0.50	0.31	0.46	12.50
<i>Tragopogon dubius ssp. major</i>	0.13	0.20	0.13	0.18	62.50
<i>Turritis glabra</i>	0.00	0.00	0.00	0.00	12.50
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	4.1	6.5	4.6	6.7	100.0
<i>Bromus arvensis</i>	6.75	10.81	7.56	11.18	75.00
TOTAL INTRODUCED ANNUAL GRASSES	6.8	10.8	7.6	11.2	75.0
<i>Achillea millefolium</i>	0.31	0.50	0.44	0.65	25.00
<i>Agoseris glauca</i>	0.69	1.10	0.69	1.02	43.75
<i>Allium textile</i>	0.56	0.90	0.69	1.02	100.00
<i>Aquilegia sp.</i>	0.00	0.00	0.00	0.00	6.25
<i>Astragalus bisulcatus</i>	0.00	0.00	0.00	0.00	6.25
<i>Astragalus miser var. oblongifolius</i>	3.69	5.91	4.00	5.91	81.25
<i>Balsamorhiza sagittata</i>	1.75	2.80	2.00	2.96	75.00
<i>Calochortus nuttallii</i>	0.00	0.00	0.00	0.00	6.25
<i>Cirsium eatonii</i>	0.13	0.20	0.19	0.28	18.75
<i>Cirsium sp.</i>	0.50	0.80	0.56	0.83	50.00
<i>Crepis occidentalis</i>	0.00	0.00	0.00	0.00	18.75
<i>Eriogonum umbellatum</i>	0.00	0.00	0.00	0.00	6.25
<i>Gayophytum diffusum ssp. parviflorum</i>	1.00	1.60	1.06	1.57	31.25
<i>Helianthella uniflora</i>	1.69	2.70	1.75	2.59	68.75
<i>Linum lewisii</i>	0.06	0.10	0.06	0.09	6.25
<i>Lotus corniculatus</i>	0.06	0.10	0.06	0.09	12.50
<i>Machaeranthera canescens</i>	0.00	0.00	0.00	0.00	12.50
<i>Microseris nutans</i>	0.19	0.30	0.19	0.28	12.50
<i>Penstemon sp.</i>	0.06	0.10	0.06	0.09	12.50
<i>Perideridia gairdneri ssp. borealis</i>	0.19	0.30	0.25	0.37	25.00
<i>Phlox longifolia</i>	1.06	1.70	1.13	1.66	75.00
<i>Pseudostellaria jamesiana</i>	0.06	0.10	0.06	0.09	6.25
<i>Stenotus armerioides</i>	0.25	0.40	0.25	0.37	6.25
<i>Symphyotrichum ascendens</i>	2.06	3.30	2.13	3.14	62.50
<i>Wyethia amplexicaulis</i>	0.00	0.00	0.00	0.00	25.00
TOTAL NATIVE PERENNIAL FORBS	14.3	22.9	15.6	23.0	100.0
<i>Arabis sp.</i>	0.00	0.00	0.00	0.00	18.75
<i>Astragalus cicer</i>	0.13	0.20	0.13	0.18	6.25
<i>Medicago sativa</i>	0.06	0.10	0.06	0.09	6.25
TOTAL INTRODUCED PERENNIAL FORBS	0.2	0.3	0.2	0.3	31.3

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

**Table B-6. Cover Data - Western Wheat ERA, Phase III Bond Release Evaluation, Seneca 2W, SPL,
Routt County, CO - 2023**

PLANT SPECIES	AVERAGE COVER ^a (%)	FIRST HIT RELATIVE VEGETATION COVER ^b (%)	AVERAGE COVER-ALL ^c (%)	ALL HIT RELATIVE VEGETATION COVER ^d (%)	FREQUENCY ^e (%)
<i>Achnatherum lettermanii</i>	1.38	2.20	1.38	2.03	43.75
<i>Bromelica bulbosa</i>	1.25	2.00	1.25	1.85	31.25
<i>Elymus elymoides</i>	0.06	0.10	0.06	0.09	25.00
<i>Elymus trachycaulus</i>	0.94	1.50	1.13	1.66	6.25
<i>Koeleria macrantha</i>	2.88	4.60	3.00	4.44	93.75
<i>Nassella viridula</i>	0.13	0.20	0.13	0.18	18.75
<i>Pascopyrum smithii</i>	14.00	22.42	14.63	21.63	100.00
<i>Poa pratensis ssp. agassizensis</i>	1.19	1.90	1.25	1.85	50.00
<i>Poa secunda</i>	3.19	5.11	3.44	5.08	81.25
<i>Pseudoroegneria spicata ssp. spicata</i>	0.69	1.10	0.69	1.02	18.75
TOTAL NATIVE PERENNIAL GRASSES (c)	25.7	41.1	26.9	39.8	100.0
<i>Agropyron cristatum</i>	0.06	0.10	0.06	0.09	12.50
<i>Bromopsis inermis</i>	0.75	1.20	0.75	1.11	12.50
<i>Festuca ovina</i>	0.38	0.60	0.38	0.55	12.50
<i>Phleum pratense</i>	0.00	0.00	0.00	0.00	12.50
<i>Thinopyrum intermedium</i>	0.25	0.40	0.25	0.37	18.75
TOTAL INTRODUCED PERENNIAL GRASSES (c)	1.4	2.3	1.4	2.1	50.0
<i>Amelanchier alnifolia</i>	0.88	1.40	1.00	1.48	37.50
<i>Artemisia arbuscula ssp. longiloba</i>	0.19	0.30	0.19	0.28	25.00
<i>Artemisia tridentata</i>	3.63	5.81	4.25	6.28	93.75
<i>Chrysothamnus viscidiflorus</i>	0.00	0.00	0.00	0.00	6.25
<i>Symphoricarpos rotundifolius</i>	0.69	1.10	0.75	1.11	31.25
TOTAL NATIVE SHRUBS	5.4	8.6	6.2	9.1	93.8
<i>Opuntia polyacantha</i>	0.00	0.00	0.00	0.00	18.75
TOTAL NATIVE SUCCULENTS	0.0	0.0	0.0	0.0	18.8
Standing Dead	0.75		0.75		
Litter	22.44		22.44		
Bare Ground (Soil)	14.19		14.19		
Rock	0.19		0.19		
TOTALS	100		105		
TOTAL VEGETATION COVER	62.4		67.6		
Standard Deviation	12.231		14.926		
GROUND COVER (Litter+Rock+Veg+St.Dead)	85.8		91.0		
Standard Deviation	11.467		14.029		
SPECIES DENSITY (# of species/100 sq.m.)	21.4				
Standard Deviation	4.732				

^a First Hit Cover = Absolute percent cover in vertical view with no account of plants obscured by first (i.e. top) hit.

^b First Hit Relative Cover = Percent of the First Hit vegetation cover comprised of this species or lifeform

^c All Hit Cover = Absolute percent cover in vertical view accounting for all cover by the species or lifeform, whether over-arched by other plants or not

^d All Hit Relative Cover = Percent of the All Hit vegetation cover comprised of the species or lifeform

^e Frequency = Percent of the samples in which a species or lifeform occurred

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES

SPENAME	Percent Foliar Cover ---Sample Number---								
	01	02	03	04	05	06	07	08	09
<i>Collomia linearis</i>			(1)	1				2	
<i>Descurainia pinnata</i>									
<i>Epilobium brachycarpum</i>	1	9(1)	11					P	
<i>Grindelia squarrosa</i>			5		P		P		
<i>Microsteris gracilis ssp. humilis</i>		11(4)							
<i>Polygonum douglasii</i>			1						
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	1	20(5)	17(1)	1	P		P	2	
<i>Alyssum alyssoides</i>							1		
<i>Alyssum desertorum</i>						P			
<i>Cynoglossum officinale</i>	P								
<i>Lactuca serriola</i>	5	7	6	1	P		P	1	3
<i>Lepidium perfoliatum</i>									
<i>Madia glomerata</i>									
<i>Pocilla biloba</i>	3			1(1)	3	3(1)	1		P
<i>Scorzonera laciniata</i>		(1)	(1)					P	
<i>Sisymbrium altissimum</i>				P					
<i>Thlaspi arvense</i>				1					
<i>Tragopogon dubius ssp. major</i>	P	P	P	P				P	
<i>Turritis glabra</i>									P
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	8	7(1)	6(1)	3(1)	3	3(1)	2	1	3
<i>Bromus arvensis</i>	P		1	11(2)	10(1)	14	8	11(4)	
TOTAL INTRODUCED ANNUAL GRASSES	P		1	11(2)	10(1)	14	8	11(4)	
<i>Achillea millefolium</i>	(1)	P							4(1)
<i>Agoseris glauca</i>				1			3		
<i>Allium textile</i>	P	P	P	P	P	P	3	P	2(2)
<i>Aquilegia sp.</i>					P				
<i>Astragalus bisulcatus</i>						P			
<i>Astragalus miser var. oblongifolius</i>		1	P	1			5(1)	2	5(1)
<i>Balsamorhiza sagittata</i>	P	P		5	5	5(1)	1	P	1
<i>Calochortus nuttallii</i>									
<i>Cirsium eatonii</i>				1					
<i>Cirsium sp.</i>		P	P		6	1	P	P	1(1)
<i>Crepis occidentalis</i>	P			P					
<i>Eriogonum umbellatum</i>									
<i>Gayophytum diffusum ssp. parviflorum</i>								P	P
<i>Helianthella uniflora</i>	3		P	1		6		6	5
<i>Linum lewisii</i>									
<i>Lotus corniculatus</i>				P					
<i>Machaeranthera canescens</i>					P	P			
<i>Microseris nutans</i>									
<i>Penstemon sp.</i>				1					
<i>Perideridia gairdneri ssp. borealis</i>	1								P
<i>Phlox longifolia</i>	1		1	1	1	3		2	(1)
<i>Pseudostellaria jamesiana</i>				1					
<i>Stenotus armerioides</i>					4				
<i>Symphyotrichum ascendens</i>	7	P		8			6	4(1)	1
<i>Wyethia amplexicaulis</i>			P					P	P
TOTAL NATIVE PERENNIAL FORBS	12(1)	1	1	20	16	15(1)	18(1)	14(1)	19(6)
<i>Arabis sp.</i>	P		P	P					
<i>Astragalus cicer</i>					2				
<i>Medicago sativa</i>							1		
TOTAL INTRODUCED PERENNIAL FORBS	P		P	P	2		1		

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover								
	---Sample Number---								
	01	02	03	04	05	06	07	08	09
<i>Achnatherum lettermanii</i>	2	P		1			1		16
<i>Bromelica bulbosa</i>	1			9	1				
<i>Elymus elymoides</i>				P	P				1
<i>Elymus trachycaulus</i>									15(3)
<i>Koeleria macrantha</i>	1	P	P	2	8	7(1)	5	3	P
<i>Nassella viridula</i>									
<i>Pascopyrum smithii</i>	23(1)	28(1)	22	5	13(1)	2	18	23(2)	6(3)
<i>Poa pratensis ssp. agassizensis</i>	10(1)	P		P	4				P
<i>Poa secunda</i>		P		5	5	2(2)	2	7	
<i>Pseudoroegneria spicata ssp. spicata</i>					7				
TOTAL NATIVE PERENNIAL GRASSES (c)	37(2)	28(1)	22	22	38(1)	11(3)	26	33(2)	38(6)
<i>Agropyron cristatum</i>				1					
<i>Bromopsis inermis</i>				9			3		
<i>Festuca ovina</i>									
<i>Phleum pratense</i>									
<i>Thinopyrum intermedium</i>				2					
TOTAL INTRODUCED PERENNIAL GRASSES (c)				12			3		
<i>Amelanchier alnifolia</i>				2			7		1
<i>Artemisia arbuscula ssp. longiloba</i>						3			
<i>Artemisia tridentata</i>	2	1	2	10	5(1)	1	6(1)		6(1)
<i>Chrysothamnus viscidiflorus</i>				P					
<i>Symphoricarpos rotundifolius</i>				P	1(1)		P		5
TOTAL NATIVE SHRUBS	2	1	2	12	6(2)	4	13(1)		12(1)
<i>Opuntia polyacantha</i>			P						
TOTAL NATIVE SUCCULENTS			P						
Standing Dead						2		1	5
Litter	30	27	40	17	18	23	15	31	13
Bare Ground (Soil)	10	15	11	1	7	28	14	6	10
Rock		1		1				1	
TOTALS	100(3)	100(7)	100(2)	100(3)	100(4)	100(5)	100(2)	100(7)	100(13)
TOTAL VEGETATION COVER	60(3)	57(7)	49(2)	81(3)	75(4)	47(5)	71(2)	61(7)	72(13)
Standard Deviation									
GROUND COVER (Litter+Rock+Veg+St.Dead)	90(3)	85(7)	89(2)	99(3)	93(4)	72(5)	86(2)	94(7)	90(13)
Standard Deviation									
SPECIES DENSITY (# of species/100 sq.m.)	21	17	19	34	21	15	20	18	23
Standard Deviation									

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---						
	10	11	12	13	14	15	16
SPENAME							
<i>Collomia linearis</i>		1	P	3		P	
<i>Descurainia pinnata</i>		P					
<i>Epilobium brachycarpum</i>		2					9(2)
<i>Grindelia squarrosa</i>	P			4	2(1)	P	P
<i>Microsteris gracilis ssp. humilis</i>	1						11
<i>Polygonum douglasii</i>							
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	1	3	P	7	2(1)	P	20(2)
<i>Alyssum alyssoides</i>	2(1)						
<i>Alyssum desertorum</i>				1			
<i>Cynoglossum officinale</i>							
<i>Lactuca serriola</i>		2	3(1)	P	4	P	2
<i>Lepidium perfoliatum</i>		(1)					
<i>Madia glomerata</i>					1		
<i>Pocilla biloba</i>	1		2	2		2(1)	
<i>Scorzonera laciniata</i>				P		P	P
<i>Sisymbrium altissimum</i>		1					
<i>Thlaspi arvense</i>		4					
<i>Tragopogon dubius ssp. major</i>	P	P	P		1		1
<i>Turritis glabra</i>					P		
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	3(1)	7(1)	5(1)	3	6	2(1)	3
<i>Bromus arvensis</i>	8	10	24(6)	9		2	
TOTAL INTRODUCED ANNUAL GRASSES	8	10	24(6)	9		2	
<i>Achillea millefolium</i>					1		
<i>Agoseris glauca</i>	P	5	1	1		P	
<i>Allium textile</i>	1	P	1	1	P	1	P
<i>Aquilegia sp.</i>							
<i>Astragalus bisulcatus</i>							
<i>Astragalus miser var. oblongifolius</i>	8(1)	1	3	10	7	13(2)	3
<i>Balsamorhiza sagittata</i>	1	5(1)	5(2)				P
<i>Calochortus nuttallii</i>				P			
<i>Cirsium eatonii</i>		P	1(1)				
<i>Cirsium sp.</i>	P						
<i>Crepis occidentalis</i>			P				
<i>Eriogonum umbellatum</i>		P					
<i>Gayophytum diffusum ssp. parviflorum</i>				2(1)	5	9	
<i>Helianthella uniflora</i>	P	1	3(1)		2		P
<i>Linum lewisii</i>	1						
<i>Lotus corniculatus</i>		1					
<i>Machaeranthera canescens</i>							
<i>Microseris nutans</i>					1	2	
<i>Penstemon sp.</i>			P				
<i>Perideridia gairdneri ssp. borealis</i>			(1)		2		
<i>Phlox longifolia</i>	2	5	P	1	P		
<i>Pseudostellaria jamesiana</i>							
<i>Stenotus armerioides</i>							
<i>Symphyotrichum ascendens</i>	3	3	1				P
<i>Wyethia amplexicaulis</i>					P		
TOTAL NATIVE PERENNIAL FORBS	16(1)	21(1)	15(5)	15(1)	18	25(2)	3
<i>Arabis sp.</i>							
<i>Astragalus cicer</i>							
<i>Medicago sativa</i>							
TOTAL INTRODUCED PERENNIAL FORBS							

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.

()=2nd hit (point interception below 1st hit)

PLANT SPECIES	Percent Foliar Cover ---Sample Number---						
	10	11	12	13	14	15	16
<i>Achnatherum lettermanii</i>	P				2		
<i>Bromelica bulbosa</i>		5	4				
<i>Elymus elymoides</i>			P				
<i>Elymus trachycaulus</i>							
<i>Koeleria macrantha</i>	3	7	6(1)	3	1	P	
<i>Nassella viridula</i>		1		P	1		
<i>Pascopyrum smithii</i>	16	2	4(1)	15	5	13(1)	29
<i>Poa pratensis ssp. agassizensis</i>		P	5				P
<i>Poa secunda</i>	7	8	4(1)	P	5	6(1)	P
<i>Pseudoroegneria spicata ssp. spicata</i>				3		1	
TOTAL NATIVE PERENNIAL GRASSES (c)	26	23	23(3)	21	14	20(2)	29
<i>Agropyron cristatum</i>		P					
<i>Bromopsis inermis</i>							
<i>Festuca ovina</i>	6				P		
<i>Phleum pratense</i>				P		P	
<i>Thinopyrum intermedium</i>		1	1				
TOTAL INTRODUCED PERENNIAL GRASSES (c)	6	1	1	P	P	P	
<i>Amelanchier alnifolia</i>	3(1)		1(1)				P
<i>Artemisia arbuscula ssp. longiloba</i>				P	P	P	
<i>Artemisia tridentata</i>	9(1)	3(2)	8(4)	P	1	3	1
<i>Chrysothamnus viscidiflorus</i>							
<i>Symphoricarpos rotundifolius</i>	5						
TOTAL NATIVE SHRUBS	17(2)	3(2)	9(5)	P	1	3	1
<i>Opuntia polyacantha</i>				P		P	
TOTAL NATIVE SUCCULENTS				P		P	
Standing Dead		1	1	2			
Litter	11	29	20	15	20	16	34
Bare Ground (Soil)	12	2	2	28	39	32	10
Rock							
TOTALS	100(4)	100(4)	100(20)	100(1)	100(1)	100(5)	100(2)
TOTAL VEGETATION COVER	77(4)	68(4)	77(20)	55(1)	41(1)	52(5)	56(2)
Standard Deviation							
GROUND COVER (Litter+Rock+Veg+St.Dead)	88(4)	98(4)	98(20)	72(1)	61(1)	68(5)	90(2)
Standard Deviation							
SPECIES DENSITY (# of species/100 sq.m.)	23	28	25	22	22	19	16
Standard Deviation							

*P=Present within 1m. on either side of cover transect, but not quantitatively encountered.
()=2nd hit (point interception below 1st hit)

PLANT SPECIES	AVERAGE PRODUCTION (gms/0.5m ²)	AVERAGE PRODUCTION (lb/acre)	FREQUENCY (%)	Production (gm/0.5 m ²) ---Sample Number---									
				01	02	03	04	05	06	07	08	09	10
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	0.7	13.1	31.3	10.9	1	1.8	T	3.6				2.2	
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	6.4	114.6	71.9	T		1.7		1.3	50.6		T	T	2.1
TOTAL INTRODUCED ANNUAL GRASSES	0.2	2.7	15.6			1.5		3.3				T	T
TOTAL NATIVE PERENNIAL FORBS	2.0	36.5	37.5		1.8	6.1	1						T
TOTAL INTRODUCED PERENNIAL FORBS	4.6	82.0	28.1					6..2	T				
TOTAL NATIVE PERENNIAL GRASSES (c)	14.5	259.0	56.3	7.5	86.6		2	14.4			48.3	30.1	15.3
TOTAL INTRODUCED PERENNIAL GRASSES (c)	63.5	1,133.3	68.8	28.8		36.8	75		54.9	135.9			188.3
TOTAL PRODUCTION	92.0	1,641.2		47.2	89.4	47.9	78.0	22.6	105.5	135.9	48.3	32.3	205.7
Standard Deviation	59.457	1060.947											

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	Production (gm/0.5 m ²)														
	---Sample Number---														
	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	T														
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	1.5	30.3	3	10	T	14.1	14.3		0.6				7.8		45.4
TOTAL INTRODUCED ANNUAL GRASSES	T														
TOTAL NATIVE PERENNIAL FORBS		8.9	26.1		T			1.8			0.4			T	
TOTAL INTRODUCED PERENNIAL FORBS					87.6		7.4	T		2.2		23.2	8.1	T	
TOTAL NATIVE PERENNIAL GRASSES (c)	30.2	26.7	2.8		13.1		22						4.4		8
TOTAL INTRODUCED PERENNIAL GRASSES (c)	46.1	9.7		56.7		27.8		233.3	192.1	99.7	189	151.8	27.9	50	
TOTAL PRODUCTION	77.8	75.6	31.9	66.7	100.7	41.9	43.7	235.1	192.7	101.9	189.4	175.0	48.2	50.0	53.4
Standard Deviation															

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	Production (gm/0.5 m ²)						
	---Sample Number---						
	26	27	28	29	30	31	32
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	0.6				3.3		T
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	1.9		T	14	1.3	4	1.6
TOTAL INTRODUCED ANNUAL GRASSES							
TOTAL NATIVE PERENNIAL FORBS	0.8					18.5	
TOTAL INTRODUCED PERENNIAL FORBS	18.6						
TOTAL NATIVE PERENNIAL GRASSES (c)	28.4	53			27.3		44.4
TOTAL INTRODUCED PERENNIAL GRASSES (c)	125.5		77.2	85.5	3	137.4	
TOTAL PRODUCTION	173.3	55.5	77.2	99.5	34.9	159.9	46.0
<i>Standard Deviation</i>							

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	AVERAGE PRODUCTION (gms/0.5m ²)	AVERAGE PRODUCTION (lb/acre)	FREQUENCY (%)	Production (gm/0.5 m ²) ---Sample Number---									
				01	02	03	04	05	06	07	08	09	10
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	0.5	9.5	34.4		T	T		2	1.2				
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	0.0	0.0	9.4		T								
TOTAL NATIVE PERENNIAL FORBS	23.0	409.7	100.0	11	8.4	21	3	18.9	35	12.8	12.6	36.8	32.1
TOTAL INTRODUCED PERENNIAL FORBS	0.1	1.1	6.3						1.9				
TOTAL NATIVE PERENNIAL GRASSES (c)	4.7	84.1	81.3	8.1	8.8		16.7	3.2			T	2	T
TOTAL INTRODUCED PERENNIAL GRASSES (c)	7.8	138.9	31.3					T		29.7			
TOTAL PRODUCTION	36.0	643.3		19.1	17.2	21.0	19.7	24.1	38.1	42.5	12.6	38.8	32.1
Standard Deviation	16.634	296.809											

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	Production (gm/0.5 m ²)														
	---Sample Number---														
	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	T														
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	T														
TOTAL NATIVE PERENNIAL FORBS	34.1	14.8	21.1	14.4	22.4	7.3	28	70.6	4.8	22.8	11	24.2	2.4	31.2	10.5
TOTAL INTRODUCED PERENNIAL FORBS	T														
TOTAL NATIVE PERENNIAL GRASSES (c)	4.9	T	16.2	0.6	8.4	T		18.8	T	T	20.3	T			T
TOTAL INTRODUCED PERENNIAL GRASSES (c)	8.2														
TOTAL PRODUCTION	39.0	23.0	37.3	15.0	30.8	30.5	28.0	89.4	51.8	22.8	45.7	24.2	43.1	54.8	60.9
Standard Deviation															

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	Production (gm/0.5 m ²)						
	---Sample Number---						
	26	27	28	29	30	31	32
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	2.2 T						
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	T						
TOTAL NATIVE PERENNIAL FORBS	24	30.3	42.8	12.4	51.5	33.3	29.3
TOTAL INTRODUCED PERENNIAL FORBS							
TOTAL NATIVE PERENNIAL GRASSES (c)	2.3	5.7	12.6	8.2	1.8	10.1	2
TOTAL INTRODUCED PERENNIAL GRASSES (c)	23.4						
TOTAL PRODUCTION	26.3	38.2	55.4	20.6	53.3	43.4	54.7
Standard Deviation							

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	AVERAGE PRODUCTION (gms/0.5m ²)	AVERAGE PRODUCTION (lb/acre)	FREQUENCY (%)	Production (gm/0.5 m ²) ---Sample Number---									
				01	02	03	04	05	06	07	08	09	10
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	0.9	16.9	31.3	11.9	0.5		9.8	T	3.9	0.6			
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	0.7	11.7	9.4										
TOTAL INTRODUCED ANNUAL GRASSES	0.0	0.2	15.6	T	0.3		T	T	T				
TOTAL NATIVE PERENNIAL FORBS	10.4	185.4	78.1	T	75.4	4.2	10.9	21	4.3		10.8	0.6	21
TOTAL INTRODUCED PERENNIAL FORBS	0.1	1.4	3.1										
TOTAL NATIVE PERENNIAL GRASSES (c)	12.6	224.7	93.8	6.9	1.5	9.3	3.5	27.9	8.9	6.3	16.2	10.7	20.7
TOTAL INTRODUCED PERENNIAL GRASSES (c)	1.2	21.1	12.5					16.7					
TOTAL PRODUCTION	25.9	461.4		18.8	77.7	13.5	24.2	65.6	17.1	6.9	27.0	11.3	41.7
<i>Standard Deviation</i>	<i>24.209</i>	<i>431.975</i>											

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	Production (gm/0.5 m ²)														
	---Sample Number---														
	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	2.7									0.8					
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS								0.4			20.5		T		
TOTAL INTRODUCED ANNUAL GRASSES															
TOTAL NATIVE PERENNIAL FORBS	2.7	0.8		3.9		3.5			T		2.8		74.7	33.3	55.8
TOTAL INTRODUCED PERENNIAL FORBS							2.6								
TOTAL NATIVE PERENNIAL GRASSES (c)	6.9	15.2	29	6.2	5.4	4.5	7.4		4.2	10.3	18.5		T	12.6	37.1
TOTAL INTRODUCED PERENNIAL GRASSES (c)								10.1					T		
TOTAL PRODUCTION	12.3	16.0	29.0	10.1	5.4	8.0	10.0	10.1	4.6	11.1	21.3	20.5	74.7	45.9	92.9
Standard Deviation															

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	Production (gm/0.5 m ²)						
	---Sample Number---						
	26	27	28	29	30	31	32
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	T			T			
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS							
TOTAL INTRODUCED ANNUAL GRASSES							
TOTAL NATIVE PERENNIAL FORBS	T	0.2	T	T	1.7	4.9	T
TOTAL INTRODUCED PERENNIAL FORBS							
TOTAL NATIVE PERENNIAL GRASSES (c)	3.1	24.2	5.1	2	9.8	22.5	67
TOTAL INTRODUCED PERENNIAL GRASSES (c)	11.1						
TOTAL PRODUCTION	3.1	24.4	5.1	13.1	11.5	27.4	67.0
Standard Deviation							

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	AVERAGE PRODUCTION (gms/0.5m ²)	AVERAGE PRODUCTION (lb/acre)	FREQUENCY (%)	Production (gm/0.5 m ²) ---Sample Number---									
				01	02	03	04	05	06	07	08	09	10
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	0.5	8.6	53.1				T	2.6	7.8	T		T	0.9
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	0.2	3.3	31.3	2.8					T		T		
TOTAL INTRODUCED ANNUAL GRASSES	0.5	9.7	21.9								T		
TOTAL NATIVE PERENNIAL FORBS	15.4	274.5	100.0	16	3.4	T	1.1	11.3	34.5	9.8	5.6	7.6	13.3
TOTAL INTRODUCED PERENNIAL FORBS	0.0	0.0	3.1	T									
TOTAL NATIVE PERENNIAL GRASSES (c)	16.2	288.6	87.5	49.9			49.7	9.1		10.3	15	114.5	6.2
TOTAL INTRODUCED PERENNIAL GRASSES (c)	7.7	138.1	15.6			175			41.7				
TOTAL PRODUCTION	40.5	722.8		68.7	3.4	175.0	50.8	23.0	84.0	20.1	20.6	122.1	20.4
<i>Standard Deviation</i>	35.786	638.562											

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	Production (gm/0.5 m ²)														
	---Sample Number---														
	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS		T	T	T	T		4	T		T			T		T
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS			T			T	1.9				1.1				
TOTAL INTRODUCED ANNUAL GRASSES		T				T	13.4	T					T		
TOTAL NATIVE PERENNIAL FORBS	6.7	22	2.5	7.2	36.4	5.1	6	9.3	68.9	44.2	19.1	11	8.2	21	10.2
TOTAL INTRODUCED PERENNIAL FORBS															
TOTAL NATIVE PERENNIAL GRASSES (c)	4.2	33.5		T	5.1	21.3	2.5	31.6	6.4	8.6	T	63.1	23.1	3.1	1.7
TOTAL INTRODUCED PERENNIAL GRASSES (c)											8.6				
TOTAL PRODUCTION	10.9	55.5	2.5	7.2	41.5	26.4	27.8	40.9	75.3	52.8	28.8	74.1	31.3	24.1	11.9
Standard Deviation															

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

Table B-10. Production Data - Sagebrush ERA, Phase III Bond Release Evaluation, Seneca 2W SPL, Routt County, CO - 2023

PLANT SPECIES	Production (gm/0.5 m ²)						
	---Sample Number---						
	26	27	28	29	30	31	32
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	T						T
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	T						T
TOTAL INTRODUCED ANNUAL GRASSES							4
TOTAL NATIVE PERENNIAL FORBS	24.9	24	20.5	15.1	5	4.6	17.7
TOTAL INTRODUCED PERENNIAL FORBS							
TOTAL NATIVE PERENNIAL GRASSES (c)	12.8	1	16.4	1.6	8.3	7.6	11
TOTAL INTRODUCED PERENNIAL GRASSES (c)	12.7					9.7	
TOTAL PRODUCTION	37.7	25.0	36.9	16.7	26.0	21.9	32.7
Standard Deviation							

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

Table B-11. Production Data - Steep Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W SPL, Routt County, CO - 2023

PLANT SPECIES	AVERAGE PRODUCTION (gms/0.5m ²)	AVERAGE PRODUCTION (lb/acre)	FREQUENCY (%)	Production (gm/0.5 m ²) ---Sample Number---									
				01	02	03	04	05	06	07	08	09	10
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	0.0	0.4	46.9	T			T	0.6	T		T		
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	1.9	34.5	43.8	1.7		T	T	T	31.1	1			0.4
TOTAL INTRODUCED ANNUAL GRASSES	0.7	12.7	53.1	9.2	T	T	T	T		T		T	
TOTAL NATIVE PERENNIAL FORBS	6.0	107.9	84.4	11.5	2.8		4.5		13.7		3.3	1.5	20.2
TOTAL NATIVE PERENNIAL GRASSES (c)	28.6	510.6	93.8	0.9	31.5	244.9	56.1	26.1		15	28.8	35.3	10.9
TOTAL INTRODUCED PERENNIAL GRASSES (c)	0.0	0.7	3.1						1.2				
TOTAL PRODUCTION	37.4	666.8		23.3	34.3	244.9	60.6	26.7	46.0	16.0	32.1	36.8	31.5
Standard Deviation	41.374	738.266											

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	Production (gm/0.5 m ²)														
	---Sample Number---														
	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	T	T				T	T		T			T	T		
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	0.6				25									T	T
TOTAL INTRODUCED ANNUAL GRASSES	3.3		T			T	T					T		T	T
TOTAL NATIVE PERENNIAL FORBS	37.3	17.9		3.2	21.1	1.1	6.5	T	1	T	10.5	T		1.6	16
TOTAL NATIVE PERENNIAL GRASSES (c)	6.3	17.7	8.6	12.5	3.9	45.7	16	34.2	23.5	53.6	3.3	81.1	16.6	9.2	23
TOTAL INTRODUCED PERENNIAL GRASSES (c)															
TOTAL PRODUCTION	47.5	35.6	8.6	15.7	50.0	46.8	22.5	34.2	24.5	53.6	13.8	81.1	16.6	10.8	39.0
Standard Deviation															

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

Table B-11. Production Data - Steep Mountain Brush ERA, Phase III Bond Release Evaluation, Seneca 2W SPL, Routt County, CO - 2023

PLANT SPECIES	Production (gm/0.5 m ²)						
	---Sample Number---						
	26	27	28	29	30	31	32
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	T			T	T		
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS		2		T	T		
TOTAL INTRODUCED ANNUAL GRASSES		6.1		T	4.1		
TOTAL NATIVE PERENNIAL FORBS	0.7	T	2.3	2.5	10.9	T	3.3
TOTAL NATIVE PERENNIAL GRASSES (c)	11.6	5.1	10.7	30.5	16.2	28.9	8
TOTAL INTRODUCED PERENNIAL GRASSES (c)							
TOTAL PRODUCTION	12.3	13.2	13.0	33.0	31.2	28.9	11.3
<i>Standard Deviation</i>							

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	AVERAGE PRODUCTION (gms/0.5m ²)	AVERAGE PRODUCTION (lb/acre)	FREQUENCY (%)	Production (gm/0.5 m ²) ---Sample Number---									
				01	02	03	04	05	06	07	08	09	10
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	0.8	14.8	68.8	0.6		4.7	0.9	0.5		T	1.2	T	T
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	0.8	14.7	62.5	0.5	T	T		T		0.6	T	3.4	3.5
TOTAL INTRODUCED ANNUAL GRASSES	1.4	25.3	28.1			T							2.4
TOTAL NATIVE PERENNIAL FORBS	10.2	182.4	87.5	20.4	T	T	29.4	14.7		3.4	3.2	2	25.1
TOTAL INTRODUCED PERENNIAL FORBS	0.1	1.3	6.3										
TOTAL NATIVE PERENNIAL GRASSES (c)	12.4	222.1	93.8	5.7	9.6	7.4	14.5	6.9	6.7	4.1	11.7	33.7	1.8
TOTAL INTRODUCED PERENNIAL GRASSES (c)	0.9	16.6	12.5							0.7			
TOTAL PRODUCTION	26.7	477.1		27.2	9.6	12.1	44.8	22.1	6.7	8.8	16.1	39.1	32.8
<i>Standard Deviation</i>	<i>18.496</i>	<i>330.048</i>											

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	Production (gm/0.5 m ²)														
	---Sample Number---														
	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	T				6.3	3	2.4		1.5	1	2.1		T	T	T
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	0.5	T	10.7			2.1	T		0.3	T	T		T	T	T
TOTAL INTRODUCED ANNUAL GRASSES							T		T	21.7		T	2.8		0.7
TOTAL NATIVE PERENNIAL FORBS	12.1			2.5	T		43.9	16	11.3	16	0.7	50.6	2.7	T	5.3
TOTAL INTRODUCED PERENNIAL FORBS									2.3	T					
TOTAL NATIVE PERENNIAL GRASSES (c)	10.9	14.9	T	11.3	13.3	17.5	2.9	5.9	2.4	13	32	9.4	18.2	95.1	13.7
TOTAL INTRODUCED PERENNIAL GRASSES (c)			6.4												
TOTAL PRODUCTION	23.5	14.9	17.1	13.8	19.6	22.6	49.2	21.9	17.8	51.7	34.8	60.0	23.7	95.1	19.7
Standard Deviation															

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

PLANT SPECIES	Production (gm/0.5 m ²)						
	---Sample Number---						
	26	27	28	29	30	31	32
TOTAL NATIVE ANNUAL AND BIENNIAL FORBS	T	2.3	T		T		
TOTAL INTRODUCED ANNUAL AND BIENNIAL FORBS	4.7						
TOTAL INTRODUCED ANNUAL GRASSES	17.7						
TOTAL NATIVE PERENNIAL FORBS	T	7.9	1	7.8	20.3	2	28.7
TOTAL INTRODUCED PERENNIAL FORBS							
TOTAL NATIVE PERENNIAL GRASSES (c)	T	18.4		2.1	5.6	9.5	
TOTAL INTRODUCED PERENNIAL GRASSES (c)			8.3				14.3
TOTAL PRODUCTION	22.4	28.6	9.3	9.9	25.9	11.5	43.0
<i>Standard Deviation</i>							

*T=Trace amounts present but with less than 0.1 gm/0.5 sq. m.

Table B-13. Woody Plant Density Data - BRB-6 Background Shrubs, Phase III Bond Release Evaluation, Seneca 2W SPL, Routt County, CO - 2023

[illegible]

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	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
NATIVE SUBSHRUBS																	
Gutierrezia sarothrae															1		
TOTAL NATIVE SUBSHRUBS	3.0														1.0		
NATIVE SHRUBS																	
Amelanchier alnifolia																	
Artemisia cana														29	204		
Artemisia tridentata		7	6	6	5	24		2	27	32				26	46		
Ericameria nauseosa	2	148															8
Purshia tridentata		1															
Symphoricarpos rotundifolius										8						1	
TOTAL NATIVE SHRUBS	2.0	156.0	6.0	6.0	5.0	26.0		2.0	32.0	45.0		3.0	29.0	230.0	55.0		
TOTAL DENSITY	2.0	159.0	6.0	6.0	5.0	26.0		2.0	32.0	45.0		3.0	29.0	230.0	56.0		
Standard Deviation																	
SPECIES DENSITY (# of species/100 sq.m.)	1	4	1	1	1	2		1	2	3		1	1	2	4		
Standard Deviation																	

Table B-13. Woody Plant Density Data - BRB-6 Background Shrubs, Phase III Bond Release Evaluation, Seneca 2W SPL, Routt County, CO - 2023

	26	27	28	29	30	31	32
NATIVE SUBSHRUBS							
Gutierrezia sarothrae							
TOTAL NATIVE SUBSHRUBS							
NATIVE SHRUBS							
Amelanchier alnifolia							
Artemisia cana							
Artemisia tridentata				7		2	
Ericameria nauseosa							
Purshia tridentata				18			
Symphoricarpos rotundifolius				5			
TOTAL NATIVE SHRUBS				30.0		2.0	
TOTAL DENSITY				30.0		2.0	
Standard Deviation							
SPECIES DENSITY (# of species/100 sq.m.)				3		1	
Standard Deviation							

Table C-1. Data Summary - Cover, Production and Woody Plant Density - All Areas, Phase III Bond Release Evaluation, Seneca 2W Mine, SPL, Routt County, CO - 2022-2023

Year	AREA	TOTAL ALL-HIT FOLIAR COVER (%)	TOTAL ALLOWABLE ALL-HIT HERBACEOUS COVER (absolute) ¹ (%)	% OF AFFECTED AREA	90% OF COVER PERFORMANCE STANDARD ² (%) based on reference area allowable means	90% OF UPWARDLY ADJUSTED COVER PERFORMANCE STANDARD ³	STANDING DEAD (%)	LITTER (%)	SOIL (%)	ROCK (%)
2022	BRB-6	52.7	42.6	NA	31.9	NA	1.7	27.4	18.2	4.0
	Aspen Reference	121.7	62.2	0.110	NA	NA	0.6	13.4	3.4	-
	Mtn. Brush Reference	111.0	34.1	0.345	NA	NA	1.1	14.7	6.1	0.1
	Sagebrush Reference	73.6	32.5	0.313	NA	NA	4.3	21.1	11.6	0.4
	Steep Mtn. Brush Reference	47.7	20.5	0.128	NA	NA	2.1	15.6	30.4	10.4
	Western Wheat Reference	55.7	38.4	0.104	NA	NA	1.3	26.6	22.1	0.5
2023	BRB-6	63.3	53.5	NA	40.1	40.5	1.3	26.2	11.4	2.7
	Aspen Reference	150.7	70.1	0.110	NA	NA	0.6	7.4	3.6	0.1
	Mtn. Brush Reference	100.5	38.7	0.345	NA	NA	1.8	15.3	6.5	0.3
	Sagebrush Reference	92.6	46.1	0.313	NA	NA	3.9	13.1	4.8	0.4
	Steep Mtn. Brush Reference	60.3	29.9	0.128	NA	NA	1.7	14.9	19.9	8.5
	Western Wheat Reference	67.6	50.5	0.104	NA	NA	0.8	22.4	14.2	0.2

NA = Not Applicable; NC= Not Collected

¹Percent "all-hit" cover (absolute) by herbaceous species as corrected for "allowable" annual and biennial cover (i.e. no more than 10 percent relative cover allowed, See CDMG 1995, 1.IV.A.). Cover by noxious weed species, if any, is also subtracted.

²All-hit" ref. area cover standard (Adj. Means weighted by % of Affected Area) for 2022 = 35.4%; 90 percent of reference area cover performance standard = $0.9 \times 35.4 = 31.9\%$

³Calculation of 90 percent of the cover performance standard using the highest possible value for the Steep Mountain Brush Reference Area component in 2023

Year	AREA	TOTAL HERBACEOUS PRODUCTION (lbs./acre)	TOTAL ALLOWABLE HERBACEOUS PRODUCTION ⁴ (lbs./acre)	% OF AFFECTED AREA	90% OF HERBACEOUS PRODUCTION PERFORMANCE STANDARD ⁵ (lbs./acre)	TOTAL ALLOWABLE WOODY PLANT DENSITY - Background (stems/acre)	90 % of WOODY PLANT DENSITY MANDATORY PERFORMANCE STANDARD 1 (stems/acre)
2022	BRB-6	1,820.8	1,699.4	NA	437.8	1,217.9	180.0
	Aspen Reference	961.9	951.2	0.110	NA	NA	NA
	Mtn. Brush Reference	426.3	419.6	0.345	NA	NA	NA
	Sagebrush Reference	472.6	440.1	0.313	NA	NA	NA
	Steep Mtn. Brush Reference	516.0	309.5	0.128	NA	NA	NA
	Western Wheat Reference	728.5	573.5	0.104	NA	NA	NA
2023	BRB-6	1,641.2	1,559.5	NA	514.9	1,025.6	180.0
	Aspen Reference	643.3	640.2	0.110	NA	NA	NA
	Mtn. Brush Reference	461.4	439.4	0.345	NA	NA	NA
	Sagebrush Reference	722.8	713.0	0.313	NA	NA	NA
	Steep Mtn. Brush Reference	666.8	631.7	0.128	NA	NA	NA
	Western Wheat Reference	477.1	443.4	0.104	NA	NA	NA

NA = Not Applicable; NC= Not Collected

⁴Herbaceous production as corrected for "allowable" annual and biennial cover (i.e. no more than 10 percent relative cover allowed, See CDMG 1995, 1.IV.A.). Production by noxious weed

⁵Ref. area production standard (Adj. Means weighted by % of Affected Area) for 2022 = 486.4 lbs./acre. 90 percent of 2022 ref. area production standard = $0.9 \times 486.4 = 437.8$ lbs./acre.

Table C-2. Species Density Data Summary - All Areas, Phase III Bond Release Evaluation, Seneca 2W Mine, SPL, Routt County, CO - 2022-2023

-----INTRODUCED-----								-----NATIVE-----										
Year	AREA	TOTAL*	TOTAL	---FORBS---	---GRASSES---	TOTAL	---FORBS---	---GRASSES---	SUB-									
			INTRO. SP.	ANNUAL**	PERENN	ANNUAL	PERENN.	NATIVE	SP	ANNUAL**	PERENN	ANNUAL	PERENN.	(C PERENN.	(W PERENN.	SHRUB	SHRUBS	OTHERS**
2022	BRB-6	23.6	11.1	5.4	2.0	1.1	2.6	12.5	2.8	4.5	-	3.6	-	-	1.6	-		
	Aspen Reference	30.7	3.1	1.5	0.8	-	0.9	27.6	1.5	15.8	-	3.4	-	-	4.9	1.9		
	Mtn. Brush Reference	27.1	3.9	3.0	0.2	0.2	0.5	23.1	2.6	11.2	-	4.8	-	-	4.3	0.2		
	Sagebrush Reference	28.5	5.1	3.6	0.2	0.8	0.6	23.4	2.6	10.5	-	6.3	-	-	3.9	0.1		
	Steep Mtn. Brush Reference	23.6	5.2	2.9	0.1	1.8	0.4	18.3	0.8	6.6	-	5.0	-	0.3	5.6	0.1		
	Western Wheat Reference	27.3	6.5	4.3	0.9	0.8	0.6	20.8	3.5	8.9	-	5.4	-	0.0	2.9	0.2		
2023	BRB-6	18.2	8.9	4.1	1.4	0.8	2.7	9.3	1.4	3.5	-	2.9	-	0.1	1.3	0.1		
	Aspen Reference	32.1	2.6	1.3	0.1	-	1.1	29.5	1.6	16.6	-	3.8	-	-	6.2	1.4		
	Mtn. Brush Reference	28.1	3.6	2.3	0.3	0.3	0.7	24.5	2.5	10.5	-	5.8	-	-	5.5	0.1		
	Sagebrush Reference	23.9	3.0	1.6	0.1	0.5	0.7	20.9	1.3	10.5	-	5.2	-	-	4.0	-		
	Steep Mtn. Brush Reference	18.2	3.4	1.5	0.1	1.4	0.4	14.8	0.6	5.3	-	3.8	-	0.2	4.9	-		
	Western Wheat Reference	21.4	5.1	3.3	0.3	0.8	0.7	16.4	1.6	7.9	-	4.7	-	-	1.9	0.2		

* Due to rounding errors, table values may not sum exactly to this figure. Figures based on all-hit data.

** Annual category includes biennials.

*** Lower plants (mosses, lichens, ferns), introduced shrubs and trees, and succulents.

Table C-3. Relative Vegetation Cover - All Areas, Phase III Bond Release Evaluation, Sene a 2W Mine, SPL, Routt County, CO - 2022-2023

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Year	AREA	TOTAL*	-----INTRODUCED-----					-----NATIVE-----							
			TOTAL	---FORBS---	---GRASSES---	TOTAL	---FORBS---	---GRASSES---	SUB-						
			INTRO. SP.	ANNUAL**	PERENN	ANNUAL	PERENN.	NATIVE SP.	ANNUAL**	PERENN	ANNUAL	PERENN.	(C PERENN.	(W SHRUB	SHRUBS OTHER***
2022	BRB-6	100.0	55.4	9.9	19.6	3.4	22.6	44.6	4.6	8.5	-	22.6	-	-	8.9
	Aspen Reference	100.0	3.5	1.3	0.6	-	1.6	96.5	0.8	34.9	-	11.3	-	-	26.4
	Mtn. Brush Reference	100.0	2.3	1.3	0.1	0.1	0.8	97.7	1.1	11.1	-	16.9	-	-	68.6
	Sagebrush Reference	100.0	5.9	1.3	0.1	2.3	2.2	94.1	1.8	20.5	-	17.1	-	-	54.8
	Steep Mtn. Brush Reference	100.0	35.5	10.7	-	22.1	2.7	64.5	0.3	8.3	-	22.7	-	0.2	32.8
	Western Wheat Reference	100.0	18.9	5.9	0.6	7.6	4.9	81.1	5.0	22.3	-	32.9	-	-	20.8
2023	BRB-6	100.0	63.2	13.0	12.0	3.6	34.6	36.8	1.8	5.1	-	25.0	-	-	4.9
	Aspen Reference	100.0	3.5	0.3	0.0	-	3.1	96.5	0.8	32.1	-	9.7	-	-	40.1
	Mtn. Brush Reference	100.0	3.2	0.5	-	1.9	0.9	96.8	1.8	17.0	-	17.4	-	-	60.5
	Sagebrush Reference	100.0	9.1	2.0	0.1	2.4	4.6	90.9	1.8	23.2	-	17.3	-	-	48.5
	Steep Mtn. Brush Reference	100.0	21.5	8.6	-	11.8	1.0	78.5	0.3	8.8	-	30.8	-	0.7	37.9
	Western Wheat Reference	100.0	20.3	6.7	0.3	11.2	2.1	79.7	7.7	23.0	-	39.8	-	-	9.1

* Due to rounding errors, table values may not sum exactly to this figure. Figures based on all-hit data.

** Annual category includes biennials.

*** Lower plants (mosses, lichens, ferns), introduced shrubs and trees, and succulents.

Table C-4. Sample Adequacy - All Areas, Phase III Bond Release Evaluation, Seneca 2W Mine, SPL, Routt County, CO - 2022-2023

Year	AREA	---ALL HIT COVER---					-- ALLOWABLE ALL HIT HERBACEOUS COVER ³ --				
		Foliar Cover (%)	Std. Dev.	N ¹	N-min ² (n-1)	t	Foliar Cover (%)	Std. Dev.	N ¹	N-min ² (n-1)	t
2022	BRB-6	52.7	12.22	32	10	1.309	42.6	14.4	32	20	1.309
	Aspen Reference	121.7	33.35	17	14	1.337	62.2	11.8	17	7	1.337
	Mtn. Brush Reference	111.0	18.72	15	6	1.345	34.1	9.2	15	14	1.345
	Sagebrush Reference	73.6	13.27	18	6	1.333	32.5	8.09	18	11	1.333
	Steep Mtn. Brush Reference	47.7	12.4	18	13	1.333	20.5	5.73	18	14	1.333
	Western Wheat Reference	55.7	12.89	24	10	1.319	38.4	13.5	24	22	1.319
2023	BRB-6	63.3	10.05	32	5	1.309	53.5	14.4	32	13	1.309
	Aspen Reference	150.8	24.27	18	5	1.333	70.2	11.8	18	6	1.333
	Mtn. Brush Reference	100.5	12.05	15	3	1.345	38.7	6.7	15	6	1.345
	Sagebrush Reference	92.6	12.91	17	4	1.337	46.1	10.8	17	10	1.337
	Steep Mtn. Brush Reference	60.3	11.73	15	7	1.345	29.9	11.3	15	26	1.345
	Western Wheat Reference	67.6	14.93	16	9	1.341	50.5	12.7	16	12	1.341

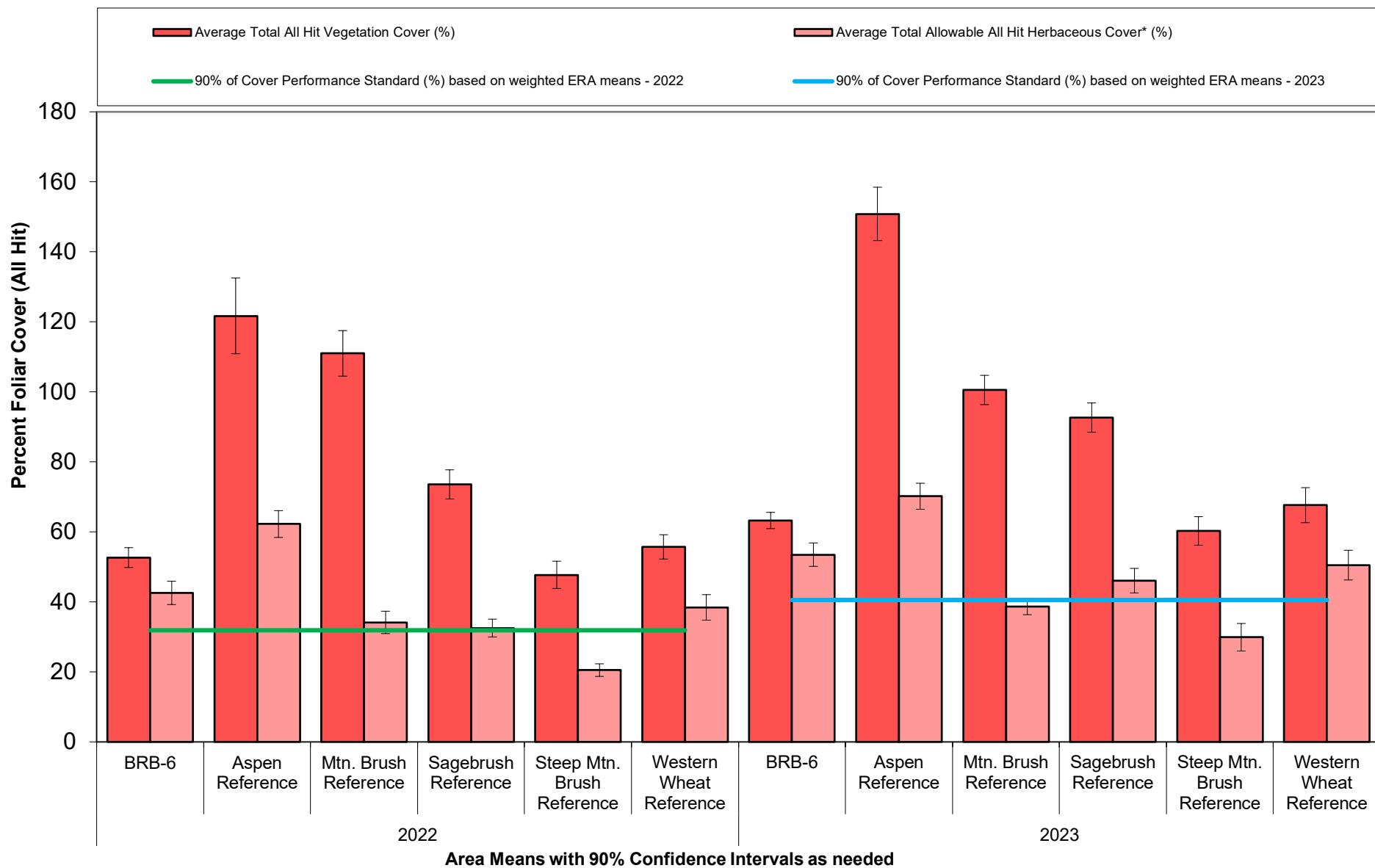
Year	AREA	---TOTAL HERBACEOUS PRODUCTION---					---ALLOWABLE HERBACEOUS PRODUCTION ⁴ ---				
		gm/0.5 sq.m.	Std. Dev.	N ¹	N-min ² (n-1)	t	gm/0.5 sq.m.	Std. Dev.	N ¹	N-min ² (n-1)	t
2022	BRB-6	102.0	55.56	32	51	1.309	95.2	58.3	32	65	1.309
	Aspen Reference	53.9	30.02	32	54	1.309	53.31	29.6	32	53	1.309
	Mtn. Brush Reference	23.9	10.58	32	34	1.309	23.51	10.1	32	32	1.309
	Sagebrush Reference	26.5	15.73	32	61	1.309	24.7	15.9	32	71	1.309
	Steep Mtn. Brush Reference	28.9	16.89	32	59	1.309	17.3	12.1	32	84	1.309
	Western Wheat Reference	40.8	19.2	32	38	1.309	32.1	18.7	32	59	1.309
2023	BRB-6	92.0	59.46	32	72	1.309	87.4	62.1	32	87	1.309
	Aspen Reference	36.0	16.63	32	37	1.309	35.88	16.6	32	37	1.309
	Mtn. Brush Reference	25.9	24.21	32	151	1.309	24.62	24.8	32	174	1.309
	Sagebrush Reference	40.5	35.79	32	134	1.309	40.0	36.1	32	140	1.309
	Steep Mtn. Brush Reference	37.4	41.37	32	211	1.309	35.4	41.7	32	238	1.309
	Western Wheat Reference	26.7	18.5	32	83	1.309	24.8	18.8	32	99	1.309

Year	AREA	BACKGROUND ---WOODY PLANT DENSITY ⁵ ---					VOLUNTEER CONCENTRATION AREA ---WOODY PLANT DENSITY ⁵ ---				
		#/100 sq.m.	Std. Dev.	N ¹	N-min ² (n-1)	t	#/100 sq.m.	Std. Dev.	N ¹	N-min ² (n-1)	t
2022	BRB-6	30.1	55.5	32	260	1.309	30.1	55.5	32	260	1.309
2023	BRB-6	25.344	49.83	32	295	1.309	25.34	49.8	32	295	1.3094635

NA = Not Applicable; NC= Not Collected

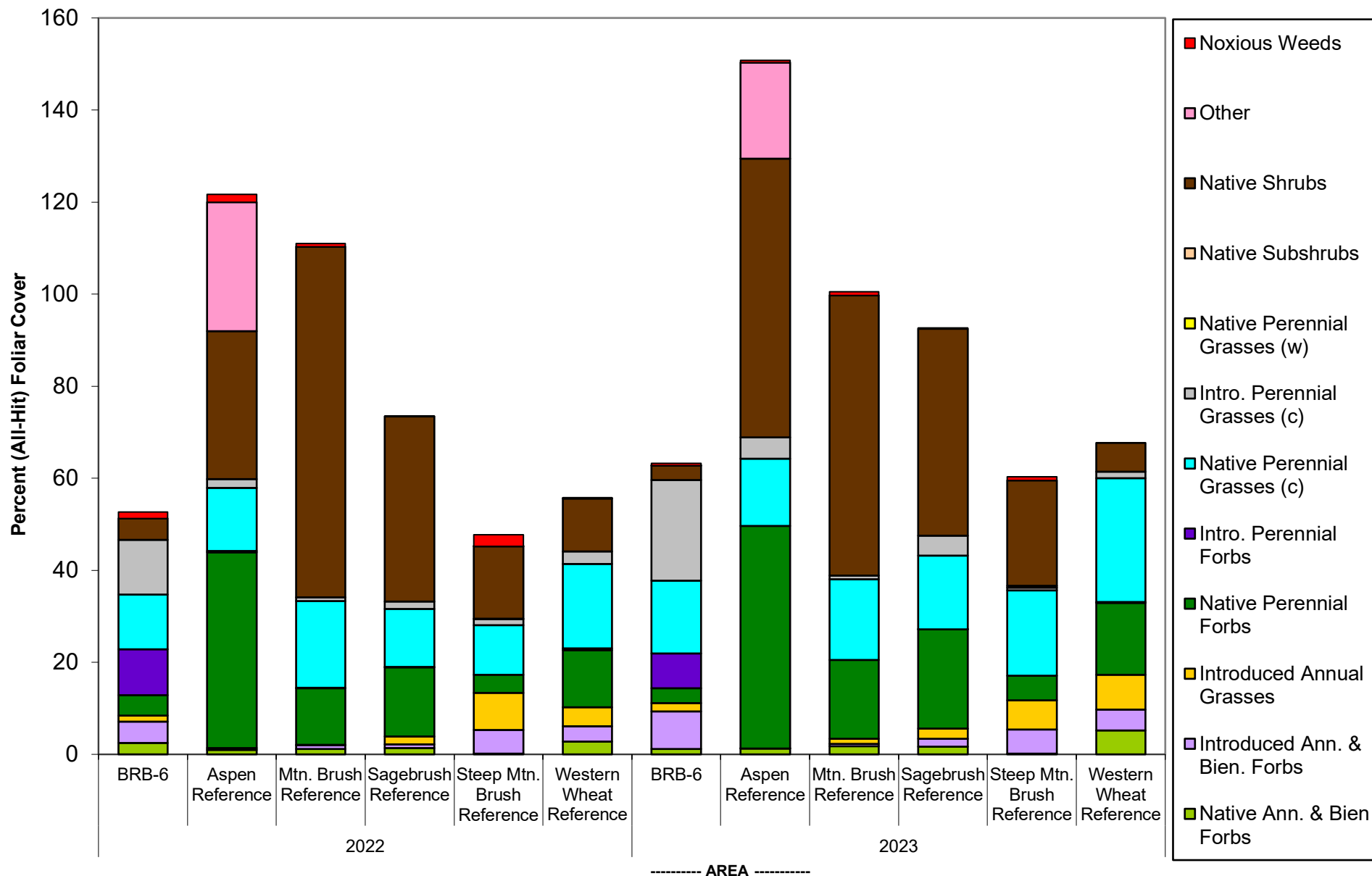
¹N = Sample Size²N-min = Minimum sample size necessary to detect a 10% reduction in the mean (15% reduction for Woody Plant Density) with 90% confidence using n-1 degrees of freedom³Sample adequacy (N-min) calculated using individual samples and all-hit herbaceous cover corrected for "excess" annual cover and noxious weeds. If adequacy is not achieved for allowable cover - Upward Adjustment of the ERA mean is used to calculated the area weighted performance criteria (Adequacy must be achieved for total cover).⁴Herbaceous production as corrected for "allowable" annual and biennial cover (i.e. no more than 10 percent relative cover allowed, See CDMG 1995, 1.IV.A.). Production by noxious weed species is not collected. If adequacy is not achieved - hypothesis of reclamation success is tested using a one-sided t-test of the Reverse Null Hypothesis. Satterthwaite's Adjustment may be applied to data (CDMG 2010 proposed rules revisions, 4.15.11 (2)(c)).⁵If adequacy is not achieved - hypothesis of reclamation success is tested using a one-sided t-test of the Reverse Null Hypothesis (CDMG 2010 proposed rules revisions, 4.15.11 (2)(c)).

Figure D-1a. Absolute Cover Data - All Areas, Seneca 2W Mine, SPL, Routt County, CO - 2022-2023



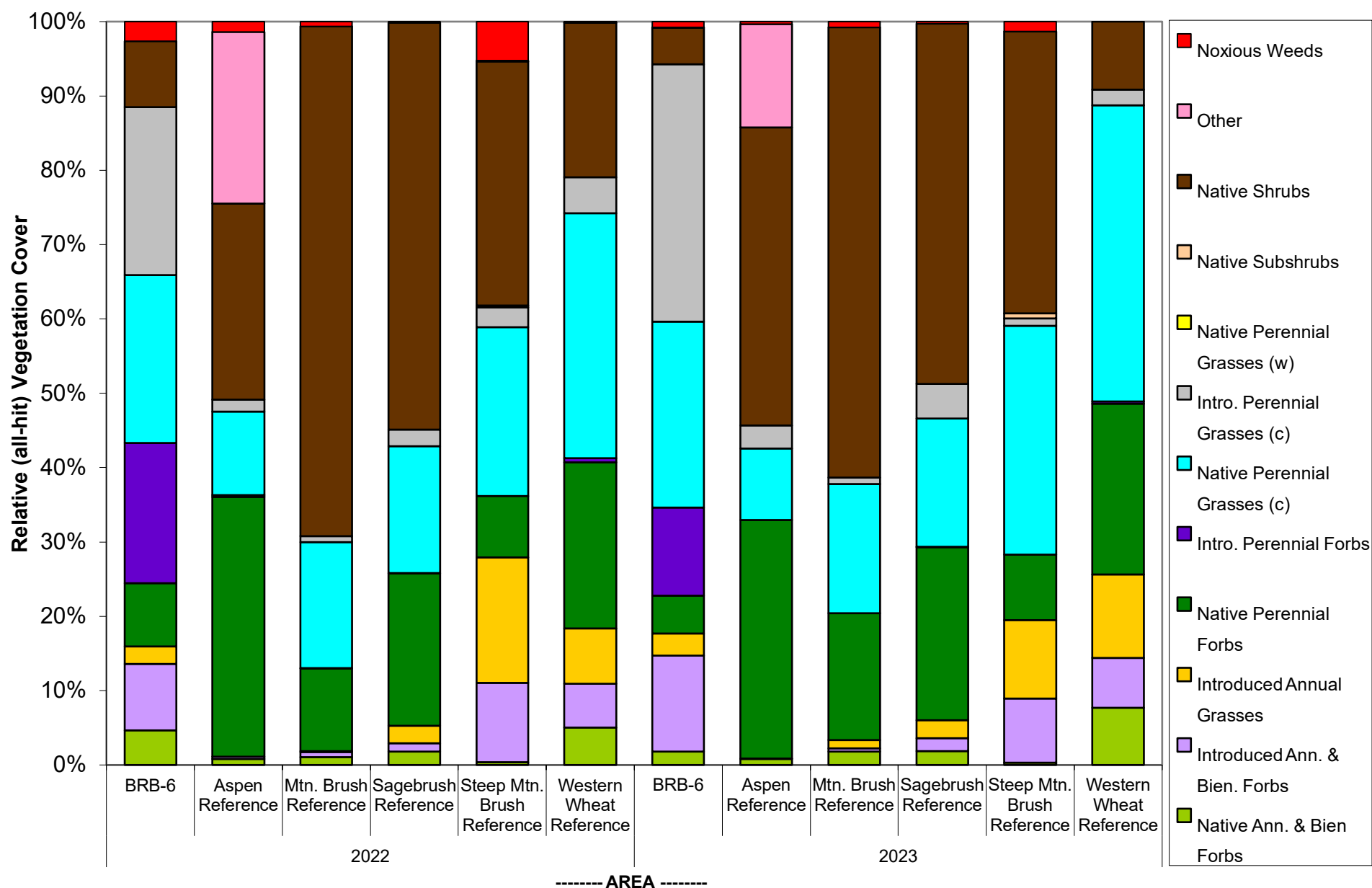
* Percent "all-hit" cover (absolute) by herbaceous species as corrected for "allowable" annual and biennial cover (i.e. no more than 10 percent relative cover allowed, See CDMG 1995, 1.IV.A.). Cover by noxious weed species, if any, is also subtracted.

Figure D-1b. Absolute Cover Data by Lifeform - All Areas, Seneca 2W Mine, SPL, Routt County, CO - 2022-2023



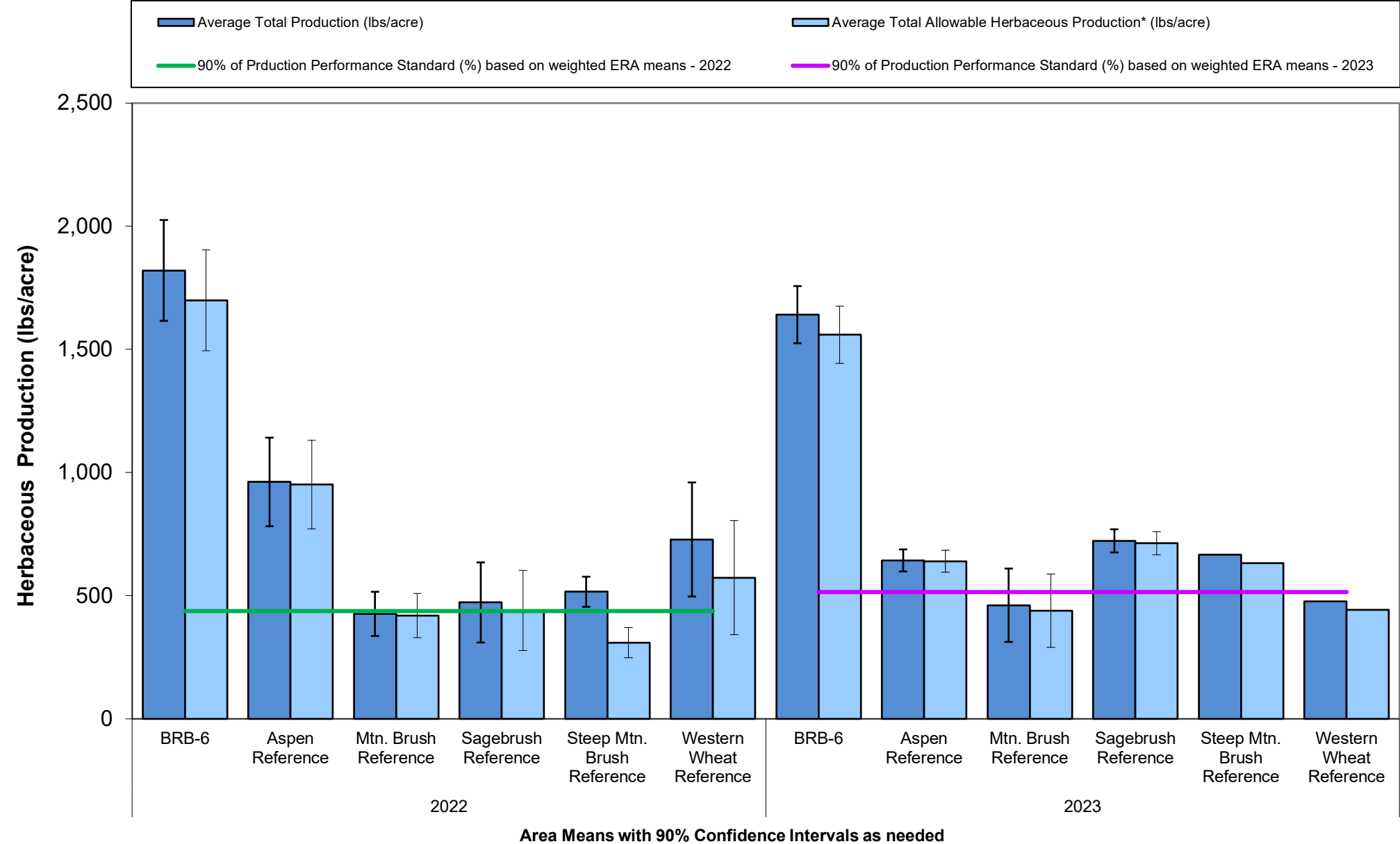
Other category includes values from trees, succulents, ferns, vines, bryophytes, fungi, lichens, and parasites. Noxious Weeds are excluded from lifeforms.

Figure D-1c. Relative Cover by Lifeform - All Areas, Seneca 2W Mine, SPL, Routt County, CO - 2022-2023



Other category includes values from trees, succulents, ferns, vines, bryophytes, fungi, lichens, and parasites.

Figure D-2. Production Data - Reclaimed and Reference Areas, Seneca 2W Mine, SPL, Routt County, CO - 2022-2023



* Production by herbaceous species as corrected for “allowable” annual and biennial production (i.e. no more than 10 percent relative production allowed, See CDMG 1995, 1.IV.A.). Cover by noxious weed species, if any, is also subtracted.

Figure D-3. Background and Volunteer Woody Plant Density Data - Seneca 2W Mine, SPL, Routt County, CO - 2022-2023

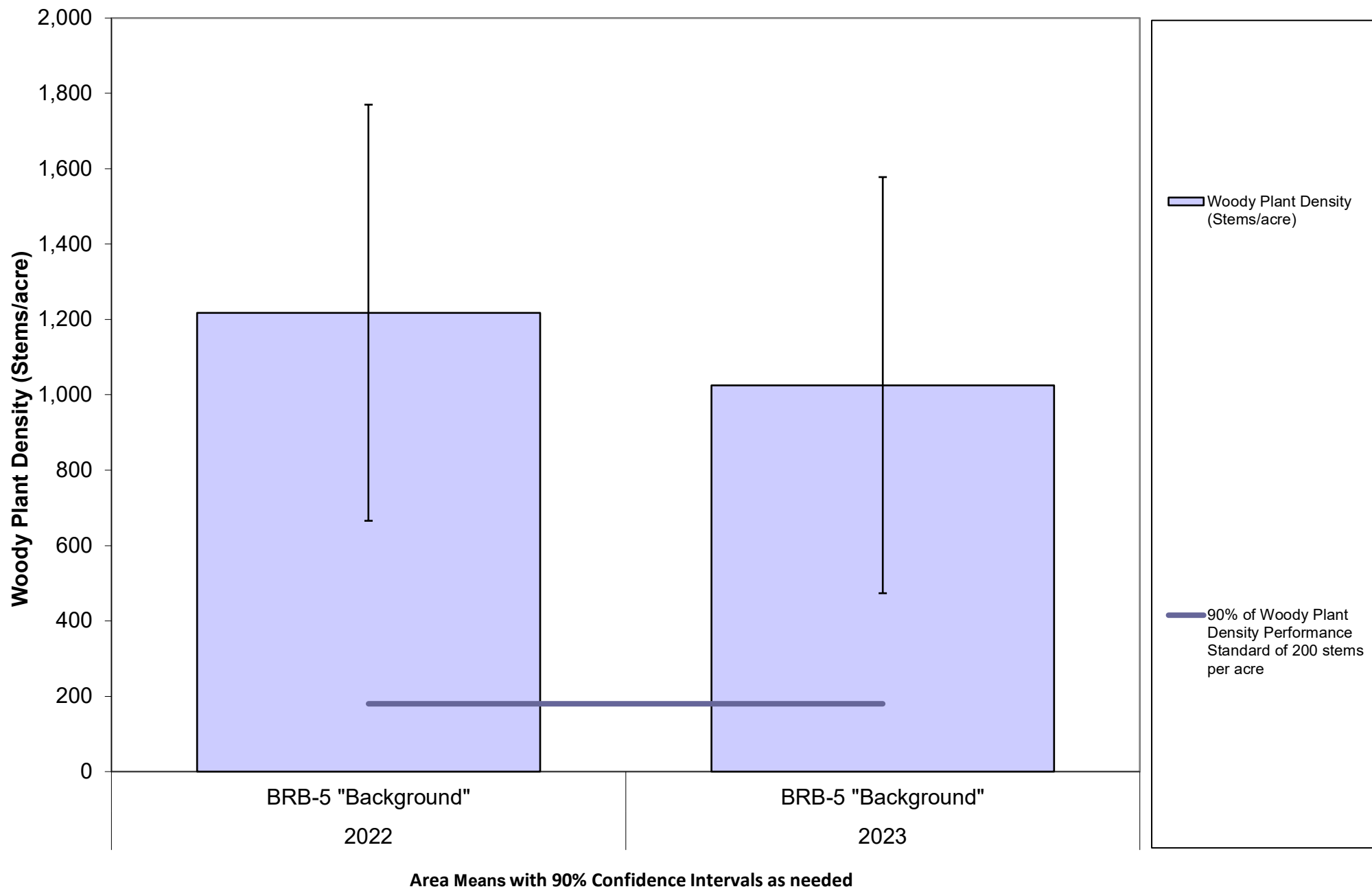
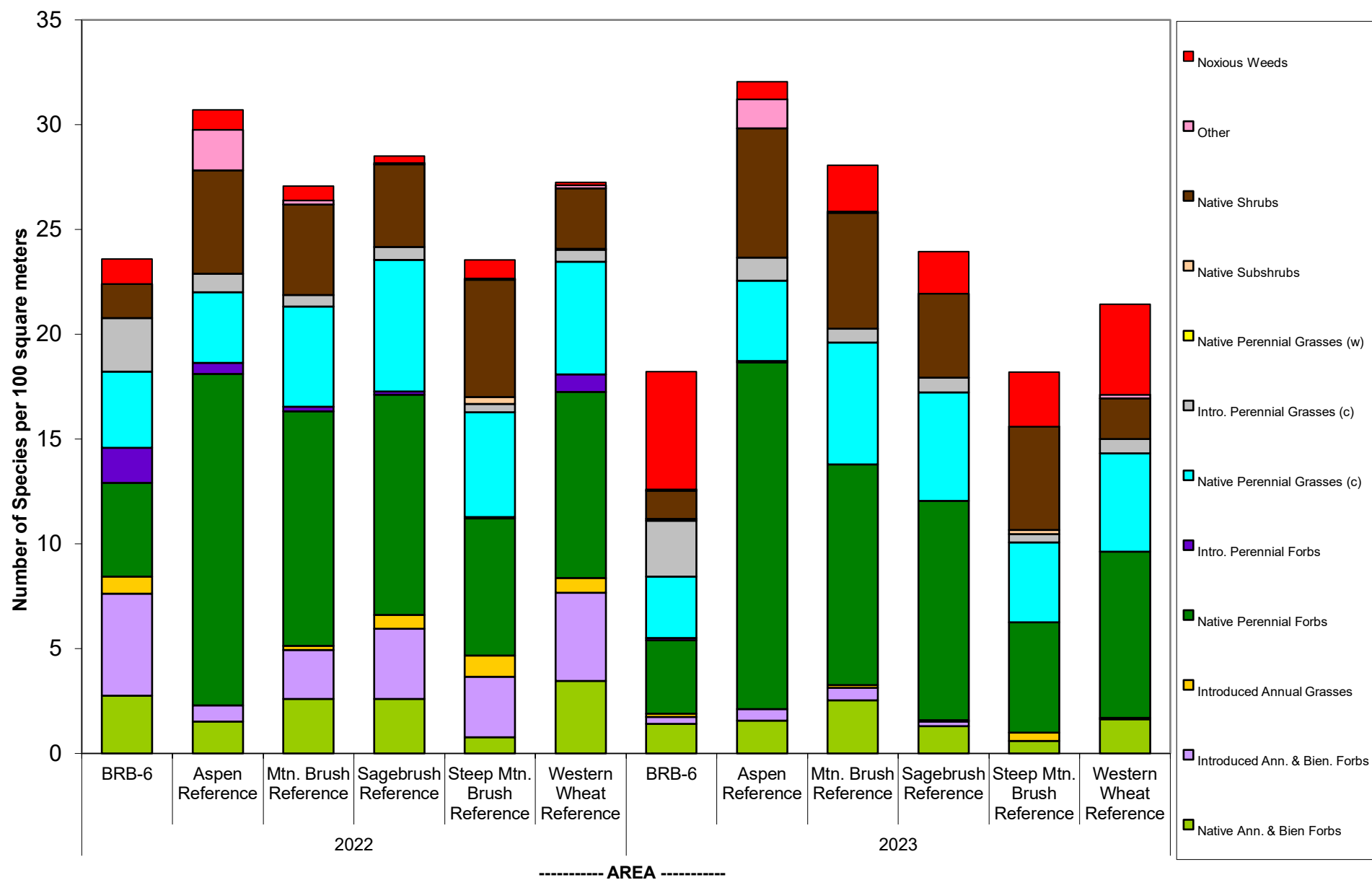
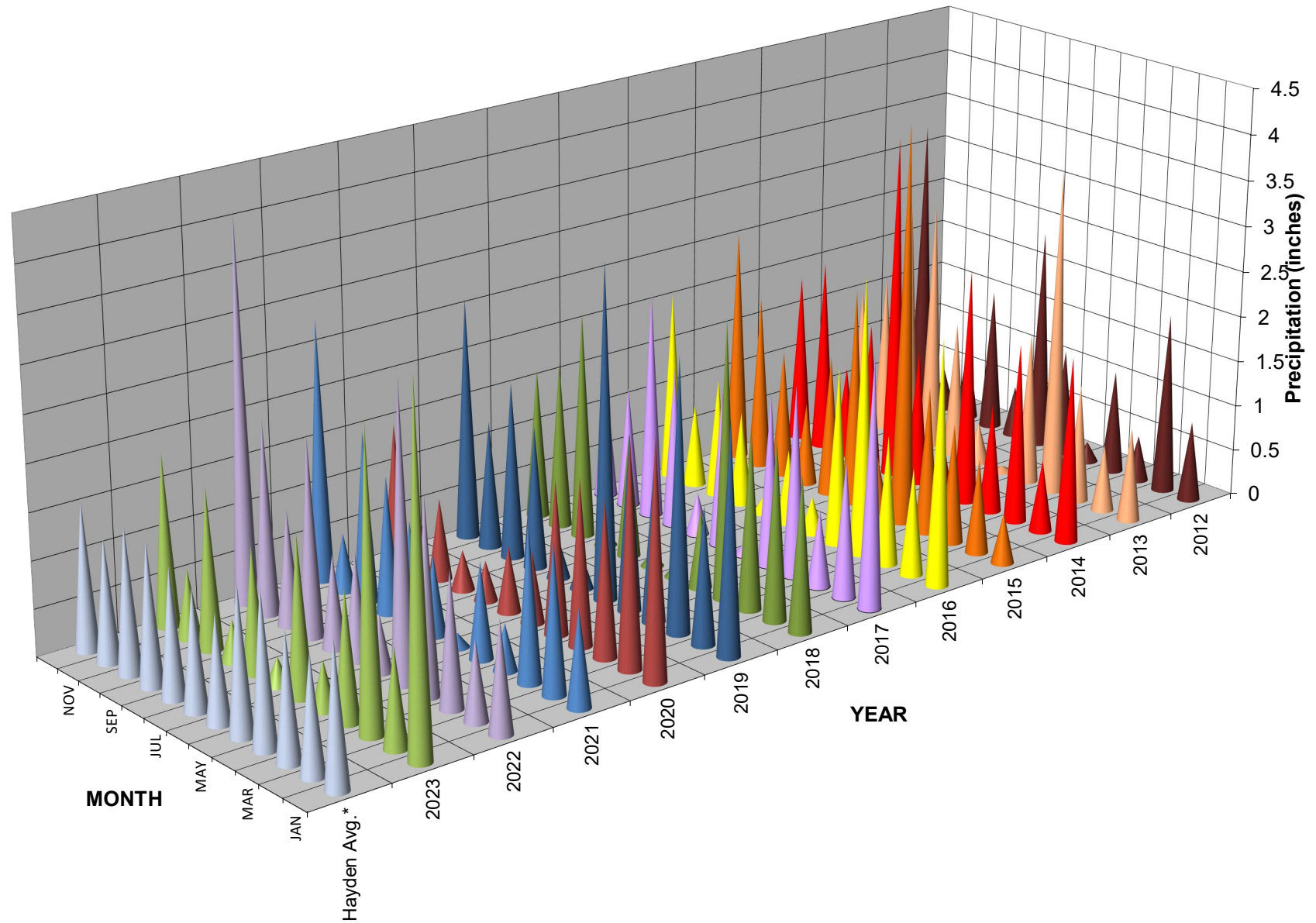


Figure D-4. Species Density by Lifeform - All Areas, Seneca 2W Mine, SCC, Routt County, CO - 2022-2023



Other category includes values from trees, succulents, ferns, vines, bryophytes, fungi, lichens, and parasites. Noxious Weeds are excluded from lifeforms.

Figure D-5a. Precipitation by Month (2012-2023) Seneca 2W Mine, SPL, Routt County, CO



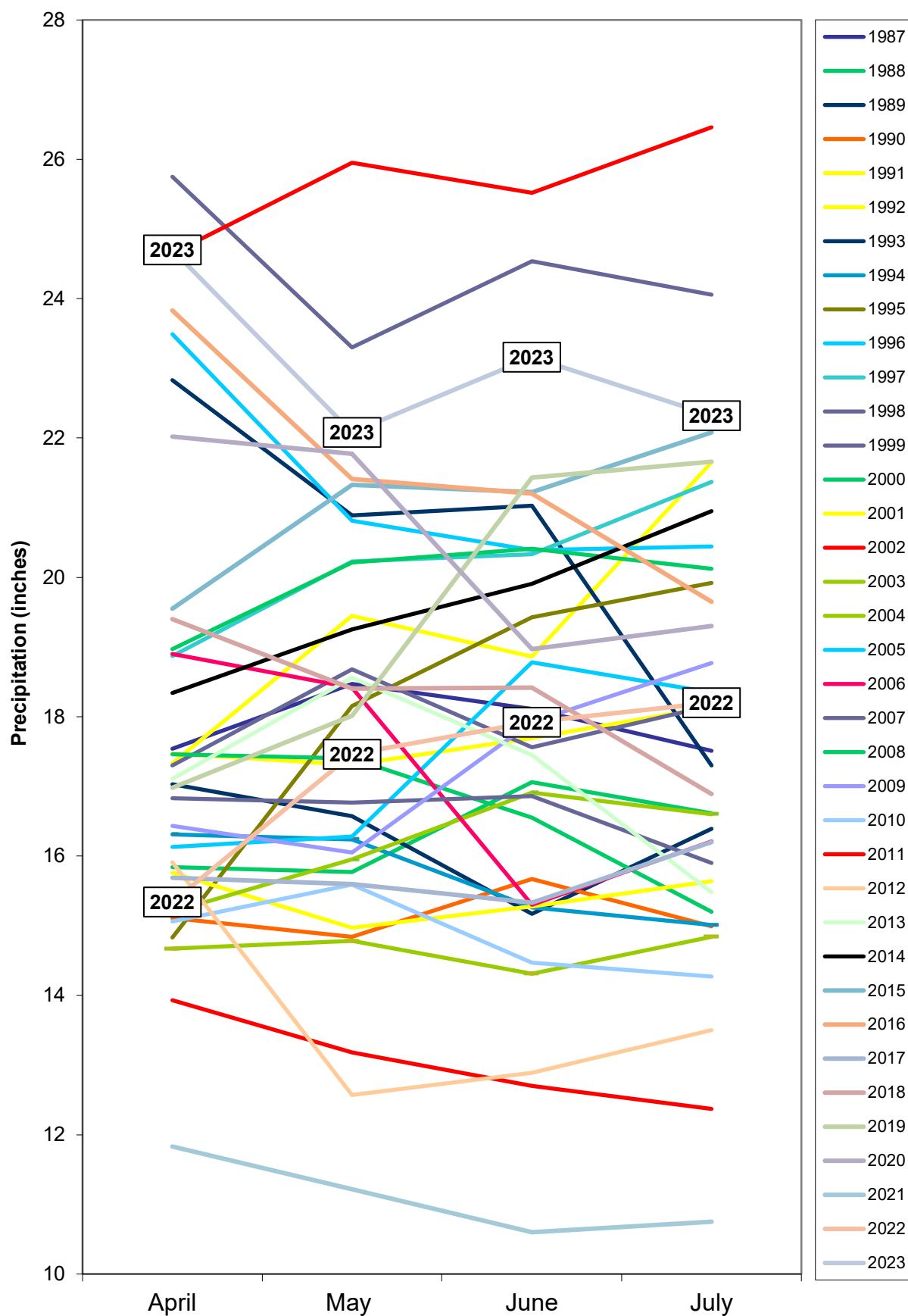
*Hayden Station 053867 Long Term Average - Period of Record: 1909-2023. Hayden Station 053867 data used for 2012-2023

Figure D-5b. Precipitation by Month and Year (2015-2023), Seneca 2W Mine, SPL, Routt County, CO



*Hayden Station 053867 Long Term Average - Period of Record: 1909-2023. Hayden Station 053867 data used for 2014-2023.

Figure D-6a. Total Precipitation for Previous 12 Months (1987-2023), Seneca 2W Mine, SPL, Routt County, CO



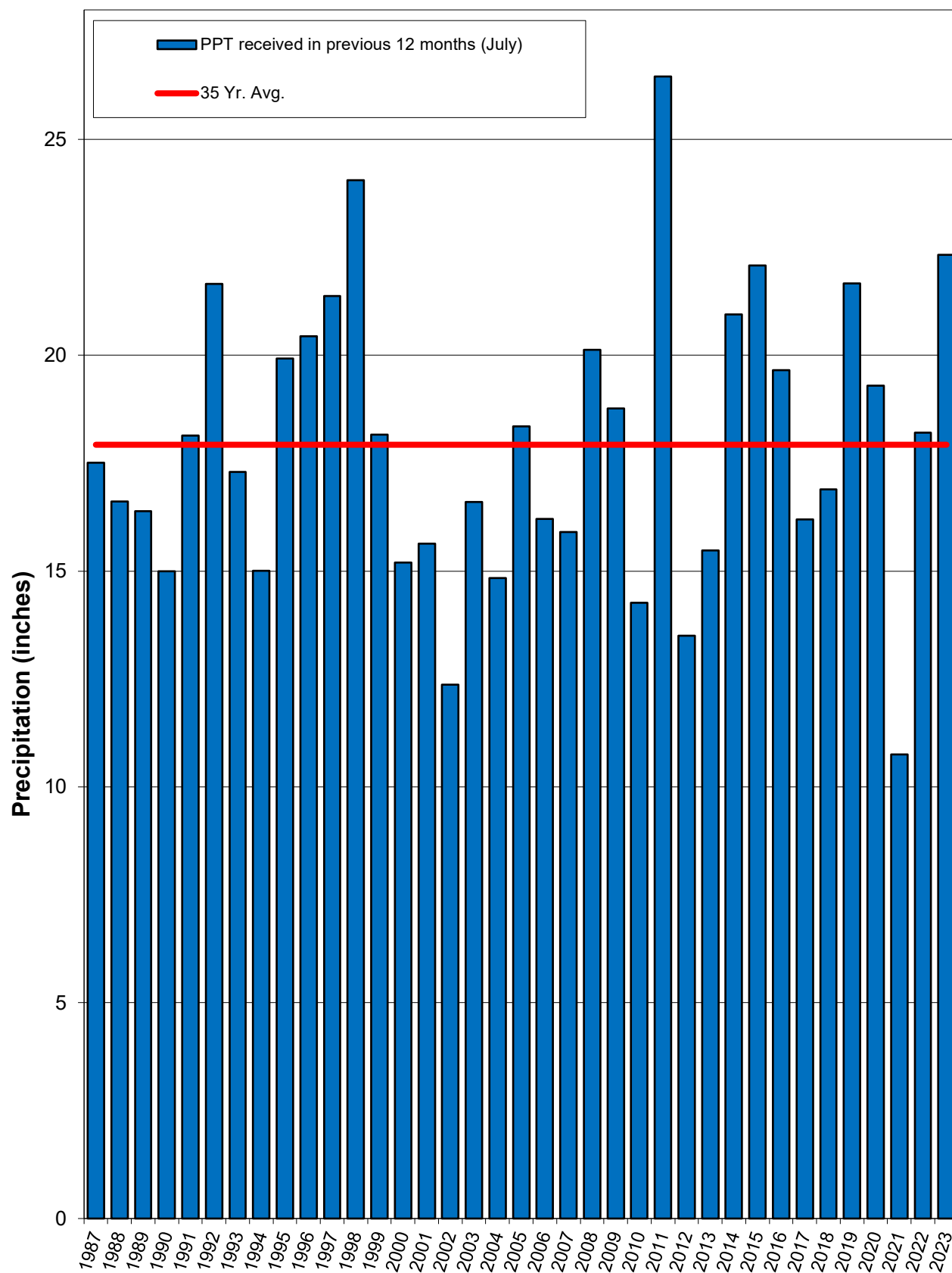


Figure D-7a. Total Precipitation for Previous 6 Months (1987-2023), Seneca 2W Mine, SPL, Routt County, CO

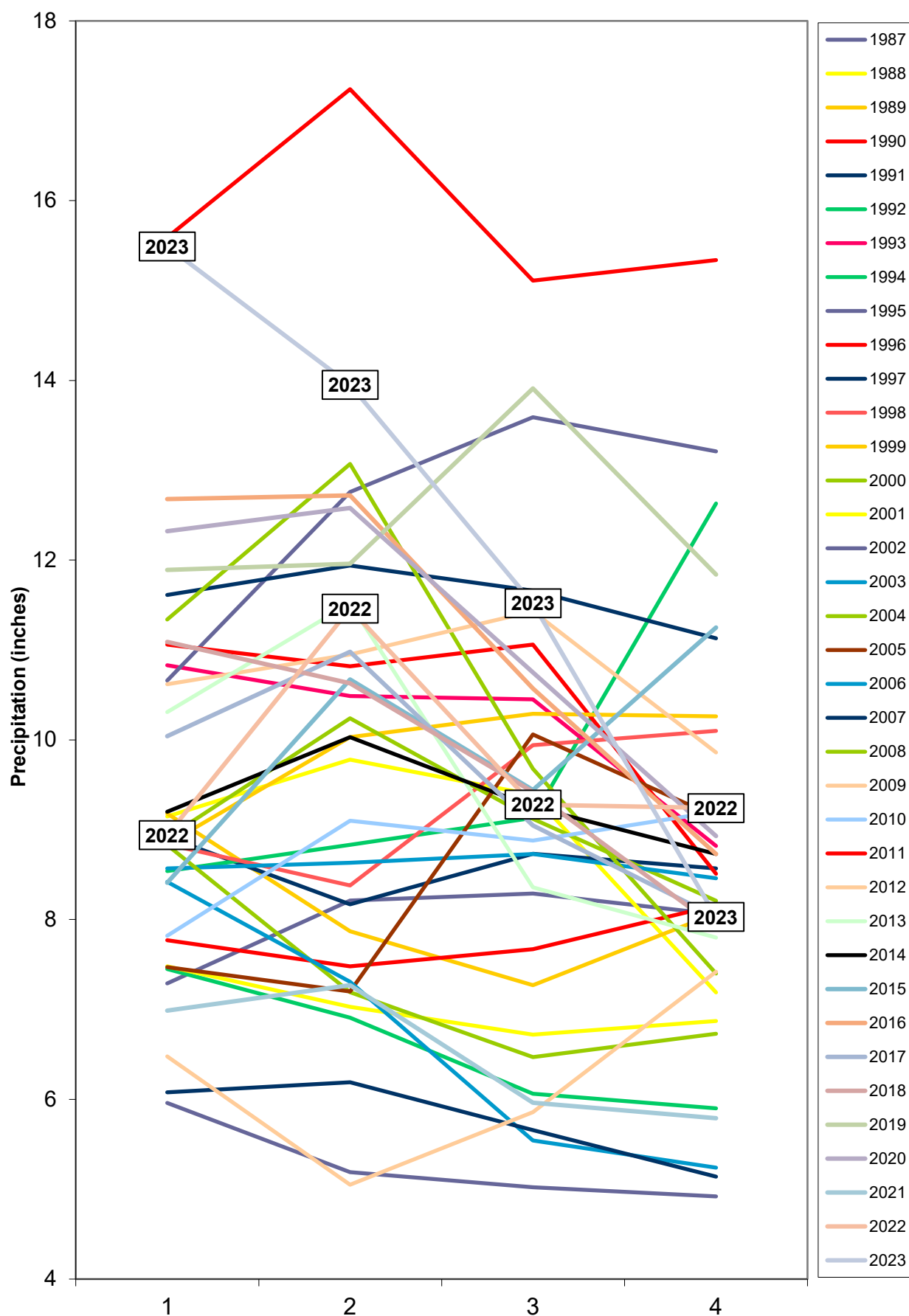


Figure D-7b. Total Precipitation for Previous 6 months (February-July, 1987-2023), Seneca 2W Mine, SPL, Routt County, CO 6 of 9

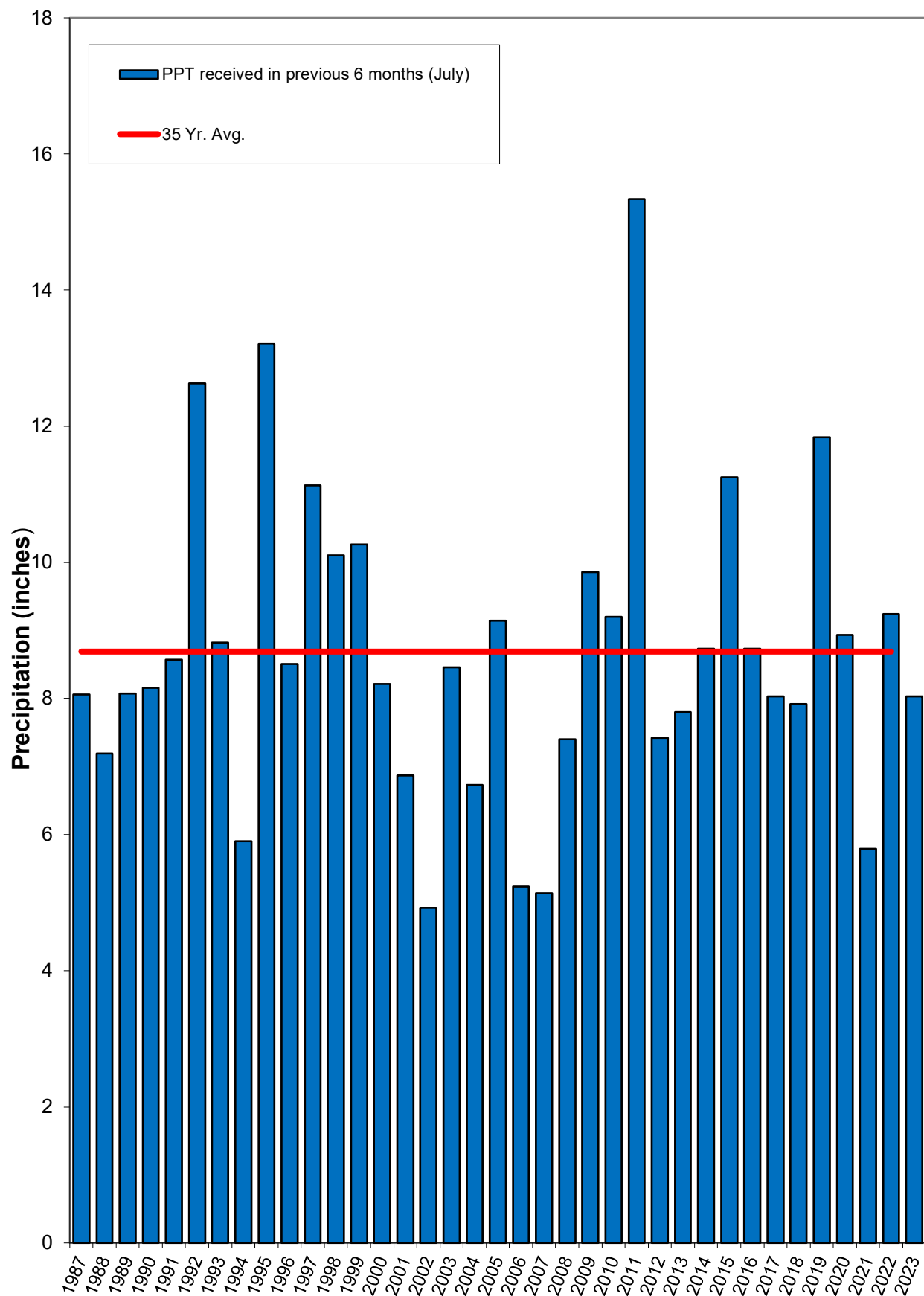


Figure D-8a. Total Precipitation for Previous 4 Months (1987-2023), Seneca 2W Mine, SPL, Routt County, CO

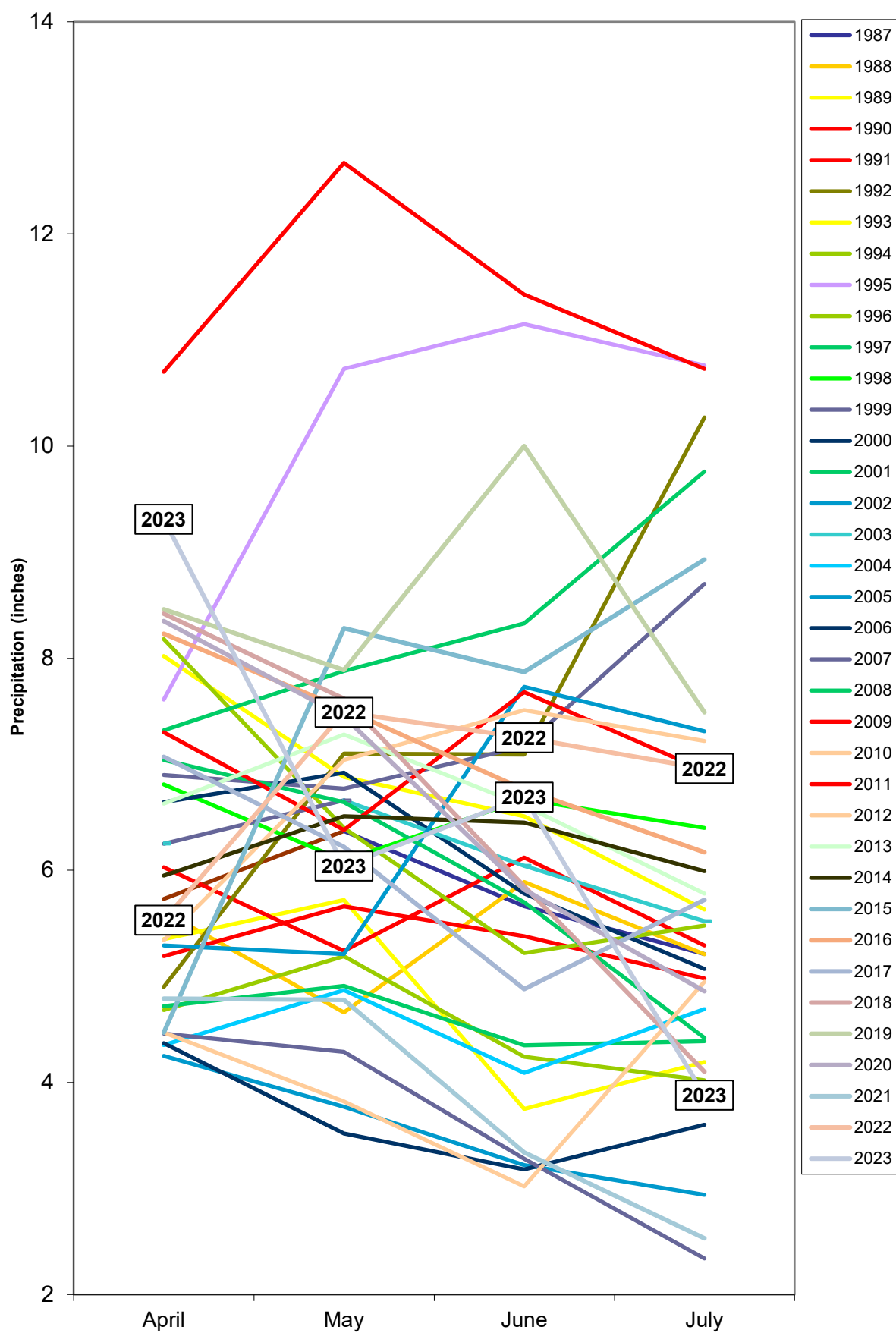


Figure D-8b. Total Precipitation for Previous 4 Months (April-July, 1987-2023), Seneca 2W Mine, SPL, Routt County, CO

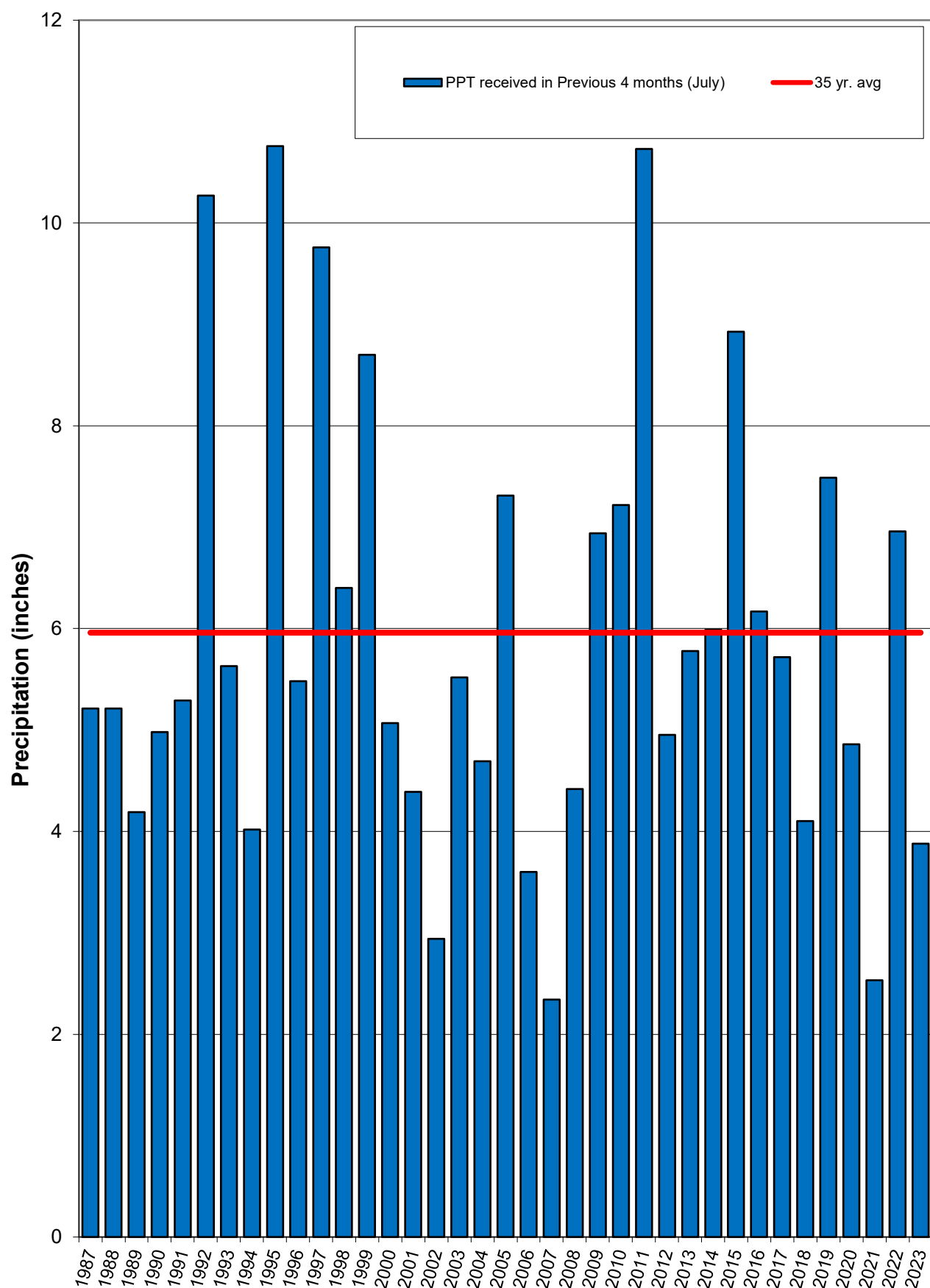


Figure D-9. Total Degree-days, Jan. to June (1986 to 2023), Seneca 2W Mine, SPL, Routt County, CO

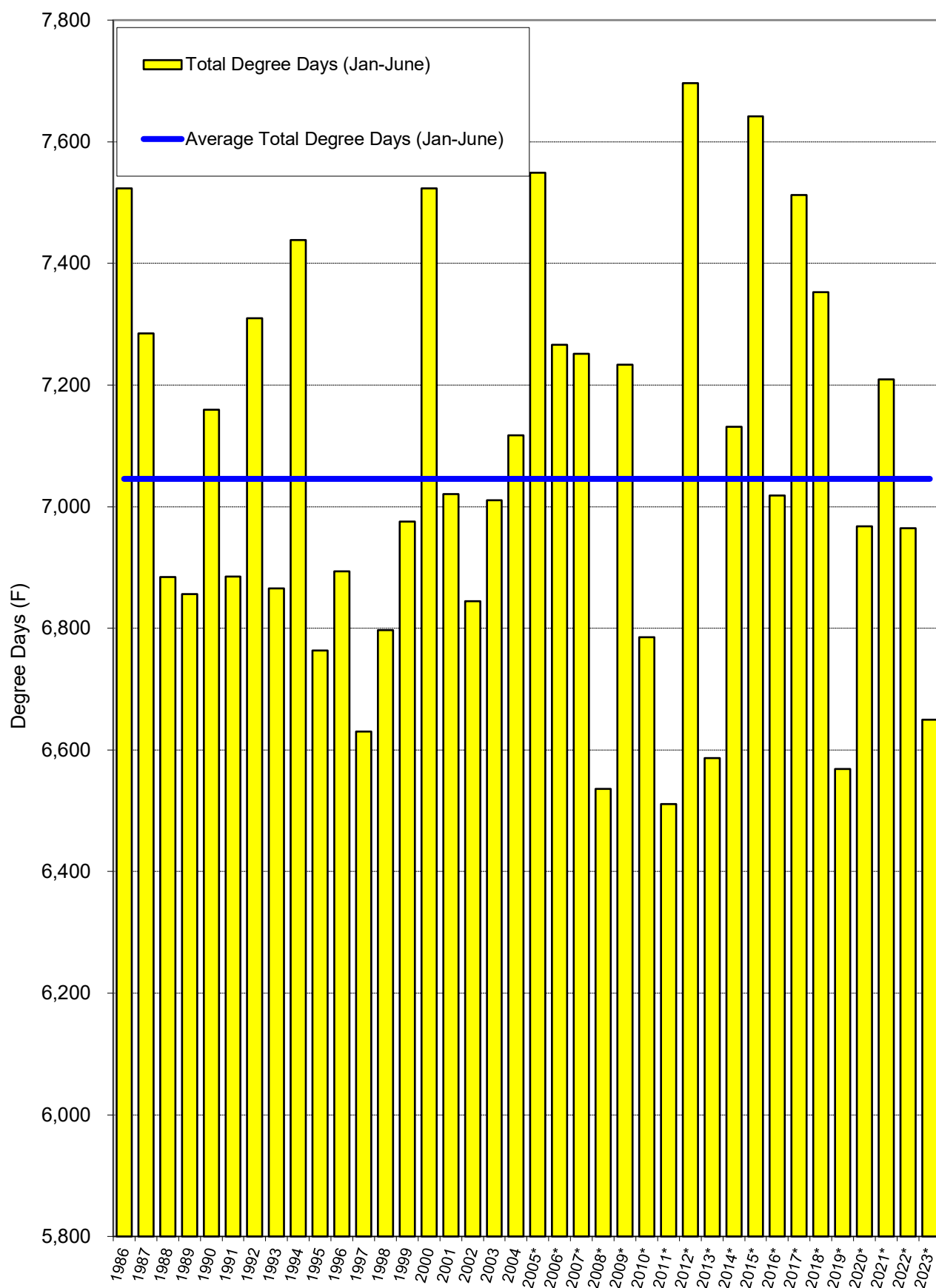


Table E-1. Species Presence Data - All Areas, Interim Monitoring, Seneca 2W Mine, SPL, Routt County, CO - 2022

Species	Synonym	Common	BRB-6	Aspen ERA	Mtn. Brush ERA	Sagebrush ERA	Steep Mtn. Brush ERA	Western Wheat ERA
Native Annual and Biennial Forbs								
<i>Acrolasia</i> sp.	<i>Mentzelia</i> sp.	blazingstar					X	
<i>Androsace septentrionalis</i>		pygmyflower rockjasmine		X				
<i>Chenopodium berlandieri</i>		pitseed goosefoot			X			
<i>Chenopodium leptophyllum</i>		goosefoot		X				
<i>Chenopodium</i> sp.		goosefoot			X			
<i>Cirsium undulatum</i>		wavyleaf thistle				X	X	X
<i>Collinsia parviflora</i>		baby blue-eyes			X	X	X	X
<i>Collomia grandiflora</i>		grand collomia	X	X	X	X		
<i>Collomia linearis</i>		linearleaf collomia		X	X	X	X	X
<i>Cordylanthus ramosus</i>		bushy birdbeak	X			X		X
<i>Descurainia incana</i>	<i>Descurainia richardsonii</i>	Richardson tansymustard		X	X			
<i>Descurainia pinnata</i>		pinnate tansymustard					X	
<i>Dracocephalum parviflorum</i>	<i>Moldavica parviflora</i>	dragonhead	X					
<i>Epilobium brachycarpum</i>		bigfruit willowherb			X	X		X
<i>Erigeron divergens</i>		spreading fleabane	X		X	X	X	X
<i>Galium bifolium</i>		two-leaved bedstraw	X	X	X			
<i>Gentianella amarella</i> ssp. <i>acuta</i>		Autumn dwarf gentian		X				
<i>Grindelia squarrosa</i>		gumweed		X				X
<i>Helianthus annuus</i>		common sunflower	X					
<i>Lepidium densiflorum</i>		denseflower pepperweed						X
<i>Lupinus brevicaulis</i>		shortstem lupine					X	X
<i>Microsteris gracilis</i> ssp. <i>humilis</i>		microsteris	X		X	X	X	X
<i>Navarretia minima</i>	<i>Gilia minima</i>	minimal gilia	X		X			
<i>Plantago elongata</i>		plantain	X					
<i>Polygonum douglasii</i>		Douglas knotweed	X	X	X	X	X	X
<i>Silene antirrhina</i>		sleepy catchfly			X			
Native annual-biennial forb		native annual forb						X
Introduced Annual and Biennial Forbs								
<i>Alyssum alyssoides</i>		alyssum	X			X	X	
<i>Alyssum desertorum</i>		alyssum	X		X	X	X	X
<i>Alyssum parviflorum</i>	<i>A. minus</i>	alyssum	X			X	X	X
<i>Bassia sieversiana</i>	<i>Kochia scoparia</i> , <i>K. sieversiana</i>	burning-bush	X			X		
<i>Camelina microcarpa</i>		littlepod falseflax	X		X	X	X	X
<i>Capsella bursa-pastoris</i>		shepherds purse			X	X		
<i>Carduus nutans</i> ssp. <i>macrolepis</i>		musk thistle	X	X	X	X		
<i>Ceratocephala testiculata</i>	<i>Ranunculus testiculatus</i>	curvseed butterwort				X		X
* <i>Chenopodium album</i>		lamb's quarters		X	X	X		X
* <i>Cirsium vulgare</i>		bull thistle				X		
<i>Cynoglossum officinale</i>		hound's tongue	X	X	X	X	X	X
<i>Descurainia sophia</i>		flixweed tansymustard				X		
<i>Descurainia</i> sp.		tanseymustard				X		
<i>Lactuca serriola</i>		prickly lettuce	X	X	X	X	X	X
<i>Lappula redowskii</i>		early stickseed	X			X		
<i>Lepidium perfoliatum</i>		clasping pepperweed	X			X		
<i>Madia glomerata</i>		tarweed	X			X		
<i>Medicago lupulina</i>		black medic				X		
<i>Melilotus officinalis</i>		yellow sweetclover	X		X	X		

Table E-1. Species Presence Data - All Areas, Interim Monitoring, Seneca 2W Mine, SPL, Routt County, CO - 2022

Species	Synonym	Common	BRB-6	Aspen ERA	Mtn. Brush ERA	Sagebrush ERA	Steep Mtn. Brush ERA	Western Wheat ERA
Introduced Annual and Biennial Forbs (Cont'd)								
<i>Pocilla biloba</i>	<i>Veronica biloba</i>	two-lobe speedwell	X		X	X	X	X
<i>Polygonum arenastrum</i>	<i>Polygonum aviculare</i>	Devil's shoestrings				X		X
<i>Salsola collina</i>		Russian thistle				X		
<i>Scorzonera laciniata</i>	<i>Podospermum laciniatum</i>	false salsify/cutleaf vipergrass				X	X	X
* <i>Sisymbrium altissimum</i>		Jim hill mustard	X		X	X	X	X
<i>Sisymbrium</i> sp.		mustard				X		
<i>Thlaspi arvense</i>		pennycress	X	X	X	X	X	X
<i>Tragopogon dubius</i> ssp. <i>major</i>		salsify	X	X	X	X	X	X
<i>Turritis glabra</i>	<i>Arabis glabra</i>	tower mustard		X	X	X	X	X
<i>Verbascum thapsus</i>		mullein		X		X		
Introduced Annual Grasses								
<i>Bromus arvensis</i>	<i>Bromus japonicus</i>	Japanese brome/field brome	X		X	X	X	X
* <i>Bromus tectorum</i>	<i>Anisantha tectorum</i>	cheatgrass	X			X	X	
* <i>Poa bulbosa</i>		bulbus bluegrass	X				X	X
Native Perennial Forbs								
<i>Achillea millefolium</i>	<i>Achillea lanulosa</i>	Western yarrow	X	X	X	X	X	X
<i>Actaea rubra</i> ssp. <i>Arguta</i>		red baneberry		X				
<i>Agastache urticifolia</i>		nettle-leaf giant hyssop		X	X	X		
<i>Agoseris glauca</i>		false dandelion	X					X
<i>Allium textile</i>		prairie onion	X		X	X	X	X
<i>Antennaria parvifolia</i>		smallleaf pussytoes		X	X			
<i>Aquilegia</i> sp.				X				
<i>Artemisia dracunculus</i>	<i>A. dracunculus</i> ssp. <i>glaucus</i> , <i>Oligosporus dracunculus</i> ssp. <i>glaucus</i>	wild tarragon			X	X		
<i>Artemisia ludoviciana</i>		pasture sage	X				X	
<i>Aster foliaceus</i>		bracted aster		X	X			
<i>Aster</i> sp.		aster					X	
<i>Astragalus bisulcatus</i>		two-groove milkvetch	X				X	X
<i>Astragalus miser</i> var. <i>oblongifolius</i>		weedy milkvetch	X			X	X	X
<i>Balsamorhiza sagittata</i>		arrowleaf balsamroot	X		X	X	X	X
<i>Boechera pulchra</i>		beautiful rockcress				X		
<i>Calochortus nuttallii</i>		nuttall mariposa-lily				X	X	X
<i>Campanula rotundifolia</i>		harebell		X	X			
<i>Castilleja chromosa</i>		desert paintbrush					X	X
<i>Castilleja sulphurea</i>		paintbrush		X				X
<i>Cirsium centaureae</i>		fringed thistle		X		X	X	X
<i>Cirsium eatonii</i>		Eaton thistle	X	X	X	X		
<i>Comandra umbellata</i> ssp. <i>pallida</i>		bastard toadflax			X	X	X	X
<i>Crepis acuminata</i>	<i>Psilochenia acuminata</i>	tapertip hawksbeard				X	X	
<i>Crepis occidentalis</i>	<i>Psilochenia occidentalis</i>	Western hawksbeard					X	X
<i>Delphinium barbeyi</i>		barbey larkspur		X				
<i>Delphinium nuttallianum</i>		larkspur		X				
<i>Drymocallis</i> sp.		cinquefoil		X				
<i>Erigeron eatonii</i> var. <i>eatonii</i>		Eaton fleabane				X	X	
<i>Erigeron engelmannii</i>		Engelmann fleabane		X	X	X		

Table E-1. Species Presence Data - All Areas, Interim Monitoring, Seneca 2W Mine, SPL, Routt County, CO - 2022

Species	Synonym	Common	BRB-6	Aspen ERA	Mtn. Brush ERA	Sagebrush ERA	Steep Mtn. Brush ERA	Western Wheat ERA
Native Perennial Forbs (Cont'd)								
<i>Erigeron formosissimus</i>		pretty daisy		X				
<i>Erigeron speciosus</i>		showy fleabane		X		X		
<i>Eriogonum brevicaulis</i>		shortstem buckwheat					X	
<i>Eriogonum jamesii</i>		wild buckwheat			X	X		X
<i>Eriogonum umbellatum</i>		sulphur flower			X	X	X	X
<i>Galium aparine</i>		goosegrass			X		X	
<i>Galium septentrionale</i>	<i>Galium boreale</i>	northern bedstraw		X	X			
<i>Gaura coccinea</i>		scarlet gaura	X					
<i>Gayophytum diffusum ssp. parviflorum</i>		groundsmoke		X				X
<i>Geranium sp.</i>		geranium			X			
<i>Geranium viscosissimum ssp. nervosum</i>		sticky geranium		X	X			
<i>Helianthella uniflora</i>		one-flower woodsunflower	X		X	X	X	X
<i>Heliomeris multiflora</i>	<i>Gymnolomia multiflora</i>	showy goldeneye	X	X	X	X	X	X
<i>Heracleum sphondylium ssp. montanum</i>		cow parsnip		X				
<i>Heterotheca villosa</i>		golden aster	X			X		
<i>Hydrophyllum fendleri</i>		fendler waterleaf		X				
<i>Lathyrus leucanthus</i>	<i>L. lanszwertii, L. laetivirens</i>	white-flowered peavine		X	X	X	X	
<i>Ligusticum porteri</i>		porter's lovage		X				
<i>Linum lewisii</i>	<i>Adenolinum lewisii</i>	blue flax	X		X	X	X	X
<i>Lithospermum incisum</i>		narrowleaf puccoon					X	
<i>Lithospermum ruderales</i>		wayside gromwell	X			X	X	
<i>Lomatium macrocarpum</i>		bigseed biscuitroot				X	X	X
<i>Lupinus argenteus</i>		silver lupine	X	X	X	X	X	X
<i>Lupinus caudatus</i>		tailcup lupine	X	X	X	X	X	X
<i>Machaeranthera canescens</i>		hoary tansyaster	X		X	X	X	X
<i>Machaeranthera pinnatifida</i>	<i>Haplopappus spinulosus, Xanthisma spinulosum</i>	tansey aster			X			
<i>Maianthemum racemosum</i>		feathery false lily of the valley		X				
<i>Maianthemum racemosum ssp. amplexicaule</i>	<i>M. amplexicaule, Smilacina amplexicaulis</i>	feathery false lily of the valley		X	X			
<i>Maianthemum stellatum</i>	<i>smilacina stellata</i>	few-flowered false solomon's seal		X				
<i>Mertensia ciliata</i>		mountain bluebells		X	X			
<i>Microseris nutans</i>		microseris					X	X
<i>Osmorhiza chilensis</i>		sweet cicely		X	X			
<i>Osmorhiza occidentalis</i>		Western aniseroot		X	X			
<i>Packera multilobata</i>	<i>Senecio multilobatus</i>	multilobe groundsel			X			
<i>Pedicularis bracteosa ssp. Paysoniana</i>		bracted lousewort		X				
<i>Penstemon sp.</i>		penstemon	X			X	X	X
<i>Penstemon strictus</i>		Rocky Mountain penstemon	X			X	X	X
<i>Perideridia gairdneri ssp. borealis</i>		common yampa	X	X	X	X		X
<i>Phlox hoodii ssp. canescens</i>		carpet phlox						X
<i>Phlox longifolia</i>		longleaf phlox	X		X	X	X	X

Table E-1. Species Presence Data - All Areas, Interim Monitoring, Seneca 2W Mine, SPL, Routt County, CO - 2022

Species	Synonym	Common	BRB-6	Aspen ERA	Mtn. Brush ERA	Sagebrush ERA	Steep Mtn. Brush ERA	Western Wheat ERA
Native Perennial Forbs (Cont'd)								
<i>Physaria acutifolia</i>		double bladder-pod					X	X
<i>Potentilla gracilis</i>		northwest cinquefoil		X	X			
<i>Prosartes trachycarpa</i>	<i>Disporum trachycarpum</i>	wartberry fairybells		X				
<i>Pseudostellaria jamesiana</i>	<i>Stellaria jamesiana</i>	James starwort		X	X	X		
<i>Rudbeckia ampla</i>	<i>R. laciniata</i> var. <i>ampla</i>	cutleaf coneflower		X				
<i>Senecio integerrimus</i>		lambstongue groundsel				X	X	X
<i>Senecio multicapitatus</i>	<i>S. spartioides</i> var. <i>multicapitatus</i>	lobeleaf groundsel		X				
<i>Senecio serra</i>		serrate groundsel		X				
<i>Senecio</i> sp.		annual groundsel	X				X	X
<i>Solidago serotinoidea</i>	<i>S. gigantea</i> var. <i>leiophylla</i>	giant goldenrod					X	
<i>Solidago</i> sp.		goldenrod						X
<i>Sphaeralcea coccinea</i>		copper mallow					X	X
<i>Stellaria</i> sp.		chickweed			X			
<i>Stenotus armerioides</i>		stenotus				X	X	X
<i>Symphyotrichum ascendens</i>	<i>Aster ascendens</i>	Pacific aster	X	X	X	X		X
<i>Thalictrum fendleri</i>		Fendler meadowrue		X	X			
<i>Urtica gracilis</i> ssp. <i>gracilis</i>	<i>Urtica dioica</i>	stinging nettle		X				
<i>Valeriana edulis</i>		edible valerian		X	X			
<i>Veratrum tenuipetalum</i>		cornlily		X	X			
<i>Vicia americana</i>		American vetch	X	X	X	X	X	
<i>Viola macloskeyi</i> ssp. <i>Pallens</i>		violet		X				
<i>Viola scopulorum</i>	<i>Viola canadensis</i>	Colorado violet		X				
<i>Viola</i> sp.		violet			X			
<i>Virgulus falcatus</i>	<i>Aster falcatus</i>	falcate aster	X					
<i>Wyethia amplexicaulis</i>		mule's ear	X		X	X	X	X
<i>Zigadenus venosus</i>		deathcamas			X			
Native perennial forb		native perennial forb		X				
Introduced Perennial Forbs								
<i>Astragalus cicer</i>		cicer milkvetch	X					
* <i>Cirsium arvense</i>	<i>Breia arvensis</i>	Canada thistle	X	X				
* <i>Convolvulus arvensis</i>		field bindweed	X					
* <i>Linaria genistifolia</i> ssp. <i>dalmatica</i>	<i>Linaria dalmatica</i>	dalmation toadflax						X
<i>Linum perenne</i>		blue flax						X
<i>Medicago sativa</i>		alfalfa	X	X		X	X	X
<i>Rumex crispus</i>		curly dock	X					
<i>Taraxacum officinale</i>		common dandelion	X	X	X	X		X
Native Perennial Grasses (c)								
<i>Achnatherum hymenoides</i>	<i>Oryzopsis hymenoides</i> , <i>Stipa hymenoides</i>	Indian ricegrass					X	X
<i>Achnatherum lettermanii</i>	<i>Stipa lettermanii</i>	Letterman needlegrass	X		X	X	X	X
<i>Achnatherum nelsonii</i>	<i>Stipa nelsonii</i>	Nelson needlegrass			X	X	X	
<i>Bromelica bulbosa</i>	<i>Melica bulbosa</i>	oniongrass	X		X	X	X	X
<i>Bromopsis porteri</i>	<i>Bromus porteri</i>	nodding brome		X	X			
<i>Bromus carinatus</i> var. <i>marginatus</i>		mountain brome	X	X	X	X		X
<i>Carex geyeri</i>		elk sedge		X	X	X	X	X
<i>Carex</i> sp.		sedge			X	X		X
<i>Elymus elymoides</i>	<i>Sitanion hystrix</i>	bottlebrush squirreltail	X			X	X	X

Table E-1. Species Presence Data - All Areas, Interim Monitoring, Seneca 2W Mine, SPL, Routt County, CO - 2022

Species	Synonym	Common	BRB-6	Aspen ERA	Mtn. Brush ERA	Sagebrush ERA	Steep Mtn. Brush ERA	Western Wheat ERA
Native Perennial Grasses (c) (Cont'd)								
<i>Elymus glaucus</i>		blue wildrye	X	X	X			
<i>Elymus lanceolatus</i> sp. <i>lanceolatus</i>		thickspike wheatgrass	X		X	X		
<i>Elymus lanceolatus</i> fm. <i>albicans</i>	<i>Agropyron dasystachyum</i> , <i>A. albicans</i> , <i>A. riparum</i>	Montana wheatgrass	X			X	X	X
<i>Elymus trachycaulus</i>	<i>Agropyron trachycaulum</i>	slender wheatgrass	X		X	X	X	X
<i>Hesperostipa comata</i>	<i>Stipa comata</i>	needle-and-thread			X	X	X	
<i>Koeleria macrantha</i>	<i>Koeleria cristata</i>	Junegrass	X			X	X	X
<i>Leymus cinereus</i>	<i>Elymus cinereus</i>	basin wildrye	X					
<i>Nassella viridula</i>	<i>Stipa viridula</i>	green needlegrass	X	X	X	X		X
<i>Pascopyrum smithii</i>	<i>Agropyron smithii</i> , <i>Elymus smithii</i>	Western wheatgrass	X	X	X	X	X	X
<i>Poa compressa</i>		Canada bluegrass	X					
<i>Poa pratensis</i> ssp. <i>agassizensis</i>		Agassiz bluegrass		X	X	X	X	X
<i>Poa secunda</i>	<i>P. ampla</i> , <i>P. juncifolia</i>	Sandberg bluegrass	X			X	X	X
<i>Poa secunda</i> ssp. <i>juncifolia</i>	<i>Poa ampla</i> , <i>P. confusa</i> , <i>P. truncata</i>	alkali bluegrass	X		X	X		X
<i>Pseudoroegneria spicata</i> ssp. <i>inermis</i>	<i>Agropyron inerme</i>	beardless bluebunch wheatgrass	X			X		X
<i>Pseudoroegneria spicata</i> ssp. <i>spicata</i>	<i>Agropyron spicatum</i>	bluebunch wheatgrass	X		X	X	X	X
Introduced Perennial Grasses (c)								
<i>Agrostis gigantea</i>	<i>A. alba</i>	redtop	X					
<i>Alopecurus pratensis</i>		meadow foxtail	X					
<i>Bromopsis inermis</i>	<i>Bromus inermis</i>	smooth brome	X	X		X	X	X
<i>Bromus riparius</i>					X	X	X	X
<i>Dactylis glomerata</i>		orchard grass	X	X	X			
<i>Festuca ovina</i>		sheep fescue	X			X	X	X
<i>Phleum pratense</i>		Timothy	X	X		X		
<i>Poa pratensis</i> ssp. <i>pratensis</i>		Kentucky bluegrass	X					
<i>Thinopyrum intermedium</i>	<i>Agropyron intermedium</i>	intermediate wheatgrass	X	X	X	X	X	X
Native Ferns								
<i>Pteridium aquilinum</i> ssp. <i>lanuginosum</i>		bracken fern		X				
Native Sub-Shrubs								
<i>Atriplex confertifolia</i>	<i>Atriplex collina</i>	shadscale saltbush					X	
<i>Gutierrezia sarothrae</i>		snakeweed					X	X
Native Shrubs								
<i>Acer glabrum</i>		Rocky Mountain maple		X				
<i>Amelanchier alnifolia</i>		Saskatoon serviceberry		X	X	X	X	X
<i>Artemisia arbuscula</i> ssp. <i>longiloba</i>	<i>Seriphidium arbusculum</i> ssp. <i>longilobum</i>	alkali sagebrush				X	X	X
<i>Artemisia cana</i>	<i>Seriphidium canum</i>	silver sagebrush	X					
<i>Artemisia tridentata</i>		big sagebrush	X		X	X	X	X
<i>Atriplex canescens</i>		four-winged saltbrush					X	
<i>Cercocarpus montanus</i>		birchleaf mountain mahogany					X	
<i>Chrysothamnus viscidiflorus</i>		Douglas rabbitbrush	X		X	X	X	X
<i>Ericameria nauseosa</i>	<i>Chrysothamnus nauseosus</i>	rubber rabbitbrush	X	X		X	X	

Table E-1. Species Presence Data - All Areas, Interim Monitoring, Seneca 2W Mine, SPL, Routt County, CO - 2022

Species	Synonym	Common	BRB-6	Aspen ERA	Mtn. Brush ERA	Sagebrush ERA	Steep Mtn. Brush ERA	Western Wheat ERA
Native Shrubs (Cont'd)								
<i>Krascheninnikovia lanata</i>	<i>Ceratoides lanata</i>	winterfat						X
<i>Mahonia repens</i>	<i>Berberis repens</i>	Oregon hollygrape		X	X	X	X	X
<i>Padus virginiana ssp. melanocarpa</i>	<i>Prunus virginiana ssp. melanocarpa</i>	chokecherry		X	X	X		
<i>Paxistima myrsinites</i>	<i>Pachistima myrsinites</i>	mountain lover		X				
<i>Purshia tridentata</i>		bitterbrush	X			X	X	
<i>Quercus gambelii</i>		Gambel's oak		X	X	X	X	
<i>Ribes inerme</i>		gooseberry		X				
<i>Rosa sayi</i>	<i>Rosa acicularis ssp. sayi</i>	prickly rose		X				
<i>Rosa woodsii</i>		Wood's rose	X	X	X			
<i>Rubacer parviflorum</i>	<i>Rubus parviflorus</i>	thimbleberry		X				
<i>Symphoricarpos rotundifolius</i>	<i>Symphoricarpos oreophilus</i>	mountain snowberry	X	X	X	X	X	X
Native Trees								
<i>Acer negundo</i>	<i>Negundo aceroides</i>	box elder		X				
<i>Populus tremuloides</i>		quaking aspen		X				
Native Vines								
<i>Atragene occidentalis</i>	<i>Clematis occidentalis</i>	Western blue virginsbower		X				
Native Succulents								
<i>Opuntia polyacantha</i>		pricklypear cactus						X
Bryophytes								
Moss		moss		X				X
Lichens								
Lichen		lichen		X	X		X	X
Fungi								
Mushroom		mushroom		X	X			
Parasites								
<i>Orobanche multiflora</i>		broomrape				X		

Table E-2. Species Presence Data - All Areas, Interim Monitoring, Seneca 2W Mine, SPL, Routt County, CO - 2023

Species	Synonym	Common	BRB-6	Aspen ERA	Mtn. Brush ERA	Sagebrush ERA	Steep Mtn. Brush ERA	Western Wheat ERA
Native Annual and Biennial Forbs								
<i>Androsace septentrionalis</i>		pygmyflower rockjasmine			X			
<i>Chaenactis douglasii</i>		chaenactis					X	
<i>Chenopodium berlandieri</i>		pitseed goosefoot		X				
<i>Chenopodium sp.</i>		goosefoot		X				
<i>Collinsia parviflora</i>		baby blue-eyes	X		X			
<i>Collomia grandiflora</i>		grand collomia	X					
<i>Collomia linearis</i>		linearleaf collomia	X	X	X	X	X	X
<i>Cordylanthus ramosus</i>		bushy birdbeak				X		
<i>Descurainia incana</i>	<i>Descurainia richardsonii</i>	Richardson tansymustard		X				
<i>Descurainia pinnata</i>		pinnate tansymustard			X		X	X
<i>Epilobium brachycarpum</i>		bigfruit willowherb	X	X	X	X		X
<i>Galium bifolium</i>		two-leaved bedstraw		X	X			
<i>Grindelia squarrosa</i>		gumweed	X		X			X
<i>Helianthus annuus</i>		common sunflower	X	X				
<i>Microsteris gracilis ssp. humilis</i>		microsteris			X			X
<i>Polygonum douglasii</i>		Douglas knotweed	X	X	X	X	X	X
<i>Native Annual/Biennial Forb</i>			X					
Introduced Annual and Biennial Forbs								
<i>Alyssum alyssoides</i>		alyssum	X		X	X	X	X
<i>Alyssum desertorum</i>		alyssum	X					X
<i>Alyssum parviflorum</i>	<i>A. minus</i>	alyssum	X			X	X	
<i>Bassia sieversiana</i>	<i>Kochia scoparia, K. sieversiana</i>	burning-bush	X					
<i>Camelina microcarpa</i>		littlepod falseflax					X	
<i>Capsella bursa-pastoris</i>		shepherds purse		X				
* <i>Chenopodium album</i>		lamb's quarters		X	X			
* <i>Cirsium vulgare</i>		bull thistle		X				
<i>Cynoglossum officinale</i>		hound's tongue	X	X	X	X		X
<i>Descurainia sp.</i>		tansymustard		X	X			
<i>Lactuca serriola</i>		prickly lettuce	X	X	X	X	X	X
<i>Lappula redowskii</i>		early stickseed				X		
<i>Lepidium perfoliatum</i>		clasping pepperweed	X					X
<i>Madia glomerata</i>		tarweed	X					X
<i>Medicago lupulina</i>		black medic	X					
<i>Melilotus officinalis</i>		yellow sweetclover	X	X	X			
<i>Pocilla biloba</i>	<i>Veronica biloba</i>	twolobe speedwell	X	X	X	X	X	X
<i>Polygonum arenastrum</i>	<i>Polygonum aviculare</i>	Devil's shoestrings	X					
<i>Scorzonera laciniata</i>	<i>Podospermum laciniatum</i>	false salsify/cutleaf vipergrass	X					X
* <i>Sisymbrium altissimum</i>		Jim hill mustard	X			X	X	X
<i>Sisymbrium sp.</i>		mustard		X	X			
<i>Thlaspi arvense</i>		pennycress	X		X	X		X
<i>Tragopogon dubius ssp. major</i>		salsify	X	X	X	X	X	X
<i>Turritis glabra</i>	<i>Arabis glabra</i>	tower mustard				X		X
Introduced Annual Grasses								
* <i>Bromus arvensis</i>	<i>Bromus japonicus</i>	Japanese brome/field brome	X		X	X	X	X
<i>Bromus tectorum</i>	<i>Anisantha tectorum</i>	cheatgrass			X	X	X	
* <i>Poa bulbosa</i>		bulbus bluegrass	X					

Table E-2. Species Presence Data - All Areas, Interim Monitoring, Seneca 2W Mine, SPL, Routt County, CO - 2023

Species	Synonym	Common	BRB-6	Aspen ERA	Mtn. Brush ERA	Sagebrush ERA	Steep Mtn. Brush ERA	Western Wheat ERA
Native Perennial Forbs								
<i>Achillea millefolium</i>	<i>Achillea lanulosa</i>	Western yarrow	X	X	X	X	X	X
<i>Actaea rubra</i> ssp. <i>arguta</i>		red baneberry		X				
<i>Agastache urticifolia</i>		nettle-leaf giant hyssop		X	X	X		
<i>Agoseris glauca</i>		false dandelion			X	X	X	X
<i>Allium textile</i>		prairie onion	X		X	X	X	X
<i>Antennaria parvifolia</i>		smallleaf pussytoes					X	
<i>Aquilegia</i> sp.		columbine		X				X
<i>Artemisia dracunculus</i>	<i>. dracunculus</i> ssp. <i>glaucus</i> , <i>Oligosporus dracunculus</i> ssp. <i>glaucus</i>	wild tarragon				X		
<i>Artemisia ludoviciana</i>		pasture sage					X	
<i>Aster foliaceus</i>		bracted aster		X				
<i>Aster lanceolatus</i> ssp. <i>hesperius</i>	<i>A. hesperius</i>	aster	X					
<i>Astragalus bisulcatus</i>		two-groove milkvetch						X
<i>Astragalus miser</i> var. <i>oblongifolius</i>		weedy milkvetch	X			X	X	X
<i>Astragalus purshii</i>		pursh milkvetch					X	
<i>Astragalus</i> sp.		milkvetch	X					
<i>Balsamorhiza sagittata</i>		arrowleaf balsamroot	X		X	X	X	X
<i>Calochortus nuttallii</i>		nuttall mariposa-lily	X			X		X
<i>Campanula rotundifolia</i>		harebell		X	X			
<i>Castilleja chromosa</i>		desert paintbrush				X		
<i>Castilleja</i> sp.		Indian paintbrush					X	
<i>Castilleja sulphurea</i>		paintbrush		X				
<i>Cirsium eatonii</i>		Eaton thistle						X
<i>Cirsium</i> sp.		thistle	X	X		X	X	X
<i>Comandra umbellata</i> ssp. <i>pallida</i>		bastard toadflax			X		X	
<i>Crepis occidentalis</i>	<i>Psilochenia occidentalis</i>	Western hawksbeard	X			X	X	X
<i>Delphinium barbeyi</i>		barbey larkspur		X				
<i>Delphinium nuttallianum</i>		larkspur				X		
<i>Erigeron engelmannii</i>		Engelmann fleabane				X	X	
<i>Erigeron</i> sp.		fleabane		X				
<i>Erigeron speciosus</i>		showy fleabane		X	X	X	X	
<i>Eriogonum umbellatum</i>		sulphur flower	X		X	X		X
<i>Galium aparine</i>		goosegrass	X	X	X			
<i>Galium septentrionale</i>	<i>Galium boreale</i>	northern bedstraw		X	X			
<i>Gayophytum diffusum</i> ssp. <i>parviflorum</i>		groundsmoke	X				X	X
<i>Geranium richardsonii</i>		richardson geranium		X		X		
<i>Glycyrrhiza lepidota</i>		wild licorice			X			
<i>Helianthella uniflora</i>		one-flower woodsunflower	X	X	X	X	X	X
<i>Helianthus multiflorus</i>	<i>Gymnolomia multiflora</i>	showy goldeneye	X	X	X	X	X	
<i>Heracleum sphondylium</i> ssp. <i>montanum</i>		cow parsnip		X				
<i>Heterotheca villosa</i>		golden aster	X					
<i>Hydrophyllum fendleri</i>		fendler waterleaf		X				
<i>Lathyrus leucanthus</i>	<i>L. lanszwertii</i> , <i>L. laetivirens</i>	white-flowered peavine		X	X	X	X	

Table E-2. Species Presence Data - All Areas, Interim Monitoring, Seneca 2W Mine, SPL, Routt County, CO - 2023

Species	Synonym	Common	BRB-6	Aspen ERA	Mtn. Brush ERA	Sagebrush ERA	Steep Mtn. Brush ERA	Western Wheat ERA
Native Perennial Forbs (Cont'd)								
<i>Ligusticum porteri</i>		porter's lovage		X				
<i>Linum lewisii</i>	<i>Adenolinum lewisii</i>	blue flax	X		X	X	X	X
<i>Lithospermum ruderale</i>		wayside gromwell			X	X	X	
<i>Lomatium</i> sp.		desertparsley				X		
<i>Lotus corniculatus</i>		bird's-foot trefoil	X					X
<i>Lupinus argenteus</i>		silver lupine	X		X	X	X	
<i>Lupinus caudatus</i>		tailcup lupine		X	X			
<i>Machaeranthera canescens</i>		hoary tansyaster	X		X		X	X
<i>Maianthemum racemosum</i>		feathery false lily of the valley		X	X			
<i>Maianthemum stellatum</i>	<i>Smilacina stellata</i>	few-flowered false solomon's seal		X				
<i>Mentha arvensis</i>		fieldmint		X				
<i>Mertensia ciliata</i>		mountain bluebells		X	X			
<i>Microseris nutans</i>		microseris	X			X		X
<i>Nothocalais</i> sp.		false dandelion	X					
<i>Osmorhiza chilensis</i>		sweet cicely		X	X			
<i>Osmorhiza occidentalis</i>		Western aniseroot		X				
<i>Oxybaphus linearis</i>	<i>Mirabilis linearis</i>	umbrellawort	X					
<i>Packera multilobata</i>	<i>Senecio multilobatus</i>	multilobe groundsel					X	
<i>Pedicularis procera</i>	<i>Pedicularis grayi</i>	gray's lousewort		X				
<i>Penstemon</i> sp.		penstemon	X				X	X
<i>Perideridia gairdneri</i> ssp. <i>borealis</i>		common yampa	X	X	X	X	X	X
<i>Phlox longifolia</i>		longleaf phlox	X		X	X	X	X
<i>Physaria acutifolia</i>		double bladder-pod	X					
<i>Prosartes trachycarpa</i>	<i>Disporum trachycarpum</i>	wartberry fairybells		X				
<i>Pseudostellaria jamesiana</i>	<i>Stellaria jamesiana</i>	James starwort		X	X	X	X	X
<i>Ranunculus</i> sp.		butterwort		X				
<i>Rudbeckia ampla</i>	<i>R. laciniata</i> var. <i>ampla</i>	cutleaf coneflower		X				
<i>Senecio integerrimus</i>		lambstongue groundsel	X		X	X	X	
<i>Stenotus armerioides</i>		stenotus					X	X
<i>Symphyotrichum ascendens</i>	<i>Aster ascendens</i>	Pacific aster	X	X	X	X		X
<i>Thalictrum fendleri</i>		Fendler meadowrue		X	X			
<i>Urtica gracilis</i> ssp. <i>gracilis</i>	<i>Urtica dioica</i>	stinging nettle		X		X		
<i>Valeriana edulis</i>		edible valerian		X		X		
<i>Veratrum tenuipetalum</i>		cornlily		X				
<i>Vicia americana</i>		American vetch	X	X	X	X	X	
<i>Viola scopulorum</i>	<i>Viola canadensis</i>	Colorado violet		X				
<i>Viola</i> sp.		violet		X				
<i>Viola vallicola</i>		plateaus violet		X				
<i>Wyethia amplexicaulis</i>		mule's ear				X		X
Native perennial forb		native perennial forb		X				
Unknown Apiaceae				X				
Introduced Perennial Forbs								
<i>Arabis</i> sp.		rockcress			X		X	X
<i>Astragalus cicer</i>		cicer milkvetch	X					X
* <i>Cirsium arvense</i>	<i>Breca arvensis</i>	Canada thistle	X	X				
* <i>Convolvulus arvensis</i>		field bindweed	X					

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Species	Synonym	Common	BRB-6	Aspen ERA	Mtn. Brush ERA	Sagebrush ERA	Steep Mtn. Brush ERA	Western Wheat ERA
Introduced Perennial Forbs (Cont'd)								
<i>Medicago sativa</i>		alfalfa	X			X		X
<i>Rumex crispus</i>		curly dock	X					
<i>Taraxacum officinale</i>		common dandelion		X				
Native Perennial Grasses (c)								
<i>Achnatherum hymenoides</i>	<i>Oryzopsis hymenoides</i> , <i>Stipa hymenoides</i>	Indian ricegrass					X	
<i>Achnatherum lettermanii</i>	<i>Stipa lettermanii</i>	Letterman needlegrass	X		X	X		X
<i>Achnatherum nelsonii</i>	<i>Stipa nelsonii</i>	Nelson needlegrass		X				
<i>Agrostis scabra</i>		ticklegass	X					
<i>Bromelica bulbosa</i>	<i>Melica bulbosa</i>	oniongrass	X	X	X	X		X
<i>Bromopsis porteri</i>	<i>Bromus porteri</i>	nodding brome		X		X		
<i>Bromus carinatus</i> var. <i>marginatus</i>		mountain brome	X	X	X	X	X	
<i>Bromus ciliatus</i> var. <i>ciliatus</i>	<i>Bromus ciliatus</i> , <i>Bromopsis ciliata</i>	nodding brome		X				
<i>Carex geyeri</i>		elk sedge		X	X	X	X	
<i>Carex</i> sp.		sedge			X	X		
<i>Elymus elymoides</i>	<i>Sitanion hystrix</i>	bottlebrush squirreltail	X		X	X	X	X
<i>Elymus glaucus</i>		blue wildrye		X	X	X		
<i>Elymus lanceolatus</i> sp. <i>lanceolatus</i>		thickspike wheatgrass	X			X	X	
<i>Elymus lanceolatus</i> fm. <i>albicans</i>	<i>Agropyron dasystachyum</i> , <i>A. albicans</i> , <i>A. riparum</i>	Montana wheatgrass					X	
<i>Elymus trachycaulus</i>	<i>Agropyron trachycaulum</i>	slender wheatgrass	X		X	X		X
<i>Hesperostipa comata</i>	<i>Stipa comata</i>	needle-and-thread			X	X	X	
<i>Koeleria macrantha</i>	<i>Koeleria cristata</i>	Junegrass	X			X	X	X
<i>Leymus cinereus</i>	<i>Elymus cinereus</i>	basin wildrye	X					
<i>Nassella viridula</i>	<i>Stipa viridula</i>	green needlegrass	X		X	X	X	X
<i>Pascopyrum smithii</i>	<i>Agropyron smithii</i> , <i>Elymus smithii</i>	Western wheatgrass	X		X	X	X	X
<i>Phalaroides arundinacea</i>	<i>Phalaris arundinacea</i>	reed canarygrass	X					
<i>Poa compressa</i>		Canada bluegrass	X	X				
<i>Poa pratensis</i> ssp. <i>agassizensis</i>		Agassiz bluegrass		X	X	X	X	X
<i>Poa secunda</i>	<i>P. ampla</i> , <i>P. juncifolia</i>	Sandberg bluegrass	X			X	X	X
<i>Poa secunda</i> ssp. <i>juncifolia</i>	<i>Poa ampla</i> , <i>P. confusa</i> , <i>P. truncata</i>	alkali bluegrass					X	
<i>Pseudoroegneria spicata</i> ssp. <i>inermis</i>	<i>Agropyron inerme</i>	beardless bluebunch wheatgrass	X					
<i>Pseudoroegneria spicata</i> ssp. <i>spicata</i>	<i>Agropyron spicatum</i>	bluebunch wheatgrass	X		X	X	X	X
Introduced Perennial Grasses (c)								
<i>Agropyron cristatum</i>	<i>Agropyron desertorum</i>	crested wheatgrass	X					X
<i>Agrostis gigantea</i>	<i>A. alba</i>	redtop		X				
<i>Alopecurus pratensis</i>		meadow foxtail	X					
<i>Bromopsis inermis</i>	<i>Bromus inermis</i>	smooth brome	X	X	X	X		X
<i>Dactylis glomerata</i>		orchard grass	X	X	X	X		
<i>Festuca ovina</i>		sheep fescue	X		X	X	X	X
<i>Phleum pratense</i>		Timothy	X	X	X	X		X
<i>Poa pratensis</i> ssp. <i>pratensis</i>		Kentucky bluegrass	X			X		

Table E-2. Species Presence Data - All Areas, Interim Monitoring, Seneca 2W Mine, SPL, Routt County, CO - 2023

Species	Synonym	Common	BRB-6	Aspen ERA	Mtn. Brush ERA	Sagebrush ERA	Steep Mtn. Brush ERA	Western Wheat ERA
Introduced Perennial Grasses (c) (Cont'd)								
<i>Thinopyrum intermedium</i>	<i>Agropyron intermedium</i>	intermediate wheatgrass	X	X	X	X	X	X
Native Ferns								
<i>Pteridium aquilinum ssp. lanuginosum</i>		bracken fern		X				
Native Sub-Shrubs								
<i>Gutierrezia sarothrae</i>		snakeweed	X				X	
Native Shrubs								
<i>Acer glabrum</i>		Rocky Mountain maple		X				
<i>Amelanchier alnifolia</i>		Saskatoon serviceberry	X	X	X	X	X	X
<i>Artemisia arbuscula ssp. longiloba</i>	<i>Seriphidium arbusculum ssp. longilobum</i>	alkali sagebrush					X	X
<i>Artemisia cana</i>	<i>Seriphidium canum</i>	silver sagebrush	X			X		
<i>Artemisia tridentata</i>		big sagebrush	X		X	X	X	X
<i>Atriplex canescens</i>		four-winged saltbrush					X	
<i>Cercocarpus montanus</i>		birchleaf mountain mahogany					X	
<i>Chrysothamnus viscidiflorus</i>		Douglas rabbitbrush			X	X	X	X
<i>Ericameria nauseosa</i>	<i>Chrysothamnus nauseosus</i>	rubber rabbitbrush	X			X		
<i>Mahonia repens</i>	<i>Berberis repens</i>	Oregon hollygrape		X	X	X	X	
<i>Padus virginiana ssp. melanocarpa</i>	<i>Prunus virginiana ssp. melanocarpa</i>	chokecherry		X	X	X		
<i>Paxistima myrsinites</i>	<i>Pachistima myrsinites</i>	mountain lover		X	X			
<i>Purshia tridentata</i>		bitterbrush	X			X	X	
<i>Quercus gambelii</i>		Gambel's oak		X	X	X	X	
<i>Ribes inerme</i>		gooseberry		X	X			
<i>Rosa woodsii</i>		Wood's rose		X	X	X		
<i>Rubacer parviflorum</i>	<i>Rubus parviflorus</i>	thimbleberry		X				
<i>Shepherdia canadensis</i>		buffaloberry		X				
<i>Symphoricarpos rotundifolius</i>	<i>symphoricarpos oreophilus</i>	mountain snowberry	X	X	X	X	X	X
<i>Native Shrub</i>				X				
Native Trees								
<i>Abies concolor</i>		white fir		X				
<i>Populus tremuloides</i>		quaking aspen		X				
<i>Sorbus scopulina</i>		greene's mountainash		X				
<i>Native Tree</i>		Greene's mountainash		X				
Native Succulents								
<i>Opuntia polyacantha</i>		pricklypear cactus						X
Bryophytes								
<i>Moss</i>		moss	X	X	X			