

Rocky Meadow Plot #4 - 2006

last updated 6/23/08 dwi

	4/28/2006	5/2/2006	5/4/2006	5/6/2006	5/8/2006	5/10/2006
<i>Claytonia lanceolata</i>	12 inches of snow	85% bare		1	11	69
		90% snow, up to 6 incl		1	9	47

Erythronium grandiflorum

snow gone

Mahonia repens

Mertensia fusiformis

Hydrophyllum capitatum

Delphinium nuttallianum

Taraxacum officinale

Androsace septentrionalis

Lathyrus leucanthus

Gayophytum ramosissimum

Potentilla hippiana

Arenaria conjesta

Festuca pratensis (?)

grass, reddish node, inflorescence tighter than *Poa*, larger glumes; like RM6

Poa pratensis

Elymus (Agropyron) trachycaulus - wild rye

Erigeron speciosus

Helianthella quinquenervis

Campanula rotundifolia

Achnatherum (Stipa) lettermanii - needlegrass (long awns)

Polygonum douglasii

Polygonum aviculare

Koeleria macrantha - no obvious awn, inconspicuous anthers, middle of south side of plot

Heterotheca (Chrysopsis) villosa

Total Flowers	0	0	0	2	12	70
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Total without grasses	0	0	0	2	12	70
# species flowering	0	0	0	1	1	1
Total without grasses	0	0	0	1	1	1

Notes: Krehe and Kathy Ritter did counts until 1 June; 1% winter gap

This plot is located in the first meadow that Trail 401 crosses as you l

permanent snow cover began about 12 November 2006, based on the snowmelt date based on temperature and light data from Hobo Pend.

Total number of species flowering =	21	without grasses
Maximum # of flowers on one day =	921	
Maximum # of species in flower =	10	
Maximum H' = .		

Rocky Meadow plot #4

Point #	Plot name	Corner (corner)	Altitude (feet)	Altitude (meters)	Latitude
227	Rocky Meadow	Southeast	9740.397	2968.87	38.962257
228	Rocky Meadow	Southwest	9738.723	2968.36	38.962262
229	Rocky Meadow	Northwest	9739.74	2968.67	38.96228
230	Rocky Meadow	Northeast	9741.138	2969.1	38.962275

5/12/2006	5/14/2006	5/16/2006	5/18/2006	5/20/2006	5/22/2006	5/24/2006	5/26/2006	5/28/2006
321	715	920	648	478	189	114	12	1
216	379		454	383	167	105	12	1
			6	21	13	7	5	
			6	21	13	7	5	
					1	1	1	7
					1	1	1	3
						7	14	12
						2	2	2
								7
								1
								2
								2

322 716 921 656 501 206 133 36 34

322	716	921	656	501	206	133	36	34
1	1	1	2	2	3	4	4	5
1	1	1	2	2	3	4	4	5

her dumps; Patty Coffin did counts 6-10, 16 August; Elizabeth Ziegler did counts 14, 18-24 August and f
head north from the trailhead in Gothic. GPS coordinates below. See metadata file at www.rnbl.org for

temperature and light data from Hobo Pendant data logger
pendant data logger = 26 April 2007

sses
16
921
7

Longitude
106.98703
106.98705
106.98704
106.98702

5/30/2006 6/1/2006 6/3/2006 6/5/2006 6/7/2006 6/9/2006 6/11/2006 6/13/2006 6/15/2006

			some leaves yellowing							
12	14	15	2	1				1		
4	3	3	2	1				1		
13	10	6	2							
2	2	2	2							
X	31	37	33	3						
	4	5	7	1						
6	X	35	40	40	37	30	21	10		
4		14	15	13	13	12	11	6		
	2	3	2	1						
	2	3	1	1						
				1	1	1	2	2		
				1	1	1	2	2		
				8	12	9	5	4		
				6	9	5	3	3		
					X	X	X	X		

a few m to the N, along stream bed

35 62 101 84 60 53 43 33 19

35	62	101	84	60	53	43	33	19
4	5	5	5	6	3	3	4	3
4	5	5	5	6	3	3	4	3

from 28 August to end

Inouye phenology project for additional details.

6/17/2006 6/19/2006 6/21/2006 6/23/2006 6/25/2006 6/27/2006 6/29/2006 7/1/2006 7/3/2006

	8	2							
	6	2							
	2	1							
	1	1							
	2		2						
X	2		1						
				1	1		2	1	4
				1	1		2	1	3
					4	11	35	70	116
					4	10	32	44	60
						2	1	11	
						1	1	3	
								total of 9 stalks in plot	
							3	6	
								5	
								2	
	15	5	3	2	7	15	45	98	122

15	5	3	2	7	13	41	76	122
3	2	1	1	2	2	4	5	2
3	2	1	1	2	1	2	2	2

7/5/2006 7/7/2006 7/9/2006 7/11/2006 7/13/2006 7/15/2006 7/17/2006 7/19/2006 7/21/2006

4	2	6	10	10	19	10	9	6
3	2	6	10	10	16	9	8	6
159	159	77	99	89	98	111	82	30
72	71	53	61	50	49	49	42	18
			7	11	X	5		
	total of 3, 5, 6, 16 stalk		2	3		1		
	2			5				
			1	5	9+?	20	28	26
	most buds frost-killed		1	1	2	2	2	3
				1	1	1	1	1
	rays opening; some of disk frosted			1	1	1	1	1
			X	X	X	X	X	X
					7	11	14	10
					3	2	2	2
					7	15	37	30
					7	15	37	30
					1	9	7	6
					1	9	5	6
						1	5	9
						1	1	1
						2	2	8
						1	1	2
165	166	85	121	127	133	185	185	126

165	164	85	114	111	126	168	166	107
2	3	2	4	6	8	10	9	9
2	2	2	3	4	6	7	7	7

7/23/2006 7/25/2006 7/27/2006 7/29/2006 7/31/2006 8/2/2006 8/4/2006 8/6/2006 8/8/2006

1 2 1
1 1 1

16 8 6 8 10 6 2 2
12 7 6 7 6 2 2 2
32 30 15 12 1 1 1
25 21 10 8 1 1 1

25 16 17 10 1 1 2 2
3 3 3 3 1 1 1 1

X	X	X	X	X	X	X	X	X
	1	4			5	3	6	
	1	1			2	2	3	
14	44	25	32	27	18	12	104	68
14	41	25	29	26	17	12	92	56
2	5	6	3	8	10	2	54	37
2	4	6	3	7	9	2	46	26
21	18							
1	1	total of 21 stalks in plot						
11	11	16	13	21	27	31	37	44
4	3	3	3	3	4	4	4	6
121	133	89	78	68	69	53	205	152

8/10/2006 8/12/2006 8/14/2006 8/16/2006 8/18/2006 8/20/2006 8/22/2006 8/24/2006 8/26/2006

1 3 3
1 1 1

2
1

11 inflorescences frost-killed on the north patch

head was eaten

X

total of 2, 3, 14 stalks in plot

79	38	52	59	89	74	76	96	33
65	36	44	56	77	68	74	90	30
39	8	5	28	19	9	16	6	
29	5	4	24	13	8	15	6	
45	20	20	20	30	32	32	37	22
6	5	4	4	4	5	4	5	5
165	66	77	107	138	115	125	142	58

165	66	77	107	138	115	125	142	58
3	2	2	2	2	2	3	3	3
3	2	2	2	2	2	3	3	3

8/28/2006 8/30/2006 9/1/2006 9/3/2006 9/5/2006 9/7/2006 9/9/2006 9/11/2006 9/14/2006

2	1	1
1	1	1

77	70	36	11		36	32	37	10
69	65	32	11		33	31	36	10
7		6	1		1		8	
7		6	1		1		4	

30	34	31	21	16	15	14	9	4
5	6	5	4	5	4	4	2	2
116	105	74	33	16	52	46	54	14

116	105	74	33	16	52	46	54	14
3	2	3	2	0	2	1	2	1
3	2	3	2	0	2	1	2	1

9/16/2006 9/18/2006 9/20/2006

Length of flowering

	second flowering	
23		<i>Claytonia lanceolata</i>
9		<i>Erythronium grandiflorum</i>
23		<i>Mahonia repens</i>
13		<i>Mertensia fusiformis</i>
11		<i>Hydrophyllum capitatum</i>
23		<i>Delphinium nuttallianum</i>
7		<i>Taraxacum officinale</i>
13	7	<i>Androsace septentrionalis</i>
	11	
15		<i>Lathyrus leucanthus</i>
9		<i>Gayophytum ramosissimum</i>
45		<i>Potentilla hippiana</i>
41		<i>Arenaria conjesta</i>
21		<i>Festuca pratensis</i> (?) grass, reddish node, inflorescenc <i>Poa pratensis</i>
15		
2		<i>Elymus (Agropyron) trachycaulus</i>
31		<i>Erigeron speciosus</i>
9		<i>Helianthella quinquenervis</i>
		<i>Campanula rotundifolia</i>
31		
23		<i>Achnatherum (Stipa) lettermanii</i> -
62		<i>Polygonum douglasii</i>
59		<i>Polygonum aviculare</i>
9		<i>Koeleria macrantha</i> - no obvious :
60		<i>Heterotheca (Chrysopsis) villosa</i>

0 0 0

0	0	0
0	0	0
0	0	0

	maximum number of flowers
	maximum number of stalks or plants
920	flowers
	454 genets
21	flowers
	21 genets
15	flowers
	4 inflorescences
14	flowers
	2 inflorescences
37	flowers
	7 genets
40	flowers
	15 inflorescences
3	capitulae
	3 genets
3	flowers
	2 inflorescences
12	flowers
	9 clusters of flowers
	presence of flowers
19	flowers
	16 inflorescences
159	flowers
	72 inflorescences
11	inflorescences
are tighter than	3 patches
6	inflorescences
5	inflorescences
	2 patches
28	capitulae
	3 patches
1	capitulae
	1 inflorescences
	presence of flowers
14	inflorescences
	3 patches
104	flowers
	92 genets
54	flowers
	46 genets
21	inflorescences
	1 patches
45	capitulae
	6 patches