

Wet Meadow Plot #2 - 2006 last updated 6/23/08 dwi

Date	5/4/2006	5/6/2006	5/8/2006	5/18/2006	5/20/2006	5/22/2006
<i>Carex</i> (not <i>geyeri</i> - <i>stigma</i> s short	7 inches of snow		snow gone	male		1
	50% bare			female	13	29
				both		

Mertensia fusiformis 5

Ranunculus inamoenus 1

Viola praemorsa

Androsace septentrionalis

Taraxacum officinale

Draba aurea

Lonicera involucrata

North of plot

Carex illota?? *microptera*??

Valeriana capitata

Potentilla pulcherrima X *hippiana*

Lupinus amplus

Bromelica (*Melica*) *spectabilis*

Linum lewisii

Phleum commutatum (*alpinum*)

Agoseris aurantiaca

Thalictrum fendleri

Heracleum lanatum

Poa pratensis

Elymus (*Agropyron*) *trachycaulus* - wild rye

Dugaldia hoopsii

Ceratochloa (*Bromus*) *carinatus*

(hairy spikelets)

Achillea millefolium

Ligularia (*Senecio*) *bigelovii*

Oreochrysum (Haplopappus) parryi

Vicia americana

Aster foliaceus

Helianthella quinquinervis

Total Flowers	0	0	0	0	13	30
Total without grasses	0	0	0	0	13	30
# species flowering	0	0	0	0	1	2
Total without grasses	0	0	0	0	1	2

Notes: Krehe and Kathy Ritter did counts until 1 June; no gopher wi

This 2x2-m plot is located in the meadow between County Road 31;

permanent snow cover began about 13 November 2006, based on t
snowmelt date based on temperature and light data from Hobo Pen

Total number of species flowering =	24	without gra
Maximum # of flowers on one day =	8	
Maximum # of species in flower =	133	
Maximum H' = .		

Wet Meadow plot #2

Point #	Plot name	Corner (corn	Altitude (feet)	Altitude (meters)	Latitude
120	Wet Meado	Southeast	9411.271	2868.5	38.955915
121	Wet Meado	Southwest	9411.393	2868.59	38.955914
122	Wet Meado	Northwest	9411.593	2868.65	38.955931
123	Wet Meado	Northeast	9411.708	2868.69	38.955932

5/24/2006	5/26/2006	5/28/2006	5/30/2006	6/1/2006	6/3/2006	6/5/2006	6/7/2006	6/9/2006
1	2	13	1					
2	7	15	2		1	2		
	3	5						
7	5	4	2	X	2			
1	1	1	1		1			
	3	4	4	2	2			
	3	4	4	2	2			
	4	23	20	1				
	3	10	10	1				
	1	17	9	10	11	7	10	12
	1	8	6	4	5	3	5	6
			3	8	3	3	3	5
			3	7	3	3	3	5
					4	14	32	57
					2	5	11	20

missed beginning

3	23	82	39	21	21	26	45	74
3	23	82	39	21	21	26	45	74
2	5	5	6	5	6	4	3	3
2	5	5	6	5	6	4	3	3

nter dump; Patty Coffin did counts 6-12, 16-20 August; Elizabeth Ziegler did counts 14, 22-24 August at
 7 and the East River, west of South Gothic. GPS coordinates below. See metadata file at www.rmbl.c

Temperature and light data from Hobo Pendant data logger
 Pendant data logger = 26 April 2007

sses
19
6
133

Longitude
106.98868
106.98871
106.98871
106.98868

6/11/2006 6/13/2006 6/15/2006 6/17/2006 6/19/2006 6/21/2006 6/23/2006 6/25/2006 6/27/2006

9	8	12	3	3	1			
5	3	6	2	2	1			
4	6							
4	5							
83	96	99	130	97	68	41	32	35
28	31	28	32	26	26	17	19	18
61	X	X	102					

a few done

male

1 done 3 done

female

both

2

20 aborted (frosted?) inflorescences

none flowering

2 2 1 3

2 2 1 3

13 inflorescences, frost-killed (one put out a few flowers) 2 1 1

1 1 1

the only stalk in the plot this year

1 1 1

1 3

1 2

1

1 other dor

some frost-killed inflorescences

96	110	113	133	100	71	46	36	44
96	110	113	133	100	71	45	35	43
3	3	3	3	2	3	4	5	6
3	3	3	3	2	3	3	4	5

and from 28 August to end; don't see any *Delphinium barbeyi* or *Erigeron speciosus*

org for Inouye phenology project for additional details.

6/29/2006 7/1/2006 7/3/2006 7/5/2006 7/7/2006 7/9/2006 7/11/2006 7/13/2006 7/15/2006

a new deer bed in plot

20	13	8	5	4	2		1	1
10	7	6	4	3	2		1	1

5	6	2	11	8	11	10	14	11
5	6	2	9	7	10	7	9	9
1								
1								

9	11	4	6	17	24	9	8	2
2	5	6	4	5	7	5	6	2

2 stalks done, missed flowering total of 3 stalks in plot
1

		2			1		total of 11 stalks in plo	
ie		2			1			

short inflorescence, only about 35 cm tall

	1	1	1	1	1	1	1	1
--	---	---	---	---	---	---	---	---

total of 15 stalks in plot

3	1		1	
---	---	--	---	--

total of 10 stalks in plot

3	3			
---	---	--	--	--

1	1	1	3	5
---	---	---	---	---

1	1	1	1	2
---	---	---	---	---

			1	6
--	--	--	---	---

1 done 3

inflorescen

1

35	31	17	24	37	44	21	29	27
35	31	17	23	31	40	21	27	21
4	4	5	5	7	8	4	7	7
4	4	5	4	5	6	4	5	6

7/17/2006 7/19/2006 7/21/2006 7/23/2006 7/25/2006 7/27/2006 7/29/2006 7/31/2006 8/2/2006

1 1
1 1

7 8 9 7 9 7 3 2 1
5 6 6 7 6 5 2 2 1

1 1 3 12 18 1 10
1 1 3 5 7 1 4

t seeding

5 9 8 10 11 11 8 5 3
2 2 2 2 2 2 2 1 1
5 3 6 total of 7 stalks in plot
4 3 3

ce mostly frost-damaged

1 1 1 1 1 1
1 1 1 1 1 1

1	1	1	1	1	65	67	66
		1	14	37	6	6	6
		1	3	4		2	3
						1	1

3 plants with 2, 6, 8 clumps of leaf

20	24	28	32	36	75	76	77	83
15	21	22	32	36	75	76	77	83
6	7	6	6	5	6	3	5	5
5	6	5	6	5	6	3	5	5

8/4/2006 8/6/2006 8/8/2006 8/10/2006 8/12/2006 8/14/2006 8/16/2006 8/20/2006 8/22/2006

2 3 1
2 2 1

14 raining raining raining 6 1 4 2 2
6 4 1 4 2 2

2 2 2 1
1 1 1 1

54	43	53	32	23	29	4		
5	6	5	5	4	4	2		
3	3							
1	1							

			1	2	7	6	1	5
			1	1	1	1	1	1

ves, but no inflorescences (not even frosted ones)

73	50	58	35	31	37	14	3	7
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73	50	58	35	31	37	14	3	7
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4	4	3	4	3	3	3	2	2
---	---	---	---	---	---	---	---	---

4	4	3	4	3	3	3	2	2
---	---	---	---	---	---	---	---	---

8/24/2006 8/26/2006 8/28/2006 8/30/2006 9/1/2006 9/3/2006 9/5/2006 9/7/2006 9/9/2006

1 1
1 1

1 1 1 1 1 1 1 1 1

4
1

6	2	1	1	1	1	1	1	1
6	2	1	1	1	1	1	1	1
3	2	1	1	1	1	1	1	1
3	2	1	1	1	1	1	1	1

9/11/2006 9/14/2006 9/16/2006 9/18/2006 9/20/2006

Length of flowering		
		second flowering
9		<i>Carex (not</i>
17		
3		
13		<i>Mertensia i</i>
9		<i>Ranunculu.</i>
7		<i>Viola praer.</i>
27		<i>Androsace</i>
15		<i>Taraxacur.</i>
47		<i>Draba aure</i>
7+		<i>Lonicera in</i>
		<i>Carex illota</i>
2+		<i>Valeriana c</i>
51		<i>Potentilla p</i>
7		<i>Lupinus an</i>
		<i>Bromelica</i>
5		<i>Linum lewi.</i>
		<i>Phleum coi</i>
2+		
13+		<i>Agoseris ai</i>
		<i>Thalictrum</i>
		<i>Heracleum</i>
15		<i>Poa praten</i>
7		<i>Elymus (A)</i>
3		<i>Dugaldia h</i>
35		<i>Ceratochlo</i> <i>(hairy sp</i>
		<i>Achillea mi</i>
13	22	
9		<i>Ligularia (S</i>

1

1

25 *Oreochrysi*

7 *Vicia amen*

15 *Aster foliac*

Helianthell

1 1 0 0 0

1 1 0 0 0

1 1 0 0 0

1 1 0 0 0

	maximum number of flowers	maximum number of stalks or plants
<i>geyeri - stigmas shorte</i>	13	inflorescences
	29	inflorescences
	5	inflorescences
<i>fusiformis</i>	7	flowers
		1 genets
<i>s inamoenus</i>	4	flowers
		4 inflorescences
<i>norsa</i>	23	flowers
		10 genets
<i>septentrionalis</i>	17	flowers
		8 genets
<i>officinale</i>	8	capitulae
		7 genets
<i>a</i>	130	flowers
		32 inflorescences
<i>volucrata</i>	102	flowers
<i>microptera??</i>		
	2	inflorescences
<i>capitata</i>		
<i>ulcherrima X hippiana</i>	14	flowers
		10 inflorescences
<i>plus</i>	2	flowers
		1 inflorescences
<i>(Melica) spectabilis</i>	1	inflorescences
<i>sii</i>	24	flowers
		7 inflorescences
<i>mmutatum (alpinum)</i>	1	inflorescences
<i>urantiaca</i>	2	capitulae
		2 genets
<i>fendleri</i>		
<i>lanatum</i>	1	inflorescences
<i>sis</i>	3	inflorescences
<i>gropyron) trachycaulus - wild rye</i>	3	inflorescences
	11	capitulae
<i>oopsii</i>		2 inflorescences
<i>a (Bromus) carinatus</i>	6	inflorescences
<i>ikelets)</i>		4 patches
<i>llefolium.</i>		
<i>Senecio) bigelovii</i>	1	1 inflorescences capitulae

<i>um (Haplopappus) par</i>	67	1 inflorescences capitulae
<i>icana</i>	3	6 inflorescences flowers
<i>aeus</i>	7	1 clusters of flowers capitulae
<i>a quinquinervis</i>		1 inflorescences