

Greenhouse Plot #5 - 2006	last updated 6/23/08 dwi					
	5/4/2006	5/6/2006	5/8/2006	5/14/2006	5/16/2006	5/18/2006
<i>Mertensia fusiformis</i>	95% snow	75% bare	snow gone			2
<i>Carex geyeri</i>						1
<i>Ranunculus inamoenus</i>						
<i>Androsace septentrionalis</i>						
<i>Viola praemorsa</i>						
<i>Taraxacum officinale</i>						
<i>Pseudocymopterus montanus</i>						
<i>Lathyrus leucanthus</i>						
<i>Lupinus prunophyllus</i>						
<i>Potentilla pulcherrima x P. hippiana</i>						
<i>Linum lewisii</i>						
<i>Bromelica (Melica) spectabilis</i>						
<i>Eriogonum subalpinum</i>						
<i>Campanula rotundifolia</i>						
<i>Polygonum douglasii</i>						
<i>Artemisia dracunculus</i>						
<i>Poa pratensis</i>						
<i>Erigeron speciosus</i>						
<i>Achnatherum (Stipa) lettermanii</i> - needlegrass (long awns)						
<i>Achillea millefolium</i>						
Total Flowers	0	0	0	0	0	2
Total flowers without grasses	0	0	0	0	0	2
# species flowering	0	0	0	0	0	1
# species flowering without grass	0	0	0	0	0	1

Notes: Krehe and Kathy Ritter made counts until 1 June; no winter gr

This 2x2-m plot is located in the meadow between County Road 317

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

		without grasses	
Total number of species flowering	19		16
Maximum # of flowers on one day	304		304
Maximum # of species in flower =	7		6
Maximum H' = .			

Greenhouse plot #5

Point #	Plot name	Corner (con	Altitude (feet)	Altitude (meters)	Latitude
141	Greenhouse	Northeast	9406.475	2867.09	38.955571
142	Greenhouse	Southeast	9406.546	2867.12	38.955554
143	Greenhouse	Southwest	9406.578	2867.12	38.955549
144	Greenhouse	Northwest	9406.189	2867.01	38.955566

5/20/2006	5/22/2006	5/24/2006	5/26/2006	5/28/2006	5/30/2006	6/1/2006	6/3/2006	6/5/2006
52	166	145	242	233	93	70	54	13
16	31	31	35	37	31	26	27	7
	3		1					
6	6							
1	3							
		1	8	13	14	6	3	1
		1	7	9	11	6	2	1
		2	22	55	21	10	23	18
		1	4	7	3	4	4	4
			1	3	2			
			1	1	1			
					1		2	2
					1		2	2

59	178	148	274	304	131	86	82	34
59	178	148	274	304	131	86	82	34
2	2	3	5	4	5	3	4	4
2	2	3	5	4	5	3	4	4

opher dumps; Patty Coffin did counts 6-12, 16-20 August; Elizabeth Ziegler did counts 14, 22-24 August
and the East River, west of South Gothic. GPS coordinates below. See metadata file at www.rmb1.org

emperature and light data from Hobo Pendant data logger
ant data logger = 27 April 2007

Longitude
106.98894
106.98893
106.98896
106.98896

6/7/2006 6/9/2006 6/11/2006 6/13/2006 6/15/2006 6/17/2006 6/19/2006 6/21/2006 6/23/2006

4	1							
4	1							
		1		2				
				1				7 aborted (frosted?) inf
2			1					
1			1					
34	30	25	28	21	9	1	1	
4	4	5	7	6	2	1	1	

1	3							
1	3							
seem to have been frost damaged - total of 3 inflorescences								these seem
1								3
	1		3	3		3	1	2
	1		3	2		3	1	2
9 aborted (frosted?) inflorescences								

	1	2	2
	1	2	2
		4	1
		1	1

21

42	35	26	32	27	9	5	8	29
42	35	26	32	27	9	5	8	8
5	4	2	3	3	1	3	4	5
5	4	2	3	3	1	3	4	4

: and from 28 August to end

for Inouye phenology project for additional details

6/25/2006 6/27/2006 6/29/2006 7/1/2006 7/3/2006 7/5/2006 7/7/2006 7/9/2006 7/11/2006

inflorescences

1 to be new inflorescences developed on the same plant that had frosted inflorescences

	4	4	4	4	4	3		
					1			
some aborted buds, apparently killed by frost					1			
		2	2	1		2		1
		2	2	1		1		1
6	7	2	4	8	4	2		5
3	2	2	3	4	1	1		3
		total of 30 stalks in plot						
		5						
		1	2	2	2	2	2	2

15	14	10	11	15	11	4	8	2
10	14	10	11	15	11	4	8	2
3	4	4	4	4	4	2	3	1
2	4	4	4	4	4	2	3	1

7/13/2006 7/15/2006 7/17/2006 7/19/2006 7/21/2006 7/23/2006 7/25/2006 7/27/2006 7/29/2006

5 11 8 7 2
3 4 3 3 1

	1	1							
	1	1							
2		1						1	
1		1						1	
2	2	1							
			1	1	1	1	1	1	3
			1	1	1	1	1	1	3
			3		1	3	5	5	2
			3		1	3	5	5	2
						2	3	3	9
						1	2	2	6

total of 4 stalks in plot

4	3	3	4	6	13	14	17	16
4	3	3	4	6	13	14	17	16
2	2	3	2	2	3	4	5	4
2	2	3	2	2	3	4	5	4

7/31/2006 8/2/2006 8/4/2006 8/6/2006 8/8/2006 8/10/2006 8/12/2006 8/14/2006 8/16/2006

2	4	4	3	2	2	2		
1	2	2	2	1	1	1		

	1		raining	1	raining	1		
	1			1		1		

3	3	2	2	1	1	1		1
2	3	2	2	1	1	1		1
3	8	4	5	19	16	18	45	50
3	8	4	5	16	14	15	39	46
17	39	98	raining	28	21	25	24	19
7	9	10				7	5	8
	2	1	1					
	2	1	1					
	1	1		2	2	2		
	1	1		2	2			
		3	2					
		2	2					

25	58	113	13	53	42	49	69	70
25	56	109	10	53	42	49	69	70
4	7	7	5	6	5	6	2	3
4	6	6	4	6	5	6	2	3

8/20/2006 8/22/2006 8/24/2006 8/26/2006 8/28/2006 8/30/2006 9/1/2006 9/3/2006 9/5/2006

1
1

22	59	35	8	22	36	14	3	2
20	52	31	7	21	34	14	3	2
12	7	2		total inflorescences in plot: $1*6+2*2+3*2+5*2+$				
5	4	1						
	2							

	2	3	3	4	4	2	3	1
	2	3	3					

1 1

35	70	40	11	26	40	16	7	4
35	66	37	8	22	36	14	4	3
3	4	3	2	2	2	2	3	3
3	2	2	1	1	1	1	2	2

9/7/2006 9/9/2006 9/11/2006 9/14/2006 9/16/2006 9/18/2006 9/20/2006

length of file

23

5

3

3

21

29

5

11

2

25

frosted

29

27

3

21

29

64+

14

18

11

10

6

3

3

13

17

11

8

4

3

2

+6*2+8+11

31

21

11

2

1

3

1

1

1

1

12

17

20

12

11

6

3

3

15

19

12

11

6

3

3

3

3

2

2

1

1

1

2

2

2

2

1

1

1

flowering		maximum number of flowers	maximum number of stalks or plants
second flowering	<i>Mertensia fusiformis</i>	242	
			37
	<i>Carex geyeri</i>	3	
5		6	
2		3	
	<i>Ranunculus inamoenus</i>	14	
			11
23	<i>Androsace septentrionalis</i>	55	
			7
	<i>Viola praemorsa</i>	3	
			1
	<i>Taraxacum officinale</i>	3	
			3
	<i>Pseudocymopterus montanus</i>		
13		4	
	<i>Lathyrus leucanthus</i>	3	
			3
	<i>Lupinus prunophyllus</i>		
	<i>Potentilla pulcherrima</i> x <i>P. hippiar</i>	2	
			2
25	<i>Linum lewisii</i>	8	
			4
	<i>Bromelica (Melica) spectabilis</i>		
		21	
	<i>Eriogonum subalpinum</i>		
		2	
	<i>Campanula rotundifolia</i>	3	
			3
	<i>Polygonum douglasii</i>	59	
			52
	<i>Artemisia dracunculus</i>	98	
			10
	<i>Poa pratensis</i>	2	
			2
	<i>Erigeron speciosus</i>	2	
			2
19	<i>Achnatherum (Stipa) lettermanii</i>	4	
			3
	<i>Achillea millefolium</i>		
		1	