

Greenhouse Plot #3 - 2006		last updated 6/17/08 dwi					
		5/4/2006	5/6/2006	5/12/2006	5/14/2006	5/16/2006	5/18/2006
<i>Carex geyeri</i> (?)	male	65% bare	snow gone			2	7
	female						1
	both						3
<i>Mertensia fusiformis</i>							
<i>Viola praemorsa</i>							
<i>Ranunculus inamoenus</i>							
<i>Taraxacum officinale</i>							
<i>Carex sp.</i>							
<i>Thalictrum fendleri</i>							
<i>Agoseris aurantiaca</i>							
<i>Potentilla pulcherrima X hippiana</i>							
<i>Bromelica (Melica) spectabilis</i>							
<i>Trisetum spicatum</i> - lots of short awns; west side							
<i>Poa pratensis</i>							
<i>Elymus (Agropyron) trachycaulus</i> - slender wheatgrass							
<i>Bromopsis pumpelliana</i> (hairy spikelets)							
<i>Achnatherum (Stipa) lettermanii</i> - needlegrass (long awns)							
<i>Achillea millefolium</i>							
<i>Erigeron speciosus</i>							
<i>Heliomeris (Viguiera) multiflora</i>							
Total Flowers		0	0	0	0	2	11
Total flowers without grasses		0	0	0	0	2	11
# species flowering		0	0	0	0	1	1
# species flowering without grass		0	0	0	0	1	1

Notes: Krehe and Kathy Ritter made counts until 1 June; *Frasera* plant o

This 2x2-m plot is located in the meadow between County Road 317 and  
 permanent snow cover began about 12 November 2006, based on temp  
 snowmelt date based on temperature and light data from Hobo Pendant

		without grasses	
Total number of species flowering =	18		12
Maximum # of flowers on one day =	66		66
Maximum # of species in flower =	6		5
Maximum H' = .			

### Greenhouse plot #3

Point #	Plot name	Corner (com)	Altitude (feet)	Altitude (meters)	Latitude
124	Greenhouse	Southeast	9410.662	2868.37	38.955915
125	Greenhouse	Southwest	9410.199	2868.23	38.955914
126	Greenhouse	Northwest	9410.631	2868.36	38.955932
127	Greenhouse	Northeast	9411.011	2868.48	38.955933

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
		1	2					
6	6	1	3	3	1			
3	2			1	1			
7	27	28	47	27	10	2	2	1
3	5	5	8	7	3	2	2	1
	1	2	13	32	21	1		
	1	1	6	14	13	1		
			1		1			
			1		1			
					1	3	2	1
					1	2	2	1
							male	
							female	
							both	

16	36	32	66	63	35	6	4	2
16	36	32	66	63	35	6	4	2
2	3	3	4	3	5	3	2	2
2	3	3	4	3	5	3	2	2

n W side has 12 leaves; no gopher dumps from winter; Patty Coffin did counts 6-12, 16-20 August; Eliza

l the East River, west of South Gothic. GPS coordinates below. See metadata file at [www.rnbl.org](http://www.rnbl.org) for l

erature and light data from Hobo Pendant data logger  
data logger = 18 April 2007

Longitude
106.98877
106.98888
106.98888
106.98877

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

				1					
				1					
1									
1									
				2	5				
1	1	3	5	2	1				total of 14 s
1	1	1		5					
		male							
		female							
				6	11	13	15	12	
						1 done	2 done		

3	2	4	8	18	12	13	15	12
3	2	4	8	18	12	13	15	12
2	1	1	2	2	2	1	1	1
2	1	1	2	2	2	1	1	1

ibeth Ziegler did counts 14, 22-24 August and from 28 August to end

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

stalks OK, 3 aborted (frosted?) inflorescences

1 4 1

14 12 14 12 4 4 3 2  
 1 seed head

total of 4 in plot

4 3 2 5 3 3 7 4 2  
 4 3 2 5 2 2 4 2 2

total of 6 stalks in plot

3 2

1 1 1 1  
 total of 51 stalks in plot

3 10 4 3

total of 14 stalks in polot

4 2

1

21 17 16 17 8 12 26 17 7

18 15 16 17 7 8 11 10 4

3 3 2 2 3 4 6 6 4

2 2 2 2 2 2 3 3 3









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	2 1 1	2 2 2 2	2	2	2	2	2	2	2 1 1 25
2	3	6	8	8	12	17	24	28	
2	3	6	8	8	12	17	24	28	
1	2	3	2	2	2	2	2	2	3
1	2	3	2	2	2	2	2	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

2									
1	1	1	1						
1	1	1	1						
28	27	16	10	9	6	2			
2									
31	28	17	11	9	6	2	0	0	
31	28	17	11	9	6	2	0	0	
3	2	2	2	1	1	1	0	0	
3	2	2	2	1	1	1	0	0	



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

Length of fl

11  
13  
13  
17  
  
11  
19  
  
9  
  
3  
11  
9  
  
25  
  
35  
  
**3**  
**7**  
**19**  
**3**  
**5**  
**7**  
  
25  
29

2+

0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0





owering

	maximum number of flowers	maximum number of stalks or plan
<i>Carex geyeri</i> (?)	7	inflorescences
	6	inflorescences
	3	inflorescences
<i>Mertensia fusiformis</i>	47	flowers
		8 genets
<i>Viola praemorsa</i>	32	flowers
		14 genets
<i>Ranunculus inamoenus</i>	1	flowers
		1 inflorescences
<i>Taraxacum officinale</i>	3	flowers
		2 genets
<i>Carex sp.</i>	5	inflorescences
	5	inflorescences
	5	inflorescences
<i>Thalictrum fendleri</i>		
	15	inflorescences
<i>Agoseris aurantiaca</i>	1	capitulae
<i>Potentilla pulcherrima X hippiana</i>	7	flowers
		5 clusters of flowers
<i>Bromelica (Melica) spectabilis</i>		
	3	inflorescences
<i>Trisetum spicatum</i> - lots of short awns; west side		
	1	inflorescences
<i>Poa pratensis</i>		
	12	inflorescences
<i>Elymus (Agropyron) trachycaulus</i> - slender wheatgrass		
	4	inflorescences
<i>Bromopsis pumpelliana</i>		
(hairy spikelets)	5	inflorescences
<i>Achnatherum (Stipa) lettermanii</i> - needlegrass (long awns)		
	2	inflorescences
<i>Achillea millefolium</i>		
	2	inflorescences
<i>Erigeron speciosus</i>	2	capitulae
		2 clumps
<i>Heliomeris (Viguiera) multiflora</i>	28	capitulae
		2 clumps



its