

Willow - Meadow Interface Plot #1 - 2005

last updated 1/30/06 dwi

	5/21/05	5/22/05	5/24/05	5/26/05	5/28/05	5/30/05	6/1/05	6/3/05	6/5/05	6/7/05	6/9/05
<i>Salix monticola</i>	5% bare	60% bare	snow gone		male catkins		10	48	44	194	29

plant on we

Carex illota?? Microptera??

Thalictrum fendleri

Heuchera parviflora

outside plot, close to road

Delphinium barbeyi

Melica spectabilis

Potentilla pulcherrima

Heracleum lanatum

Geranium richardsoni

Elymus (Agropyron) trachycaulus - slender wheatgrass

Erigeron speciosus

Galium boreale

Artemisia dracunculus

Oreochrysum (Haplopappus) parryi

Achnatherum (Stipa) lettermanii - needlegrass (long awns)

Epilobium angustifolium

Aster foliaceus

Pneumonanthe parryi

Total Flowers	0	0	0	0	0	0	10	48	44	194	29
Total flowers w/o grasses	0	0	0	0	0	0	10	48	44	194	29

# species flowering	0	0	0	0	0	0	1	1	1	1	1
# species flowering w/o grasses	0	0	0	0	0	0	1	1	1	1	1

Notes: Krehe and Kathy Ritter did counts until 1 June; no gopher dumps; Emily Morris did counts on 21 and 23 August, and

This 2x2-m plot is located in the meadow between County Road 317 and the East River, west of South Gothic. GPS coord

	without grasses	
Total number of species flowering	18	15
Maximum # of flowers on one day	389	389
Maximum # of species in flower	8	7
Maximum H' =		

Willow-Meadow Interface plot #1

Point #	Plot name	Corner (corner)	Altitude (feet)	Altitude (meters)	Latitude	Longitude
104	Willow-Me	Southeast	9417.541	2870.47	38.956196	106.98833
105	Willow-Me	Southwest	9417.42	2870.43	38.95619	106.98835
106	Willow-Me	Northwest	9417.722	2870.52	38.956207	106.98836
107	Willow-Me	Northeast	9418.011	2870.61	38.956213	106.98834

frost	6/11/05	6/13/05	6/15/05	6/17/05	6/19/05	6/21/05	6/23/05	6/25/05	6/27/05	6/29/05	7/1/05	7/3/05	7/6/05	7/8/05
	105	145	389	315	46		2							
east side about done, one in middle just starting, one on east side in bud														
male									3				1	
female						1		3	5		1	3	2	
both								1		2	1		1	
							some frost damage			1 male		1	1	X
											2 more in bud			
										2	20		41	44
														X?

105	145	389	315	46	0	3	4	8	3	4	24	46	44
105	145	389	315	46	0	3	4	8	3	4	24	46	44

1	1	1	1	1	0	2	1	1	2	2	3	3	1
1	1	1	1	1	0	2	1	1	2	2	3	3	1

id Rebecca Hewitt remaining counts

linates below. See metadata file at www.rnbl.org for Inouye phenology project for additional details

7/10/05 7/12/05 7/14/05 7/17/05 7/19/05 raining 7/21/05 7/23/05 7/25/05 7/27/05 7/29/05 7/31/05 8/2/05 Patty and Emily did cc 8/5/05 8/7/05

5	7	1	2	1										
X	44	37	38	28	X	23	12	8	3					
13	17	31	23	26	35	37	28	26	17	12	6	2	1	
1	2	2	3	4	5	5	5	5	4	2	1	1	1	
2	2	3												
	1	3	4	3	5	2	4	4	4	2				
	1	3	3	3	5	1	3	3	2	2				
		1	2	2	2	2	2	2	2	2	2	2	1	
		2	2	1		3	1	2						
						2	1	2						

2 total of 2 stalks in plot

a few buds were aborted (frost) 2 24 39 73 90

1 2 6 2 1

1 2 3 4

3 15 53
3 6 5

total of 3 stalks in plot

1 4 8 8
1 1 1

20 71 78 71 61 42 69 47 42 28 42 58 105 158

18 69 75 71 61 42 67 47 42 28 42 57 105 158

3	5	7	6	6	3	6	5	5	5	6	8	7	7
2	4	6	6	6	3	5	5	5	5	6	7	7	7

units through 8/15

Emily did counts 8/23-25

8/9/05	8/11/05	8/13/05	8/15/05	8/17/05	8/19/05	8/21/05	8/23/05	8/25/05	8/27/05	8/29/05	8/30/05	9/4/05	9/6/05
1													
100	60	93	61	X	74	54	19	17	21	8	4	1	1
1	3	3	2	3	3	4	5	5	5	4	4	1	1
7	7	7	7	6	4	3	3	3	3	1	1	1	1
71	67	84	139	52	24	31	35	17	7				
5	4	4	6	5	4	6	6	6	3				
8	7	7	4	5	7								
1	1	1	1	1	1								
		may have		5	4	6	6	3	7	11	5	5	4
				5	4	6	6	3	5	9	4	5	
											1	2 buds	
											1	1	
188	144	194	213	71	116	98	67	44	40	20	11	9	6
188	144	194	213	71	116	98	67	44	40	20	11	9	6

6	5	5	5	5	6	5	5	5	5	3	4	4	3
6	5	5	5	5	6	5	5	5	5	3	4	4	3

9/8/05 9/10/05 9/12/05 9/14/05 9/16/05 9/18/05 9/20/05 9/22/05 9/24/05 9/26/05 9/28/05 9/30/05

1
1

total of 6 stalks flowering in plot

3 1
2 1
2

3 3

4 3 0 0 3 3 0 0 0 0 0 0

4 3 0 0 3 3 0 0 0 0 0 0

2	2	0	0	1	1	0	0	0	0	0	0
2	2	0	0	1	1	0	0	0	0	0	0

Length of flowering

Maximum number

23	<i>Salix monticola</i>	male	389	catkins
2	<i>Carex illota??</i>	Microsp male	3	inflorescences
14		female	5	inflorescences
12		both	2	inflorescences
21	<i>Thalictrum fendleri</i>	male	7	flowers
29	<i>Heuchera parviflora</i>		44	flowers
29	<i>Delphinium barbeyi</i>		37	flowers 5 genets
5	<i>Melica spectabilis</i>		3	inflorescences
20	<i>Potentilla pulcherrima</i>		5	flowers 5 clusters of flowers
	<i>Heracleum lanatum</i>			
27				2 inflorescences
14	<i>Geranium richardsoni</i>		3	flowers 2 genets
2	<i>Elymus (Agropyron) trachycaulu</i>		2	inflorescences
42	<i>Erigeron speciosus</i>		100	capitula 6 genets
38	<i>Galium boreale</i>		3	flowers genets
28	<i>Artemisia dracunculus</i>		7	inflorescences
26	<i>Oreochrysum (Haplopappus) par</i>		139	capitula 6 genets
2	<i>Achnatherum (Stipa) lettermanii</i>		1	inflorescences
18	<i>Epilobium angustifolium</i>		8	flowers 1 genets
25	<i>Aster foliaceus</i>		11	capitula
20	<i>Pneumonanthe parryi</i>		3	9 genets flowers 1 genets