



*Aster foliaceus*

*Achnatherum (Stipa) lettermanii* - needlegrass (long awns)

*Helianthella quinquinervis*

Total Flowers	0	0	0	0	0	0	0	0	0	1
Total flowers without grasses	0	0	0	0	0	0	0	0	0	1
# species flowering	0	0	0	0	0	0	0	0	0	1
# species flowering without grasses	0	0	0	0	0	0	0	0	0	1

Notes: Krehe and Kathy Ritter did counts until 1 June; 0.5% gopher winter dump; Emily Morris did counts on 21 an

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

		without grasses	
Total number of species flowering =	22		18
Maximum # of flowers on one day =	217		202
Maximum # of species in flower =	7		7
Maximum H' = .			

		frost														
		6/9/05	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	
		3	4	4	8	5	2	3		2	5	2	2	3		
		2	3	4	6	4	2	3		2	3	2	2	3		
		4	1	2	2	3	2									
		1	1	1	1	1	1									
			1	1	4	9	12	10	14	8	1					
			1	1	4	7	9	6	9	8	1					
				7	36	30	2	2	1							
				6	12	11	1	2	1							
					8	16	14	22	29	31	10	27	21	11		
					6	4	6	5	13	11	6	6	5	2		
							1	1	1	1	1	1	1	1	1	
								4	5	19	68	91	101	104	80	
								1	2	7	20	24	28	33	29	
							male				5 aborted inflorescences					
							female						1		1	
							both		1				1			
													3	49	60	
													1	10	8	
													1			
													1			
															1	
															1	

*Distegia (Lonicera) involucrata* about peak flowering nearby

7	6	14	58	63	33	42	51	61	85	121	131	168	143
7	6	14	58	63	33	42	51	61	85	121	131	168	143
2	3	4	5	5	6	6	6	5	5	4	7	5	5
2	3	4	5	5	6	6	6	5	5	4	7	5	5

id 23 August, and Rebecca Hewitt remaining counts

'S coordinates below. See metadata file at [www.rnbl.org](http://www.rnbl.org) for Inouye phenology project for additional details

7/8/05	7/10/05	7/12/05	7/14/05	7/17/05	7/19/05	7/21/05	7/23/05	7/25/05	7/27/05	7/29/05	7/31/05	8/2/05	8/5/05	Patty and E
		1	1											
		1	1											
1	1	1	1											
50	40	23	9	11	2									
23	20	11	6	9	2									
35	15													
6	3													
4	22	25	33	34	33	20	94	36	52	18	25	38	58	
4	21	22	27	25	27	17	57	27	36	16	19	25	40	
	1													
			Lonicera still flowering											
			14	35	40	35	93	59	1	43	3	40	3	
			5	8	6	7	12	11	1	8	2	35		
				3	3	4	9	13	7	9				total of 29 :
					4	1	4	9						total of 1*6
							3	6						
					3		15							total of 1+5
							7							
							2	2	5	2	1		3	
							1	2		2	1			
									1	2	2	3	5	
									1	1	12	33	58	
									1	1	4	11	14	
											1	1	3	
											1	1	1	

at least one stalk, may

aborted (frost killed) buds: 1, 3, 6 stalks

90	79	50	58	83	85	60	217	119	67	75	44	115	130
90	78	50	58	80	75	55	189	97	60	66	44	115	130
4	5	4	5	4	6	4	6	5	6	6	6	5	6
4	4	4	5	3	3	2	3	3	5	5	6	5	6



1	1	2	2	1
1	1	2	2	1

/be 3, but either missed flowering or they didn't flower

188	93	137	196	202	138	92	70	67	34	53	23	19	18
188	93	137	196	202	138	92	70	67	34	53	23	19	18
6	6	5	5	5	4	4	4	3	2	3	3	3	3
6	6	5	5	5	4	4	4	3	2	3	3	3	3



9/6/05 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

16 14 14 11 11 7 7 3 3 3 1 1 1



Length of flowering		Maximum number	
	second flowering		
38	<i>Ranunculus inamoenus</i>	8	flowers 6 genets
11	<i>Mertensia fusiformis</i>	4	flowers 1 genets
17	<i>Taraxacum officinale</i>	14	capitula 9 genets
11	<i>Viola praemorsa</i>	36	flowers 12 genets
19	<i>Androsace septentrionalis</i>	31	flowers 13 genets
	<i>Valeriana capitata</i>		
26		1	inflorescences
29	<i>Draba aurea</i>	104	flowers 33 genets
	<i>Carex (not geyeri - sti male</i>		
7	female	1	inflorescences
2	2 both	1	inflorescences
10	<i>Lupinus argenteus</i>	60	flowers 10 genets
2	<i>Agoseris aurantiaca</i>	1	capitula 1 genets
53	<i>Potentilla pulcherrima X hippiana</i>	94	flowers 57 clusters of flowers
2	<i>Bromelica (Melica) spectabilis</i>	1	inflorescences
37	<i>Linum lewisii</i>	93	flowers 35 genets
	<i>Poa pratensis</i>		
13		13	inflorescences
7	<i>Ceratochloa (Bromus) carinata</i> (smooth brome)	9	inflorescences 6 clumps(genets)
5	<i>Elymus (Agropyron) trachycaulu</i>	15	inflorescences 7 clumps(genets)
18	<i>Vicia americana</i>	5	flowers 2 clusters of flowers
66	<i>Achillea millefolium</i>	16	inflorescences
40	<i>Oreochrysum (Haplopappus) pai</i>	179	capitula 17 genets
16	<i>Ligularia (Senecio) bigelovii</i>	3	capitula 1 genets

15

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2

capitula

2 genets

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