

Stream plot #10 - 2006 last updated 6/23/08 dwi  
 4/28/2006 5/24/2006 5/26/2006 5/28/2006 5/30/2006 6/1/2006

*Taraxacum officinale* snow gone 2 3 4 2  
 2 3 4 2

*Carex aurea* (?) male 8+ 5  
 female 6+ 5  
 both 8

*Salix wolfii* (?) female; stem starts in plot, goes outside on N edge 15 catkins c  
*Betula glan*  
 within 1 me  
 below plot

*Dodecatheon pulchellum*

*Pedicularis bracteosa*

*Castilleja sulphurea* - about a meter downhill from plot

*Cardamine cordifolia*

*Carex* sp. (*nigricans*? - black perigynia)

*Valeriana edulis*

*Viola adunc*  
 flower stalk

*Salix brachycarpa* (?) South side

grass - very short *Poa* ?

*Limnorchis* (*Habenaria*) *hyperborea*

*Carex* sp. (*viridula*? - short, 3 spikes, green, small perigynia)

*Oxypolis fendleri*

*Geum triflorum*

*Potentilla fruticosa*

*Stellaria longifolia*

*Erythrocoma triflora*

*Poa pratensis*

*Anticlea* (*Zygadenus*) *elegans*

*Cirsium* - yellow flowered, common in townsite  
 outside plot about 2 m

*Swertia perennis*

*Aconitum columbianum*

*Ligularia* (*Senecio*) *bigelovii*

*Gentianopsis thermalis*

*Aster foliaceus*

*Carex* - tall, short brown head

Total Flowers	0	0	2	3	22	2
Total flowers without grasses	0	0	2	3	22	2
# species in flower	0	0	1	2	2	1
# species in flower without grass	0	0	1	2	2	1

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

This 2x2-m plot is located in the stream bed between Treasury and Ric

permanent snow cover began about 28 November 2006, based on tem  
snowmelt date based on temperature and light data from Hobo Pendan

		without grasses
Total number of species flowering =	19	17
Maximum # of flowers on one day =	337	337
Maximum # of species in flower =	9	8
Maximum H' = .		

#### Stream plot #10

Point #	Plot name	Corner (com	Altitude (feet)	Altitude (meters)	Latitude
100	Stream plot	Northwest	9477.987	2888.89	38.959168
101	Stream plot	Northeast	9479.319	2889.3	38.959184
102	Stream plot	Southwest	9477.576	2888.77	38.95916
103	Stream plot	Southeast	9479.491	2889.35	38.959176

6/3/2006	6/5/2006	6/7/2006	6/9/2006	6/11/2006	6/13/2006	6/15/2006	6/17/2006	6/19/2006
4	1	2		2	2			
4	1	2		2	2			

about 17 plants total, in southwest corner

done

*dulosa* female in full bloom below Treasury cabin

date	6/3/2006	6/5/2006	6/7/2006	6/9/2006	6/11/2006	6/13/2006	6/15/2006	6/17/2006	6/19/2006
after,	3	3	4	2	2	1 in plot			1
	2	2	3	2	2	1			1
		7	9	10	14	17	14		6
		2	2	2	2	2	2		2
		1	3	4	7	7	7		5
		1	1	1	2	2	2		2
			4	11	14	13	15		15
			1	2	2	2	3		3

about 20 plants total, east side, mostly to south, a few also on northwest side

taller, about 5-10 inches

ca flowering about peak below Treasury

was eaten (probably by deer)

male 12  
some catkins done, may have missed earlier

don't see the other

2	1	1	1
	19	20	46
	3	3	9

fruiting - missed flowering

3

missed flow  
caught first

1  
1  
1  
1

*Agoseris aurantiaca* flowering nearby

4	1	9	13	23	44	50	50	73
4	1	9	13	23	42	49	49	72
1	1	2	2	3	5	4	4	7
1	1	2	2	3	4	3	3	6

s; Patty Coffin did counts 6-10, 16-20 August; Elizabeth Ziegler did counts 14 August and from 22 Augu:

hards cabins. GPS coordinates below. See metadata file at [www.rmbl.org](http://www.rmbl.org) for Inouye phenology project

perature and light data from Hobo Pendant data logger

it data logger = 3 April 2007

Longitude
106.98703
106.98702
106.98701
106.987



93	124	163	216	207	210	222	239	248
93	124	163	215	206	210	222	239	248
6	6	7	9	9	7	6	6	5
6	6	7	8	8	7	6	6	5

st to end

for additional details.



1  
1  
2  
2  
1  
1

203	143	127	115	121	139	184	233	241
203	143	127	115	121	139	184	233	241
5	6	6	6	5	5	5	6	8
5	6	6	6	5	5	5	6	8



DWI counte

7/27/2006 7/29/2006 7/31/2006 8/2/2006 8/4/2006 8/6/2006 8/8/2006 8/10/2006 8/12/2006

seed

7 8 1  
2 2 1

stream still

82 90 74 67 77 62 71 51 16

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

1 1  
1 1  
159 218 216 180 101 95 45 35 23  
48 58 51 43 32 32 19 18 12  
28 18 9 9 5 5 6 2  
13 10 6 5 2 2 4 1  
4 4 4 2

2	2	2	2					
3	4	8	7	2	20	22	24	closed
3	4	7	4	1	12	13	8	
1	1	1			1	1	1	
1	1	1			1	1	1	
								2
282	337	317	268	186	181	146	118	44
282	337	317	268	186	181	146	118	44
8	8	8	7	5	5	6	6	5
8	8	8	7	5	5	6	6	5

ad

8/14/2006 8/16/2006 8/18/2006 8/20/2006 8/22/2006 8/24/2006 8/26/2006 8/28/2006 8/30/2006

running

31 13 14 7 6 3 1

28 closed 3  
9 3  
2 2  
1 1

9	8	7	1	2	2	1	2	1
3	6	3	1	1	1	1	2	1
			1	1	1			
			1	1	1			
2	2	2	2	2	2	2		
72	25	26	11	11	8	4	2	1
72	25	26	11	11	8	4	2	1
5	4	4	4	4	4	3	1	1
5	4	4	4	4	4	3	1	1

9/1/2006 9/3/2006 9/5/2006 9/7/2006 9/9/2006 9/11/2006 9/14/2006 9/16/2006 9/18/2006

1	1	1
1	1	1

1	1	1	0	0	0	0	0	0
1	1	1	0	0	0	0	0	0
1	1	1	0	0	0	0	0	0
1	1	1	0	0	0	0	0	0

9/20/2006

Length of flowering		Maximum number	
19	<i>Taraxacum officinale</i>	4	
3+	<i>Carex aurea</i> (?)	5	4
3+		5	
2		8	
missed it	<i>Salix wolfii</i> (?)		
33	<i>Dodecatheon pulchellum</i>	4	
29	<i>Pedicularis bracteosa</i>	17	3
55	<i>Castilleja sulphurea</i> - about a met	14	2
21	<i>Cardamine cordifolia</i>	15	2
missed it	<i>Carex sp. (nigricans? - black perigynia)</i>		3
eaten	<i>Valeriana edulis</i>		
2+	<i>Salix brachycarpa</i> (?) South side	12	
	grass - very short <i>Poa</i> ?		
7		2	
31	<i>Limnorchis (Habenaria) hyperbor</i>	198	
	<i>Carex sp. (viridula? - short, 3 spikes, green, small perigy</i>		16
69	<i>Oxypolis fendleri</i>	90	
	<i>Geum triflorum</i>	2	
55	<i>Potentilla fruticosa</i>	17	1
45	<i>Stellaria longifolia</i>	4	3
7	<i>Erythrocoma triflora</i>	2	4
	<i>Poa pratensis</i>		
3		1	
23	<i>Anticlea (Zygadenus) elegans</i>	14	
23	<i>Cirsium</i> - yellow flowered, commo outside plot about 2 m	3	1
43	<i>Swertia perennis</i>	218	
37	<i>Aconitum columbianum</i>	57	58
11	<i>Ligularia (Senecio) bigelovii</i>	4	15

43	<i>Gentianopsis thermalis</i>	24	2
31	<i>Aster foliaceus</i>	1	13
15	<i>Carex</i> - tall, short brown head	2	

0

0

0

0



flowers  
genets  
inflorescences  
inflorescences  
inflorescences

flowers  
inflorescences  
flowers  
inflorescences  
flowers

flowers  
genets

catkins

inflorescences

flowers  
genets  
nia)

inflorescences

flowers  
genets  
flowers  
shrubs  
flowers  
genets  
flowers

inflorescences  
flowers  
inflorescences  
flowers  
genets  
flowers  
inflorescences  
flowers  
inflorescences  
capitulae

inflorescences  
flowers  
genets  
capitulae

inflorescences