

Imp

-7/7/16

Date: 7.6.16 Locality: BOST Locality code: _____Latitude: _____ Longitude: _____ Start/End time: 11:00 / 1:20Elevation: _____ Weather: clear Temp: 85°

#	Bombus Sp.	Caste	Host Plant	Notes
1	Vag		RC	
2	Imp	Queen	RC	
3	* Imp	Queen	RC	
4	* Bor		RC	
5	Bor		RC	
6	Bor		RC	
7	Bimal		RC	
8	Bimal		RC	
9	Bimal		RC	
10	Imp		RC	
11	Ferry		RC	
12	Bor		RC	
13	Imp	Queen	RC	
14	Imp	Q	RC	
15	Bimal		RC	
16	* Bimal		RC	
17	* Bimal		RC	
18	Bor		RC	
19	Bimal		RC	
20	Imp	Q	grass, still	Silk?

* = Greer caught (do not include in 1 hr. sampling for Alex & Sam)

bimacs-13

1 hr.
30 min Sam
20 min Alex

#	Bombus Sp.	Caste	Host Plant	Notes
21	Bimar		RC	
22	Imp.		RC	
23	Bimar		RC	
24	Bimar		RC	
25	Bimar		RC	
26	Vag		RC	
27	Vag		RC	
28	Imp.		RC	
29	Bimar		RC	
30	bimar		RC	
31	Imp.		RC	
32	Vag		RC	
33	bos bimar		RC	
34	bimar		RC	
35	Imp		RC	
36	bimar		RC	
37	vag		RC	
38	Imp		RC	
39	Vag		SSW	
40	bimar		SSW	

7:45 AM

7/7/16

cloudy

66°F

Finish
9:15 AM

||||

HB COLLECTED? _____ # _____

Date: 7/6/16 Locality: Mudge Locality code: _____

Latitude: _____ Longitude: _____ Start/End time: 4:02 / 5:24

Elevation: _____ Weather: pt. cloudy Temp: _____

#	Bombus Sp.	Caste	Host Plant	Notes
1	Bimac		CV	
2	Bimac		CV	
3	Imp		CV	
4	Imp.		CV	
5	Imp		CV	
6	Imp		CV	
7	Imp		CV	
8	Imp		CV	
9	gris		CV	
10	Ter		CV	
11	Imp		CV	
12	gris			
13	gris			
14	vag			
15	bimac			
16	bimac			
17	bimac			
18	bimac			
19	bimac			
20	vag			

terricola!

1 hr. Sam & Alex
30 min Sam & Alex

bimac ~~TH~~ 11

Imp ~~TH~~ 11

#	Bombus Sp.	Caste	Host Plant	Notes
21	Imp		CV	Sam
22	Bimac		CV	
23	Bimac		CV	
24	Bimac		CV	
25	Bimac		CV	
26	Bimac		CV	
27	Bimac		CV	
28	Imp		CV	
29	Imp		CV	
30	Imp		CV	
31				
32				
33				
34				
35				
36				
37				
38				
39				
30				

HB COLLECTED? _____ # _____

Date: 7.6.16 Locality: FLAN Locality code: _____

Latitude: _____ Longitude: _____ Start/End time: 9:25 / 19:40

Elevation: _____ Weather: clear Temp: 80°

#	Bombus Sp.	Caste	Host Plant	Notes
1	bimac		Crownvetch (cv)	
2	bimac		CV	
3	Imp.		CV	
4	Buc.		STW	- Saint phis wart
5	Imp		STW	
6	Imp		STW	
7	Imp		STW	
8	Bimal		STW	
9	bimac		SSW	
10	Imp		SSW	
11	bimac		SSW	
12	Imp		SSW	long hair, darker yellow
13	bimal ?		SSW	
14	Imp		SSW	
15	Imp			
16	Imp			
17	Imp		Chick	
18	Imp		Chick	
19	Imp		Chick	
20	Imp		Chick	



#	<i>Bombus</i> Sp.	Caste	Host Plant	Notes
21	Bimal		STW	
22	Imp		STW	
23	Imp		STW	
24	Imp		STW	
25	Imp		STW	
26	Bimal		STW	
27	Ter		CV	
28	Bimal		CV	
29	Bimal		CV	
30	Bimal		CV	
31	Bimal		CV	
32	Bimal		STW	
33	Imp		CV	
34	Imp		CV	
35	Imp		CV	
36	Imp		CV	
37	Imp		CV	
38	Imp		CV	
39	Imp		STW	
40	Imp		STW	

HB COLLECTED? _____ # _____

ferricola !

Date: 7/7/16 Locality: Col Locality code: _____

Latitude: _____ Longitude: _____ Start/End time: 8:40 / _____

Elevation: _____ Weather: hazy, cloudy Temp: _____

7/7/16

#	Bombus Sp.	Caste	Host Plant	Notes
1	Bor		etch	
2	Tern		Rc	
3	Bor		Rc	
4	Bor		Rc	
5	Bor		Rc	
6	Bor		Rc	
7	Bor		Rc	
8	Imp		Rc	
9	Imp		Rc	
10	Bimac		Rc	
11	Imp		RC white C	
12	Bor		Rc	
13	Bor		Rc	
14	Bor		Rc	
15	Bor	Queen	Rc	
16	Imp		Rc	
17	Bimac		Rc	
18	Bor		Rc	
19	Bimac		Rc	
20	Bimac		Rc	

Imp - III
Bimac - III

- Queens present
- Saw griseocollis
- brought her back to W. nose, - allergy?

7/7/16

#	<i>Bombus</i> Sp.	Caste	Host Plant	Notes
21	Imp	worker	RC	
22	Imp		RC	
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
30				

HB COLLECTED? _____ **#** _____

Imp: IIII IIII IIII

Date: 8.4.16 Locality: CIND Locality code: _____

Latitude: _____ Longitude: _____ Start/End time: 10:17 / _____

Elevation: _____ Weather: _____ Temp: _____

am & Alex
30min each
= 1 hour

#	Bombus Sp.	Caste	Host Plant	Notes
1	Imp	w	WC	
2	Imp	w	WC	
3	Imp	w	WC	
4	Imp	w	WC	
5	Imp	w	WC	
6	ter	w	WC	
7	Imp	w	WC	
8	Imp	w	WC	
9	ter	w	WC	
10	ter	w	WC	
11	ter	w	WC	
12	ter	w	WC	
13	Imp	w	WC	
14	Immac	w	WC	
15	Imp	w	WC	
16	Imp	w	WC	
17	Bivore	w	WC	
18	Imp	w	WC	
19	Imp	w	WC	
20	Var	w	WC	

*Teresa Weber Spotted

#	<i>Bombus</i> Sp.	Caste	Host Plant	Notes
21	Imp	w	wc	
22	Imp	w	wc	
23	Imp	w	wc	
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
30				

HB COLLECTED? _____ # _____

8-4-16

Date: 8-3-16 Locality: mudgr Locality code: _____

Latitude: _____ Longitude: _____ Start/End time: _____/_____

Elevation: _____ Weather: cloudy Temp: _____

#	Bombus Sp.	Caste	Host Plant	Notes
1	vag		SW Saint	phn's West
2	Imp		SW	
3	Imp		SW	
4	imp		CV crown vetch	
5	Imp		CV	
6	Imp		CV	
7	Imp		CV	
8	Imp		SW	
9	Imp		SW	
10	Vag		CV	
11	ter		CV	
12	ter		CV	
13	ter		CV	
14	ter		JPW Joe Pye weed	
15	ter		SW	
16	vag	W	CV	
17	vag	W	CV	
18	vag	W	CV	
19	Ter	W	CV	
20	Ter	W	CV	

Imp: ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ (20)

#	Bombus Sp.	Caste	Host Plant	Notes
21	Ter	W	CV	
22	Imp	W	CV	
23	Imp	W	CV	
24	Imp	W	CV	
25	Imp	W	CV	
26	Imp	W	CV	
27	Imp	W	CV	
28	Imp	W	CV	
29	Imp	W	CV	
30	Imp	W	CV	
31	Vag	W	CV	
32	ter	W	CV	
33	Imp	SW	SW	
34	Imp	SW	SW	
35	Imp	SW	SW	
36				
37				
38				
39				
30				

HB COLLECTED? _____ # _____

Date: 8/3/16 Locality: FLAN Locality code: FLAN

Latitude: _____ Longitude: _____ Start/End time: 3:35 / _____

Elevation: _____ Weather: pt cloudy Temp: Fucking Hot & cute!

#	<i>Bombus</i> Sp.	Caste	Host Plant	Notes
1	Imp	w	CV	
2	Imp	w	CV	
3	Imp	w	CV	
4	Imp	v	CV	
5	Imp	w	CV	
6	Imp	w	CV	
7	Imp	w	CV	
8	Imp	w	CV	
9	Imp	w	CV	
10	Imp	w	CV	
11	Imp	w	CV	
12	Imp	w	CV	
13	Imp	w	CV	
14	Imp	w	CV	
15	Imp	w	CV	
16	Imp	w	CV	
17	Imp	w	CV	
18	Imp	v	CV	
19	Imp	w	CV	
20	Imp	w	CV	

#	<i>Bombus</i> Sp.	Caste	Host Plant	Notes
21	Imp	w	CV	
22	Imp	w	CV	
23	Imp	w	CV	
24	Imp	w	CV	
25	Imp	w	CV	
26	Imp	w	CV	
27	Imp	w	CV	
28	Imp	w	CV	
29	Imp	w	CV	
30	Imp	w	CV	
31	Imp	w	CV	
32	Imp	w	CV	
33	Imp	w	CV	
34	Imp	w	CV	
35	Imp	w	CV	
36	Imp	w	CV	
37	Imp	w	CV	
38	Imp	w	CV	
39	Imp	w	CV	
40	Imp	w	CV	

100% Sam
 Time 30min.
 = 1 hr. each

N/A

HB COLLECTED? _____ # _____

FLAN

Date: 9-9-16 Locality: _____ Locality code: 12251Latitude: _____ Longitude: _____ Start/End time: 2:50 / 3:20

Elevation: _____ Weather: _____ Temp: _____

#	<i>Bombus</i> Sp.	Caste	Host Plant	Notes
1	Imp	W.	Jewelweed	
2	Imp	W.	Jw.	
3	Imp	↓	↓	
4	Imp			
5	Imp			
6	Imp			
7	Imp			
8	Imp			
9	Imp			
10	Imp			
11	Imp			
12	Imp			
13	Imp	WORKER	Solidago	
14	Imp	↓	thistle	
15	Imp		Solidago	
16	Imp		Solidago	
17	Imp		flight	
18	Imp	↓	CV	
19	Imp		CV	
20	Imp		CV	

#	<i>Bombus</i> Sp.	Caste	Host Plant	Notes
21	Imp	WORKER	Jewelweed	
22	Imp			
23	Imp			
24	Imp			
25	Imp			
26	Imp			
27	Imp			
28	Imp			
29	Imp			
30	Imp			
31	Imp			
32	Imp		↓ Solidago	
33	Imp	↓	Solidago	
34	Imp		CV	
35	Imp		CV	
36	Imp		CV	
37	Imp		CV	
38	Imp	↓	CV	
39	Imp		JW	
40	Imp	↓	JW	

HB COLLECTED? _____ # _____

4th survey

Date: 9-9-16 Locality: _____ Locality code: BOST

Latitude: _____ Longitude: _____ Start/End time: 12:40 / 1:15

Elevation: _____ Weather: _____ Temp: _____

#	Bombus Sp.	Caste	Host Plant	Notes
1	Imp	WORKER	Solidago	
2	Imp	male ♂	Solidago	
3	Imp	WORKER	Solidago	
4	Imp	Worker		
5	Imp	WORKER		
6	Imp	WORKER		
7	Imp	WORKER		
8	Imp	♂		
9	Imp	♂		
10	Imp	♂		
11	Imp	♂		
12	Imp	♂		
13	Imp	♂		
14	Imp	♂		
15	Imp	♂		
16	Imp	Worker		
17	Imp	Worker		
18	Imp	Worker		
19	Imp	Worker		
20	Imp	Worker		

WORKER
 IIII IIII
 1

male
 IIII IIII
 IIII 1

each
30 min Alex &
Sam

#	Bombus Sp.	Caste	Host Plant	Notes
21	tern	♂	solidago	
22	Imp	♂		
23	Imp	♂		
24	Imp	♂		
25	Imp	♂		
26	Imp	♂		
27	Imp	♂		
28	Imp	♂		
29	Imp vag	♂	✓	
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
30				

HB COLLECTED? _____ # _____

Date: 9.10.16 Locality: _____ Locality code: COL

Latitude: _____ Longitude: _____ Start/End time: _____/_____

Elevation: _____ Weather: _____ Temp: _____

#	<i>Bombus</i> Sp.	Caste	Host Plant	Notes
1	Imp.	workers	RC	
2	Imp	workers	RC	
3	Imp	workers	RC	
4	Imp	workers	RC	
5	Imp	workers	RC	
6	Imp	workers	RC	
7	Imp	workers	RC	*
8	Imp	workers	RC	*
9	Imp	workers	RC	*
10	Imp	workers	RC	*
11	Vag	workers	RC	*
12	Imp	workers	RC	*
13	Imp	workers	RC	*
14	Imp	workers	RC	*
15	Imp	workers	RC	*
16	Imp	workers	RC	*
17	Imp	workers	RC	*
18	Imp	workers	Flight	*
19	Imp	workers	RC	*
20	Imp	workers	RC	*

ternarius



Imp



COL #
9.10.16
Imp
RC

* = caught
 * by Alex/Sam
 (in 30min each)

#	Bombus Sp.	Caste	Host Plant	Notes
21	Imp	workers	RC	*
22	Imp	workers	RC	
23	Imp	workers	RC	
24	Imp	workers	RC	
25	Imp	workers	RC	
26	Imp			*
27				*
28				*
29				*
30				*
31				*
32				*
33				*
34				*
35				*
36				*
37				*
38				*
39	bimac	Worker	RC	
30	bor	Worker	RC	

HB COLLECTED? _____ # _____

Date: 9.10.16 Locality: _____ Locality code: CIND

Latitude: _____ Longitude: _____ Start/End time: _____ / 1:35

Elevation: _____ Weather: _____ Temp: _____

died in
vial,
then
out

#	Bombus Sp.	Caste	Host Plant	Notes
1	Imp	worker	Knapweed	melanie
2	Ern	worker	RC	S&A died in vial - threw out
3	Imp	W	RC	
4	Imp	W	RC	
5	Imp	W	RC	
6	Imp	W	RC	
7	Vag.	W	RC	
8	Vag.	Q	RC	
9	Vag	W	RC	
10	Boe.	W	Vetch ^{cow}	
11	Imp	W	Birdfoot	
12	Imp	W	RC	
13	Imp	W	RC	
14	Imp	W	Knapweed	
15	Imp	W	RC	
16	Imp	W	RC	
17	Imp	W	RC	
18	Vag	W	RC	
19	Imp	W	KN	
20	Imp	W	RC	

each 10 min x 5

CIND #
9.10.16
Imp
RC

Imp
||||| |||

#	<i>Bombus Sp.</i>	Caste	Host Plant	Notes
21	Imp	W	RC	
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
30				

HB COLLECTED? _____ # _____