

POTATO UPDATE

Volume VII, Issue 17

Hermiston Agricultural Research and Extension Center

August 23, 2013

2121 South 1st Street, Hermiston, Oregon 97838, T 541-567-8321 | F 541-567-2240 | <http://oregonstate.edu/dept/hermiston/>

Silvia I. Rondon, Extension Entomologist Specialist • Philip B. Hamm, Plant Pathologist • Alexzandra Murphy, Postdoctoral Fellow,
Entomology • Jordan Eggers, Plant Pathology Lab Manager

Insect Trap Report

Area Pest Alert, Umatilla&Morrow Co.

Traps are collected on Thursdays.

TRAP	PTW	BLH	OLH	GPA	PA	OA
1	35	1	8	0	0	5
2	29	0	2	3	0	27
3	50	30	46	0	0	5
4	2	3	6	0	0	2
5	7	0	4	0	0	0
6	6	2	8	12	0	0
7	0	0	2	0	0	3
8	6	0	22	2	0	2
9	10	1	3	6	0	2
10	10	9	0	1	0	11
11	5	3	5	0	0	0
12	24	0	2	10	0	2
13	12	1	0	1	0	24
14	53	12	0	2	0	5
15	39	3	3	2	0	53
16	55	0	0	0	0	17
17	78	5	10	24	0	4
18	66	0	5	0	0	3
19	34	6	1	0	0	15
20	24	1	0	0	0	1
21	6	5	2	1	0	4
22	1	0	0	0	1	0
23	2	14	0	1	0	5
24	4	6	0	2	0	1
25	36	1	2	3	0	4
26	57	4	1	0	0	0
27	10	6	2	1	0	11
28	89	4	20	1	0	54
29	6	0	10	2	0	5
30	5	14	1	4	0	0
31	7	1	5	3	0	5
32	0	12	1	2	0	1
33	1	2	1	1	0	10
34	159	7	10	15	0	1

PTW: Potato Tuberworms
BLH: Beet Leafhoppers
OLH: Other Leafhoppers

GPA: Green Peach Aphids
PA: Potato Aphids
OA: Other Aphids

From BLH yellow sticky cards located outside potato circles.

TRAP	PP	OP
1	0	1
2	1	0
3	1	110
4	0	4
5	0	8
6	10	0
7	0	0
8	0	8
9	18	0
10	0	4
11	0	0
12	6	2
13	0	0
14	0	3
15	2	5
16	0	2
17	0	3
18	0	1
19	0	3
20	0	2
21	3	0
22	0	1
23	1	1
24	4	1
25	0	5
26	0	0
27	0	20
28	0	7
29	1	2
30	2	4
31	0	2
32	5	0
33	0	7
34	4	1

PP: Potato Psyllids
OP: Other Psyllids

From DVAC (5-10 feet from the edge of the field; 5 minutes)*.

TRAP	PP	OP
1		
2	69	1
3		
4		
5	2	0
6		
7		
8	na	na
9		
10		
11		
12		
13		
14		
15	4	0
16		
17		
18		
19		
20		
21		
22		
23		
24	6	0
25		
26	na	na
27		
28		
29		
30	na	na
31		
32	13	0
33		
34	12	0

PP: Potato Psyllids
OP: Other Psyllids
* selected sites were sampled

Zebra Chip Update

As of today, potato psyllids have been found in Umatilla, Morrow, Klamath, Union and Baker counties in Oregon. The zebra chip bacterium (Lso) was detected in potato plants and psyllids in the Lower Columbia Basin on 23rd of July, 2013. So far, there have been only six Lso-positive psyllid samples in the over six-thousand psyllids tested by the HAREC Plant Pathology Lab. No psyllids or plants have tested positive from Union, Baker, or Klamath counties. There will be more research updates from the OSU Ento lab during winter meetings. If you want to chat about this or other insect pests, please call us at 541-567-8321 (Rondon).

Are there potato tuberworm moths near you?

As harvest draws near, it is time to be vigilant regarding potato tuberworm moth (PTM) populations in your fields. You can monitor for PTM using delta traps baited with the PTM pheromone.

Potato Tuberworm Moths



Male Genitalia



Potato Tuberworm Moth ID

- About ¼ inch long
- Three black spots down wing
- Male genitalia are characteristic

Remember that controlling and limiting damage from PTM includes:

- Removing cull piles
- Limiting the time between vine kill and harvest
- Irrigating approximately 0.10 in per day between vine kill and harvest
- Insecticide applications may be effective starting about 4 weeks before desiccation/harvest
- At this point, no effective bio-control option is available for the Columbia Basin

Delta Trap



HAREC Plant Pathology Lab Potato Disease Update 8/23/13

The lab has received additional potato tuber samples that tested positive for tobacco rattle virus. BLTVA infections continue to be widespread across the Columbia Basin. Early blight is continuing to develop as plants senesce. Robert Cating, Plant Pathology Manager