OREGON STATE UNIVERSITY

Pg. 1 of 3

POTATO UPDATE

Volume VIII, Issue 19

Hermiston Agricultural Research and Extension Center

September 12, 2014

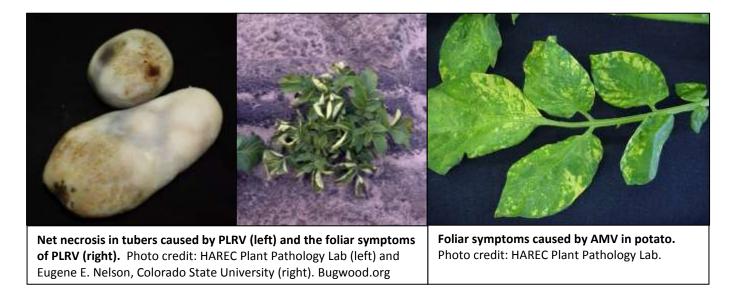
2121 South 1st Street, Hermiston, Oregon 97838, T 541-567-8321 | F 541-567-2240 | http://oregonstate.edu/dept/hermiston/
Silvia I. Rondon, Extension Entomologist Specialist ● Philip B. Hamm, Plant Pathologist ●
Robert Cating, Plant Pathology Lab Diagnostician ● Carol Mills, Bio Science Tech

Aphid-Transmitted Viruses in Potatoes: Part II

Last week we discussed Potato Virus Y (PVY issues. This week we will focus on two other important diseases. Potato leaf roll virus and Alfalfa mosaic virus.

Potato leaf roll virus (PLRV) is a <u>persistent</u> virus and causes leaves to roll upward and feel leathery (see photo below). Current season infections cause net necrosis in tubers, which reduces tuber quality, primarily in Russet Burbank.

Alfalfa mosaic virus (AMV) is transmitted by aphids in a <u>non-persistent</u> manner and can also cause tuber necrosis: beneath the skin of the potato, at the point of stolon attachment. Unlike PVY, however, AMV leaf symptoms show up as a calico pattern on the leaves (see photo below).



Information provided by Gregory Brittain, Robert Cating, Alex Murphy and Phil Hamm.

Addendum. Last week's "Aphid-Transmitted Viruses in Potatoes: Part I" information was also provided by the same authors.

Aphid management options can be found on pages 15-20 at: <u>Northwest Insect Management Guidelines</u>..... Silvia Rondon, Extension Entomologist Specialist.

OREGON STATE UNIVERSITY

Plant Pathology Lab Update

Potato Psyllids. 3183 psyllids were tested this week for Lso, the bacterium that causes zebra chip in potato tubers. Of these, 8 submissions tested positive for Lso. Approximately 14,000 psyllids have been tested by the HAREC Plant Pathology lab this year, which is a decrease from last year. If you have questions about testing services, call the lab at 541-567-8321.

Late Blight. Late blight is still a concern and in fields where late blight has been confirmed or fields nearby, weekly applications of protectant fungicide is recommended. In all other fields, applications every 1-2 weeks is suggested...-Robert Cating and Phil Hamm

LATE BLIGHT HOTLINE Oregon State University (800) 705-3377



Mark your calendars! For more information on Hermiston Farm Fair – Seminars & Tradeshow go to: http://oregonstate.edu/dept/hermiston/farm-fair-trade-show-1.

OREGON STATE UNIVERSITY

Pg. 3 of 3

Insect Trap Report

Area Pest Alert, Umatilla & Morrow Co. Traps are collected on Thursdays.

TRAP	PTW	BLH	OLH	GPA	PA	OA
1	-	-	-	-	-	1
2	8	0	1	-	-	-
3	23	0	5	-	-	-
4	2	0	0	0	0	2
5	2	3	0	0	0	5
6	-	-	-	-	-	1
7	14	0	1	1	0	25
8	3	0	2	0	0	4
9	9	0	0	-	-	-
10	0	0	0	-	-	-
11	-	-	-	-	-	-
12	-	-	-	-	-	-
13	9	0	0	-	1	ı
14	30	0	0	0	0	9
15	19	0	0	11	0	119
16	21	0	0	1	0	29
17	-	-	-	-	-	1
18	-	-	-	-	-	1
19	-	-	-	-	-	1
20	-	-	-	-	-	1
21	17	0	0	0	0	4
22	0	1	0	0	0	7
23	9	0	0	0	0	4
24	28	1	0	-	-	1
25	78	0	0	0	0	4
26	-	-	-	-	-	-
27	-	-	-	-	-	1
28	-	-	-	-	-	-
29	2	0	0	0	0	8
30	2	0	1	2	0	55
31	5	0	0	-	-	-
32	4	0	0	0	0	4
33	9	0	0	0	0	10
34	23	0	2	0	0	69
35A	0	0	1	0	0	0
35B	0	0	0	0	0	0

PTW: Potato Tuberworms

BLH: Beet Leafhoppers
OLH: Other Leafhoppers

GPA: Green Peach Aphids

PA: Potato Aphids OA: Other Aphids

From yellow Alphascents sticky cards in 3 feet, one per field.

TRAP	PP	OP
1	-	-
2	-	-
3	0	0
4	1	0
5	-	-
6	27	0
7	2	0
8	7	2
9		0
10	2	0
11	-	-
12	-	-
13	2	0
14	2	0
15	0	0
16	1	0
17	-	-
18	-	-
19	-	-
20	-	-
21	0	0
22	1	0
23	-	-
24	-	-
25	0	0
26	-	-
27	-	-
28	-	-
29	12	0
30	4	0
31	1	0
32	5	0
33	0	0
34	2	0
35A		0
35B	2	0

PP: Potato Psyllids OP: Other Psyllids