

POTATO UPDATE

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Hermiston Agricultural Research and Extension Center

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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 persistent 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 non-persistent 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).



Net necrosis in tubers caused by PLRV (left) and the foliar symptoms of PLRV (right). Photo credit: HAREC Plant Pathology Lab (left) and Eugene E. Nelson, Colorado State University (right). Bugwood.org

Foliar symptoms caused by AMV in potato. Photo credit: HAREC Plant Pathology Lab.

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: [Northwest Insect Management Guidelines](#).....
Silvia Rondon, Extension Entomologist Specialist.

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



41st Annual

HERMISTON

FARM FAIR

SEMINARS & TRADESHOW

DECEMBER

3rd - 4th - 5th

HERMISTON

CONFERENCE CENTER

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

Insect Trap Report

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

TRAP	PTW	BLH	OLH	GPA	PA	OA
1	-	-	-	-	-	-
2	8	0	1	-	-	-
3	23	0	5	-	-	-
4	2	0	0	0	0	2
5	2	3	0	0	0	5
6	-	-	-	-	-	-
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	-	-	-
14	30	0	0	0	0	9
15	19	0	0	11	0	119
16	21	0	0	1	0	29
17	-	-	-	-	-	-
18	-	-	-	-	-	-
19	-	-	-	-	-	-
20	-	-	-	-	-	-
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	-	-	-
25	78	0	0	0	0	4
26	-	-	-	-	-	-
27	-	-	-	-	-	-
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 Alphascent 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	1	0
10	2	0
11	-	-
12	-	-
13	2	0
14	1	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	0
35B	2	0

PP: Potato Psyllids
OP: Other Psyllids