

POTATO UPDATE

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Hermiston Agricultural Research and Extension Center (HAREC)

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Plant Disease Diagnostics Clinic Update

This week, 3,914 potato psyllids were tested for Lso, the bacterium responsible for zebra chip, with **No positives** detected. Psyllid submissions were about the same as last week. Other potato samples submitted for diagnosis this week included early blight, brown spot, *Rhizoctonia*, Verticillium wilt, black leg caused by *Pectobacterium carotovorum carotovorum* and *Pectobacterium atrosepticum*. In addition, eight plants with purple top were presented and tested **POSITIVE** for BLTVA. There is also a problem on Umatillas that causes a deformation on the upper leaves that we are currently working to solve. For questions about samples submissions, please contact Robert Cating at 541-567-8321 or email Robert.cating@oregonstate.edu. Ken Frost, Extension Plant Pathologist, Oregon State University, and Robert Cating, Plant Disease Diagnostician, Oregon State University

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Blackleg

We are seeing a fair amount of blackleg in fields this year. This disease can be caused by multiple bacterial organisms including *Pectobacterium atrosepticum*, *P. carotovorum*, *P. wasabiae*, and now some *Dickeya* species. Both *Dickeya* and



Figure 1. Wilting and B) black slimy stems of blackleg.

Pectobacterium affect many hosts including potato, carrot, corn, and parsnip. Symptoms you might see include poor emergence, chlorosis, wilting, tuber and stem rot, and darkened or black stems which are slimy, and death. Photos of wilting and black slimy stems are pictured above right.

Ken Frost, Extension Plant Pathologist and Robert Cating, Plant Disease Diagnostician, Oregon State University

Late Blight

To our knowledge there has been no change in the late blight status. We know that:

- 1) Late blight is present in the Burbank, WA area.
- 2) Late blight present in several fields Block 17 north of Pasco and east of Highway 395.

The clonal lineage in that area is US 8, which is mefenoxam and metalaxyl resistant.

Continue with a five-day fungicide application schedule in fields with late blight and fields in the Burbank, Finley, and north and east Pasco areas should be treated with a late blight fungicide on at least a 7-day schedule. All other fields in the Columbia Basin should be treated with a fungicide at least 7 days before a rainfall. Continue to monitor weather forecasts in your area and continue to scout fields for disease.

Dennis Johnson, Extension Plant Pathologist, Washington State University, Ken Frost, Extension Plant Pathologist and Robert Cating, Plant Disease Diagnostician, Oregon State University

Insect Trapping

Potato psyllids were collected on yellow sticky cards in 9 of our 18 sample locations in Umatilla and Morrow county fields this week; potato tubeworm numbers changed and were found in 10 locations out of 16; beet leafhoppers in 6 out of 18 locations. See the interactive [IAEP map](#) for more detailed information about insect counts on our trapping route this week. *Silvia Rondon, Extension Entomologist.*

Thanks to the Oregon Potato Commission for sponsoring our trapping and extension efforts. Also, special thanks to Anderson geographic & consulting for sponsoring our interactive map.



Insect Trap Report - The link to the map can be found at <https://goo.gl/8J9MSY>

Area Pest Alert, Umatilla & Morrow County. Traps are collected Thursday. Please note “-1” value means no data

Date (m/d)	Trap ID	PTM	BLH	OLH	PP	OP	GPA	PA	OA
7/21	1	-	-	-	-	-	-	-	-
7/21	2	10	0	1	2	3	0	0	3
7/21	3	10	0	1	0	1	0	0	2
7/21	4	4	1	0	0	0	0	0	1
7/21	5	1	0	0	0	0	0	0	0
7/21	6	-	-	-	-	-	-	-	-
7/21	7	19	0	0	7	1	0	0	0
7/21	8	15	0	1	26	41	0	1	3
7/21	9	25	0	0	9	40	0	1	2
7/21	10	0	0	1	44	32	0	0	0
7/21	11	-	-	-	-	-	-	-	-
7/21	12	24	3	0	2	0	0	2	0
7/21	13	-	-	-	-	-	-	-	-
7/21	14	-	-	-	-	-	-	-	-
7/21	15	48	0	1	0	1	0	0	1
7/21	16	-	-	-	-	-	-	-	-
7/21	17	-	-	-	-	-	-	-	-
7/21	18	-	-	-	-	-	-	-	-
7/21	19	-	-	-	-	-	-	-	-
7/21	20	-	-	-	-	-	-	-	-
7/21	21	-	-	-	-	-	-	-	-
7/21	22	0	0	0	1	1	0	0	0
7/21	23	0	3	1	0	0	0	0	0
7/21	24	0	1	6	0	0	0	0	0
7/21	25	0	0	0	4	0	0	0	0
7/21	26	-	-	-	-	-	-	-	-
7/21	27	-	-	-	-	-	-	-	-
7/21	28	-	-	-	-	-	-	-	-
7/21	29	0	1	0	6	31	0	0	1
7/21	30	-	-	-	-	-	-	-	-
7/21	34	56	0	1	0	2	0	1	1
7/21	35	-	1	1	0	0	-	-	-
7/21	36	-	0	0	0	0	-	-	-