

POTATO UPDATE

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HERMISTON AGRICULTURAL RESEARCH AND EXTENSION CENTER (HAREC)

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PLANT PATHOLOGY CLINIC UPDATE: Some diseases that might be starting to show up more frequently include potato early dying, caused primarily by *Verticillium dahliae* and early blight caused by *Alternaria solani*. Also, late blight has already been reported in the Columbia Basin this year, so keep an eye out for the characteristic water-soaked lesions on your potatoes.



Figure 1. Corky ringspot disease of potato caused by the nematode-transmitted Tobacco rattle virus.

We have had potato tubers submitted with corky ringspot, which is caused by *Tobacco rattle virus* (TRV) under the right environmental conditions (**Figure 1**). Symptoms of corky ringspot vary by cultivar, but include necrotic arcs, flecks, or rings that can vary in size in tuber tissue. The virus is transmitted by stubby root nematodes, several species of microscopic worm-like organisms in the *Paratrichodorus* and *Trichodorus* genera. Please let us know if you would like your potatoes tested for TRV and/or other necrotic tuber viruses such as *Potato virus Y* (a.k.a. PVY) or *Potato mop-top virus* (a.k.a. PMTV).

Please keep an eye out for blackleg, aerial stem rot, or soft rot in your crops and let us know if you have a field with those diseases. We would like to obtain samples of the soft rot bacteria that may be causing the problems in your field.

We receive submissions of potato psyllids from around the Columbia Basin specifically for zebra chip testing. This week, we had 31 individual potato psyllids submitted to the clinic, all negative for zebra chip. Please contact us at 541-567-8321 ext. 120 or by email rivedalh@oregonstate.edu for information on submitting samples to the clinic.

LATE BLIGHT UPDATE: Late blight is present in the Columbia Basin, north of Pasco. The *Phytophthora infestans* causing disease belongs to the US-23 clonal lineage, which is sensitive to mefenoxam (e.g. Ridomil)

and is pathogenic on both potato and tomato. Continue to monitor fields for late blight and please inform us of any new detections. If you need help confirming a late blight diagnosis please contact Rachel Bomberger, WSU Plant Pest Diagnostic Clinic, rachel.bomberger@wsu.edu (509) 335-3292, or Hannah Rivedal, HAREC Plant Disease Clinic, rivedalh@oregonstate.edu 541-567-8321 ext. 120.

POTATO SOIL HEALTH: For those of you interested in the national potato soil health SCRI project, there is now a website for that project (follow <https://potatosoilhealth.cfans.umn.edu/>). Click through the menus to learn more about the project, what is going on in your area or in other parts of the U.S. There is lots of information including treatment lists for each state and the standard protocols that are being used across all locations.

INSECT PEST SURVEY: Click on the following link to see population dynamics of pests in the Columbia Basin <https://agpass.maps.arcgis.com/apps/webappviewer/index.html?id=8f3577c883ab4ac58f262b4cd04ff569>.

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



Legend Table below

PTM: Potato Tuber Moth, BLH: Beet Leafhoppers; OLH: Other Leaf Hoppers; PP: Potato Psyllids; OP: Other Psyllids; GPA: Green Peach Aphid; PA: Potato Aphids; OA: Oher Aphids. BLH and Lygus already present in some fields. Lygus data presented include immatures and adults. -1 data not available. We have not found a location for Trap 12 yet due to late planting; Trap 32 was sprayed yesterday and we could not retrieve the traps.

	Trap #	PTM	BLH	OLH	PP	OP	GPA	PA	OA	LY
8-Aug	1	0	0	8	0	0	0	0	0	3
8-Aug	2	1	3	2	0	0	0	0	0	2
8-Aug	3	2	2	0	0	0	0	0	2	1
8-Aug	4	0	12	4	0	0	0	0	0	1
8-Aug	5	0	8	5	0	0	0	0	1	6
8-Aug	6	-	-	-	-	-	-	-	-	-
8-Aug	7	52	2	6	0	1	0	0	0	7
8-Aug	8	0	16	19	0	0	0	0	4	9
8-Aug	9	0	9	6	0	0	1	0	4	10
8-Aug	10	0	23	10	0	0	0	0	1	2
8-Aug	11	-	-	-	-	-	-	-	-	-
8-Aug	12	0	3	0	0	0	0	0	21	5
8-Aug	13	3	18	3	0	0	0	0	0	11
8-Aug	14	0	0	3	0	0	0	0	0	4
8-Aug	15	-	-	-	-	-	-	-	-	-
8-Aug	16	0	1	3	0	0	0	0	1	8
8-Aug	17	0	4	9	0	0	0	0	0	2
8-Aug	18	-	-	-	-	-	-	-	-	-
8-Aug	19	0	5	1	0	0	0	0	0	5
8-Aug	20	0	0	0	-	-	0	0	0	-
8-Aug	21	0	1	41	0	0	-	-	-	14
8-Aug	22	0	0	1	0	0	0	0	0	12
8-Aug	23	-	-	-	-	-	-	-	-	-
8-Aug	24	-	-	-	-	-	-	-	-	-
8-Aug	25	0	1	1	0	0	0	0	0	11
8-Aug	26	0	13	5	0	0	0	0	1	26
8-Aug	27	0	6	3	0	0	0	0	0	6
8-Aug	28	0	2	7	0	0	0	0	0	5
8-Aug	29	0	8	0	0	0	0	1	0	8
8-Aug	30	0	0	2	0	0	0	0	0	8
8-Aug	31	0	1	8	0	0	0	0	0	23
8-Aug	32	-	-	-	-	-	-	-	-	-
8-Aug	33	-	-	-	-	-	-	-	-	-
8-Aug	34	12	14	10	0	0	0	1	0	1
8-Aug	35	0	1	0	0	0	0	0	0	3
8-Aug	36	0	0	0	0	0	0	0	0	2
8-Aug	37	0	0	1	0	0	0	0	0	0