



Potato Progress

Research & Extension for the Potato Industry of
Idaho, Oregon, & Washington

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Oregon State University
Hermiston Agricultural Research & Extension Center
(2121 South 1st Street, Hermiston, Oregon 97838; 541-567-6337 or 541-567-8321)

Potato Field Day

June 25, 2014

- 7:30 am Registration and Welcome
- 8:00 – 8:30 Effects of thiamine treatment on potato to control *Potato Virus Y* and Zebra Chip - Amber Vinchesi, Aymeric Goyer, Silvia Rondon, OSU
- 8:30 – 9:00 A preview of this year entomological research at the HAREC – Silvia Rondon, OSU
- 9:00 – 9:30 The use of Vertisan and Vydate and how their use may change how metam sodium is used - Phil Hamm OSU
- 9:30 – 10:00 Seed, in-furrow and foliar treatments to manage Verticillium Wilt and foliar applications to manage Ridomil-resistant Pythium Leak – Lyndon Porter, USDA-ARS
- 10:00 – 10:30 Mini pivots for chemigation – Sarah DelMoro, OSU & Norm McKinley, DuPont
- 10:30 – 11:00 Oregon Potato Breeding and Variety Development Update – Brian Charlton, OSU
- 11:00 – 11:30 Review of Unmanned Aerial Vehicle work at HAREC - Phil Hamm and Silvia Rondon. OSU
- 11:30 - Noon Latest on PVY - Phil Hamm, Alex Murphy and Silvia Rondon, OSU

Noon Lunch provided courtesy of Syngenta Crop Protection.

Pesticide credits for Oregon, Washington, and CCA credits will be available.

<http://oregonstate.edu/dept/hermiston/>

University of Idaho

Snake River Pest Management Research Tours

You are invited to attend the annual UI Snake River Pest Management Research Tours to be held June 24th (Aberdeen) and 25th (Kimberly). Both tours begin at 8:30 (registration starts at 8:00) and conclude at noon with a free sponsored lunch. This year, the following studies and discussions will be held at Aberdeen and Kimberly.

Aberdeen, June 24th

Potato-related topics:

- Common lambsquarters control in potato with tank mixtures
- Linuron tank mixtures in potatoes
- Glyphosate carryover in Shepody potatoes
- Teton Russet tolerance to rimsulfuron
- Weed management in PCN trap crop- litchi tomato

Plus:

- Update on diseases and their management in cereals and potatoes
- Update on insect management in cereals and potatoes
- Update on weed management in sugar beets and cereals

Kimberly, June 25th

Potato-related topics:

- Update on weed management in potato
- Aphid/PLRV response to potato varieties
- Hairy nightshade and green peach aphid/PVY interaction in potato
- Potato varieties, plant growth regulators, and silver scurf management
- Export use of CIPC
- Variety response to early storage management
- Update on zebra chip program

Plus:

- Turf -- field bindweed management in bluegrass turf with herbicides and fertilizer
- Sugar beets – various insect, disease, and weed management research projects; various herbicide research projects
- Cereals -- wireworm biology and ecology in small grains and other crops; various weed and herbicide research projects
- Dry beans -- row spacing, plant growth habit and herbicides for season-long weed control; various weed and herbicide research projects
- Alfalfa -- Alfalfa tolerance to Sharpen herbicide

Please share this information with your colleagues. Pesticide Applicator Recertification credits and Certified Crop Advisor credits have been requested.

For more information contact Don Morishita (don@uidaho.edu), at Kimberly and Pam Hutchinson (phutch@uidaho.edu) at Aberdeen.

USDA Agricultural Research Service, Prosser Field Day, Paterson

July 9, 8:30 am – noon

The site, sponsored by AgriNorthwest, is located 5 miles east of Paterson, WA off highway 14. The tour will feature current research projects on:

Potatoes -- nutrient management, psyllid management, weed control, disease control, phosphorus fertilizers from anaerobic digester systems, and vine kill treatments for baby potatoes

Dry bean germplasm improvement

Switchgrass production for biofuel

Agronomic assessment of a green pea/canola rotation

Registration at door 8:30 a.m. with coffee and donuts.

TOUR will start at 9:00 a.m.

LUNCH will be served at noon.

Two Washington State pesticide applicator recertification credits available for attendees.

The 98th Annual Meeting of the Potato Association of America

Date: Tuesday July 29, 2014 (or attend the whole conference, July 27-31)

Location: The Davenport Hotel, Spokane, Washington

POTATO GROWERS, PRODUCERS, and INDUSTRY: you are invited to attend the 98th annual meeting of The Potato Association of America at The Davenport Hotel, Spokane, WA, July 27-31, 2014. This is a rare opportunity for the Northwest Potato Industry -- Washington only hosts this event once every 10-15 years. The annual PAA meeting is an event where scientists from around the world address many current potato research and production topics. We have scheduled a special one-day registration, referred to as 'INDUSTRY DAY' on Tuesday, July 29 for growers, producers and all support industry personnel. Growers and industry personnel are also welcome to register for the whole conference. See the website for more information regarding the program for the meeting:

<http://www.cm.wsu.edu/ehome/paa2014/133931/>

Industry day talks will be focused on applied research topics. There will be presentations about several important potato diseases and their control, fertilizer usage and production management, potato storage and temperature stress, as well as many other applied topics. This is a unique opportunity to talk with many of the world's premier potato scientists and hear about the newest research discoveries.

WSU Potato Field Day – Thursday June 26, 2014

Located at WSU Othello Research Unit – 1471 W Cox Rd, Othello
(6 miles East of Hwy. 26/17 Junction, On Booker Rd, ¼ Mile South of Hwy. 26)

8:30 – 9:00 am Coffee and donuts

9:00 – 10:00 am Commercial Seed Lot Trial Disease Results and Viewing, *Mark Pavek* – WSU Pullman
Featured topic: “**Tuber Cracking and PVY: Is there a link and is it variety specific?**”

Concurrent Session I: Potato Cultural Practices Field Tour

10:00 am **Unmanned Aerial System: Rapid Sensing Technologies in Potato Production and Management** *Sindhuja Sankaran and Lav R. Khot* - WSU, Pullman

10:20 am **Management of viruses in the potato crop: From a Host Resistance Perspective**
C.R. Brown, Linhai Zhang, Rich Quick, Launa Hamlin, Dennis Johnson, Bob Goeden – WSU, Pullman

10:40 am **Understanding phosphorus application methods and alternative/supplemental products** *Chandler Dolezal, Rhett Spear, Zach Holden, Mark Pavek* – WSU, Pullman

11:00 am **Crystal Green — Maximizing your Phosphorus Investment for High Value Yields**
Trudy Naugler Klassen and Dan Froehlich – Ostar, Vancouver, BC

11:20 am **Crop development, morphology & stress tolerance**
Rick Knowles, Mark Pavek, Lisa Knowles, Daniel Zommick, Derek Herman – WSU, Pullman

11:40 am **Water stress research on 10 varieties via variable rate irrigation (VRI)**
Mark Pavek, Rick Knowles, Zach Holden, Lisa Knowles, Rhett Spear – WSU, Pullman

12:00 pm – 1:00 pm **HOSTED LUNCH**

Concurrent Session II: Potato Pest Management Field Tour

10:00 am **Unmanned Aerial System: Rapid Sensing Technologies in Potato Production and Management** *Sindhuja Sankaran and Lav R. Khot* - WSU, Pullman

10:20 am **Science or speculation: Factors involved in scheduling a successful application program for late blight** *Dennis A. Johnson and Thomas F. Cummings* – WSU, Pullman

10:40 am **A year in the life of a potato psyllid**
Carmen Castillo Carrillo and Bill Snyder – WSU, Pullman

11:00 am **Good bugs in potatoes**
Karol Krey and Bill Snyder – WSU, Pullman

11:20 am **Sampling Network for Insect Pests of Potato – Potato Psyllids and Other Important Insects** *Carrie Wohleb* – WSU, Grant/Adams Counties

11:40 am **Potato Pest Phenology Models**
Elizabeth D’Auria – WSU, Pullman

12:00 pm **Evaluating the Impact of Various Insect IPM Programs on Potato Yield and Quality**
Tim Waters – WSU, Benton/Franklin Counties

12:20 pm – 1:00 pm **HOSTED LUNCH**

CCA and pesticide recertification credits have been applied for (WA & ID)