2013 Washington State Commercial Seed Lot Profile and Potato Field Day Preview

Mark J. Pavek & Zach J. Holden, Washington State University, Pullman

Washington potato acreage continued to climb during 2012 (Figure 1, dotted line). Acreage for 2013 is unknown at this time as it has yet to be tallied. This year’s seed lot sample number was back up to a typical level, especially when compared with last year’s seed lot - the lowest since 1992. There were 304 samples submitted during 2013, compared with 252 in 2012 (Figure 1, bars).

Montana continues to provide WA growers with the most seed lots followed by Idaho (Figure 2). The composition of the 2013 Seed Lot Trial included 19% Russet Burbank, 21% “Other” varieties, 17% Russet Norkotah, 14% Umatilla Russet, 15% Ranger Russet, 8% Alturas, and 6% Shepody (Figure 3). The 2013 “Other” category was composed of 22 new, non-mainstream varieties, or specialty varieties, ranging from numbered, non-released varieties to Yukon Gold (Figure 3). Shepody lots increased dramatically from the past 3 years.
Varieties developed by the Northwest Potato Variety Development Program/PVMI accounted for 43% (41% in 2012) of the seed lots entered into the 2013 trial and included: Alpine Russet, Alturas, Bannock Russet, Clearwater Russet, Ranger Russet, Sage Russet, Umatilla Russet, and POR06V12-3. There were 34 different varieties entered into the 2013 seed lot trial, compared with a high of 45 in 2011 (Figure 4).
The potato field day will begin at 8:30 am on THURSDAY, June 27 at the WSU Othello Research Farm (see program below). In addition to viewing the seed lots, you will be able to participate in one of two concurrent sessions. Sessions I and II will allow you to view a sample of this year’s in-field research. Both sessions will offer CCA, WA, and ID recertification credits. A hosted lunch, offered between 12:00 and 1:00 pm, will complete the field day. The agenda, seed lot information, and a map to the research center can be found on our website: [www.potatoes.wsu.edu](http://www.potatoes.wsu.edu).

**Pesticide License Recertification Credits Applied For:**

**Commercial Seed Lot Trial Disease Results and Viewing**
- WA: 1 credit
- ID: 1 credit
- CCA: 1 Integrated Pest Management credit

**Concurrent Session I: Potato Cultural Practices Field Tour**
- WA: 0 credit
- ID: 0 credit
- CCA: 1.0 Crop Management credit

**Concurrent Session II: Potato Pest Management Field Tour**
- WA: 2 credits
- ID: 2 credits
- CCA: 1.5 Integrated Pest Management credits
WSU Potato Field Day — Thursday June 27, 2013
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 rolls

General Session:

9:20 am Ribbon Cutting Ceremony – New WSU Irrigation System and WSPC-Donated Pivots
M.J. Pavek, N.R. Knowles – WSU, Pullman, Mike Dodds – WSPC Moses Lake

9:30 am Variable Rate Irrigation (VRI) Pivot Demonstration

9:45 am Commercial Seed Lot Trial Disease Results and Viewing, Mark Pavek – WSU Pullman

Concurrent Session I: Potato Cultural Practices Field Tour

10:45 am Northwest Potato Commissions Launch Research Collaboration
Andy Jensen – Regional Research Director, ID-OR-WA Potato Commissions

11:00 am Thirty-four Inch Row Width for Columbia Basin Potatoes? Are you sure about that? Mark Pavek, Zach Holden, Rhett Spear – WSU, Pullman


11:40 am Assessing the Effects of Heat Stress and Nitrogen on Seed Productivity & Postharvest Quality Rick Knowles, Lisa Knowles, Daniel Zommick – WSU, Pullman

11:55 pm The Sampling Network for Insect Pests of Potato in the Columbia Basin Carrie Wohleb – WSU, Grant/Adams Counties

12:15 pm – 1:00 pm HOSTED LUNCH

Concurrent Session II: Potato Pest Management Field Tour

10:45 am Incidence of Four Fungal Pathogens on Tuber Periderms of Samples from the Seed Lot Trial Dennis Johnson and Tom Cummings – WSU, Pullman


11:30 am Bacterial Ring Rot on Potato: Sanitation, Sanitation, and More Sanitation Brenda Schroeder – WSU, Pullman

11:55 am Who’s eating spider mites? Karol Krey, Bill Snyder – WSU, Pullman

12:15 pm Ecology of the Potato Psyllid Bactericera cockerelli on Bittersweet Nightshade Solanum dulcamara Carmen Castillo, Bill Snyder – WSU, Pullman

12:35 pm – 1:00 pm HOSTED LUNCH

CCA and pesticide recertification credits have been applied for (WA & ID)
Oregon State University Hermiston, Potato Field Day

June 26, 2013: registration beginning at 7:45am, first presentation at 8:15 am

Potato field day this year will be unlike any ones of the past. Beginning with the first presentation, the demonstration of an UAV (Unmanned Aerial Vehicle) use in agriculture and specifically potato, to the last presentation ending about noon, showing the data generated from the UAV flight, and all the topics in between, makes this year’s potato field day one not to miss. Lunch will be served through the generous support by Syngenta Crop Protection.

Besides the flight of the UAV, topics will cover the information dealing with the management of *Potato Virus Y*, use of chloropicrin as a fumigant to control soilborne pathogens, and trials to manage Verticillium wilt using seed, in furrow and foliar applications of certain products. Topics will also cover how to keep potato plants living longer, update on the entomology program activities at HAREC that are important to potato production, some of the new products out there to aid in potato production, and what the new potato breeding program at HAREC is doing, will be doing, and hopes to accomplish. Pesticide recertification credits and Certified Crop Advisor credits will be available.

---

University of Idaho Snake River Pest Management Research Tours

Save the dates, June 25th (Kimberly) and 26th (Aberdeen), for our annual UI Snake River Pest Management Research Tours. Both tours begin at 8:30 (registration starts at 8:00) and conclude at noon with a free sponsored lunch. This year, the following potato-related studies and discussions will be held at Kimberly and Aberdeen.

**Kimberly**

Wireworm in potato insecticide trial
Aphid / PLRV response to potato varieties
Potato psyllid insecticide trials
Hairy nightshade and green peach aphid/PVY interaction in potato

**Aberdeen**

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
Update on diseases and their management in cereals and potatoes
Update on insect management in cereals and potatoes

For more information contact Don Morishita ([don@uidaho.edu](mailto:don@uidaho.edu)), Oliver Neher ([oneher@uidaho.edu](mailto:oneher@uidaho.edu)) or Erik Wenninger ([erikw@uidaho.edu](mailto:erikw@uidaho.edu)) at Kimberly and Pam Hutchinson ([phutch@uidaho.edu](mailto:phutch@uidaho.edu)) at Aberdeen.
TETONIA FIELD DAY

WHEN
July 25th, 2013
12 pm - 2 pm

WHERE
Tetonia Research Farm
888 West Highway 33, Newdale ID 83436

FEATURING • Official Announcement of the Idaho Barley Commission’s endowment to U of I CALS • Attendance by both the University of Idaho Interim President Donald Burnett and University of Idaho Interim Ag. Dean John Foltz • Barley and Potato Research Tours
♦ ♦ ♦ BBQ Lunch provided by Teton County 4-H ♦ ♦ ♦

FOR MORE INFORMATION
KELLY OLSON—kolson@idahobarley.org
ANDY JENSEN—ajensen@potatoes.com
PHIL NOLTE—pnolte@uidaho.edu