



# Potato Progress

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

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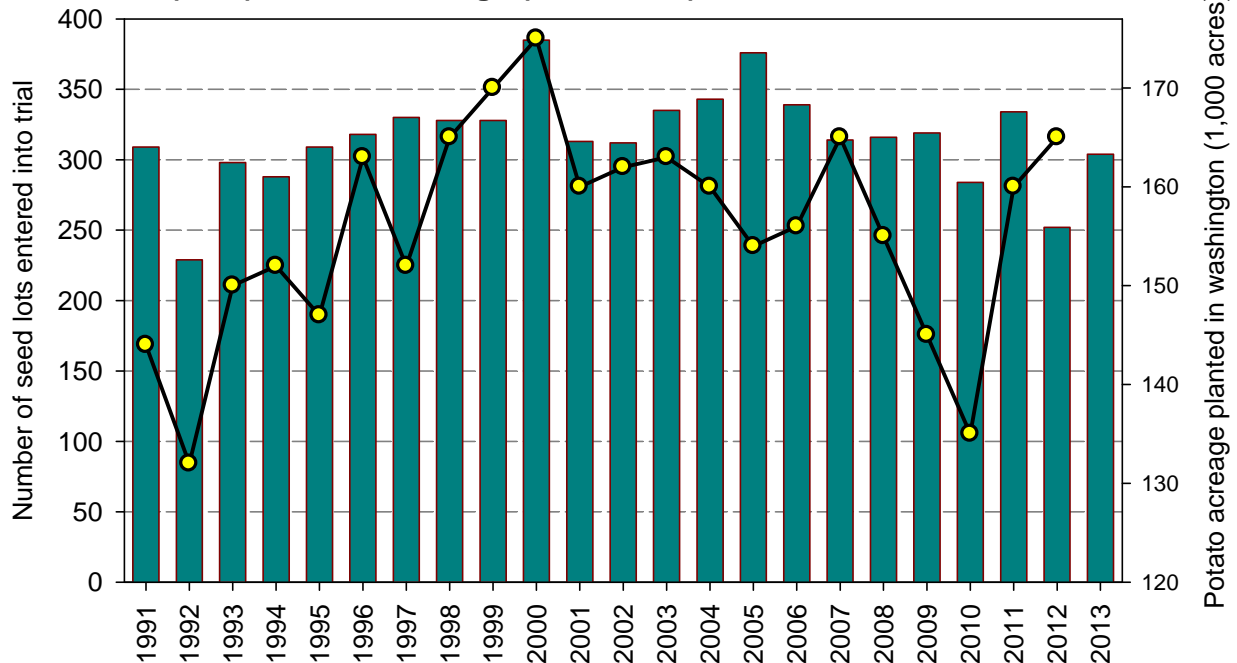
June 11, 2013

## 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).

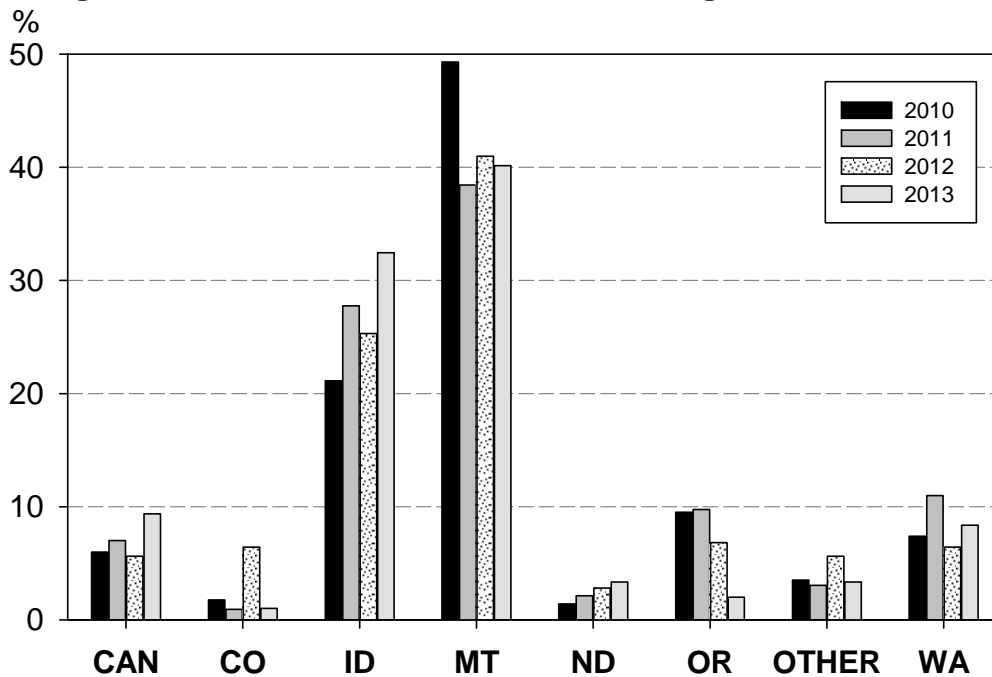
**Number of Potato Seed Lots Entered into the WSU Seed Lot Trial (bars) and WA Acreage (dotted line) Across the Past 23 Years**



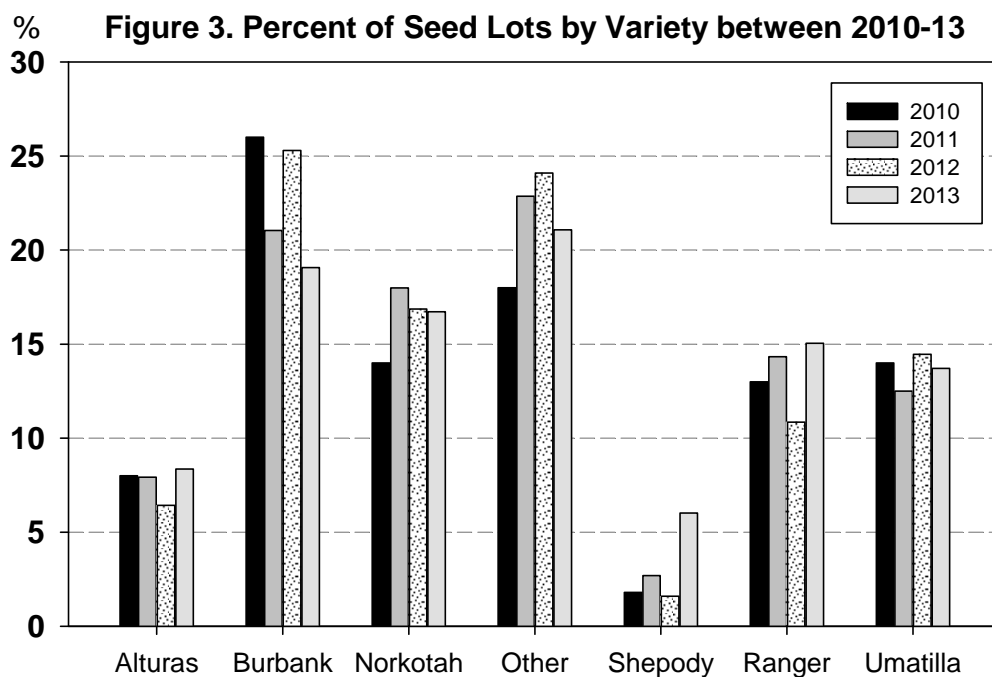
Montana continues to provide WA growers with the most seed lots followed by Idaho (Figure 2). The composition of the 2013 Seed Lot Trial included 19% Russet Burbank, 21% "Other" varieties, 17% Russet Norkotah, 14% Umatilla Russet, 15% Ranger Russet, 8% Alturas, and 6% Shepody (Figure 3). The 2013 "Other" 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).

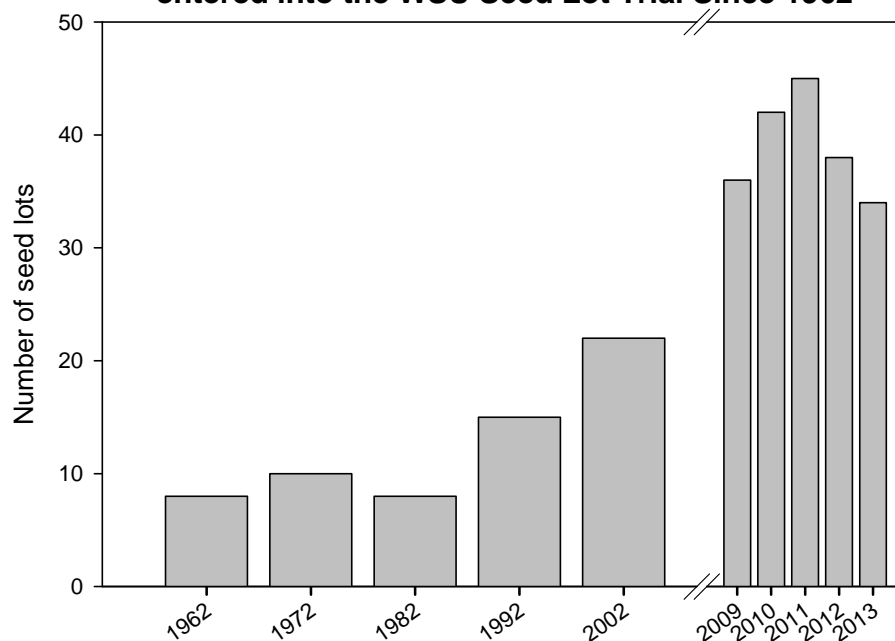
**Figure 2. Percent of Seed Lots from each Region between 2010-13**



**Figure 3. Percent of Seed Lots by Variety between 2010-13**



**Figure 4. Number of Potato Varieties and Variety Strains entered into the WSU Seed Lot Trial Since 1962**



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:

- 9:00 am **The Commercial Seed Lot Trial: 50 Years of Partnership between WSU and WA State Potato Commission** *M.J. Pavek, J. Moyer, R.T. Koenig, N.R. Knowles, R.E. Thornton – WSU Pullman; M. Dodds – WSPC Moses Lake, A. Jensen – WSPC, IPC, OPC*
- 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*
- 11:15 am **Innovation, Equipment and Designs Enabling us to Conduct Applied, Small Plot Research** *C. Dolezal, S. Shelton, R.R. Spear, Z.J. Holden, R. Garza, J. Rodriguez, M.J. Pavek – 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*
- 11:10 am **Black Dot, Powdery Scab and Potato Mop-Top Virus Resistance in Advanced Germplasm** *C.R. Brown, J. Crosslin, R. Quick, L. Hamlin, R. Castañeda, N. Morris – USDA-ARS, Prosser*
- 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 25<sup>th</sup> (Kimberly) and 26<sup>th</sup> (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](mailto:kolson@idahobarley.org)**  
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## BARLEY & POTATO RESEARCH

## HOSTED BY

**University of Idaho CALS**  
**Idaho Barley Commission**  
**Idaho Potato Commission**  
**USDA Agricultural**  
**Research Service**

**University of Idaho**  
*College of Agricultural and Life Sciences*



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