



Potato Progress

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

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www.nwpotatoresearch.com

Volume XIV, Number 7

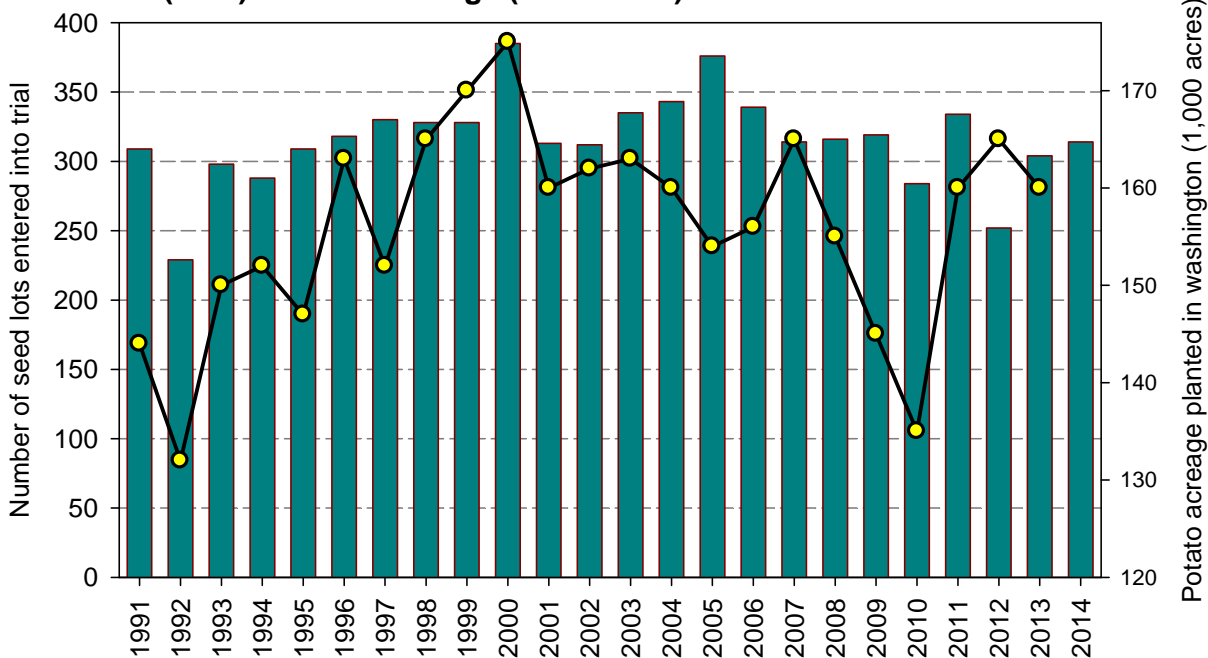
June 9, 2014

2014 Washington State Commercial Seed Lot Profile and Potato Field Day Preview

Mark Pavek & Zachary Holden, Washington State University

Washington potato acreage has been between 160,000 and 165,000 over the past 3 years (Figure 1, dotted line). Acreage for 2014 is unknown at this time as it has yet to be tallied. There were 314 commercial seed lot samples submitted to WSU during 2014, compared with 304 in 2013 and 252 in 2012 (Figure 1, bars).

Figure 1. Number of Potato Seed Lots Entered into the WSU Seed Lot Trial (bars) and WA Acreage (dotted line) Across the Past 24 Years



Idaho grown seed lots continue to increase in numbers and are approaching the amount Montana provides to WA growers (Figure 2). The composition of the 2014 Seed Lot Trial included 20% Russet Burbank, 23% “Other” varieties, 15% Russet Norkotah, 13% Umatilla Russet, 13% Ranger Russet, 7% Alturas, 6% Clearwater Russet and 4% Shepody (Figure 3). The 2014 “Other” category was composed

of 29 new, non-mainstream varieties, or specialty varieties, ranging from numbered, non-released varieties to Yukon Gold (Figure 3). Clearwater Russet seed lots increased dramatically this year compared to 2013. They accounted for 6% of the seed lots in 2014 and less than 1% in 2013 (Figure 3).

European potato variety seed lot entries have been steadily increasing over the past 5 years. Fifteen European potato varieties were entered into the 2014 seed lot trial, accounting for 8% of all seed lots entered (data not shown). Varieties developed by the Northwest Potato Variety Development Program/PVMI accounted for 38% (43% in 2013) of the seed lots entered into the 2014 trial and included: Alpine Russet, Alturas, Bannock Russet, Classic Russet, Clearwater Russet, Modoc, Ranger Russet, Teton Russet, and Umatilla Russet. There were 44 different varieties entered into the 2014 seed lot trial (Figure 4).

Figure 2. Percent of Seed Lots from each Region between 2011-14

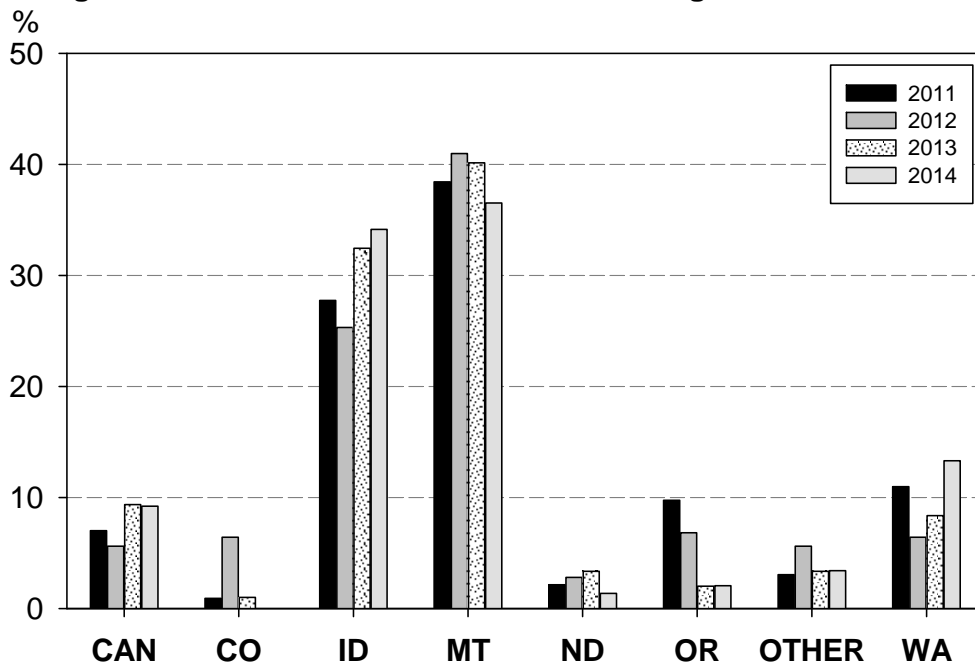


Figure 3. Percent of Seed Lots by Variety between 2011-14

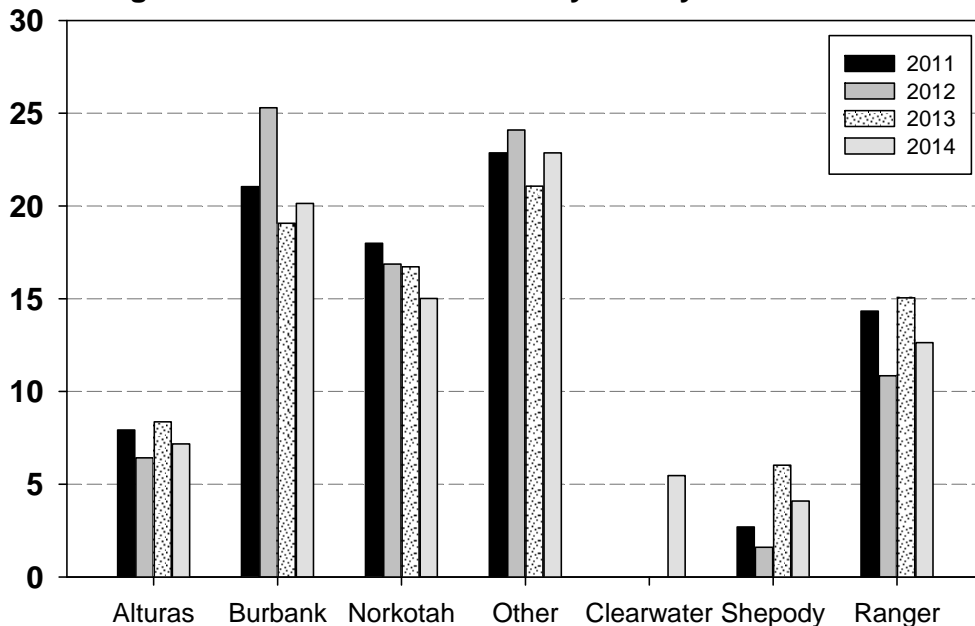
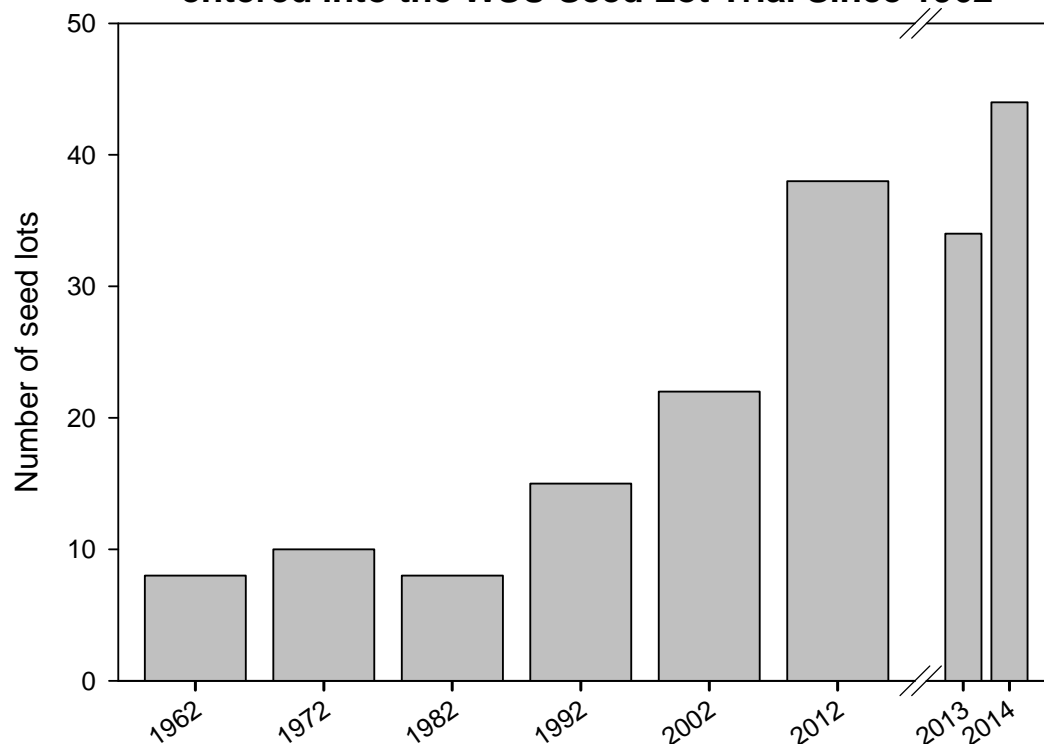


Figure 4. Number of Potato Varieties and Variety Strains entered into the WSU Seed Lot Trial Since 1962



The potato field day will begin at 8:30 am on THURSDAY, June 26 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 recertification credits; however, only session II (pest management tour) will offer WA and ID pesticide 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.

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: 2.0 Crop Management credit

Concurrent Session II: Potato Pest Management Field Tour

WA: 2 credits

ID: 2 credits

CCA: 2.0 Integrated Pest Management credits

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 – Ostara, 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)