

WSU Potato Field Day – June 26, 2009

Located at WSU Othello Research Unit

(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

9:00 - 10:00 am Visit Seed Lot Trial

Concurrent Session I: Potato Cultural Practices Field Tour

- 10:15 am **Money for nothing and your chips for free**
Jeanne Debons – Potato Variety Management Institute, Bend, OR
- 10:30 am **Screening for phytonutrient-rich baby potatoes**
Roy Navarre – USDA/ARS – Prosser
- 10:45 am **Strategies for Increasing Seed Productivity – Specialty & Russet Cultivars**
Rick Knowles, Lisa Knowles, Jake Blauer – WSU, Pullman
- 11:00 am **Physiology of Mottling & Other Postharvest Disorders**
Daniel Zommick, Lisa Knowles, G.N.M. Kumar, Rick Knowles – WSU, Pullman
- 11:15 am **Screening for Low-Input Cultivars: Four In-Season N Rates Applied to Eight Potato Cultivars**
Mark Pavek, Zach Holden, Chris Hiles, Rudy Garza, Josh Rodriguez – WSU, Pullman
- 11:30 am **Alturas and Premier Russet In-Season Nitrogen Rates for Maximizing Potato Profits**
Chris Hiles, Mark Pavek, Rick Knowles, Zach Holden, Rudy Garza, Josh Rodriguez – WSU, Pullman
- 11:45 am **Effects of Management on Tuber Maturity & Processing Quality**
Rick Knowles, Mark Pavek, Chris Hiles, Lisa Knowles, Zach Holden – WSU Pullman
- 12:00 pm - 1:00 pm **HOSTED LUNCH**

Concurrent Session II: Potato Pest Management Field Tour

- 10:15 am **Money for nothing and your chips for free**
Jeanne Debons – Potato Variety Management Institute, Bend, OR
- 10:30 am **Potato Insect Pest Survey for the Columbia Basin: Aphids, Tuberworm, and Leafhoppers**
Carrie Wohleb – WSU – Grant & Adams Counties
- 10:45 am **Research aimed at managing soil borne diseases of potato**
Tom Cummings, Dennis Johnson - WSU, Pullman
- 11:00 am **Effect of infected seed on Verticillium wilt and black dot**
Dennis Johnson, Tom Cummings – WSU - Pullman
- 11:15 am **Impact of pectolytic bacteria and Verticillium dahliae on potato production.**
Brenda K. Schroder, Jeremiah Dung and Dennis Johnson – WSU - Pullman
- 11:30 am **Insect pathogen suppression of Colorado potato beetles**
Randa Jabbour, Bill Snyder - WSU, Pullman
- 11:45 am - 1:00 pm **HOSTED LUNCH**

Concurrent Session III: Irrigation Application Efficiency Workshop

- 10:15 am **Uniformity and Application Efficiency of Irrigation Systems. Obscure but Significant Costs**
Troy Peters, WSU – Prosser, Leigh Nelson, USDA-NRCS, Tom Hoffmann, WSDA – Moses Lake

The workshop will introduce the concept of distribution uniformity, the causes of poor irrigation system performance, and economic and ecological ramifications of poor distribution uniformity.

Topics to be discussed: measures of irrigation efficiency; distribution uniformity: What is it, why is it important, and how it is measured; factors that affect distribution uniformity; process of determining distribution uniformity; corrective measures to improve distribution uniformity; effect of poor distribution uniformity on operational costs; measuring water flow rate of an irrigation system using an ultrasonic flow meter; demonstration of flow rate and distribution pattern of properly and malfunctioning sprayheads and pressure regulators; effect of poor distribution uniformity on environmental degradation; evaluate irrigation system integrity for chemigation applications; conducting site assessments to determine field suitability for chemigation; and common problems with chemigation

- 12:15 - 1:00 pm **HOSTED LUNCH**
CCA and pesticide recertification credits have been applied for (WA & ID)