



# Potato Progress

Research and Extension for Washington's Potato Industry  
Published by Washington State Potato Commission [www.potatoes.com](http://www.potatoes.com)  
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Volume VI, Number 7

June 20, 2006

## WSU Potato Field Day - June 23, 2006

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 - 10:20 am Visit Seed Lot Trial

### Concurrent Session I: Potato Cultural Practices Field Tour

10:30 am **Nitrogen x In-Row Spacing x Harvest Date for A95109-1 and Reduced In-Season Nitrogen on 8 Varieties**, Mark Pavek, Ed Driskill, and Zach Holden - WSU, Pullman

10:45 am **Breeding for Resistance to Soil-Borne Diseases and Pests**  
Chuck Brown - USDA-ARS, Prosser

11:00 am **Seed Handling Affects Crop Performance & Value for Columbia Basin Growers**  
Rick Knowles, Lisa Knowles, and Nora Fuller - WSU, Pullman

11:15 am **Target Stem Numbers for Optimizing Tuber Size Distribution & Crop Value**  
Rick Knowles, Lisa Knowles, and Nora Fuller - WSU, Pullman

11:30 am **Crop Growth & Storability Profiles for Newly Released Cultivars**  
Rick Knowles, Mark Pavek, Lisa Knowles, Ed Driskill, Nora Fuller, Zach Holden - WSU, Pullman

11:40 am **Are Some Potato Cultivars Really More Susceptible to PVY and Why?**  
Dan Hane and Phil Hamm - OSU, Hermiston

11:50 am - 1:30 pm **HOSTED LUNCH**

### Concurrent Session II: Potato Pest Management Field Tour

10:30 am **Timing and types of Fungicide Application for Effective Black Dot (*Colletotrichum coccodes*) and White Mold (*Sclerotinia sclerotiorum*) Control**, Tom Cummings & Dennis Johnson - WSU, Pullman

10:45 am **Are Some Potato Cultivars Really More Susceptible to PVY and Why?**  
Dan Hane and Phil Hamm - OSU, Hermiston

- 11:05 am     **Biocontrol Using Beneficial Nematodes**  
*Ricardo Ramirez II and Bill Snyder - WSU, Pullman*
- 11:20 am     **Common Beneficial Insects (and Spiders) in Potatoes**  
*Bill Snyder - WSU, Pullman*
- 11:35 am     **Does Predator Biodiversity Improve Biological Control?**  
*Cory Straub and Bill Snyder - WSU, Pullman*
- 11:55 am - 1:30 pm     **HOSTED LUNCH**

**Concurrent Session III:           Potato Pest Management Workshop**

- 10:30 am     **Development and Management of Bacterial Rot in the Columbia Basin**  
*Dennis Johnson and Tom Cummings - WSU, Pullman*
- 11:00 am     **Impact of the Purple Top Disease on Potato Tuber Processing Quality**  
*Joseph Munyaneza - USDA-ARS Yakima*
- 11:15 am     **The Leafhopper and Tuber Worm Trapping Network**  
*Andrew Jensen - WA State Potato Commission*
- 11:30 am     **Strengths and Weaknesses of Two New Potato Herbicides: Dimethenamid-P (Outlook) and Flumioxazin (Chateau)** *Rick Boydston - USDA-ARS, Prosser*
- 12:00 pm     **Biology and Economic Impact of the Potato Cyst Nematodes, *Globodera pallida* and *Globodera rostochiensis*** *Ekaterina Riga - WSU, Prosser*
- 12:30 - 1:30 pm     **HOSTED LUNCH**

## Field Day Dates to Remember

June 22<sup>nd</sup>, 8:30 am, OSU Hermiston Potato Field Day.

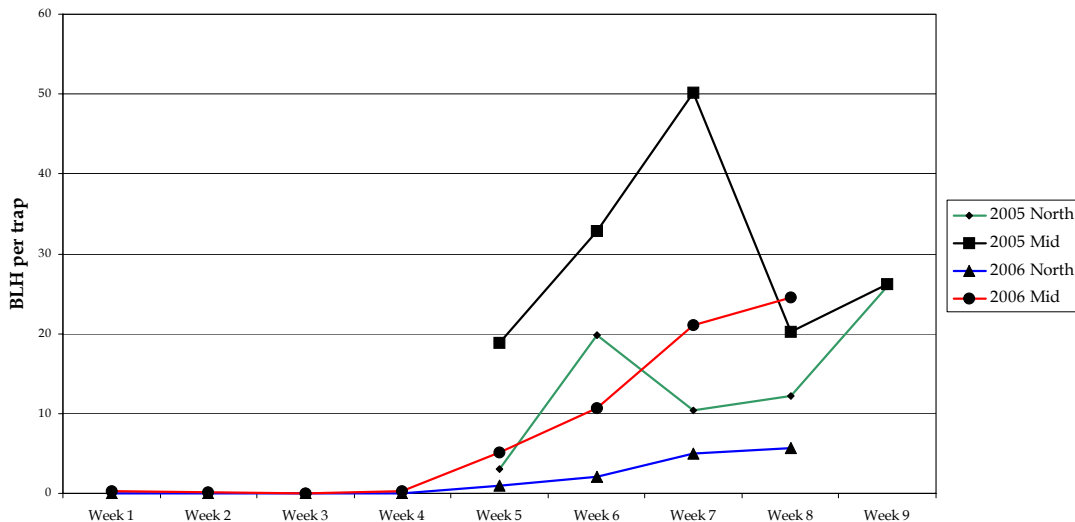
June 23<sup>rd</sup>, 8:00 am, WSU Seed Lot Field Day, Othello Research Unit. Lunch provided.

July 7<sup>th</sup>, 8:30 am, USDA-ARS Potato Cropping Systems Field Day at Paterson. Lunch provided.

August 2<sup>nd</sup>, 8:30 am, Potato Pest Management Field Day, Eltopia area. Lunch provided.

## Beet Leafhopper Status and Information

As we noted in *Potato Progress* VI(5), beet leafhopper numbers are on the rise. Week 8 in the figure is the week ending June 12<sup>th</sup>. "North" is north of Othello, "mid" is Eltopia to Othello.



## Past Potato Conference Proceedings Hard Copies Available

The potato commission office has a limited supply of back issues of the potato conference proceedings in hard copy. Our supply extends back to the 1985 conference. If you would like a hard copy of any of these years, please contact the office at 509-765-8845, or e-mail Andy Jensen at [ajensen@potatoes.com](mailto:ajensen@potatoes.com). Cost per book will be \$2.50 to cover postage and handling.

Also remember that the conference proceedings are available in a searchable format on the potato commission website, [www.potatoes.com/research.cfm](http://www.potatoes.com/research.cfm).

## Seeking New Members for the Potato Commission Research Council

The potato commission's research program is reviewed annually by a diverse group of potato industry personnel that includes growers, processors, and fertilizer/chemical industry representatives. This group is called the **research council**. The research council reviews research reports and proposals during a series of winter meetings, then prioritizes all research projects for the commission's consideration. For all industry members, serving on the research council is a great way to keep up on the latest in research being conducted on potatoes in Washington. For growers, it is an ideal way to help the commission decide how to spend your assessment dollars.

If you are interested in joining the research council, please contact Andy Jensen at 509-765-3680 or [ajensen@potatoes.com](mailto:ajensen@potatoes.com).

## Potato Cropping Systems Field Day at Paterson, July 7<sup>th</sup>, 2006

### 8:30 am Welcome and Introductions

#### Research Presentations:

Switchgrass --how do we grow it successfully? (*Steve Fransen*)

Bio-fuel variety trials (*Hal Collins, An Hang and Steve Fransen*)

Impact of planting density on white mold severity and yield in lima beans (*Lyndon Porter*)

Effects of In-Row Spacing on Processing Value of Early-Harvested Ranger Russet (*Mark Pavek, E.P. Driskill and Z.J. Holden*)

Black dot research in the Pacific Northwest (*Dennis Johnson*)

Reduced tillage in a three year potato rotation (*Hal Collins*)

Gaseous N-Losses from Potato Under Center Pivot Irrigation (*Shawel Haile-Mariam and Hal Collins*)

Irrigation and N management for Ranger Russet and Umatilla Russet varieties (*Ashok Alva*)

Advanced breeding lines of specialty potatoes (*Chuck Brown*)

Tembotrione; a new herbicide for volunteer potato and weed control in sweet corn (*Rick Boydston*)

Nightshade control in potato with flumioxazin "How low can we go?" (*Rick Boydston*)

Advances in Potato Tuberworm Management (*Alan Schreiber*)

Bio-Fuel oilseed variety trials (*An Hang and Hal Collins*)

### 12:00 noon Lunch sponsored by AgriNorthwest

**Location: 9 miles west of I-82 on Hwy 14, near Paterson. The research site is south of Hwy 14 - watch for signs.**