

UC Davis Small Grains/Alfalfa Field Day

Wednesday, May 7, 2014, Davis, CA

Directions: UC Davis Agronomy Field Headquarters, Hutchison Road, Davis, CA
Take Hwy 113 near Davis to Hutchison Rd. go west. Right at first rotary, left at second rotary, about 1/3 mile further down on the left.

The purpose of this field meeting is to take a look at and discuss research trials and crop production issues in California related to forages and cereal grains. This includes variety trials, pest and disease updates, weed control, and nutrient management.

8:00 Registration (Coffee and donuts)

8:15am – Noon: Small Grains

- Welcome and Introductions
- Issues for California Wheat— *Janice Cooper, California Wheat Commission*
- New UC wheat varieties, wheat research— *Jorge Dubcovsky, UCD wheat breeder*
- Departure to field tour
- Promising UCD Lines for Future Common Wheat and Durum Wheat Variety Releases – *Oswaldo Chicaiza, and Alicia del Blanco Wheat Breeders*
- Genetic Studies for New Traits –
 - Mapping new stripe rust resistance genes *PhD student Nicolas Cobo*
 - Using barley to identify resistance genes to wheat stripe rust *PhD Student Josh Hegarty*
 - Increasing resistant starch content in the wheat grain *PhD student Brittany Hazard*
 - Discovering genes for drought tolerance *Tyson Howell and Junli Zhang*
- In-field diagnostic tools for improved nitrogen management – *Mark Lundy, UCCE Colusa-Sutter-Yuba*
- Pyramiding genes for virus resistance in barley – *Lynn Gallagher and Alicia del Blanco*
- Collaborators Quality Program – *Phil Mayo*
- Statewide Germplasm Development and Evaluation – Wheat & Triticale, Durum, and Barley – *Phil Mayo, Wheat and Barley Regional Testing Program Coordinator. With participation of breeders from private breeding companies.*

12:00 Noon: Barbeque Lunch (Noon) Sponsored by California Crop Improvement

12:30 Welcome – *Dean Helene Dillard, UC Davis College of Agriculture*

12:40 Envisioning Plant Breeding for Improved Yields and Pest Management at UC Davis – *Charlie Brummer, director, the new Plant Breeding Center, UC Davis*

12:50 California Alfalfa & Forage Association—Pesticide and Industry Reports—
Spencer Halsey, CAFA, Sacramento, CA

1:00 Field Tour:

- 1:05 Yield and Pest Management in new crops: Canola, Camelina and Castor grown for Biofuels—*Steve Kaffka, Nick George, UC Davis*
- 1:20 Studies on Switchgrass as a Potential Forage Crop—*Dan Putnam, UC Davis*
- 1:30 Aphid Outbreak in Alfalfa Hay and Results of Field Trials—*Larry Godfrey, Department of Entomology, UC Davis*
- 1:45 Diseases, Stem Nematode Issues with Alfalfa, and Chlorpyrifos use—*Rachael Long, UCCE Farm Advisor*
- 1:55 Low Lignin Trials in Alfalfa—First Year Data –*Dan Putnam, UC Davis*
- 2:10 Irrigation Studies with Alfalfa and Wrestling with Drought
- Lysimeter/ Field-based water Measurements in Alfalfa –*Daniele Zaccaria, Rick Snyder, UCD*
 - Deficit Irrigation of Alfalfa During Drought—*Steve Orloff, UCCE Siskiyou County, Yreka, CA*
 - AquaMon-CIMAS Sensors for timing Irrigations—*Frank Stempski, Cermetec, San Jose, CA*
 - Subsurface Drip Irrigation work in alfalfa—*Scott Warr, Netafim Co., Fresno, CA*
- 3:00 Understanding the Nitrogen Credits when Alfalfa is rotated with Wheat—*Eric Lin, Graduate Student, UC Davis*
- 3:15 In-field diagnostic tools for improved nitrogen management—*Mark Lundy, UCCE Colusa-Sutter-Yuba*
- 3:20 Sharpen as an Alternative Weed Management Option—*Dawn Brunmeier, BASF, Stockton, CA*
- 3:35 Alfalfa Varieties: Yield and Pest Management Implications—*Craig Giannini and Dan Putnam, UC Davis*
- 3:50 Weed Identification Contest –**win Fabulous Prizes, impress your neighbors**—*Brad Hanson, Weed Specialist, UC Davis.*
- 4:15 Return to Base