

The College of Agriculture and Life Sciences

The College of Agriculture and Life Sciences at North Carolina State University provides knowledge and technology that improve the economy, environment and quality of life for the citizens of North Carolina. In the classroom, we equip students for productive careers. Through research, we find solutions and develop systems with economic, environmental and social value. Our extension programs are helping people use knowledge to enhance their lives and livelihoods.

Relationships with many partners enhance the quality and productivity of our research, teaching and extension programs. We extend our appreciation to the field day partners and participants.

To learn more about the College of Agriculture and Life Sciences, contact:

- ❑ Dean's Office – 919.515.2668
Dr. Sylvia Blakenship, *Interim Dean*
- ❑ Academic Programs – 919.515.2614
Dr. Sam Pardue, *Interim Director*
- ❑ North Carolina Agricultural Research Service – 919.515.2717
Dr. David Smith, *Director*
- ❑ North Carolina Cooperative Extension – 919.515.2811
Dr. Joe Zublena, *Director*

The College's Web site:

<http://www.cals.ncsu.edu>

Mountain Horticultural Crops Research Station

Mills River, N.C.

This station was established on 14 acres in 1949 and has since grown to 377 acres. Its growth and expansion are based on the station's success as a leader in laboratory, greenhouse and field studies vitally important to Western North Carolina's economy. Located in the Southern Appalachians in the French Broad River basin with a base elevation of 2,069 feet, MHCRS has a varied topography and climate with land conducive to crop research and evaluation of cultural practices of the region. Research at the center focuses on vegetable crops such as tomatoes, peppers and squash, fruit crops such as apples, peaches, blueberries, strawberries and raspberries, as well as specialty crops, nursery crops and organics. The adjacent Mountain Horticultural Crops Research and Extension Center serves as the office and laboratory headquarters for resident researchers and N.C. Cooperative Extension.

2012 Tomato and Vegetable Field Day

August 16, 2012

Mountain Horticultural Crops
Research Station
Mills River, N.C.

Sponsored by:

North Carolina State University
College of Agriculture and
Life Sciences

*North Carolina Agricultural
Research Service*

*North Carolina
Cooperative Extension*

North Carolina Department of
Agriculture and Consumer Services

North Carolina Tomato Growers
Association

COLLEGE OF

AGRICULTURE & LIFE SCIENCES
ACADEMICS ▲ RESEARCH ▲ EXTENSION

Program

12:30 p.m.
Registration

1:00 p.m.
Welcome and Comments

David Monks, *Assistant Director, N.C. Agricultural Research Service, N.C. State University*

Richard Reich, *Assistant Commissioner, N.C. Department of Agriculture and Consumer Services*

Jeff Chandler, *Director, Mountain Horticultural Crops Research and Extension Center, N.C. State University*

Bill Holbrook, *N.C. Tomato Growers Association*

1:00 - 5:30 p.m.

Tour of Research

**Assessment of Grafting for Resistance/
Tolerance to Verticillium Wilt**

Meagan Iott, Jim Driver, Katherine Brewer and Frank Louws; *Department of Plant Pathology, N.C. State University*

**Cucurbit Downy Mildew Forecasting: Prepare.
Predict. Prevent.**

Mike Adams, Peter Ojiambo, Wendy Britton and Thomas Keever; *Department of Plant Pathology, N.C. State University*

**Enhancing Soil Organic Matter in Alternative
Cropping Systems: An Update**

Erika Larsen, Julie Grossman, Greg Hoyt and Deanna Osmond; *Department of Soil Science, N.C. State University*

**Effects of Organic and Conventional
Production Systems on Water Quality: An
Update**

Deanna Osmond, Joshua Edgell and Greg Hoyt; *Department of Soil Science, N.C. State University*; Dan Line and Greg Jennings; *Department of Biological and Agricultural Engineering, N.C. State University*

**Evaluation of Fungicides for Managing Early
Blight, Late Blight and Bacterial Spot of To-
mato**

Kelly Ivors, Dreama Milks, Ben Reeves, Tim Sorrill and Chris Holmberg; *Department of Plant Pathology, N.C. State University*

**Evaluation of Fungicides for Managing
Phytophthora Blight of Pepper and Squash**

Kelly Ivors, Dreama Milks, Ben Reeves, Tim Sorrill and Chris Holmberg; *Department of Plant Pathology, N.C. State University*

Tomato Miticide Trial

Jim Walgenbach, Steve Schoof and Wallace Souther; *Department of Entomology, N.C. State University*

**Weed Management Research on Tomato and
Pepper**

Daniel Dayton, Sushila Chaudhari, Katie Jennings and David Monks; *Department of Horticultural Science, N.C. State University*; and Greg Hoyt, *Department of Soil Science, N.C. State University*

Response of Grafted Tomato to Herbicides

Sushila Chaudhari, Daniel Dayton, Katie Jennings and David Monks; *Department of Horticultural Science, N.C. State University*

Tomato Variety Replicated Trials 2012

Dilip Panthee, Candice Anderson and Ragy Ibrahim; *Department of Horticultural Science, N.C. State University*

**Evaluation of Insecticides via Drip
Irrigation**

Jim Walgenbach, Steve Schoof and Wallace Souther; *Department of Entomology, N.C. State University*

6:00 p.m.

Pig Pickin' at Lake Julian