Horticultural Crops Research Station
Clinton, N.C.

Established in 1970, the Horticultural Crops Research Station, Clinton, (HCRS-CL) encompasses 349 acres on N.C. 403 about 2.5 miles northeast of Clinton, N.C. Station facilities include an office, shop, implement storage area, fertilizer storage building, greenhouse, two screenhouses, an irrigation well and farm pond. A building for bulk handling and sweetpotato curing was completed in 1987. The average rainfall for the station is 47.63 inches with the largest amounts during the heart of the growing season, June through August. The soils, consisting of a sandy texture, relatively low organic matter and acid in reaction, are typical of those in the upland areas of the Coastal Plain.

The station’s broad and varied research program supports the North Carolina vegetable industry. Its goals: help growers solve short and long-term production problems, identify and evaluate alternative production enterprises and maintain sustainability. Research is conducted on various crops, including sweetpotatoes, cucumbers, tomatoes, pepper, squash, strawberries, watermelons, asparagus, onions, cole crops, corn, soybeans and oil seed crops.

Sweetpotatoes, cucumbers and tomatoes are long-term breeding programs that look for plant materials that offer disease or insect resistance, better quality and/or greater yield. When new materials are proven to offer desirable traits, they are provided to seed companies for release as breeding material or as new varieties.

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. Johnny Wynne, Dean
- Academic Programs — 919.515.2614
  Dr. Kenneth Esbenshade, Director
- North Carolina Agricultural Research Service — 919.515.2717
  Dr. David Smith, Director
- North Carolina Cooperative Extension — 919.515.2811
  Dr. Joe Zublena, Director

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The College’s Web site:
http://www.cals.ncsu.edu

Burch Farms is at 685 Burch Road, Faison, N.C. 28341. For map, see http://tinyurl.com/burchfarms
**Program**

1:00 - 1:30 p.m.  
Registration (at Burch Farms, Inc.)

1:30 — 1:45 p.m.  
Welcome and Remarks  
David Smith, Associate Dean and Director, N.C. Agricultural Research Service, N.C. State University, presiding  
Jimmy Burch, Co-owner, Burch Farms, Inc., Faison, N.C.

1:45 — 2:15 p.m.  
Sweetpotato Commercial Bulk Storage Facility: Technical Aspects of Design and Practical Aspects of Implementation  

2:15 — 2:35 p.m.  
Special Presentation: Sweetpotato Health Food Potential  
Mary Ann Lila, Plants for Human Health Institute, and Den Truong, USDA-ARS Food Science Research Unit and Department of Food, Bioprocessing and Nutrition Sciences, N.C. State University

2:35 — 3:00 pm  
Travel to Horticultural Crops Research Station (HCRS), Clinton, N.C.

3:00 — 6:00 pm  
Tour of Field Research1  
Welcome to HCRS and Field Tour  
Instructions and Remarks  
Rodney Mozingo, Superintendent, HCRS, N.C. Department of Agriculture and Consumer Services  
Update on the IR-4 Program and Items of Sweetpotato Interest  
Roger Batts, Department of Horticultural Science, N.C. State University IR-4 Center

Stop 1  
Beauregard, Covington and Evangeline Evaluations for Storage Root Yield and Quality; Observational Test for Sweetpotato Cultivars in N.C. Seed Program  
Zvezdana Pesic-vanEsbroeck, Rose Caldwell and Marilyn Daykin, Department of Plant Pathology, N.C. State University  
Covington Quality Storage Survey Results, 2010-2011  
Chen Jiang, Jonathan Schultheis, Allan Thornton, Department of Horticultural Science; Zvezdana Pesic-vanEsbroeck, Department of Plant Pathology; and Mike Boyette, Department of Biological and Agricultural Engineering, N.C. State University  
Stand Establishment Considerations: Transplant Holding Time, Plant Size and Planting Depth  
Brad Thompson, Jonathan Schultheis and David Monks, Department of Horticultural Science; N.C. State University

Stop 2  
Weed Control: Dual Magnum Use Consideration, New Herbicide Comparisons, Valor Stale Seed Bed Evaluation  
Katie Jennings, Steve Meyers and Leethaniel Brumfield, Department of Horticultural Science, N.C. State University  
Recommended Practices for Insect Management  
Mark Abney, Department of Entomology, N.C. State University

6:00 — 7:00 pm  
Dinner  
Sponsored by Todd Forbush and Josh Brood, Techmark, Inc. Lansing, Mich.

6:15 — 6:45 pm  
(admin HCRS Packing Shed)  
Administrative Updates  
College of Agriculture and Life Sciences Update  
Johnny Wynne, Dean, College of Agriculture and Life Sciences, N.C. State University  
N.C. Department of Agriculture and Consumer Services Update  
Richard Reich, Assistant Commissioner, N.C. Department of Agriculture and Consumer Services  
North Carolina Sweet Potato Commission, Inc. Update  
Sue Johnson-Langdon, Executive Director, N.C. Sweet Potato Commission, Inc.

7:00 pm  
Adjourn  

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1Pesticide credits will be available. Credit hours will be determined pending approval.