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2021 Tomato Field Day

August 12, 2021

7:30 a.m. – 4:00 p.m.
74 Research Drive,
Mills River, NC 28759, USA

Sponsored by:

NC State University's
College of Agriculture and Life Sciences
N.C. Agricultural Research Service
N.C. Agricultural Foundation, Inc.
NC Cooperative Extension

N.C. Department of Agriculture and Consumer Services

N.C. Tomato Growers Association

NC STATE UNIVERSITY College of Agriculture and Life Sciences

Tour of Research Information Guide

- There will be 11 presentations during each session and 4 poster presentations during the lunch period.
- Everyone will have the opportunity to hear each presentation.
- If you need to return to the registration area during the tour, please let a staff member know and they will bring you back.

Morning Session

7:30 a.m. – 8:30 a.m.	Registration
8:30 a.m. – 11:30 a.m.	Field Tours
11:30 a.m. – 1:00 p.m.	Lunch, Vendor Trade Show and Presentations

Afternoon Session

12:00 p.m.	Registration
12:00 p.m. – 1:00 p.m.	Lunch, Vendor Trade Show and Presentations
1:00 a.m. – 4:00 p.m.	Field Tours

Field Presentations

Compatibility of acaricides and insecticides with phytoseiulus persimilis – a specialist predator of twospotted spider mite.
Tom Bilbo, Jim Walgenbach, *NC State's Dept of Entomology and Plant Pathology*

Evaluation of tomato breeding lines for resistance to late blight
Ann Piotrowski, *NC State's Dept of Horticulture Science*

Evaluation of tomato lines in bacterial speck and bacterial spot trials 2021
Dilip Panthee, *NC State's Dept of Horticulture Science*

Evaluation of tomato varieties in replicated trials 2021
Dilip Panthee, *NC State's Dept of Horticulture Science*

Fungicide spray program for tomatoes
Inga Meadows, *NC State's Dept of Entomology and Plant Pathology*

Hands-on stations to highlight produce safety practices
Elena Rogers, *NC State Extension, Food Safety*

Interaction of living mulches and insecticides on pollinators, beneficial arthropods, and pests of cucurbits.
Tom Bilbo, Emily Ogburn, Steve Schoof, Jim Walgenbach, *NC State's Dept of Entomology and Plant Pathology*

Management of bacterial diseases of pepper
Ying-Yu Liao, *NC State's Dept of Entomology and Plant Pathology*

On-farm trial to evaluate commercial varieties for tomato production in North Carolina.
Reza Shekasteband, *NC State's Dept of Horticulture Science*

Resistance to tomato spotted wilt virus and emerging orthotospoviruses
Anna Whitfiled, *NC State's Dept of Entomology and Plant Pathology* (Emerging Plant Disease and Global Food Security)

Smartphone-based assays for rapid in-field detection of plant pathogens on tomato
Oindrilla Hossain, Tatsiana Shymanovich and Jean Ristaino, *NC State's Dept of Entomology and Plant Pathology*

Poster Presentations

EmPOWERing mountain food systems - Collaborative farming project in southwestern N.C. counties
Laura Lauffer, *Extension Associate & Project Director, EmPOWERing Mountain Food Systems*

Evaluating heirloom-type tomato breeding lines for organic and conventional production
Jackie Blume, Katie Learn, Ann Piotrowski, Margaret Bloomquist, Jeanine Davis, Dilip Panthee, *NC State's Dept of Horticulture Science*

Managing your plastic mulch film, end of season
Craig Mauney, *NC Cooperative Extension Area Specialized Agent, Commercial Vegetable & Fruit Production - Western Region*

TOMI II: A multi-state effort to breed tomatoes for commercial organic farmers
Luping Qu, Margaret Bloomquist, Jeanine Davis, *NC State's Dept of Horticulture Science*

Lunch and Comments

Jeff Chandler, *Director, NC State University's Mountain Horticultural Crops Research and Extension Center*

Dr. Steve Lommel, *Associate Dean and Director, NC Agricultural Research Service*

Sandy Stewart, *Assistant Commissioner of Agricultural Services for the North Carolina Department of Agriculture and Consumer Services*

William Shelton, *North Carolina Tomato Growers Association*

About the Mountain Horticultural Crops Research and Extension Center

The Mountain Horticultural Crops Research and Extension Center opened on 14 acres in 1949. A new administrative and laboratory building was built in 1987, and the Center has grown to 397 acres. The Center is home to research and extension faculty and staff from six academic departments of NC State's College of Agriculture and Life Sciences and College of Natural Resources. The Science House's Mountain Satellite Office and N.C. Cooperative Extension's District Office are housed here.

The growth and development of the Center is based on the success of its faculty and staff as leaders in laboratory, greenhouse and field studies vitally important to Western North Carolina's agricultural economy. Located in the Southern Appalachians' French Broad River basin at a base elevation of 2,069 feet, the MHCREC has a varied topography and climate conducive to crop research and evaluation of cultural practices of the region. The Center's core research areas are apples, tomatoes and ornamentals. Additional research efforts include bioenergy crops, corn, hops, peaches, vegetables, soybeans, and other specialty and alternative crops.

Pesticides credits will be available for today's field day. Please see Craig Mauney or Jessica Edney for more information.

About the College of Agriculture and Life Sciences

The College of Agriculture and Life Sciences educates students through its Office of Academic Programs, seeks new knowledge through its research division, the North Carolina Agricultural Research Service, and extends educational programs throughout the state through NC Cooperative Extension.

Our strong relationships with our many partners enhance the quality and productivity of our research, teaching and extension programs.

We extend our appreciation to all our field day partners and participants.

Learn more at cals.ncsu.edu