

# Fruit Field Day Set For Biglerville Lab

UNIVERSITY PARK (Centre Co.) — Tree fruit growers will have the opportunity to see the latest in fruit production research at a Grower Field Day at Penn State's Fruit Research Laboratory in Biglerville on July 20 from 8:30 a.m. to 3:00 p.m.

Penn State entomologists, horticulturists and plant pathologists will be on hand to discuss the latest advances in fruit production research. Tours and presentations will highlight new research and visitors will have the opportunity to discuss specific concerns.

"At Biglerville our scientists are carrying out interdisciplinary research essential to the continued success of the Pennsylvania fruit

industry," says Dr. Charles R. Krueger, associate dean for research and associate director of the agricultural experiment station in Penn State's College of Agriculture. "The field day is intended to afford visitors the opportunity to learn about our latest research results and see our facilities."

"The activities and tours will focus on research aimed at reducing pesticide use through integrated pest management and the evaluation of cultural practices and growth control chemicals affecting tree growth and winter hardiness," says Dr. Kenneth D. Hickey, professor of plant pathology and scientist-in-charge of the Biglerville facility. "We will dis-

uss the impact and application of new advances in biotechnology, artificial intelligence and ecology as part of an integrated past management system in tree fruits. We are including research being conducted in the laboratory and in the field."

The entomology faculty presentations will center on two major tree fruit pests, the tufted apple budmoth and the lesser peach tree borer. Areas of special interest will include explanations of monitoring and understanding insecticide resistance, the influence of ground cover management practices and pheromone-mediated mating disruption.

Entomologists also will discuss

ways to understand and manage resistance in acaricides.

Horticultural researchers will focus on evaluation of apple and peach rootstocks, physiological stress affecting winter hardiness in peaches and the use of growth control chemicals on apples. There also will be an evaluation of seedless table grapes.

Penn State horticulturists will explain studies on post-harvest physiology and controlled atmosphere storage of apples.

In plant pathology the emphasis will be on controlling fungal, bacterial and viral diseases through integrated disease management practices.

Growers will see the latest

developments in determining fungicide application rates to tree-row volume and application method. Test results for SBI fungicide applied at different rates and timing for disease control on apples, peaches and cherries will be presented.

Plant pathologists will discuss integrated control measures for Cytospora canker on stone fruits. There will be an overview of problems caused by nematodes with an emphasis on dagger nematodes and the tomato ringspot virus. Specific research areas to be covered include establishing dagger nematode damage threshold values, studying the effect of ground cover management on dagger nematode population dynamics and screening for genetic resistance to tomato ringspot virus. Researchers will explain basic work on dagger nematode biology, ground covers and soil amendments.

Penn State advances in artificial intelligence will include an overview and demonstration of expert systems for managing diseases and insects of tree fruits. The 180-acre Fruit Research Laboratory, operated by Penn State's College of Agriculture, has been providing information for the benefit of the fruit industry for more than 60 years. The laboratory is located on University Drive which is off of Route 234 west of Biglerville in Adams County. Parking and admission are free.

Lunch will be served by the Fruit Research Lab staff. The cost is \$5 per person. Lunch reservations should be mailed no later than July 13 to Peg Shaffer, Penn State Fruit Research Lab, P.O. Box 309, Biglerville, PA 17307.

For more information about the Grower Field Day, contact Shaffer or the faculty at the Fruit Researcher Lab at 717/677-6116.

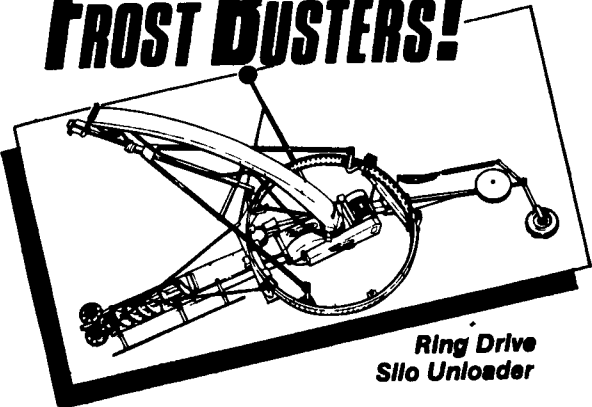


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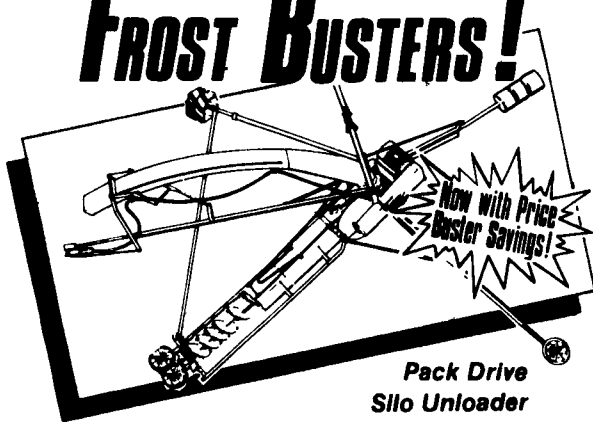
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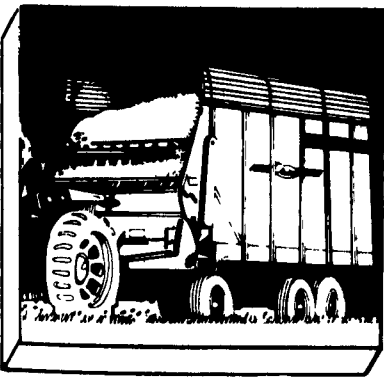
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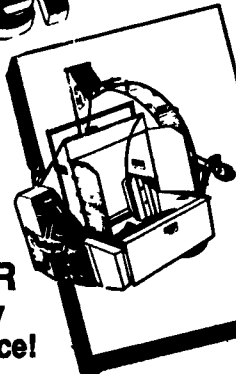
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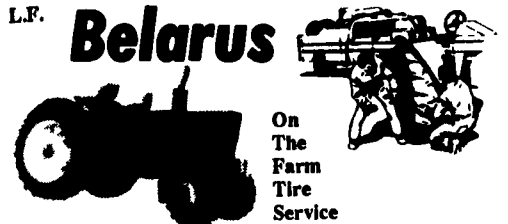
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