The Nation’s First State Agricultural Experiment Station

Scientists at The Connecticut Agricultural Experiment Station (CAES) investigate the growth of plants and study their pests. Research continues on invasive plants, diseases, insects, ticks, soil and water quality, biofuels, and food safety. Staff members also performed analyses for state agencies, registered 316 nurseries, conducted 748 inspections, and certified 2,628 honey bee colonies. Thousands of individual plants or other regulated materials being shipped into or from Connecticut were examined in 2008. The Station began its work in a laboratory at Wesleyan University in Middletown in October 1875. It moved to Yale University in 1877 and to its current location in New Haven in 1882. The research at CAES has helped keep farmers on the farm, and it is the Connecticut farmer who has preserved our pastoral landscape.

Visit outdoor exhibit gardens
Nursery growers' gardens (plants discovered by Connecticut growers) in New Haven, Windsor, and at Lockwood Farm in Hamden
Nursery growers' Plant Identification Garden at the Valley Laboratory in Windsor
Bird and Butterfly Garden at Lockwood Farm

Research Farm
The Experiment Station's 75-acre research farm in Hamden, called Lockwood Farm, is open to the public during normal business hours. Parking is available inside the gate.

Experiment Station Associates
P.O. BOX 3560, AMITY STATION
NEW HAVEN, CT 06525

The ESA is a proactive, volunteer group of Station supporters who assist in promoting the research work carried out at the CAES. All interested persons are welcome to join. Benefits include participation in field trips to Connecticut's leading agricultural businesses and publications highlighting the latest research developments at the Station. For more information, visit the Station web site and click on the Experiment Station Associates.

Printing of this leaflet was funded by the Experiment Station Associates

Join us at our 2009-2010 events

2009
- Associates Annual Meeting — March 30, 1 p.m.
- Spring Open House — April 23, 1 p.m.
- Plant Science Day — August 5, 10 a.m.

2010
- Associates Annual Meeting — March 29 (TBA)
- Spring Open House — April 24, 1 p.m.
- Plant Science Day — August 4, 10 a.m.

The Connecticut Agricultural Experiment Station
2009-2010

The Experiment Station's web page features an extensive electronic Plant Pest Handbook, arranged by plant name, which covers diseases, insects, and cultural and nematode problems of Connecticut plants. During 2008, there were 1,758,400 page views for the entire web site.

Hours
Residents may call or come to the Station during normal business hours, 8:30am-4:30pm, Monday through Friday, except state holidays.

Telephone Numbers
New Haven area: Plants: (203) 974-8601
Insects: (203) 974-8600, Soils: (203) 974-8521
Hartford area: All inquiries: (860) 683-4977
Statewide: Toll free: (877) 855-2237

Locations
Main Laboratories (203) 974-8500
123 Huntington St—New Haven, CT 06504-1106
Valley Laboratory (860) 683-4977
153 Cook Hill Road—Windsor, CT 06095-0248
Lockwood Farm (203) 974-8618
890 Evergreen Avenue—Hamden, CT 06518-2361
Griswold Research Center (860) 376-0365
190 Sheldon Road—Griswold, CT 06351-3627

WWW.CT.GOV/CAES

Putting science to work for society

The Experiment Station is a state-supported scientific research institution dedicated to improving the food, health, environment and well-being of Connecticut's residents since 1875

WWW.CT.GOV/CAES
**Food**

Beach plum is a fruiting shrub native to the coastal dunes of the Northeast. Beach plum jam has become a premium product. We are growing plants from seeds collected from 35 sites from Maine to Delaware. Grown commercially, we have found that heavy-yielding plants produce as much as 35 lbs/plant.

**Health**

Bed bug, Cimex lectularius, showing partially digested blood

Outbreaks of bed bugs have recently been reported in many areas of Connecticut. We are testing the efficacy of traps in detecting infestations in buildings and evaluating the effectiveness of insecticides in controlling these insects.

Asian Tiger Mosquito, Aedes albopictus

Stateline scientists discovered an introduction of the Asian tiger mosquito, Aedes albopictus, for the first time in New England at a commercial tire recycling plant in Connecticut. Seasonal establishment in the surrounding woodlands was documented, but the mosquito did not survive winter conditions to enable permanent colonization. Scientists continue to monitor sites for re-invasion as global warming and milder winter temperatures may provide suitable conditions in the future for colonization of this invasive species.

**Environment**

Phyto remediation uses plants to clean contaminated soil. Research within the Department of Soil and Water focuses on the plant-facilitated remediation of soils contaminated with persistent organic pollutants such as PCBs, DDT/DDE, and Chlordane.

Nymphoides peltata (yellow floating heart), defined by CT Public Act No. 04-203 as invasive and banned from sale or movement since October 1, 2005, was found by CAES staff members in a small, private pond in Columbia, CT on August 11, 2008. This plant also has been found in RI, MA, and VT.

A Nymphoides peltata infestation in a small pond in northeastern Connecticut

Station scientists are determining the concentration of pesticides in pollen collected by foraging honey bees. These results will help us determine what role pesticides may play in the decline of honey bee populations.

Location A July 13
Location B July 31
Location A August 21
Location B September 18
Location C September 9

**Food**

Did you know that a honey bee can visit flowers a mile or two away from the hive?

**Health**

Did you know that the first culture of the West Nile virus in North America was accomplished by Stateline scientists in 1999?

**Environment**

Did you know that 61% of the 139 lakes surveyed thus far in Connecticut have one or more invasive plant species present?

**Public Service**

Station staff members answered 30,000 public inquiries in 2008 and have attended or participated in many exhibits, conferences, and outreach programs throughout the state.