

Cultivating Cumberland

November - 2023

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Accelerated Funding for High Tunnels	1
Funding Available for Cover Crop	2
2024 New Jersey Agricultural Convention	2
Acute Bovine Pulmonary Emphysema (Fog Fever)	3
Farmer Grant Program 2024 Call for Proposal	3
USDA Offers New Crop Insurance	4
Salem County Horse Contracts Eastern Equine Encephalitis	5
Calendar of Events & Regularly Scheduled Meetings	6-7

Attachments:

- Characteristics of Consumers Who Buy Value-Added Products
- Produce Safety Webinar Series
- Keeping People Safe is Good for Your Business
- Pest Alert: Box Tree Moth
- 2024 NJ Agricultural Convention and Trade Show
- Interested in Farmland Preservation?

Cooperating Agencies: Rutgers, The State University of New Jersey, U.S. Department of Agriculture, and Boards of County Commissioners, Rutgers Cooperative Extension, a unit of the Rutgers New Jersey Agricultural Experiment Station, is an equal opportunity provider and employer.

Accelerated Funding for High Tunnels Now Available for New Jersey Producers

Hamilton Square, N.J., Oct. 19, 2023 -- The USDA's Natural Resources Conservation Service (NRCS) in New Jersey is now accepting applications for High Tunnels through the Environmental Quality Incentives Program (EQIP) and Agricultural Management Assistance (AMA).

High Tunnels are designed to help producers extend the growing season, increase productivity, keep plants at a steady temperature, and conserve water and energy. The EQIP high tunnel signup will be administered through the ACT NOW approach, which is a targeted, rapid, and streamlined application and contract approval process.

While NRCS accepts applications year-round, NRCS-NJ has established an evaluation period cut-off date for ACT NOW funding of **January 26, 2024**. Applications through ACT NOW funding will be selected if the minimum threshold ranking score is met. Applications submitted prior to the cut-off will be assessed and ranked as soon as they are received.

Based on fund availability, application assessments with a ranking score of the established threshold or greater will be preapproved immediately, allowing the applicant to **ACT NOW** and achieve contract approval to begin practice installation without being evaluated against other submitted assessments. Application assessment ranking scores less than the established threshold will be batched and funded in ranking order as funding allows.

For more details on EQIP, please contact your local USDA Service Center (Vineland Service Center, (856) 285-7678 Ext. 3, 1318 S Main Rd Bldg 5A, Vineland, NJ 08360-6511) or visit <https://www.nj.nrcs.usda.gov>

ACT NOW Funding Available for Cover Crop, No-Till and Reduced Tillage Climate-Smart Practices

Michelle Pedano NRCS; Michelle.Pedano@usda.gov

Hamilton Square, N.J., October 6, 2023 – The USDA's Natural Resources Conservation Service (NRCS) in New Jersey is now accepting applications for climate-smart practices through Environmental Quality Incentives Program (EQIP) funded by the Inflation Reduction Act (IRA). Applications through ACT NOW funding for cover crop, no-till and reduced (minimum) tillage practices may be accelerated if a threshold ranking score is met.

Through this unique opportunity, producers can qualify for these practices on ground that have already been under contract by the same producer. Cover crop, no-till and reduced tillage must address an existing resource concern to be eligible for funding and can be contracted for up to five years.

While NRCS accepts applications year-round, NRCS-NJ has established its first rank batching cutoff date for ACT NOW cover crop, no-till and reduced tillage funding for **November 17, 2023**. Applications submitted prior to the cut-off will be assessed and ranked as soon as they are received.

Based on fund availability, application assessments with a ranking score at or above the established ranking threshold will be preapproved immediately, allowing the applicant to **ACT NOW** and achieve contract approval to begin practice installation without being evaluated against other submitted assessments. Application assessment ranking scores less than 20 points will be batched and funded in ranking order as funding allows.

For more details on EQIP, please contact your local USDA Service Center (Michelle Pedano, Vineland Service Center, Natural Resources Conservation Service, (856) 285-7678 Ext. 3, 1318 S Main Rd Bldg. 5A, Vineland, NJ 08360-6511) or visit <https://www.nj.nrcs.usda.gov>.

2024 New Jersey Agricultural Convention and Trade Show

February 6-8, 2024; The 2024 Annual New Jersey Vegetable Growers Meeting and Agricultural Convention is being held at Harrah's Resort and Waterfront Conference Center 777 Harrah's Blvd. In Atlantic City, New Jersey. This is the same location from previous years. To register and make hotel reservations go to <https://vganj.com>. The program this year covers a wide range of topics including soil health, hemp production, basic wine grape production, tree fruit establishment, high tunnel production, nursery and ornamentals, strawberry production, transition to organics, blueberry production, food safety, retail marketing, new agricultural technology, tomato pest problems among many other topics. On Thursday February 8 is a whole day session on Worker Protection Safety Respiratory Protection Training which has 8 core credits. You need to register separately and the workshop is limited to 30 participants. The complete program is attached to this newsletter.

Acute Bovine Pulmonary Emphysema (Fog Fever)

Michael Westendorf; October 11, 2023; Plant and Pest Advisory

A metabolic syndrome that sometimes affects ruminants, particularly cows on lush fall pastures is Acute Bovine Pulmonary Emphysema (ABPE), sometimes referred to as “Fog Fever”. ABPE can occur in ruminants, especially cattle, transitioning from dry summer pastures or poor quality forage in the fall, to pastures that may be lush and fresh. Cows may develop signs of lung disease within a few days to two weeks after the pasture change. Death may occur within several days after the appearance of clinical signs. It is nearly always fatal.

This change can result in an undesirable toxin produced by rumen fermentation. Tryptophan is an amino acid found in protein. It is converted to indoleacetic acid and then to 3- methylindole (3MI) in the rumen. 3MI is absorbed into the blood, transferred to the lungs and in the lungs can cause damage to lung cells. It can occur in a variety of forage types, especially when the rumen is not properly adapted to the new forage. There is no effective treatment, producers should focus on prevention.

It occurs in lush regrowth forage, and is usually seen in the fall. Preventative measures:

1. Feed cattle good quality dry hay for a few days and then slowly introduce them to the lush pastures by increasing grazing time over a 10-14 day period.
2. Delay grazing of lush pastures until after a hard frost.
3. Cut lush fall pastures for hay prior to grazing.
4. Graze prior to lush fall regrowth.
5. Consider feeding an ionophore such as Rumensin® or Bovatec® before turning the cattle onto the lush pastures. These compounds change the rumen fermentation of tryptophan and may decrease the chances for ABPE or “Fog Fever”. Consult your veterinarian for advice if you anticipate using either of these compounds to prevent ABPE.

Acute Bovine Pulmonary Edema and Emphysema in Beef Cattle: Causes and Prevention.
(Beef Cattle Handbook; D.C. Honeyfield and J.R. James R. Carlson).

Farmer Grant Program 2024 Call for Proposal

SARE Farmer grant proposals are due November 14, 2023. Approximately \$800,000 has been allocated to fund projects for this grant cycle. Awards of up to \$30,000 are available, depending on the complexity of a project. This is a good opportunity for a grower to try new practices on their operation. Proposals are submitted online at: <https://projects.sare.org/>. If you are unable to use the online system please contact them as soon as possible at northeast-fr@sare.org or 802-656-7650.

USDA Offers New Crop Insurance Program for Producers Using Controlled Environments

WASHINGTON, Oct. 2, 2023 – Today, the U.S. Department of Agriculture (USDA) is announcing a new crop insurance program designed for agricultural producers who use controlled environments in their operations. The new Controlled Environment program from USDA's Risk Management Agency (RMA) is specifically for plants grown in fully enclosed controlled environments and provides coverage against plant diseases subject to destruction orders. Available beginning in the 2024 crop year, the Controlled Environment program provides a risk management resource for urban, specialty crop, and organic producers who often use controlled environments as a major part of their operations.

"We are always looking to improve and expand the crop insurance resources we offer to agricultural producers, and the new Controlled Environment program will greatly benefit urban, specialty crop, organic and other producers who grow in controlled environments," said RMA Administrator Marcia Bunger. "Controlled environment agriculture is a quickly growing sector in the Nation's food production, and this new option is part of USDA's broader effort to support urban agriculture and new and better markets for American producers."

The Controlled Environment program is a dollar plan of insurance, which bases the insured's guarantee on inventory values reported by the producer, and provides coverage against plant diseases when the plants must be destroyed under a federal or state destruction order.

The Controlled Environment program adds to two other federal insurance products available to nursery and innovative agricultural producers by providing benefits that are not available under the other programs, such as:

- Offer coverage for all Controlled Environment plants, including cuttings, seedlings, and tissue culture.
- Offer crop insurance coverage through a streamlined application and policy renewal process.
- Offer new crop insurance coverage specific to the disease risk to plants in Controlled Environment operations.
- Offer insurance for producer-selected plant categories for Controlled Environment that are not in other nursery insurance program.
- Allow Controlled Environment operations to have single peril Controlled Environment insurance to be purchased as a standalone policy or in conjunction with other nursery insurance.

The first sales closing date is Dec. 1, 2023.

The Controlled Environment program will be available in select counties in Alabama, California, Colorado, Delaware, Florida, Hawaii, Iowa, Kentucky, Maine, Maryland, Michigan, Minnesota, New York, New Jersey, North Carolina, Ohio, Oregon, Pennsylvania, Tennessee, Texas, Utah, Virginia, Washington, West Virginia and Wisconsin.

Salem County Horse Contracts Eastern Equine Encephalitis

Jeff Wolfe, New Jersey Department of Agriculture

TRENTON, N.J. — A 13-year-old Salem County Standardbred mare has been identified as the second case of Eastern Equine Encephalitis (EEE), a serious mosquito-borne illness in horses, in New Jersey for 2023. The horse's vaccination status is uncertain. The mare was humanely euthanized on October 13, 2023. There had been one other reported horse case of EEE in New Jersey in Gloucester County in September.

EEE causes inflammation of the brain tissue and has a significantly higher risk of death in horses than West Nile Virus (WNV) infection. West Nile Virus is a viral disease that affects a horse's neurological system. The diseases are transmitted by a mosquito bite. The virus cycles between birds and mosquitoes with horses and humans being incidental hosts. EEE infections in horses are not a significant risk factor for human infection because horses (like humans) are "dead-end" hosts for the virus.

In general, most regions in New Jersey have a reported mosquito population near the 5-year average. The first EEE positive mosquito pool was detected in Gloucester County this year (<https://www.nj.gov/health/cd/statistics/arboviral-stats/>). Livestock owners are strongly encouraged to vaccinate against WNV, EEE, and other mosquito-borne diseases. Effective equine vaccines for EEE and WNV are available commercially. Horse owners should contact their veterinarians if their horses are not up to date on their vaccinations against both EEE and WNV.

"We continue to encourage horse owners to be vigilant in vaccinating their animals against these diseases spread by mosquitoes," New Jersey Assistant Secretary of Agriculture Joseph Atchison III said. "Vaccinated animals are much less likely to contract deadly diseases such as EEE and West Nile Virus."

For more information about EEE in horses, visit the New Jersey Department of Agriculture website at: <http://www.nj.gov/agriculture/divisions/ah/diseases/diseaseworksheets.html>

EEE and West Nile virus, like other viral diseases affecting a horse's neurological system, must be reported to the state veterinarian at 609-671-6400 within 48 hours of diagnosis. The New Jersey Animal Health Diagnostic Laboratory is available to assist with EEE and WNV testing and can be reached at 609-406-6999 or via email – jerseyvetlab@ag.nj.gov. Learn more about the NJ Animal Health Diagnostic lab at www.jerseyvetlab.nj.gov.

Calendar of Events

- Indicates a newly added event

- **November 3**

North Jersey Post-Harvest Grape Meetings; 9:30 AM Unionville Winery 9 Rocktown Rd, Ringoes, NJ 08551 NJ Pesticide Recertification Credits Offered CORE 1 unit, 1A 4 units, 10 4 units, PP2 4units. The meetings will provide attendees with a look at vineyard spray practices using 2023 pesticide spray records from vineyards throughout the state. Drs. Peter Oudemans, Thierry Besancon, and Anne Nielsen will review records and discuss ways to improve chemical choices, spray schedules and resistance management. We welcome all levels of grape growers, from beginners to seasoned professionals. Growers are encouraged to bring pesticide records or E-mail them to either Hemant Gohil (gohil@njaes.rutgers.edu) or Megan Muehlbauer (muehlbauer@njaes.rutgers.edu) prior to the meeting.

November 8-9

Northeast Greenhouse Conference and Expo; Doubletree by Hilton, Manchester, NH; Educational sessions focusing on advanced biocontrol, disease management, business and marketing, greenhouse vegetables, perennial production, and some sessions in Spanish will be offered. Come visit vendors at the trade show with three dedicated hours in each day of the program. Learn more at www.negreenhouse.org

- **November 9**

Characteristics of consumers who buy value-added products at agricultural markets; participants will learn many things about the value-added products. To register go to <https://go.rutgers.edu/unaqa62z> see attached flyer for more

November 14-16

Mid-Atlantic Crop Management School; Princess Royale Oceanfront Resort, Ocean City, MD. Registration is through Eventbrite this year and all information about the event, including program booklet and registration link, can be found here: <https://bit.ly/MidAtlanticCropSchool> New for 2023 the Mid-Atlantic CCA Board will be hosting an off-site evening reception on Tuesday November 15th. Please register for this limited seating reception when you register for the event.

- **November 16**

Produce safety webinar series; refresh and recharg worker training programs 3:30pm-5:00pm see attached flyer for details.

- **November 17**

South Jersey Post-Harvest Grape Meetings; 9:30 AM Cedar Rose Vineyards 431 Kenyon Ave, Millville, NJ 08332 NJ Pesticide Recertification Credits Offered CORE 1 unit, 1A 4 units, 10 4 units, PP2 4units. The meetings will provide attendees with a look at vineyard spray practices using 2023 pesticide spray records from vineyards throughout the state. Drs. Peter Oudemans, Thierry Besancon, and Anne Nielsen will review records and discuss ways to improve chemical choices, spray schedules and resistance management. We welcome all levels of grape growers, from beginners to seasoned professionals. Growers are encouraged to bring pesticide records or E-mail them to either Hemant Gohil (gohil@njaes.rutgers.edu) or Megan Muehlbauer (muehlbauer@njaes.rutgers.edu) prior to the meeting.

November 26-28

Southeast Vegetable & Fruit Expo Myrtle Beach, SC: Door prizes, NC & SC Pesticide Recertification Credits and CCA credits educational sessions, and more.

November 27-December 1

Irrigation Show & Education Week Henry B. Gonzalez Convention Center San Antonio, Texas; Find more info at www.irrigation.org/

- **November 29**

Keeping People Safe is Good for your Business; free training program on zoonotic diseases to equip your agribusiness with the knowledge and tools to keep your workers and customers safe. Email jjohns@georgiasouthern.edu for more information.

- **December 5-7**

New Jersey Green Expo; The Borgata Hotel and Casino Atlantic City NJ sign up at www.njturfgrass.org or visit <https://book.passkey.com/event/50463830/owner/9863/home>

December 5-7

Washington State Tree Fruit Association Annual Meeting Three Rivers Convention Center Kennewick, Wash; Find more info at www.wstfa.org/annual-meeting/

December 5-7

Connect, Innovate, Grow; Great Lakes Fruit, vegetable & Farm Market Expo. Grand Rapids, MI. Registration opens October 15. More information at www.glexpo.com

January 6-13, 2024

Pennsylvania Farm Show; Harrisburg, PA; The largest indoor agricultural exposition under one roof in the nation; Save the date, more info to come

January 23-24, 2024

Empirestate Producers Expo 2024- New exciting changes coming this year. Small fruit sessions will be returning and possibly others. More sessions planned for each day this year. www.nysvga.org

February 6-8, 2024

New Jersey Agricultural Convention and Trade Show, Harrah's Resort Waterfront Conference Center, Atlantic City, NJ Details to follow

February 8–10, 2024

PASA Sustainable Agriculture Conference Lancaster, PA; Our annual conference, entering its 33rd year, draws a diverse audience of rural and urban farmers, educators, advocates, entrepreneurs, community groups, artisans, researchers, policymakers, home cooks and gardeners, youth, and others for four days of learning on sustainable agriculture and food system topics. More information at <https://pasafarming.org/2023-sustainable-agriculture-conference/>

March 11-15, 2024

Florida Postharvest Horticulture Tour; Early Registration will open on October 16th. Registration Details: Early Registration (\$750) Ends- November 20, 2023; Regular Registration (\$800) Ends December 20, 2023; Late Registration (\$850) Ends February 2, 2024. The registration fee includes transportation during the tour via commercial coach with Wi-Fi access. Hotel and meal costs are the responsibility of each participant. A block of hotel rooms is reserved for the group during the tour and each participant pays upon check out. A limited number of educational discounts are available for university and government employees. For more details contact Adrian Berry at adberry@ufl.edu.

Regularly Scheduled Meetings

Pesticide Credit Exams

November 14th, 9:30A.M.-2:30P.M.

RCE - Cumberland, NJ

Virtual testing available.

Sign-up, exam schedule,
and find more information at
<https://pacer.rutgers.edu/>

Manuals available for purchase at
291 Morton Ave
Millville, NJ 08332

Cumberland County Agriculture Development Board

Meetings are held on the 3rd
Tuesday of each month.
Meetings start at 7 p.m.

Virtual Meetings Information
can be found on the
Public Meeting Calendar on
cumberlandcountynj.gov/calendar

For more information call the Dept.
of Planning, Tourism,
and Community Affairs
at 856-453-2175

Chair: Al Caggiano, Jr
Commissioner Liaisons:
Victoria Groetsche-Lods

Cumberland County Board of Agriculture

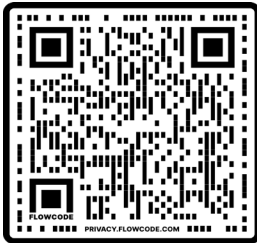
Meetings are held on the
3rd Thursday of September-October
at 7 p.m., November - March
at 6 p.m., & April-May 7 p.m.
in-person at RCE

Next meeting
November 16, 2023

Virtual Meeting Information
<https://rutgers.zoom.us/my/smangia>
Meeting ID: 529 557 9817
Passcode: Sal2020
or call in at 1 (646) 558 - 8656

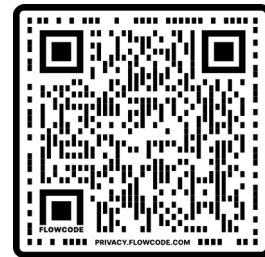
President: Keith MacIndoe
Commissioner Liaisons:
1. Victoria Groetsche-Lods
2. Joseph Sileo
Alt. John Capizola Jr.

Cultivating Cumberland Newsletter



<https://go.rutgers.edu/lr39fky>

Plant & Pest Advisory

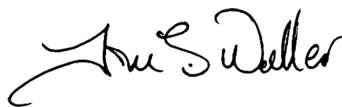


<https://go.rutgers.edu/8ookejzo>

Sincerely,



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Pesticide User Responsibility: Use pesticides safely and follow instructions on labels. The user is responsible for the proper use of pesticides, residues on crops, storage and disposal, as well as damages caused by drift

Use of Trade Names: Trade names are used in this publication with the understanding that no discrimination is intended and no endorsement is implied. In some instances the compound may be sold under different trade names, which may vary as to label.

WE **R** HERE WHEN YOU NEED **US**

Have you visited the Cumberland County website for the
Present and /or past issues of “Cultivating Cumberland”?

It's a great resource for information and dates...

<https://Cumberland.njaes.rutgers.edu/>

Public Notification and Non-discrimination Statement

Rutgers Cooperative Extension is an equal opportunity program provider and employer. Contact your local Extension Office for information regarding special needs or accommodations. Contact the State Extension Director's Office if you have concerns related to discrimination, 848-932-3584.

Cooperative Extension of Cumberland County



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Cooperative Extension of Cumberland County
Extension Education Center
291 Morton Avenue
Millville, NJ 08332-9791

RUTGERS
New Jersey Agricultural
Experiment Station



Characteristics of Consumers Who Buy Value-Added Products at Agricultural Markets

Thursday, November 9, 2023

6 to 7:30 p.m.

Rutgers Cooperative Extension
355 Court House - South Dennis Road
Cape May Court House, NJ 08210

Presenter:

Ramu Govindasamy, Ph.D.

Professor and Chair, Dept. of Agricultural,
Food and Resource Economics & Extension
Specialist, Rutgers Cooperative Extension



Participants will learn...

- Who buys value-added products at the Agricultural Direct Markets, Agritourism Operations, and Local Food Markets?
- Who ranks the availability of value-added products as important while participating in an agritourism event?
- Consumer expenditure ranges on value-added products by demographics.

Register at: <https://go.rutgers.edu/unaga62z>
For information, call 609-465-5115, ext. 3601



PRODUCE SAFETY WEBINAR SERIES



Billy Mitchell, M.S.
Florida Organic Growers

Betsy Bihn, Ph.D.
Produce Safety Alliance



REFRESH AND RECHARGE

Worker Training Programs

📅 November 16, 2023 ⌚ 3:30 PM - 5:00 PM



Jacqui Gordon, M.S.
WSTFA

Kristin Woods, Ph.D.
Tuskegee University



Let's #MakeCONTACT | @ps_sci



Scientific Challenges and Cost-Effective Management of Risks
Associated with Implementation of Produce Safety Regulations

contactproducesafety.ifas.ufl.edu

Register Now

KEEPING PEOPLE SAFE IS GOOD FOR YOUR BUSINESS



INSTITUTE FOR HEALTH LOGISTICS & ANALYTICS

FREE training program
on Zoonotic Diseases to
equip your agribusiness
with the knowledge &
tools to keep your
workers &
customers
safe.

Scan/click to
register for
an upcoming
session

WHAT TO EXPECT:

- A short, engaging & informative session (only 2 hrs)
- Flexibility to fit your needs (virtual & in-person options)
- No cost to you (we're grant-funded)

WHAT YOU'LL RECEIVE:

- A customized plan to implement preventative measures immediately
- A Certificate of Completion to showcase your safety commitment
- Peace of mind that you're creating a safe experience

Nov 29, 2023
12-2:00PM EST



Jan 9, 2024
5-7:00PM EST



INSTITUTE FOR HEALTH
LOGISTICS & ANALYTICS (IHLA)
Georgia Southern University

jjohns@georgiasouthern.edu
Georgiasouthern.edu/IHLA-training

912-478-0302
(& PRESS "3")



Pest Alert

Box Tree Moth (*Cydalima perspectalis*)

The box tree moth is an invasive pest that primarily feeds on boxwood species (*Buxus* spp). In its native range, it also feeds on burning bush (*Euonymus alatus*), Japanese spindletree (*E. japonicus*), purple holly (*Ilex chinensis*), and orange jessamine (*Murraya paniculate*) once boxwood in the vicinity are completely defoliated.

Distribution and Spread

The box tree moth is native to temperate and subtropical regions in Asia. It was first reported in Europe in 2007, after which it spread rapidly across European countries and into Western Asia and Northern Africa. In 2018, it was documented in Canada. The rate of spread for the box tree moth has varied since its introduction in Europe, with some cases peaking at 96 miles per year. Long distance movement of the box tree moth across Europe occurred primarily through the movement of infested boxwood plantings.

Box tree moths are highly mobile and are good fliers. Natural spread of this moth in Europe is about 3 to 6 miles per year. One analysis from Europe concluded that natural dispersal from continental Europe to the United Kingdom was possible, suggesting sustained adult flights of over 20 miles.

Damage

In 2014, boxwood made up 15 percent of broadleaf evergreen sales in the United States, and the estimated value was \$126 million (USDA-NASS, 2015). Boxwoods are typically planted as ornamentals



Adult moths (top and bottom left), damage (bottom)

and used for edging, as hedges, and/or clipped into different shapes to make topiaries. The box tree moth can cause heavy defoliation of boxwood plants if populations are left unchecked. Defoliation of existing and new growth can kill the plant. If no foliage is available, larvae have been observed feeding on the bark, which can cause branches or the entire plant to die.

Description

Adult box tree moths generally have white bodies with a brown head and abdomen. Their wings are white and slightly iridescent, with an irregular

thick brown border spanning 1.6 to 1.8 inches. Some adults have completely brown wings with a small white streak on each forewing. Males and females show both colorations.

The eggs are pale yellow and average 0.04 inches in size. They are laid in flat clusters of about 5 to 20 on the underside of boxwood leaves. As they mature, a black spot appears marking the larval head.

Newly hatched larvae have black heads and are green to yellow in color. As they age, dark brown stripes develop on the body. The most mature larvae are about 1.6 inches

long and have thin white and thick black stripes and black dots outlined in white along the length of the body.

Pupae develop inside a silk cocoon and are 0.6 to 0.8 inches long. They are initially green, with black stripes on the back, and turn brown as they mature.

Life Cycle

Adult female box tree moths lay their eggs singly or in clusters of about 5 to 20 in a gelatinous mass on the underside of boxwood leaves. Box tree moths overwinter as larvae. Once temperatures rise, overwintering larvae emerge and typically begin feeding in March, continuing until they pupate in late April to early May. As they develop, they spin silken webs to hold leaves together and create protected areas to feed. They tend to feed on leaves in the lower portion of host plants but reside in the upper portion and remain active until September or October.

Pupation occurs on the host leaves in silk cocoons. If the boxwood host is defoliated, pupation may occur away from the host plant using leaves from the surrounding area. Pupae will typically first appear in April or May and will be present continuously through the summer and into the fall, depending on the local climate and timing of generations.

Adults first emerge from the overwintering generation between April and July, depending on climate and temperature. Subsequent generations are active between June and October. Adults typically live for 2 weeks after emergence.



Egg mass (top), pupa (bottom left), caterpillars (bottom right)

Where To Look

Signs of damage may not appear at the beginning of an infestation because young larvae hide among twigs and leaves. Larvae skeletonize the leaves and feed on the bark, causing defoliation and dryness, leading to the plant's death. Signs of feeding include green-black frass (excrement) and webbing.

The female moths lay their eggs on the underside of the leaves of boxwoods.

Report Your Findings

In Massachusetts, if you find an insect that you suspect is box tree moth (or damaged boxwoods) outside of Barnstable County (Cape Cod), please take photos and submit an online report here:

www.massnrc.org/pests/report.aspx

Growers or landscape professionals can also report possible box tree moth sightings to Tawny Simisky at UMass Extension: tsimisky@umass.edu

APHIS 81-35-040
Issued May 2021
Reporting info revised by MDAR August 2023

USDA is an equal opportunity provider, employer, and lender.

Credits: Light-colored adult moth, caterpillar, and damage photos courtesy of Matteo Maspero and Andrea Tantardini, Centro MiRT - Fondazione Minoprio [IT]. Egg mass photo courtesy of Walter Schön, www.schmetterling-raupe.de/art/perspectalis.htm. Pupa photo courtesy of Ilya Mityushev, Department of Plant Protection of the Russian State Agrarian University - Moscow Timiryazev Agricultural Academy. Dark brown adult moth courtesy of Colette Walter, www.lepiforum.de/webbbs/images/forum_2/pic13983.jpg.

2024 NJ AGRICULTURAL CONVENTION AND TRADE SHOW

PATHWAYS TO GROW FARM VIABILITY

Tuesday Morning, February 6, 2024

9:30 AM – 11:45 AM

<p>Wildwood 2&3 SOIL HEALTH: WHERE IT ALL BEGINS</p> <p>STEPHANIE MURPHY <i>Chair</i></p> <p>9:30 A.M. It All Starts with the Soil <i>Stephanie Murphy, Rutgers Soils Lab</i></p> <p>10:00 A.M. Mineral Nutrition and Plant Health <i>Joseph Heckman, Ext. Specialist, NJAES</i></p> <p>10:30 A.M. In-Field Assessment of Soil Health <i>Eileen Miller Healthy Landscapes Inc.</i></p> <p>11:00 A.M. Soil Health Practices and Results at Muth Family Farm <i>Bob Muth</i></p> <p><i>Pesticide Credits: 0</i></p>	<p>Wildwood 4&5 SPECIALTY AND NICHE CROPS I</p> <p>WILLIAM SCIARAPPA <i>Chair</i></p> <p>9:30 A.M. Summer Spinach & Roselle Rutgers R & D <i>Tori Rosen, PhD Student, Rutgers</i></p> <p>10:00 A.M. Rutgers Basil Research <i>Jim Simon, New-Use Agriculture, NJAES</i></p> <p>10:30 A.M. Specialty Crop Farming – A Farmer's Perspective. <i>Stephen Specca Specca Farms</i></p> <p>11:00 A.M. Habanero Production and Marketing <i>Albert Ayeni, Rutgers NJAES, Retired</i></p> <p><i>Pesticide Credits: PP2-4, Cat.1A-4, Cat.10-2</i></p>	<p>Wildwood 6&7 HEMP PRODUCTION: IS IT AN OPPORTUNITY?</p> <p>STEPHEN KOMAR <i>Chair</i></p> <p>9:30 A.M. Current Hemp Market Trends – Are there Opportunities? <i>Stephen Komar, Ag Agent, RCE</i></p> <p>10:00 A.M. Agronomics of Fiber Hemp Production in NJ <i>William Bamka, Ag Agent, RCE</i></p> <p>10:30 A.M. Regulatory Updates on the NJ Hemp Program <i>John Kerr, Hemp Program Manager, NJDA</i></p> <p>11:00 A.M. Fiber Hemp Processing - What is Involved? <i>Speaker TBD</i></p> <p><i>Pesticide Credits: PP2-1, Cat.1A-1, Cat.10-1</i></p>	<p>Wildwood 8&9 VEGETABLE PRODUCTION I</p> <p>ANDY WYENANDT <i>Chair</i></p> <p>9:30 A.M. Update on Fungicides for Vegetable Disease Control <i>Andy Wyenandt, Ext. Specialist, NJAES</i></p> <p>10:00 A.M. Cover Crops and Living Mulches for Weed Control in Cucurbits Grown with Plasticulture <i>Thierry Besancon Ext. Specialist, NJAES</i></p> <p>10:30 A.M. Update on Managing Some Difficult Pests in Vegetables <i>Thomas Kuhar Entomologist, VA Tech</i></p> <p>11:00 A.M. Gold Flecking in Tomato - Could there be Other Causes Besides Thrips? <i>Gerald Brust, IPM Vegetable Specialist, Univ. of Maryland</i></p> <p><i>Pesticide Credits: PP2-4, Cat.1A-4, Cat.10-4</i></p>	<p>Wildwood 10 BASICS OF WINE GRAPE PRODUCTION I</p> <p>HEMANT GOHIL <i>Chair</i></p> <p>9:30 A.M. Should You Be Growing Grapes? <i>Gary Pavlis, Ag Agent, RCE</i></p> <p>10:00 A.M. Vineyard Establishment <i>Dan Ward, Director, Rutgers Ag Research and Extension Center</i></p> <p>10:30 A.M. Vineyard Economics <i>Dan Ward, Director, Rutgers Ag Research and Extension Center</i></p> <p>11:00 A.M. Avoiding Costly Mistakes During the Early Years <i>Hemant Gohil Ag Agent, RCE</i></p> <p><i>Pesticide Credits: 0</i></p>
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LUNCH AND LEARN INDUSTRY PRESENTATIONS 12:00pm to 1:30PM IN THE TRADE SHOW AREA

PRE-SIGN UP REQUIRED – FREE LUNCH–TICKET REQUIRED – SPACE LIMITED

Exhibitors and Industry Representatives are sponsoring lunch and will talk about products and services.

Tuesday Mid-Day Workshop – Wildwood 12&13

12:00 - 1:30 P.M. Farmers Market Nutrition (FMNP) Program Vendor Training

NJ Dept. of Health and NJ Dept. of Agriculture Representatives

Tuesday Afternoon, February 6, 2024

2:15 PM – 4:30 PM

<p>Wildwood 2&3 VEGETABLE INTEGRATED PEST MANAGEMENT</p> <p>KRISTIAN HOMSTROM <i>Chair</i></p> <p>2:15 P.M. Diamond Back Moth Mating Disruption <i>Thomas Kuhar Entomologist, VA Tech</i></p> <p>2:45 P.M. Plans to Update Corn Ear Worm Management and What to do in the Meantime <i>Kelly Hamby, Ext. Specialist, Univ. of MD</i></p> <p>3:15 P.M. Ag Pest Monitor: A New Approach to Pest Monitoring <i>Joseph LaForest, Univ. of Georgia</i></p> <p>3:45 P.M. Biocontrols for Pests in High Tunnel Vegetables: Tomato, Cucumber and Greens <i>Judson Reid Ext. Specialist, Cornell Univ.</i></p> <p><i>Pesticide Credits: PP2-4, Cat. 1A-4, Cat. 10-4</i></p>	<p>Wildwood 4&5 SPECIALTY & NICHE CROPS II</p> <p>BILL HLUBIK <i>Chair</i></p> <p>2:15 P.M. Extend the Season, Extend the Profits <i>Jess Niederer Chickadee Creek Farm</i></p> <p>2:45 P.M. Growing Flowers in Geothermal Greenhouses – A Success Story with USDA REAP Funds <i>Rebecca Kutzer-Rice Moonshot Farm</i></p> <p>3:15 P.M. Opportunities, Tips, and Challenges of Growing High Value Crops <i>Devin Corina, NOFANJ & Alex Sawatzky, Rutgers Student Farm</i></p> <p>3:45 P.M. Hazelnut Cultivar/Pollinator Selection & Consideration for Orchard Design <i>David Hlubik Rutgers PhD Student</i></p> <p><i>Pesticide Credits: 0</i></p>	<p>Wildwood 6&7 TREE FRUIT ORCHARD ESTABLISHMENT AND MAINTENANCE</p> <p>MEGAN MUEHLBAUER <i>Chair</i></p> <p>2:15 P.M. Orchard Design and Variety/Rootstock Selection <i>Speaker TBA</i></p> <p>2:45 P.M. Tree Fruit Nutrition Management <i>Megan Muehlbauer Ag Agent, RCE</i></p> <p>3:15 P.M. Using IPM To Control Orchard Pests and Diseases <i>Janet VanZoren IPM, Cornell Univ.</i></p> <p>3:45 P.M. Tips and Tricks for Establishing a Tree Fruit Orchard Panel: <i>Jake Peterson Peterson Farm</i> <i>Jamie Bourgeois Riamede Orchard</i></p> <p><i>Pesticide Credits: PP2-1, Cat. 1A-1, Cat. 10-1</i></p>	<p>Wildwood 8&9 VEGETABLE PRODUCTION II</p> <p>MICHELLE INFANTE- CASELLA <i>Chair</i></p> <p>2:45 P.M. Insect Pests of Cucurbit Crops <i>Gerald Brust, IPM Vegetable Specialist, Univ. of Maryland</i></p> <p>3:15 P.M. Laser Scarecrows for Bird Damage Control <i>Kate Brown, Program Associate, RCE</i></p> <p>3:45 P.M. Understanding and Managing Blossom End Rot in Vegetable Crops <i>Michelle Infante-Casella, Ag Agent, RCE</i></p> <p>4:15 P.M. Insect Pests of Sweet Corn <i>Kelly Hamby, Ext. Specialist, Univ. of Maryland</i></p> <p><i>Pesticide Credits: PP2-3, Cat. 1A-3, Cat. 10-3</i></p>	<p>Wildwood 10 BASICS OF WINE GRAPE PRODUCTION II</p> <p>HEMANT GOHIL <i>Chair</i></p> <p>2:15 P.M. What Worked and What Did Not Work: Panel: <i>Jim Quarella Bellview Winery</i> <i>Joel Viereck Moss Branch Winery</i> <i>Dustin Tarpine Vine Tech</i></p> <p>3:15 P.M. Vine Tech – Experiences from Vine Tech <i>Steve Becker, Co-Founder of Vine Tech</i></p> <p>3:45 P.M. Establishing New Vineyards <i>Dustin Tarpine, Co-Founder of Vine Tech</i></p> <p><i>Pesticide Credits: 0</i></p>
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Wednesday Morning, February 7, 2024

9:30 AM – 11:45 AM

<p>Wildwood 1 HIGH TUNNELS</p> <p>AJ BOTH <i>Chair</i></p> <p>9:30 A.M. Asparagus Production <i>Scott Walker, Walker Brothers Inc.</i></p> <p>10:00 A.M. Cut Flower Production in High Tunnels <i>Rebecca Kutzer-Rice Moonshot Farm</i></p> <p>10:30 A.M. Geothermal Heating for Greenhouses <i>Jim Thomas Thomas Geothermal Engineering LLC</i></p> <p>11:00 A.M. High Tunnel and Hoophouse Construction <i>AJ Both, Ext. Specialist, NJAES</i></p> <p><i>Pesticide Credits: 0</i></p>	<p>Wildwood 2&3 NURSERY AND ORNAMENTALS I</p> <p>BILL ERRICKSON <i>Chair</i></p> <p>9:30 A.M. Developing BMPs for Native Plant Nurseries and Landscapes <i>William Errickson, Ag Agent, RCE</i></p> <p>10:00 A.M. Container Production of Ornamentals <i>Raul Cabrera, Ext. Specialist, NJAES</i></p> <p>10:30 A.M. Increasing Beneficial Insects with Banker Plants as Part of an IPM Program <i>Steve Rettke, Program Associate, RCE</i></p> <p>11:00 A.M. Ornamental Reforestation: A New Hort. Design Concept to Boost Env. Sustainability <i>Jean Epiphan, Ag Agent, RCE</i></p> <p><i>Pesticide Credits: PP2-3, Cat.1A-3, Cat.10-4, Cat.3A-1</i></p>	<p>Wildwood 4&5 FARMER HEALTH AND SAFETY</p> <p>KATE BROWN <i>Chair</i></p> <p>9:30 A.M. Risk vs. Benefit Analysis in Daily Decision Making <i>Kate Brown, Prog. Associate, RCE</i></p> <p>9:45 A.M. Respiratory Protection Requirements of WPS Labeled Pesticides <i>Patricia Hastings, Rutgers Pesticide Program</i></p> <p>10:30 A.M. Sun Safety & Skin Cancer <i>Gabriella Dumbrique Rutgers Cancer Institute</i></p> <p>11:00 A.M. Noise Exposure and Hearing Loss <i>Ian Pracher Rutgers Environmental Health and Safety</i></p> <p><i>Pesticide Credits: CORE - 1</i></p>	<p>Wildwood 6&7 STRAWBERRY PRODUCTION AND MARKETING</p> <p>PETER NITZSCHE <i>Chair</i></p> <p>9:30 A.M. Diseases to Watch for in New Strawberry Plantings <i>Kathy Demchak, Penn State</i></p> <p>10:00 A.M. Recent Advances in Strawberry Nursery Production <i>Ed Durner, Rutgers, NJAES</i></p> <p>10:30 A.M. Strawberry Farmer Panel: Pests, Sourcing Plants, PYO/Marketing, Varieties Panel: <i>Stephen Specca, Specca Farms</i> <i>David Duffield, Duffield's Farm</i> <i>Other Panelists TBD</i></p> <p><i>Pesticide Credits: PP2-2, Cat.1A2-2, Cat.10-2</i></p>	<p>Wildwood 8&9 AGRICULTURE TECHNOLOGY I</p> <p>WILLIAM SCIARAPPA <i>Chair</i></p> <p>9:30 A.M. Robotic Weeders in Agricultural Crops <i>Thierry Besancon, Ext. Specialist, NJAES</i></p> <p>10:00 A.M. Drone Technology, Taking Toys to Tools <i>Peter Oudemans, Ext. Specialist, NJAES</i></p> <p>10:30 A.M. Automatic Transplanting – Plant Tape <i>Dominick Lavari Plant Tape Inc.</i></p> <p>11:00 A.M. Biodegradable Plasticulture – Panel Discussion <i>William Sciarappa Ag Agent, RCE</i></p> <p><i>Pesticide Credits: PP2-4, Cat.1A-4, Cat.10-2, Cat.11-1 (aerial)</i></p>	<p>Wildwood 10 TRANSITIONING TO ORGANIC PRODUCTION</p> <p>MEREDITH MELENDEZ <i>Chair</i></p> <p>9:30 A.M. The When and Why of Organic Certification <i>Devon Corina Director NOFANJ</i></p> <p>10:00 A.M. Transitioning to Organic Certification <i>Erich Bremer, NJDA</i></p> <p>10:30 A.M. Panel Discussion – Realities of Organic Certification Panel: <i>Al Johnson, VP NOFANJ</i> <i>Devon Corina, Director NOFANJ</i> <i>Erich Bremer, NJDA</i></p> <p><i>Pesticide Credits: 0</i></p>
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Wednesday Mid-Day Workshop – Wildwood 12&13

12:00 - 1:30 P.M. Farmers Market Nutrition (FMNP) Program Vendor Training

NJ Dept. of Health and NJ Dept. of Agriculture Representatives

Wednesday Afternoon, February 7, 2024

2:15 PM – 4:30 PM

<p>Wildwood 1 WOMEN IN AGRICULTURE</p> <p>DARCY PEREHINYS <i>Chair</i></p> <p>2:45 Speaker TBD from the Executive Board of the National AFBF Womens Leadership Committee</p> <p>3:45-4:45 <u>Roundtable Discussion</u> NJFB Womens Leadership Committee</p> <ul style="list-style-type: none"> Life on the Farm Time and Family Management Retirement Planning <p><i>Pesticide Credits: 0</i></p>	<p>Wildwood 2&3 NURSERY AND ORNAMENTALS II</p> <p>TIM WALLER <i>Chair</i></p> <p>2:45 P.M. Common Plant Nutrients During Production – Their Causes and Solutions <i>Andrew Ristvey</i> <i>Ext. Specialist, Univ. of MD</i></p> <p>3:45 P.M. Top Plants for NJ Landscapes <i>Steve Kristoph</i> <i>Nursery Owner</i></p> <p>4:15 P.M. Whole Nursery Pesticide Regime Considerations <i>Timothy Waller</i> <i>Ag Agent, RCE</i></p> <p><i>Pesticide Credits: PP2-3, Cat. 1A-3, Cat. 10-3, Cat. 3A-1</i></p>	<p>Wildwood 4&5 BLUEBERRY PRODUCTION</p> <p>GARY PAVLIS <i>Chair</i></p> <p>2:45 P.M. Dos and Don'ts of Herbicide Sprays <i>Carrie Mansue</i> <i>RCE Prog. Assoc.</i></p> <p>3:05 P.M. Update on New Herbicides for Highbush Blueberry <i>Thierry Besancon</i> <i>Ext. Specialist, NJAES</i></p> <p>3:25 P.M. Blueberry Fruit Disease Management <i>Peter Oudemans</i> <i>Ext. Specialist, NJAES</i></p> <p>3:45 P.M. Current Research on Beetles and Flies <i>Cesar Rodriguez-Saona</i> <i>Ext. Specialist, NJAES</i></p> <p>4:05 P.M. New Players, Blueberry Stem Disease Complex <i>James Polashock</i> <i>USDA-ARS Pathologist</i></p> <p><i>Pesticide Credits: PP2-3, Cat. 1A-3, Cat. 10-3</i></p>	<p>Wildwood 6&7 RETAIL MARKETING: TRANISTION AND GROWTH</p> <p>KATE BROWN <i>Chair</i></p> <p>2:45 P.M. Who Shops at Direct-to-Consumer Farm Markets and Why? <i>Ethan Schoolman,</i> <i>Rutgers SEBS</i></p> <p>3:15 P.M. to 4:30PM From Wholesale to Direct Farm Marketing <u>Panel:</u> <i>Amy Zorn</i> <i>Hunters Farm Market</i> <i>Karen Maugeri</i> <i>Maugeri's Farm Market</i> <i>Marsha Gaventa</i> <i>Cedarvale Winery</i> <i>Tracy Duffield</i> <i>Duffield's Farm Market</i></p> <p><i>Pesticide Credits: 0</i></p>	<p>Wildwood 8&9 AGRICULTURAL TECHNOLOGY II</p> <p>DAVE SPECCA <i>Chair</i></p> <p>2:45 P.M. Cost Savings with Precision Agriculture and Conservation Tillage <i>Jeffrey Everett, Rutgers NJAES</i></p> <p>3:15 P.M. Experiences with Precision Agriculture and Conservation Tillage <i>Tim Eachus</i> <i>Turkey Creek Farm Supply</i></p> <p>3:45 P.M. Agrivoltaics at Rutgers <i>David Specca, Rutgers NJAES</i></p> <p>4:15 P.M. Economics of Agrivoltaics <i>Kevin Sullivan, Rutgers NJAES</i></p> <p><i>Pesticide Credits: 0</i></p>	<p>Wildwood 10 PRODUCE SAFETY: MANAGING RISK</p> <p>MEREDITH MELENDEZ <i>Chair</i></p> <p>2:45 P.M. Critical Components of Your Farm Safety Plan <i>Jennifer Matthews,</i> <i>Sr. Program Coord., RCE</i></p> <p>3:15 P.M. Identifying Hazards and Prioritizing Risks <i>Meredith Melendez,</i> <i>Ag Agent, RCE</i></p> <p>3:45 P.M. – 4:45 Where is the Risk? <i>Meredith Melendez,</i> <i>Ag Agent, RCE.</i></p> <p><i>Pesticide Credits: 0</i></p>
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Thursday, February 8, 2024

WORKSHOPS

9:00 AM – 4:30 PM

Wildwood 6&7

WORKSHOP: FSMA PRODUCE SAFETY RULE GROWER TRAINING

MEREDITH MELENDEZ

Chair

9:00 AM – 4:30 PM

Workshop Speakers:

Meredith Melendez, Ag Agent, RCE
Jennifer Matthews, Sr. Prog. Coord., RCE
Wes Kline, Ag Agent, RCE

- **Module 1: Introduction to Produce Safety**
- **Module 2: Worker Health and Hygiene and Training**
- Break
- **Module 3: Soil Amendments**
- **Module 4: Wildlife, Domesticated Animals, and Land Use**
- Lunch on your own
- **Module 5: Agricultural Water Part 1**
- **Agricultural Water Part 2**
- Break
- **Module 6: Post-Harvest Handling and Sanitation**
- **Module 7: How to Develop a Farm Food Safety Plan**

Each attendee will receive a grower manual and be eligible for a certificate from the Association of Food & Drug Officials of the United States (AFDO). Note: Each participant must stay the entire training to be eligible for the certificate of training.

The cost is \$50/per person, separate from the registration fee to the Vegetable Growers Convention.

For more information, contact Brandi at (856) 451-2800 ext. 1 (lunch is on your own)

Register at
<https://go.rutgers.edu/mhqc3m5u>



This training is partly funded through grants from the United States Department of Agriculture & Food & Drug Administration

Pesticide Credits: 0

Wildwood 8&9

WORKSHOP: WPS RESPIRATORY PROTECTION TRAINING, FIT TESTING & RECORD KEEPING

PATRICIA HASTINGS, Chair Email: hastings@njaes.rutgers.edu

9:00 AM – 1:00 PM (PRE-REGISTRATION REQUIRED-SPACE LIMITED)

Description: Revised WPS requires that agricultural employers provide all handlers (including family members) using a pesticide which requires respiratory protection with 1) medical evaluation; 2) fit testing of all tight-fitting respirators and 3) training per the requirements of 40 CFR 170.507 (b)(10). This workshop aims to build the capacity of NJ agricultural establishments to protect their pesticide handlers from respiratory hazards. At this workshop, growers/applicators/their employees will receive class instruction and hands-on training in how to correctly select respiratory protection using the pesticide label statements of products used on their farm, train, and fit test others; and document the results to meet the requirements of the Revised WPS in NJ. Participants will be trained in pairs in how to properly conduct a *qualitative* fit test so that they can *perform fit tests on the farm for as many masks and applicators as needed on their own*. In rare cases, pesticide labels require respirators that legally require *quantitative* fit testing. Quantitative fit testing will be performed for those participants that need it. Training in the use of quantitative fit testing will not be provided to participants.

Workshop Pre-Requisites:

- Registration is given priority to growers/applicators/and their employees needing to expand capacity in respirator training, fit testing, and recordkeeping. **Limited to the first 30 participants registering.**
- Prior to fit testing or using a respirator, OSHA requires that the respirator user be medically evaluated. Each applicant must submit with their registration form a fully completed medical clearance by a physician or other licensed health care provider per OSHA 29 CFR 1910.1910.134(e)(6)9i.
- ALL attendees must pre-register by completing the **4-part registration form (including Part 4)**. Use the **QR Code** (right) to register or go to <https://go.rutgers.edu/pesticideworkshop>

Part 1: Participant Information

Part 2: List of Pesticides Used Which the Pesticide Label Requires Respiratory Protection

Part 3: Fit Testing Pre-requisites

Part 4: Submitting Your Respirator Workshop Pre-Registration Form



Day of the Workshop:

- 1) participants must be clean-shaven; use no lotions, aftershave, or makeup; or wear jewelry that interferes with the respirator sealing surface; certain facial hair such as mustaches are acceptable if they do not interfere with the inhalation or exhalation valve function.
- 2) Must bring respirator(s) they wish to be fit tested with fitted with N, R, or P filters; other makes models, and sizes of respirators will be available if fit cannot be achieved. Ordering information will be provided.
- 3) Each participant will receive a Workshop Certificate plus a completed "Fit Test Record" and "Respirator Training Record" form and wallet card.

PRESENTERS:

Respiratory Protection for Pesticides, Patricia D. Hastings, Rutgers Pesticide Safety Education Coordinator
Medical Evaluation and Fit Testing, Robin Tutor-Marcom, PhD, Director, NC AgroMedicine Institute

PESTICIDE CREDITS: CORE-8

Interested in Farmland Preservation?

Contact us today!

**Cumberland County
Department of Planning,
Tourism & Community Affairs
(856) 451-2175
elenaga@cumberlandcountynj.gov**

