

Cultivating Cumberland

May- 2024

Vol. 29, Issue 5

Table of Contents

Table with 2 columns: Item Name and Page Number. Items include Pesticide Applicator Storage Inventory Submittal Due May 1 (1), New Jersey Ruminant Report (1), Resources for New Jersey Licensed Private Pesticide Applicators & Growers (2-3), Statewide Wine Grape Twilight Meeting (4), Cumberland County Board of Agriculture Scholarship (4), 26th Biennial International Pepper Conference Returns to Northeast (5), Food Science and Safety Classes (5), Locations for Pesticide Recycling Containers - 2024 (6), Cumberland County Fair Ad Book Form (7), Calendar of Events (8), and Plant and Pest Advisory (8).

Did You Forget Storage Inventory Was Due May 1

In New Jersey, all licensed pesticide applicators who store pesticides are required per N.J.A.C. 7:30-9.5 to maintain a list of the pesticides stored or likely to be stored during the license year. A storage inventory should be kept separate from the actual storage area. See attached for a template form that meets the requirements for a single storage location address. The purpose of the inventory is to provide local fire departments with an accurate description of things stored by location in case of fire or other emergency. We suggest filling out a form per storage address of your establishment. You may also devise a form that suits your needs if it meets the requirements of N.J.A.C. 7:30-9.5.

All licensed pesticide applicators who store pesticides are required by law to send a copy of their storage inventor(ies) with an explanatory cover letter to the local fire company along with a description and/ or diagram of the actual location of each storage area. Specifically, NJDEP regulations provide; "The cover letter shall explain that this list has been sent pursuant to N.J.A.C. 7:30-9.5(b).4".

See attached for a template submittal letter that meets the requirements.

Editable cover letter and pesticide list are available for download at www.pestmanagement.rutgers.edu/PAT/record_forms.htm.

Submittal to the fire department is required annually by May 1st of each year. (This does not pertain to pesticides stored for personal use, or to those storing pesticides at loading or application areas for less than 7 days.) Applicators must keep the cover letter on file for a minimum of three years and should have it available for NJDEP upon request.

New Jersey regulations also specifically require a written description or diagram depicting the exact location of the area on the property where the pesticide is stored.

Attachments

- USDA Federal Order on testing and reporting Influenza A in cattle
• Pesticide Storage Inventory List
• Inventory Cover Letter for Local Fire Company
• Cumberland County Board of Agriculture Scholarship
• Heat-Related Illnesses
• Nursery IPM Update

New Jersey Ruminant Report

The New Jersey Ruminant Report Newsletter provides information from a multi-discipline group of Rutgers NJAES Cooperative Extension Specialists and Agents representing diverse expertise in animal and forage crop production. On a biannual basis through the Ruminant Report Newsletter, the Rutgers NJAES Cooperative Extension Specialists and Agents will present current, relevant, and innovative information on ruminant management, nutrition, and health.

The spring issues can be accessed at https://njaes.rutgers.edu/ruminant-report/

Resources for New Jersey Licensed Private Pesticide Applicators & Growers

1. **Rutgers University New Jersey Agricultural Experiment Station (NJAES) Cooperative Extension** website: <https://njaes.rutgers.edu/>. NJAES Fact Sheets and publications are available online and updated routinely at <https://njaes.rutgers.edu/pubs/>. The 2024/2025 Mid-Atlantic Commercial Vegetable Recommendations E001. Pesticide Sections of the Mid-Atlantic Veg Recs were wholly revised in 2020, updated for 2022, and new sections added in 2024. The 2023 Rutgers New Jersey Commercial Tree Fruit Production Guide E002 Pesticide Safety Section was updated with the 2020 NJ regulation revisions.
2. **Rutgers University NJAES Plant & Pest Advisory:** <https://plant-pest-advisory.rutgers.edu/>. Timely seasonal updates focusing on insects, diseases, and weeds of importance to NJ Commercial Growers & Nursery/Landscape/Ornamental/Turf. FREE. Subscribe by email or RSS.
3. **Rutgers NJAES Pest Management Office:** (848) 932-9802. ENROLL IN BLOG.
 - a. Pesticide Safety Education Program: <https://pestmanagement.rutgers.edu/PAT/>. GOOGLE “RUTGERS PSEP”
 - Pesticide Applicator Certification & Licensing Requirements
 - Training Manuals online ordering now available with delivery to your home or business
 - Pesticide Applicator Certification Exam Access
 - Pesticide Applicator Recertification Training
 - Pesticide Record Keeping (templates in Word, Excel, or pdf)
 - Pesticide Spill Report Cards
 - b. **Worker Protection website:** <https://pestmanagement.rutgers.edu/worker-protection/>. Created for growers and their employees on the 2015 revised Worker Protection Standard. FREE. Pesticide Applicator Certification & Licensing Requirements
 - Rutgers “Quick Connect” for WPS videos for both handlers & workers in both English & Spanish.
 - Downloadable WPS Pesticide Safety Training rosters in Word & pdf.
4. **New Jersey Department of Environmental Protection:**
 - a. N.J.A.C. 7:30 State pesticide regulations were revised April 6, 2020. Govern the manufacture, distribution, and use of pesticides in New Jersey; see <https://www.nj.gov/dep/enforcement/pcp/pcp-regs.htm> Subchapter 8 Private Pesticide Applicator Certification & Licensing; Subchapter 9 Exposure Management; and Subchapter 12 Worker Protection (including revisions for parity with federal WPS).
 - b. **Licensing & Registration:** <https://www.state.nj.us/dep/enforcement/pcp/bpo.htm>. Private Applicator links for paying zero invoice online. Check your credit history online. List of registered beekeepers.
 - c. **NJDEP DataMiner** web portal provides online license fee payment and reports for applicators, operators, dealers, and businesses (e.g., recertification courses, license, or certification status); also lists of registered pesticides See all “Pesticide Control Program” reports at <https://njems.nj.gov/DataMiner/Search/SearchByCategory?isExternal=y&getCategory=y&catName=Pesticide+Control+Program>.
 - d. **NJDEP Worker Protection Unit** webpage at <https://www.state.nj.us/dep/enforcement/pcp/pcp-wps.htm>. Templates for Worker & Handler Training Rosters/Records; WPS Trainer Verification Form. For specific questions about NJDEP’s implementation of the revised WPS, please contact the Worker Protection Unit at 609-984-6568, or by email at pcp@dep.nj.gov.
 - e. Search for **NJ pesticide registrations** at <http://www.kellysolutions.com/NJ/>.
 - f. NJDEP General information: 609-984-6507. Spill report (reportable spills over regulatory thresholds): 1-877-WARNDEP.
 - g. The **Pesticide Applicator Certification Exam Registration (PACER)** system is the NJDEP’s approved third party exam administration system managed by the Rutgers NJAES Office of Continuing Professional Education (OCPE). This online exam application portal is located at <https://pacer.rutgers.edu>. Set up account and apply for exams 24/7. When you create an online account, you will have an online “Dashboard” to track your exam(s).

Payment for exams is required prior to approval; approval turnaround is approximately 48 hours. The fee to take the Private applicator exam is \$50 each; commercial applicator CORE and category exams are \$135 each (effective 3/1/2024). Payment by credit card, electronic checking, or Purchase Order.

Pesticide exams may now be taken online 24/7. See in-person exam schedule at PACER website (April 2024 dates in Cumberland and May 2024 dates in New Brunswick). Exams have a maximum time allotment of 1 hour 45 minutes. **OCPE contact is Jill Sullivan**; pacer@njaes.rutgers.edu. **Phone: 848-932-7443 or 848-93209271 Option 7**. Fax: 732-932-4546. Hours of operation: Monday-Friday, 8 AM-4 PM.

5. **New Jersey Department of Agriculture Division of Agricultural and Natural Resources:** Agricultural Recycling Programs - Pesticide container disposal is offered to agricultural, professional, and commercial pesticide applicators who hold a NJDEP pesticide license. One core credit will be given to pesticide license holders who follow required processing steps and bring their license with them at time of collection. Requires mailing in completed recycling form to NJDA in postage paid envelope.

The program accepts non-refillable, high-density polyethylene #2 (HDPE) containers that are no larger than 55 gallons and that have been triple rinsed. For more details on recycling requirements, scheduling, and locations, see the NJDA webpage at <https://www.nj.gov/agriculture/divisions/anr/nrc/recycling.html>. Contact is NJDA Division of Agricultural and Natural Resources Recycling Program Manager Tim Fekete at 609-913-6490.

6. **New Jersey Pesticide Information and Education System.** The designated regional Poison Control Center with a national number: (1-800-poison1)/ (1-800-222-1222). Website: <https://www.njpies.org/>.

7. **Pesticide Safety Data Sheets (SDS) for Revised Worker Protection Standard:** CDMS at <http://www.cdms.net/LabelsSDS/home>; and Agrian (now TELUS Agronomy): <https://agrian.com/labelcenter/results.cfm?q=>. See also pesticide manufacturer websites under #8 below.

8. **National Pesticide Information Center (NPIC)** provides general and technical information about pesticides; see home page at <http://npic.orst.edu/index.html>. See also their comprehensive list of pesticide manufacturers to request specific pesticide product information: <http://ace.orst.edu/info/npic/manuf.htm>.

9. **Pesticide Educational Resources Collaborative (PERC)** - develops or coordinates the development of pesticide education resources with online access for Worker Protection Standard compliance at <https://www.pesticideresources.org/wps/>. Houses both EPA-approved and non-approved resources at <https://www.pesticideresources.org/perc-projects/>. See #3 Rutgers PSEP for EPA-approved "Quick Connect" WPS training videos.

10. **National Pesticides Safety Education Center (NPSEC)** - <https://npsecstore.com/>. Online store for pesticide publications including EPA 2015 Revised WPS manuals, DVDs, thumb drives, bundles, and respiratory protection resources. Order laminated WPS Pesticide Safety Posters for Central Posting Area. Multi-lingual resources.

11. **EPA Pesticides Homepage** at <https://www.epa.gov/pesticides>. REVISED EPA Pesticide Poisoning Handbook 'Recognition and Management of Pesticide Poisonings 6th Edition' downloadable from <https://www.epa.gov/pesticide-worker-safety/recognition-and-management-pesticide-poisonings>.

12. **EPA Office of Pesticide Programs** 'Pesticide Chemical Search' webpage for conventional, antimicrobial, and biopesticide active ingredients; see <https://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>. Has label product label search function <http://iaspub.epa.gov/apex/pesticides/f?p=PPLS:1>.

13. **The Seventh Annual National Pesticide Safety Education Month – February 2024.** Always follow all federal and state laws and policies regarding educational content and trainer credentials. The purpose of National Pesticide Safety Education Month is to reinforce core principles of safe pesticide use with many audiences and raise awareness of and support for the land-grant university Pesticide Safety Education Programs (PSEPs). <https://pesticidestewardship.org/national-pesticide-safety-education-month/>. <https://twitter.com/pesticidesafete>.

Statewide Wine Grape Twilight Meeting

Sponsored by the New Jersey Center for Research and Education, the program's highlight is the demonstration of the new in-row weeding machine from TILMOR by Allonardo Enterprises. There will also be a demonstration talk on Groundhog management and other wildlife management in the vineyard. The program details are below. The sequence of presentations may change depending on the set-up at the winery.



When: May 8 (Wed) 5:00 pm – 7:30 pm
Where: Laurita Winery
85 Archertown Rd, New Egypt, NJ 08533
Pesticide Credits applied: CORE; PP2; 1A; 10

AGENDA

Groundhog and Deer Management: Chemical and Non-Chemical Approaches
Aaron T. Guikema, State Director, USDA – APHIS Wildlife Services.

Demonstration Of In-Row Weeding Machine

Mark Allonardo, Allonardo Enterprises, Vineland, New Jersey

Grape Root Borer and Status of Chlorpyrifos

Janine Spies, Statewide Fruit IPM Program Leader, Rutgers NJAES.

2024 Recommendations for Disease Management

Peter Oudemans, Extension Specialist, Small Fruit Pathology, Rutgers NJAES.

Pesticide Regulation Updates for 2024

George Hamilton, Extension Specialist in Pest Management, Rutgers NJAES

Spring Season Nutrient Management in the Vineyards

Gary Pavlis, Extension Agent, RCE of Atlantic Co

Pesticide re-Certification Credits and Adjourn.

Light fare will be provided.

If you plan to attend, please email Joan Medany at jmedany@co.gloucester.nj.us
or call 856-224-8030.

For additional assistance, please get in touch with Hemant Gohil at 856-224-8029 before the meeting.

Cumberland County Board of Agriculture Scholarship

Student must be a Cumberland County resident pursuing a degree in Production Agriculture/Horticulture, Agricultural Education, Agronomy or related field.

The purpose of this scholarship is designed to support the general welfare of agriculture in Cumberland County. Through this program the board wishes to encourage the scientific study of agriculture and promote as a useful, profitable, and dignified career. Education in production agriculture is a necessary tool in today's intensified agriculture field. The scholarship program hopes to encourage students to avail themselves of agriculture and related programs in higher education.

\$2,000 Scholarship

Return to: Cumberland County Board of Agriculture- 291 Morton Ave. Millville NJ 08332 by May 30th

See attached for a scholarship questionnaire.

26th Biennial International Pepper Conference Returns to Northeast September 9-11, 2024

Cornell University announces they will be hosting the International Pepper Conference 2024. Visit Internationalpepper.org to register, arrange accommodations and plan your travel.

"Fall in New York's Finger Lakes Region is the perfect time to visit local waterfalls, revel in colorful foliage, and explore our ripening pepper selection! We are excited to be hosting the 26th Annual International Pepper Conference in Ithaca, NY and are looking forward to showcasing peppers in our region. I'm especially excited about this year's field day. On Tuesday, September 10, we'll travel around Central New York, touring Cornell University research plots, visiting Norwich Meadows Farm, and taking in one of Ithaca's "gorges" waterfalls. I'm looking forward to welcoming all of you to Ithaca and sharing the latest scientific information and pepper breeding projects. –

Michael Mazourek, Plant Breeding & Genetics, Cornell University

The International Pepper Conference has been held every couple of years since 1973 and is not limited to researchers working on peppers. The event is a great opportunity for farmers, industry and vegetable specialists/agents/researchers to learn about new pepper production and research topics! As we know here in the Garden State, northeastern growers are much more significant producers of bell and specialty peppers than most realize! New Jersey was the last to host in the Northeast in 2008.

Food Science and Safety Classes- Register Now and \$SAVE!

Sensory Evaluation- In person (Course Code LF0606CB24)

June 17 and 18, 2024 - \$950 multi person - \$1,050 before 5/27 - \$1,140 after - New Brunswick, NJ

Build your sensory evaluation skills and develop a greater understanding of the science behind food aroma, taste, color, and texture in this 2-day in-person class.

You will learn:

- Pros and cons of different food sensory tests, set up testing procedures, and evaluate real products
- How to set up your own discrimination tests, create testing protocol, apply real test procedures, and interpret the results
- How to perform statistical tests using easy-to-learn steps

Practical Food Microbiology- Online (Course Code LF0401WA24)

June 25-27, 2024 - \$875 before 6/4 - \$895 after - Online

This three-day online course will cover the most critical points for food safety applications. You will learn which environmental factors influence the growth of pathogens and spoilage organisms in food, how to avoid microbial contamination, and how to produce safe food products.

We will cover the following crucial food Microbiology topics:

- Thermal Processing Systems Operations
- Microbiological Food Safety
- Equipment Operations
- Acidification and Container Closure Evaluation Programs

Register Now - Space is Limited! More info at www.cpe.rutgers.edu/food

Call us at 848-932-9271 or E-mail us at ocpe@njaes.rutgers.edu



RUTGERS

New Jersey Agricultural
Experiment Station

Locations for Pesticide Recycling Containers - 2024

Below is the locations and dates for recycling pesticide containers. The locations will not be manned by NJDA. Individuals dropping off containers (triple rinsed, holes drilled in bottom of container or slit w a knife & sans paper booklet on container) may do so during business hours and can pick up the form with a stamped self-addressed envelope to NJDA. Completed form must be returned to NJDA. Individuals will receive 1 core point PER CALENDAR YEAR!

More information can be found at www.nj.gov/agriculture/divisions/anr/nrc/processingsteps.html

Salem County

Helena Chemical
440 N. Main St.
Woodstown, New Jersey

Friday, May 17
Friday, June 21
Friday, August 23
Friday, September 20
Friday, October 18

Atlantic County

Helena Chemical
66 Route 206
(North of the Route 30/206 intersection)
Hammonton, New Jersey

Friday, May 10
Friday, June 14
Thursday, July 12
Friday, August 16
Friday, September 13
Friday, October 11

Monmouth County

Rutgers Fruit and Ornamental
Research Extension Center
283 Route 539
Cream Ridge, NJ 08514-9634

Friday, May 24
Friday, June 28
Friday, July 26
Friday, August 30
Friday, September 27
Friday, October 25

Items that Will Not Be Accepted and Will Be Returned to the Participant

Pesticide containers with dried formulation on the container, pour spout or the spout threads;
Pesticide containers with any liquid residue;
Pesticide containers where the insides are caked with dried residue;
Mini-bulk, saddle tanks and nurse tanks, which can be made of fiberglass;
Pesticide containers with lids; or
Containers that held any type of petroleum oil product or antifreeze.

Non-Waxy Cardboard

Helena Chemical will also be accepting non-waxy cardboard 1 p.m. to 3 p.m and during the scheduled pesticide container collection times. The clean non-waxy cardboard must be broken down and flattened. Cardboard delivered to the Atlantic County site must be tied. Clean Non-waxy cardboard will also be accepted year-round at the Cumberland County Solid Waste Complex's Convenience Center.

1 CORE credit is given each year if you take your NJ Pesticide License with you to drop off.
More information can be found at www.nj.gov/agriculture/divisions/anr/nrc/processingsteps.html



CUMBERLAND COUNTY FAIR

Ad Book Form

July 9 - 13, 2024



*Advertise your business in the 4-H Program Book
For the 2024 Cumberland County Fair*

2024 Cumberland County Fair
4-H Program/Ad Book Order Form

Full Page Back Cover—\$300.00(Please call to check availability) _____

Full Page Front Inside Cover—\$250.00 (Please call to check availability) _____

Full Page Back Inside Cover - \$250.00(Please call to check availability) _____

Full Page Ad (8"h x 5"w) - \$100.00 _____

½ Page Ad (4"h x 5"w) - \$50.00 _____

Business Card Ad (2"h x 5"w)- \$30.00 _____

Friend of 4-H Booster (50 character maximum/line) - \$5.00 _____

Line 1 _____

Line 2 _____

Total Due _____

Ads and Boosters are due by May 10, 2024

Make check payable to: **4-H Leaders Association.**

Return this form and check to:

Cumberland County 4-H , 291 Morton Avenue, Millville, NJ 08332.

Please enclose or email your camera ready ad/booster to deannja@CumberlandCountyNJ.gov

Name _____

Business/Company Name _____

Address _____

Town _____ Zip _____

Phone _____ Fax _____ E-mail _____

Thank you for your support. Proceeds will benefit the Cumberland 4-H Program.
Phone: 856-451-2800 ext. 3

Office Use Only

Date Paid _____ Check # _____ Cash _____

4-H Member Name & Club: _____

Calendar of Events

- Indicates a newly added event
- * Indicates Pesticide Credits Offered

- **May 8**
Statewide Wine Grape Twilight Meeting: Highlight is the in-row weeding machine
5:00 pm – 7:30 pm
Joan Medany at jmedany@co.gloucester.nj.us or call 856-224-8030
- **May 29-30**
Bridging The Gaps: Approaches for treating pre harvest agriculture water on-farm.
1:00pm-5:00pm. Efs@uga.edu. Register for \$25.
- **June 17 and 18**
Sensory Evaluation- In person: Build your sensory evaluation skills
- **June 25-27**
Practical Food Microbiology- Online: critical points for food safety applications
- **September 9-11**
Biennial International Pepper Conference

PLANT & PEST ADVISORY

Rutgers Cooperative Extension

HOME COMMERCIAL AG UPDATES ON-FARM FOOD SAFETY PLANT DIAGNOSTIC LAB Search this website ...

VEGETABLE CROPS FRUIT CROPS FIELD, FORAGE & LIVESTOCK LANDSCAPE, ORNAMENTALS, NURSERY, & TURF CHRISTMAS TREES

The Plant & Pest Advisory provides seasonal updates focusing on insects, diseases, and weeds of importance to NJ Commercial Growers.

[Subscribe by Email or RSS](https://plant-pest-advisory.rutgers.edu/contact-information/rss-2/)

<https://plant-pest-advisory.rutgers.edu/contact-information/rss-2/>

Production and Pesticide Recommendations on this site are for commercial operators and are NOT for home gardener use.

<https://plant-pest-advisory.rutgers.edu/integrated-pest-management/pesticide-user-responsibility/>

Find home gardening information at the [NJAES Home, Lawn, and Garden website](#) or [NJAES Gardening and Landscaping Fact Sheets & Bulletins](#).

RECENT POSTS

- [Allium leaf miner update: 03/25/24](#)
- [2024 National Agritourism Survey](#)
- [USDA Memorandum to U.S. Growers on Use of Chlorpyrifos Insecticide Products in Food Crops for 2024](#)
- [NJ DEP issues Open Burn Permit through Tuesday, March 26, 2024](#)
- [What Does the Fling with Spring Mean for Weed Emergence?](#)
- [USDA Webinar on Updates to the USDA Harmonized Good Agricultural Practices and GAP Plus+ Audit Standards](#)
- [EPA Update on Existing Stocks Provisions for Three Chlorpyrifos Products \(with Editor commentary\)](#)
- [EPA Update on Existing Stocks Provisions for Three Chlorpyrifos Products \(with Editor commentary\)](#)
- [Tree Fruit IPM Report for March 16, 2024](#)
- [Endangered Species Act: What will soon change for pesticide labelling and uses?](#)

timely ♦ seasonal ♦ focused ♦ free



<https://plant-pest-advisory.rutgers.edu/>



State of New Jersey

PHILIP D. MURPHY
Governor

DEPARTMENT OF AGRICULTURE
PO Box 330
TRENTON NJ 08625-0330

EDWARD D. WENGRYN
Secretary

TAHESHA L. WAY
Lieutenant Governor

MEMO

To: Cattle Producers, Veterinarians, and Fair Organizers
From: Amar Patil, DVM, MVSc, PhD Dipl. ACVM, Director, Division of Animal Health/State Veterinarian
Date: April 27, 2024

RE: USDA Federal Order on testing and reporting Influenza A in cattle

A Federal Order established by the United States Department of Agriculture (USDA) Animal and Plant Health Inspection Service (APHIS) was recently announced. The order identifies specific requirements related to the emerging disease issue of Influenza A (H5N1) in cattle. With the goal of protecting the nation's livestock industry, USDA has implemented required Influenza A testing on lactating cows prior to interstate movement. Additionally, the Federal Order requires laboratories and state veterinarians to report Influenza A detections in livestock to USDA APHIS. The mandates described in the Federal Order are effective on Monday, April 29, 2024, and apply to all states, including New Jersey.

Listed below are particularly important aspects of the Federal Order and USDA guidance.

Mandatory Testing for Interstate Movement of Dairy Cattle

- Prior to interstate movement, non-clinical lactating dairy cows are required to receive a negative test for Influenza A virus at an approved National Animal Health Laboratory Network (NAHLN) laboratory in addition to meeting the importing state's testing requirements and a certificate of veterinary inspection (CVI).
- Non-clinical lactating dairy cows moving interstate direct to slaughter do not require influenza A testing but require a certificate of veterinary inspection (CVI).
- Non-clinical lactating dairy cows moving interstate through auction markets in New Jersey to out of state slaughter do not require influenza A testing but require a certificate of veterinary inspection (CVI).
- Non-clinical lactating dairy cows moving interstate to auction market in another state require influenza A testing and a certificate of veterinary inspection.
- Nonlactating dairy cattle, including bull calves, dry cows, and heifers; and beef cattle are exempt from Influenza A testing for interstate movement.
- Movement tests are valid for seven (7) days from the date of sample collection.
- For imported cattle attending a New Jersey Fair/Show, Influenza A testing is required for lactating dairy cattle in addition to meeting requirements in the 2024 fair and show letter.

- Owners of herds in which dairy cattle test positive for interstate movement will be required to provide epidemiological information, including animal movement tracing.
- Sick cattle are not eligible for movement. Dairy cattle herds that have tested positive for influenza A must wait 30 days and retested negative to be eligible for movement.

Mandatory Reporting

- Laboratories and state veterinarians must report positive Influenza A detection diagnostic results in livestock to USDA APHIS.

Influenza A Testing at NJDA Animal Health Diagnostic Laboratory (NAHLN Laboratory)

New Jersey dairy producers in need of pre-movement testing should contact their attending veterinarian to arrange for sample collection. Sample collection and testing must occur no more than seven (7) days prior to interstate movement. The test sample required from lactating dairy cattle is milk/udder secretions from each quarter per individual cow. Ensure each quarter is sampled, as there have been reports of only one quarter having the virus. Milk from each quarter is then combined into one sample for submission to the laboratory. A total volume of 3-10 ml of milk per animal should be submitted. Milk is best submitted in sterile containers without any additives on ice. A thorough review of testing guidance has been published by USDA ([Testing Guidance for Labs for Influenza A in Livestock](#)).

The NJDA Animal Health Diagnostic Laboratory (AHDL) is a USDA-approved National Animal Health Laboratory Network (NAHLN) laboratory to perform Influenza A testing in cattle and is ready to test samples. Samples submitted to the NJDA AHDL will be tested by real-time polymerase chain reaction (PCR) assay for influenza A. Testing at the NJDA AHDL will be completed at no cost to the producers/veterinarians. The NJDA AHDL General Submission form should be used to request testing: [Animal Health Diagnostic Lab | Submission Forms \(nj.gov\)](#). NJDA AHDL Contact information: Phone (609) 406-6999, E-mail jerseyvetlab@ag.nj.gov.

As a reminder, livestock showing clinical signs consistent with Influenza A in cattle (decreased appetite, drop in milk production, thickened milk, abnormal feces, and fever) should be reported to a veterinarian and the NJDA Division of Animal Health (DAH) at 609-671-6400. Currently, there are no detections or suspect cases in New Jersey and producers are urged to reinforce good biosecurity practices on their farm. Influenza A testing for interstate dairy cattle movement is an additional requirement to the preexisting livestock importation regulations in New Jersey, [N.J.A.C. 2:3 Livestock and Poultry Importation](#). Persons moving dairy cattle are reminded that these requirements are in addition to the official identification, certificate of veterinary inspection (CVI), and testing requirements conventionally required for cattle movement. Please consult the receiving state to confirm all other interstate movement requirements prior to affecting an animal's movement.

The Federal Order intends to improve understanding of the disease through required reporting and mitigate disease spread with the implementation of mandatory testing prior to interstate movement. The Federal Order is available online at [dairy-federal-order.pdf \(usda.gov\)](#). This Federal Order is subject to change and testing requirements may apply to other classes of dairy cattle based on scientific factors concerning the virus and its evolving risk profile. USDA has created a guidance document entitled [APHIS Requirements and Recommendations for Highly Pathogenic Avian Influenza \(HPAI\) H5N1 Virus in Livestock For State Animal Health Officials, Accredited Veterinarians and Producers](#). The USDA website [HPAI Detections in Livestock](#) provides additional guidance and the latest information. NJDA will continue to monitor this developing situation and communicate with industry stakeholders as necessary.

Pesticide Storage Inventory List

Name or Establishment: _____

Date Updated: _____

Brand Name	EPA Registration Number	Active Ingredient(s)	Amount

Inventory Cover Letter for Local Fire Company

Date: _____

To: _____ Fire Department

From: _____

To Whom It May Concern:

Enclosed with this letter is a list of the pesticides I currently have stored or may store during the coming year. I am required by the New Jersey Department of Environmental Protection Pesticide Control Program regulation N.J.A.C. 7:30-9.5(b) to provide this list to the local fire department by May 1st each year.

My pesticide storage facility is located at:

The exact location of the storage area on the above property is (*either written description or diagram*):

Thank you for your time on this matter. Please contact me at _____ if you have any questions.

Sincerely,

Cumberland County Board of Agriculture Scholarship

Student must be a Cumberland County resident pursuing a degree in Production Agriculture/Horticulture, Agricultural Education, Agronomy or related field.

The purpose of this scholarship is designed to support the general welfare of agriculture in Cumberland County. Through this program the board wishes to encourage the scientific study of agriculture and promote as a useful, profitable, and dignified career. Education in production agriculture is a necessary tool in today's intensified agriculture field. The scholarship program hopes to encourage students to avail themselves of agriculture and related programs in higher education.

\$2,000 Scholarship

Return to: Cumberland County Board of Agriculture- 291 Morton Ave. Millville NJ 08332 by May 30th

Name: _____ Age: _____

Address: _____

High School/ College: _____ GPA: _____

Phone: _____ Email: _____

Clubs and or volunteer work in the community: _____

Name of College or Technical School: _____

Address: _____

Course of Study: _____

Why have you chosen a career in agriculture: _____

What are your plans after college: _____

Why should the scholarship committee select you for this scholarship: _____

References: (at least 3)

Name: _____ Phone: _____

Name: _____ Phone: _____

Name: _____ Phone: _____

Please provide one letter of recommendation

Payment of the scholarship will be made directly to college or technical school pending acceptance and enrollment.

Signed: _____ Date: _____

(Applicant)

Signed: _____ Date: _____

(Parent/Guardian)



PROTECT YOURSELF

- Drink water frequently. Don't wait to be thirsty. Avoid energy drinks and alcohol.
- Wear a hat and light-colored, loose-fitting, breathable clothing such as cotton.
- Use umbrellas, pop-up tents, and trees for shade.
- Ease into work as temperatures increase.
- Take breaks in the shade or in cool areas. Take more breaks during heavy work and in high heat and humidity.
- Schedule heavier work during the cooler parts of the day, if possible.

YOUR RIGHTS TO A SAFE WORK ENVIRONMENT

Employers are responsible for protecting workers from heat illness and are required to:

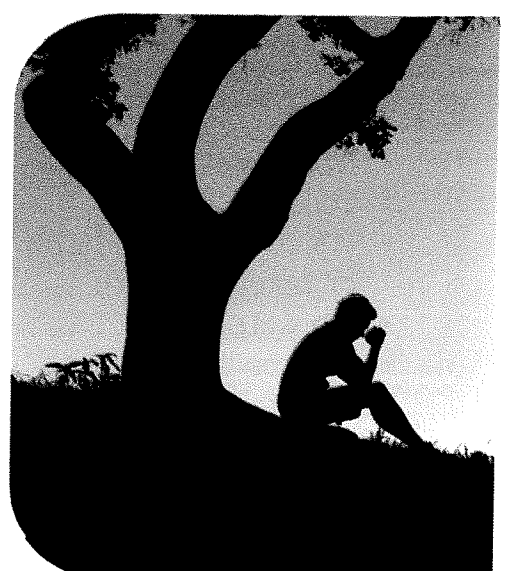
- Provide water, rest, and shade to workers.
- Allow new or returning workers to gradually increase workload and take more breaks during the first week to adjust to working in the heat.
- Plan for emergencies and train workers on prevention.
- Monitor workers for signs of illness.



OSHA National Emphasis Program on Heat:
[osha.gov/sites/default/files/publications/OSHA_HA-4279.pdf](https://www.osha.gov/sites/default/files/publications/OSHA_HA-4279.pdf)

ADDITIONAL RESOURCES

- **CDC Warning Signs and Symptoms of Heat-Related Illness:**
[cdc.gov/disasters/extremeheat/warning.html#text](https://www.cdc.gov/disasters/extremeheat/warning.html#text)
- **NIOSH Heat Stress Alerts:**
[cdc.gov/niosh/docs/2010-114/pdfs/2010-114.pdf](https://www.cdc.gov/niosh/docs/2010-114/pdfs/2010-114.pdf)
- **OSHA Prevent Heat Illness at Work:**
[osha.gov/sites/default/files/publications/3431_wksiteposter_en.pdf](https://www.osha.gov/sites/default/files/publications/3431_wksiteposter_en.pdf)
- **CDC/NIOSH Workplace Safety & Health Topics - Heat Stress:**
[cdc.gov/niosh/topics/heatstress/default.html](https://www.cdc.gov/niosh/topics/heatstress/default.html)
- **CDC Protecting Vulnerable Groups from Extreme Heat:**
[cdc.gov/disasters/extremeheat/workers.html](https://www.cdc.gov/disasters/extremeheat/workers.html)



HEAT-RELATED ILLNESSES

Protecting Farmworkers

RISK FACTORS



Direct exposure to sun



Higher humidity in the fields



Using heavy work clothes & equipment



SIGNS & SYMPTOMS

HEAT EXHAUSTION

- Nausea
- Dizziness
- Weakness
- Irritability
- Thirst
- Heavy sweating
- Elevated body temperature
- Decreased urine output

HEAT STROKE

- High body temperature
- Hot, red, dry or damp skin
- Fast, strong pulse
- Throbbing headache
- Dizziness/Nausea
- Confusion
- Seizures
- Unconsciousness

WHAT TO DO

HEAT EXHAUSTION

- Move to a cool place
- Loosen clothes
- Put cool, wet cloths on or take cool bath
- Sip water
- If throwing up, symptoms worsen or last longer than an hour, get medical help!

HEAT STROKE

- Call 911 right away!
- Move person to a cooler place
- Help lower body temperature with cool cloths or a cool bath
- Do not give person anything to drink





PROTÉJASE

- Beba agua con frecuencia. No espere a tener sed. Evite las bebidas energéticas y el alcohol.
- Use un sombrero y ropa de colores claros, holgada y transpirable, como por ejemplo de algodón.
- Use sombrillas, tiendas de campaña o la sombra de los árboles para protegerse del sol.
- Empiece a trabajar con calma a medida que aumentan las temperaturas.
- Tome sus recesos a la sombra o en zonas frescas. Tome más recesos durante el trabajo pesado y en condiciones de mucho calor y humedad.
- Si es posible, programe los trabajos más pesados durante las horas más frescas del día.



TIENE DERECHO A UN AMBIENTE DE TRABAJO SEGURO

Los empleadores son responsables de proteger a los trabajadores de las enfermedades causadas por el calor y están obligados a:

- Dar agua, descanso y sombra a los trabajadores.
- Permitir que los trabajadores nuevos o que se reincorporan aumenten gradualmente la carga de trabajo y tomen más recesos durante la primera semana para adaptarse a trabajar en el calor.
- Tener planes para emergencias y capacitar a los trabajadores en materia de prevención.
- Monitorear a los trabajadores para detectar señales de enfermedad.

OSHA - Programa de Énfasis Nacional sobre el Calor:
[osha.gov/sites/default/files/publications/OSHA_HA-4280.pdf](https://www.osha.gov/sites/default/files/publications/OSHA_HA-4280.pdf)

RECURSOS ADICIONALES

CDC - Señales de advertencia y síntomas de enfermedades causadas por el calor:

[cdc.gov/es/disasters/extremeheat/warning.html](https://www.cdc.gov/es/disasters/extremeheat/warning.html)

Alertas de estrés por calor del NIOSH:

[cdc.gov/spanish/niosh/docs/2010-114_sp/](https://www.cdc.gov/spanish/niosh/docs/2010-114_sp/)

OSHA - Cómo prevenir las enfermedades causadas por el calor en el trabajo:

[osha.gov/sites/default/files/publications/3432_wksiteposter_sp.pdf](https://www.osha.gov/sites/default/files/publications/3432_wksiteposter_sp.pdf)

CDC/NIOSH - Proteja a sus trabajadores contra el estrés por calor:

[cdc.gov/niosh/topics/heatstress/pdf/Heat-Stress_Spanish_508.pdf](https://www.cdc.gov/niosh/topics/heatstress/pdf/Heat-Stress_Spanish_508.pdf)

CDC - Cómo proteger a los grupos vulnerables del calor extremo:

[cdc.gov/disasters/es/extremeheat/workers.html](https://www.cdc.gov/disasters/es/extremeheat/workers.html)



ENFERMEDADES CAUSADAS POR EL CALOR

Cómo proteger a los trabajadores agrícolas

FACTORES DE RIESGO



Exposición directa al sol



El elevado nivel de humedad en los campos



El vestir ropa de trabajo pesada y cargar equipo pesado

SIGNOS Y SÍNTOMAS



AGOTAMIENTO POR CALOR

- Náuseas
- Mareos
- Debilidad
- Irritabilidad
- Sed
- Sudoración intensa
- Temperatura corporal elevada
- Disminución de la producción de orina

GOLPE DE CALOR

- Temperatura corporal alta
- Piel caliente, enrojecida, seca o húmeda
- Pulso rápido y fuerte
- Dolor de cabeza palpitante
- Mareos/Náuseas
- Confusión
- Convulsiones
- Pérdida del conocimiento

¿QUÉ HACER?

AGOTAMIENTO POR CALOR

- Vaya a un lugar fresco
- Afloje su ropa
- Póngase paños húmedos y fríos o tome un baño frío
- Beba agua
- Si vomita o los síntomas empeoran y duran más de una hora, ¡busque ayuda médica!

GOLPE DE CALOR

- ¡Llame al 911 de inmediato!
- Mueva a la persona a un lugar más fresco
- Ayude a bajar la temperatura corporal con paños fríos o un baño frío
- No le dé nada de beber a la persona



South Jersey Nursery IPM Updates: Degree-days

Projected GDD50 accumulation as of 4/30/2024

CODE	Location	1-Apr	1-May	1-Jun	1-Jul	1-Aug
NJ50	Upper Deerfield (South)	47	237	696	1408	2308
D4116	Bridgeton (South)	45	172	632	1346	2243
KMIV	Millville Airport (South)	57	249	676	1362	2237
NJ05	Greenwich (South)	53	247	716	1436	2338
NJ10	Howell (Central)	33	172	551	1191	2026
N59	High Point (North)	18	117	440	990	1711

USPEST.ORG - Model: **simple average/growing degree-day**, Min: 50F - Max: 95F, NMME forecast
 Forecast: 7-month NMME based seasonal climate forecast (USPEST.ORG) - **Subject to change regularly = Check Often**

Group	Common Name	Scientific Name	GDD Min (50F)	GDD Max (95F)	Ref.	Developmental / Target Stage / Notes	Favored Host Plants
Aphids / Thrips	Spirea aphid	<i>Aphis spiraecola</i>	326	-	6	Adults/nymphs	Spirea
Aphids / Thrips	Woolly beech aphids	<i>Grylloprociphilus imbricator</i> & <i>Phyllaphis fagi</i>	363	707	5	Typical treatment window	Beech
Beetle	Redheaded flea beetle	<i>Systema frontalis</i>	242	600	Unv. Del	First control target - egg hatch / larval activity	Many
Beetle	Turpentine beetle	<i>Dendroctonus terebrans</i>	300	350	4	Parent beetles colonizing brood material	Conifer
Beetle	Elm leaf beetle	<i>Xanthogaleruca luteola</i>	363	530	RU	Larvae treatment (1st generation)	Elm
Beetle	Pine shoot beetle	<i>Tomicus piniperda</i>	450	500	4	Adults emerge; begin shoot feeding - control target	Conifer
Beetle	Pine Chafer (Anomela Beetle)	<i>Anomala obliqua</i>	450	600	7	Adults (1st generation)	Conifer
Beetle	Redheaded flea beetle	<i>Systema frontalis</i>	517	1028	Unv. Del	Adults - feeding / laying eggs	Many
Beetle	Elm leaf beetle	<i>Xanthogaleruca luteola</i>	600	1300	7	Larvae (2nd generation)	Elm
Borer - Caterpillar	American plum borer	<i>Euzophera semifuneralis</i>	245	440	5	Adult flight, egg laying	Prunus
Borer - Clearwing moth	Lilac / Ash Borer	<i>Podosesia syringae</i>	200	299	RU	Adults - 1st Treatment	Lilac, ash, privet, many
Borer - Clearwing moth	Lesser peach tree borer	<i>Synanthedon pictipes</i>	350	375	4	Adult flight, egg laying	Malus, Prunus, many
Borer - Clearwing moth	Dogwood borer	<i>Synanthedon scitula</i>	350	850	4	adults, eggs, caterpillars	Dogwood, apple, pecan, elm, hickory, willow
Borer - Clearwing moth	Peach Tree Borer	<i>Synanthedon sp.</i>	500	600	RU	Adults - emerge (1st treatment both types)	Malus, Prunus, many
Borer - Clearwing moth	Rhododendron borer	<i>Synanthedon rhododendri</i>	509	696	RU	Adults emerge	Rhododendron
Borer - Clearwing moth	Greater peach tree borer	<i>Synanthedon exitiosa</i>	575	710	4	Adult emergence	Malus, Prunus, many
Borer - Flathead / Metallic	Bronze Birch Borer	<i>Agrilus anxius</i>	440	880	RU	Adults (egg laying)	Birch

Degree-days are Approximate RANGES. You should be scouting +/- 100-200 GDD of predicted ranges.

Contact Tim Waller with any questions (E: twaller@njaes.rutgers.edu) (856-451-2800)

Group	Common Name	Scientific Name	GDD Min (50F)	GDD Max (95F)	Ref.	Developmental / Target Stage / Notes	Favored Host Plants
Caterpillar	Larch casebearer	<i>Coleophora laricella</i>	363	618	2,4	Nymphs active - typical treatment window	Conifer
Caterpillar	Hemlock looper	<i>Lambdina fiscellaria</i>	448	707	5	Typical treatment window	Conifer
Caterpillar	Spongy moth (formerly Gypsy)	<i>Lymanttria dispar</i>	450	900	4	Caterpillar to pupation - control target missed	Many
Caterpillar	European pine shoot moth	<i>Rhyacionia buoliana</i>	480	710	5	Larvae Treatment	Conifer
Caterpillar	Greenstriped mapleworm	<i>Dryocampa rubicunda</i>	533	1645	5	Control target	Maple
Caterpillar	Spruce budworm	<i>Choristoneura fumiferana</i>	200	300	5	Larvae	Spruce
Caterpillar	Redbanded leafroller	<i>Argyrotaenia velutinana</i>	298	618	5	Typical treatment window	Malus
Caterpillar	Oak skeletonizer	<i>Bucculatrix ainsliella</i>	448	707	5	Typical treatment window	Oak
Caterpillar	Bagworm	<i>Thyridopteryx ephemeraeformis</i>	600	900	RU	Larvae (early instars) - ONLY CONTROL WINDOW	Conifer
Cicadellidae	Spotted Lantern Fly	<i>Lycorma delicatula</i>	225	1100	PA Dept. Ag	1st-4th Instar (nymphs) - control target	Many
Hemiptera (true bugs)	Fourlined plant bug	<i>Poecilocapsus lineatus</i>	435	-	6	Egg hatch / early instars	Many
Lacebug	Hawthorn lacebug	<i>Corythucha cydoniae</i>	239	363	RU	Nymphs/Adults	Deciduous, many
Lacebug	Azalea Lacebug	<i>Stephanitis pyrioides</i>	350	646	RU	Adults (1st generation)	Rhododendron
Lacebug	Basswood lacebug	<i>Gargaphia tiliae</i>	415	-	6	Adults/nymphs	Basswood
Leafminer / Midge / Fly	Douglas fir needle midge	<i>Contarinia pseudotsugae</i>	200	400	3	Adults emerge from soil	Conifer
Leafminer / Midge / Fly	Elm leafminer	<i>Fenusa ulmi</i>	215	240	5	Adult emergence	Elm
Sawfly - Wasp	Roseslug sawfly	<i>Endelomyia aethiops</i>	230	-	6	Egg hatch / early instars	Wild and cultivated roses
Leafminer / Midge / Fly	Arborvitae leafminer	<i>Argyresthia thuiella</i>	245	360	RU	Larvae Treatments (1st generation)	Conifer
Sawfly - Wasp	Pine sawflies (Red-headed)	<i>Neodiprion lecontei</i>	246	1388	RU	Larvae (1st generation)	Conifer
Leafminer / Midge / Fly	Lilac leafminer	<i>Caloptilia syringella</i>	246	363	5	Larvae Treatments	Lilac
Leafminer / Midge / Fly	Holly leafminer	<i>Phytomyza ilicis</i>	246	448	RU	Larvae Treatment	Holly
Leafminer / Midge / Fly	Boxwood leafminer	<i>Monarthropalpusi flavus</i>	249	-	6	Adult emergence	Boxwood
Leafminer / Midge / Fly	Birch Leafminer	<i>Fenusa pusilla</i>	275	375	4	Adults laying eggs	Birch
Leafminer / Midge / Fly	Locust leafminer	<i>Odontota dorsalis</i>	298	533	5	Typical treatment window	Locust
Leafminer / Midge / Fly	Pine needle midge	<i>Thecodiplosis brachyteroides</i>	400	500	7	Adults (1st generation)	Conifer
Leafminer / Midge / Fly	Boxwood Leafminer	<i>Monarthropalpusi flavus</i>	448	700	RU	Larvae treatment	Boxwood
Leafminer / Midge / Fly	Birch Leafminer	<i>Fenusa pusilla</i>	530	700	RU	Larvae (2nd generation)	Birch
Leafminer / Midge / Fly	Arborvitae Leafminer	<i>Argyresthia thuiella</i>	533	700	RU	Adults (egg laying) - larvae treatments	Conifer
Leafminer / Midge / Fly	Oak blotch leafminers	<i>Cameraria spp. ; Tisheria spp.</i>	533	912	5	Typical treatment window	Oak
Leafminer / Midge / Fly	Balsam gall midge	<i>Paradiplosis tumifex</i>	550	700	4	Galls apparent	Conifer

Group	Common Name	Scientific Name	GDD Min (50F)	GDD Max (95F)	Ref.	Developmental / Target Stage / Notes	Favored Host Plants
Mites	Boxwood mites	<i>Eurytetranychus buxi</i>	245	600	RU	All Stages	Boxwood
Mites	Pine eriophyid mites	<i>Eriophyidae</i>	298	533	5	Typical treatment window	Conifer
Mites	Privet rust mite	<i>Aculus ligustri</i>	298	802	RU	All stages	Privet
Mites	Walnut blister mite	<i>Eriophyes erinea</i>	363	707	5	Typical treatment window	Walnut
Mites	Two-Spotted Mite	<i>Tetranychus urticae</i>	437	997	RU	Adults (build-up activity)	Many
Adelgid	Cooley spruce gall adelgid	<i>Adelges cooleyi</i>	200	310	4	1st galls visible - Spruce	Conifer
Scale	Taxus mealybug	<i>Dysmicoccus wistariae</i>	246	618	RU	Adults/Crawlers	Yew
Adelgid	Eastern spruce gall adelgid	<i>Adelges abietis</i>	250	310	5	egg hatch, galls begin forming (not a control target)	Conifer
Psyllid	Boxwood Psyllid	<i>Cacopsylla busi</i>	290	440	RU	Nymphs	Boxwood
Scale	Pine Needle Scale	<i>Chionaspis pinifoliae</i>	298	448	RU	Crawlers (1st generation) - control target	Conifer
Scale	Kermes oak scale	<i>Allokermes spp.</i>	298	912	5	Typical treatment window	Oaks
Adelgid	Hemlock woolly adelgid	<i>Adelges tsugae</i>	350	350	RU	Eggs and 50% hatch	Conifer
Scale	Elongate Hemlock Scale	<i>Fiorinia externa</i>	360	700	RU	Crawlers (1st generation)	Conifer
Scale	Oystershell Scale	<i>Lepidosaphes ulmi</i>	363	707	RU	Crawlers	Many
Scale	Striped pine scale	<i>Toumeyella sp.</i>	400	500	3	Crawlers (1st generation)	Conifer
Scale	Pine tortoise scale	<i>Toumeyella parvicornis</i>	400	1000	4	Crawlers	Conifer
Whitefly	Azalea whitefly	<i>Pealius azaleae</i>	448	700	5	Adults/nymphs (1st generation)	Rhododendron
Scale	Maskell scale	<i>Lepidosaphes pallida</i>	470	-	6	Crawlers (1st generation)	Juniper
Scale	White prunicola scale	<i>Pseudaulacaspis prunicola</i>	513	-	6	Crawlers (1st generation)	Many
Scale	Cottony camellia / taxus scale	<i>Pulvinaria floccifera</i>	520	-	6	Crawlers (1st generation)	Many
Scale	Euonymus scale	<i>Unaspis euonymil</i>	533	820	RU	Crawlers (1st generation)	Euonymus
Scale	Juniper scale	<i>Carulaspis juniperi</i>	550	700	7	Egg hatch	Conifer
Scale	Cryptomeria scale	<i>Aspidiotus cryptomeriae</i>	600	800	3	First crawler emergence	Conifer
Adelgid	Cooley spruce gall adelgid	<i>Adelges cooleyi</i>	600	1000	7	Nymphs active - Douglas fir (control target)	Conifer
Scale	Sprucebud scale	<i>Physokermes hemicyphus</i>	700	1150	4	Crawlers (1st generation)	Conifer
Scale	White prunicola scale	<i>Pseudaulacaspis prunicola</i>	707	1151	RU	Crawlers (1st generation)	Many
Scale	Juniper scale	<i>Carulaspis juniperi</i>	707	1260	RU	Crawlers (1st generation)	Conifer
Scale	Calico scale	<i>Eulecanium cerasorum</i>	714	-	6	Crawlers (1st generation)	Many
Weevil	Pine root collar weevil	<i>Hylobius radialis</i>	300	350	4	1st adults active	Conifer
Weevil	Black Vine Weevil	<i>Otiorhynchus sulcatus</i>	400	2800	RU	Adults treatment	Yews, Rhododendrons, many

SCAN HERE for Full –
Nursery Pest Scouting Guide



SCAN HERE for Full –
Conifer Pest Scouting Guide



SCAN HERE TO REPORT
Observations
& Pest pictures!



References	
Institution	Cited #
Rutgers Univ.	1
Cornell Univ. & Univ. of New Hampshire	2
Penn State Univ.	3
Michigan State Univ.	4
Univ. of New Hampshire	5
Univ. of Maryland	6
Michigan State Univ.	7
Univ. Delaware & North Carolina State Univ.	8
PA Department of Agriculture	9

Please contact for full reference list



South Jersey Nursery IPM Updates: RHFB Updates

Red-headed flea beetle (*Systena frontalis*) - life stage predictions for South, Central, and Northern New Jersey with material considerations

HERE WHEN YOU NEED US
Information compiled by Dr. Timothy J. Walker - Rutgers Cooperative Extension - Cumberland County

UPDATED 4/30/2024 (Subject to Change) Calendar date predictions for target ranges

Growth Stage	Gen.	GDD50 TARGET RANGE -LOW-	GDD50 TARGET RANGE -HIGH-	SOUTH		CENTRAL		NORTH		NOTES (high infestation locations) <i>Systemic (S) - Contact (C) - Biologicals (B) - Herbicides (H)</i>	Material / Compound Considerations (Examples = no endorsements implied) [IRAC GROUP #]
				Upper Deerfield (NJ50)		Howell (NJ10)		High Point (NJ59)			
				LOW (DATE)	HIGH (DATE)	LOW (DATE)	HIGH (DATE)	LOW (DATE)	HIGH (DATE)		
Egg hatch - larvae	1	242	600	2-May	26-May	8-May	4-Jun	15-May	11-Jun	(S) Initiate systemic treatments 1-month prior to adult activity (S) Systemic granular or granular incorporation @ planting is effective (C) Contact materials may be used to knock-down larvae (B) Some bio-rational / logicals are effective on larvae - Look for larval activity on the outside of root balls - Larvae may be active prior to this GDD50 timeframe	SYSTEMIC DRENCHES Cyantraniliprole [28] (Mainspring) Chlorantraniliprole [28] (Acelepryn) Organophosphates [1B] - Acephate (Orthene, Acephate 97UP) Neonicotinoids [4A] - Dimethofenathrin (Safari 20SC); Thiomethoxam (Flagship 25 WG); Imidacloprid (Imidacloprid 2F, Marathon 1%G, Marathon II)
Adults (feeding / laying eggs)	1	517	1028	22-May	16-Jun	30-May	24-Jun	6-Jun	2-Jul	(S/C/B) Start adult contact sprays - continue systemic treatments (C) Contact weeds - adults will hide-in and feed-on them - Adult feeding damage will be apparent - Scout to determine best time for applications - Use of agitator compounds may drive adults from hiding	GRANULAR APPLICATIONS AND INCORPORATIONS Neonicotinoids [4A] Imidacloprid (Marathon 1%G, Coretect tablets, Mallet 0.5G) (Initiate systemic treatments 1-month prior to adult activity)
				POTENTIAL OVERLAP OF GENERATIONS / STAGES							
Egg hatch - larvae	2	1570	1860	6-Jul	17-Jul	15-Jul	25-Jul	26-Jul	7-Aug	(S) Continue systemic treatments (C/B) Contact materials to target larvae AND adults - Potential for considerable overlap of larvae - adult stages (H) Control weeds - adults will hide-in and feed on them	CONTACT Bifenthrin [3A] (UP Star SC, Talstar Select) Cyfluthrin [3] (Decathlon 20WP) - Rotation partner Carbamates [1A] - Carbaryl (Sevin SL) Tolfenpyrad [21A] (Hachi-Hachi SC) Cyclaniliprole [28] (Sarisa) + Flonicamid [29] (Pradia)
Adults (feeding / laying eggs)	2	1878	2318	17-Jul	1-Aug	27-Jul	12-Aug	8-Aug	28-Aug	(C/B) Adult contact sprays (S) * If pest pressure is high * - continue systemic materials (H) Control weeds - adults will hide-in and feed-on them - Adult feeding damage will be apparent - Use of agitator compounds may drive adults from hiding	BIOLOGICAL / BIORATIONAL Azadirachtin (Aza-Direct, Azatin-O) Beneficial nematodes (Millennium) Entomopathogenic fungi (Ancora, BotaniGuard) Adult Agitator (Captive Prime)
* A third generation of larvae and feeding adults is possible in warmer years *										Estimated using USPEST.org. (https://uspest.org/ddm/odel_app) NMME Extended Seasonal Forecast, "Simple average growing degree-days", "Min temp: 50F", "Max temp: 95F"	
										Insect development growing degree-day ranges based on trials by Dr. Kuziel - Extension Specialist - University of Delaware - subject to change. Treatment considerations based on research performed by Danny Luedersdale - Area Specialist - Nursery Crops, NC State University.	

DISCLAIMER: The label is the law, always refer to it for allowable host crops, use restrictions, application rates, reapplication intervals, re-entry intervals (REI), application timing, and mix compatibility information. Products and pesticide information on this site are for professional/pesticide applicators and landscape professionals only, and are NOT for home/garden use. Provided materials represent examples and do not cover all possible control scenarios. Tradenames listed do not imply endorsement and are used as examples only. Please contact your local agent or chemical sales representative for more information or to discuss additional pest management options. Calendar data provided are based on forecasts and therefore not guaranteed.

South Jersey Nursery IPM Updates: Borer models

Bronze Birch Borer for Station UPPER DEERFIELD NJ (NJ50)

NJ50 has 91% data quality score (average since March 1 (temperature only)).

[full model online](#)

Model starts Jan 01, 2024.

Date	DDs cumu	Events
Jan 1	1	* START *
Mar 23	252	Prepupal larvae in OW cells under bark
Apr 13	405	Beginning of pupation
Apr 29	614	* NOW *
May 6	768	First adults exit trees
May 16	963	10% adult emergence
May 23	1116	50% adult emergence
Jun 4	1421	Beginning of egg hatch and larval tunneling
Jun 11	1620	90% adult emergence

Emerald Ash Borer for Station UPPER DEERFIELD NJ (NJ50)

NJ50 has 91% data quality score (average since March 1 (temperature only)).

[full model online](#)

Model starts Jan 01, 2024.

Date	DDs cumu	Events
Jan 1	0	* START *
Apr 29	299	* NOW *
May 18	556	First adult emergence approx. beginning
May 25	666	10% adult emergence
Jun 5	874	50% adult emergence
Jul 1	1506	95% adult emergence
Aug 5	2519	Last adult emergence approx. end



Regularly Scheduled Meetings

Cumberland County Agriculture Development Board

Virtual Meetings Information
can be found on the
Public Meeting Calendar on
co.cumberland.nj.us

Meetings are held on the 3rd
Tuesday of each month.
Meetings start at 7 p.m. at
Rutgers Cooperative Extension
291 Morton Avenue
Millville, NJ 08332

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,
September - May at
Rutgers Cooperative Extension
291 Morton Avenue
Millville, NJ 08332

Next meeting
May 16, 2024 at 7PM

Virtual Meeting Information
<https://rutgers.zoom.us/my/smangia>

Meeting ID: 529 557 9817
Pass-code: Sal2020
or call in at 1 (646) 558 - 8656


President: Timothy Eachus

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

Meeting Times Vary by Month:
September & October - 7 PM
November, December, January,
February, & March - 6 PM
April & May - 7 PM

Cumberland County
For more information call
Keith MacIndoe,
President at 856-207-7773

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.



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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/>

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