RUTGERS
New Jersey Agricultural Experiment Station

Cooperative Extension of Cumberland County
Extension Education Center
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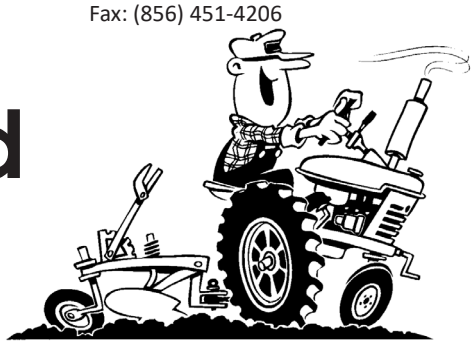
Cultivating Cumberland

March - 2024 Vol. 29, Issue 3



Commercial Vegtable Recommendations/ Weed Control Guide	1
NJ Manure Link	2
Wildlife Fencing Grants	3
Update on Xtend-specific dicamba products registration/ Fact Sheet	4
USDA Resilient Food Systems Infrastructure Program Grants	5
Assessing Damage	6
Water Testing Requirements	7-8
Tools for weed Id & Management	8
Census of Agriculture	9
Scheduled Meetings Calendar of Events	10-11

Attachments

- CJVGM Brochure
- CJTOI Brochure
- Outstanding Young Farmer Winner
- Produce Saftey Webinar
- Systena frontalis
- Pest Scouting Guide
- Grape Expectation

2024/2025 Commercial Vegetable Recommendation Book Available

The 2024/25 Mid-Atlantic Commercial Vegetable Production Recommendation Manual is now available in our office. The 486-page manual covers all aspects of commercial vegetable production from general practices, soil and nutrient management, irrigation practices, pesticide safety, pest management and commodity recommendations for 45 crops. This is the most complete guide which has been published in the region. The manual can be purchased from our office for $30.00.

The complete manual or sections can be downloaded for free at: https://njaes.rutgers.edu/pubs/publication.php?pid=E001.

The 2024 Mid-Atlantic Weed Control Guide for Agronomic Crops is now available!

plant-pest-advisory.rutgers.edu/the-2024-mid-atlantic-weed-control-guide-for-agronomic-crops-is-now-available

The 2024 Mid-Atlantic Weed Control Guide: Essentials for Agronomic Crops is now available for purchase from Penn State Extension in print ($10) or as a digital download ($8). A bundle that includes both versions can be purchased for $18. More information about this guide is available at https://extension.psu.edu/weed-guide. Penn State Extension (Dwight Lingenfelter and Dr. John Wallace) produces this publication in cooperation with the University of Delaware (Dr. Mark VanGessel), the University of Maryland (Dr. Kurt Vollmer), Rutgers University (Dr. Thierry Besancon), Virginia Tech (Drs. Michael Flessner and Vijay Singh) and West Virginia University (Dr. Rakesh Chandran).

The guide contains essential tables about herbicide recommendations and general use guidelines for corn, sorghum, soybean, small grains, forages and farmstead.

It also offers herbicide effectiveness ratings on problem weeds such as henbit, horsenettle, horseweed/marestail, palmer amaranth and waterhemp, common pokeweed, common ragweed, giant ragweed, annual ryegrass, broadleaf and curly dock, johnsongrass and shattercane, lambsquarters, milkweed and hemp dogbane, Canada thistle, and other species. Featuring updated herbicide tables from the 2023-24 edition of the Penn State Agronomy Guide, this condensed, quick-reference manual highlights basic information about herbicideuse recommendations and herbicide effectiveness on common weed species in the region.

NEW JERSEY DEPARTMENT OF AGRICULTURE PARTNERS WITH RUTGERS, AND OTHERS FOR NJ ManureLink

Contact: Jeff Wolfe,P: (609) 913-6559, C: (609) 433-1785, E: jeff.wolfe@ag.nj.gov

(TRENTON) – The New Jersey Department of Agriculture has partnered with the Rutgers University, Office of Research Analytics to develop the NJ ManureLink website to provide a unique web-listing service for livestock farmers with composters and farmers looking to sustainably utilize this nutrient rich material. The website njmanurelink.rutgers.edu is designed to help farmers, composters, and users connect with manure or compost availability. The NJDA's Division of Agricultural and Natural Resources applied for and received a Conservation Innovation Grant (CIG) from the USDA's Natural Resource Conservation Service (NRCS) for the NJ ManureLink project.

"This valuable online resource for farmers and composters is a result of work by our own staff as well as the diligent efforts of our partners at Rutgers and other organizations" New Jersey Assistant Secretary of Agriculture Joe Atchison III said. "These partnerships allow us to serve the New Jersey agricultural community in a more effective manner."

The NJ ManureLink website was launched earlier this month. It lists manure and compost availability by geographic location within New Jersey. It also allows users to sign up for notifications when the resource they are looking for becomes available. The project provides an opportunity for farms with limited land capacity a way to distribute their manure to composters and farmers who can use it to benefit their operations.

The New Jersey Composting Council (NJCC), a project partner, will provide outreach and support for educational components including two webinars, and two composting field days. The first webinar and field day will be scheduled for July 2024. Details on these sessions will be posted to njmanurelink.rutgers.edu. Livestock farmers and composters, as well as producers across all agricultural sectors, including urban farming, are invited to attend the field days. Webinars will explore the importance of composting, nutrient management, and how to effectively incorporate organic materials into farming practices. Field days will provide hands-on experience for setting up composting systems, monitoring progress, as well as site considerations.

Goals for the NJ ManureLink project include recycling valuable nutrients, generating accessibility to organic materials, reducing animal waste excess, and protecting waterways through nutrient transfer. The project will allow urban farmers to gain access to manure as well as finished compost. The project also helps to meet the goals of NJDEP's Global Warming Response Act 80 x 50 Report from 2020, which identifies the need to reduce the waste stream of organic materials.

NEW JERSEY DEPARTMENT OF AGRICULTURE ANNOUNCES ENHANCED WILDLIFE FENCING GRANTS

New law increases funding for preserved, unpreserved farms

(TRENTON) – New Jersey Department of Agriculture Assistant Secretary Joe Atchison III announced today the Department is now accepting applications for cost-share grants for the installation of wildlife fencing on preserved and unpreserved farms. The wildlife fencing program is an updated version of the deer fencing program that was announced in the spring of 2023.

Preserved and unpreserved farm owners, operators, or tenants in New Jersey may receive up to 50 percent matching funds ($50,000 maximum) if their application is approved. Grants for the unpreserved farms will be awarded on a first-come, first-served basis until all funds are expended.

“The expanded version of this program makes more funds available to those who may need fencing to protect valuable crops that are susceptible to damage from deer, bears, and other wildlife,” Assistant Secretary Atchison said. “We encourage farmers to take advantage of this opportunity by applying for this grant.” This program is possible because of legislation (P.L. 2023, c. 233) signed into law on January 8, 2024.

This law enhances the separate NJDA and State Agriculture Development Committee (SADC) wildlife fencing programs.

Applicants for unpreserved property who lease or operate but do not own the farmland described in their application must receive authorization from the landowner. Applicants must review a copy of the Standard Agreement before applying. Applicants will also need a NJSTART vendor ID. The applications forms and information are available at https://bit.ly/3SZvaJJ.

Farms enrolled in a ‘permanent farmland preservation program’, as defined in the SADC policy P-53, are eligible for the SADC program. The law clarifies that all other farms may apply to the NJDA program.

More information for farms enrolled in the SADC farmland preservation program is available at https://bit.ly/453c4Xa.

More information about other NJDA grants is available at https://www.nj.gov/agriculture/grants/.

To learn more about the New Jersey Department of Agriculture, find us on Facebook at www.facebook.com/NJDeptofAgriculture and www.facebook.com/JerseyFreshOfficial or Twitter @ NJDA and @JerseyFreshNJDA.

Update on Xtend-specific dicamba products registration

plant-pest-advisory.rutgers.edu/update-on-xtend-specific-dicamba-products-registration

On February 6, 2024, the U.S. District Court of Arizona vacated the registrations of threedicamba products (Engenia 5L, Xtendimax 2.9L, and Tavium 3.39CS) labeled for over-the-top use in Xtend and XtendFlex soybean systems. After several days of uncertainty, we nowhave guidance from the EPA about use of these products in the 2024 growing season.Based on the Court's decision, the EPA considers these products to be no longer registeredbut allows for use of existing stocks under limited conditions:

- **Use of products:** The EPA's "existing stocks order" allows private and commercialapplicators to use existing stocks that were acquired by May 31, 2024. Applications ofthese products are permitted until June 30, 2024, in Xtend brand soybean fields.
- **Distribution and sale: T**he EPA order limits further distribution and sales of theseproducts to only existing stocks that were in possession of dealers prior to February 6,2024, to facilitate use of the product by the June 30 deadline. In other words, the majormanufacturers/registrants of these products are not allowed to sell them anymore, butany dealers with an existing inventory may sell these products until May 31, 2024, andapplicators may spray them, according to their label, until June 30, 2024.
- **Dicamba training:** To use any of these Xtend-specific dicamba products, specialdicamba training must be done annually to purchase and apply them. Training isreciprocal across brands, meaning an applicator only needs to take one dicamba-specific training each year; no matter what product is used, and which organizationdoes the training. For more information about online dicamba training options and otherspecifics see:
  - BASF
  - Bayer
  - Syngenta

Keep in mind, other dicamba-containing products such as Clarity, Diflexx, Status, and the many generics cannot be legally sprayed over-the-top of Xtend brand soybeans. However, the use of glyphosate and glufosinate (Liberty, etc.) products can still be useddepending on the variety. Enlist E3 soybean varieties have not been affected by this lawsuit and thus registered 2,4-Dcholine products (Enlist One and Duo) can be used in that system. These and other 2,4-Dproducts cannot be applied over-the-top in Xtend/ XtendFlex soybean systems, otherwisemajor crop damage will occur.

We will continue to provide updates if more details emerge. The EPA order and summarycan be found here: Existing Stocks Order for Dicamba Products Previously Registered forOver-the-Top Use on Dicamba-Tolerant Cotton and Soybean

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New Rutgers Fact Sheet

The following new fact sheet is available on NJAES Publications:

FS1356: 2024 Vegetable Integrated Pest Management Delivery Program
Hamilton, J. and Holmstrom, K.

Find it online at https://njaes.rutgers.edu/fs1356/

New Jersey Department of Agriculture is offering a USDA Resilient Food Systems Infrastructure Program Grants

Deadline for grant submission March 15, 2024

For more information visit the NJDA site: nj.gov/agriculture/grants/rfsigrants.html

Types of projects that could be funded include:

• Expanding processing capacities, including adding product types, increasing production volumes, and supporting new wholesale/retail, product lines;

• Modernizing equipment or facilities through upgrades, repairs, or retooling; (e.g., adapting product lines for institutional procurement or adding processing capacity);

• Purchase and installation of specialized equipment, such as processing components, sorting equipment, packing and labeling equipment, or delivery vehicles;

• Modernizing manufacturing, tracking, storage, and information technology systems;

• Enhancing worker safety through adoption of new technologies or investment in equipment or facility improvements; Construction of a new facility;

• Increasing packaging and labeling capacities that meet compliance requirements under applicable laws (e.g. sealing, bagging, boxing, labeling, conveying, and product moving equipment);

• Increasing storage space, including cold storage;

• Develop, customize, or install climate-smart equipment that reduces greenhouse gas emissions, increases efficiency in water use, improves air and/or water quality, and/or meets one or more of USDA's climate action goals;

• Modernize equipment or facilities to ensure food safety, including associated Hazard, Analysis, and Critical Control Points (HACCP) consultation, plan development and employee training;

• Training on the use of all equipment purchased under the grant and associated new processes.

Contact at NJDA:
Deelip Mhaske
Grants Administrator
Division of Marketing & Development New
Jersey Department of Agriculture
PO Box 330, Trenton, NJ 08625-0330
Phone: 609-913-6628 Fax: 609-984-2508
E-mail: deelip.mhaske@ag.nj.gov

Good Time to Assess Drainage

Jim Murphy • February 23, 2024 Plant and Pest Advisory

The soil that supports our lawns, sports fields, golf courses, and other land uses begins to recharge (store) with water as the evapotranspiration rate drops off during autumn and continues to decline to a very low rate during winter. Water storage in soil is good since that provides the water needed to support green-up and re-initiation of plant growth in the spring. However, an excessive accumulation of water is an indicator that one or more conditions in the landscape are restricting drainage.

Observing the drainage capacity of landscapes during late winter and early spring 2024 should be highly effective at determining whether corrective action is needed to improved drainage. We have experienced above normal precipitation In New Jersey during three of the last six months. September 2023 precipitation averaged 7.55” across the state, which was 3.39” above normal and ranks as the 9th wettest September. December 2023 precipitation was the wettest 12th month on record dating back to 1895. Statewide, precipitation averaged 8.20”, which was 3.93” above the 1991–2020 normal and was 0.33” above the previous wettest December in 1996. January 2024 was 6th on record dating back to 1895. The statewide 6.39” of rain and melted snow was 2.90” above the 1991–2020 normal. See https://www.njweather.org/news for more weather details.

Thus, autumn and winter precipitation has certainly recharged our soils to be at or very near field capacity, Field capacity refers to the water remaining in a soil after it has been thoroughly saturated and allowed to drain freely, usually for one to two days.

With our soils essentially full of water, any additional precipitation during the remainder of the winter and into early spring will provide us a good assessment of drainage. Soil that is freely drained will be wetted after precipitation but will return to a well drained condition (field capacity) within one to two days. Slow to drain areas will become soggy and possibly pond water for more than two days. The longer excess water lingers beyond 2 days within or above the soil, the poorer the drainage.

It is a good practice to scout your landscapes during this time of year and watch for areas that remain soggy or ponded well beyond 2 days after rain. Once you find poorly drained areas the key to improving drainage is to identify where the excess water is coming from and to intercept it before impacting the turf and other landscape plants. The two essential concepts behind good drainage designs are to protect soils from becoming ponded and/or the root zone from becoming waterlogged. Drainage solutions range from re-contouring the landscape (shed excess water through surface drainage) to installing a network of below-ground pipe drainage (intercept excess subsurface water).

Water Testing Requirements Under the Food Safety Modernization Act Produce Safety Rule for 2024

Does your farm fall under the FSMA: PSR? Find out at the link below: https://rutgers.ca1.qualtrics.com/jfe/form/SV_4IagP1mbPyrp42N. The requirements for water management only apply to operations that are not exempt or qualified exempt. Check out the link above to determine whether you fall under an exemption category.

Note: If you are third party audited (GA/GHP, Harmonized, Global GA, Primus, etc.) continue to follow the water testing requirements for your audit!

Harvest and Post-Harvest Water (including water used to wash hands, washing produce, ice making, hydrocooling, chemical application and for cleaning and sanitizing)

Water Test Requirements:

- For Public Water: No test required, you need to have a copy of the report from the municipality.
- For well water: You must test just wells used for harvest and post-harvest four times in the first year and then if there is no detectable generic E. coli on any tests you may test each well once per year after that initial year.
- For surface water: Untreated surface water is not allowed to be used for harvest and post-harvest purposes.

Compliance Dates:

- Large Growers (over $500,000): Currently in effect
- Small Growers ($250,000-$500,000): Currently in effect
- Very Small Growers ($25,000- $250,000): January 26, 2025

When complying a grower must inspect the agricultural water system that is under their control to determine any hazards. The water source test results must ensure that there is no detectable generic E. coli per 100 ml of water and untreated surface water cannot be used.

If a water test does not meet the criteria for non-detectable generic E. coli the farm must immediately stop using the water. The grower must take several steps before using the water including reinspecting the entire affected agricultural water system, under their control and make corrections or treat the water.

There are other required measures including having a water change schedule; visually monitoring the quality of water (for buildup of organic material) and monitoring the temperature of certain commodities.

The records required include the agricultural water system inspection; water test results; any water treatment; and corrective actions. Review Subpart E sections 112.41-112.48, 112.50, 112.151 and 112.161.

Pre-Harvest (Irrigation, Frost Protection, Sprays) Water

There is some confusion as to whether growers need to test their water for pre-harvest uses in 2024. The pre-harvest irrigation water requirement is still under review by the Food and Drug Administration, so testing is not required in 2024.

What we suggest you do now:

- For well water: Test once a year
- For surface water: Test three times a year. (when the pump is started, mid-season and close to harvest.)

This will give the grower a baseline as to the quality of water being used. When the final rule goes into effect the largest growers (over $500,000) will have nine months; small growers ($250,000-500,000) will have 1 year, and nine months and the very small growers ($25,000-250,000) will have two years and nine months to start complying.

Source: The On-Farm Food Safety Team (Meredith Melendez, Jennifer Matthews and Wesley Kline)

Farmer series:

"Tools for Weed Identification and Management"

presented by Thierry E. Besançon, PhD Associate Professor and Extension Weed Science Specialist for Specialty Crops

Date: March 14, 2023

Time 6:00-7:00 PM

Topics include:
- Reviewing some of the available tools (books, apps…) for helping with identification of weeds
- Nonchemical and chemical strategies for controlling weeds.
- What the future of weed management looks like.

Registration required. https://go.rutgers.edu/xsvkelyg
This class is via Zoom. You will receive the zoom meeting invitation with your registration confirmation.

CENSUS OF AGRICULTURE REVEALS INCREASE IN NUMBER OF FARMS IN NEW JERSEY

Amount of Farms Nearly Reaches 10,000 Mark

(TRENTON) –The U.S. Department of Agriculture 2022 Census of Agriculture released Tuesday shows that New Jersey's agricultural industry added 115 new farms, leaving the Garden State just short of the 10,000 farms mark at 9,998. The increase went against the national trend, which showed a 7 percent decrease in the number of farms in the U.S.

"It is encouraging to see that more residents of our State are taking a deeper interest in our industry by becoming more heavily involved in agriculture," New Jersey Assistant Secretary of Agriculture Joe Atchison III said. "This shows there are opportunities to farm in our State. The Census data also confirms how we continue to grow a wide variety of crops to meet the diverse needs of our residents. It's a great credit to our farmers who continue to adapt to meet the most current demands of consumers."

New Jersey's overall agriculture products sold increased from just over $1.1 billion in 2017, to almost $1.5 billion in 2022.The data showed that the nursery, greenhouse, floriculture, and sod industry continues to be New Jersey's leading agricultural sector with sales at nearly $725 million, an increase of $225 million from the previous census. New Jersey ranks fifth in the nation in nursery stock sales at $296 million and is third in potted flowering plant sales at $77.5 million.

The vegetable industry is New Jersey's second highest in sales at nearly $295 million, followed by fruits and berries at nearly $200 million. The top three sectors comprise more than 80 percent of total sales for New Jersey agriculture. The Census showed that New Jersey continues to be among the top producers in the U.S. of several crops such as eggplant at No. 3, cranberries, and asparagus at each at No. 4, and blueberries at No. 5. Other crops New Jersey is ranked in the top 10 in the nation for production include peaches, plums, bell peppers, spinach, bok choy, escarole, kale, and romaine lettuce among others.

One sector that flourished was agritourism, which went from more than $18 million in total sales in the 2017 census to more than $29 million.

The amount of land in farms for New Jersey decreased to nearly 712,00 acres, down from the 2017 census number of 734,000 acres, when the stated added 20,000 acres of farmland. The percentage of decreased farmland in New Jersey was almost even with the national average, which saw a decrease of 2 percent.

The expense to farm in New Jersey increased by an average of $37,000 per farm per year, which was well below the national average increase of more than $60,000 per farm.

Conducted since 1840, the Census of Agriculture accounts for all U.S. farms and ranches and the people who operate them. More detailed data will be released throughout 2024, including information on individual counties, and congressional district profiles and rankings.

To be counted in the federal census, a farm must have sold or had the potential to sell at least $1,000 worth of agricultural products.

To learn more about the New Jersey Department of Agriculture, find us on Facebook at www.facebook.com/NJDeptofAgriculture and www.facebook.com/JerseyFreshOfficial or Twitter @NJDA and @JerseyFreshNJDA

Calendar of Events

• Indicates a newly added event

* Indicates Pesticide Credits Offered

* **March 6**

Cenral Jersey Turf & Ornamental Institute: Monmouth County Ag Building. 4000 Kozloski Rd,Freehold,NJ.

• **March 6**

Grape expectations: A Viticultural and Enological Synposium. 2024 Theme: Canopy managment as it relates to disease control, fungicide resistance, new weed control technologies, winemaking myths, and sustainability. 375 Forsgate Drive, Monrow Twp., NJ. Register online at: https://ce-catalog.rutgers.edu/coursedisplay.cfm?schID=91090.

* **March 8**

Central Jersey Vegtable Growers Meeting: Monmouth County Ag Building. 4000 Kozloski Rd,Freehold,NJ.

• **March 12**

Produce Saftey Webinar Series: Defining CEA and it's produce saftey best practices. Https://virginiatech.zoom.us/webinar/register/WN_ZOJEGQqjRPa47iAQd1UzYw#/registration

• **March 13**

USDA Conservation Stewardship Program: CSP educational webinar. CSP offers oppurtunities for agricultural producers and forest landowners to expand on existing conservation efforts by applying new conservation practices, enhancements,and bundles.

• **March 13**

12th Annual Soybean Producers Meeting: Rutgers University EcoComplex. 1200 Florence Columbus Rd. Bordentown, NJ. 8:30am- 3:00pm. Topics include: NOAA resources for the Agriculture Community and various weather hazards that impact New Jersey, Status of EPA's efforts to full-integrate the Endangered Species Act in pesticide registration, Extreme Ag speaker Temple Rhodes will discuss how to achieve higher soybean yields, pesticide education,integrated pest managment, forage crops, grain crop managment, and soil health and cover crops. Pesticide Education and Respirator Fit Testing.

• **April 10-11**

Bridging The Gaps: Approaches for treating preharvest agriculture water on-farm.1:00pm-5:00pm.
Efs.uga.edu. Register for $25.

• **May 29-30**

Bridging The Gaps: Approaches for treating preharvest agriculture water on-farm.1:00pm-5:00pm.
Efs@uga.edu. Register for $25.

Regularly Scheduled Meetings

Pesticide Credit Exams

Testing at
Rutgers Cooperative Extension
291 Morton Avenue
Millville, NJ 08332

April 16

Virutal testing available

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

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
March 21, 2024 at 6PM

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: 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

Sincerely,

Wesley L. Kline, Ph.D.
Cooperative Extension Agent
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Timothy J. Waller, Ph. D.
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Extension Department Head &
Environmental and Resource Mgt. Agent
Mangiafico@njaes.rutgers.edu

RUTGERS
New Jersey Agricultural
Experiment Station

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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Millville, NJ 08332-9791

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Central Jersey Vegetable Growers Meeting

Sign-Up Form

Kindly RSVP by

Monday, February 26, 2024

Fee: $30 per person which includes coffee with light fare in the morning and lunch

Name(s): _____

_____

Business Name: _____

Address:_____

State & Zip Code_____:_____

Phone: _____

E-Mail:_____

# of Attendees _____ X $30 = $_____

Payment is required with registration

Registrations are non-refundable

Please make checks payable to:

Rutgers, the State University of NJ

and mail to:

Rutgers Cooperative Extension

4000 Kozloski Road, Freehold, NJ 07728

For registration questions, call Cathy at 732-431-7260

or email to

Catherine.VanBenschoten@co.monmouth.nj.us

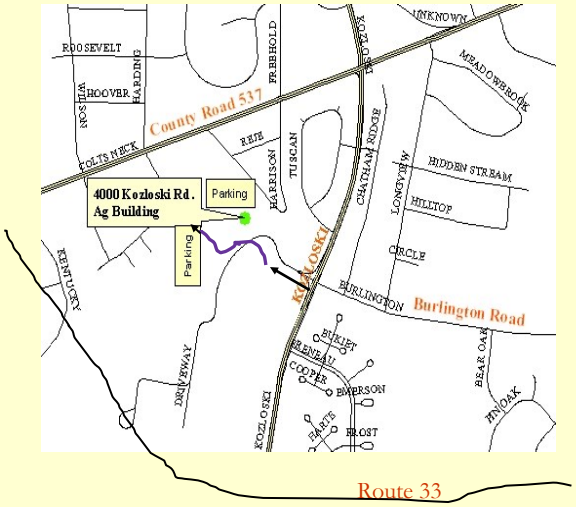
LOCATION

Monmouth County Ag Building

4000 Kozloski Road

Freehold, NJ 07728

(732) 431-7260



The Ag Building is located at 4000 Kozloski Road, located between Rt. 537 and Rt. 33. Traveling north on Kozloski, turn left at traffic signal on to First Responders Way. Traveling south on Kozloski, turn right at signal. Ag building is the red brick building with blue trim. Please park in rear of building or in the parking lot to the right of building as you enter the complex.

In case of extremely inclement weather, please call office at 732-431–7260 for message

RUTGERS

New Jersey Agricultural Experiment Station

Rutgers Cooperative Extension

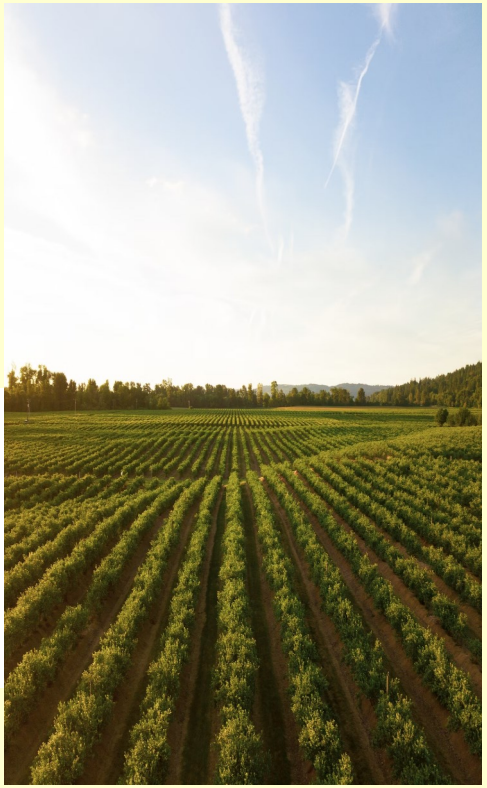
Central Jersey Vegetable Growers Meeting

Friday, March 8, 2024

8:30 a.m. - 4:00 p.m.

4000 Kozloski Road

Freehold, NJ 07728



Central Jersey Vegetable Growers Meeting

Friday, March 8, 2024

Agenda

8:30 a.m. - REGISTRATION

9:00 a.m. - Pesticide Safety for Applicators and Handlers
— Dr. George Hamilton

10:00 a.m. - Updates on Vegetable Disease Control
— Kris Holmstrom

11:00 a.m. - BREAK

11:15 a.m. - Updates from the Vegetable IPM Program
— Kris Holmstrom

12:15 p.m. - LUNCH

1:00 p.m. - Industry and Service Provider Updates from FSA, NRCS, Grown in Monmouth, Tri- County Co-op & NJ Vegetable Growers Association

2:00 p.m. - Rutgers Strawberry Production and Breeding
— William Hlubik

2:30 p.m. - Food Safety and NJ Cottage Food Law
— Meredith Melendez

3:00 p.m. - What You Need to Know About the Manure Link Program
— Sandra Howland

3:30 p.m. - Effective Weed Management in Vegetable Crops
— Dr. Thierry Besancon

4:00 p.m. - Course Evaluation Pesticide Credits

PLEASE READ THIS IMPORTANT INFORMATION!

All NJ Pesticide applicators MUST show a photo ID and Pesticide License Number

Approved DEP Pesticide Credits

CORE - 2 credits

1A - 6 credits

PP2 - 6 credits

10 - 6 credits

This Annual Event is brought to you by Rutgers Cooperative Extension of Monmouth, Middlesex, Burlington, Ocean & Somerset Counties.

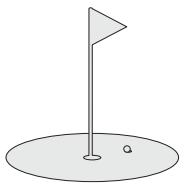
The cost of lunch and registration is $30

This annual event is brought to you by Rutgers Cooperative Extension of Middlesex, Monmouth, Mercer, Burlington, Ocean & Somerset Counties. Seminar topics will benefit those who work in grounds maintenance including school board members, maintenance supervisors, employees of highways, parks, cemeteries, industrial grounds, lawn & home ground services, garden center operators and nurserymen.

Available
Pesticide Credits:

Core -	2 units
2-	3 units
3A-	5 units
3B-	5 units
3C-	1 unit
6B-	3 units
8C-	6 units
8A-	1 unit
9-	3 units
10-	6 units
PP2-	5 units

ProFACT NJ Certified Fertilizer Applicator
2 Credits Available
Separate attendance/roster
form must be signed.



Directions to
Monmouth County Ag Building
732-431-7260

The Ag building is located on **4000 Kozloski Road,** located between Rt. 537 and Rt. 33.

-Traveling North on Kozloski, turn left at traffic signal on First Responders Way.

-Traveling south on Kozloski, turn right at the signal.

It is the red brick building with white and blue trim.

Please park in the rear of the building or the parking lot to the right of the building as you are driving in

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 program provider and employer.*

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New Jersey Agricultural Experiment Station
COOPERATIVE EXTENSION

presents

2024

Central Jersey Turf & Ornamental Institute

Wednesday
March 6

Monmouth County Ag Building

4000 Kozloski Road
Freehold, NJ

8:30 - 9:00 am
Registration/Sign In

9:00 - 9:30 am

Scouting & Diagnosing Common Disease Problems in Turf & Ornamentals
William Errickson
Agriculture & Natural Resources County Agent
Rutgers, NJAES, RCE of Monmouth County

9:30 - 10:00 am

Innovations in Weed Management
Matthew Elmore, Ph.D.
Specialist in Weed Science
Rutgers, NJAES, RCE

10:00 - 11:00 am

Pesticide Safety Regulations and Updates
George Hamilton Ph.D.
Specialist in Pest Management
Rutgers, NJAES

11:00 - 11:15 am Break

11:15am - 12:15 pm

Managing Invasive Plants
Michele Bakacs
Natural Resources County Agent
Rutgers, NJAES, RCE of Middlesex & Union County

12:15 - 1:00 pm Lunch

1:00 - 1:30 pm

Mosquito & Tick Problems in New Jersey: Identification, Management, and Protection for Green Industry Professionals
Dina Fonseca Ph.D. Professor,
Chair Dept. of Entomology, Rutgers University
Emily Fontaine
Program Associate, Dept. of Entomology

1:30 - 2:30 pm

Sustainable Turfgrass Fertility Management
Bradley Park
Researcher in Turfgrass Management
Rutgers, NJAES, RCE

2:30 - 3:00 pm

Invasive Insects & Ecological Balance
Steve Rettke
IPM Program Associate
Rutgers, NJAES

3:00 pm
Pesticide Credits and Adjourn

READ THIS IMPORTANT INFORMATION !
All NJ Pesticide applicators must show a photo ID and Pesticide License #. For ProFACT credits, bring your Fertilizer credit ID#

Central Jersey Turf & Ornamental Institute Sign-Up Form

Wednesday, March 6, 2024
Fees: $75 per person
(includes Continental Breakfast & Lunch)

Registration by cash, check, or purchase order only.
For registration questions phone: 732-431-7260, or e-mail Catherine.vanBenschoten @co.monmouth.nj.us

To register by mail :

Name(s):_____

Business Name:_____

Address: _____

State & Zip:_____

Phone: _____

E-mail:_____

# of Attendees____ X $ = $ _____

Payment is required with your registration.
Registrations are non-refundable.

Make checks payable to:
Rutgers, the State University of NJ
Mail to: Cathy Van Benschoten
Rutgers Cooperative Extension
4000 Kozloski Road
Freehold, NJ 07728

To pay by purchase order contact Cathy VanBenschoten 732-431-7260.

NEW JERSEY DEPARTMENT OF AGRICULTURE

NEWS RELEASE

New Jersey Department of Agriculture




IMMEDIATE RELEASE
February 21, 2024
www.nj.gov/agriculture
PO Box 330
Trenton, New Jersey 08625-0330

Contact:
Jeff Wolfe
P: (609) 913-6559
C: (609) 433-1785
E: jeff.wolfe@ag.nj.gov

SALEM COUNTY GROWER WINS NATIONAL OUTSTANDING YOUNG FARMER HONOR

Byron DuBois of Spring Brook Farms Recognized At Awards Congress

(TRENTON) – New Jersey's 2024 Outstanding Young Farmer Byron DuBois, of Salem County, was selected as a national winner at the 2024 National Outstanding Young Farmers Awards Congress held last week in Ferndale, Wash.

DuBois, with the support of his wife Karen, co-owns and operates Spring Brook Farms in Pittsgrove along with his father Henry. Byron was one of four national winners selected from a group of 10 finalists for the 2024 award based on their progress in an agricultural career, extent of soil and water conservation practices and contributions to the well-being of the community, state, and nation.

"It was a whirlwind of emotions this past week as Karen and I were blessed to represent New Jersey and Spring Brook Farms at the Outstanding Farmers of America (OFA) Congress as a top 10 national finalist of their National Outstanding Young Farmers (NOYF) program," Byron DuBois said. "All of the couples are amazing people and all well-deserved of their recognition. We were honored and humbled to have been chosen as one of the top four. It really could have been anyone in this great class of 2024."

Byron, a seventh-generation farmer, gave credit to his family for Spring Brook's success.

"I want to thank my parents, Henry and Marlene, for all the opportunities and support," he said. "My sister, Crystal, for her hard work and dedication to the farm, my cousin, Steve, for always being there no matter what time of day, and every one of the Spring Brook Farms family current and past. Without these hard-working dedicated people, we could not do what we do. I am looking forward to growing lifelong friendships with the NOYF Class of 2024 as well as the many other members of the OFA."

National winners will receive a cash award from the Outstanding Farmers of America, and all finalists are presented the opportunity to travel to Washington. D.C., during National Ag Week in 2025. In addition, all 2024 finalist registrants will be covered for their attendance at the 2025 National Outstanding Farmer Congress.

"The work Byron and his family have done over the past several years made them an exemplary candidate and we are proud they were recognized nationally with this honor," NJDA Assistant Secretary of Agriculture Joe Atchison III said. "Byron's passion for agriculture and vision for his family's operation has made Spring Brook one of the outstanding farms in New Jersey as well as being a shining example to other farms in our state and the country."

Byron learned many intricacies of the business from Henry. By the time he was a teenager, Byron was operating equipment for spinach harvest, combining grain, and harvesting green beans. The primary crops grown on the more than 4,000 acres owned by Byron and his father include carryover spinach, spring spinach, fall spinach, winter spinach, sweet corn, tomatoes, field corn, soybeans, and wheat.

Throughout the years, Byron has led the farm's efforts to become more efficient in many facets of the operation. This includes upgrading equipment for quicker spinach and tomato harvests, and using GPS technology for more precise planting, harvesting and treatment methods. The farm also uses detailed mapping information to find specific soil types in fields, which in turn has led to more economical use of fertilizers and irrigation.

The DuBois farm participates in the USDA's Conservation Reserve Enhancement Program (CREP) and Natural Resources Conservation Service Irrigation Water Management Programs that have helped reduce soil erosion allowing water to drain from fields without soil disturbance.

Other National Outstanding Young Farmer winners from New Jersey have been Abbott Lee in 1985, James Giamarese in 1989, Robert Von Thun in 2001, Jeff Vander Groef in 2005, Will Sytsema in 2009, Richard Norz in 2010, John Melick in 2011, Duce Tallamy in 2012, Jess Niederer in 2016, and Hillary Barile in 2021.

The NOYF program is the oldest farmer recognition program in the United States, with the first group of national winners selected in 1955. The goals of the NOYF program are to foster better urban-rural relations through the understanding of farmers' challenges, as well as the appreciation of their contributions and achievements; to bring about a greater interest in farmers/ranchers; and to help build an urban awareness of the farmers' importance and impact on America's economy.

The NOYF program encourages a greater interest in agriculture and recognizes local citizens' contributions. The NOYF program is sponsored by Deere & Company, administered by the Outstanding Farmers of America Fraternity, and supported by the National Association of County Agricultural Agents, the National Association of Conservation Districts, and the US Junior Chamber of Commerce.

For more information on New Jersey's Outstanding Young Farmer program, go to https://www.nj.gov/agriculture/about/sba/cover.html or contact Assistant Secretary/Marketing and Development Division Director Joe Atchison at joe.atchison@ag.nj.gov.

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To learn more about the New Jersey Department of Agriculture, find us on Facebook at www.facebook.com/NJDeptofAgriculture and www.facebook.com/JerseyFreshOfficial or Twitter @NJDA and @JerseyFreshNJDA.

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MARCH 12TH, 2024
3:30 TO 5:00 PM ET

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80 ACRES

DEFINING CEA AND IT'S PRODUCE SAFETY BEST PRACTICES

MEREDITH MELENDEZ
RUTGERS

CONTACT

https://virginiatech.zoom.us/webinar/register/WN_ZOJEGQqjRPa47iAQd1UzYw#/registration

This work is supported by the Specialty Crops Research Initiative 2020-51181-32157 from the USDA National Institute of Food and Agriculture. Any opinions, findings, conclusions, or recommendations expressed in this presentation are those of the author(s) and do not necessarily reflect the view of the U.S. Department of Agriculture.

USDA Natural Resources Conservation Service
U.S. DEPARTMENT OF AGRICULTURE

Conservation Stewardship Program

Is CSP right for me?

CSP offers opportunities for agricultural producers and forest landowners to expand on existing conservation efforts by applying new conservation practices, enhancements, and bundles.

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For additional information contact us: 732- 616-0314 or tairi.colon@usda.gov

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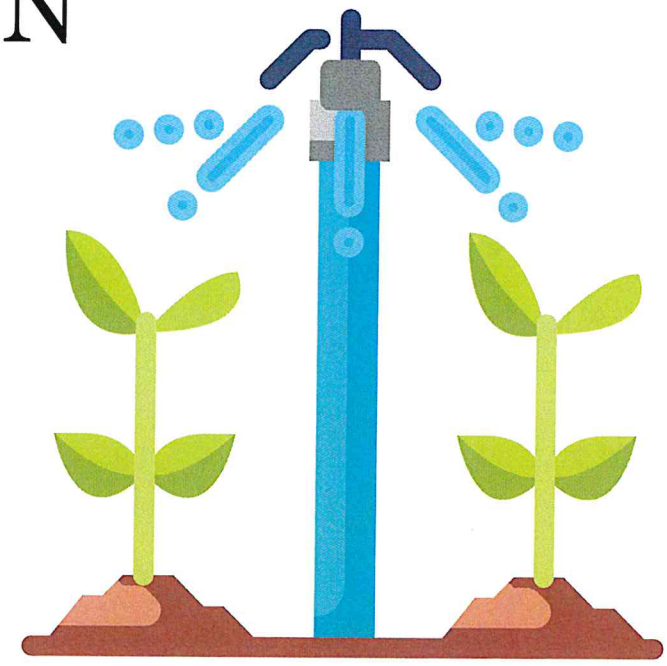
Zoom course



BRIDGING THE GAPS: APPROACHES FOR TREATING PREHARVEST AGRICULTURAL WATER ON-FARM

April 10-11

1 PM - 5 PM

Scan the QR Code for More Information

May 29-30

1 PM - 5 PM

Scan the QR Code for More Information

Fruit and vegetable growers are continually assessing their operations to determine where they can limit risk and increase productivity. Join this **virtual training** to learn about different approaches to treating water on-farm; how to implement these systems to meet requirements of the Produce Safety Rule; and how to verify that the system is operating as intended. **Register for $25.**

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

Calendar date predictions for target range as of ***2/26/2024 SUBJECT TO CHANGE***

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Information compiled by Dr. Timothy J. Waller - Rutgers Cooperative Extension - Cumberland County

Growth Stage	Gen.	GDD50 TARGET RANGE -LOW-	GDD50 TARGET RANGE -HIGH-	SOUTH Upper Deerfield (NJ50) LOW (DATE)	SOUTH Upper Deerfield (NJ50) HIGH (DATE)	CENTRAL Howell (NJ10) LOW (DATE)	CENTRAL Howell (NJ10) HIGH (DATE)	NORTH High Point (NJ59) LOW (DATE)	NORTH High Point (NJ59) HIGH (DATE)	NOTES (high infestation locations) *Systemic (S) - Contact (C) - Biologicals (B) - Herbicides (H)*	Material / Compound Considerations (*Examples = no endorsements implied*) [IRAC GROUP #]
Egg hatch - larvae	1	242	600	**12-May**	4-Jun	**17-May**	10-Jun	**2-Jun**	26-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]-** Dinotefuran (Safari 20SC) ; Thiomethoxam (Flagship 25 WG) ; Imidacloprid (Imidacloprid 2F, Marathon 1%G, Marathon II)
Adults (feeding / laying eggs)	1	517	1028	**31-May**	23-Jun	**6-Jun**	29-Jun	**22-Jun**	19-Jul	**(S/C/B) Start adult contact sprays - continue systemic treatments** **(H) Control 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	**14-Jul**	24-Jul	**21-Jul**	1-Aug	**16-Aug**	2-Sep	**(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] (Decathalon 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	**25-Jul**	11-Aug	**2-Aug**	20-Aug	**4-Sep**	-	**(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** (Captiva Prime)

*** A third generation of larvae and feeding adults is possible in warmer years ***

Estimated using USPEST.org. (https://uspest.org/dd/model_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. Kunkel - Extension Specialist - University of Delaware - subject to change. Treatment considerations based on research performed by Danny Lauderdale - Area Specialized Agent - Nursery Crops, NC State University.

Photos: Steve Rettke - Rutgers Cooperative Extension

MAKE SURE YOU ARE NOT DEALING WITH FOLIAR DISEASES TOO

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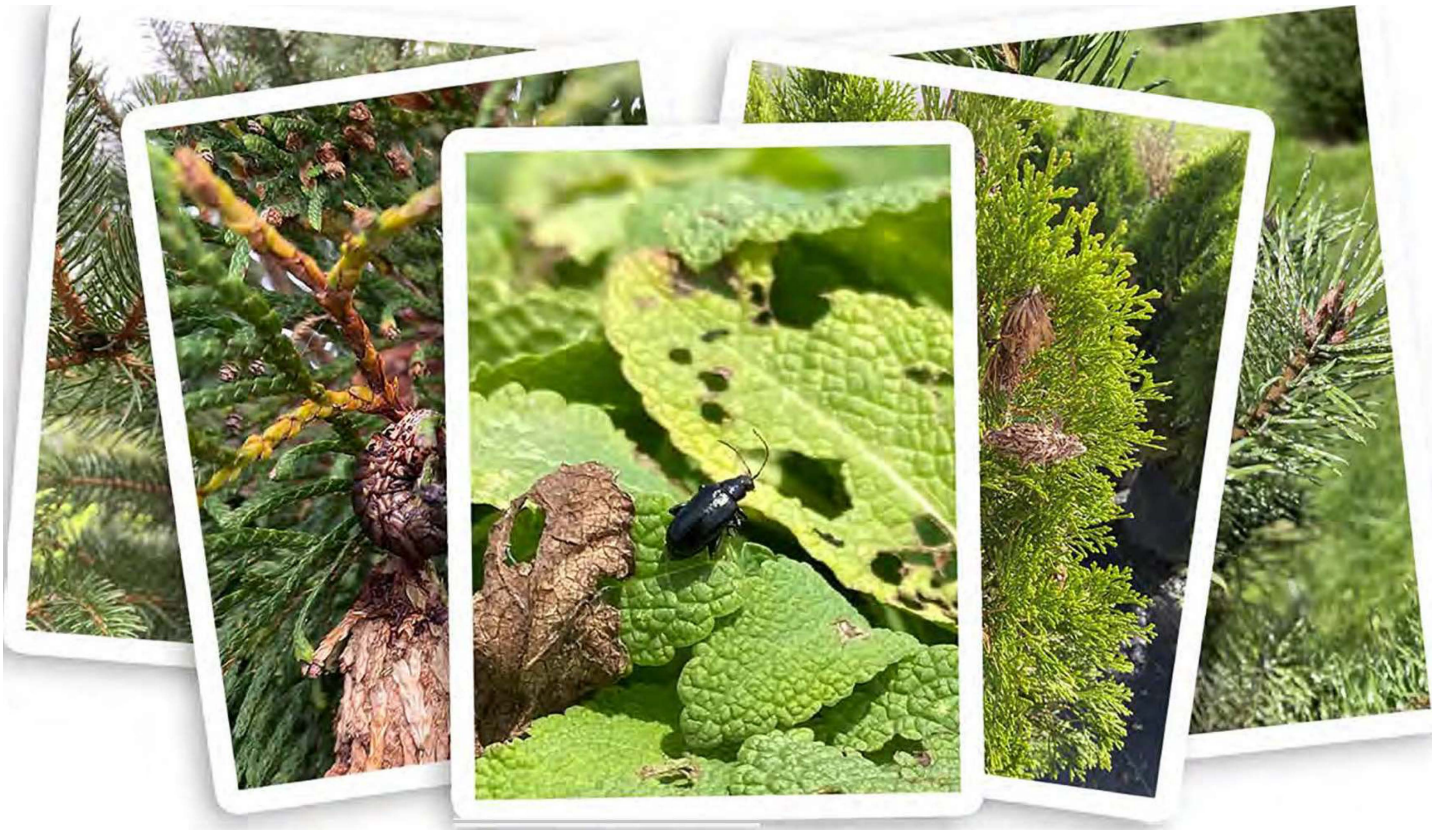
New Jersey Agricultural Experiment Station

Online version >

Contact: twaller@njaes.Rutgers.edu

Nursery & Landscape Pest Scouting
Scouting with growing degree-days



Rutgers Green Industry Working Group

Contact: Timothy Waller, Ph.D.

twaller@njaes.Rutgers.edu

Report GDD Deviations & Leave feedback

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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 program provider and employer.

Projected GDD50 accumulation as of 3/1/2023 - Southern NJ

CODE	Location	1-Mar	1-April	1-May	1-June	1-July
NJ50	Upper Deerfield (NJ50)	6	14	123	530	1207
D4116	Bridgeton	12	18	127	533	1211
NJ73	Vineland	10	15	85	436	1061
NJ05	Greenwich	9	17	126	532	1210

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
Mites	**Conifer rust mites**	*Eriophyidae*	7	22	4	Overwintering eggs hatch	Conifer
Mites	**European red mite**	*Panonychus ulmi*	7	58	2	1st adults active	Pomes, Stone fruit
Weevil	**White pine weevil**	*Pissodes strobi*	7	58	RU	Overwintering adults become active / prevent egg laying	Conifer
Mites	**Southern red mite**	*Oligonychus ilicis*	7	91	5	Overwintering eggs hatch	Many
Scale / Adelgid / Whitefly / Psyllid	**Taxus mealybug**	*Dysmicoccus wistariae*	7	91	2	Spring control of overwintering stage	Conifer
Scale / Adelgid / Whitefly / Psyllid	**Oystershell scale**	*Lepidosaphes ulmi*	7	91	2	Spring control of overwintering stage	Deciduous
Scale / Adelgid / Whitefly / Psyllid	**Cottony camellia / taxus scale**	*Pulvinaria floccifera*	7	91	5	Spring control of overwintering stage	Deciduous, Yew
Aphids / Thrips	**Aphids**	*Aphidoidea*	7	120	2	Spring control of overwintering stage	Many
Scale / Adelgid / Whitefly / Psyllid	**Elongate hemlock scale**	*Fiorinia externa*	7	120	2	Spring control of overwintering stage	Conifer
Mites	**Spruce spider mite**	*Oligonychus ununguis*	7	121	RU	Overwintering eggs hatch	Conifer
Scale / Adelgid / Whitefly / Psyllid	**Golden oak scale**	*Asterolecanium variolosum*	7	121	5	Spring control of overwintering stage	Oaks
Weevil	**Pales weevil**	*Hylobius pales*	7	121	RU	Overwintering adults become active / prevent egg laying	Conifer
Scale / Adelgid / Whitefly / Psyllid	**Tuliptree scale**	*Toumeyella liriodendri*	12	121	2	Spring control of overwintering stage	Magnoliaceae
Scale / Adelgid / Whitefly / Psyllid	**Pine bark adelgid**	*Pineus strobi*	22	58	2	Spring control of overwintering stage	Conifer
Aphids / Thrips	**White pine aphid**	*Cinara strobi*	22	91	RU	Spring control of overwintering stage	White and Scotch Pine
Scale / Adelgid / Whitefly / Psyllid	**Magnolia scale**	*Neolecanium cornuparvum*	22	91	2	Spring control of overwintering stage	Magnoliaceae
Scale / Adelgid / Whitefly / Psyllid	**Spruce bud scale**	*Physokermes piceae*	22	120	2	Spring control of overwintering stage	Conifer
Scale / Adelgid / Whitefly / Psyllid	**Juniper scale**	*Carulaspis juniperi*	22	148	2	Spring control of overwintering stage	Conifer
Caterpillar	**Zimmerman pine moth**	*Dioryctria zimmermani*	25	100	3	1st larvae	Conifer
Scale / Adelgid / Whitefly / Psyllid	**Eastern spruce gall adelgid**	*Adelges abietis*	25	100	3	Spring control of overwintering stage	Conifer
Weevil	**Northern pine weevil**	*Pissodes approximatus*	25	100	4	1st adults active	Conifer
Scale / Adelgid / Whitefly / Psyllid	**Cooley spruce gall adelgid**	*Adelges cooleyi*	25	120	3	Spring control of overwintering stage	Conifer
Weevil	**White pine weevil**	*Pissodes strobi*	25	220	4	1st adults active	Conifer
Scale / Adelgid / Whitefly / Psyllid	**Euonymus scale**	*Unaspis euonymi*	35	120	2	Spring control of overwintering stage	Many, evergreen
Sawfly - Wasp	**European pine sawfly**	*Neodiprion sertifer*	35	145	1	Hatched larvae	Conifer
Scale / Adelgid / Whitefly / Psyllid	**European fruit lecanium scale**	*Parthenolecanium corni*	35	145	2	Spring control of overwintering stage	Shade trees
Scale / Adelgid / Whitefly / Psyllid	**Fletcher scale**	*Parthenolecanium fletcheri*	35	148	2	Spring control of overwintering stage	Conifer
Caterpillar	**European pine shoot moth / borer**	*Rhyacionia buoiana*	50	220	4	1st larvae active	Conifer