

Cultivating Cumberland

March- 2023

Vol. 28, Issue 3

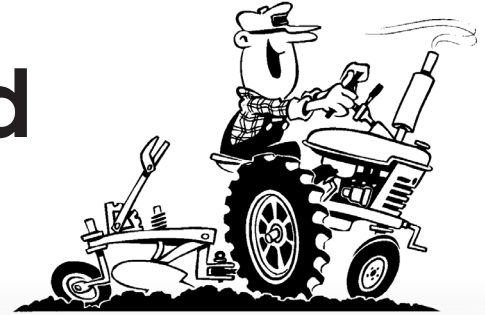


Table of Contents

Agriculture Technology Seminar	1
WPS Resources Posted to Rutgers NJAES WPS Training Recordkeeping Webpage	2
Organic Grower Advisory 3/7 Registration Open	3
Save New Jersey's Wetlands with ACEP-WRE	4
Upcoming Rutgers On-Farm Food Safety Team Trainings	4
Produce Safety Handbook	5
Posted Pesticide Safety Info	6-8
Calendar of Events	9
Regularly Scheduled Meetings	10

Attachments:

- Updates for the 22/23 Mid-Atlantic Commercial Vegetable Production Recommendations
- PP&A Sign-up
- Nursery Conifers Sign-up
- Dean's Report
- Nursery & Landscape Pest Scouting with Growing Degree Days

AGRICULTURE TECHNOLOGY

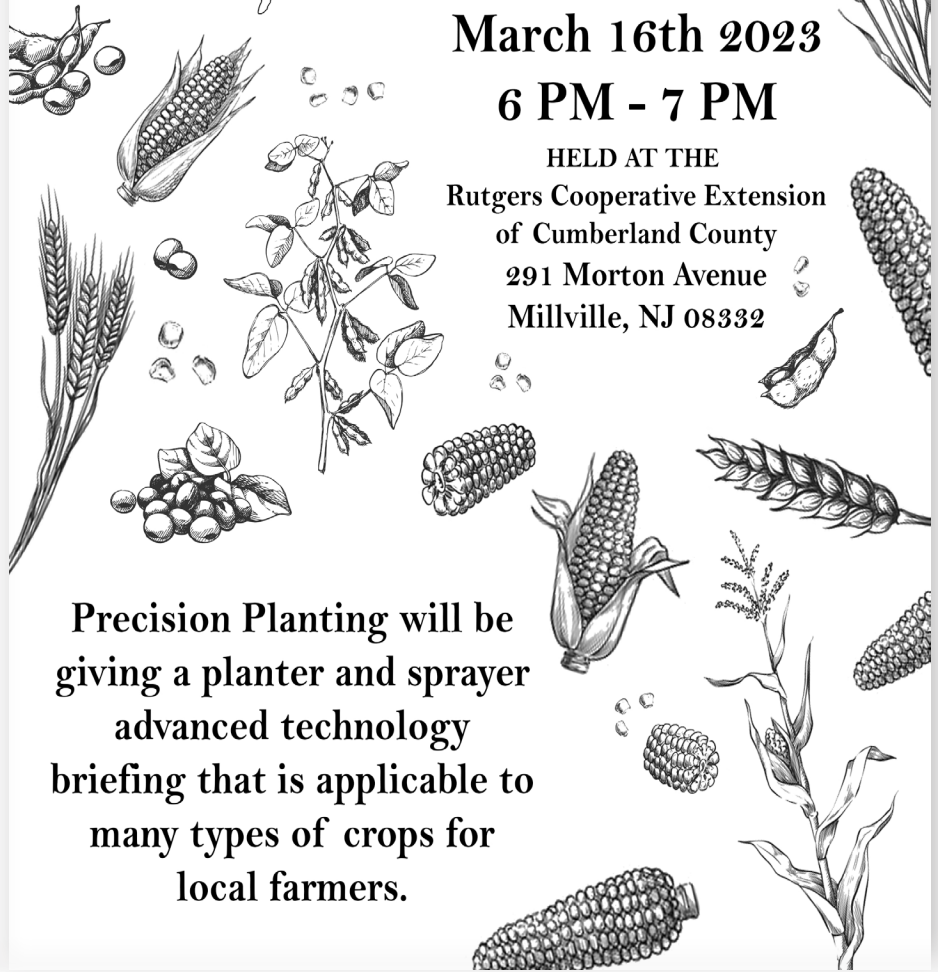
BRIEFING

Hosted by the
Cumberland County
Board of Agriculture
Garden spot of the Garden State

March 16th 2023

6 PM - 7 PM

HELD AT THE
Rutgers Cooperative Extension
of Cumberland County
291 Morton Avenue
Millville, NJ 08332



Precision Planting will be
giving a planter and sprayer
advanced technology
briefing that is applicable to
many types of crops for
local farmers.

New Webpage: WPS Resources Posted to Rutgers NJAES WPS Training Recordkeeping Webpage

February 5, 2023; Pat Hastings

Recordkeeping of WPS Pesticide Safety Training

Employers are required by the Revised Worker Protection Standard regulations to retain records of WPS training for 2 years. The 2020 revised New Jersey regulations on worker and handler training recordkeeping are more stringent, requiring that training rosters be maintained by both the trainer and the agricultural employer for three years. The NJDEP Worker Protection website has downloadable forms for trainer recognition, worker training rosters, and handler training rosters; see <https://www.nj.gov/dep/enforcement/pcp/pcp-wps.htm> for forms and retention times and responsible parties.

As a public service, Rutgers NJAES PSEP has produced pdf and Word formats of training rosters for WPS recordkeeping at its new webpage WPS Training Recordkeeping. Click and save files to your computer.

For Further Information: Contact Rutgers NJAES PSEP Coordinator Pat Hastings by phone at 848-932-0176 or email at pdh@rutgers.edu.

See the NJDEP Worker Protection website. For specific questions about NJDEP's implementation of the revised WPS, please contact Supervisor of the Worker Protection Unit Nancy Santiago at 609-984-6568, or contact her by email at pcp@dep.nj.gov.

Handler Training Rosters

NJAES WPS Downloadable Handler Training Rosters

- must be sent to the NJDEP by the trainer or agricultural employer within 30 days after each training session.
- must be maintained on file by both the trainer and agricultural employer for three years.
- Download Rutgers NJAES Handler Training Roster Word document
- Download Rutgers NJAES Handler Training Roster editable pdf document

Worker Training Rosters

NJAES Downloadable Worker Training Rosters

- records are no longer required to be sent to the NJDEP, but must be available upon request.
- must be maintained on file by both the trainer and agricultural employer for three years.
- Download Rutgers NJAES Worker Training Roster Word document
- Download Rutgers NJAES Worker Training Roster editable pdf document

All rosters must be maintained in New Jersey on file for 3 years by BOTH the WPS trainer and the agricultural employers.

Organic Grower Advisory 3/7 Registration Open

February 16, 2023; Meredith Melendez

The Rutgers Organic Grower Advisory meeting will be held on March 7th. This meeting has served to increase communication between commercial farms using organic practices and Rutgers Cooperative Extension agricultural agents and specialists. This year the meeting will be held both in-person and online. We have a AV system that will allow for better sound quality for all participants. Please see details below, and use the Qualtrics link to register if you plan to attend.

March 7th 10:00 – 2:00
Rutgers Cooperative Extension of Mercer County
1440 Parkside Avenue, Ewing NJ 08638
OR Online via Zoom

In-person attendees will have a pizza lunch option at a cost of \$5.00 per person, payable at the door.

Registration deadline is March 3rd

Register online at https://rutgers.ca1.qualtrics.com/jfe/form/SV_efy6V5EH8QOfMnY

Examples of hot topics for discussion from the 2021 Organic Grower Advisory meeting are:

- Weed control updates
- Organic animal feed
- Allium leaf miner
- Spotted lanternfly
- Organic sweet corn
- Disease control
- Organic certifications

Save New Jersey's Wetlands with ACEP-WRE

HAMILTON SQUARE, N.J. – The U.S. Department of Agriculture's Natural Resource Conservation Service (NRCS) in New Jersey is now accepting additional applications for the Agricultural Conservation Easement Program - Wetland Reserve Easements (ACEP-WRE) through the Inflation Reduction Act (IRA). Applications that meet eligibility and ranking criteria in IRA ACEP-WRE targeted areas received by March 17, 2023, will be considered for FY2023 funding.

IRA ACEP-WRE helps landowners, land trusts, and other entities protect, restore, and enhance wetlands through the funding of conservation easements on priority land areas. IRA priority land areas include regions identified with soils high in organic carbon that will reduce, capture, avoid, or sequester carbon dioxide, methane or nitrous oxide emissions.

Wetland Reserve Easements allow landowners to successfully enhance and protect habitat for wildlife on their lands, reduce impacts from flooding, recharge groundwater, and provide outdoor recreational and educational opportunities. NRCS provides technical and financial assistance directly to private and tribal landowners to restore, protect and enhance wetlands through the purchase of these easements, and eligible landowners can choose to enroll in a permanent or 30-year easement.

Applications for IRA ACEP-WRE are available through your local USDA Service Center (Vineland Service Center, 1318 S Main Rd Bldg 5A, Vineland, NJ 08360-6511 telephone (856) 205-1225 and online at <https://www.nrcs.usda.gov/getting-assistance/get-started-with-nrcs>.

UPCOMING RUTGERS ON-FARM FOOD SAFETY TEAM TRAININGS



Advanced Audit Training - 3/1/23 9AM-12PM \$15

COURSE HELD ONLINE ONLY

Blueberry Growers Training - 3/15/23 10AM-1PM \$50

Philip E. Marucci Center, 125a Lake Oswego, Chatsworth, NJ 08019

<https://go.rutgers.edu/kcx1n6bj>

(URL MUST BE TYPED IN LOWERCASE)

FOR MORE INFORMATION 856-451-2800 X 1 OR BRANDIWI@CUMBERLANDCOUNTYNJ.GOV



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.

Produce Safety Handbook for Buyers

New Website is Now Live!

NECAFS is excited to announce an online handbook for produce buyers that clarifies the complex landscape of food safety regulations and standards across states in the Northeast.

The Produce Safety Handbook for Buyers:

- summarizes the produce safety landscape in the Northeast, and
- helps buyer navigate each state's produce safety audit and inspection information.

To do this, the site provides:

- an interactive regional map that drills down to the state level,
- farm production statistics by state,
- glossary of terms with common audit and inspection language,
- state inspection and audit information in simple charts and tables, and
- regional content in a side-by-side display.

Direct link: <https://buyers.necafs.org>

Acknowledgements

This project is funded by the Food Safety Outreach Program grant no. 2019-70020-30338 from the USDA National Institute of Food and Agriculture.

This work was identified as a need by the buyers workgroup at the 2019 NECAFS Annual Conference and Meeting.

The work was led by:

- Elizabeth Newbold, NECAFS, University of Vermont
- Hans Estrin, University of Vermont
- Wes Kline, Rutgers University
- Jennifer Matthews, Rutgers University
- Pete Land, Tamarack Media Cooperative (Burlington, VT)

We would like to thank the Northeast State Produce Safety Programs for their support in collecting and reviewing state audit and inspection information.

Finally, thank you to the advisory group of buyers who provided their time and insight. They supported the work with extensive review of the handbook and gave valuable feedback.

Posted Pesticide Safety Information Required for Central Posting Area

February 7, 2023 by Pat Hastings

EPA first implemented the Federal Worker Protection Standard – CFR Title 40, Part 170 (WPS) regulations in 1994 to provide specific safety requirements for both general agricultural workers and pesticide handlers. The 1992 WPS regulations were revised on November 2, 2015. State regulations may differ, and when more stringent take precedence over federal regulations. The NJDEP Agricultural Worker Protection regulations [N.J.A.C. 7:30 Subchapter 12] were revised on April 6, 2020, and incorporate or exceed the revisions of the federal WPS.

7:30-12.9 Posted pesticide safety information

(a) When workers are on an agricultural establishment and, within the last 30 days a pesticide covered by this subchapter has been applied on the establishment or a restricted-entry interval has been in effect, the agricultural employer shall display, in accordance with this section, pesticide safety information. The safety information shall convey, in a manner the workers can understand, all of the following points:

1. Help keep pesticides from entering your body. At a minimum, the following points shall be conveyed:
 - i. Avoid getting on your skin or into your body any pesticides that may be on or in plants, soil, irrigation water, tractors and other equipment, or used personal protective equipment, or pesticides drifting from nearby applications.
 - ii. Wash before eating, drinking, using chewing gum or tobacco, or using the toilet.
 - iii. Wear work clothing that protects the body from pesticide residues (long-sleeved shirts, long pants, shoes and socks, and a hat or scarf).
 - iv. Wash/shower with soap and water, shampoo hair, and put on clean clothes after work.
 - v. Wash work clothes separately from other clothes before wearing them again.
 - vi. If pesticides are spilled or sprayed on the body, use decontamination supplies to wash immediately, or rinse off in the nearest clean water, including springs, streams, lakes, or other sources if more readily available than decontamination supplies, and, as soon as possible, wash or shower with soap and water, shampoo hair, and change into clean clothes.
 - vii. Follow directions about keeping out of treated areas and application exclusion zones.
 - viii. Instructions to employees to seek medical attention as soon as possible if they believe they have been poisoned, injured, or made ill by pesticides.
 - ix. The following contact information for New Jersey's pesticide regulatory agency:

New Jersey Department of Environmental Protection
Bureau of Pesticide Compliance and Enforcement
Mail Code 401-04A
401 East State Street
PO Box 420
Trenton, New Jersey 08625-0420
Telephone: (609) 984-6568
Internet address: <http://www.nj.gov/dep/enforcement/pcp/pcp-wps.htm>

2. There are Federal/State rules to protect workers and handlers, including a requirement for safety training.

3. The name, address, and telephone number of a nearby operating medical care facility capable of providing emergency medical treatment. This information shall be clearly identified as emergency medical contact information on the display.

i. The agricultural employer shall update the pesticide safety information display within 24 hours of notice of any change to the information on emergency medical care facilities.

(b) The pesticide safety information shall be displayed at each of the following sites on the agricultural establishment:

1. A location where it can be readily seen and read by workers and where workers are likely to congregate or pass by.

2. Locations on the agricultural establishment where decontamination supplies shall be provided, but only when the decontamination supplies are located at permanent sites or being provided at locations and in quantities to meet the requirements for 11 or more workers.

(c) Workers shall be informed of the location of the information and shall be allowed access to it at all times during normal work hours.

(d) The information shall remain legible during the time it is posted.

One of the basic requirements for providing information to farmworkers include displaying WPS-required pesticide safety information at a central location (and certain decontamination sites). Safety information may be displayed in any format, including a poster that meets the requirements. The Pesticide Education Resource Collaborative (PERC) developed for EPA a WPS safety information poster. The post WPS "Protect Yourself from Pesticides" Poster Now Available was posted to the PSEP blog on July 6, 2017; see <https://pestmanagement.rutgers.edu/wps-protect-yourself-from-pesticides-poster-now-available/> for more details.

Rutgers PSEP distributed laminated Safety Posters to attendees at the NJAES Twilight Meetings during the 2022 growing season. Rutgers PSEP has developed a downloadable Pesticide Safety Poster Infographic using the the PERC WPS Pesticide Safety Poster as an example (see left). Download the infographic for yourself at: WPS Infographic NJAC 7 30 12.9 Poster use for posted pesticide safety information. Make sure to click it to open it. It includes an excerpt of the New Jersey pesticide regulations on posting of pesticide safety information showing where to insert NJDEP-required information on the Safety Poster.

NJDEP regulations require that posted safety information shall include:

Contact information for New Jersey's pesticide regulatory agency:

New Jersey Department of Environmental Protection

Bureau of Pesticide Compliance and Enforcement

Mail Code 401-04A

401 East State Street

PO Box 420

Trenton, New Jersey 08625-0420

Telephone: (609) 984-6568

Internet address: <http://www.nj.gov/dep/enforcement/pcp/pcp-wps.htm>

The name, address, and telephone number of a nearby operating medical care facility capable of providing emergency medical treatment. This information shall be clearly identified as emergency medical contact information on the display. The agricultural employer shall update the pesticide safety information display within 24 hours of notice of any change to the information on emergency medical care facilities.

In addition, agricultural employers must also provide workers and handlers access to both Safety Data Sheet (SDS) and pesticide application information for applications at the establishment. This requirement will be covered in a separate post soon.

For inquiries, contact Pat Hastings by phone at 848-932-0176 or by email at pdh@rutgers.edu.

Calendar of Events

- Indicates a newly added event

March 1

Landscape New Jersey Trade Show & Conference; Meadowlands Exposition Center, 355 Plaza Dr., Secaucus, NJ 07094; 250+ exhibitor booths, networking opportunities, educational opportunities; and much more. Find more info and sign up online at <https://www.njlandscapeshow.com/>

March 15

DEP Pesticide Testing In-Person; RCE Cumberland County, 291 Morton Ave., Millville, NJ 08332; 10AM or 12PM; No walk-ins allowed. Must pre-register at pacer.rutgers.edu

March 15

Food Safety Training for Blueberry Growers; Philip E. Marucci Center for Blueberry and Cranberry Research; 125a Lake Oswego, Chatsworth, NJ 08019; \$50.00 per person, lunch included; Topics Covered: Traceability Update; Food Safety Issues on Blueberry Farms; When do hazards become risks? And more... Sign up at <https://www.eventbrite.com/o/rutgers-on-farm-food-safety-team-14509694831>

March 15

Apple Crop Outlook and Marketing; Conference Hilton Capitol Hill Washington, D.C. www.usapple.org/events/usapple-capitol-hill-day-3

March 16

32nd Annual Rutgers Turfgrass Symposium; The Center for Turfgrass Science at Rutgers University, Room 101 Institute for Food, Nutrition and Health Building; Oral presentations will run from 9:00 AM to 4:00 PM. Dr. Gary Muehlbauer (Distinguished McKnight University Professor, Department of Agronomy and Plant Genetics, University of Minnesota) will present a keynote address on barley and wheat molecular genetics. This year's symposium will focus on modern approaches to research in turfgrass science; Register by February 28; Go to <https://turf.rutgers.edu/>

March 22

From the Ground Up: Produce Safety Planning for Beginning Growers; RCE of Mercer County, 1440 Parkside Ave, Ewing, NJ 08638; Register by March 15; Individuals who participate in this course will gain a basic understanding of: Food Safety Culture and Why It is Important; Five Things Growers Can Do Right Away On Their Farm to Reduce Risk; Cleaning and Sanitizing; Key points of FSMA: PSR that growers need to know; Sign up at <https://onfarmfoodsafety.rutgers.edu/>

March 30-April 1

Viva Fresh Expo Gaylord Texas Resort Gaylord, Texas www.vivafreshexpo.com/

May 8-11

Food Safety Summit; Donald E Stephens Convention Center, Rosemont, IL; The Food Safety Summit is a solution-based conference and expo designed to meet the educational and informational needs of the entire food industry. The Summit provides a 3-day comprehensive educational program to learn from subject matter experts, trainers, exchange ideas and find solutions to your current job challenges; Find more information and register online at <https://www.food-safety.com/food-safety-summit>

Sept. 25-27

Florida Fruit & Vegetable Association Annual Convention Ritz Carlton Hotel Naples, FL. www.ffva.com/page/convention

Regularly Scheduled Meetings

Pesticide Credit Exams

3/15/22 Millville RCE

Virtual 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 2nd
Tuesday of each month.
Meetings start at 7 p.m.

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

Cumberland County Board of Agriculture

Meetings are held on the
3rd Thursday of September - May
at 7 p.m. in-person at RCE

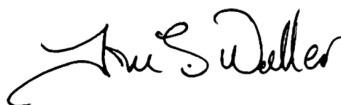
Next meeting
March 16, 2023

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

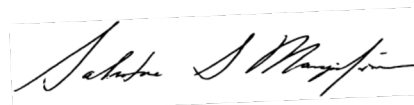
Sincerely,



Wesley L. Kline, Ph.D.
Cooperative Extension Agent
Vegetable Production and Food Safety
WKline@njaes.rutgers.edu



Timothy J. Waller, Ph. D.
Cooperative Extension Agent
Nursery Production
TWaller@njaes.rutgers.edu



Salvatore Mangiafico, Ph. D.
Extension Department Head &
Environmental and Resource Mgt. Agent
Mangiafico@njaes.rutgers.edu

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.

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



Since 1915

NONPROFIT ORGANIZATION
U.S. POSTAGE PAID
VINELAND, NJ
PERMIT NO. 186

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

RUTGERS
New Jersey Agricultural
Experiment Station



Wildlife Habitat Field Day

(Early Earth Day)

Saturday, April 15th from 9am to 1pm
Landis Sewerage Authority, 1776 South Mill Road, Vineland, New Jersey.

The Landis Sewerage Authority and our partners NJ Fish & Wildlife, NJ Forest Fire Service, Cumberland County Improvement Authority, NJ Audubon Society, National Wild Turkey Federation, Woodcock Conservancy, Pinecreek Forestry, Green Thumb Reforestation & NJ Watershed Ambassadors invite your group to come out to learn about and work on enhancing our wildlife habitats with us!

Activities Include

Wildlife Habitat Education

- Learn why wildlife and their habitats have been declining and how they can be restored in NJ
- Learn what we, as humans need to do in order to restore these habitats
- Learn how we will attempt to reintroduce wildlife, such as Bobwhite quail in NJ

Wildlife Habitat Creation

- We will seed wildflowers, plant warm season native grasses, and plant over 400 seedlings during the course of the day
- All introduced plants are beneficial to all wildlife, especially the Bobwhite quail

Presentations

- On protecting the environment, recycling, wildlife, and habitat creation

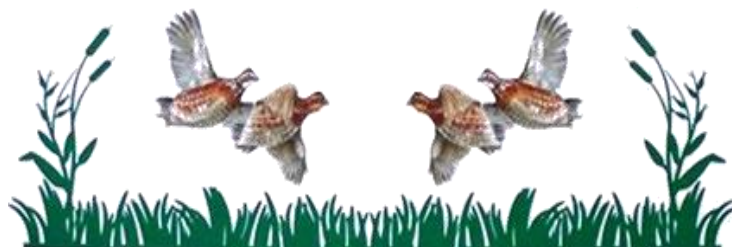
Breakfast, lunch, and participation gifts will be provided!

Come and enjoy a day of fun, education, and food!

Please contact Daniel Reed, LSA at (609) 839-8773 for additional information and to inform us of your attendance by April 1st.

Directions to LSA: from N or S, take Rt. 55 to Exit 32A and exit onto Rt. 56 east (Landis Ave). Make the first right turn onto S Mill Road and follow until dead end at LSA.

Landis Sewerage Authority's Early Successional Habitat Projects



Critical Updates for the 2022/2023 Mid-Atlantic Commercial Vegetable Production Recommendations (January 2023)

Chapter F. Horticulture

Beans Varieties

Lima Beans Emperor: 80 days, cold soil tolerance

Cole Crops Varieties

Broccoli Apollo (*spelling correction*)

Brussels Sprouts

Variety	Hybrid	Maturity
Marte	Yes	Early

Green Cabbage

Variety	F1	Maturity	Lbs	Shape	Use	Y	BR	TB	Thr	SH
Artost	yes	Early	3-6	Round	F, P	H		H		H
Capture	yes	Late	3-6	Round	F, P	H	M			
Checkmate	yes	Early	2-3	Round	F	H				H
Tiara	yes	Early	1-2	Round						

Cauliflower

Variety	F1	Color	Maturity	Season	Self-Wrapping
Toledo	Yes	White	Midseason	Fall	Yes
Twister	Yes	White	Midseason	Fall	Yes

Tomato Varieties

Market Tomatoes – Globe Tomatoes

Variety	Color	Season	Culture	Use	Disease Resistance	Plant Habit
Carrie	Red	Mid	Field	DM, LW	V, F, Asc, Tswv, Tylc	D
Carole	Red	Mid	Field, High Tunnel	DM, LW	F, Lb, N, TomvV, V	I
Patsy	Red	Mid	Field	DM, LW S	F, V, TSWV, Tylc	D
Rambler	Red	Early	Field	DM, LW, S	V, F, Asc, Tswv, GlS	D
Roadster	Red	Early	Field	DM, LW, S	V, F, Asc, Tswv	D
Thunderbird	Red	Mid	Field	DM, LW, S	Asc, F, V, GlS, Tylc	D

Other Corrections

Tomatoes Plant Tissue Testing N 2.8-4.0% (*page 413*)

Chapter F. Weed Management

Pesticide labels can be changed without notice. Users must find and read a current label before applications are made. The following updates on 24c labels, crops, and pre-packaged herbicides do not substitute for reading the approved label.

24c Labels

24c labels (also called state labels or special local needs [SLN]) are granted by individual states and are only allowed for the specific states that have received these labels.

Halex GT has a 24c label for DE only, allowing processing lima bean to be planted 10 months after application.

Command 3ME has a 24c label for lima bean in DE, MD, NJ, and VA. This label also allows lima bean to be planted 60 days following an application in a previous crop (i.e., processing peas), assuming the rate was not above 12 fl oz.

Crop Specific Weed Management Updates

Various Vegetable Crops

Shadow 3EC (clethodim) is labeled for use on various vegetable crops (see table below). Do not exceed 21.33 fl oz/A per season

Shadow 3 EC Rate (per Application) and Preharvest Interval (PHI)

Crop	Rate	PHI (d)
Asparagus	4 – 5.3 fl oz/A	1
Snap/lima bean, Potato, Sweet Potato	4 – 10.7 fl oz/A	30
Beets (Garden), Carrot, Celery, Cole crops (broccoli, Brussels sprout, cabbage, cauliflower, collards, kale, kohlrabi, mustard greens), Endive, Lettuce, Parsley, Spinach, Root Vegetables (horseradish, parsnip, turnip)	4 – 5.3 fl oz/A	30
Cucurbits (cucumber, cantaloupe, pumpkin, squash, watermelon)	4 – 5.3 fl oz/A	14
Fruiting vegetables (eggplant, peppers, tomato)	4 – 5.3 fl oz/A	20
Garlic, Onion (bulb)	4 – 5.3 fl oz/A	45
Leek, Onion (green)	4 – 5.3 fl oz/A	14
Pea (succulent shelled)	4 – 5.3 fl oz/A	21
Radish	4 – 5.3 fl oz/A	15
Strawberry	4 – 5.3 fl oz/A	4

Asparagus

Chateau EZ replaces Chateau WDG

Dual Magnum 24c label for use in DE has been extended until 9/20/2026; NJ has been renewed until 1/28/2027

Beans, Lima

Spartan Charge 24c label for use in DE on lima bean has been renewed until 12/31/2026

Dual Magnum 24c label for use in DE on lima bean as a postemergence application to extend residual control of grasses and pigweed species. Dual Magnum will not control any weeds that are emerged; emerged weeds should be removed with a herbicide application or cultivation.

If a preplant or preemergence application of Dual Magnum was made to the crop, a postemergence application may be applied provided the total amount of Dual Magnum does not exceed 2.0 pt/A.

Apply Dual Magnum postemergence only after the first trifoliate stage of the bean plant; earlier applications

may result in unacceptable crop injury. When Dual Magnum is applied over the top of lima bean, leaf spotting or speckling may be observed.

Command 24c label for use in NJ expired in 2022; renewal is pending.

Carrots

Dual Magnum 24c label for use in NJ has been renewed until 1/28/2027

Cole Crops

GoalTender 24c label for use in DE, NJ, and PA extends until at least 12/31/2023; includes postemergence applications to broccoli, cabbage, and cauliflower

Dual Magnum 24c for cabbage use in NJ has been renewed until 1/28/2027

Garlic

Chateau EZ replaces Chateau WDG

Leeks

Dual Magnum 24c label for use in NJ has been renewed until 1/28/2027

Zidua SC has been labeled as a postemergence application to extend residual control. Not labeled for coarse-textured soils

Onions

Dual Magnum 24c label for use in NJ has been renewed until 1/28/2027

Dual Magnum 24c label for use in PA expires on April 28, 2023; renewal is pending

Zidua SC has been included in the full label and does not have an expiration date

Peppers

Dual Magnum 24c label for use in NJ has been renewed until 1/28/2027

Dual Magnum 24c label for use in PA expires on April 28, 2023; renewal is pending

Potatoes

Chateau EZ replaces Chateau WDG.

Spinach

Dual Magnum 24c label for use in NJ has been renewed until 1/28/2027

Dual Magnum 24c label for use in PA expires on April 28, 2023; renewal is pending

Summer Squash

Reflex 24c label for use in NJ expired in 2022; renewal is pending

Tomato

Authority MTZ and Preview 2.1 are two prepackaged mixtures of sulfentrazone plus metribuzin, labeled for transplanted processing tomatoes only; **preplant application only**. Ratio of metribuzin and sulfentrazone differ for these two products, see table below. Local research has shown potential injury with sulfentrazone. These rates of sulfentrazone will not provide extended residual control.

Reglone 24c label (NJ only) has been extended until 12/31/2025. Use in tomatoes for row middle weed control and desiccation

Reflex 24c label for use in NJ expired in 2022; renewal is pending

Watermelon

Reflex 24c label for use in NJ expired in 2022; renewal is pending

Pre-Packaged Herbicides Recently Released for Various Vegetable Crops

Trade Name	If You Apply (per acre)	Applied (ai per acre)	Equivalent to a Tank Mixture of These Products (per acre)
Authority MTZ 45DF	8 oz	0.13 lb metribuzin 0.09 lb sulfentrazone	2.8 oz metribuzin 75DF 3.3 fl oz Spartan Charge 3.5EC
Boundary 6.5L	2 pt	1.24 lb S-metolachlor 0.314 lb metribuzin	1.3 pt Dual Magnum 7.26EC 10 fl oz metribuzin 4L
Calibra 3.1ZC	2.4 qt	0.168 lb mesotrione 1.67 lb S-metolachlor	5.36 fl oz Callisto 4SC 1.7 pt Dual II Magnum 7.64 EC
Coyote 3.67SC	2 qt	0.168 lb mesotrione 1.67 lb S-metolachlor	5.36 fl oz Callisto 4SC 1.75 pt Dual II Magnum 7.64 EC
Empyros 3.82E	1.4 qt	0.035 lb tolpyralate 1.3 lb S-metolachlor	1.3 fl oz Shieldex 3.3SC 1.3 pt Dual II Magnum 7.64 EC
Moccasin MTZ 52DF	3 pt	1.25 lb S-metolachlor 0.419 lb metribuzin	1.3 pt Dual Magnum 7.26EC 13.4 fl oz metribuzin 4L
Preview 2.1 3.35SC	10 fl oz	0.17 lb metribuzin 0.09 lb sulfentrazone	5.4 fl oz metribuzin 4L 3.3 fl oz Spartan Charge 3.5EC
Restraint 6.5EC	30 fl oz	0.02 lb tolpyralate 1.5 lb acetochlor	0.85 fl oz Shieldex 3.3SC 1.7 pt Harness 7E

Chapter F. Insect Management

1. A new liquid formulation of Assail is now available, Assail 30SC.
2. Please note in the following correction to the **sweet corn** aphid control section that Assail 30G and 30SC are the only 4A neonicotinoids labeled.
3. **Tomatoes:** please be aware that russet mites are an occasional tomato pest, particularly of greenhouse and high tunnel production. We will be adding them in the next guide edition.
4. **Cole Crops:** If you have experienced resistance issues with diamondback moth, be aware that Dibrom 8 EC (naled) is labeled at 1 pt/a, 1 d PHI, 48 h REI. Please note that it is highly toxic and very disruptive to biological control agents.
5. **Cole Crops:** In addition to swede midge, Senstar is labeled also for whitefly.
6. **Sweet Corn, Potatoes, Sweet Potatoes:** Nurizma (broflanilide) is now labeled for in-furrow application targeting rootworms, seedcorn maggot, white grubs, and wireworms. This represents a brand new IRAC mode of action group.

RUTGERS

New Jersey Agricultural
Experiment Station
COOPERATIVE EXTENSION
CUMBERLAND COUNTY

HAVE YOU SIGNED UP FOR **PLANT & PEST** **ADVISORY** UPDATES YET?

PLANT & PEST ADVISORY

A RUTGERS COOPERATIVE EXTENSION PUBLICATION

Scan
me
→



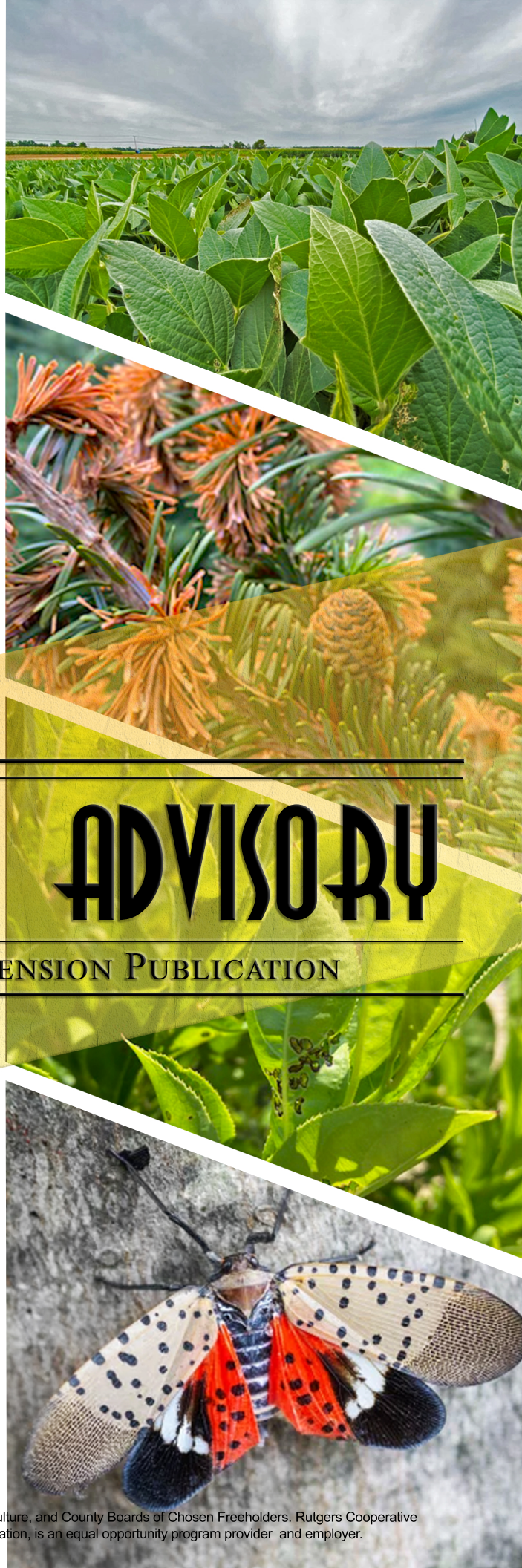
[HTTPS://GO.RUTGERS.EDU/TEK8NZC](https://go.rutgers.edu/tek8nzc)

CONTACT: DR. TIMOTHY WALLER

(856) 451-2800 x2 TWALLER@NJAES.RUTGERS.EDU

WE **R** HERE WHEN YOU NEED US

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



PLANT & PEST ADVISORY

Rutgers Cooperative Extension

NEW EDITION – SIGN UP NOW

Christmas Trees Edition

[EMAIL](#) | [RSS](#)

Seasonal pest alerts and news about insects, diseases, and weeds impacting **Christmas Tree** production including Commercial Ag Updates (meetings and marketing); and Pesticide Program updates from the [Rutgers Pest Management Office News Blog](#).
Companion Website Links:

➤ [Rutgers Weather Forecasting](#) - Meteorological Information important to commercial agriculture.

Christmas Tree Edition – Plant and Pest Advisory (+ *Nursery Conifers*)



Sign up here

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

OR

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





February 2023

Launch of Offshore Wind Energy Collaborative and Symposium



Margaret Brennan-Tonetta at the Rutgers Offshore Wind Energy Symposium.

NJAES Senior Associate Director **Margaret Brennan-Tonetta**, director of the Office of Resource and Economic Development, launched the [Rutgers Offshore Wind Energy Collaborative](#), along with co-founders **Josh Kohut** (Marine and Coastal Sciences) and **Wade Trappe** (School of Engineering). Their goal is to build expertise in offshore wind energy across the university and to encourage knowledge-sharing needed to foster the growth of a wind-based economy in New Jersey. The collaborative, which secured a two-year, \$125,000 grant from the New Jersey Economic Development Authority (NJEDA), hosted the first [Rutgers Offshore Wind Energy Symposium](#) on Jan. 12. The symposium brought together more than 140 attendees from academia, industry, government, and the nonprofit sectors to

discuss challenges and opportunities, as well as build community engagement in offshore wind energy. A summary report based on information gathered from the symposium will be prepared and used to inform Rutgers research, teaching, and outreach and by NJEDA to develop recommendations that catalyze the offshore wind energy sector. The NJEDA also provided a \$282,000 grant to Rutgers to create the [New Jersey Wind Institute Fellowship Program](#) to support student research in topics that further the growth of the offshore wind energy sector in New Jersey.

Produce Safety Handbook for Buyers Offers Increased Access to Growers

Wesley Kline, agricultural agent, RCE of Cumberland County, was a facilitator at the Northeast Center for Advanced Food Safety (NECAFS) meeting in Hartford, CT, January 17-19. NECAFS was awarded a grant from the Food Safety Outreach Program at USDA-National Institute of Food and Agriculture to develop the Produce Safety Handbook for Buyers, an online wholesale buyers guide produced by the University of Vermont and Rutgers. The handbook summarizes the produce food safety landscape in the northeastern U.S. in an effort to improve access for buyers to connect with growers who meet minimum food safety standards. Buyers will better understand and navigate the produce safety audit procedures and inspection information of each state. The website also provides farm production statistics, state inspection, and audit information in simple charts and tables, all with the goal of improving produce safety knowledge, communication, and alignment among buyers and producers.

Training for Directors of County Boards of Agriculture

Agricultural agents with Rutgers Cooperative Extension (RCE) help to provide education and technical assistance for agricultural leadership organizations throughout New Jersey, regionally and nationally. On January 3, **Michelle Infante-Casella**, agricultural agent and county extension department head, RCE

of Gloucester County, worked with New Jersey Farm Bureau (NJFB) to train directors of County Boards of Agriculture on the duties and responsibilities of being a director on a board. NJFB Director Peter Furey and NJFB President Allen Carter hosted the event that drew 42 participants. Information covered in the presentation by Infante-Casella is outlined in NJAES fact sheet, "[FS1250: Guidance for Directors and Leaders of Agricultural Organizations in New Jersey](#)," which is co-authored by Brian Schilling, director of Rutgers Cooperative Extension. The recording of the training session is archived on the NJFB YouTube channel at [\(640\) NJFB County Board of Agriculture Training - January 3, 2023 - YouTube](#).

Of Interest

Members of the **Rutgers On-farm Food Safety Team** participated in the 2022 National Produce Safety Consortium meeting held in Phoenix, Arizona, December 14-16. This is an annual meeting where the Food and Drug Administration, United States Department of Agriculture, the National Association of State Departments of Agriculture (NASDA), state inspectors, and Extension personnel involved in on-farm food safety meet to review projects and exchange ideas for the following year. **Meredith Melendez** represented the team this year and led a workshop on differentiating between a hazard and a risk in a produce operation. **Wesley Kline** and Melendez serve on the On-Farm Readiness Review development team for NASDA. The team developed a national curriculum to train state inspectors and Extension personnel on how to carry out farm reviews related to the Food Safety Modernization Produce Safety Rule.

In the News

A timeline of the Jersey tomato, noting NJAES' release of the **Rutgers tomato** in 1934 and its 2016 release of the **Rutgers 250**, an improved version of the 1934 original.

[New Jersey Monthly: How the beloved Jersey tomato came to be.](#)

U.S. Department of Energy is scaling up the emerging field of "agrivoltaics" and seeking innovations in both solar technology and farming techniques that can produce clean energy and food at the same time, on the same plot of land. **Ethan Schoolman**, assistant professor in the Department of Human Ecology, discusses the Rutgers-led research and demonstration project that involves agrivoltaic installations at three NJAES farms.

[Bloomberg Law: U.S. seeks perfect "Reese's Cup" mix of farming and solar panels.](#)

Events

Online Gardening Education Series is available to home gardeners from February 9 to May 25. [The 16-week session](#) will cover topics like botany, soils, entomology, IPM, plant pathology, trees and shrubs, pruning, turf, weeds, vegetable production, small fruit, tree fruit, composting, and herbaceous plants. The series is hosted by multiple RCE offices and sessions will be taught by Rutgers faculty and staff in the Department of Agriculture and Natural Resources and other units.

Food Safety Training for Blueberry Growers on March 15 at the Rutgers Philip E. Marucci Center for Blueberry and Cranberry Research, 125a Lake Oswego, Chatsworth, NJ. Deadline to [register is March 8](#). For more information, contact Brandi at (856) 451-2800 x 1 or brandiwi@co.cumberland.nj.us.

Rutgers New Jersey Agricultural Experiment Station is an equal opportunity program provider and employer.

RUTGERS

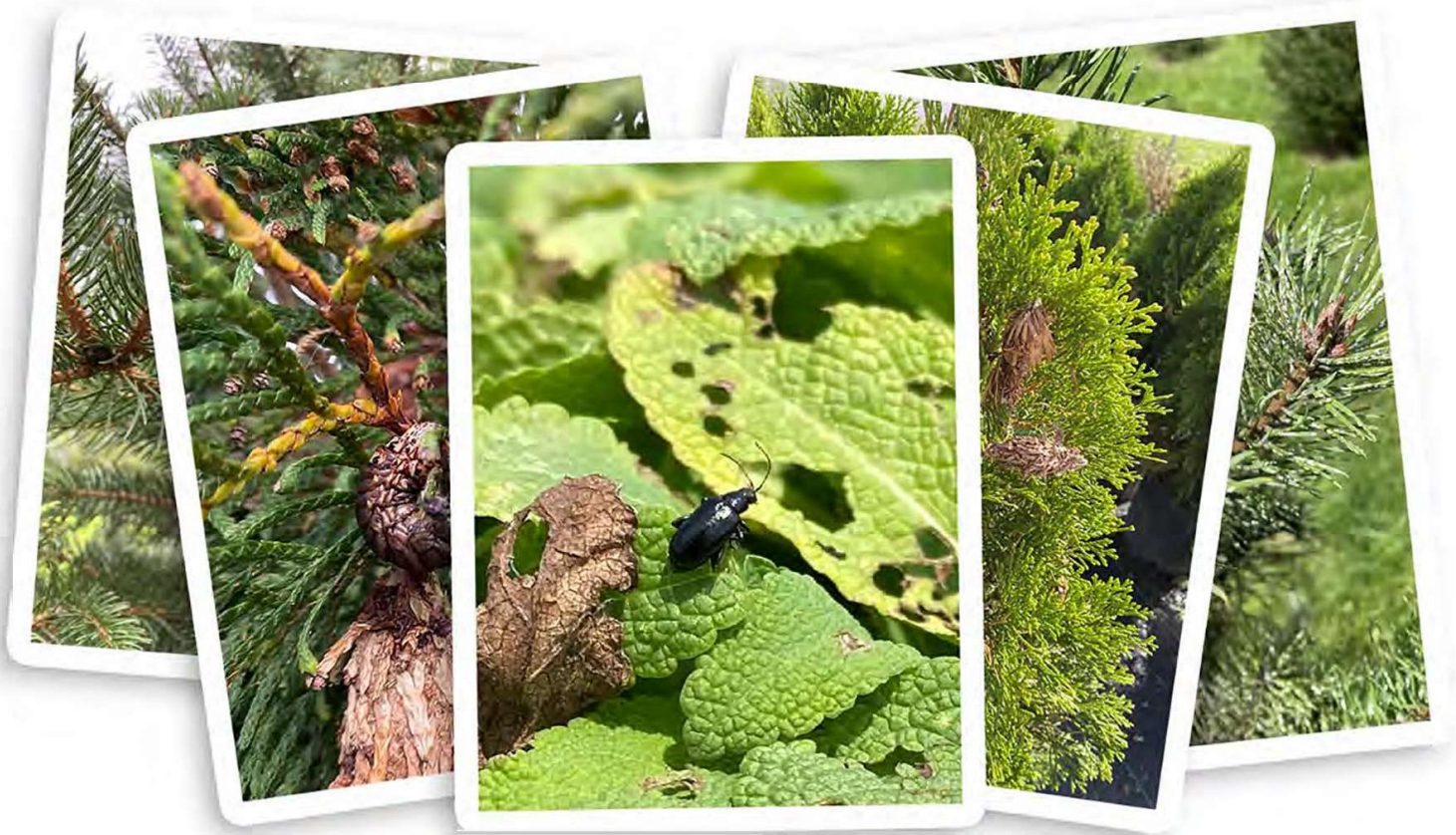
New Jersey Agricultural
Experiment Station

Online version >



Beta-version 2023
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



WE **R** HERE WHEN YOU NEED US

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 2/22/2023

CODE	Location	22-Feb	1-Mar	1-Apr	1-May	1-Jun
NJ50	Upper Deerfield (NJ50)	27	33	33	131	541
D4116	Bridgeton	34	39	39	137	548
KMIV	Millville Airport	27	34	34	113	489
NJ05	Greenwich	31	36	36	138	550

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