

# Cultivating Cumberland

March - 2019 VOL. 24, ISSUE 3

## Inside this issue:

Romaine Lettuce Recall Meeting	1
US Biostimulants Summit	2
3-Day HACCP Plan Development Course	3
Vegetable Grafting Manual	4
Spring Field Day	4
USDA to Measure Cash Rent Rates	5
New Rutgers Fact Sheets	5
SJ Tree Fruit Meeting	6
Pesticide Container Recycling Program	7
Central NJ Turf and Ornamental Institute	8
Rain Barrels & Water Conservation for the Home	8
Calendar	9-10
Regularly Scheduled Meetings	11
Website Information	12

### Attachments

- Central Jersey Turf & Ornamental Institute Agenda
- Spring Back-2-Basics Classes
- FSMA Grower Training and Third Party Audits
- Eastern PA Potato Day

## Romaine Lettuce Recall Meeting

Wes Kline

A meeting was held on February 15, 2019 to discuss what happened with the romaine outbreaks in the spring and fall of 2018. Growers in Southern New Jersey had economic losses from outbreaks traced to production in Yuma Arizona and Salinas California. Growers want to know why it takes so long for the Food and Drug Administration (FDA) or the Center for Disease Control and Prevention (CDC) to figure out where the outbreak originated and to let the public know that it was confined to a specific area. It takes approximately 45 days from the time an outbreak is identified until it is traced back to the source. This involves interviews with individuals who were ill, sampling of product if available, soil samples, interviews with growers, etc. It is not a rapid process. The process is getting faster with whole genome sequencing, but it still takes more time than we would like.

The role of the FDA and CDC is to protect public health and safety. Which means their first responsibility is to notify the public if there is an outbreak. This may take the form of an advisory not to consume a product or a full recall. It does not matter to a grower since it will have the same impact. No one is going to purchase the product even if it was not involved in the advisory. The other issue is the 24/7 news cycle. Cable news is very quick to pick up on an outbreak, but not good at publishing when it is over or if the specific affected area is mentioned.

The New Jersey Department of Agriculture (NJDA) can only do so much since this is a national issue. There were suggestions from growers and processors that NJDA or the federal agencies should consider as we move forward. Among those were:

- Have Public Service Announcements ready to run when there is a reported outbreak
- Expand NJDA's presence on social media now before an outbreak
- Tag romaine with a New Jersey produced or Jersey fresh label
- FDA should distinguish between whole head and cut product during an outbreak
- FDA should localize advisories as much as possible
- NJDA should have a mailing list/list serve for recall contacts (growers, buyers, etc.) to provide updated information
- There needs to be faster responses from FDA/CDC
- Tag Jersey Fresh Growers with food safety audit on their website
- More money is needed for the Jersey Fresh program and increased enforcement to protect the label
- Explore the possibility of crop insurance for food safety outbreaks
- Templates for growers that can be used to communicate with their customers during an outbreak
- NJDA should have a set of tailored messages for individual commodities that are ready to go when an outbreak is reported
- Charge buyers for the use of the Jersey Fresh label and advertising and charge more to use Jersey Fresh materials
- Develop public relations information on farm practices that could be sent out to educate and reassure the public before an outbreak
- NJDA needs to refine their recall procedures and communicate it to growers

What we must understand is there will be more outbreaks and it will impact our industry to some extent. We must work together to be prepared for when those events happen.

## **US Biostimulants Summit 2019**

St. Louis, MO

May 1st and 2nd, 2019

The conference will bring together leading executives and experts from across the entire value chain (producers of biostimulant and plant nutrient products, farmers and agriculture suppliers, technology providers, research institutes and government representatives) for two days of informative presentations, interactive discussion, and excellent networking opportunities.

Please see the key topics in the most updated agenda here: <https://www.wplgroup.com/aci/cbsn2-agenda-mkt/>

### Confirmed Speakers:

Bonnie Ownley, Professor, Research Plant Pathologist, University of Tennessee

Bruce Caldwell, CEO, 3Bar Biologics, Inc.

Caitlin Aleman, Executive Officer/Marketing, Bio-Gro, Inc.

Carlos Lazcano, Director of R&D, J&D Produce

David Beaudreau, Executive Director, Biostimulant Coalition

Dr Amit Vasavada, Vice President, R&D, Marrone Bio Innovations

Dr Jessy Labbe, Staff Researcher, Oak Ridge National Laboratory

Ed Thomas, Director of Regulatory Affairs, The Fertilizer Institute

Glen Crowe, Director of Sales, Pathway Biologic, LLC

James White, Professor of Plant Pathology, Rutgers University

John Bailey, National Product Manager, Timac Agro USA

Ken Day, VP Agronomy, FBSciences

Kuide Qin, Chief Science Officer, Verdesian Life Sciences

Maud Hinchee, Chief Science Officer, Agricen

Michael Warren, CEO, Earth Alive Clean Technologies

Mylavarapu Venkatramesh, Chief Technology Officer, Agrinos, Inc.

Peter Baas, Director of R&D, Growcentia

Rob Jarek, Technical Research Agronomy Manager, Stoller USA

Ron Taylor, VP for Marketing, Acadian Plant Health

Terry Tindall, Director of Agronomy, J.R. Simplot Company

Vatren Jurin, Senior Business Development Analyst, Sales Plant Nutrition, Compass Minerals

If you have any questions, do not hesitate to contact Rafael at [Rafael@acieu.net](mailto:Rafael@acieu.net)



# RUTGERS

Food Recalls Can Be Costly and Dangerous!

## **3-Day HACCP Plan Development Course**

Learn How to Protect Your Food Products & Reputation

### HACCP Plan Development for Food Processors An International HACCP Alliance Approved Course

Planning, controlling, and documenting the safe production of foods can help your facility avoid the cost and liability associated with contamination and earn a reputation for safety. In this 3-day HACCP course, you will learn about:

- Hazard Analysis
- Proper Flow Charting
- Control Points and Critical Control Points (CCPs)
- Critical Limits
- Monitoring Procedures
- Corrective Actions
- Verification and Validation Procedures
- Recordkeeping/Documentation
- And more!

<b>Course Name:</b>	HACCP Plan Development for Food Processors (LF0403CB19)
<b>Date/Time:</b>	March 26-28, 2019 from 9:00am to 4:30pm
<b>Location:</b>	Rutgers University Inn & Conference Center 178 Ryders Lane, New Brunswick, NJ 08901
<b>Cost:</b>	\$795 per person before March 12, 2019; \$895 after
<b>Meals:</b>	Continental breakfast and deli lunch buffet are included

In a small group, you will review real-world HACCP documents and work together to create your own HACCP plan. Take control of potential safety hazards.

For more information or to register go to <https://ce-catalog.rutgers.edu/coursedisplay.cfm?schID=73374>

## **Vegetable Grafting Manual**

Wes Kline

Grafting of vegetable seedlings is a unique horticultural technology used worldwide to overcome soil-borne diseases and pests, and/or to increase plant vigor under various environmental stress conditions such as salinity, drought, flooding and low temperature. A comprehensive manual on grafting vegetables has been developed collaboratively by research scientists at various institutions working to explore this technology, and is available on-line:

<http://www.vegetablegrafting.org/resources/grafting-manual/>

The manual covers major aspects of producing grafted vegetable plants, particularly tomato, eggplant, pepper, watermelon, and melon, emphasizing research-based information and approaches proven by experience to be reliable. Contents include a history of vegetable grafting, crop specific grafting methods, automation and controlled environment technologies, logistics and workflow in the nursery, and analysis of cost factors. The format is structured as a "living document" that will be updated as improvements become available. Readers can check periodically for new information.

---

## **Spring Field Day**

Sports Field Managers Association of New Jersey

Wednesday, April 17, 2019

Rutgers University Athletic Facilities, 1 Scarlet Knights Way, Piscataway, NJ

\$25; No charge for members or students

In addition to our Trade Show, Demos and Education, we will enjoy a tour of Rutgers Football Practice Fields, High Point Stadium and Yurak Field, led by Matt Henn, Rutgers University Athletics.

Our presenters will be highly respected professionals in their fields. They will present topics important to anyone who maintains sports fields. Topics include cultural management of turfgrass diseases and weeds on school and municipal grounds. Credits will be awarded. Breakfast and lunch provided. Take a chance on our 50/50 drawing and door prizes!

For more information details go to:

<http://events.r20.constantcontact.com/register/event?llr=zidt7zcab&oeidk=a07eg3hkpvs2e0beef6>

## **USDA to Measure Cash Rent Rates**

HARRISBURG, PA – Beginning in February, the U.S. Department of Agriculture’s National Agricultural Statistics Service will contact farmers and ranchers to gather land rental rate information for the *Cash Rents and Leases* survey. The results of this survey will serve as a valuable decision-making tool for farmers, ranchers and other landowners and will help shape negotiations for 2019 rental agreements.

“This brief survey is our only source of county cash rental rates,” said King Whetstone, director of the NASS Northeastern Regional Field Office. “By responding, producers help the farming community and ensure USDA bases its decisions on the most accurate data.” NASS will publish average cash rental rates at National, State and county levels for non-irrigated cropland, irrigated cropland, and pastureland on September 10, 2019.

More than 15,000 farmers will receive the survey forms. NASS offers the option of responding online via a secure Internet connection. Later in 2019, NASS representatives will begin calling and visiting landowners who have not yet responded.

“We guarantee confidentiality of all individual information, regardless of the response method participants choose, as required by federal law,” Whetstone said. “NASS will combine your responses with your fellow producers nationwide, providing the only accurate and comprehensive estimate of U.S. average rent and lease rates.”

For more information about the *Cash Rents and Leases* survey, call the NASS Northeastern Regional Field Office at (717) 787-3904. All NASS reports and data are available online at [www.nass.usda.gov](http://www.nass.usda.gov).

---

## **New Rutgers Fact Sheet**

The following fact sheet is now available from Rutgers:

FS1300      Five New Peach and Nectarine Varieties for New Jersey  
Commercial and Home Orchardists.

Gohil, H., Goffreda, J., and Ward, D.

Go to: <https://njaes.rutgers.edu/fs1300>

FS1098      Bed Bugs  
Wang, C.

Go to: [njaes.rutgers.edu/fs1098](http://njaes.rutgers.edu/fs1098)

FS1101      Carpenter Ants and Their Control  
Wang, C.

Go to: [njaes.rutgers.edu/fs1101](http://njaes.rutgers.edu/fs1101)

## **South Jersey Tree Fruit Meeting**

**Date:** March 6, 2019 @ 8:00 am – 3:00 pm

**Location:** RAREC, 121 Northville Road, Bridgeton, NJ 08302

**Registration:** Required, by February 28<sup>th</sup> Contact: Karen Holton (holton@njaes.rutgers.edu), (856) 455-3100 x4104

**Cost / person:** \$15.00 (Checks preferred, made out to Rutgers University), lunch included.

**Pesticide Credits:** Core (2); 1A (07); 3A (07); 3B (01); & PP2 (07) (Applied)

### **PROGRAM**

**8:00 am Registration**

*Coffee and pastries*

**8:25 am Welcome and Opening Remarks and update.**

*Hemant Gohil, Agriculture Agent, Rutgers Co-op. Extension, Gloucester County*

**8:30 am A Year that was – Environmental Stress effects on Peach Development.**

*Daniel Ward, Extension Specialist in Pomology, Rutgers NJAES.*

**9:00 am Key Pest Issues in 2018, and Possible Reasons.**

*Dave Schmitt, Fruit IPM Program Associate, Rutgers NJAES*

**9:15 am Peach Brown Rot: Improving Disease Control and Fungicide Resistance Mgmt.**

*Norm Lalancette, Extension Specialist in Tree Fruit Pathology, Rutgers NJAES*

**10:00 am Break – Coffee and pastries**

**10:15 am IPM tactics and beneficial insects in tree fruit.**

*Anne Nielsen, Extension Specialist in Tree Fruit Entomology, Rutgers NJAES*

**10:45 am Dealing With Spotted Wing Drosophila and Scale Pests.**

*Dean Polk, Statewide Fruit IPM Agent, Rutgers Cooperative Extension*

**11:15 am Plum curculio biology and management.**

*Clement Akotsen, Post-doc Research Associate, Rutgers NJAES*

**11:45 am Industry Updates and NJ Peach Promotion Council Updates.**

**12:00 pm Lunch**

**1:00 pm How Herbicide Resistance affects Weed Managing in Tree Fruit Production.**

*Thierry Besancon, Extension Specialist in Weed Science, Rutgers NJAES*

**1:30 pm Pesticide Storage and Spills: Managing Risk.**

*Pat Hastings, Pesticide Safety Education Program Coordinator, Rutgers NJAES*

**2:00 pm Overview of Managing Orchard Soil Health.**

*Megan Muehlbauer, Agriculture Agent, Rutgers Co-op. Extension, Hunterdon Co.*

**2:30 pm Fruit Quality and Post-harvest Evaluations of New Peach Varieties.**

*Hemant Gohil, Agriculture Agent, Rutgers Co-op. Extension, Gloucester County*

**3:00 pm Open Session – Grower Questions and Discussion.**

**Pesticide Container Recycling Program 2019**

**Helena Chemical**

66 Route 206 (North of the Route 30/206 intersection)  
Hammonton, New Jersey  
Friday, May 3  
9:00 am to 12:00 pm (Noon)

**Future collections at this site:**

Friday, June 7  
Friday, July 5 – NJDA Staffed  
Friday, August 2  
Friday, September 6  
Friday, October 4 – NJDA Staffed

**Helena Chemical**

440 N. Main St.  
Woodstown, New Jersey  
Friday, May 10  
9:00 a.m. to 12:00 p.m. (Noon)  
**Future collections at this site:**  
Friday, June 14  
Friday, July 12 – NJDA Staffed  
Friday, August 9  
Friday, September 13  
Friday, October 11 – NJDA Staffed

**Allied Recycling Incorporated**

2658 Route 206  
Mount Holly, NJ 08060  
609-267-8923  
Fax – 609-267-3329  
Web – [alliedrecyclingnj.com](http://alliedrecyclingnj.com)  
Email – [info@alliedrecyclingnj.com](mailto:info@alliedrecyclingnj.com)  
For Your Convenience Plastics Drop Off Hours:  
Monday – Friday 6:00 am - 5:00 pm  
Saturday – 7am - 3:45pm

## Central NJ Turf and Ornamental Institute

Wednesday, March 20, 2019

Battleground Country Club, 40 Millhurst Road, Manalapan, NJ 07726

This is an excellent opportunity for landscapers and nursery growers to receive valuable training and needed pesticide credits. The training is open to everyone but primarily serves Extension clientele in Middlesex, Monmouth, Mercer, Ocean, Burlington, and Somerset counties. Master Gardeners are welcome to attend and standard registration fees apply for all participants.

### **Available Pesticide Credits:**

Core	3 units
1A	9 units
2	4 units
3A	4 units
3B	4 units
6B	9 units
8C	6 units
9	1 unit
10	1 unit
PP2	9 units

### **ProFACT NJ Certified Fertilizer Applicator - 2 credits**

For more information please visit <http://www.cpe.rutgers.edu/CJTOI/> or call 732-398-5262 or call 732-398-5262

Please see the attachment to this newsletter for the complete agenda.

## Rain Barrels & Water Conservation for the Home

Rutgers Cooperative Extension of Cape May County

355 Court House South Dennis Road, Cape May Court House, NJ 08210

Presenter: Kristen Andrada, AmeriCorps New Jersey Watershed Ambassador

Participants will learn:

- Why we should use rain barrels
- How to build a rain barrel
- How to maintain a rain barrel

Light supper will be served at 5:30 p.m., program starts at 6 p.m. at the Rutgers Cooperative Extension Office. The hands-on portion of the program will follow in the Lockwood Center, just across the parking lot.

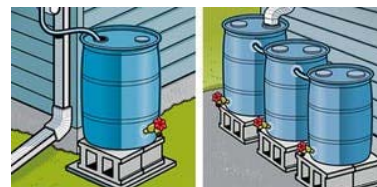
\*\*\*\*\*Beginners Class, no prior experience required\*\*\*\*\*

To build & take home 1 rain barrel: \$50 limited to 20 tickets.

To attend workshop without barrel: \$15, limited to 10 tickets.

Register at <http://RU-CMC-ANR.eventbrite.com> by March 14, 2019

For information, call 609-465-5115, ext. 3607





### Calendar of Important Events

\* Indicates a newly added event since the last calendar

#### March 2019

##### **March 4**

**Spotted Lanternfly Basics Webinar - "For Christmas Tree Growers"**. 10 a.m. - Registration link: [https://cornell.zoom.us/webinar/register/WN\\_7eehVeBvSBOgM3aTXOtaew](https://cornell.zoom.us/webinar/register/WN_7eehVeBvSBOgM3aTXOtaew)

##### **March 4**

**Spotted Lanternfly Basics Webinar- "For Nursery, Greenhouse, & Landscape Industries"**. 1 pm- Registration link: [https://cornell.zoom.us/webinar/register/WN\\_u5mYQOHMSESWFcNoftt2Nw](https://cornell.zoom.us/webinar/register/WN_u5mYQOHMSESWFcNoftt2Nw)

##### **March 5-6**

**2019 NYS Farmers Market Manager's Conference**, Queensbury Hotel, Glens Falls, NY. For more information call 315-400-1447.

##### **\*March 6**

**South Jersey Tree Fruit Meeting**; RAREC, 121 Northville Road, Bridgeton, NJ 08302; Cost \$15; Lunch included; Pesticide credits available; Contact Karen Holton at 856-455-3100 ext 4104 or Holton@njaes.rutgers.edu

##### **March 12-13**

**FSMA Produce Safety Rule Training and Third Party Audits**; Cooperative Extension of Cumberland County, 291 Morton Avenue, Millville, NJ; Day 1 \$50 and day 2 (optional) \$25; 9:00 am-4 pm; Lunch included; This training meets the FDA requirements for FSMA Produce Rule Training; Register online at <https://www.eventbrite.com/o/rutgers-cooperative-extension-14509694831>

##### **March 14-15**

**Practical Food Microbiology Course**: University Inn & Conference Center, 178 Ryders Lane, New Brunswick, NJ. 9 am—8:30 pm; Check in at 8:30 am; \$875 ; For information or to register go to <https://ce-catalog.rutgers.edu/coursedisplay.cfm?schID=68869>

##### **\*March 20**

**Central Jersey Turf and Ornamental Institute**; This is an excellent opportunity for landscapers and nursery growers to receive valuable training and needed pesticide credits;

##### **March 26-28**

**HACCP Plan Development for Food Processors**, University Inn & Conference Center, 178 Ryders Lane, New Brunswick, NJ; 9am—4:30 pm; \$795 by 3/12; \$895 after. Go to <http://www.cpe.rutgers.edu/courses/current/lf0403cb.html> to register or call Maureen O'Connell 848-932-7703 with additional questions.

##### **March 28**

**CORE Basic Pesticide Training Programs**; Extension Conf. Center, 18 Ag Extension Way, New Brunswick, NJ 08901; \$145; 12:30 p.m.-4:30 p.m.; Bilingual; This course satisfies New Jersey's requirement of attending a basic pesticide training course for new applicants; 6 CORE units toward recertification; Register online at <http://www.cpe.rutgers.edu/courses/current/ae0801cg.html>

**April 2019****April 3-23**

**GAPs Online Produce Safety Course**, This course will not result in your farm being "GAPs Certified". For more information contact Don Stoeckel: [dstoeckel@cornell.edu](mailto:dstoeckel@cornell.edu)

**April 17**

**Sports Field Mgrs Assoc. of New Jersey Spring Field Day**, Save the date! 7:30 am-2:30 pm  
Watch for registration information coming soon.

**April 18**

**CORE Basic Pesticide Training Programs**; Extension Conference Center, 18 Ag Extension Way, New Brunswick, NJ 08901; \$145; 12:30 p.m.-4:30 p.m.; This course satisfies New Jersey's requirement of attending a basic pesticide training course for new applicants; 6 CORE units toward re-certification; Register online at <http://www.cpe.rutgers.edu/courses/current/ae0801ch.html>

**May 2019****May 1-21**

**GAPs Online Produce Safety Course**, This course will not result in your farm being "GAPs Certified". For more information contact Don Stoeckel: [dstoeckel@cornell.edu](mailto:dstoeckel@cornell.edu)

## REGULARLY SCHEDULED MEETINGS

✓ Indicates meeting will be held at RCE of Cumberland County

<p>✓</p> <p><b>Pesticide Certification Exam Schedule—Cumberland County</b> 291 Morton Avenue Millville, NJ 08332 (Between Rosenhayn &amp; Carmel)</p> <p style="text-align: center;"><u>2019</u></p> <p>Mar 19      Apr 17      May 15 Sept 18      Oct 16</p> <p><b>To Register call 609-984-6614 For directions call 856-451-2800</b> *****</p>	<p><b>Cumberland County Agriculture Development Board</b> County Administration Bldg. Freeholder Room 164 W. Broad Street Bridgeton, NJ 08332</p> <p style="text-align: center;"><u>2019</u></p> <p>Mar 12      Apr 9      May 14 June 11      July 9      Aug 13 Sept 10      Oct 8      Nov 12 Dec 10</p> <p><b>Reg. Meetings start at 7 p.m. Information call 856-453-2211</b> *****</p>	<p>✓</p> <p><b>Cumberland County Board Of Agriculture</b> 291 Morton Avenue Millville, NJ 08332 (Between Rosenhayn &amp; Carmel) 7 pm meetings</p> <p style="text-align: center;"><u>2019</u></p> <p>Mar 21      Apr 18      May 16 Sept 19      Oct 17      Nov 21 Dec 19</p> <p><b>For info call Lew DePietro, President at 856-981-9843</b> *****</p>
---	---	--

**Cumberland County Improvement Authority (CCIA)  
Pesticide Container Recycling**  
9:00 a.m. to 12 Noon  
Cumberland County Solid Waste Complex  
169 Jesse's Bridge Rd. (located off Route 55 Exit 29)  
Deerfield Township, New Jersey

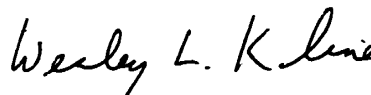
Questions? Call Division of Ag & Natural Resources, NJ Dept. of Ag 609-292-2242

Program in Cumberland County suspended until further notice.

Sincerely,



Salvatore S. Mangiafico, Ph.D.  
County Agent II/Associate Professor  
Environmental & Resource Management  
Internet: Mangiafico@njaes.rutgers.edu



Wesley L. Kline, Ph.D.  
County Agent II/Associate Professor  
Vegetable & Herb Production  
Internet: wkline@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 un-

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.....

<http://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*



1915-2019

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

**8:00 am Continental Breakfast**

**8:30 - 9:30 am**

**Pesticide Safety and IPM Program Update**

George Hamilton Ph.D.  
Specialist in Pest Management  
Rutgers, NJAES

**9:30 - 10:15 am**

**Weed Control Update and IPM Strategies for Turf**

Matt Elmore Ph.D.  
Specialist in Weed Science  
Rutgers, NJAES

**10:15 - 11:00 am**

**Root Competition and Other Growth Factors Affecting Trees & Shrubs**

Dr. Jason Grabosky,  
Dept. of Ecology, Evolution &  
Natural Resources  
Rutgers, NJAES

**11:00 - 11:15 am**

**Updates from NJNLA and NJTA**

**11:15 - 12:00 pm**

**The Latest on Turfgrass Endophytes: Current and Future Research**

James White, Ph.D.  
Professor  
Dept. of Plant Biology and Pathology  
Rutgers, SEBS

**12:00- 1:00 pm Buffet Lunch**

**1:00 - 1:45 pm**

**Update on the Spotted Lanternfly and other Invasive Insects of Trees & Shrubs**

Pam Zipse  
Outreach Coordinator  
Rutgers Urban Forestry Program

**1:45 -2:30 pm**

**Best Management Practices for Turfgrass Fertility and Renovation**

James Murphy Ph.D.  
Specialist in Turfgrass Management  
Rutgers, NJAES

**2:30 - 3:15 pm**

**IPM Strategies to Minimize Damage on Trees and Shrubs**

Steven Rettke, Program Associate  
Rutgers Greenhouse & Nursery IPM Program  
Rutgers, NJAES, RCE

**3:15 pm**

**Pesticide Credits and Adjourn**

**For help with registration call**

**848-932-9271 Option 2**

**or visit**

**www.cpe.rutgers.edu/CJTOI**

**Central Jersey Turf & Ornamental Institute Sign-Up Form**

**Wednesday, March 20, 2019**

Fees: \$100 per person  
(includes Continental Breakfast and Lunch)

*Course Code: AL1602CA19*

*To Register Online:*

*www.cpe.rutgers.edu/CJTOI*

*To register by mail/fax :*

Name(s): \_\_\_\_\_

Business Name: \_\_\_\_\_

Address: \_\_\_\_\_

State & Zip : \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

# of Attendees \_\_\_ X \$100 = \$ \_\_\_\_\_

**READ THIS! IMPORTANT INFORMATION**

All NJ Pesticide applicators must show a photo ID and Pesticide License #.

Payment is required with your registration.

**Make checks payable to:  
Rutgers, the State University of NJ.**

**Remit to:**

Rutgers University,  
Office of Continuing Professional Education  
102 Ryders Lane, New Brunswick, NJ 08901  
Fax: 732-932-1187

Questions about your registration?

Phone: 848-932-9271, Option 2

**Sign Up Deadline is Friday March 15**

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 nurseriesmen.

You will receive an e-mailed confirmation the day after you register. You can pick up your lunch ticket at the meeting. In case of severe weather, contact Middlesex County, RCE office for information 732-398-5262.

**Available Pesticide Credits:**

Core	3 units
1A	9 units
2	4 units
3A	4 units
3B	4 units
6B	9 units
8C	6 units
9	1 unit
10	1 unit
PP2	9 units

**ProFACT**

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

**[www.cpe.rutgers.edu/CJTOI](http://www.cpe.rutgers.edu/CJTOI)**

*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.

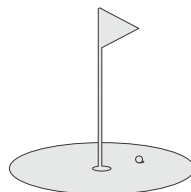
Directions to  
Battleground Country Club  
Millhurst Road, Manalapan  
[www.battlegroundcc.com](http://www.battlegroundcc.com)  
732-462-7575

NJ Turnpike South/North -  
Exit 8 (Rt. 33E). Rt. 33E for 9 miles to  
Route 527 North (Millhurst Road).  
Through light and around jughandle  
to take 527 N. Country Club  
is 1/2 mile on Right (Covenhoven Rd).

From North Jersey (GS Parkway) -  
Exit 123 . Rt. 9S for approx.  
13 miles to Rt. 33. Take Rt. 33 W  
To 3rd light, make right onto  
Rt. 527 N (Millhurst Rd.)  
Country Club is 1/2 mile on Right

From South Jersey (GS Parkway) -  
Exit 100B (Rt. 33 West).  
Rt. 33W for approx. 12 miles  
to Route 527 North (Millhurst Road).  
Turn right onto Rt. 527  
Country Club is 1/2 mile on the Right.

From South Jersey (Route 9N) -  
Follow Rt. 9N past Freehold Mall to Rt. 33W.  
Take Rt. 33 W  
To 3rd light, make right onto  
Rt. 527 N (Millhurst Rd.)  
Country Club is 1/2 mile on Right



New Jersey Agricultural  
Experiment Station

Cooperative Extension  
presents  
**2019**



**Central Jersey  
TURF &  
ORNAMENTAL  
Institute**

**Wednesday,  
March 20**

**Battleground  
Country Club  
Manalapan, N.J.**

For more information on  
this program, please call  
732-398-5262.

## About the instructors:

**Dr. Wes Kline** is an Agricultural Agent with Rutgers Cooperative Extension since 1996. He is responsible for the commercial vegetable and herb production programs in the county with research and extension activities based on growers' needs in integrated pest management, cultural practices, post-harvest handling and food safety. Dr. Kline collaborates with other specialists in screening and breeding peppers for disease resistance. He has authored and co-authored magazine and refereed journal articles on different aspects of pepper production. Before joining Rutgers Cooperative Extension, Dr. Kline worked in Central America with the United States Agency for International Development and the Honduras Foundation for Agricultural Research. He received his B.A. from Salem College, Salem, West Virginia and his MS and Ph.D. from Cornell University in the Vegetable Crops Department

**Dr. Sal Mangiafico** is a County Agent with Rutgers Cooperative Extension since 2009. He conducts public education and research concerning water conservation and preventing water pollution. He works with a diverse clientele in Cumberland and Salem Counties, including municipalities, watershed associations, environmental organizations, and agricultural producers. Dr. Mangiafico teaches two classes for undergraduates, one on statistical analyses for outreach program evaluation, and one on the social and environmental aspects of turfgrass in the United States. He received his B.A. in Environmental Studies and in Philosophy from Alfred University and his Ph.D. in Soil Science from the University of Connecticut.

**Pam Burton** has worked with Rutgers Cooperative Extension since 2013 as the Home Horticulturist and the Rutgers Master Gardener Program Coordinator. She graduated from Delaware Valley University with a B.S. in Ornamental Horticulture. Pam handles the Homeowner Helpline questions and provides recommendations for clients with gardening and horticulture related concerns. She writes a quarterly newsletter and does four radio spots on agriculture topics in conjunction with SNJ Today, 99.9 FM. She also oversees the Master Gardener volunteers.

## Directions

### From the North:

1. Take the NJ Turnpike to Exit 7
2. Take 295 South to Exit 26 (Rt. 42 S)
3. Proceed South on Rt. 42 to Rt. 55 South
4. Proceed South on Rt. 55 for about 29 miles
5. Take Exit 29 to Rt. 552 West (left turn)
6. Go approximately 3 miles into Carmel
7. Turn right at the stop light onto Morton Ave.
8. Go 1 – 1 ½ miles North on Morton Ave.
9. The Extension Center is on the left (brownstone & cedar-shingled building). There are two entrances and a sign on the road in front of the building.

### From the Northeast:

1. Take Garden State Parkway South to Exit 44
2. Go South on Rt. 575 to Rt. 322
3. Turn right (North) onto Rt. 322 and proceed about ¼ mile to the Rt. 40 jughandle at the shopping center (Hamilton Mall)
4. Proceed West on Rt. 40 approximately 7 miles to Rt. 552 (left turn)
5. Proceed West on Rt. 552. After about 12 miles, you must take a right turn onto Sherman Ave. which is still Rt. 552 West
6. You will go through a Vineland residential area, cross Rt. 47, and cross the overpass of Rt. 55
7. At the stop light (~3 miles from the overpass), turn right onto Morton Ave.
8. Go 1 – 1 ½ miles North on Morton Ave.
9. The Ext. Center is on the left (brownstone & cedar-shingled bldg.) There are 2 entrances and a sign on the road in front of the building

### From the South:

1. Take Rt. 55 North to Exit 29
2. Turn left onto Rt. 552 West (Sherman Ave.)
3. Go about 3 miles into Carmel
4. Turn right at the stop light onto Morton Ave.
5. Go 1 – 1 ½ miles North on Morton Ave.
6. The Ext. Center is on the left (brownstone & cedar-shingled bldg). There are 2 entrances and a sign on the road in front of the building.

*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.



# Gardening Down-Jersey Style

*Back-2-Basics Spring Series*

**This Third Thursday Spring Series of  
Programs are brought to you by  
Rutgers Cooperative Extension of  
Cumberland County and presented  
by County Agents and the  
Home Horticulture Program**

## Rutgers Master Gardeners of Cumberland County



Rutgers Master Gardeners are trained volunteers who assist Rutgers New Jersey Agricultural Experiment Station (NJAES) Cooperative Extension in its mission to deliver horticulture programs and information to the general public. Anyone with an interest in gardening and a commitment to volunteer service can become a Rutgers Master Gardener. No previous education or training in horticulture is required. Classes will be offered in 2020 from February through June.

**Extension Education Center  
291 Morton Ave.  
Millville, NJ 08332  
856-451-2800 X 4  
pamelabu@co.cumberland.nj.us**



# Gardening “Down Jersey” Style

*Back-2-Basics Spring Series*

We've heard the comment “We didn't know you offered those services at the Rutgers Cooperative Extension” so we are inviting you to these Back to Basics classes to come on out & see what we're all about! We developed these classes based on the most Frequently Asked Questions of the Horticulture Helpline and we encourage you to Bring It On with your own questions! We are looking forward to seeing you here on third Thursdays!

3/21/19: Can you Dig It?: A Soils Lab & Lecture



Cost: \$25.00, includes Rutgers Soil Analysis (valued at \$20 plus \$7 s/h); 10 am—11:30 am

Instructors: Sal Mangiafico, Pam Burton & Master Gardener volunteers

It's all about a GREAT foundation! In order to have a successful garden or lawn, it's vital to start with an analysis of the soil. As part of the cost of this program, clients will bring a 2 cup soil sample from an area of their lawn or garden, which will be sent for analysis to Rutgers (usually a \$20 cost plus \$7 s/h) along with 1 cup of soil to participate in inter-active soil stations. You will conduct a pH test; determine the soil texture; calculate the amount of lime, if needed; learn how to read a soil analysis; and learn how to use a Soil Compaction Meter and a Soil Probe, and so much more!

For instructions on How to Take a Soil Sample, please give us a call at 856-451-2800 Ext 1 or 4 or refer to Rutgers Fact Sheet 797, Soil Testing for Home Lawns and Gardens: Download it at <https://njaes.rutgers.edu/fs797/>

4/18/19: Down Jersey Vegetables



Cost: \$25.00, includes take home stake and weave supplies; 10 am—11:30 am

Instructor: Wes Kline

The most Frequently Asked Questions about vegetables on the “Down Jersey” Horticulture Helpline are focused on pole limas, asparagus, tomatoes, peppers and squash! Wes will provide growing and harvesting how-to's while answering your most FAQ's... Why didn't my pole limas ever get mature beans? How many asparagus plants do I need for a family of four? What is the best tomato for that good old-fashioned Jersey taste? My peppers have spots on them. My squash don't get blossoms on them! Wes will demonstrate The Stake and Weave Training System for Tomatoes in the Home Garden, Fact Sheet 1102; Download it at: <https://njaes.rutgers.edu/FS1102/>

5/16/19: Down the Garden Path  
Cost: \$25.00; includes Make and Take Herb Container Garden  
10 am—11:30 am



Instructors: Pam Burton & Master Gardener volunteers

Join Pam and volunteers for a walking garden tour of design possibilities for homescaping in the Eco-Friendly Pollinator, Rain and Meditation Gardens at RCE. Learn about what's trending in gardening, including going native, upcycling, sustainability, composting, and Integrated Pest Management. You will participate in a hands-on container garden make & take with a variety of herbs, grown by our own Master Gardener Propagation Team! Download Rutgers Fact Sheet 1140, Incorporating Native Plants in Your Residential Landscape at <https://njaes.rutgers.edu/fs1140/>

# Gardening Down-Jersey Style: *Back-2-Basics Spring Series*



Return Registration with non-refundable payment by “due” dates:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

✓		
□	3/21/19: Soils Lab & Lecture	\$25.00
	Due by 3/7/19	
□	4/18/19: Down Jersey Vegetables	\$25.00
	Due by 4/4/19	
□	5/16/19: Down the Garden Path	\$25.00
	Due by 5/2/19	

Total:

**BE ON THE LOOKOUT FOR THE FALL SERIES  
OF BACK -2- BASICS CLASSES!!!**

Registration is First come, First served & is considered confirmed only upon receipt of payment

Make check payable to: **Bd of Ag Research Acc't.**

**Mail to:**  
**Extension Education Center**  
**291 Morton Ave.**  
**Millville, NJ 08332**  
**856-451-2800 X 4**  
**pamelabu@co.cumberland.nj.us**





# Food Safety Modernization Act Grower Training and Third Party Audits

March 12-13, 2019

Rutgers Cooperative Extension of Cumberland County

291 Morton Avenue, Millville, NJ 08332

This training meets the FDA requirements for FSMA Produce Rule Training

## Last FSMA Training of the Season

### Who should attend:

- Fruit Growers
- Vegetable Growers
- Others Interested in produce safety, good agricultural practices/third party audits, or the Food Safety Modernization Act.



To register or for more information go to:

<http://rutgersonfarmfoodsafety.eventbrite.com>

Deadline to register is March 8, 2019

If you need more information contact Jennifer Matthews at [jmatthews@njaes.rutgers.edu](mailto:jmatthews@njaes.rutgers.edu)

Sponsored by The New Jersey Department of Agriculture (#5U18FD005877-020 and The National Association of State Departments of Agriculture (#5U01FD005334-04)

\*Funding for this program was made possible, in part, by the Food and Drug Administration through grant PAR-16-137. The views expressed in written materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does any mention of trade names, commercial practices, or

organization imply endorsement by the United States Government.\*



## Eastern Pennsylvania POTATO DAY

**Wednesday, March 13, 2019**

**9:15 a.m. -- registration, coffee and doughnuts**

**9:45 a.m. - 3:00 p.m. -- program**

**Schnecksville Grange Hall, Schnecksville, PA 18078**

**Registration on reverse side. \$15.00 per person, with or without meal.**

This year's Potato Day will again be held at the Schnecksville Grange Hall located at 5322 Route 873, Schnecksville, PA, 18078 -- 7/10th of a mile north of the Route 309/Route 873 intersection in Schnecksville. The Grange is on the west side of Route 873. *We have applied for 2 core and 2 category Pennsylvania Pesticide Update Credits for this meeting.*

- Sponsors: Pennsylvania Co-operative Potato Growers, Inc., Penn State University,  
Lehigh Valley Potato Growers Association
- 9:45 a.m. Welcome and Introductions - Meet the exhibitors and new CEO of the PA Co-op Potato Growers
- 10:00 a.m. Pollinators and Pesticide Stewardship - Andrew Frankenfield, Penn State Extension Educator
- 10:30 a.m. Potato Variety Research - Mike Peck, Plant Pathology and Environmental Microbiology,  
Penn State
- 11:00 a.m. PDA SCBGP Update On Russet Screening Trials and Specialty Potatoes - Bob Leiby, Agronomist,  
Pennsylvania Co-operative Potato Growers, Inc.
- 11:15 a.m. Potato Pest Management with Fumigation - Doug Gergela, TriEst Ag Group
- 11:30 a.m. Managing Early Blight on Potatoes - Sudeep Mathew, Syngenta
- 12:00 noon Pulled Pork Meal - Country View Farm
- 1:00 p.m. Annual Meeting of Lehigh Valley Potato Grower's Association - Tim Billig, President
- 1:10 p.m. Adjuvants versus Surfactants - Andrew Frankenfield
- 1:40 p.m. Managing Resistance on Potato Pests - Roundtable Discussion - Curtis Frederick,  
Senior Agronomist, Serman Masser, Inc.
- 2:10 p.m. Growing Potatoes in Extreme Weather - Bob Leiby
- 2:30 p.m. More Potato Topics...TBA
- 2:50 p.m. Pennsylvania Pesticide Update Credits - Bob Leiby
- 3:00 p.m. Adjourn

(Over for Registration)

**REGISTRATION**  
**Potato Day, March 13, 2019**

Name(s) \_\_\_\_\_ Phone \_\_\_\_\_

Address \_\_\_\_\_  
Street Address City State Zip Code

E-mail Address \_\_\_\_\_

\$15.00 per person. Please make \$15.00 check payable to: **PA Co-op Potato Growers, Inc.**

Return completed registration slip and check to: Potato Day, Lehigh County Agricultural Center,  
4184 Dorney Park Road, Room 104, Allentown, PA 18104-5798

-----  
Questions? Call Bob Leiby at 610-657-9467 or [rleiby@pacoopotatoes.com](mailto:rleiby@pacoopotatoes.com).

**Registration deadline March 8, 2019**

Pesticide Update Credits Requested from the Pennsylvania Department of Agriculture - 2 core and 2 category 03 and 18

**Wednesday, March 13, 2019**  
**9:15 a.m. -- registration, coffee and doughnuts**  
**9:45 a.m. - 3:00 p.m. -- program**  
**Schnecksville Grange Hall, Schnecksville, PA 18078**