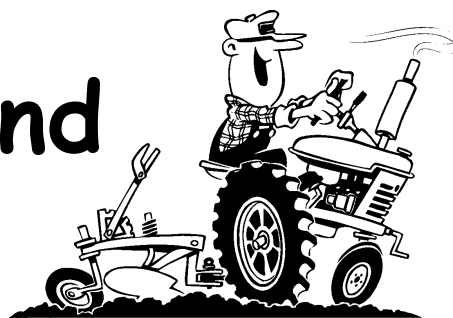


Cultivating Cumberland

January - 2018 VOL. 23, ISSUE 1



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Attachments:

Introduction to Organic Land Care: Certificate Course

Biodegradable Mulch

CORE Training Class

2018 NJ Ag Convention & Trade Show Schedule

Ultra-Niche Crops Series: Farming Roselle

USDA to Measure Bee and Honey Production and Colony Loss

U.S. Department of Agriculture

The U.S. Department of Agriculture's National Agricultural Statistics Service (NASS) will be collecting information about the honey industry. The Bee Production and Loss, Bee and Honey Inquiry, and Quarterly Colony Loss surveys will be conducted over the period of November 2017 through February of 2018. These surveys collect information about colony inventory and loss, honey production and sales, and production expenses from approximately 2,500 growers in the Northeastern region of the United States.

"The information from these surveys directly impacts our region's beekeepers and honey producers," said King Whetstone, director of the USDA's NASS, Northeastern Regional Field Office. "Keepers and producers can use the survey results when making business plans and marketing decisions and to review average commodity prices in their area. Cooperative Extension uses the data to provide needed outreach and education and State Departments and Agencies of Agriculture use the information to set insurance values."

In these surveys, NASS asks participants to answer a variety of questions about their colonies, honey production and expenses. For their convenience, survey participants have the option to respond online. As with all NASS surveys, information provided by respondents is confidential by law. NASS safeguards the confidentiality of all responses and publishes only State and National level data, ensuring that no individual producer or operation can be identified.

NASS will compile, analyze, and publish survey results in the March *Annual Honey* report. All previous *Annual Honey* publications are available online at <http://www.nass.usda.gov>. For more information on NASS surveys and reports, call the NASS Northeastern Regional Field Office at 1-800-498-1518.

USDA to Gauge Financial Well-Being of Northeastern Farmers and Ranchers

Beginning in late December, the U.S. Department of Agriculture's National Agricultural Statistics Service (NASS) will spend several months gathering information about farm economics and production practices from farmers across the Northeastern region, as the agency conducts the third and final phase of the 2017 Agricultural Resource Management Survey (ARMS).

"ARMS is the only survey program that allows anyone to clearly see the current financial well-being of Northeastern producers and their households as a whole," said King Whetstone, director of the NASS Northeastern Regional Field Office. "The results of this survey will serve as a primary source of information for numerous local and federal policies and programs that affect Northeastern farms and farm families."

NASS conducts ARMS jointly with USDA's Economic Research Service (ERS). In an effort to obtain the most accurate data, the federal agencies will reach out to more than 35,000 producers nationwide, including 1,100 in the Northeastern region, between January and April 2018. The survey asks producers to provide in-depth data on their operating expenditures, production costs and household characteristics.

"We realize that this survey is lengthy and some producers may have questions or need clarification," explained Whetstone. "In February, our interviewers will begin reaching out to those farmers who have not yet responded to answer any questions they may have and help them fill out their questionnaires."

In addition to accurate data, NASS is strongly committed to confidentiality. The agency will only publish data in an aggregate form. This helps safeguard the confidentiality of all responses, ensuring no individual respondent or operation can be identified.

The economic data gathered in ARMS will be published in the annual *Farm Production Expenditures* report on August 2, 2018. All NASS reports are available online at www.nass.usda.gov. ERS also plans to release a series of reports based on ARMS data. All of these reports will be available on the agency's site at www.ers.usda.gov.

For more information about the 2017 Agricultural Resource Management Survey visit www.nass.usda.gov/go/ARMS.

CENSUS COUNTDOWN BEGINS FOR NEW JERSEY FARMERS

New Jersey farmers have the opportunity to make a positive impact on their communities by taking part in the 2017 Census of Agriculture. Conducted every five years by the U.S. Department of Agriculture's (USDA) National Agricultural Statistics Service (NASS), the Census is a complete count of all U.S. farms, ranches and those who operate them. Forms are being mailed out throughout the state and also are available online at <https://www.agcensus.usda.gov/> with a submission deadline of February 5, 2018.

"We urge all farmers in New Jersey to respond promptly to ensure the most accurate reporting of the status of agriculture in the state," said New Jersey Secretary of Agriculture Douglas H. Fisher. "The Census provides information that benefits producers and their communities, from guiding production strategies to developing policy that strengthens and grows the industry."

The Census looks at land use and ownership, operator characteristics, production practices, income and expenditures and other topics. This information is used by all those who serve farmers and rural communities from federal, state and local governments to agribusinesses and trade associations.

Two sections of the Census that are of particular interest to New Jersey farm and livestock owners are Production Expenses and Income from Farm-Related Sources.

Production Expenses help show contribution of New Jersey agriculture to the economy. Another key to showing the importance of agriculture in New Jersey is Farm-Related Sources, which includes agri-tourism, pollinators, and boarding.

"The Census of Agriculture is USDA's largest data collection endeavor, providing some of the most widely used statistics in the industry," said U.S. Secretary of Agriculture Sonny Perdue. "Collected in service to American agriculture since 1840, the census gives every producer the opportunity to be represented so that informed decisions can support their efforts to provide the world with food, fuel, feed, and fiber. Every response matters."

The census is being mailed in several phases through December. Farm operations of all sizes which produced and sold, or normally would have sold, \$1,000 or more of agricultural product in 2017 are included in the census. The census is the only source of uniform, comprehensive, and impartial agriculture data for every state and county in the nation.

NASS has revised the census forms in an attempt to document changes and emerging trends in the industry. Changes include a new question about military veteran status, expanded questions about food marketing practices, and questions about on-farm decision-making to help better capture the roles and contributions of beginning farmers, women farmers, and others involved in running a farm enterprise.

"Producers can respond to the census online or by mail," said NASS Administrator Hubert Hamer. "We highly recommend the updated online questionnaire. We heard what people wanted and we made responding to the census easier than ever. The online questionnaire now has timesaving features, such as automatic calculations, and the convenience of being accessible on mobile and desktop devices."

Responding to the Census of Agriculture is required by law under Title 7 USC 2204(g) Public Law 105-113. The same law requires NASS to keep all information confidential, to use the data only for statistical purposes, and only publish in aggregate form to prevent disclosing the identity of any individual producer or farm operation. NASS will release the results of the census in February 2019.

For more information about the 2017 Census of Agriculture, visit www.agcensus.usda.gov or call (800) 727-9540.

Food Safety Modernization Act (FSMA): Produce Safety Alliance Grower Training & Third Party Audits

The following trainings are scheduled for 2018:

- ◇ February 8-**FSMA-Produce Rule Training**, NJ Ag Convention & Trade Show, 777 Harrah's Blvd., Atlantic City, NJ 08401. \$35/person, register online or at the door, 9am-4pm. Lunch not included. This cost is not included in the convention registration amount.
- ◇ February 20-21 - **FSMA-Produce Rule Training & Third Party Audits**, Rutgers Coop. Ext. Mercer County, 930 Spruce St., Trenton, NJ. \$50/Day 1 or \$75/Both days, 9am-4pm, Lunch included. Day 2 only option for Third Party Audits & Plan writing available.
- ◇ February 28 & March 1-**FSMA-Produce Rule Training & Third Party Audits**, Rutgers Coop. Ext. Cumberland County, 291 Morton Ave., Millville, NJ. \$50/Day 1 or \$75/Both days; 9am-4pm, Lunch included. Day 2 only option for Third Party Audits & Plan writing available.
- ◇ March 14 - **FSMA-Produce Rule Training for Blueberry Growers**, Philip E. Marucci Center for Blueberry & Cranberry Research, 125a Lake Oswego, Chatsworth, NJ. \$50/person, 9am-4pm, Lunch included.

Who Should Attend these trainings:

- Fruit and Vegetable Growers
- Anyone interested in produce safety, good agricultural practices/third party audits and FSMA.
- Those needing to meet the FDA requirements for FSMA Produce Rule Training.

What to Expect at the PSA Grower Training Course

Trainers will spend approximately seven hours covering the following seven modules:

- ⇒ Introduction to Produce Safety
- ⇒ Worker Health, Hygiene and Training
- ⇒ Soil Amendments
- ⇒ Wildlife, Domesticated Animals, and Land Use
- ⇒ Agricultural Water (Part I: Production Water; Part II: Postharvest Water)
- ⇒ Postharvest Handling and Sanitation
- ⇒ How to Develop a Farm Food Safety Plan

In addition to learning about produce safety best practices, parts of the FSMA Produce Safety Rule requirements are outlined within each module. There will be time for questions and discussion.

Course Benefits: Individuals who participate are expected to gain a basic understanding of:

- * Microorganisms relevant to produce safety and where they may be found on the farm
- * How to identify microbial risks, practices that reduce risks and how to begin implementing produce safety practices on the farm
- * Parts of a farm food safety plan and how to begin writing one
- * Requirements in the FSMA Produce Safety Rule and how to meet them

To Register or for more information please visit: <https://rutgersonfarmfoodsafety.eventbrite.com>

If you are unable to register online, call Tammy Commander at 856-451-2800, ext. 1 or email: commander@njaes.rutgers.edu

Landscape Award Winners Announced

Each year the New Jersey Nursery and Landscape Association gives out much deserved awards to Nurseryman and Landscapers in New Jersey.

Congratulations to the following NJNLA Award Winners for 2017:

Nurseryman of the Year:	H. Keith MacIndoe, Johnson Farms
Distinguished Service:	John Patten, PBJ-Gordon & NJGIC President
Retailer of the Year:	Sickles Market
Young Professional of the Year:	Bob Blew, Centerton Nursery
Hall of Fame Inductee:	Roger Ruske, Cumberland Nurseries
Green Industry Advocate of the Year:	Senator Christopher "Kip" Bateman

Federal Motor Carrier Safety Administration Delays Electronic Logging

December 18, 2017 marked the Congressionally mandated electronic logging device (ELD) compliance deadline which requires commercial vehicle drivers who are required to prepare hours-of-service (HOS) records of duty status to use ELDs. The Federal Motor Carrier Safety Administration (FMCSA) recently published:

- 1) a limited 90-day waiver from the Federal HOS regulations pertaining to electronic logging devices (ELDs) for the transportation of agricultural commodities; and
- 2) proposed regulatory guidance concerning the transportation of agricultural commodities.

Limited 90-Day ELD Waiver for the Transportation of Agricultural Commodities

<https://www.fmcsa.dot.gov/sites/fmcsa.dot.gov/files/docs/regulations/hours-service/elds/86071/limited-90-day-waiver-transportation-agricultural-commodities.pdf>

Proposed Regulatory Guidance Concerning the Transportation of Agricultural Commodities

<https://www.fmcsa.dot.gov/sites/fmcsa.dot.gov/files/docs/regulations/hours-service/elds/86076/proposed-regulatory-guidance-concerning-transportation-agricultural-commodities.pdf>

For more information on ELDs, please visit: www.fmcsa.dot.gov/eld

For questions about ELDs, the 90-day waiver, and/or proposed regulatory guidance, please contact your FMCSA State field office: <https://www.fmcsa.dot.gov/mission/field-offices>

Calendar of Important Events

↗ Indicates the newly added event since last calendar

January 2018

January 3

Pest Management of Ornamental Landscape Plants, Extension Conference Center, 18 Ag Extension Way, New Brunswick, NJ; 9am-3:30pm; \$195 by 12/26; \$210 after. Credits: 4-3B and 8-3A & PP2. Continental breakfast and lunch included. For more information call Joe Canzano 848-932-7317 or visit: www.cpe.rutgers.edu

↗ **January 4**

Indiana Vegetable Growers Symposium, Teibel's Restaurant, Schererville, Indiana.; \$30 by 12/14; \$35 at the door (no guaranteed lunch). For more information visit: www.edustore.purdue.edu or call Nikky 219-755-3240 or email: nikky@purdue.edu.

January 5-March 16

Landscape Plants: Identification, Selection and Application, Extension Conference Center, 18 Ag Extension Way, New Brunswick, NJ; 8:30am-12pm; \$895 by 12/22; \$950 after. Continental breakfast will be provided each day. For more information call Joe Canzano 848-932-7317 or visit: www.cpe.rutgers.edu

January 5-February 23

Landscape Design I: The Basics, Blake Hall, Studio Room 244, 93 Lipman Drive, New Brunswick, NJ; 1-4:30pm; \$745 by 12/22; \$795 after. For more information call Joe Canzano 848-932-7317 or visit: www.cpe.rutgers.edu

January 8

Managing Diseases of Ornamental Landscape Plants, Extension Conference Center, 18 Ag Extension Way, New Brunswick, NJ; 9am-3:30pm; \$195 by 12/22; \$210 after. Continental breakfast and lunch provided. For more information call Joe Canzano 848-932-7317 or visit: www.cpe.rutgers.edu

January 8-9

Kentucky Fruit & Vegetable Conference, Embassy Suites, Lexington, KY. For more information visit: www.uky.edu.

January 9-11

Integrated Pest Management, Rutgers Continuing Education, Extension Conference Center, 18 Ag Extension Way, New Brunswick, NJ; 9am-4pm; \$395 by 12/22; \$430 after. Pesticide credits: Day 1: 2 Core, 5-3A, 9-3B & 13, 3 Days: 2 Core, 4-10, 12-1A, 13 & PP2; 14-3B and 16-3A. For more information call Joe Canzano 848-932-7317

January 10-12

Illinois Specialty Crops, Agritourism and Organic Conference, Crowne Plaza Hotel & Convention Center, 3000 S. Dirksen Parkway, Springfield, IL. For more information call 309-557-2107 or email: Cblary@ilfb.org

January 11-14

Southeast Regional Fruit & Vegetable Conference, Savannah, GA. For more information visit: www.seregionalconference.com, email: registration@gfvga.org or call 706-407-2264

January 11-12

Mid Ohio Growers Meeting, Mt. Hope Event Center, Mt. Hope, OH. For more information call 330-275-7566.

January 12-12

2018 Illinois Specialty Crops, Agritourism and Organic Conference, Crowne Plaza Hotel and Convention Center, Springfield, IL. For more information or to be mailed a 2018 conference brochure, contact: Illinois Specialty Growers Assoc., 1701 Towanda Ave., Bloomington, IL 61701, call 309-557-2107, fax 309-57-3729 or email: cblary@ilfb.org

January 12-12

MANTS, Mid-Atlantic Nursery Trade Show, Baltimore Convention Center, One West Pratt St., Baltimore, MD. For more information visit: www.mants.com

January 12

27th Annual Rutgers Turfgrass symposium, School of Environmental & Biological Sciences, Rutgers University, Foran Hall, Room 138A; 8:30am-4:00pm, for more information contact Barbara Fitzgerald 848-932-6201 or Barbara.fitzgerald@rutgers.edu

January 15-17

2018 Ohio Produce Network, Kalahari Resort and Convention Center, Sandusky, Ohio. For more information visit: www.opgma.org or call 740-828-3400

January 16

Irrigation Systems for Athletic Fields, Rutgers Continuing Education, Extension Conference Center, 18 Ag Extension Way, New Brunswick, NJ; 9am-4pm; \$225 by 1/2; \$240 after. Continental breakfast and lunch provided. For more information visit: www.cpe.rutgers.edu or call: Joe Canzano 848-932-7317

January 16-18

2018 Empire State Producers Expo, SRC Arena & Event Center, Syracuse, NY. For more information visit: www.nysvga.org/expo/information/

January 17

Concrete Pavers, Rutgers Continuing Education, Extension Conference Center, 18 Ag Extension Way, New Brunswick, NJ; 9am-3:30pm; \$245 by 1/3; \$270 after. For more information visit: www.cpe.rutgers.edu or call Joe Canzano 848-932-7317

January 21-23

Wisconsin Fresh Fruit & Vegetable Conference, Kalahari Resort, Wisconsin Dells, WI. For more information call 888-443-3639

January 21-24

NASGA Annual Meeting, Astor Crowne Plaza-New Orleans French Quarter, New Orleans, Louisiana. For more information visit: www.nasga.org/n-american-strawberry-growers-conference.htm or call 613-258-4587

January 22

Better Business Management Skills for the Landscape Professional, Extension Conference Center, 18 Ag Extension Way, New Brunswick; 9am-3:30pm; \$195 by 1/8; \$210 after. For more information call Joe Canzano 848-932-7317 or visit: www.cpe.rutgers.edu

January 23

Organic Turfgrass Management, Cook Student Center, 59 Biel Road, New Brunswick; 8:30am-3:15pm; \$195 by 1/9; \$210 after. Pesticide credits 3/1A & PP2, 8/3B and 9/13. For more information call Joe Canzano 848-932-7317 or visit: www.cpe.rutgers.edu

January 23

Crops/Dairy Day in Franklin County, Rhodes Grove Camp & Conference Center, 7693 Browns Mill Rd., Chambersburg, PA; 8am-2:45pm. Registration deadline January 16, 2018. For more information call 1-877-345-0691.

January 24

Designing and Installing Retaining Walls, Extension Conf. Center, 18 Ag Extension Way, New Brunswick; 9am-4pm; \$245 by 1/10; \$270 after. For more information call Joe Canzano 848-932-7317 or visit: www.cpe.rutgers.edu

January 26

Pest Management of Landscape Turf, Cook Student Center, 59 Biel Road, New Brunswick, 9am-3:30pm; \$195 by 1/12; \$210 after. Pesticide credits: 2/13 and 11/3B & PP2. For more information call Joe Canzano 848-932-7317 or visit: www.cpe.rutgers.edu

January 29—February 1

Irrigation Systems: Design and Installation, Extension Conference Center, 18 Ag Extension Way, New Brunswick; 9am-4pm; \$695 by 1/15; \$725 after. For more information call Joe Canzano 848-932-7317 or visit: www.cpe.rutgers.edu

January 30-31

8th Annual NJ Plants Trade Show, NJ Convention Center, Edison, NJ. For more information visit: www.NJPlantShow.com, call 973-301-0773 or email: NJPlants@townsquaremedia.com

January 30-February 1

2018 Mid-Atlantic Fruit & Vegetable Convention, Hershey Lodge and Convention Center, Member registration: \$75 advanced; walk-in \$90. Non-member registration \$125 one day or \$165 three days. Pre-registration for workshops and tour is required. For more information call Maureen Irvin 717-677-4184 or visit: www.mafvc.org

February 2018**February 5**

Don't Panic! Field Repairs for Small Engines I, Extension Conf. Center, 18 Ag Extension Way, New Brunswick; 9am-3:30pm; \$295 by 1/22; \$325 after. For more information call Joe Canzano 848-932-7317 or visit: www.cpe.rutgers.edu

February 5, 6, 12 & 13

Introduction to Organic Land Care: Certificate Course, Rutgers Cooperative Extension of Monmouth County, 4000 Kozloski Road, Freehold, NJ. Registration \$500. NJ Pesticide credits: Core, 3B & 13- 4 units and 3A-12 units; ProFact credits—7 credits. For more information call 732-398-5274 or visit: <http://njaes.rutgers.edu/organiclandcare>.

February 6

Don't Panic! Field Repairs for Small Engines II, Extension Conf. Center, 18 Ag Extension Way, New Brunswick; 9am-3:30pm; \$295 by 1/23; \$325 after. For more information call Joe Canzano 848-932-7317 or visit: www.cpe.rutgers.edu

February 7

Shop Repairs for Small Engines I, Extension Conf. Center, 18 Ag Extension Way, New Brunswick, NJ; 9am-3:30pm; \$295 by 1/24; \$325 after. For more information call Joe Canzano 848-932-7317 or visit: www.cpe.rutgers.edu

February 8

Shop Repairs for Small Engines II, Extension Conf. Center, 18 Ag Extension Way, New Brunswick, NJ; 9am-3:30pm; \$295 by 1/25; \$325 after. For more information call Joe Canzano 848-932-7317 or visit: www.cpe.rutgers.edu

February 7-9

NJ Agricultural Convention & Trade Show, Harrahs Resort and Waterfront Conference Center, Atlantic City, NJ. For more information email Donna Dugan at donna52010@comcast.net.

February 12-13

Athletic Field Maintenance and Construction, Cook Student Center, 59 Biel Rd., New Brunswick, NJ; 8:30am-4pm; \$395 by 1/29; \$430 after. For more information call Joe Canzano 848-932-7317 or visit: www.cpe.rutgers.edu

February 14

Outdoor Entertainment Spaces, Extension Conf. Center, 18 Ag Extension Way, New Brunswick, NJ; 9am-3:45pm; \$245 by 1/31; \$270 after. For more information call Joe Canzano 848-932-7317 or visit: www.cpe.rutgers.edu

February 15

Irrigation Systems: Repair and Maintenance (Session II), Cook Student Center, 59 Biel Rd., New Brunswick, NJ; 9am-4pm; \$245 by 2/1; \$270 after. Continental breakfast & lunch provided. For more information call Joe Canzano 848-932-7317 or visit: www.cpe.rutgers.edu

February 15

CORE Training, Rutgers Cooperative Extension Cumberland County, 291 Morton Ave., Millville, NJ; FREE class; 7:45—12pm. Registration requested by Feb. 13th, see attached flyer. For more information, call Tammy Commander at 856-451-2800 x1.

February 20

Natural and Integrated Pest Management Strategies for Sports Turf, State Operator Training Center, 18 Ag Extension Way, New Brunswick, NJ; 8:00am-12:30pm; \$175 by 2/8; \$195 after. Pesticide credits: 9 unites in 3B and 13. For more information call Joe Canzano 848-932-7317 or visit: www.cpe.rutgers.edu

February 21

Tree Planting and Installation, Cook Student Center, 59 Biel Rd., New Brunswick, NJ; 9am-3:30pm; \$245 by 2/7; \$270 after. Continental breakfast and lunch provided. For more information call Joe Canzano 848-932-7317

February 21

Baseball and Softball Skin Surface Selection, State Operator Training Center, 18 Ag Extension Way, New Brunswick, NJ 08901, 8am-12pm; \$175 by 2/7; \$190 after. Pesticide credits: 3B & 13 - 4 units. For more information call Joe Canzano 848-932-7317

February 22

Tree Pruning, Cook Student Center, 59 Biel Rd., New Brunswick, NJ; 9am-3:30pm; \$245 by 2/8; \$270 after. For more information call Joe Canzano 848-932-7317

February 26

Sustainable Landscape Design, Extension Conference Center, 18 Ag Extension Way, New Brunswick, NJ; 9am-3:30pm; \$195 by 2/12; \$210 after. Continental breakfast and lunch provided. For more information call Joe Canzano 848-932-7317

📅 February 27

Managing Insect Pests of Ornamental Plants, Extension Conference Center, 18 Ag Extension Way, New Brunswick, NJ; 9am-3:30pm; \$195 by 2/13; \$210 after. Pesticide credits: 13-3 units, 2, 3A, 6B, 8C and PP2—10 units each. Continental breakfast and lunch provided. For more information contact Joe Canzano 848-932-7317

March 2018

📅 March 1

Hazardous Tree Identification (Session 2), Extension Conference Center, 18 Ag Extension Way, New Brunswick, NJ; 9am-3:30pm; \$245 by 2/15; \$270 after. Continental breakfast and lunch provided. For more information contact Joe Canzano 848-932-7317

📅 March 5-6

Beds and Borders Seminar, Cook Student Center, 59 Biel Rd, New Brunswick, NJ; 9am-3:30pm; \$395 by 2/19; \$430 after. Continental Breakfast and lunch provided. For more information contact Joe Canzano 848-932-7317

📅 March 5-9

2018 Florida Postharvest Horticulture Tour, Fifield Hall, University of Florida, 2550 Hull Rd., Gainesville, FL. Registration deadline February 5, 2018. For more information contact Adrian Berry at adberry@ufl.edu.

📅 March 7

Landscape Project Management, Cook Student Center, 59 Biel Rd., New Brunswick, NJ; 9am-3:30pm; \$195 by 2/14; \$210 after. Continental breakfast and lunch provided. For more information contact Joe Canzano 848-932-7317

📅 March 8

Park Management and Liability, Extension Conference Center, 18 Ag Extension Way, New Brunswick, NJ; 9am-3:30pm; \$195 by 2/22; \$210 after. Continental breakfast and lunch provided. For more information contact Joe Canzano 848-932-7317

📅 March 12-13

Landscape Lighting: Design and LED Technology, Extension Conference Center, 18 Ag Extension Way, New Brunswick, NJ; Day 1 9am-3:30pm; Day 2 9am-12pm; \$395 by 2/26; \$430 after. Continental breakfast and lunch provided. For more information contact Joe Canzano 848-932-7317

📅 March 19

Introduction to Pruning Techniques, Holly House, 130 Log Cabin Rd., New Brunswick, NJ; 9am-3:30pm; \$195 by 3/5; \$210 after. Continental breakfast and lunch provided. For more information contact Joe Canzano 848-932-7317

📅 March 20-21

Managing Turfgrass and Landscape Weeds, State Operator Training Center, 18 Ag Extension Way, New Brunswick, NJ; 9am-3:30pm; \$395 by 3/6; \$430 after. Pesticide credits: CORE-2 units; 1A-8 units; 2-6 units; 3A-16units; 3B-18 units; 9 & 3C-4 units; 6B-9 units; 8B-17 units; 10 & PP2-5 units. Continental Breakfast and lunch provided. For more information contact Joe Canzano 848-932-7317

REGULARLY SCHEDULED MEETINGS

✓ Indicates meeting will be held at RCE of Cumberland County

<p style="text-align: center;">✓</p> <p style="text-align: center;">Pesticide Certification Exam Schedule—Cumberland County 291 Morton Avenue Millville, NJ 08332 (Between Rosenhayn & Carmel)</p> <p style="text-align: center;"><u>2018</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Feb 15</td> <td style="width: 33%;">Mar 15</td> <td style="width: 33%;">Apr 19</td> </tr> <tr> <td>May 17</td> <td>Sep 20</td> <td>Oct 18</td> </tr> </table> <p>To Register call 609-984-6614 For directions call 856-451-2800</p> <p>*****</p>	Feb 15	Mar 15	Apr 19	May 17	Sep 20	Oct 18	<p style="text-align: center;">Cumberland County Agriculture Development Board County Administration Bldg. Freeholder Room 164 W. Broad Street Bridgeton, NJ 08332</p> <p style="text-align: center;"><u>2018</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Jan 9</td> <td style="width: 33%;">Feb 13</td> <td style="width: 33%;">Mar 13</td> </tr> <tr> <td>Apr 10</td> <td>May 8</td> <td>June 12</td> </tr> <tr> <td>Jul 10</td> <td>Aug 14</td> <td>Sept 11</td> </tr> <tr> <td>Oct 9</td> <td>Nov 13</td> <td>Dec 11</td> </tr> </table> <p>Reg. Meetings start at 7 p.m. Information call 856-453-2211</p> <p>*****</p>	Jan 9	Feb 13	Mar 13	Apr 10	May 8	June 12	Jul 10	Aug 14	Sept 11	Oct 9	Nov 13	Dec 11	<p style="text-align: center;">✓</p> <p style="text-align: center;">Cumberland County Board Of Agriculture 291 Morton Avenue Millville, NJ 08332 (Between Rosenhayn & Carmel) 7 pm meetings</p> <p style="text-align: center;"><u>2018</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Jan 18</td> <td style="width: 33%;">Feb 15</td> <td style="width: 33%;">Mar 15</td> </tr> <tr> <td>Apr 19</td> <td>May 17</td> <td>Sept 20</td> </tr> <tr> <td>Oct 18</td> <td>Nov 15</td> <td>Dec 20</td> </tr> </table> <p>For info call Hillary Barile, President 856-453-1192</p> <p>*****</p>	Jan 18	Feb 15	Mar 15	Apr 19	May 17	Sept 20	Oct 18	Nov 15	Dec 20
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**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

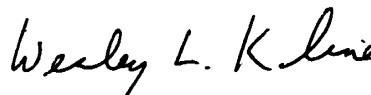
Questions? Call Division of Ag & Natural Resources, NJ Dept. of Ag 609-292-2242

2018 Dates will be published when available

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



1915-2017

NONPROFIT ORGANIZATION
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PERMIT NO. 186

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

RUTGERS
New Jersey Agricultural
Experiment Station

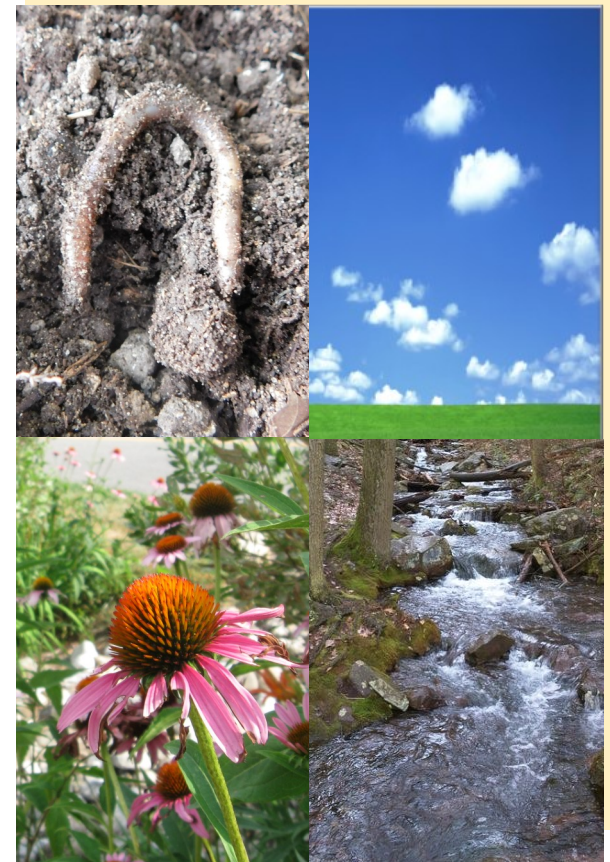
Introduction to Organic Land Care: Certificate Course

February 5, 6, 12, 13, 2018

(Snow date: February 15)

8 AM – 5 PM

Rutgers Cooperative Extension
of Monmouth County
Freehold, New Jersey



Rutgers Cooperative Extension of Middlesex County
Davidson Mill Pond Park
42 Riva Ave.
North Brunswick, NJ 08902

First Class
POSTAGE PAID
New Brunswick, NJ 08901
Permit 157

The **Rutgers Cooperative Extension Introduction to Organic Land Care course** is a 4 day class for landscapers and land care providers.

Over 20 university and industry experts teach the course and share their experience of how to successfully transition a landscape to organic management and add organic services to a business.

The course focuses on organic practices for promoting healthy soil, enhancing biodiversity, and reducing polluted runoff from managed landscapes.

The course is designed for professional landscapers, property managers, public works employees, groundskeepers, landscape architects and Rutgers Master Gardeners.

The certificate program requirements include:

- Attendance at the 4 day course
- Passing an optional exam based on course content

Participants that pass the exam will receive a certificate of completion and be listed on the organic land care program website:

www.njaes.rutgers.edu/organiclandcare

This course offers:

- Pesticide re-certification:
New Jersey: Core- 4 units; 3A- 12 units; 3B- 4 units; 13- 4 units
New York: Call for details
Pennsylvania: Call for details
- Fertilizer applicator NJ re-certification (ProFact)– 7 credits
- The NJDEP Natural Turf and Landscape Management Certificate.
- NOFA AOLCP: credits pending
- Landscape Architecture Continuing Education System (LA CES): 10 hours

PROGRAM AND SPEAKERS

Monday, February 5

- Physical, Chemical, Biological Aspects of Soil– Rachel DeFlumeri, Master Gardener Coordinator, Rutgers
- Soil Food Web- Jennifer Adams Krumins, Associate Professor, Montclair State University
- Lawn Installation, Fertilization, and Management- Matt Elmore, Weed Scientist Extension Specialist in Turfgrass and Brad Park, Sports Turf Research & Education Coordinator, Rutgers University

Tuesday, February 6

- Pesticide Risk, Toxicity and Environmental Contamination- Roy Meyer, Former Bureau Chief, NJDEP
- Water Quality Protection, Michele Bakacs, Environmental Agent, Rutgers Cooperative Extension
- Compost and Compost Tea- Michael Kolenut, President, Lincoln Landscaping
- Sustainable Landscape Design- Jan-Marie Traynor, Professor Emeritus, County College of Morris
- Tree and Shrub Planting and Plant Care- Larry Kuser, Owner, Fernbrook Farms

Monday, February 12

- Key Insect/Mite Pests of Landscape Trees & Shrubs- Steve Rettke, Ornamental IPM Program Associate, Rutgers
- Incorporating Native Plants and Lawn Alternatives- Rik McCoy, President, McCoy Horticultural Services
- Landscaping with Edible Plants- Joseph Heckman, Extension Specialist in Soil Fertility, Rutgers
- Organic Principles- History and Philosophy- Joseph Heckman, Extension Specialist in Soil Fertility, Rutgers
- Diseases and Disorders in the Landscape: Managing the Mania- Nick Polanin, Rutgers Cooperative Extension

Tuesday, February 13

- Rain Gardens- Amy Rowe, Environmental Agent, Rutgers Cooperative Extension
- Business Management and Customer Communications- Chris Paul, President, Genesis Landscape Contractors
- Organic Landscapers Panel Discussion- Barry Draycott, Tech Terra Environmental; Keith Haitz, HydroGreen; Steve Davidson, Earth Groomers; Rik McCoy, and Chris Paul
- Exam, pesticide recertification form distribution, program evaluation

LOCATION

Rutgers Cooperative Extension of Monmouth County

4000 Kozloski Rd., Freehold, New Jersey 07728 (Use 3000 Kozloski Rd for GPS)

MORE INFORMATION

Visit <http://njaes.rutgers.edu/organiclandcare> or call (732) 398-5274. In the event of inclement weather, please call and listen to recording.

Mention or display of a trademark, proprietary product, or firm in text or figures does not constitute an endorsement by Rutgers Cooperative Extension and does not imply approval to the exclusion of other suitable products or firms.

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.

Registration Form

(or register online at njaes.rutgers.edu/organiclandcare)

Please fill out one registration form per attendee.

Name *(Please print clearly)*

Company/Organization Name

Street Address

Town, State, Zip Code

County

Phone

Email

Space is limited. Please register early.

Includes program, optional exam, and listing of business on Rutgers website. *Breakfast and lunch to be provided each day.*

- Early registration by 12/31/17- \$475
- After 12/31/17- \$500
- Optional printed materials fee: \$50
Otherwise materials will be distributed electronically.

Credit cards accepted with online registration at

njaes.rutgers.edu/organiclandcare

Checks, purchase orders, or money orders must be mailed with this form and made out to "Rutgers, The State University of New Jersey"

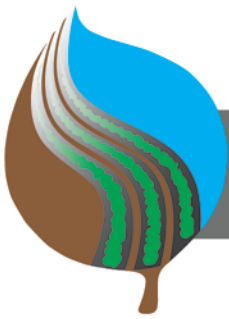
Mail form and payment to:

Amy Rowe

Cooperative Extension of Passaic County

1310 Route 23 North

Wayne, NJ 07470



Performance and Adoptability Biodegradable Mulch

biodegradablenmulch.org

Report No. FA-2017-01

December, 2017

Author:

Carol Miles

Summary

Oxo-degradable plastic is not biodegradable in field conditions; fragments will remain in the soil or surrounding environment for decades, where they become micro or nano particles that are pollutants in soil and water systems. There is a call to ban oxo-degradable plastic packaging in the U.S. and EU because it poses risk to our environment.

This material is based upon work that is supported by the National Institute of Food and Agriculture, under award number 2014-51181-22382. Any opinions, findings, conclusions, or recommendations expressed in this publication are those of the author(s) and do not necessarily reflect the view of the U.S. Department of Agriculture.



United States
Department of
Agriculture

National Institute
of Food and
Agriculture

Oxo-degradable Plastics Risk Environmental Pollution

Three types of agricultural mulch films are commercially available: (1) conventional plastic mulch film composed largely of polyethylene (PE) and designed to be removed from the field, (2) biodegradable plastic mulch made of starch and/or synthetic inputs and designed to be tilled in and biodegrade in the soil, and (3) oxo-degradable plastic. Oxo-degradable plastic is made with conventional plastic: high density PE (HDPE), low density PE (LDPE), polypropylene (PP), polystyrene (PS), polyethyleneterephthalate (PET), or polyvinylchloride (PVC). Oxo-degradable plastic includes additives that cause the material to become brittle and break apart into fragments when exposed to UV light, heat and/or oxygen. Several studies show oxo-degradable plastics fragment in field conditions (EU Commission 2017; Steinmetz et al. 2016).

Oxo-degradable Plastic Not Biodegradable in the Field

Certification tests for oxo-degradable plastics degradation do not require that a certain percent of degradation occurs within a specified time frame. These tests provide methods, but they do not provide pass/fail criteria. However, companies cite these tests to imply that their product has met international standards, which is misleading (FTC, 2015). Independent, third party data using standard ASTM & ISO biodegradation tests show only a small percentage or no plastic fragments of oxo-degradable plastic are utilized by soil microorganisms when oxo-degradable plastics are assessed in field tests (European Commission, 2017; Steinmetz et al., 2016). Even in laboratory environments with carefully controlled temperature and light conditions, oxo-degradable plastics biodegrade very slowly. No laboratory test has shown more than 91% degradation in soil during two years, and some show that degradation stops completely when 13 – 65% degradation has occurred (European Commission, 2017; Steinmetz et al., 2016). In the United States, the Federal Trade Commission (FTC) has concluded that an oxo-degradable plastics manufacturer made false, misleading and unsubstantiated claims regarding the biodegradation of its oxo-degradable plastics (FTC, 2015).



Macro and micro oxo-degradable plastic fragments accumulate in soil (Fig. 1) and ocean environments, where they can absorb toxins, and can be transported up the food chain (European Commission, 2017). Further, studies demonstrate that oxo-degradable plastic is not compostable, and is not suitable for anaerobic digestion (European Commission, 2017). Oxo-degradable plastic also reduces the quality of plastics recycle, but oxo-degradable plastic cannot be identified and separated in the plastic waste stream (European Commission, 2017).



Figure 1. Three years after oxo-degradable mulch field application, Everett, WA. (Photo by A. Bary)

Ban Called for Oxo-degradable Plastic

In the European Union (EU), the use of oxo-degradable plastics have been found to pose a risk of significant environmental damage (European Commission, 2017). Thus, the EU is considering a ban on oxo-degradable products, namely bags and other packaging, aimed for markets where composting or anaerobic digestion would be possible fates. In the United States, the Ellen MacArthur Foundation, along with 150+ organizations, also is calling for a ban of oxo-degradable plastic packaging (New Plastics Economy, 2017).

Farmers Be Aware

Farmers and agricultural suppliers must be aware that oxo-degradable plastic companies are selling oxo-degradable plastic mulch in North America. Manufacturers of oxo-degradable mulches have not provided any further evidence to demonstrate that these products meet standards and tests that are used to determine biodegradability of plastic products in open environments. Until third party evaluations have shown otherwise, farmers and agricultural suppliers should consider that oxo-degradable mulches are not biodegradable, compostable, or recyclable, and cannot be placed in anaerobic digesters.

References and Further Reading

European Commission. 2017. Study to provide information supplementing the study on the impact of the use of “oxo-degradable” plastic on the environment. Final Report for the European Commission DG Environment. Eunomia Research and Consulting Ltd. DOI: 10.2779/081633

Federal Trade Commission. 2015. FTC concludes ECM BioFilms made false, misleading, and unsubstantiated claims about the biodegradability of plastic products treated with its additive. <https://www.ftc.gov/news-events/press-releases/2015/10/ftc-concludes-ecm-biofilms-made-false-misleading-unsubstantiated>

New Plastics Economy. 2017. Oxo-degradable plastic packaging is not a solution to plastic pollution, and does not fit a circular economy. <https://newplasticseconomy.org/assets/doc/oxo-statement-vF.pdf>

Steinmetz, Z., C. Wollmann, M. Schaefer, C. Buchmann, J. David, J. Tröger, K. Muñoz, O. Frör, G.E. Schaumann. 2016. Plastic mulching in agriculture. Trading short-term agronomic benefits for long-term soil degradation? *Sci. Total Environ.* 530:690-705. DOI: 10.1016/j.scitotenv.2016.01.153

Program Schedule

7:45 am **Registration**

8:00 am **Class Begins**
Wayne, Knerr, Helena Chemical

February 15th is a scheduled testing date at our office. **You must be registered with the NJDEP** by February 1st to receive a testing time for this date. The registration paperwork can be obtained on line at: <http://www.nj.gov/dep/> When registering you must request a test time of 12 or 2 p.m. When doing your registration, indicate to the DEP that you are taking this class.

CORE credits have been requested for this class!

All necessary paperwork required by the DEP will be distributed at the end of class.

This class will be held in the Klem Activity building behind the Extension Center. Access to the Klem Building is through the back parking lot of the Extension Center. Any questions either call Tammy at 856-451-2800 x1 or stop in the Extension Center. A small amount of parking is available at the Klem Activity Building. Majority of the parking is at the Extension Center. Those parking at the Extension Center will need to walk through the path to get to the Klem Activity Building.

Registration Form

Please Send in with Payment

Name(s)

e-mail

Address

Telephone

Cost: FREE

RETURN registration by February 13th .
No confirmation notices will be sent.

Mail to:

Pesticide Training
Rutgers Cooperative Extension-Cumberland Co.
291 Morton Avenue, Millville, NJ 08332
ATT: Tammy

Questions: Contact Tammy Commander at
856-451-2800x1 or Wayne Knerr at 609-685-5246

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.

Why you should attend:

Topics of Interest:

- Required training for CORE test
- Discuss various category requirements
- Get answers to all of your questions
- No charge for the class
- Make pesticide testing easy
- Pesticide credits requested
- Learn to read pesticide labels

Details

Date: Thursday, February 15, 2017

Place: Rutgers Cooperative Extension,
Klem Activity Building
291 Morton Ave., Millville, NJ

**Access to the Klem Building is through the Main parking lot of the Extension Center

Cost: Free

Pre-registration requested by Feb. 13, 2017.

Questions: Call 856-451-2800 x1

Directions

856-451-2800

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

RUTGERS

New Jersey Agricultural
Experiment Station

SOUTH JERSEY

CORE Training

Thursday, February 15, 2017

8:00 a.m. – 12:00 p.m.

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

Required training for CORE
Pesticide test

To register, please fill out and mail
registration form in this brochure by
February 13, 2017.