January 2018

Ohio—Northwest Region

Agriculture and Natural Resources Newsletter
Nutrient Management Plan Writers
Nutrient Management Plan Writers Are Still At Work In The Western Lake Erie Basin In 2018

Nutrient Management Plan Writers are still working for the 2018 year in the Western Lake Erie Basin to write free plans for non-CAFO farmers. Our goal is to complete 65,000 acres for NMP’s in 2018. These plans are written free of charge to farmers and require a small amount of your time and effort. As the plan writer we gather information that is pertinent to your farm such as your crop rotations, tillage practices, current (within three years) soil test results, yield goals, conservation goals, where water is and more. Then we take that information and work it into several computer programs to complete a NMP or CNMP for your farm. These plans may be required for many financial institutions when building new livestock structures. They may also help with your plan to apply for EQIP funding through NRCS and serve as affirmative defense through SWCD. The NMP may help you reduce your fertilizer cost and provide 4R recommendations for nutrient stewardship practices for your farm.

All four NMP Writers are available to work with anyone from the WLEB and if you would like to discuss a NMP or CNMP for your farm please contact one of us at our offices:

Jessie Schulze – Defiance County – 419-782-4771
Linda Lauber – Fulton County – 419-337-9210
Tony Campbell – Paulding County – 419-399-8225
Brittany Sieler – Wood County – 419-354-9050

You can also contact any of your county Extension Ag Educators who can forward the information to us. Check out our website at: http://agcrops.osu.edu/
Aquaculture Team
https://southcenters.osu.edu/

Beef Team
http://u.osu.edu/beefteam/

Dairy Team
http://dairy.osu.edu/

Meat Goat Team
http://ohioline.osu.edu/factsheet/14

Poultry Team
http://u.osu.edu/poultry/

Sheep Team
http://sheep.osu.edu/

Swine Educators Team
http://porkinfo.osu.edu/

OSU Extension Agriculture Business Management Teams
http://agnr.osu.edu/programs/business-management

OSU Extension Horticulture & Specialty Crops Teams
http://agnr.osu.edu/programs/horticulture-specialty-crops

OSU Extension Small Farm Programs
http://agnr.osu.edu/small-farm-programs

OSU Extension Natural Resources & Environmental Teams
http://agnr.osu.edu/programs/natural-resources-environmental

Ag Law & Taxation Staff:
Peggy Kirk Hall, J.D., Assistant Professor, Field Specialist, Agricultural & Resource Law, 937-645-3123, hall.673@osu.edu
Julie Moose, Program Assistant, Agriculture Law and Income Tax Schools, 614-292-2433, moose.14@osu.edu
Barry Ward, Director, OSU Extension Income Tax School Program, 614-688-3959, ward.8@osu.edu

Ohio Farm Management Enterprise Budgets
are budgets with Ohio statistics for corn, soybeans, wheat, alfalfa hay, alfalfa haylage, and corn silage. Ohio State University Extension also has budgets for beef, dairy, sheep, and swine. All of these budgets are in MS Excel spreadsheets so that you can put your own numbers in to see how things pencil out for your operation.

These are available online at
http://farmoffice.osu.edu
## Ohio Private Pesticide Applicator's Recertification/License Categories

The following are the categories in which you can be a licensed private pesticide applicator:

**CORE**—As part of their training for using pesticides legally and safely, every licensed pesticide applicator must have CORE.

1. **Grain and Cereal Crops**
   Application of restricted-use pesticides, except fumigants, to agronomic field crops including, but not limited to, corn, grain, sorghums, other small grains, soybeans, and sweet corn; and application of specialty uses (see Category 7).

2. **Forage Crops and Livestock**
   Application of restricted-use pesticides, except fumigants, to crops grown primarily for use as hay, forage, fodder, or ensilage, and includes, but not limited to, such crops as corn and legumes, and to domestic animals which are held as agricultural commodities and their quarters; and application of specialty uses (see Category 7).

3. **Fruit and Vegetable Crops**
   Application of restricted-use pesticides, except fumigants, to orchard fruit crops, and small fruits including, but not limited to, strawberries, brambles, and grapes, field-grown vegetables, sugar beets, sweet corn, and other horticultural crops grown primarily for human consumption; and application of specialty uses (see Category 7).

4. **Nursery and Forest Crops**
   Application of restricted-use pesticides, except fumigants, to commercial nursery crops including, but not limited to, trees, shrubs, grasses, and herbaceous plants produced for replanting for their ornamental value or for future fruit production; and tree crops produced for use as Christmas trees or for their utilitarian value; and application of specialty uses (see Category 7).

5. **Greenhouse Crops**
   Applications of restricted-use pesticides, except fumigants, to crops grown for food production or ornamental value under an impervious surface large enough to permit worker entry; and application of specialty uses (see Category 7).

6. **Fumigation**
   Application of restricted-use fumigants to soil, grain storage, greenhouse areas or any other confined areas; and application of specialty uses (see Category 7).

7. **Specialty Uses**
   Applicator only needs this category if he or she does NOT hold one or more of categories (1-6).

---

### Helpful Resources Continued...

**AgBMPs**
[http://agbmps.osu.edu](http://agbmps.osu.edu)
Private and public dollars available to address erosion and nutrient loss concerns from agricultural production fields are limited. A cost effective way to reach conservation goals to reduce erosion and nutrient losses is to identify field situations with potentially higher risk [Critical Concerns](http://agbmps.osu.edu), then match potential [Best Management Practices (BMP's)](http://agbmps.osu.edu) for implementation with the field situation and management used.

Resources are limited for professionals from Soil and Water Conservation Districts (SWCDs), State Agencies and the Natural Resources Conservation Service (NRCS) to cover the landscape identifying critical concerns for farmers/landowners. The intent of this website is to empower farmers/landowners with the knowledge necessary to identify the high risk situations that exist in their farm fields and the ability to know when to seek professional help for implementing cost effective conservation. This website provides a summary of critical concerns found in the landscape and in agronomic farm plans, a review of potential Best Management Practices (BMPs), and a list of resources and people/agencies to contact.

**OSU Extension Grape and Wine Research**
[http://ohiograpeweb.cfaes.ohio-state.edu](http://ohiograpeweb.cfaes.ohio-state.edu)
If you are novice to this cash crop or wanting to refresh your knowledge about commercial grape and wine production in Ohio, please visit the "Grape Growing" and "Wine Making" pages. To keep abreast of the current situation in Ohio vineyards, learn about research updates from the OSU Team, check out the “Newsletter” page. Our Team has also developed several Extension bulletins and factsheets listed under "Resources" and one-click away for downloading on your electronic device. Our goal is to increase accessibility of our work at OSU to the general public.

**OSU Agronomic Crops Team**
[http://agcrops.osu.edu/](http://agcrops.osu.edu/)
The Agronomic Crops Team is a multi-disciplinary group of Extension Agents, State Specialists and Researchers from Ohio State University Extension, The Ohio State University and Ohio Agricultural Research and Development Center. Disciplines included on the Team: Soil Sciences, Agronomy, Plant Pathology, Entomology, Agricultural Engineering, Weed Science.
Ohio Nutrient Management Record Keeper App
www.onmrk.com
Ohio Nutrient Management Record Keeper (ONMRK) is a computerized recordkeeping system that syncs with your smartphone or tablet to create a simple, easy, and quick way to record all of your fertilizer and manure applications from the field. The free app works on tablets, iPads, and smartphones. It can be downloaded from the Google Play Store for Android devices and App Store for Apple devices.

To get started, simply go to the app's website www.onmrk.com. After setting up your account, enter your farm and field information. Download and open the app on your smartphone or tablet and enter your applicator key. All of the data that has been entered on your computer will now synchronize with your smartphone or tablet. The app features drop-down menus and quick entry fields which make it fast and easy to enter the required information.

Healthy Soils — Healthy Environment
http://soilhealth.osu.edu
The Healthy Soils — Healthy Environment is an Ohio State University Extension Signature Program that will create a Soil Health Education and Outreach Network comprised of OSU researchers, Extension educators and 4-H educators. The program’s long-term goal is to help improve Ohio’s Soil Health and Environment by educating farmers, youth and the general public.

Weed Science/Management Information from Ohio State
http://u.osu.edu/osuweeds/
Get help with field crop weeds questions and answers. Find help with weed identification. Get the latest information on critical questions with herbicides from Dr. Mark Loux’s blog.

Buckeye Yard & Garden Online
http://bygl.osu.edu
Buckeye Yard and Garden onLine provides timely information about Ohio growing conditions, pest, disease, and cultural problems. Articles and supporting photos are created by members of the Extension, Nursery, Landscape, Turf (ENLT) team to benefit those who are managing a commercial nursery, garden center, or landscape business or someone who just wants to keep their yard looking good all summer. Additional fact sheet information on any of these articles may be found through the OSU FactSheet database: plantfacts.osu.edu

Private Pesticide Applicator License Recertification Training (PAT) and Fertilizer Applicator Recertification Training (FACT) in Northwest Ohio

Recertification cost varies per location. Registration is required at all locations.

Hancock County
January 30
8:00 AM-12:00 PM
PAT Categories (CORE, 1, 2, 3, 4, 5, 6) Plus 1 Hour Fertilizer Recertification (Category 15)
Cost: $40 for both Pesticide and Fertilizer Recertification; $35 for Pesticide Only; $10 for Fertilizer only if registered before January 26. *Light refreshments provided with Registration.* Pay at the door or online. Credit card payments accepted online only.
Location: Hancock County Agricultural Service Center, 7868 County Road 140, Findlay, OH 45840
Contact: Ed Lentz, (419)422-3851, lentz.38@osu.edu

Paulding County
January 30
8:30 AM-12:30 PM
PAT Categories (CORE, 1, 2, 3, 4, 5, 6, 7) Plus 1 Hour Fertilizer Recertification (Category 15). Fertilizer Recertification starts at 8:30 AM and PAT starts at 9:30 AM
Cost: $40 for the complete program; $10 for Fertilizer Recertification only if registered before January 22. *Light refreshments provided with Registration.*
Location: Paulding County Extension Office, 503 Fairground Drive, Paulding, OH 45879
Register online at: paulding.osu.edu
Contact: Sarah Noggle, (419)399-8225, noggle.17@osu.edu

Richland County
February 1
8:30 AM-12:30 PM
PAT Categories (CORE, 1, 2, 3, 4, 5, 6, 7) Plus 1 Hour Fertilizer Recertification (Category 15)
Cost: $40 if registered before January 31.
Location: Richland County Longview Center, 1495 W. Longview Ave., Mansfield, OH 44906
Contact: Jason Hartschuh, (419)562-8731, hartschuh.11@osu.edu
Pesticide Recertification & Fertilizer Recertification continued....

Putnam County  
February 6  
5:00 PM-9:00 PM

PAT Categories (CORE, 1, 2, 3, 4, 5, 6, 7) Plus 1 Hour Fertilizer Recertification (Category 15)

Cost: $40 for the complete program; $10 for Fertilizer Recertification only if registered before February 5. No late registrations accepted.

Location: Ottawa American Legion Hall, 218 W. Main Street, Ottawa, OH 45875

Register online at:  www.putnam.osu.edu

Contact: Beth Scheckelhoff, (419)523-6294, scheckelhoff.11@osu.edu

Van Wert County  
February 6  
9:00 AM-1:00 PM

PAT Categories (CORE, 1, 2, 3, 4, 5, 6, 7) Plus 1 Hour Fertilizer Recertification (Category 15)  Fertilizer Recertification starts at 9:00 am and PAT starts at 10:00 am.

Cost: $40 for the complete program; $10 for Fertilizer Recertification only if registered before February 2. Light refreshments provided with Registration.

Location: Van Wert County Extension Office, 1055 S. Washington St., Van Wert, OH 45891

Contact: Curtis Young, (419)238-1214, young.2@osu.edu

Seneca County  
February 13  
8:30 AM-12:30 PM

PAT Categories (CORE, 1, 2, 3, 4, 5, 6, 7) Plus 1 Hour Fertilizer Recertification (Category 15)

Cost: $40 if registered before February 6.

Location: Attica Fairgrounds, 100 Fairgrounds Road, Attica, OH 44807

Contact: Mike Gastier, (419)668-8219, gastier.3@osu.edu

Defiance County  
February 19  
9:00 AM-12:00 PM

PAT Categories (CORE, 1, 2, 3, 4, 5, 6, 7) Plus 1 Hour Fertilizer Recertification (Category 15)

Cost: $40 for the complete program; $10 for Fertilizer Recertification only if registered before February 12. No late registrations accepted. Light refreshments provided with Registration.

Location: Defiance County Extension Office, 06879 Evansport Road, Defiance, OH 43512

Contact: Bruce Clevenger, (419)782-4771, clevenger.10@osu.edu
Farmers’ Share Breakfast & Agriculture Hall of Fame Ceremony
March 15 8:00 AM-10:00 AM Hancock County
Tickets required for event.
Cost: $3-5 if registered before. Breakfast included in Registration
Location: Brugeman Lodge, 9250 TR 208, Findlay, OH 45840
Contact: Ed Lentz, (419)422-3851, lentz.38@osu.edu

Agriculture Appreciation & Hall of Fame Breakfast
March 20 8:00 AM-10:00 AM Defiance County
Defiance County Ag Hall of Fame Application Deadline is Feb 1st with applications available at https://defiance.osu.edu. Breakfast and program open to the general public.
Cost: $4 if registered before March 13. Breakfast included in Registration
Location: Defiance Knights of Columbus, 111 Elliott Rd., Defiance, OH 43512
Contact: Bruce Clevenger, (419)782-4771, clevenger.10@osu.edu

2018 Woman in Ag Conference
March 23 8:00 AM-3:00 PM Wood County
The 2018 Woman in Ag Conference is celebrating its 25th year. This years keynote speaker is Laura Daniels from Cobb Wisconsin. Laura describes herself as a mother, farmer, dairy consultant, and agriculture advocate. Her keynote address is titled Using Baler Twine & Barn Lime to Live a Life with Purpose.
Cost: $45 if registered before March 2. Lunch included in Registration
Location: Nazareth Hall, 21211 W River Rd, Grand Rapids, OH 43522
Contact: Kelly Gonyer, (419)693-9050, gonyer.1@osu.edu

Roundtable Discussion of Current Agricultural Issues
June 11 7:00 AM-8:00 AM Hancock County
Roundtable discussion of current agricultural issues
Cost: $6. Breakfast included in Registration
Location: 50North Senior Center, 339 E. Melrose Avenue, Findlay, OH 45840
Contact: Ed Lentz, (419)422-3851, lentz.38@osu.edu

Pesticide Recertification & Fertilizer Recertification continued...

Fulton County
February 22 8:30 AM-12:30 PM
PAT Categories (CORE, 1, 2, 3, 4, 5, 6, 7) Plus 1 Hour Fertilizer Recertification (Category 15)
Cost: $40 for the complete program; $10 for Fertilizer Recertification only if registered before February 16. Light refreshments provided with Registration
Location: Fulton County Extension Office, 8870 SR 108, Suite A, Wauseon, OH 43567
Contact: Eric Richer, (419)337-9210, richer.5@osu.edu

Richland County
February 22 8:30 AM-12:30 PM
PAT Categories (CORE, 1, 2, 3, 4, 5, 6, 7) Plus 1 Hour Fertilizer Recertification (Category 15)
Cost: $40 if registered before February 15.
Location: Buckeye Community Center, 79 Noble Road, Shiloh, OH 44878
Contact: Mike Gastier, (419)668-8219, gastier.3@osu.edu

Sandusky County
March 9 8:30 AM-12:30 PM
PAT Categories (CORE, 1, 2, 3, 4, 5, 6, 7) Plus 1 Hour Fertilizer Recertification (Category 15)
Cost: $40 if registered before March 2.
Location: Luckey Farmers Inc. Corporate Office, 1200 W. Main St., Woodville, OH 43469
Contact: Allen Gahler, (419)334-6340, gahler.2@osu.edu

Erie County
March 12 5:30 PM-9:30 PM
PAT Categories (CORE, 1, 2, 3, 4, 5, 6, 7) Plus 1 Hour Fertilizer Recertification (Category 15)
Cost: $40 if registered before March 5.
Location: Ehove Career Center, 316 Mason Rd. W., Milan, OH 44846
Contact: Tim Malinich, (419)627-7631, malinich.1@osu.edu

Putnam County
March 12 8:00 AM-12:00 PM
PAT Categories (CORE, 1, 2, 3, 4, 5, 6, 7) Plus 1 Hour Fertilizer Recertification (Category 15)
Cost: $40 for the complete program; $10 for Fertilizer Recertification only if registered before March 9.
Location: Ottawa American Legion Hall, 218 W. Main Street, Ottawa, OH 45875
Register online at: www.putnam.osu.edu
Contact: Beth Scheckelhoff, (419)523-6294, scheckelhoff.11@osu.edu
Wood County
March 12                 5:30 PM-9:30 PM

PAT Categories (CORE, 1, 2, 3, 4, 5, 6, 7) Plus 1 Hour Fertilizer Recertification (Category 15)

**Cost:** $40 for the complete program; $10 for Fertilizer Recertification only if registered before March 5.

**Location:** Wood County Fairgrounds, Jr. Fair Building, 13800 W. Poe Rd., Bowling Green, OH 43402

**Contact:** Alan Sundermeier, (419)334-6340, sundermeier.5@osu.edu

---

Hardin County
March 13                  9:00 AM-2:00 PM

Lunch Buffet available, CORE 1, 2, 6

**Cost:** $40 for the complete program; $10 for Fertilizer Recertification only if registered before March 5. **Meal Option at an additional cost of $10**

**Location:** Henry’s Restaurant Banquet Room, 995 N. Detroit, Kenton, OH 43326

**Register online at** pested.osu.edu/Recert/topofohio

**Contact:** Mark Badertscher, (419)674-2297, badertscher.4@osu.edu

---

Van Wert County
March 13                 5:00 PM-9:00 PM

PAT Categories (CORE, 1, 2, 3, 4, 5, 6, 7) Plus 1 Hour Fertilizer Recertification (Category 15)

**Cost:** $40 for the complete program; $10 for Fertilizer Recertification only if registered before March 9. **Light refreshments provided with Registration**

**Location:** Delphos Eagles Club, 1600 E. 5th St., Delphos, OH 45833

**Contact:** Curtis Young, (419)238-1214, young.2@osu.edu

---

Henry County
March 15                 5:30 PM-9:30 PM

PAT Categories (CORE, 1, 2, 3, 4, 5, 6, 7) Plus 1 Hour Fertilizer Recertification (Category 15)

**Cost:** $40 for the complete program; $10 for Fertilizer Recertification only if registered before March 9. **Light refreshments provided with Registration**

**Location:** Henry County Senior Center, 203 Rohrs St., Napoleon, OH 43545

**Register online at** henry.osu.edu

**Contact:** Garth Ruff, (419)592-0806, ruff.72@osu.edu

---

Miscellaneous Ag Events

<table>
<thead>
<tr>
<th>Event Name</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardin County Ag Council (Series)</td>
<td>January 5</td>
<td>7:00 AM-8:30 AM</td>
<td>Hardin County</td>
</tr>
<tr>
<td>Hardin County Ag Council (Series)</td>
<td>February 2</td>
<td>7:00 AM-8:30 AM</td>
<td>Hardin County</td>
</tr>
<tr>
<td>Hardin County Ag Council (Series)</td>
<td>March 2</td>
<td>7:00 AM-8:30 AM</td>
<td>Hardin County</td>
</tr>
<tr>
<td>Hardin County Ag Council (Series)</td>
<td>April 6</td>
<td>7:00 AM-8:30 AM</td>
<td>Hardin County</td>
</tr>
<tr>
<td>Hardin County Ag Council (Series)</td>
<td>May 4</td>
<td>7:00 AM-8:30 AM</td>
<td>Hardin County</td>
</tr>
<tr>
<td>Hardin County Ag Council (Series)</td>
<td>June 1</td>
<td>7:00 AM-8:30 AM</td>
<td>Hardin County</td>
</tr>
<tr>
<td>Crawford Agribusiness Women’s Night</td>
<td>January 16</td>
<td>5:30 PM-9:30 PM</td>
<td>Crawford County</td>
</tr>
<tr>
<td>Crawford Agribusiness Women’s Night</td>
<td>January 25</td>
<td>5:30 PM-9:30 PM</td>
<td>Crawford County</td>
</tr>
<tr>
<td>Crawford Agribusiness Women’s Night</td>
<td>February 22</td>
<td>5:30 PM-9:30 PM</td>
<td>Crawford County</td>
</tr>
<tr>
<td>Crawford Agribusiness Women’s Night</td>
<td>March 22</td>
<td>5:30 PM-9:30 PM</td>
<td>Crawford County</td>
</tr>
<tr>
<td>Current Issues &quot;On the Farm&quot; (Series)</td>
<td>January 25</td>
<td>8:30 AM-9:30 AM</td>
<td>Putnam County</td>
</tr>
<tr>
<td>Current Issues &quot;On the Farm&quot; (Series)</td>
<td>January 26</td>
<td>8:30 AM-9:30 AM</td>
<td>Putnam County</td>
</tr>
<tr>
<td>Current Issues &quot;On the Farm&quot; (Series)</td>
<td>February 23</td>
<td>8:30 AM-9:30 AM</td>
<td>Putnam County</td>
</tr>
<tr>
<td>Current Issues &quot;On the Farm&quot; (Series)</td>
<td>March 23</td>
<td>8:30 AM-9:30 AM</td>
<td>Putnam County</td>
</tr>
<tr>
<td>Current Issues &quot;On the Farm&quot; (Series)</td>
<td>April 27</td>
<td>8:30 AM-9:30 AM</td>
<td>Putnam County</td>
</tr>
<tr>
<td>Current Issues &quot;On the Farm&quot; (Series)</td>
<td>May 25</td>
<td>8:30 AM-9:30 AM</td>
<td>Putnam County</td>
</tr>
<tr>
<td>Putnam County Ag Council</td>
<td>Series</td>
<td>8:00 AM-9:00 AM</td>
<td>Putnam County</td>
</tr>
<tr>
<td>Putnam County Ag Council</td>
<td>January 26</td>
<td>8:00 AM-9:00 AM</td>
<td>Putnam County</td>
</tr>
<tr>
<td>Putnam County Ag Council</td>
<td>February 23</td>
<td>8:00 AM-9:00 AM</td>
<td>Putnam County</td>
</tr>
<tr>
<td>Putnam County Ag Council</td>
<td>March 23</td>
<td>8:00 AM-9:00 AM</td>
<td>Putnam County</td>
</tr>
<tr>
<td>Putnam County Ag Council</td>
<td>April 27</td>
<td>8:00 AM-9:00 AM</td>
<td>Putnam County</td>
</tr>
<tr>
<td>Putnam County Ag Council</td>
<td>May 25</td>
<td>8:00 AM-9:00 AM</td>
<td>Putnam County</td>
</tr>
</tbody>
</table>
Horticulture continued …

Hydrangeas
May 1 6:30 PM-8:30 PM  Lucas County
People are intrigued by the diversity of hydrangeas for the landscape. This
workshop will cover the different types of hydrangea shrubs, care including
when to prune, and more about these flowering shrubs. Each participant
will take home a hydrangea of their own as part of the registration fee.
Cost: $30 if registered before April 17. Light refreshments provided with
Registration. Registrations will be accepted after February 1, 2018 on a first
come, first serve basis. Seating is limited to the first seventy-five paid
registrations.
Location: Toledo Botanical Garden, Conference Center, 5403 Elmer Drive,
Toledo, Ohio 43615
Register online at: information on lucas.osu.edu
Contact: Amy Stone, (419)578-6783, stone.91@osu.edu

Hydrangeas for Your Home
May 1 1:00 PM-3:00 PM  Putnam County
Join the Putnam County Master Gardeners in learning about the various
types of hydrangeas used in the Ohio landscape.
Cost: $30 if registered before April 27. No late registrations accepted. Light
refreshments provided with Registration. Participants receive a hydrangea plant
to take home and enjoy in their landscape. Seating is limited, register early.
Location: Putnam Co. Extension, 1206 East Second Street, Ottawa, OH 45875
Contact: Beth Scheckelhoff, (419)523-6294. scheckelhoff.11@osu.edu

Young Tree Training - Maintenance Practices For Young Plants That
Pay Off Big With Age!
May 23 7:00 PM-8:00 PM  Lucas County
Once woody plants are in the ground, some people walk away. Investing a
little time and energy in the landscape when plants are young will pay-off in
the long run. Come learn some tricks of the trade that will make your
plants love to be part of your landscape!
Cost: Free if registered before May 16
Location: Toledo Botanical Garden, Conference Center, 5403 Elmer Drive,
Toledo, Ohio 43615
Register online at: https://reservations.metroparkstoledo.com/programs/
Contact: Amy Stone, (419)578-6783, stone.91@osu.edu

Paulding County Master Gardener Plant Sale
May 18 & May 19  Open: Friday 7:30 AM – 5:00 PM, Sat. 7:30 AM – 12:00 PM
Join the Paulding County Master Gardener Volunteers at their 17th
annual plant sale. For sale: annuals, perennials, vegetables, house plants,
ornamentals, flowers, herbs and shrubs grown locally by our
volunteers.
Location: Paulding County Fairgrounds, 503 Fairground Drive, Paulding, OH
45879 (Sale in the Block Building)
Contact: Sarah Noggle, (419)399-8225, noggle.17@osu.edu

Pesticide Recertification & Fertilizer
Recertification continued…. Page 9

Hancock County  March 20  8:00 AM-12:00 PM
PAT Categories (CORE, 1, 2, 3, 4, 5, 6) Plus 1 Hour Fertilizer
Recertification (Category 15)
Cost: $40 for both Pesticide and Fertilizer Recertification; $35 for Pesticide
Only; $10 for Fertilizer only if registered before January 26. Light refreshments
provided with Registration
Location: Hancock County Agricultural Service Center, 7868 County Road
140, Findlay, OH 45840
Contact: Ed Lentz, (419)422-3851, lentz.38@osu.edu

Williams County  March 20  5:00 PM-9:00 PM
PAT Categories (CORE, 1, 2, 3, 4, 5, 6, 7) Plus 1 Hour Fertilizer
Recertification (Category 15); Fertilizer Recertification first hour (5:00 -
6:00 PM) followed by PAT.
Cost: $40 for the complete program; $10 for Fertilizer Recertification only if
registered before March 15. Dinner included in Registration
Location: Williams County Extension Office, 1425 East High Street, Bryan,
OH 43506
Register online at: https://williams.osu.edu/2018programs
Contact: John Schoenhals, (419)636-5608, schoenhals.2@osu.edu

Huron County  March 22  1:00 PM-5:00 PM
PAT Categories (CORE, 1, 2, 3, 4, 5, 6, 7) Plus 1 Hour Fertilizer
Recertification (Category 15)
Cost: $40 if registered before March 15.
Location: North Central Ag Dealer, 100 Industrial Drive, New London, OH
45851
Contact: Jason Hartschuh, (419)562-8731, hartschuh.11@osu.edu

Huron County  March 29  8:30 AM-12:30 PM
PAT Categories (CORE, 1, 2, 3, 4, 5, 6, 7) Plus 1 Hour Fertilizer
Recertification (Category 15)
Cost: $40 if registered before March 22.
Location: Huron County Extension
Office, 180 Milan Avenue, Norwalk, OH
44857
Contact: Mike Gastier, (419)668-8219,
gastier.3@osu.edu
New Pesticide Applicator Training

New Pesticide Applicator Training “Crash Course”
January 18  8:30 AM-12:30 PM  Wood County

Class is designed to prepare new private pesticide applicators to take the test for CORE (general safety for the applicator and the environment) and Category 1 (grain and cereal crops) or Industrial Vegetation (Category 5 - Commercial Applicators). Registration does not include study materials. Class size limited to 20 participants.

Cost: $35 (does not include study materials).
Location: Wood County Extension Office, 639 S, Dunbridge Road, Suite 1, Bowling Green, OH 43402
Contact: Alan Sundermeier, (419)334-6340, sundermeier.5@osu.edu

New Pesticide Applicator Training “Crash Course”
January 31  12:30 PM-4:30 PM  Hardin County

Class is designed to prepare new private pesticide applicators to take the test for CORE (general safety for the applicator and the environment) and Category 1 (grain and cereal crops). We will also share with you how to prepare for other categories that are available for certification. Additional personal preparation and study time is suggested.

Cost: $35 (includes books and refreshments) if registered before January 16.
Location: Hardin County Extension Office, 1021 W. Lima, Kenton, OH 43326
Contact: Mark Badertscher, (419)674-2297, badertscher.4@osu.edu

Pesticide Recertification & Fertilizer Recertification continued….

Hardin County
March 30  9:00 AM-2:00 PM

PAT Categories (CORE, 1, 2, 3, 4, 5, 6, 7) Plus 1 Hour Fertilizer Recertification (Category 15)

Cost: $40 for the complete program; $10 for Fertilizer Recertification only if registered before February 22. Light refreshments provided with Registration.

Location: Hardin County Extension Office, 1021 W. Lima, Kenton, OH 43326
Contact: Mark Badertscher, (419)674-2297, badertscher.4@osu.edu

Selling Food From Your Farm or Home
March 27  1:00 PM-5:00 PM  Defiance County

Topics: 10 Produce Practices for Food Safety, Q & A That Matters To You, Labeling & Packaging, Can and Can’t with Cottage Foods, Payment Options; Convenience and Security, for You or the Customer?, Marketing; Is It Education or Product Promotion?

Cost: Free if registered before March 20. Light refreshments provided with Registration.
Location: Defiance County Extension Office, 06879 Evansport Road, Defiance, OH 43512
Register online at: defiance.osu.edu
Contact: Bruce Clevenger, (419)782-4771, clevenger.10@osu.edu

Fertilizer Recertification continued….
Hort Hikes - Seasonal Walks at Toledo Botanical Garden
Multiple dates 6:00 PM-7:00 PM
Lucas County
Come out and enjoy an educational walk at the Toledo Botanical Garden (TBG). The monthly walk will highlight plants throughout the garden and include their seasonal interests - flowers, fruit, bark and more! It will be a great time to check out plants that you may want to consider for your own landscape. Walks will be held the 2nd Monday of the Month, except for June when the walk will be on the 3rd Monday. March 12, April 9, May 14, June 18, July 9, August 13, September 10, October 8, November 12.

Cost: Free
Location: Toledo Botanical Garden, 5403 Elmer Drive, Toledo, Ohio 43615 - meet at the Pioneer Cabin
Register online at https://reservations.metroparkstoledo.com/programs/
Contact: Amy Stone, (419)578-6783, stone.91@osu.edu

Art of Gardening Seminar
March 17 8:00 AM-3:30 PM Allen County
Gardening Seminar hosted by Allen County OSU Extension Master Gardener Volunteers - topics and presenters to be determined
Cost: $45 if registered before March 9, Lunch included in Registration, Register early as seminar sells out every year!
Location: OSU - Lima Campus, 124 Galvin Hall, 4240 Campus Drive, Lima, OH 45801
Contact: Allen County Master Gardeners, c/o Gretchen Staley, 407 E. Sycamore St., Columbus Grove, OH 45830 or call (419) 302-4234

Native Plants Seminar
March 22 9:00 AM-4:00 PM Hardin County
All day seminar with presenters on native trees, shrubs, and perennials. All gardeners welcome - Master Gardener Volunteers continuing education hours available
Cost: Cost to be determined - call office at 419-674-2297 if registered before March 14. No late registrations accepted. Lunch included in Registration
Location: Mid-Ohio Energy Cooperative - 1210 W. Lima Street, Kenton, OH 43326
Contact: Mark Badertscher, (419)674-2297, badertscher.4@osu.edu

New Pesticide Applicator Training "Crash Course"
March 29 9:00 AM-12:00 PM Putnam County
New applicator training will cover CORE and other categories as needed
Cost: $25 if registered before March 26.
Location: Putnam County Extension Office, 1206 East Second Street, Ottawa, OH 45875
Register online at www.putnam.osu.edu
Contact: Beth Scheckelhoff, (419)523-6294, scheckelhoff.11@osu.edu

New Pesticide Applicator Training "Crash Course"
March 29 8:00 AM-12:00 PM Van Wert County
Private pesticide license pre-test preparation and review.
Cost: $20 if registered before March 26. No late registrations accepted. Light refreshments provided with Registration
Location: Van Wert County Extension Office, 1055 S. Washington St., Van Wert, OH 45891
Contact: Curtis Young, (419)238-1214, young.2@osu.edu

Testing for Private and Commercial Pesticide Applicator License
Pre-register with the Ohio Department of Agriculture (Seating is limited, so please register early.) Web site-http://www.agri.ohio.gov (then click Programs, then Pesticide and Fertilizer) Or Phone 1-800-282-1955

January 11 Fulton County 10:00 AM
Fulton County Extension Office, 8870 SR 108, Suite A, Wauseon, OH 43567

January 22 Wood County 1:00 PM
Wood County Extension Office, 639 S, Dunbridge Road, Suite 1, Bowling Green, OH 43402

January 31 Defiance County 10:00 AM
Defiance County Extension Office, 06879 Evansport Road, Defiance, OH 43512

February 8 Fulton County 10:00 AM
Fulton County Extension Office, 8870 SR 108, Suite A, Wauseon, OH 43567
Testing for Private and Commercial Applicator License continued ...

<table>
<thead>
<tr>
<th>Date</th>
<th>County</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 15</td>
<td>Huron County</td>
<td>1:00 PM</td>
<td>Huron County Extension Office, 180 Milan Avenue, Norwalk, OH 44857</td>
</tr>
<tr>
<td>February 21</td>
<td>Defiance County</td>
<td>10:00 AM</td>
<td>Defiance County Extension Office, 06879 Evansport Road, Defiance, OH 43512</td>
</tr>
<tr>
<td>February 22</td>
<td>Richland County</td>
<td>1:00 PM</td>
<td>Buckeye Community Center, 79 Noble Road, Shiloh, OH 44878</td>
</tr>
<tr>
<td>February 26</td>
<td>Wood County</td>
<td>1:00 PM</td>
<td>Wood County Extension Office, 639 S, Dunbridge Road, Suite 1, Bowling Green, OH 43402</td>
</tr>
<tr>
<td>March 5</td>
<td>Wood County</td>
<td>1:00 PM</td>
<td>Wood County Extension Office, 639 S, Dunbridge Road, Suite 1, Bowling Green, OH 43402</td>
</tr>
<tr>
<td>March 8</td>
<td>Fulton County</td>
<td>10:00 AM</td>
<td>Fulton County Extension Office, 8870 SR 108, Suite A, Wauseon, OH 43567</td>
</tr>
<tr>
<td>March 15</td>
<td>Huron County</td>
<td>1:00 PM</td>
<td>Huron County Extension Office, 180 Milan Avenue, Norwalk, OH 44857</td>
</tr>
<tr>
<td>March 21</td>
<td>Defiance County</td>
<td>10:00 AM</td>
<td>Defiance County Extension Office, 06879 Evansport Road, Defiance, OH 43512</td>
</tr>
<tr>
<td>March 26</td>
<td>Wood County</td>
<td>1:00 PM</td>
<td>Wood County Extension Office, 639 S, Dunbridge Road, Suite 1, Bowling Green, OH 43402</td>
</tr>
<tr>
<td>March 29</td>
<td>Van Wert County</td>
<td>1:00 PM</td>
<td>Van Wert County Extension Office, 1055 S. Washington St., Van Wert, OH 45891</td>
</tr>
<tr>
<td>April 9</td>
<td>Wood County</td>
<td>1:00 PM</td>
<td>Wood County Extension Office, 639 S, Dunbridge Road, Suite 1, Bowling Green, OH 43402</td>
</tr>
<tr>
<td>April 12</td>
<td>Fulton County</td>
<td>10:00 AM</td>
<td>Fulton County Extension Office, 8870 SR 108, Suite A, Wauseon, OH 43567</td>
</tr>
<tr>
<td>April 23</td>
<td>Wood County</td>
<td>1:00 PM</td>
<td>Wood County Extension Office, 639 S, Dunbridge Road, Suite 1, Bowling Green, OH 43402</td>
</tr>
</tbody>
</table>

Horticulture continued ...

Master Gardener Volunteer Training
February 6-April 3  9:00 AM-4:00 PM  Lucas County  
Master Gardener Volunteer Training Class, 9 Weeks, February 6 - April 3, 2018 (Every Tuesday)  
Cost: Contact Amy Stone For Additional Details if registered before January 5.  
No late registrations accepted.  
Location: Toledo Botanical Garden, Conference Center, 5403 Elmer Drive, Toledo, Ohio 43615  
Contact: Amy Stone, (419)578-6783, stone.91@osu.edu

Landscaping With Clean Water On Your Mind
February 7  7:00 PM-8:00 PM  Lucas County  
Clean water is on everyone's mind. Come and learn what you can do in your own yard and garden to protect our water. Session highlights will include information on soil testing, fertilization to-dos and not to dos, rain gardens, and the benefits of trees. Go green, and we don't mean algae!  
Cost: Free if registered before February 1  
Location: Toledo Botanical Garden, Conference Center, 5403 Elmer Drive, Toledo, Ohio 43615  
Register online at https://reservations.metroparkstoledo.com/programs/  
Contact: Amy Stone, (419)578-6783, stone.91@osu.edu

Vegetable Gardening 101
March 2  10:00 AM-11:00 AM  Lucas County  
Interested in growing food for yourself or your family? Learn how to plan, plant and harvest veggies and fruits in 2018. We will cover container, raised bed and traditional in-the-ground methods. Green thumb or not, gardening can be rewarding!  
Cost: Free  
Location: Holland Branch of the Toledo Lucas County Public Library, 1032 S McCord Rd, Holland, OH 43528  
Register online at http://www.toledolibrary.org/events  
Contact: Amy Stone, (419)578-6783, stone.91@osu.edu

Master Gardener Volunteers Training Course
March 6-April 24  6:00 PM-9:00 PM  Allen County  
Master Gardener Volunteer Training Class, 15 sessions, March 6 - April 24, 2018. Must also attend 'Art of Gardening' Seminar as part of course on March 17 - dates and topics subject to change  
Cost: $150 if registered before February 19  
Location: OSU - Lima Campus, 124 Galvin Hall, 4240 Campus Drive, Lima, OH 45801  
Contact: Mark Badertscher, (419)674-2297, badertscher.4@osu.edu

Northwest Ohio Ag & Natural Resources Newsletter—Jan.2018
**Horticulture**

**Master Gardeners Present: Topics for In the Garden**

*Multiple dates 1:00 PM-2:00 PM  Putnam County*

Join the Putnam County Master Gardeners learn about timely topics and tips that can be used "In the Garden" January 25, February 22, March 22

**Cost:** Free and open to the public.

**Location:** Putnam County Extension Office, 1206 East Second Street, Ottawa, OH 45875

Register online at www.putnam.osu.edu

**Contact:** Beth Scheckelhoff, (419)523-6294, scheckelhoff.11@osu.edu

**Invasive Pests in the Landscape - ID and Management**

*January 29 7:00 PM-8:00 PM  Lucas County*

All plants aren’t created equally. Some pests can become so abundant they cause issues in the landscape. Come learn about some of these bad characters and what you can do to help rid your landscape of the invasives.

**Cost:** Free if registered before January 22.

**Location:** Toledo Botanical Garden, Conference Center, 5403 Elmer Drive, Toledo, Ohio 43615

Register online at https://reservations.metroparkstoledo.com/programs/

**Contact:** Amy Stone, (419)578-6783, stone.91@osu.edu

**New Master Gardener Training**

*February 1-March 3 6:00 PM-9:00 PM  Williams County*

Master Gardener Volunteer Training, 14 consecutive Thursday evenings, February 1-March 3.

**Cost:** Williams County residents: $65 per person or $95 or a couple for the entire class; All other counties $100/person if registered before January 22.

**Location:** Williams County Extension Office, 1425 East High Street, Bryan, OH 43506

Register online at https://williams.osu.edu/mgv2018

**Contact:** John Schoenhals, (419)636-5608, schoenhals.2@osu.edu

**Ohio State University Wood County Master Gardener Volunteer Series**

*6:00 PM-9:00 PM  Wood County*

February 3- To become a Master Gardener volunteer, you will have the opportunity to complete 50 hours of classroom training and make a difference in your community by donating hours of your time to service.

**Cost:** $235 if registered before December 1. No late registrations accepted.

If you would be interested in finding out more about being a part of this program, please contact: Gail Ritzler, Master Gardener Volunteer Coordinator at ritzler.2@osu.edu or 419-693-9050.

**Location:** Wood County Extension Office, 639 S, Dunbridge Road, Suite 1, Bowling Green, OH 43402

**Contact:** Alan Sundermeier, (419)334-6340, Sundermeier.5@osu.edu

---

**Testing for Private and Commercial Applicator License continued ...**

<table>
<thead>
<tr>
<th>Month</th>
<th>County</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 25</td>
<td>Defiance</td>
<td>10:00 AM</td>
<td>Defiance County Extension Office, 06879 Evansport Road, Defiance, OH 43512</td>
<td></td>
</tr>
<tr>
<td>May 21</td>
<td>Wood County</td>
<td>1:00 PM</td>
<td>Wood County Extension Office, 639 S, Dunbridge Road, Suite 1, Bowling Green, OH 43402</td>
<td></td>
</tr>
<tr>
<td>June 25</td>
<td>Wood County</td>
<td>1:00 PM</td>
<td>Wood County Extension Office, 639 S, Dunbridge Road, Suite 1, Bowling Green, OH 43402</td>
<td></td>
</tr>
<tr>
<td>July 23</td>
<td>Wood County</td>
<td>1:00 PM</td>
<td>Wood County Extension Office, 639 S, Dunbridge Road, Suite 1, Bowling Green, OH 43402</td>
<td></td>
</tr>
<tr>
<td>August 27</td>
<td>Wood County</td>
<td>1:00 PM</td>
<td>Wood County Extension Office, 639 S, Dunbridge Road, Suite 1, Bowling Green, OH 43402</td>
<td></td>
</tr>
<tr>
<td>September 24</td>
<td>Wood County</td>
<td>1:00 PM</td>
<td>Wood County Extension Office, 639 S, Dunbridge Road, Suite 1, Bowling Green, OH 43402</td>
<td></td>
</tr>
<tr>
<td>October 22</td>
<td>Wood County</td>
<td>1:00 PM</td>
<td>Wood County Extension Office, 639 S, Dunbridge Road, Suite 1, Bowling Green, OH 43402</td>
<td></td>
</tr>
<tr>
<td>November 19</td>
<td>Wood County</td>
<td>1:00 PM</td>
<td>Wood County Extension Office, 639 S, Dunbridge Road, Suite 1, Bowling Green, OH 43402</td>
<td></td>
</tr>
<tr>
<td>December 17</td>
<td>Wood County</td>
<td>1:00 PM</td>
<td>Wood County Extension Office, 639 S, Dunbridge Road, Suite 1, Bowling Green, OH 43402</td>
<td></td>
</tr>
</tbody>
</table>
### Williams County
- **February 12**
  - 6:00 PM-9:00 PM
  - New 3-hour Fertilizer Applicator Certification Training
  - **Cost:** $35 if registered before February 8. Light refreshments provided with Registration
  - **Location:** Williams County Extension Office, 1425 East High Street, Bryan, OH 43506
  - **Register online at:** https://williams.osu.edu/2018programs
  - **Contact:** John Schoenhals, (419)636-5608, schoenhals.2@osu.edu

### Wood County
- **March 14**
  - 6:00 PM-9:00 PM
  - New 3-hour Fertilizer Applicator Certification Training
  - **Cost:** $35 if registered before March 5.
  - **Location:** Wood County Fairgrounds, Jr. Fair Building, 13800 W. Poe Rd., Bowling Green, OH 43402
  - **Contact:** Alen Sundermeier, (419)334-6340, sundermeier.5@osu.edu

### Erie County
- **March 19**
  - 6:00 PM-9:00 PM
  - New 3-hour Fertilizer Applicator Certification Training
  - **Cost:** $35 if registered before March 12.
  - **Location:** Ehove Career Center, 316 Mason Rd. W., Milan, OH 44846
  - **Contact:** Tim Malinich, (419)627, 7631, malinich.1@osu.edu

### Putnam County
- **March 19**
  - 6:00 PM-9:00 PM
  - New 3-hour Fertilizer Applicator Certification Training
  - **Cost:** $35 if registered before March 16.
  - **Location:** Putnam County Extension Office, 1206 East Second Street, Ottawa, OH 45875
  - **Register online at:** www.putnam.osu.edu
  - **Contact:** Beth Scheckelhoff, (419)523-6294, scheckelhoff.11@osu.edu

### Van Wert County
- **April 4**
  - 6:00 PM-9:00 PM
  - New 3-hour Fertilizer Applicator Certification Training
  - **Cost:** $10, Please register before March 30. if registered before. Light refreshments provided with Registration
  - **Location:** Van Wert County Extension Office, 1055 S. Washington St., Van Wert, OH 45891
  - **Contact:** Curtis Young, (419)238-1214, young.2@osu.edu

---

### Natural Resources continued...

**Tree Walk at Toledo’s Woodlawn Cemetery and Arboretum**
- **Multiple dates**
  - 7:00 PM-8:30 PM
  - **Lucas County**
  - We will be walking among the trees. We will be talking tree identification, plant selection, common and not so common pests, proper pruning practices, and propagation - all highlighted by seasonal plant interests. MGV and OCVN credits.
  - **March 27, April 24, May 22, June 27, July 24, August 28, September 25, October 23, November 27**
  - **Cost:** Free
  - **Location:** Woodlawn Cemetery and Arboretum, 1502 West Central Avenue, Toledo, Ohio 43606
  - **Contact:** Amy Stone, (419)578-6783, stone.91@osu.edu

**Pond Clinic**
- **May 1**
  - 6:00 PM-8:30 PM
  - **Defiance County**
  - Topics: Healthy Ponds, Healthy Fish, Quality Water, Weed Management, Proper Application Methods of Products. Hot Dogs, Chips, Drinks provided.
  - **Cost:** Free if registered before April 27
  - **Dinner included in Registration**
  - **Location:** Oxbow Lake - ODNR Division of Wildlife, 6221 Trinity Rd, Defiance, Ohio
  - **Contact:** Bruce Clevenger, (419)782-4771, clevenger.10@osu.edu

**Williams/Defiance Woodlands and Wildlife**
- **June 28**
  - Have you wondered “what is that tree?” Own a woodland and want to know exactly what trees you have? The workshop gives participants in-depth training and practice on identifying trees using leaves and other characteristics. Workshop is classroom instruction and outdoor practicing.
  - **Cost:** $35, **Time:** 9:00am-3:00pm, **Location:** Defiance County Extension Office
  - **July 12**
  - What makes a woods attractive to wildlife? How do I diversify the wildlife in my woods? The meeting gives participants practices and ideas to make a woods a home for wildlife
  - **Cost:** Free, **Time:** 7:00-9:00pm, **Location:** Defiance County Extension Office
  - **July 26**
  - Most woodland owners will sell trees out of their woods only once in their lifetime - maybe twice! Make sure that the choice you make is good for you and the woods, both today and into the future. We will cover marketing options and best management practices for the sale
  - **Cost:** Free, **Time:** 6:00-9:00pm, **Location:** Williams County Extension Office
  - **Other:** See each session for cost. Register for the series or individual sessions.
  - **Lunch provided for Tree ID session only. Note location and time for each session. More information can be found at woodlandstewards.osu.edu
  - **Location:** Defiance County Extension Office: 06879 Evansport Road, Defiance, OH 43512 and Williams County Extension Office, 1425 East High Street, Bryan, OH 43506
  - **Contact:** Bruce Clevenger, (419)782-4771, clevenger.10@osu.edu or John Schoenhals, (419)636-5608, schoenhals.2@osu.edu
Introduction to Beekeeping
February 3 9:00 AM-3:00 PM Defiance County
Introductory class will be an overview of what to expect for the first year of beekeeping. Sponsored by the Black Swamp Beekeepers Association.
Topics include: costs, equipment, colony/hive details, pests and diseases, extracting honey, fall and winter preparedness, Q & A.
Cost: $50 if registered before January 19. No late registrations accepted.
Meal Option at an additional cost. $9.00 per person.
Location: Defiance County Extension Office, 06879 Evansport Road, Defiance, OH 43512
Register online at defiance.osu.edu
Contact: Bruce Clevenger, (419)782-4771, clevenger.10@osu.edu

Defiance County Beginning Beekeeper Internship (Series)
8:30 AM-12:00 PM
February 24- Getting & building equipment, bees, and proper location
March 24- Biology, pests, diseases, and management
April 28- Starts (nuc or package), splits, & bait boxes
May 26- Queen breeding, feeding & hive management
June 23- 1:00 PM - NW OH Beekeepers Assoc. Summer Workshop - Continental, OH
July 28- Honey processing, hive products & pests
August 25- Fall preparation, dearth & feeding
September 22- Winter preparation, feeding & stores
October 27- Inspections & making it through Winter
Cost: $125 individual / $200 couple if registered before January 19. No late registrations accepted. Includes the book “Bee-Sentials Field Guide” and 1 year Membership to Ohio State Beekeepers Assoc.
Location: Defiance County Extension Office, 06879 Evansport Road, Defiance, OH 43512
Register online at defiance.osu.edu
Contact: Bruce Clevenger, (419)782-4771, clevenger.10@osu.edu

Soil Health and Cover Crops Workshop (Series) Putnam County
January 4-8:30 am – 4:30pm. The soil health workshop will cover all aspects of soil health management, including practices to improve soil health, the use and management of cover crops, economic aspects, as well as hands-on demonstrations.
January 5- 8:30 am – 11:30 am. Soil Health and Cover Crops Workshop - Day 2
Cost: $35 if registered before December 31. No late registrations accepted.
Location: Putnam County Extension Office, 1206 East Second Street, Ottawa, OH 45875
Register online at www.putnam.osu.edu
Contact: Beth Scheckelhoff, (419)523-6294. scheckelhoff.11@osu.edu

Conservation Tillage Club (Series)
7:30 AM-9:00 AM Hardin County
January 9- CAUV/Property Taxes - Hardin County Auditor Mike Bacon
January 23- Grain Marketing Outlook - speaker to be announced
February 6- Climate and Weather - OSU Byrd Polar & Climate Research Center Senior Research Associate Aaron Wilson
February 20- Soybean Populations - OSU Extension Field Specialist, Agronomic Systems Elizabeth Hawkins
Cost: Free, Breakfast included in Registration, CCA Credits available
Location: Plaza Inn Restaurant Banquet Room, 491 S. Main, Mt. Victory, OH 43340
Contact: Mark Badertscher, (419)674-2297, badertscher.4@osu.edu

Cover Crops Roundtable (Series)
6:30 PM-9:00 PM Paulding County
January 9- PM Join us for a simple monthly round-table discussion of current cover crops topics. This series will NOT include sales presentations. The series is geared from farmers to farmers with OSU Extension serving as a moderator.
February 6- Cover Crops round-table February
Cost: Free, but RSVP required for refreshments if registered before January
8. Light refreshments provided with Registration
Location: Paulding County Extension Office, 503 Fairground Drive, Paulding, OH 45879
Register online at: paulding.osu.edu
Contact: Sarah Noggle, (419) 399-8225, noggle.17@osu.edu
### Agronomy & Soil Health continued ...

**Soybean Inputs-Focus on Payback**
*January 9*
8:30 AM-10:30 AM  Wood County
University Research and Recommendations will be discussed as a basis for Soybean input decisions for 2018; CCA Credits

**Cost:** Free if registered before January 8.
This Program is Same as Event in Hancock County on January 11, 2018

**Location:** Wood County Extension Office, 639 S, Dunbridge Road, Suite 1, Bowling Green, OH 43402

**Contact:** Alan Sundermeier, (419)334-6340, sundermeier.5@osu.edu

---

**Maximizing Manure Value**
*January 11*
6:30 PM-8:30 PM  Hancock County
University Research and Recommendations will be discussed as a basis for Soybean input decisions for 2018  CCA Credits

**Cost:** Free if registered before January 10.
This Program is Same as Event in Wood County on January 9, 2018

**Location:** Hancock County Extension Office, 7868 CR 140, Suite B, Findlay, OH 45840

**Contact:** Ed Lentz, (419)422-3851, lentz.38@osu.edu

---

**Corn-Soybean Day - Fulton County**
*January 19*
8:30 AM-4:00 PM  Fulton County
Ohio PAT credits: Core, 1, 2, 6 (3 hrs.) and 15 (1 hr.)
Michigan PAT credits: 4 hours
Commercial PAT credits: Core, 2A, 2C (3 hrs.) and 15 (1 hr.)
CCA credits: 4.5 hours CM, IPM, NM, PD

**Cost:** $35 Pre-registration (postmarked by January 10th) if registered before January 10, otherwise cost increases to $50 after January 10th or at the door, space permitting.  *Lunch included in Registration*

**Location:** Sauder Village, Founder’s Hall, 22611 SR 2, Archbold, OH 43502
Register online at [www.fulton.osu.edu](http://www.fulton.osu.edu)

**Contact:** Eric Richer, (419)337-9210, richer.5@osu.edu

---

### Livestock Production

**Northwest Ohio Livestock Producers Meetings (NWOLP) - (Series)**
12:00 PM-2:30 PM  Paulding County
Northwest Ohio Livestock Producers is a series of monthly meetings offered on current livestock topics.  Come to one or all sessions.

**January 10**  First meeting in the 2018 NWOLP meeting series.  2 CLM credits will be offered.
**February 7**  Second meeting in the 2018 NWOLP meeting series.  2 CLM credits will be offered.
**March 21**  Third event in the series of 2018 NWOLP meetings.  2 CLM credits will be offered.

**Cost:** Free if early bird registration is submitted if registered before five business days prior to date, otherwise cost increases to $20.  *Lunch included in Registration*

**Location:** Paulding County Extension Office, 503 Fairground Drive, Paulding, OH 45879

**Contact:** Sarah Noggle, (419)399-8225, noggle.17@osu.edu

---

**Pork Quality Assurance (PQA+) Certification**
*January 25*
6:30 PM-8:30 PM  Henry County
Adult PQA+ training and exam.  Open to any independent or contract swine grower needing new or re-certification for 2018.

**Cost:** Free if registered before January 22

**Location:** Henry County Extension Office, Hahn Center, Suite 302, 104 E. Washington Street, Napoleon, OH 43545

**Contact:** Garth Ruff, (419)592-8086, ruff.72@osu.edu

---

**Livestock Mortality Composting Certification**
*February 20*
1:00 PM-3:30 PM  Crawford County
At the end of this program, you will be a certified livestock mortality composter in Ohio.

**Cost:** $10 if registered before February 19

**Location:** Crawford County Courthouse, Lower Level Conference Room 112, East Mansfield Street, Bucyrus, OH 44820

**Contact:** Jason Hartschuh, (419)562-8731, hartschuh.11@osu.edu

---

**Introduction to Contract Swine Growing**
*March 1*
6:00 PM-9:00 PM  Henry County
Intended for folks interested in information on what it takes to become a contract swine grower.  Topics include siting, contracts, loan applications, manure management, and pork industry outlook.

**Cost:** Free if registered before February 23.  *Dinner included in Registration*

**Location:** Napoleon American Legion Annex, 500 Glenwood Ave, Napoleon, OH 43545

**Contact:** Garth Ruff, (419)592-8086, ruff.72@osu.edu

---
**Direct Marketing School (Series)**

9:30 AM - 3:30 AM  
Henry County

Direct Marketing School for anyone involved in producing, buying, selling produce, cottage goods, or animal products in NW Ohio.

- **February 23**: Branding, marketing, and building the local foods system.  
- **March 2**: Focus on specific regulations and strategies for marketing produce, cottage foods, and animal products. Day will conclude with a tour of local successful direct marketing operation.

**Cost**: $40 for 2 day school if registered before February 19. No late registrations accepted. *Lunch included in Registration*. Registration limited to 24 participants.

**Location**: Henry County Extension Office, Hahn Center, Suite 302, 104 E. Washington Street, Napoleon, OH 43545

**Contact**: Garth Ruff, (419)592-0805, ruff.72@osu.edu

**Farm Succession (Series)**

6:00 PM - 9:00 PM  
Wyandot County

- **February 27**: Overcoming Family Challenges to Farm Succession Planning  
  - University of Nebraska-Lincoln Retired Professor Dr. Ron Hanson (sponsored by Ag Credit)
  - **March 27**: Productive & Positive Conservations about Difficult Issues - OSU Extension Educators Emily Buxton Adams and/or David Marrison (sponsored by Ag Credit)

**Cost**: Free if registered before February 20. *Dinner included in Registration*. Register by calling Kenton Ag Credit at 419-675-2303

**Location**: Masters Building - 10171 State Hwy. 53 N, Upper Sandusky, OH 43351

**Contact**: Mark Badertscher, (419)674-2297, badertscher.4@osu.edu

**Henry County Farm Management Nights (Series)**

6:30 PM - 9:00 PM  
Henry County

- **March 12**: Farm outlook, ag law update from Peggy Hall, mission statements, and values.
- **March 19**: Costs of production for corn and soybeans with Eric Richer, followed by a session on grain marketing.

**Cost**: $10 if registered before March 6. Can be attended separately or in a two part series. *Light refreshments provided with Registration*

**Location**: Marion Twp. Volunteer Fire Department, 735 Edgerton St., Hamler, OH 43524

**Contact**: Garth Ruff, (419)592-0806, ruff.72@osu.edu

---

**Agromony & Soil Health continued ...**

---

**Wyandot County Ag Day**

January 25  
9:30 AM - 4:00 PM  
Wyandot County

Agricultural Grain Program with PAT CORE, 1, 2, 3, 4, 5, 6, 7 and 1 Hour Fertilizer Recertification

**Cost**: $30 if registered before January 20. *Lunch included in Registration*

**Location**: Sycamore Community Center, 3498 SR 103, Sycamore, OH 44882

**Contact**: Jason Hartschuh, (419)562-0731, hartschuh.11@osu.edu

**FIC Dealerships and Hancock OSU Extension Spring Expo**

January 31  
1:00 PM - 7:00 PM  
Hancock County

Invited speakers to discuss crop production issues, Lake Erie regulations, soil health, and grain marketing. Concurrent trade show during event.

**Cost**: Free if registered before January 24. *Dinner included in Registration*

**Location**: Owens Community College, 3200 Bright Road, Findlay, OH 45840

**Contact**: Ed Lentz, (419)422-3851, lentz.38@osu.edu

**Putnam County Agronomy Night**

February 5  
6:00 PM - 9:30 PM  
Putnam County

- OH PAT credits: 0.5 hr. CORE and 1 hr. Category 1

**Cost**: No cost to attend due to industry sponsors; PAT credits are $15. *Dinner included in Registration*

**Location**: Kalida K of C Hall, 718 Napoleon Rd., Kalida, OH 45853

**Register online at**: www.putnam.osu.edu

**Contact**: Beth Scheckelhoff, (419)523-6294, scheckelhoff.11@osu.edu

**Northern Ohio Crops Day**

February 8  
8:30 AM - 4:00 PM  
Sandusky County

Agricultural Grain Program

**Cost**: $50 if registered before January 31. *Lunch included in Registration*

**Location**: Old Zim's Wagon Shed, 1387 SR 590, Gibsonburg, OH 43431

**Contact**: Allen Gahler, (419)334-6340, gahler.2@osu.edu

**Northwest Ohio Crops Day**

February 9  
8:30 AM - 3:30 PM  
Henry County

Full day agronomy program intended for farmers, crop advisors, and retailers. Agenda features state and national specialists including Mark Loux, Anne Dorrance, and Barry Ward among others. Topics range from agronomic pest control from weather trends. CCA Credits will be offered.

**Cost**: $25 if registered before February 1, otherwise cost increases to $35 at the door. *Lunch included in Registration*

**Location**: Bavarian Haus, 3814 SR 18, Deshler, OH 43516

**Contact**: Garth Ruff, (419)592-0806, ruff.72@osu.edu

---

Northwest Ohio Ag & Natural Resources Newsletter—Jan.2018
Agronomy & Soil Health continued ...

Spring Nitrogen, Sulfur, and Other Nutrient Decisions for High Yield Wheat
February 13 10:00 AM-11:30 AM Hancock County
Speaker, Dr. Ed Lentz. CCA credits in Nutrient Management will be offered.
Cost: Free if registered before February 9.
Location: Hancock County Agricultural Service Center, 7868 County Road 140, Findlay, OH 45840
Contact: Ed Lentz, (419)422-3851, lentz.38@osu.edu

Nitrogen Stabilizers, Starters, Micros, Sulfur and Nutrient Enhancers - How Important Are They for Corn Production?
February 22 6:30 PM-8:00 PM Hancock County
Speaker: Dr. Ed Lentz. CCA credits available for Nutrient Management.
Cost: Free if registered before February 19.
Location: Hancock County Agricultural Service Center, 7868 County Road 140, Findlay, OH 45840
Contact: Ed Lentz, (419)422-3851, lentz.38@osu.edu

Farm Management Continued . . .

Computerized Farm Record Keeping Workshop with Quicken® (Series) Must attend both sessions
February 20–Quicken® overview, Data entry that makes useful Reports.
February 27- Reports, Income & Expenses by Enterprise, Farm and Across Years, Reconcile, Data Management and Analysis.
Cost: $75 per farm (up to 2 people) if registered before February 6. No late registrations accepted.
Registration is based upon the farm business and allows 2 people to attend. Class size is limited to 20 people/farms.
Please call with additional questions.
Location: Paulding County Extension Office, 503 Fairground Drive, Paulding, OH 45879
Register online at paulding.osu.edu
Contact: Sarah Noggle, (419)399-8225, noggle.17@osu.edu

Grain Marketing Tools and Commodity Outlook
February 20 6:30 PM-8:30 PM Williams County
Jim Byrne of Byrne Agricultural Marketing, a full-service commodity brokerage, will provide an update on ag commodity markets, including South American weather, spring planting intentions, and price target ideas. An overview of hedging and futures/options will also be discussed. Bring your questions and learn what tools are available to help manage price risk for the upcoming year.
Cost: Free if registered before February 15. Light refreshments provided with Registration.
Location: Williams County Extension Office, 1425 East High Street, Bryan, OH 43506
Contact: John Schoenhals, (419)636-5608, schoenhals.2@osu.edu

Agricultural Grain Program
March 1 3:30 PM-9:00 PM Crawford County
Agricultural Grain Program with PAT CORE, 1, 2, 3, 4, 5, 6, 7 and 1 Hour Fertilizer Re-certification
Cost: $50 if registered before February 22. Dinner included in Registration.
Location: Wayside Chapel, 2341 Kerssetter Rd., Bucyrus, OH 44820
Contact: Jason Hartschuh, (419)562-8731, hartschuh.11@osu.edu
Planning for the Future of Your Farm
February 5 9:30 AM-4:00 PM Williams County
Is your farming operation poised for success for many years in the future? Interested in bringing the next generation onto the farm or desire to learn about the tools available for use in estate planning and retirement strategies? This program will help answer these questions and more. Featured speakers include Robert Moore of the Wright & Moore Law Company, and Peggy Hall and David Marrison of OSU Extension.

Cost: $10 if registered before January 26. Lunch included in Registration
Location: Williams County Extension Office, 1425 East High Street, Bryan, OH 43506
Register online at https://williams.osu.edu/2018programs
Contact: John Schoenhals, (419)636-5608, schoenhals.2@osu.edu

Farm Management Series - Fulton County (Series)
9:00 AM-3:00 PM Fulton County
February 6- Transition & Estate Planning: key transition questions to answer, legal structures and issues, business planning, difficult discussions, etc.
February 13- Financial Planning: Preparing good farm financial statements, handling farm financial stress, financial advisory panel, MS Excel tips. Please bring your own laptop if possible.
February 20- Production Planning: Outlook for inputs, enterprise budgeting, cost of production, land issues. Bring a laptop if possible.
February 27- Taking Your Farm a Different Direction: non-GMO production, organic transition, ag tourism, niche livestock or crops.

Cost: $60 for the series or $20 for one session. If registered before February 1, otherwise cost increases to $70 for the series or $25 per session. Lunch included in Registration
Location: Fulton County Extension Office, 8870 SR 108, Suite A, Wauseon, OH 43567
Register online at www.fulton.osu.edu
Contact: Eric Richer, (419)337-9210, richer.5@osu.edu

Conservation Tillage Conference (CTC)
March 6-7 8:00 AM-6:00 PM Hardin County
March 6- Lunch Included, CCA and CLM Credits
March 7- Lunch Included, CCA and CLM Credits
Cost: $65/day or $85/both days if registered before February 26, otherwise cost increases to $80/day or $105/both days. Lunch included in Registration
Location: Ohio Northern University, McIntosh Center, 402 W. College, Ada, OH 45810
Register online at ctc.osu.edu, also see: Conservation Tillage & Technology Conference - Facebook
Contact: Mark Badertscher, (419)674-2297, badertscher.4@osu.edu

Williams County Agronomy Night
March 12 5:30 PM-8:30 PM Williams County
A variety of speakers will discuss weeds management (with an emphasis on marestail, waterhemp, and Palmer amaranth), corn and soybean fertility (with an emphasis on sulfur and micronutrients), Western Bean Cutworm, and more. CCA Credits (NM: 1, CM: 1, IPM: 0.5) will be available.

Cost: Free if registered before March 5. Dinner included in Registration
Location: Williams County Extension Office, 1425 East High Street, Bryan, OH 43506
Register online at https://williams.osu.edu/2018programs
Contact: John Schoenhals, (419)636-5608, schoenhals.2@osu.edu

Agronomy Day (with 1 hour Fertilizer Recertification)
March 22 9:00 AM-3:30 PM Van Wert County
Fertilizer Recertification during the Ag Day Program
Cost: $10 if registered before March 16. Lunch included in Registration
Location: Van Wert County Extension Office, 1055 S. Washington St., Van Wert, OH 45891
Contact: Curtis Young, (419)238-1214, young.2@osu.edu
**Farm Business Management Series**  
9:30 AM-11:30 AM  
Paulding County

*January 11* - Farm Financial Stress Strategies, Addressing the Family Living Expense in your Farm Budget; Healthcare Options when you are farming full time or part-time; Addressing the Healthcare tax options  
*February 1* - Topics will be Best Management Practice for Farm Leases and Cash Rental Agreements; Robert Moore of Moore & Wright will present a session on LLCs  
*February 8* - Enterprise Budgets, Calculating the Costs of Production, Farm Income Statement: Cash vs Accrual, Lender/Finance Advisory Panel Q & A

**Cost:** $60 for the series or $25 for one session. if registered before January 5  
**Light refreshments provided with Registration**  
**Location:** Paulding County Extension Office, 503 Fairground Drive, Paulding, OH 45879  
**Contact:** Sarah Noggle, (419)399-8225, noggle.17@osu.edu

---

**2018 Farm Outlook Meeting**  
6:00 PM-9:00 PM  
Defiance County

*January 29*  
Grain Markets - Matt Roberts, Kernmantle Group  
Examining the Ohio Farm Economy - Barry Ward, Ohio State University Extension  
Global Economy - Ian Sheldon, Ohio State University, Ag, Env, Dev Economics  

**Cost:** $10 if registered before January 22, otherwise cost increases to $20.  
**Dinner included in**  
**Location:** Jewel Community Center, 7900 Independence Road, Defiance, OH 43512  
**Register online at:** defiance.osu.edu, Payment to OSU Extension Defiance County Office: check, cash or credit card.  
**Contact:** Bruce Clevenger, (419)782-4771, clevenger.10@osu.edu

---

**Farmer’s Agricultural Income Tax Webinar**  
10:00 AM -12:00 PM  
On-line  
*January 29*  
Topics to be covered include: Income and Deductions, Transfer of Farm Assets, Farm Employees, Self-employment Tax and Social Security Benefits, Miscellaneous Ag Tax Issues  

**Cost:** $35  
**Register online at:** go.osu.edu/taxschools  
**Contact:** Julie Moose, (614)292-2433, moose.14@osu.edu

---

**Computerized Farm Record Keeping Workshop with Quicken® (Series)**  
9:30 AM-12:00 PM  
Defiance County

Hands-on, 2 sessions, computer and 2018 Quicken Deluxe software provided during workshop, take home training manual provided.  
*January 31* - Quicken® overview, Data entry that makes useful Reports.  
*February 7* - Reports, Income & Expenses by Enterprise, Farm and Across Years, Reconcile, Data Management and Analysis.  

**Cost:** $75 per farm (up to 2 people) if registered before January 24. No late registrations accepted. Limited seating for 10 Farms  
**Location:** Defiance County Extension Office, 06879 Evansport Road, Defiance, OH 43512  
**Register online at:** defiance.osu.edu  
**Contact:** Bruce Clevenger, (419)782-4771, clevenger.10@osu.edu

---

**Annie’s Project Retreat**  
February 2-4  
Champaign County

*February 2 - 4:30 pm: Registration; Introduction, Real Colors, Family and Business Communication*  
*February 3- 7:30 am - 8:30 pm, Farm Business Planning; Mission statement and goal setting, developing a business plan, balance sheets and credit scores. Retirement and Farm Transition; Preparing for retirement, farm transition and succession planning.  
*February 4 - 8:00 am - 11:00 am, Legal Liability; Liability issues, contracts, leases, and program evaluation.*  

**Cost:** $95 per participant if registered before January 19. No late registrations accepted. All lodging, materials and meals are included. Please bring bedding and towels. Make checks payable to: OSU Extension. Mail registration & check to: Champaign County Extension, 1512 South US Hwy 68, Suite B100, Urbana, OH 43078.  
**Location:** Western Buckeye Christian Camp, 5455 Roeth Rd., Houston, OH 45333  
**Register online at:** https://champaign.osu.edu/sites/champaign/files/imce/2018%20Annie%20Retreat%20Western.pdf  
**Contact:** Amanda Douridas, (937)484-1526, douridas.9@osu.edu