

**CFAES**

# **Agriculture & Natural Resources Newsletter**

**Ohio - Northwest Region**

# **2023**



**THE OHIO STATE UNIVERSITY**

COLLEGE OF FOOD, AGRICULTURAL,  
AND ENVIRONMENTAL SCIENCES

Thank you for viewing the content for the NW Ohio Newsletter. Please note that the offices below will do their best to update you on events as they could change in 2023. To ensure an event is correct, please call or email the county or person where the program is being coordinated.

Allen County  
<http://allen.osu.edu>  
(419)879-9108

Defiance County  
Don Hammersmith  
<http://defiance.osu.edu>  
(419)782-4771  
[hammersmith.4@osu.edu](mailto:hammersmith.4@osu.edu)

Fulton County  
<http://fulton.osu.edu>  
(419)337-9210

Hancock County  
<http://hancock.osu.edu>  
Ed Lentz  
(419)422-3851  
[lentz.38@osu.edu](mailto:lentz.38@osu.edu)

Hardin County  
<http://hardin.osu.edu>  
Mark Badertscher  
(419)674-2297  
[badertscher.4@osu.edu](mailto:badertscher.4@osu.edu)

Henry County  
<http://henry.osu.edu>  
Alan Leininger  
(419)592-0806  
[leininger.17@osu.edu](mailto:leininger.17@osu.edu)

Lucas County  
<http://lucas.osu.edu>  
Amy Stone  
(419)574-0986  
[stone.91@osu.edu](mailto:stone.91@osu.edu)

Paulding County  
<http://paulding.osu.edu>  
Sarah Noggle  
(419)399-8225  
[noggle.17@osu.edu](mailto:noggle.17@osu.edu)

Putnam County  
<http://putnam.osu.edu>  
Beth Scheckelhoff  
(419)523-6294  
[scheckelhoff.11@osu.edu](mailto:scheckelhoff.11@osu.edu)

Van Wert County  
<http://vanwert.osu.edu>  
Curtis Young  
(419)238-1214  
[young.2@osu.edu](mailto:young.2@osu.edu)

Williams County  
<http://williams.osu.edu>  
(419)636-5608

Wood County  
Nick Eckel  
<http://wood.osu.edu>  
(419)354-9050  
[eckel.21@osu.edu](mailto:eckel.21@osu.edu)

### Water Quality Team

Fulton, Williams, and Lucas County  
Courtney Krieger  
(419)250-8249  
[kreiger.117@osu.edu](mailto:kreiger.117@osu.edu)

Paulding, Defiance, and Van Wert County  
Rachel Cochran  
(567)344-5016  
[cochran.474@osu.edu](mailto:cochran.474@osu.edu)

Sandusky, Seneca, Erie, Wyandot, and Crawford County  
Matthew Romanko  
(567)342-7095  
[romanko.7@osu.edu](mailto:romanko.7@osu.edu)

Henry, Wood, and Ottawa County  
Amber Emmons  
(419)796-1404  
[emmons.118@osu.edu](mailto:emmons.118@osu.edu)

Putnam, Hancock, and Hardin County  
Paige Garrabrant  
(419)210-0633  
[garrabrant.42@osu.edu](mailto:garrabrant.42@osu.edu)

Auglaize, Mercer, and Allen County  
Open Position

## Thank You

The NW Ohio Agriculture newsletter is distributed to Northwest Ohio pesticide applicators and fertilizer certificate holders, regardless of current license/certificate status. Our Extension Offices in NW Ohio are proud to serve our constituents across the state. Thank you for your support of our offices. We hope you partner with us to fit our mission: Ohio State University Extension Agriculture and Natural Resources empowers Ohio’s agriculture and natural resources communities, provides outreach and education based on unbiased research and cultivates relationships to strengthen the economic viability and quality of life for Ohioans.

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## *Happy Holidays from OSU Extension*

Don't forget to check out your County Extension Office website for information on programs published after this newsletter including other program areas such as Community Development, Family & Consumer Sciences, and 4-H Youth Development. We appreciate the continued support our County Commissioners from across the state.

# Ohio Private Pesticide Applicator's Recertification/License Categories

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

## **CORE**

Every licensed pesticide applicator must have the CORE section as part of their training for using pesticides legally and safely.

## **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 future fruit production; tree crops produced for use as Christmas trees or their utilitarian value; 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 the 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 the categories (1-6).

# Private Pesticide Applicator Training (PAT) / License Re-certification and Fertilizer Applicator Re-certification Training (FACT) in Northwest Ohio

## General Statement:

Private Pesticide re-certification will cover options to re-certify at each location in the areas of CORE, Category 1, 2, 3, 4, 5, 6, and 7. Licensed private pesticide applicators in Ohio have two options to keep their license current: 1.) Attend 3 hours of approved re-certification training sessions during the 3-year window – OR -- 2.) Retest via ODA every three years.

The 3-hour re-certification must include 1 hour (minimum) of CORE + ½ hour (minimum) of credit in every category on the license + additional training in any category of approved pesticide applicator training = 3 total hours (minimum) of re-certification training.

Fertilizer re-certification (Category 15) requires a 1-hour training every three years to keep the certificate current.

**Both private pesticide and fertilizer re-certification must be completed by March 31, 2023.**

## Cost:

Fertilizer re-certification education training \$10. Pesticide re-certification education is \$35. Combo re-certification training is \$45 (Unless noted by the county.) **Payment options differ by training re-certification location and class type that is chosen (below).**

***Please note: The educational class fee is a different, separate fee from the ODA renewal fee. An applicator pays the Ohio Department of Agriculture \$30 every three years to keep your current license/certificate.***



# Private Pesticide Applicator Training (PAT) / Fertilizer Applicator Re-certification Training (FACT)

## PAULDING COUNTY

January 31

**Type:** In-person

**Fertilizer Re-certification:** 8:30 AM-9:30 AM

**Pesticide Re-certification:** 9:45 AM-12:45 PM

**Description:** Pre-registration is mandatory. Spots are limited. No walk-ins.

**RSVP Deadline:** Register by January 25.

**Event Registration:** Pre-registration is required. Light snacks are included in the registration.

**Link to registration:**

<http://go.osu.edu/pauldinganr2023>

**Cost:** PAT \$35; FERT \$10; Combo \$45

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

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

## DEFIANCE COUNTY

February 23

**Type:** In-person

**Fertilizer Re-certification:** 1:00 PM-2:00 PM

**Pesticide Re-certification:** 2:00 PM-5:00 PM

**Description:** Pre-registration is mandatory. Spots are limited. No walk-ins.

**RSVP Deadline:** Register by February 16.

**Event Registration:** Pre-registration is required. Light snack included in registration.

**Link to registration:** <http://defiance.osu.edu>

**Cost:** PAT \$35; FERT \$10; Combo \$45

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

**Contact:** Don Hammersmith, (419)782-4771, [hammersmith.4@osu.edu](mailto:hammersmith.4@osu.edu) or Sarah Noggle, (419)399-8225, [noggle.17@osu.edu](mailto:noggle.17@osu.edu)

## PUTNAM COUNTY

February 6

**Type:** In-person

**Fertilizer Re-certification:** 5:00 PM-6:00 PM

**Pesticide Re-certification:** 6:00 PM -9:00 PM

**Description:** Pre-registration is mandatory. Spots are limited. No walk-ins.

**Event Registration:** Pre-registration is required. Light snacks are included in the registration.

**Link to registration:** <http://putnam.osu.edu>

**Cost:** PAT \$35; FERT \$10; Combo \$45

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

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

## HARDIN COUNTY

March 6

**Type:** In-person

**Fertilizer Re-certification:** 1:00 PM-2:00 PM

**Pesticide Re-certification:** 9:00 AM-12:00 PM

**Description:** Pre-registration is mandatory. Spots are limited. No walk-ins.

**RSVP Deadline:** Register by February 27.

**Event Registration:** Pre-registration is required. Meal provided at extra cost. Bring your Ohio Pesticide/Fertilizer Applicator card. Class is limited to the first 50 registrants.

**Link to registration:**

<https://go.osu.edu/hardinpat-fact>

**Cost:** PAT \$35; FERT \$10; Combo \$45

**Location:** Plaza Inn Restaurant, 491 S. Main, Mt. Victory, OH 43340

**Contact:** Mark Badertscher, (419)767-6037, [badertscher.4@osu.edu](mailto:badertscher.4@osu.edu)

## WILLIAMS COUNTY

**March 9**

**Type:** In-person

**Fertilizer Re-certification:** 1:00 PM-2:00 PM

**Pesticide Re-certification:** 2:15 PM-5:30 PM

**Description:** Pre-registration is mandatory.

Spots are limited. No walk-ins.

**RSVP Deadline:** Register by March 3.

**Event Registration:** Pre-registration is required.

**Link to registration:**

<https://go.osu.edu/williamspat2023>

**Cost:** PAT \$35; FERT \$10; Combo \$45

**Location:** Edon Firehall, 201 S Michigan St, Edon, OH 43518

**Contact:** Extension Office, (419)337-9210

## WOOD COUNTY

**March 21**

**Type:** In-person

**Fertilizer Re-certification:** 5:00 PM-6:00 PM

**Pesticide Re-certification:** 6:00 PM-9:00 PM

**Description:** Pre-registration is mandatory.

Spots are limited. No walk-ins.

**RSVP Deadline:** Register by March 14.

**Event Registration:** Pre-registration is required. Light snack included in registration.

**Registration link:** Call the office to register.

**Cost:** PAT \$35; FERT \$10; Combo \$45

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

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

## PUTNAM COUNTY

**March 13**

**Type:** In-person

**Fertilizer Re-certification:** 8:00 AM-9:00 AM

**Pesticide Re-certification:** 9:00 AM-12:00 PM

**Description:** Pre-registration is mandatory.

Spots are limited. No walk-ins.

**Event Registration:** Pre-registration is required. Light snack included in registration.

**Link to registration:** <http://putnam.osu.edu>

**Cost:** PAT \$35; FERT \$10; Combo \$45

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

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

## FULTON COUNTY

**March 23**

**Type:** In-person

**Fertilizer Re-certification:** 8:00 AM-9:00 AM

**Pesticide Re-certification:** 9:15 AM-12:15 PM

**Description:** Pre-registration is mandatory.

Spots are limited. No walk-ins.

**RSVP Deadline:** Register by March 17.

**Event Registration:** Pre-registration is required.

**Link to registration:**

[www.go.osu.edu/fcpat2023](http://www.go.osu.edu/fcpat2023)

**Cost:** PAT \$35; FERT \$10; Combo \$45

**Location:** Fulton County Extension Office, 8770 SR 108, Suite A, Wauseon, OH 43567

**Contact:** Maddie Newcomb, (419)337-9210, [newcomb.84@osu.edu](mailto:newcomb.84@osu.edu)

## HARDIN COUNTY

March 28

**Type:** In-person – Make-Up/Specialty Video Training

**Fertilizer Re-certification:** 1:00 PM-2:00 PM

**Pesticide Re-certification:** 9:00 AM-12:00 PM

**Description:** Pre-registration is mandatory. Spots are limited. No walk-ins.

**RSVP Deadline:** Register by March 21.

**Event Registration:** Pre-registration is required. Light snacks are included in the registration. Bring your Ohio Pesticide/Fertilizer Applicator card.

**Registration link:** Call the office to register.

**Cost:** PAT \$35; FERT \$10; Combo \$45

**Location:** Hardin County Extension Office, 1021 W. Lima, Kenton, OH 43326

**Contact:** Mark Badertscher, (419)767-6037, [badertscher.4@osu.edu](mailto:badertscher.4@osu.edu)

## HENRY COUNTY

March 29

**Type:** In-person

**Fertilizer Re-certification:** 5:00 PM-6:00 PM

**Pesticide Re-certification:** 6:00 PM-9:00 PM

**Description:** Pre-registration is mandatory. Spots are limited. No walk-ins.

**RSVP Deadline:** Register by March 24.

**Event Registration:** Pre-registration is required. Light snacks are included in the registration. Bring your Ohio Pesticide/Fertilizer Applicator card. Specialty categories are offered upon request. This will be a video make-up class with limited instruction.

**Registration link:** <https://go.osu.edu/henryanr2023>

**Cost:** PAT \$35; FERT \$10; Combo \$45

**Location:** Northwest State Community College, Voinovich Auditorium, 22600 SR 34, Archbold, OH 43502

**Contact:** Alan Leininger, (419)592-0806, [leininger.17@osu.edu](mailto:leininger.17@osu.edu)



# Commercial Pesticide Applicators

## General Information:

A commercial applicator applies pesticides:

- for hire; or
- on publicly accessible sites such as golf courses, apartment complexes, restaurants, schools; or
- while working for a government agency

Commercial applicators must be licensed to use both restricted and general-use products.

## Category List-Commercial Pesticide Applicator Categories:

- Category 1 - Aerial Pest Control - application of pesticide via aircraft. (As of 10/20/2017, an additional category is no longer needed)
- Category 2 - Agricultural Pest Control (2a - Agronomic Pest, 2b - Horticultural Pest, 2c - Agricultural Weed Control, 2d - Seed Treatment, 2e - Tobacco Sucker Control, 2f - Soil Fumigation)
- Category 3a - General Aquatic Pest Control, 3b - Boat Antifoulant, 3c - Sewer Root Control
- Category 4 - Forest Pest Control (4a - General Forest Pest Control and 4b - Wood Preservation)
- Category 5 - Industrial Vegetation
- Category 6 - Ornamental Plant & Shade Tree Pest Control (6a - General Ornamental Pest Control, 6b - Interior Plantscape, 6c - Ornamental Weed Control, 6d - Greenhouse Pest Control)
- Category 7 - Vertebrate
- Category 8 - Turf
- Category 9 - Animal Pest Control
- Category 10 - Domestic, Institutional, Structural & Health Related Pest Control (10a - General Pest Control, 10b – Termite, 10c – Fumigation, 10d - Mosquito, House Fly and Other Vector Control)
- Category 11 - Specialized pest control
- Category 12 - Wood Destroying Insect Diagnostic Inspection - the examination of a structure at the request of any party involved in a contemplated real estate transaction for a wood-destroying insect inspection. Other requirements with this category: attendance at a 5-hour Wood Destroying Insect Inspection Training Program.
- Additional information and detailed descriptions for each category can be found at: <https://pested.osu.edu/catlist>

## Commercial Pesticide Applicator Recertification

All registration, details, and categories offered information can be found at:

<https://pested.osu.edu/recert2023>. Please check the categories offered via the website when registering. Not all categories are covered at every site.

### In-Person Classes

- **January 12, 2023 - Akron (John S. Knight Center)**
- **January 25, 2023 - Cincinnati Area (New Location - Oasis Conference Center)**
- **February 21, 2023 - Columbus (New Location - Fawcett Center)**

### In-Person Specialized Classes

- **February 14, 2023; Findlay, Ohio – Agriculture and Horticulture Field Crops**
- **February 15, 2023; Findlay, Ohio – Landscape, Turf, and Ornamental**

### Live Online Webinars

- **Feb 28, 2023 - Ag. and Horticultural Field Crop**
- **March 2, 2023 - Landscape, Turf, and Ornamental**
- **March 7, 2023 - Industrial Veg, Natural Areas and Aquatic**
- **March 9, 2023 - Structural and Vertebrate Pests**
- **March 1, 2023 - Agricultural Fertilizer Recertification**

Self-Paced Re-Certification • **Open January 23 – September 30**

# New Pesticide Applicator Training

Hardin County • January 19

12:00 PM-4:00 PM

**Class Type:** In-person

**Description:** New Private Pesticide Applicator Class is for individuals preparing to take the ODA private pesticide applicator test for the first time. Topics include CORE and Category 1 (Grain Crops), with books included. Additional study before testing is recommended.

**Location:** Hardin County Extension Office, 1021 W. Lima, Kenton, OH 43326

**Cost:** \$30 which includes books.

**Registration information:** RSVP deadline, January 5. Light snacks are included in the registration.

**Registration link:** Please call the office to register.

**Contact:** Mark Badertscher, (419)767-6037, [badertscher.4@osu.edu](mailto:badertscher.4@osu.edu)

Paulding County • February 16

9:30 AM-12:00 PM

**Class Type:** In-person

**Description:** This new Pesticide Applicator “Crash Course” class is designed to help participants prepare for taking the Ohio private applicator CORE and Category 1 exams administered by the Ohio Department of Agriculture. Study guides need to be purchased separately. Registration will provide handouts and other resources. An additional study by the participants is encouraged beyond the time spent in class.

Although this class will help prepare participants in CORE (applying pesticides properly and safely) and Category 1 (Grain & Cereal Crops), other resources will be made available for additional study in other certification categories. Participants can elect to test with ODA following the program on another date.

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

**Cost:** \$25

**Registration information:** RSVP is mandatory with the deadline, of January 12. Seating is limited. No walk-ins are available. Light snacks are included in the registration.

**Registration link:** Please call the office to register.

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

Putnam County • April 11

10:00 AM-12:00 PM

**Class Type:** In-person

**Description:** Crash course for those interested in taking the ODA pesticide applicator exam. Participants can elect to test with ODA following the program at 1:00 pm.

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

**Cost:** \$25

**Registration information:** RSVP is mandatory with the deadline of April 3.

**Link to registration:** <http://putnam.osu.edu>

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



# New FACT (Fertilizer Applicator Certification Training)

## Who needs this training?

FACT is the initial 3-Hour Fertilizer Certification class for farmers and applicators who apply fertilizer. No difference exists between a commercial or private fertilizer applicator. This certification is required if you apply fertilizer (including manure) to more than 50 acres used for agricultural production grown primarily for sale.

Fertilizer, deemed under this certification, is any substance containing nitrogen, phosphorus, potassium, or other plant nutrients in a dry or liquid formulation. All application types (broadcast, side dress, sub-surface, knifing, etc.) are included in this certification requirement. The only application exempted is start-up fertilizers that are applied through a planter. For this certification, lime and limestone are not considered fertilizers. Because this is a certification, attendees may be under the age of 18.

This certification is required if you apply fertilizer (other than manure) to more than 50 acres of agricultural production grown primarily for sale. This includes 28% N. If you hire a co-op or other custom applicator, you do not need certification. Additionally, you must have a fertilizer certification, Certified Crop Adviser (CCA), OR Certified Livestock Manager (CLM) to apply manure from any Concentrated Animal Feeding Facility (CAFF). You must either take the Fertilizer Applicator Test offered through the Ohio Department of Agriculture OR attend a three-hour fertilizer certification training such as this class to become certified.

**The classes below provide attendees with Ohio fertilizer applicator certification without the need for testing by ODA for farmers, employees, and/or applicators.**

### Hardin County • February 10

**1:00 PM-4:00 PM**

**Location:** Hardin County Extension Office,  
1021 W. Lima, Kenton, OH 43326

**Cost:** \$30

**RSVP Deadline:** Register by February 3.

**Event Registration:** Registration is mandatory and limited to the first 25 registrants. No walk-ins. Snack included in registration.

**Registration link:** Please call the office.

**Contact:** Mark Badertscher, (419)767-6037,  
[badertscher.4@osu.edu](mailto:badertscher.4@osu.edu)

### Putnam County • February 21

**9:00 AM-12:00 PM**

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

**Cost:** \$30

**RSVP Deadline:** Register by February 20.

**Registration link:** <http://putnam.osu.edu>

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

### Wood County • March 23

**5:30 PM-8:30 PM**

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

**Cost:** \$50

**RSVP Deadline:** Register by March 14.

**Registration link:** Please call the office.

**Contact:** Nick Eckel, (419)354-9050,  
[eckel.21@osu.edu](mailto:eckel.21@osu.edu)

# Agronomy / Soil Health / Nutrient Management / Water Quality

## Statewide

## Soil Health Series

8:00 AM-9:00 AM

**Event Type:** Virtual

**Description:** Monthly soil health topics compiles by the Ag Crops team. Join one session or all sessions.

**Dates & Topics:**

- January 5 - Earthworms – An Indicator of Soil Health, Dr. Peter Tomlinson, Kansas State University
- February 2 - Know your Biologicals and What they can (or Cannot) Do for You, Dr. Mark Licht, Iowa State
- March 2 - Intercropping and Soil Health, Lucas Criswell
- March 30 - Soil Health and Water Quality, Dr. Vinayak Shedekar, Ohio State University, Will Osterholz, USDA-ARS

**Location:** Online

**Registration information:** <http://putnam.osu.edu>

**RSVP Deadline:** Midnight the night before the event

**Cost:** No charge.

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

## Hardin County

## Conservation Tillage Club

7:30 AM-9:30 AM

**Event Type:** In-Person

Join us for breakfast followed by a featured speaker. Topics include agronomy, farm management, soil conservation, nutrient management, and water quality. CCA credits are available. Meal costs are covered by sponsors.

**Registration Information:** RSVPs are appreciated to plan for food and to see the speaker line up.

**Registration link:** <https://go.osu.edu/hardinagncr>

**Dates:** January 12, January 26, February 9, February 23

**Location:** Plaza Inn Restaurant, 491 S. Main, Mt. Victory, OH 43340

**Cost:** No charge

**Contact:** Mark Badertscher, (419)767-6037, [badertscher.4@osu.edu](mailto:badertscher.4@osu.edu)

## Putnam County

## Agronomy Night

January 17

6:00 PM-9:00 PM

**Event Type:** In-Person

Updates on agronomic topics of interest including weed management, corn and soybean production, and others. Private pesticide and CCA credits are available.

**Registration Information:** Meal included with registration.

**Registration link:** <http://putnam.osu.edu>

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

**Cost:** No Charge

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



## Fulton County

## Corn-Soybean Day

January 20

8:00 AM-3:00 PM

**Event Type:** In-Person

Traditional agronomy event focused on fertilizer usage, soybean cyst nematode/sudden death, soybean weed control, eFields for decision-making, managing double crops, and optional CORE and grain fumigation. Credits offered: 3 hrs. Ohio PAT credits in Core, 1, 6, and 1 hr. category 15; Michigan PAT credits; 3 hrs. Ohio Commercial PAT credits in Core, 2a, 2c, 2d, 10c; and 4.5 hrs. of CCA credit in IPM, CM, NM.

**Registration Information:** Meal included with registration.

**Registration link:** <https://go.osu.edu/cornsoybean2023>

**Location:** Sauder Village, Founder's Hall, 22611 SR 2, Archbold, OH 43502

**Cost:** \$40 early, \$50 after January 6

**Contact:** Maddie Newcomb, (419)337-9210, [newcomb.84@osu.edu](mailto:newcomb.84@osu.edu)

## Statewide Webinar

## Water Quality Wednesdays

10:00 AM-11:30 AM

**Event Type:** Virtual

Join the Water Quality Extension Associates for a monthly webinar on topics that impact water quality in the Western Lake Erie Basin. All WQW Webinars will be recorded for later viewing. All live webinars will offer Certified Crop Advisor (CCA) continuing education credits, and relevant topics will offer Certified Livestock Manager (CLM) credits to participants. Visit <http://waterqualityextension.osu.edu> for information on topics as they become available.

**Registration Information:** Please register by midnight on the day before the session.

**Registration link:** Register for one or all webinars at <http://go.osu.edu/WQW>

**Dates:** January 25, February 22, and March 29

**Location:** Virtual

**Cost:** No charge

**Contact:** Courtney Krieger, (419)337-9210, [krieger.117@osu.edu](mailto:krieger.117@osu.edu)

## Henry County

## Northwest Ohio Agronomy Day

February 8

8:00 AM-4:30 PM

**Event Type:** In-Person

Join us for a full day of great presenters on a variety of agronomic topics. Presenters include Pierce Paul, Professor and Associate Chair, Cereal Pathology, Epidemiology; Laura Lindsay, Associate Professor - Soybean & Small Grains; Erdal Ozkan, Professor of Food Agriculture & Biological Engineering, Aaron Wilson, State Climatologist of Ohio, Assistant Professor, Ag Weather, and Climate Field Specialist; Glen Arnold, Assoc. Professor, Field Specialist, Manure Nutrient Management; Alan Leininger, ANR Educator, Henry County. Private and commercial pesticide applicator, fertilizer, and CCA credits are available.

**Registration Information:** Meal included with registration.

**Registration link:** <https://go.osu.edu/henryanr2023>

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

**Cost:** \$45 early, \$55 after February 3

**Contact:** Alan Leininger, (419)592-0806, [leininger.17@osu.edu](mailto:leininger.17@osu.edu)

## Henry County

## Top Gun for Drones

March 1

6:00 PM-9:00 PM

**Event Type:** In-Person

If you are interested in being able to fly a drone like a professional, then this is the program for you. We will take you on a step-by-step process of learning the skills needed to fly a drone for commercial purposes such as aerial photography, aerial mapping, applying pesticides, first responder tasks, and much more. The basis of this course will be the F.A.A. Part 107 UAS "Drone" licensure test including the steps needed to obtain and maintain the certification.

**Registration Information:** Snack included in registration.

**Registration link:** <https://go.osu.edu/henryanr2023>

**Location:** Henry Co. Ext. Office, Hahn Center, Rm. 302, 104 E. Washington Street, Napoleon, OH 43545

**Cost:** \$30 early, \$50 after February 24

**Contact:** Alan Leininger, (419)592-0806, [leininger.17@osu.edu](mailto:leininger.17@osu.edu)

## Paulding County

## Regional Weeds University

March 3

9:00 AM-4:00 PM

**Event Type:** In-Person

Join us for the regional Weeds University. Hands-on activities and speakers will be included in the event. Topics covered - Identification of weeds, the biology of weeds, developing your herbicide program, and control strategies for weed management. Optional topics include cover crops and weeds or forage crops and weed management. Speakers will include Aaron Hagerman, Iowa State, Mark Loux, and Alyssa Essman as well as regional county educators. CCA, Commercial, and Private PAT credits available.

**Registration Information:** RSVP due by February 23. Meal included with registration.

**Registration link:** <http://go.osu.edu/pauldinganr2023>

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

**Cost:** \$40

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

## Statewide

## Conservation Tillage & Technology Conference

March 14 & 15

8:00 AM-5:30 PM

**Event Type:** In-Person

The annual conference will feature national corn yield contest winner David Hula as the keynote speaker in 2023. Breakout rooms will include agronomy, nutrient management, soil health/cover crops/no-till, precision ag & technology, water quality/conservation practices, and alternative crops/hot topics/farm management. CCA and CLM credits will be offered. Video recorded option may be offered at a later date for continuing education credits.

**Registration Information:** Register for one or both days. Flat rate registration for the conference/video. Food included in registration.

**Registration link:** <http://ctc.osu.edu>

**Location:** Ohio Northern University, McIntosh Center, 402 W. College, Ada, OH 45810

**Cost:** \$100 early, after February 28 \$150

**Contact:** Mark Badertscher, (419)767-6037, [badertscher.4@osu.edu](mailto:badertscher.4@osu.edu)

# Farm Business Management

## Fulton County • Organic Grains Conference • January 4, January 5

1:00 PM-5:00 PM

**Event Type:** In-person

**Description:** This 2-day, tri-state conference is geared toward grain farmers who are existing, transitioning, or interested in certified organic production. Keynote speakers include Joel Gruver (Western Illinois University) and Lea Vereecke (Rodale Institute) as well as university personnel and farmer-speakers. Topics include no-till organic soybeans, soil health, the future of organic grains, weed management, marketing options, organic budgets, nutrient options, grower panels, and networking time. Nine (9) hours of CCA credits are available.

**Cost:** \$90 for both days, \$60 for one day; student rates available.

**Location:** Sauder Village, Founder's Hall, 22611 SR 2, Archbold, OH 43502

**Registration link:** <https://go.osu.edu/organicgrainsregistration>

**Registration information:** Early bird RSVPs are due by December 9; registrations are accepted until January 3. Meal included in registration.

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

## Hardin County • Ag Council Breakfast

7:30 AM-9:00 AM

**Event Type:** In-person

**Description:** Join us for breakfast and a roundtable discussion of county agricultural issues and events. Each month the county Extension Educator will share information about a timely topic. Breakfast is available as an option at your own cost. No registration is required.

**Dates:** January 6, February 3, March 3, April 7, May 5, and June 2.

**Cost:** No charge.

**Location:** Kenton McDonalds - 990 E Columbus Street, Kenton, OH 43326

**Registration information:** No RSVP is needed. Just show up.

**Contact:** Mark Badertscher, (419)767-6037, [badertscher.4@osu.edu](mailto:badertscher.4@osu.edu)

## Defiance County • 2023 Farm Outlook Meeting • February 14

5:30 PM-8:30 PM

**Event Type:** In-person

**Description:** Speakers include Robert Moore, Long Term Care: Is the Farm at Risk? Dr. Aaron Wilson, 2023 Weather Outlook; Dr. Seungki Lee, Commodity Grain Market Outlook including an overview of supply and demand, demand side issues, wild cards that can affect markets, global factors and other macro factors.

**Cost:** \$10 until February 3, after Feb 3 cost is \$20.

**Location:** Jewel Community Center, 7900 Independence Rd., Defiance, OH 43512

**Registration information:** Registration is mandatory as space is limited. Dinner is included in the registration. Payment to OSU Extension Defiance County: check, cash, or credit card.

**Registration link:** <http://defiance.osu.edu>

**Contact:** Don Hammersmith, (419)782-4771, [hammersmith.4@osu.edu](mailto:hammersmith.4@osu.edu) or Sarah Noggle, (419)399-8225, [noggle.17@osu.edu](mailto:noggle.17@osu.edu)

# Livestock Production

## Mercer County • Western Ohio Dairy Luncheon Series

**11:00 AM-1:30 PM**

**Event Type:** In-Person

The monthly series covers dairy topics from herd management, financial analysis, forages, dairy risk management, and others. The luncheon occurs on the third Wednesday of each month.

**Dates:** January 18, February 15, and March 15

**Registration Information:** Meal included in registration.

**Registration link:** To register email [hampton.297@osu.edu](mailto:hampton.297@osu.edu)

**Location:** Speedway Lanes, 455 N Herman Street, New Bremen, Ohio 45869

**Cost:** No charge

**Contact:** Ryan McMichael, (419) 586-2179, [mcmichael.33@osu.edu](mailto:mcmichael.33@osu.edu)

## Statewide • Certified Livestock Manager (CLM) Webinar Series

**10:00 AM-11:30 AM**

**Event Type:** Virtual

The OSU Extension Water Quality Team is working with the Ohio Department of Agriculture to kick off a bi-monthly, year-round webinar series. These webinars will specifically target topics related to our Certified Livestock Managers, but everyone is welcome. Each webinar will provide 1.5 CLM continuing education credits as well as 1.5 credit hours for CCAs. We hope these webinars will offer useful information and create a space for communication between all parties involved.

**Registration Information:** Please register by midnight on the day before the session.

**Registration link:** Register for one or all webinars at <http://go.osu.edu/CLM>

**Dates & Topic:**

• **February 6** -- This month's topic will be eBarns, OSU Extension's newest on-farm research publication. CCA and CLM Credits will be offered. To register for this webinar or the entire series, visit

<http://go.osu.edu/CLM>. For information, contact [emmons.118@osu.edu](mailto:emmons.118@osu.edu)

• Future Dates February 2, April 3, June 5

**Location:** Virtual

**Cost:** No charge

**Contact:** Paige Garrabrant, (419)592-0806, [garrabrant.42@osu.edu](mailto:garrabrant.42@osu.edu)

## Hancock County • Feedlot School • February 6

**12:00 PM-3:00 PM**

**Event Type:** In-person

**Description:** Garth Ruff, State Beef Specialist, will discuss topics relating to Beef Production on the feedlot scale.

**Cost:** No charge.

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

**Registration information:** No RSVP is needed. Just show up.

**Contact:** Nick Eckel, (419)354-9050, [eckel.21@osu.edu](mailto:eckel.21@osu.edu)

## Henry County • Beef Quality Assurance • February 27

6:00 PM-7:30 PM

**Event Type:** In-person

**Description:** Beef Quality Assurance training is for beef cattle producers, who need to recertify or certify to sell cattle at auctions and other markets for the first time. Many of the major beef processors began requiring producers to have a BQA certificate at the beginning of 2019.

**Location:** TBD

**Registration information:** Seating Limited. No walk-ins are available. Registration is mandatory for in-person events.

**Registration Link:** <https://go.osu.edu/henryanr2023>

**RSVP Deadline:** February 23.

**Cost:** No charge.

**Contact:** Alan Leininger, (419)592-0806, [leininger.17@osu.edu](mailto:leininger.17@osu.edu)

## Hardin County • Beef Quality Assurance • February 28

6:30 PM-8:30 PM

**Event Type:** In-person

**Description:** Beef Quality Assurance training is for beef cattle producers, who need to recertify or certify to sell cattle at auctions and other markets for the first time. Many of the major beef processors began requiring producers to have a BQA certificate at the beginning of 2019. This class will provide first-time BQA certification or recertification for beef cattle producers.

**Location:** Hardin County Extension Office, 1021 W. Lima, Kenton, OH 43326

**Registration information:** Seating Limited. Class size is limited to the first 25 registrants. No walk-ins are available. Registration is mandatory for in-person events. Snack included in registration.

**Registration Link:** <https://go.osu.edu/hardinbqa>

**RSVP Deadline:** February 21.

**Cost:** No charge.

**Contact:** Mark Badertscher, (419)767-6037, [badertscher.4@osu.edu](mailto:badertscher.4@osu.edu)



# Natural Resources and Horticulture

## Statewide • Virtual Book Club, *Lives of Weeds: Opportunism, Resistance, Folly*

7:00 PM-8:00 PM

**Event Type:** Webinar

**Description:** The book that we will be reading and discussing is *Lives of Weeds: Opportunism, Resistance, Folly*. *Lives of Weeds* explores the tangled history of weeds and their relationship to humans. Through eight interwoven stories, John Cardina offers a fresh perspective on how these tenacious plants came about, why they are both inevitable and essential, and how their ecological success is ensured by determined efforts to eradicate them. Linking botany, history, ecology, and evolutionary biology to the social dimensions of humanity's ancient struggle with feral flora, Cardina shows how weeds have shaped - and are shaped by - the way we live in the natural world.

**Dates:** January 9, January 16, January 23, and January 30

**Location:** Virtual

**Cost:** No charge.

**Registration information:** Participants are required to purchase the book on their own. Registration is required one day before the program.

**Registration link:**

<https://osu.zoom.us/meeting/register/tJMrcz-grzgvHdJEf9LpxjnSuqlxZx5P32Q>

**Contact:** Amy Stone, (419)574-0986, [stone.91@osu.edu](mailto:stone.91@osu.edu)

- April 19 (Containers and Combos)
- May 24 (Garden Walk at Ottawa Memorial Park)
- June 14 (Garden walk at Glandorf Park)
- July 19 (Garden Walk at Kalida Park)
- August 23 (Garden Walk at Pandora Schools)

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

**Registration information:**

<http://putnam.osu.edu>

**RSVP Deadline:** None

**Cost:** No charge.

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

## Statewide • Virtual Book Club, *Braiding Sweet Grass*

7:00 PM-8:00 PM

**Event Type:** Webinar

**Description:** The book that we will be reading and discussing is *Braiding Sweet Grass*. As a botanist and professor of plant ecology, Robin Wall Kimmerer has spent a career learning how to ask questions of nature using the tools of science. As a Potawatomi woman, she learned from elders, family, and history that the Potawatomi, as well as a majority of other cultures indigenous to this land, consider plants and animals to be our oldest teachers.

**Dates:** February 6, February 13, February 20, and February 27

**Location:** Virtual

**Cost:** No charge.

**Registration information:** Participants are required to purchase the book on their own. Registration is required one day before the program.

**Registration link:**

<https://osu.zoom.us/meeting/register/tJ0pdO6srzMrE9K-Nz1fJM2znaLwQXZM7TgW>

**Contact:** Amy Stone, (419)574-0986, [stone.91@osu.edu](mailto:stone.91@osu.edu)

## Putnam County • Home Horticulture

### Series

11:00 AM – 12:00 PM

**Event Type:** In-person

**Description:** Monthly home horticulture topics. Join one session or all sessions.

**Dates & Topics:**

- January 11 (Happy Houseplants)
- February 15 (Planning for Pollinators)
- March 8 (Learning about Lawn care)

## Lucas & Wood County • Master Gardener Volunteer Training Class

9:00 AM-4:00 PM

**Event Type:** In-person

**Description:** Master Gardener Volunteer Training will provide people with an interest in becoming a Master Gardener Volunteer with the opportunity to attend the in-person training. The MGV Training will be a combined effort between Lucas and Wood Counties and classes will be held between the two locations during the nine weeks of classes.

**Dates:** February 7, February 14, February 21, February 28, March 7, March 14, March 21, March 28, April 4

**Location:** Wood County Extension Office, 639 S, Dunbridge Road, Suite 1, Bowling Green, OH 43402 and OSU at Toledo Botanical Garden, 5403 Elmer Drive, Toledo, Ohio 43615

**Cost:** \$235

**Registration information:** Registration is required by January 15.

**Registration link:** Please call the office to register.

**Contact:** Amy Stone, (419)574-0986, [stone.91@osu.edu](mailto:stone.91@osu.edu)

## Hardin County • Master Gardener Volunteer Hybrid Training Class

9:00 AM-4:00 PM

**Event Type:** In-person and virtual

**Description:** Combination online and in-person Master Gardener Volunteer training. This training course is for gardeners who wish to become MGVs. Requirements include 50 hours of instruction and 50 hours of volunteer time throughout the first year. Course participants will be paired up with a current MGV who will assist them with their training to make sure they are successful in becoming a MGV. Much of the volunteer time can be obtained learning with current MGVs in the Friendship Gardens of Hardin County which is located in Kenton. Work at your own pace to learn horticulture knowledge. Apply that new knowledge as a volunteer in your county assisting with educational garden programs along with other Hardin County MGVs.

**Dates:** February 13, with an additional six (6) in-person dates will be decided by course enrollees. Course times may be in the morning, afternoon, or evening. Other coursework will be completed online using a self-paced curriculum.

**Location:** Hardin County Extension Office, 1021 W. Lima, Kenton, OH 43326

**Cost:** \$150 plus the fee of a background check.

**Registration information:** Registration is required by January 30.

**Registration link:**

<https://go.osu.edu/hardinagnr>

**Contact:** Mark Badertscher, (419)767-6037, [badertscher.4@osu.edu](mailto:badertscher.4@osu.edu)

## Hardin County • Spring Garden Seminar • March 9

9:00 AM-4:00 PM

**Class Type:** In-person

**Description:** Presented by the Hardin County MGVs 'Something Old, New, Tried, & True in the Garden'. This spring garden seminar will feature such topics as "Exotic Invasive Landscape Plants" with Nora Hiland, Master Gardener, Member of Ohio Invasive Plants Council; "What is Compost?" by Timothy McDermott, DVM, OSU Assistant Professor, Franklin County Extension Educator; "Planting Container Gardens" with Candi Scheiderer, co-owner of Scheiderer Farms Greenhouse; and "Successfully Growing Hydrangeas" with Bradley Allen, Container Production Coordinator, North Branch Nursery.

**Location:** Mid-Ohio Energy Cooperative, 1210 Lima Street, Kenton, OH 43326

**Cost:** \$50 (\$40 Master Gardener Volunteers)

**Registration information:** RSVP is mandatory with the deadline, of February 23 and includes continental breakfast, lunch, and door prizes. Registration will be out in early January. For more information contact Kim Thomas at (419) 674-8012.

**Registration link:**

<https://go.osu.edu/hardinagnr>

**Contact:** Mark Badertscher, (419)767-6037, [badertscher.4@osu.edu](mailto:badertscher.4@osu.edu)

## Mercer County • Lawn & Garden Talks

7:00 PM-8:30 PM

**Event Type:** In-person

**Description:** A series of six-monthly talks that covers a wide variety of lawn and garden topics. Each session features a speaker that is well-versed in the topic of the month. All talks are FREE.

**Dates:** March 29, April 26, May 31, June 28, July 26, August 30, September 27

**Location:** Mercer County Extension Office, 220 W. Livingston Street, Room B252, Celina, OH 45822

**Cost:** No charge.

**Registration information:** RSVP appreciated.

**Contact:** Ryan McMichael, (419) 586-2179, [mcmichael.33@osu.edu](mailto:mcmichael.33@osu.edu)

## Lucas County • Woodlawn Cemetery and Arboretum Tree Walks

7:00 PM-8:30 PM

**Event Type:** In-person

**Description:** Join OSU Extension in an education session and walk in the Woodlawn Cemetery and Arboretum. Times will be adjusted to earlier and later in the season because of day length.

**Dates:** April 25, May 30, June 27, July 25, August 29, September 26, October 24, November 28

**Location:** Historic Woodlawn Cemetery and Arboretum, 1502 Central Avenue, Toledo, Ohio 43606

**Cost:** Free

**Registration link:**

<https://lucas.osu.edu/events/calendar>

**Contact:** Amy Stone, (419)574-0986, [stone.91@osu.edu](mailto:stone.91@osu.edu)

## Henry County • Northwest Ohio

### Gardening Day • April 28

8:00 AM-3:00 PM

**Class Type:** In-person

**Description:** Join Ohio State University Extension & the Henry County Master Gardeners for the second annual Northwest Ohio Gardening Day. This event will be filled with many gardening topics, speakers, and hands-on demonstrations to help get your garden growing and looking great!

**Location:** Henry County Fairground, 821 South Perry Street, Napoleon, OH 43545

**Cost:** \$45, after April 21 cost is \$60.

**Registration information:** Lunch will be provided as well as take-home materials. Stay tuned to <http://henry.osu.edu> for sessions and speaker announcements. Meal included in registration.

**Link to registration:**

<https://go.osu.edu/henryanr2023>

**Contact:** Alan Leininger, (419)592-0806, [leininger.17@osu.edu](mailto:leininger.17@osu.edu)

# Miscellaneous Ag Events

## Statewide • Overholt Drainage School • March 13- March 17

7:30 AM-4:30 PM

**Event Type:** In-person

**Description:** The 2023 Overholt Drainage School will be held at Ohio State University Agricultural Technical Institute in Wooster, Ohio from March 13 – 17, 2023. Participants may choose to attend the full weeklong program or either of two individual sessions. Session 1 (Monday – Thursday) will be focused on drainage law and economics; drainage design, planning, and installation; and conservation drainage practices. Session 2 (Friday) will focus on advanced technology applications such as RTK-GPS for topographic mapping, drainage design software, and machine and grade control. The program is open to anyone interested in subsurface drainage design and installation.

**Cost:** Full program (Monday, 3/13 - Friday, 3/17 (Sessions 1 + 2)): \$600; Session 1 only (Monday - Thursday): \$475; Session 2 only (Friday): \$375. Additional discounts may apply.

**Registration information:** The RSVP deadline is February 28. Meal included in registration.

**Registration Link:** For more information, visit <http://go.osu.edu/drainageschool23>. For registration, questions contact Elizabeth Schwab at [schwab.175@osu.edu](mailto:schwab.175@osu.edu).

**Location:** Ohio State University Agricultural Technical Institute, 1328 Dover Rd, Wooster, OH 44691

**Contact:** Vinayak Shedekar, (203)321-5568, [shedekar.1@osu.edu](mailto:shedekar.1@osu.edu)

## Defiance County • Agriculture Appreciation and Hall of Fame Breakfast • March 21

8:00 AM-10:00 AM

**Event Type:** In-person

**Description:** Breakfast and program are open to the public. The 2023 Defiance County Ag Hall of Fame honorees will be inducted. The Ag Hall of Fame nomination deadline is February 1 with applications available at <http://defiance.osu.edu>. Guest speaker TBD. Register online or by phone.

**Cost:** \$5

**Registration information:** The RSVP deadline is March 14. Meal included in registration.

**Registration Link:** <http://defiance.osu.edu>

**Location:** Defiance Knights of Columbus, 111 Elliot Road, Defiance, OH 43512

**Contact:** Don Hammersmith, (419)782-4771, [hammersmith.4@osu.edu](mailto:hammersmith.4@osu.edu)

# Helpful Resources

## Knowledge Exchange at Ohio State

<http://kx.osu.edu>

The Knowledge Exchange (KX) brings together researchers, Extension professionals, decision-makers, and communicators to share, explore and engage with the world-class research from the College of Food, Agricultural, and Environmental Sciences at The Ohio State University. The KX offers various content designed for multiple audiences and platforms, including stories, videos, questions, image collections, files, and links.

## OSU Extension Farm Management

<http://farmoffice.osu.edu/>

The Farm Office is your farm's agricultural law and farm management resource center. Our team of experts represents OSU Extension programs in Agricultural and Resource Law, Dairy Production Economics, Farm Business Analysis and Benchmarking, Farm Risk Management, Ohio Ag Manager, Production Business Management, and Tax. We've collaborated to form the Farm Office, a one-stop shop for research and outreach on the legal and economic challenges of agricultural production.

## eFields

<https://digitalag.osu.edu/efields>

eFields represents an Ohio State University program that decided to advance production agriculture through the use of field-scale research. This program utilizes modern technologies and information to conduct on-farm studies with an educational and demonstration component used to help farmers and their advisors understand how new practices and techniques can improve farm efficiency and profitability. The program is also dedicated to delivering timely and relevant, data-driven, actionable information. Current projects are focused on precision nutrient management strategies and technologies to improve fertilizer placement efficiency, enable on-farm evaluation, automate machine functionality, enhance the placement of pesticides and seeds, and develop analytic tools for digital agriculture.

## The Crop Observation and Recommendation Network (CORN) Newsletter

<http://corn.osu.edu>

CORN Newsletter summarizes crop observations, related information, and appropriate recommendations for Ohio crop producers and industry. The Ohio State University Agronomy Team produces the CORN Newsletter, along with state specialists at The Ohio State University and the Ohio Agricultural Research and Development Center (OARDC). The team dedicates their time to providing accurate and timely information, providing educational opportunities, and conducting research projects addressing Ohio's agronomic crop industry's needs.

## Ohio Ag Manager

<http://u.osu.edu/ohioagmanager>

The team helps farm managers succeed and be profitable. The goal of the Ohio Ag Manager Team is to provide agricultural businesses with timely management information dedicated to improving the efficiency and profitability of their farm enterprise. Focal issues areas discussed in the monthly electronic newsletter include financial, labor, legal, marketing, and human resource development.

## Buckeye Yard & Garden Online (BYGL)

<http://bygl.osu.edu>

Buckeye Yard and Garden Online (BYGL) provide timely information about Ohio growing conditions, pest, disease, and cultural problems. Created by the Extension, Nursery, Landscape, and Turf (ENLT) team, the group's key role is to develop articles and supporting photos. This website benefits commercial nursery, garden center, landscape business managers, or consumer that wants to keep their yard or garden looking good all summer. Additional factsheet information may be found through the OSU Factsheets database: [plantfacts.osu.edu](http://plantfacts.osu.edu).

## Ohioline

<http://ohioline.osu.edu/>

Ohioline is an information resource produced by Ohio State University Extension. Through Ohioline, you have access to hundreds of OSU Extension fact sheets covering a wide array of subjects such as agriculture and natural resources, family and consumer sciences, community development, and 4-H youth development. The fact sheets on Ohioline provide cutting-edge, scientifically based information generated via research conducted by Extension and other faculty and staff at the Ohio State main campus and the Ohio Agricultural Research and Development Center (OARDC), often in collaboration with other land-grant university colleagues.

## OSU Nutrient Education and Management

<http://nutrienteducation.osu.edu>

Learn all about the requirements and record-keeping for Ohio's Fertilizer Certification. The website includes area certification and recertification opportunities.



## Pesticide Education

<http://pested.osu.edu>

The Pesticide Education Safety Team (PEST) is the website housing all information about commercial and private pesticide applicator education in Ohio. The team's goal is to protect human health and the environment by providing education programs on the safe and effective use of pesticides.

## OSU Agronomic Crops Team

<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 the Ohio Agricultural Research and Development Center. Disciplines included on the Team: Soil Sciences, Agronomy, Plant Pathology, Entomology, Agricultural Engineering, and Weed Science. The team's mission is to provide accurate and timely information, provide educational opportunities, and conduct research projects addressing Ohio's agronomic crop industry's needs.

## Soil Health

<http://soilhealth.osu.edu>

The OSU Extension Soil Health website is dedicated to education based on Soil Health assessment, Soil Health Management, Soil Health resources, and On-Farm research. The program's long-term goal is to improve Ohio's soil health and the environment by educating farmers, youth, and the general public.

## Weed Science/Management Information from Ohio State

<http://u.osu.edu/osuweeds/>

OSU's Weed Management team shares information about weeds and herbicides for the agricultural community. Dr. Mark Loux's blog enables producers to get help with field crop weeds questions, identify weeds, and get the latest information on herbicides' critical questions.

## Ohio State FARM – Field Application Resource Monitor

<http://farm.bpcrc.osu.edu>

FARM is a real-time and historical climate information tool for fertilizer and manure application. Water quality is important to all Ohioans, and we all impact our watersheds. In recent years, Ohio farmers have taken significant positive steps toward limiting the negative impacts on water quality that come from the loss of sediment and nutrients. FARM allows users to define their locations of interest and receive 12- and 24-hour precipitation forecasts to apply fertilizer, manure, and pesticides. FARM also utilizes a database of historical forecasts allowing users to search previous dates. Users can choose to create an account to track multiple fields, explore statewide conditions in quick-view, and sign-up to receive email alerts.

## AgBMPs

<http://agbmps.osu.edu>

Private and public dollars available to address erosion and nutrient loss concerns from agricultural production fields are limited. As a cost-effective way to reach conservation goals, reduce erosion or nutrient losses by identifying field situations with potentially higher risk or critical concerns by matching potential Best Management Practices (BMPs) for implementation with the field situation and management used. For professionals from Soil and Water Conservation Districts (SWCDs), State Agencies, and the Natural Resources Conservation Service (NRCS), current resources are limited to cover the landscape identifying critical concerns for farmers/landowners. This website intends to empower farmers/landowners with the knowledge necessary to identify high-risk situations in their farm fields and know when to seek professional help for implementing cost-effective conservation.

## On-Field Ohio

<http://nutrientmanagment.osu.edu>

On-Field Ohio provides farmers with a tool to manage field-scale phosphorus runoff loss to maintain agricultural production and protect water quality. On-Field Ohio is an online interactive program that offers long-term average estimates for erosion and phosphorus runoff. Users can evaluate voluntary changes in how management practices contribute to achieving target P runoff reduction goals.

## OSU Extension Water Quality Team

<https://waterqualityextension.osu.edu/>

The goal of the OSU Extension Water Quality website is to provide a platform for engaging with producers, stakeholders, and the public in the realm of water quality. The website outlines projects the team is currently working on in the Western Lake Erie Basin as well as our upcoming events. Our team of Extension Water Quality Associates welcomes your questions and collaboration on future projects.

# eFields – Coming Soon!

Expected release Mid-January 2023

The banner features a red box with 'CFAES' in white, and a grey bar with 'OHIO STATE UNIVERSITY EXTENSION' in white. The main title 'eFields' is in large black font, with 'connecting science to fields' below it. A red box contains the text 'Interested in improving decision-making on your farm?' and 'Partner with Ohio State University Extension to use science to optimize your operation.' Four images show agricultural machinery: a combine harvester, a planter, a tractor with a tillage implement, and a close-up of a sensor array.



**For more information:**  
Contact Dr. Elizabeth Hawkins at  
[hawkins.301@osu.edu](mailto:hawkins.301@osu.edu) or [digitalag@osu.edu](mailto:digitalag@osu.edu).

## Agronomy and Farm Management Podcast

Hosted by OSU Extension’s Amanda Douridas and Elizabeth Hawkins

Stay on top of what is happening in the field and the farm office. This podcast takes a bi-monthly dive into specific issues that impact agriculture, such as weather, land value, policies, commodity outlooks, and more.

**New episodes are released every other Wednesday.**

Listen and subscribe at: [www.go.osu.edu/iTunesAFM](http://www.go.osu.edu/iTunesAFM) or [www.go.osu.edu/StitcherAFM](http://www.go.osu.edu/StitcherAFM)



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for iTunes!



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for  
Stitcher!



# Farm Science Review – Save the Date!

September 19-21, 2023

The Molly Caren Agricultural Center (MCAC) near London, Ohio, is home to the Farm Science Review. It attracts upwards of 140,000 visitors from all over the United States and Canada. They come for three days to peruse 4,000 product lines from 600 commercial exhibitors and learn the latest in agricultural production. The educational programs feature Ohio State and Purdue specialists and are second to none in the agricultural exhibition world.



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# Rural and Farm Stress

## Creating Resilient Farms & Families in Ohio

Farm families are the backbone of America, providing important commodities like food, grains, and livestock. They are a significant component of our national economy. Having healthy farms and healthy farm families promotes environmental stewardship, cultural legacies, and rural community growth.

Taking care of crops and animals is hard on farmers and agribusiness professionals. Caring for your health and wellness in this high-stress profession is often overlooked but is just as critical as caring for your farm business.

Farming is one of the most physically dangerous occupations and many are injured or die while on the job. Farming is also mentally and emotionally challenging where economic, social, and environmental forces confront farm families and rural communities. Add in the implications of COVID-19 and many individuals may feel overwhelmed with the effects of stress, depression, anxiety, and other mental health conditions.

In response to a growing concern about the lack of resources and support for farmers, farmworkers, and families, Ohio State University Extension has been working to build partnerships to stimulate innovation and action in the state. Finances, legal issues, and physical and mental well-being are all at the forefront of agricultural concerns. These stressors can lead to mental and emotional distress, substance abuse, anxiety, depression, and even suicide.

Because of the critical role of farmers in our state and across the nation, Ohio State University Extension has prepared this selection of assets to help farm families navigate the numerous resources available online and provide timely, science-based education and information to support prosperous farms and healthy farm families. Our partnership extends to the Ohio Department of Agriculture, the commodity and livestock groups in Ohio, as well as support from the Ohio Farm Bureau and Ohio Farmers Union. Please check out our website at <http://u.osu.edu/farmstress>

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**A healthy farm is nothing without a healthy you.**

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## 988 Suicide & Crisis Lifeline

- **Call or text 988 to connect with a trained licensed professional counselor within minutes.**
- **Free, confidential, anonymous, and secure 24/7.**
- **Features active rescue where trained counselors connect with emergency services to save texters from immediate self-harm.**

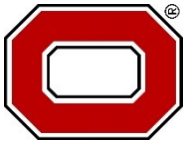
The 988 Suicide & Crisis Lifeline (formerly known as the National Suicide Prevention Lifeline) offers 24/7 call, text, and chat access to trained crisis counselors who can help people experiencing suicidal, substance use, and/or mental health crises, or any other kind of emotional distress. People can also dial 988 if they are worried about a loved one who may need crisis support.

## Ohio Mental Health Resource Guides by County

To access the website, visit <https://u.osu.edu/cphp/ohio-mental-health-resource-guides>

This resource has mental health and substance use disorder resources available by county in Ohio. This work is supported by the USDA FRSSAN grant in cooperation with the Ohio Department of Agriculture and OSU Extension.





**Ohio State University Extension**

503 Fairground Drive, Suite A  
Paulding, OH 45879

