Hello, Northeast Ohio Counties!

We can not believe that it is the end of February already! As we move into March, we have a ton of Extension programs planned for you. Details about these programs are included in this newsletter.

Please notice the registration deadline for the Northeast Ohio Agronomy School and the Ashtabula County Dairy Banquet are next week. We hope to see you at these events…please get your reservations in as soon as possible.

Have a great week and we will see you in March!

David Marrison  
Extension Educator  
Ag & Natural Resources  
Ashtabula County

Lee Beers  
Extension Educator  
Ag & Natural Resources  
Trumbull County
Registration Deadline Nears for March 15 Northeast Ohio Agronomy School
The March 8 registration deadline is drawing near for the “2017 Northeast Ohio Agronomy School” scheduled for Wednesday, March 15, 2017 from 9:30 to 3:30 p.m. at the Williamsfield Community Center in Williamsfield, Ohio. Seven different speakers will be on hand to discuss the major issues impacting corn and soybean production in northeast Ohio.

During the morning session, participants will learn how to comply with the revised Worker Protection Standards; how to manage herbicide-resistant weeds; and how to develop a Success Score Card for your farm business. Then in the afternoon, producers will learn more about white mold in soybeans, the economic payback of seed treatments, small grain diseases, corn ear diseases, Cry1F failures in corn, and how producers can reduce nitrogen costs by side dressing with manure.

As always, a hearty farmer lunch prepared by Lahti Catering means attendees will not go away hungry! This lunch is sponsored by W.I. Miller & Sons of Farmdale, Ohio. The registration fee for this workshop is $10.00/per person and is required by March 8, 2017. Make checks payable to OSU Extension, and mail to Ashtabula County Extension office, 39 Wall Street, Jefferson, OH 44047. A registration flyer can be found at: http://go.osu.edu/ne-events More information can be received by calling the Ashtabula County Extension office at 440-576-9008.

Northeast Ohio Winter Dairy Conference Slated for March 9 in Wooster, Ohio
The OSU Extension dairy working group team invites all dairy producers to attend the regional winter dairy conference scheduled for March 9 at Fisher Auditorium on the OARDC campus in Wooster, located at 1680 Madison Ave. The conference begins with registration at 9:30 a.m. and concludes at 3 p.m. The theme of the conference is dairy cattle nutrition and management and includes a number of Ohio State University specialists on the program. Topics and speakers include:

- Less is more with reduced lignin in alfalfa: Mark Sulc, OSU Extension Forage Specialist
- Numbers can lie! The importance of good feed sampling: Bill Weiss, OSU Dairy Nutrition and Interim Chair, Department of Animal Science
- The most interesting economic stuff ever! Dianne Shoemaker, Extension Field Specialist, Dairy Production Economics
- Wading through a sea of numbers: How to evaluate a feed lab test: Bill Weiss, OSU Dairy Nutrition and Interim Chair, Department of Animal Science
- Automated Milk Feeders for Calves: There’s more to manage than the milk dispensing equipment: Maurice Eastridge, OSU Dairy Nutrition
- Handling cattle to maximize milk production: Katy Proudfoot, OSU Extension Animal Welfare & Behavior Specialist
- Salad bar and dessert: Managing the feeding system on farms with robotic milking systems: Maurice Eastridge, OSU Dairy Nutrition

Cost of the conference is $10/person and includes morning refreshments, noon lunch and handout materials. Pre-registration is requested by March 2 to the Wayne County Extension office at 330-264-8722 or RSVP by email to parker.1269@osu.edu. Sponsors of the dairy conference include Farmers National Bank, Farm Credit Mid-America, Wayne Savings Community Bank and Farmers State Bank. A program flyer can be found at: http://wayne.osu.edu/sites/wayne/files/imce/Program_Pages/ANR/Events/2017/Winter%20Dairy%20Conference_0.pdf
Ohio Aquaculture Association Spring Workshop to be Held on March 10
The Ohio Aquaculture Association Spring Workshop focusing on aquaponics and will be held Friday, March 10 in the Columbus, Ohio area. The morning session is at the Quest Conference Center at Polaris and afternoon sessions will be at FreshHarvest Farm located in Union County, OH northwest of Columbus. A bus will be provided, with a return to the Quest Center at 5 PM. Cost of this program is $50 for OAA Members and $75 for non-OAA Members. Online registration is available at the OAA website - http://ohioaquaculture.org/events.html

Winter Beef Clinic to be held on March 23, 2017 in Jefferson, Ohio
OSU Extension and the Ashtabula County Cattlemen’s Association would like to invite Northeast Ohio Beef Producers to their Winter Beef Clinic on Thursday, March 23, 2017 at the Ashtabula County Extension Office in Jefferson, Ohio. The keynote speaker for this workshop will be John Grimes, Associate Professor & OSU Extension Beef Specialist. Join us as we discuss the basics of feeding beef cows and calves in Northeast Ohio.

During this workshop, John Grimes will share how to economically feed cattle on a small beef farm in Ohio. Discussions will be held on feeding Brood cows and their calves. Learn how to read a hay analysis report so you can get the biggest bang from your hay & baleage feeds. John will use the results from local farms to show how forage quality impacts the overall nutrition program. Learn about hay storage basics and grain & mineral supplementation. Learn more about the new Veterinary Feed Directive.

Local 4-H and FFA Youth will also want to attend as John will share how to feed your steer for the county fair. Learn how to plan for the growth of your steer from the day of purchase all the way through fair.

This workshop is free and open to all beef producers in Northeast Ohio. 4-H and FFA youth will also gain valuable experience from this workshop. No registration is required. Light refreshments will be served. A program flyer can be found at: http://go.osu.edu/ne-events More information can be received by calling the Ashtabula County Extension office at 440-576-9008. Do not miss this chance to increase your beef nutrition management skills.

Chainsaw Safety Class to be held on April 8
OSU Extension Trumbull County will be offering a chainsaw safety class on Saturday, April 8th from 9:00 a.m. to 12:00 noon at the Trumbull County Ag and Family Education Center in Cortland, OH. This class is designed to help you handle and operate your chainsaw safely when you are clearing out a fence row, cleaning up after a storm, or any other time that you may use your chainsaw. The class will begin inside with an overview of protective equipment designed to minimize injury before moving to basic saw maintenance. We will cover saw basics, how to perform a safety check, and how to keep your chain sharp. We will wrap up the morning with demonstrations outside to show proper tree felling and bucking techniques.

Pre-registration is requested by April 5th, 2017. Cost for the class is $30/person and includes handouts, light refreshments, and additional materials. To register please complete the registration form and return to OSU Extension Trumbull County, 520 West Main St., Suite #1, Cortland, OH 44410. Please call 330-638-6783 or email Lee Beers (beers.66@osu.edu) for more information.

2017 4-H Carnival to be held on March 7 in Jefferson
The 8th Annual Ashtabula County 4-H Carnival will be held on March 7 during Ashtabula County 4-H Week at the 4-H Expo Building at the County Fairgrounds in Jefferson from 6:00 – 8:00 p.m. This event is open to all to encourage families who are interested in 4-H to come and learn about the programs 4-H has to offer.
The 2017 4-H Carnival will be filled with activities and games for youth to participate in with their family and friends. Fun carnival food, like hot dogs, popcorn, and snow cones will be available by donation for children of all ages. Exciting and interactive activities and games will be offered representing each 4-H program area at the event where questions on projects can be answered by an advisor or species chair that has knowledge in the project area.

Information on Ashtabula County 4-H will be available for all those in attendance. For more information on 4-H programs in Ashtabula County, please contact Jenna Hoyt at 440-576-9008 or via email at hoyt.88@osu.edu or visit our website at www.ashtabula.osu.edu and visit the 4-H Youth Development page.

How Does Health Insurance Affect Farmers and Ranchers? Help Influence Rural Health Policy in Upcoming Survey

Farmers and ranchers: How does health insurance affect you? Help influence rural health policy by participating in an upcoming USDA funded survey. Your responses will help researchers understand how health-insurance policy affects farmers’ and ranchers’ decisions to invest, expand, and grow their enterprises.

Selected participants received a letter about the survey in February. If you would like to participate follow this link: https://survey.uvm.edu/index.php/132344?lang=en

This survey is a chance for farmers and ranchers to make their voices heard about their experiences with health insurance and how that affects both their economic development and family’s quality of life. "We’re interested in hearing from multi-generation, beginning, and first generation farm and ranch families across all ages and sectors of agriculture. We want to understand what parts of health insurance are working well for farmers and ranchers and what types of policy and program modifications need to be made. Results will be shared with agriculture and health policy makers,” said lead researcher, Shoshanah Inwood, rural sociologist and professor at the University of Vermont. All responses will be confidential and only summary statistics will be reported.

"We know from our prior research that farmers identify the cost of health insurance as a key barrier to growing their farms or farming full-time,” said Inwood. This study is a joint effort with the NORC Walsh Center for Rural Health Policy, and the four USDA Rural Development Centers. Findings will be used to guide the development of training materials for professionals who work with farmers and ranchers—such as Extension Educators, farm consultants, and tax accountants—so that they can support farmers’ and ranchers’ ability to make well-informed decisions regarding health insurance.

The survey questions are based on interviews conducted in 2016 with smaller groups of farmers and ranchers in the 10 states being researched. This study is a four-year national project exploring how health insurance options impact the farm and ranch population in the U.S. The project, titled “Health Insurance, Rural Economic Development and Agriculture” (HIREDnAG), is funded by a $500,000 USDA Rural Communities and Regional Development grant. States included in the study are California, Kentucky, Massachusetts, Michigan, Mississippi, Nebraska, Pennsylvania, Utah, Vermont, and Washington.

Project partners include the Northeastern, North Central, Southern and Western Regional Rural Development Centers (RRDCs); University of Vermont Center for Rural Studies; University of Vermont Extension; Center for Rural Affairs; University of Maryland Extension; and, the Farm Foundation.

For more information, visit the HIREDnAG website: http://www.hirednag.net/

Or contact Katlyn Morris, HIREDnAG Project Coordinator at katlyn.morris@uvm.edu or by phone at 802-656-0257.
As of the end of 2016, Palmer amaranth had been found in 18 Ohio counties, and the majority of it is resistant to both glyphosate and ALS-inhibiting herbicides (site 2) based on OSU greenhouse screening. Not all of these “finds” represent problem infestations, and in some cases the potential for a few plants to become an established patch was remedied by timely removal and subsequent monitoring. There are however a number of fields where Palmer became well established and effective control has since required extremely comprehensive herbicide programs combined with removal be hand. This past growing season, three soybean fields were so densely infested with Palmer that they had to be mowed down in early August. At that point, the only recommendation we could make was mowing, to prevent the production of massive amounts of additional seed, in order to at least limit somewhat how bad future infestations were going to be (photos of this on our blog – u.osu.edu/osuweeds). These infestations obviously started prior to this year, and were ignored, allowing them to continue to increase to the point of disaster. This scenario is of course what occurred in many fields in the southern US as Palmer spread and took over fields. In this article we cover the relative importance of the various paths of Palmer amaranth introduction in to Ohio fields so far, and the steps growers can take to prevent infestations from becoming established.

1. Use cotton feed products from the south by animal operations, and subsequent spread of manure from these operations onto crop fields, has been responsible for most of the infestations in Ohio so far. Palmer is widespread in cotton fields in the south so the cotton harvest byproducts that are shipped to Ohio for use as feed have a high potential to contain Palmer seed.

Action items: a) avoid use of these feed products, b) educate animal operations in your area about this issue; c) if still using these feed products, find out whether the supplier has taken any steps to remove Palmer seed prior to shipping them here; d) if possible, store manure in pits for a period of time prior to spreading, which may reduce the seed viability at least somewhat.

2. Field to field spread by local equipment has occurred in a few areas of the state, primarily via combines that are used in Palmer-infested fields without subsequent complete cleanout (and it’s impossible to get all Palmer seed out of a combine anyway).

Action items: a) if hiring custom harvesters, find out whether the combine has previously been in fields infested with Palmer; b) ask the custom harvest operator what his philosophy is with regard to harvesting very weedy fields or those infested with Palmer - does he avoid these fields, are cleanout procedures used?

3. Purchase of used equipment that came from the south is known to be the source of several infestations in one area of the state. In this case a used combine was purchased from a local equipment dealer, but apparently originated in Georgia.

Action items: a) when purchasing used equipment, especially combines, know the full history; and b) avoid purchase of combines from Palmer-infested areas.

4. Contamination of seed used for establishment of cover crops, CREP and similar areas, pollinator areas, wildlife areas, etc. We should say at the outset here that as far as we know this has been the source of only two infestations of Palmer amaranth in Ohio – one in Scioto County that may have started in about 2007, and one in Madison County several years ago that was torn up to prevent future problems...
and so did not turn into an established infestation. However, a pollinator seeding program in Iowa this year resulted in many new introductions of Palmer amaranth due to the contamination of pollinator seed with Palmer seed. (A recent Ohio Farmer article on this subject made it look like Armageddon was about to occur here in Ohio based on the problems that occurred farther west, which is an overstatement. It stated that two counties were “infected” with Palmer due to contamination of CREP, when the reality is that there are three infested fields in Scioto County. The introduction in Madison County was largely eradicated).

Much of this type of seed is produced farther west (Kansas, Texas, etc), or in the south in the case of warm-season grasses, in areas that can be abundantly infested with Palmer amaranth. Palmer amaranth is not a noxious weed in the western states at least. The Catch 22 is that while seed sold for use here is not supposed to contain seed of Palmer amaranth or other weeds designated as noxious in Ohio, the fact that Palmer is not a noxious weed where the seed is produced means that the seed tag does not have to show whether Palmer seed is a contaminant. If you are thinking well that doesn’t make any sense, you’re not alone. Programs of state and federal agencies have been relying on seed tags for the most part, although they are encouraging growers to have seed tested (see below). One county FSA office apparently does mandate testing of all seed. Pheasants Forever appears to have a more proactive approach in place. They contract with only one seed vendor each year. Prior to being shipped from the Kansas vendor, seed is screened for the presence of first any pigweed, and then also Palmer amaranth if necessary.

Action items: a) Ohio Department of Agriculture (ODA) will screen any seed of this type for the presence of all Ohio noxious weeds. We recommend having this done prior to planting. Contact the ODA Grain, Feed, and Seed Program at (614) 728-6410 – they have to pick the seed up, it cannot be mailed or dropped off.

Other possible mechanisms of introduction include movement of seed on animals or migratory birds or with flood water, all of which are out of one’s control. Keep in mind that the residual herbicides we are using to control marestail and ragweeds also have activity on Palmer amaranth. The early-season control of Palmer that they provide allows for a fighting chance to scout and remove Palmer plants later in the season, before they have been able to produce viable seed. There was no use of residual herbicide in the fields that were mowed down this year (nothing except glyphosate actually). We need to have a zero tolerance attitude toward Palmer amaranth in Ohio. An important component of this, in addition to the steps outlined above, is scouting of soybean fields in mid to late season for the presence of Palmer plants that have escaped all prior herbicide treatments. This can be accomplished a number of ways – driving by or around fields and scanning with binoculars, use of a drone, etc. Any Palmer plants found should be first checked for presence of mature seed – small black seed upon shaking or crushing of seedheads. If there are none, cut the plants off just below the soil line, remove from field and burn or compost. They can reroot and regrow enough to still produce seed if left in the field. Where plants have mature seed, our suggestion would be to first cut off and bag seedheads on site, prior to removal of plants. Or possibly drive into the field, and put them gently into the bed of a vehicle. Avoid dragging plants with mature seed through the field. We assume that Palmer plants would not be evident in corn fields until seen from a combine cab during harvest. When in doubt, get help with identification and avoid contaminating combines with Palmer seed, rather than just harvesting through anything and hoping for the best. Contact us at any time for help with identification or management advice. There are also resources on the OSU weed management website – u.osu.edu/osuweeds.

**Upcoming Conferences to Help Small Farm Owners**

Two conferences designed for the small farm owner will be held in Wilmington and Massillon, Ohio in March. Ohio State University Extension’s Small Farm Program will host the “Opening Doors to Success” and “Living Your Small Farm Dream” conferences to help small farm owners get the maximum potential out of their business.
“Across Ohio, there are an increasing number of residents who are purchasing small acreage,” said Tony Nye, an OSU Extension educator who coordinates OSU Extension’s Small Farm Program. “Conferences such as this help provide landowners necessary information to help grow their small farm business.”

The two conferences, each with a trade show, are designed to help participants learn tips, techniques and methods for diversifying their operations to improve economic growth and development on their farms, Nye said.

Researchers and educators with OSU Extension and the Ohio Agricultural Research and Development Center, as well as industry experts, will conduct the conference sessions. OSU Extension and OARDC are the outreach and research arms, respectively, of the College of Food, Agricultural, and Environmental Sciences at The Ohio State University.

The “Opening Doors to Success” Conference is March 10-11 at Wilmington College, 1870 Quaker Way in Wilmington. The March 10 session is from 1-5:30 p.m. with a workshop on Poultry Production, held at the Wilmington College Academic Farm, 1590 Fife Ave., in Wilmington; and a workshop on Beekeeping for the Beginner, held at the Wilmington College Kelly Center, on College Street, in Wilmington.

The March 11 session is from 7:45 a.m. to 3:45 p.m. at the Center for Science and Agriculture, 340 College Street, in Wilmington. Topics for the day will include: applying chemicals, greenhouse production, livestock, field crops, finances, and farm and land access.

Registration for the “Opening Doors to Success” conference is $20 for Friday; $60 for Saturday only; or $70 for Friday and Saturday. Register at go.osu.edu/BpkQ no later than March 3. Students are offered a discounted rate.

The “Living the Small Farm Dream” Conference is March 25 at the R.G. Drage Center, 2800 Richville Drive Southwest, in Massillon, from 8 a.m. to 3:45 p.m. The event will include 27 workshop sessions on topics including: disease prevention, aquaculture, land management, finances, solar energy, pond management and using urban land for garden markets.

Registration for the “Living the Small Farm Dream” conference is $60 and $30 for students. Register at agnr.osu.edu/small-farm-programs no later than March 17. For more information contact Nye at 937-382-0901 or nye.1@osu.edu.

The conferences are an outgrowth of the Ohio New and Small Farm College, an eight-week program created by OSU Extension that offers an introduction to the business of small farming for those who are new to the industry. The program offers information on budgeting, business planning and developing a farm structure, among other issues.

Ashtabula County Dairy Banquet to be held on Saturday, March 18, 2017
OSU Extension and the Ashtabula County Dairy Service Unit are pleased to announce the 67th Annual Dairy banquet will be held on Saturday, March 18, 2017 at the Augustus Center at Camp Beaumont located at 2429 State Route 45 in Rock Creek, Ohio beginning promptly at 7 p.m. The banquet program will consist of the crowning of the 2017 Dairy Princess; the presentation of production and 4-H awards; and the election of two members to the Dairy Service Unit Board. Tickets are $15 per person and can be purchased from Dairy Service Unit Board members, Tom Coltman of Wayne, Joel Baldwin of Sheffield; Jason Brinker of Rock Creek; Lindsey Zaebst of Roaming Shores, Lisa Kalas of Jefferson; and from David Marrison at the Ashtabula County Extension office at 39 Wall Street in Jefferson. Pre-sale tickets are required this year. Please purchase your ticket by March 10, 2017. For more information about this program contact the Ashtabula County Extension office at 440-576-9008.

Ashtabula County Master Gardeners’ Spring Gardening Program at Local Libraries in March
Even though it is still winter, it is not too early to think about spring. The Ashtabula County Master Gardeners would like to invite you to join them at libraries across Ashtabula County during the week of March 18-25. Join teams of the Master Gardener Volunteers to learn more about pollinators, tomatoes and Container & Raised Bed Gardening- The Good, The Bad & The Ugly. The program locations are:
<table>
<thead>
<tr>
<th><strong>Saturday, March 18, 2017</strong></th>
<th><strong>Wednesday, March 22, 2017</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Andover Public Library</strong></td>
<td><strong>Conneaut Public Library</strong></td>
</tr>
<tr>
<td>10:00 to 12:00 noon</td>
<td>1:00 to 3:00 p.m.</td>
</tr>
<tr>
<td>142 West Main Street</td>
<td>304 Buffalo Street</td>
</tr>
<tr>
<td>Andover, Ohio 44003</td>
<td>Conneaut, Ohio 44030</td>
</tr>
<tr>
<td>440-293-6792</td>
<td>440-593-1608</td>
</tr>
<tr>
<td><strong>Kingsville Public Library</strong></td>
<td><strong>Saturday, March 25, 2017</strong></td>
</tr>
<tr>
<td>10:00 a.m. to 12:00 noon</td>
<td><strong>Grand Valley Library</strong></td>
</tr>
<tr>
<td>6006 Academy Avenue</td>
<td>10:00 to 12:00 noon</td>
</tr>
<tr>
<td>Kingsville, Ohio 44048</td>
<td>1 North School Street</td>
</tr>
<tr>
<td>440-224-0239</td>
<td>Orwell, Ohio 44076</td>
</tr>
<tr>
<td></td>
<td>440-437-6545</td>
</tr>
<tr>
<td><strong>Ashtabula Public Library</strong></td>
<td><strong>Rock Creek Public Library</strong></td>
</tr>
<tr>
<td>1:00 to 3:00 p.m.</td>
<td>10:00 a.m. to 12:00 p.m.</td>
</tr>
<tr>
<td>335 West 44th Street</td>
<td>2988 High Street</td>
</tr>
<tr>
<td>Ashtabula, Ohio 44004</td>
<td>Rock Creek, Ohio 44084</td>
</tr>
<tr>
<td>440-997-9341</td>
<td>440-563-3340</td>
</tr>
<tr>
<td><strong>Monday, March 20, 2017</strong></td>
<td><strong>Geneva Public Library</strong></td>
</tr>
<tr>
<td><strong>Harbor-Topky Memorial Library</strong></td>
<td>1:00 to 3:00 p.m.</td>
</tr>
<tr>
<td>1:00 to 3:00 p.m.</td>
<td>860 Sherman Street</td>
</tr>
<tr>
<td>1633 walnut Blvd</td>
<td>Geneva, Ohio 44041</td>
</tr>
<tr>
<td>Ashtabula, Ohio 44004</td>
<td>440-466-4521</td>
</tr>
<tr>
<td>440-964-9645</td>
<td></td>
</tr>
<tr>
<td><strong>Henderson Memorial Library</strong></td>
<td><strong>New Pesticide Applicator Training and Testing Dates for Northeast Ohio</strong></td>
</tr>
<tr>
<td>6:00 to 8:00 p.m.</td>
<td>There are many upcoming opportunities for anyone looking to obtain a new private or commercial pesticide applicators license in Northeast Ohio. OSU Extension will be offering a training session for new applicators that will help participants prepare for the CORE pesticide license exam. The class will be offered on March 14 at the Trumbull County Extension office in Cortland, OH. Both classes are scheduled from 1:00 to 4:30 p.m. and cost $35/person which includes CORE study materials and light refreshments. To register for the Geauga class call 440-834-4656 and to register for the Trumbull class call 330-638-6783.</td>
</tr>
<tr>
<td>54 East Jefferson Street</td>
<td>Pesticide License Exams have been scheduled for the following dates in Ashtabula, Geauga, and Trumbull Counties. To register for the exams visit the Ohio Department of Ag's website (<a href="http://www.agri.ohio.gov/apps/odaprs/pestfert-prs-index.aspx">http://www.agri.ohio.gov/apps/odaprs/pestfert-prs-index.aspx</a>) and choose the date and location that fits your schedule best.</td>
</tr>
<tr>
<td>Jefferson, Ohio 44047</td>
<td>440-576-3761</td>
</tr>
<tr>
<td>440-576-3761</td>
<td></td>
</tr>
</tbody>
</table>

These programs are free however space is limited. Please call your local library to reserve your spot! A program flyer can be accessed at: http://ashtabula.osu.edu/program-areas/master-gardener-volunteers/upcoming-educational-programs. This flyer includes the phone numbers for the libraries. More information can also be received by calling the Ashtabula County Extension office at: 440-576-9008 for more details.
Ashtabula County    March 8th
Geauga County    February 22nd, March 22nd, April 26th, May 24th, and June 28th
Trumbull County    March 13th, April 10th, and May 8th.

*Testing begins at 10am at all locations and dates.

Obtain Your Fertilizer Certification Before September, 2017

Due to Ohio’s new legislation, any farmer who applies commercial fertilizer to 50 or more acres must attend a fertilizer certification class no later than September 30, 2017. The OSU Extension offices in northeast Ohio will be offering 3 hour certification sessions monthly in 2017 so that producers may obtain their certification. Farmers (from any county) are welcome to attend the session which fits their schedule best.

Who needs a fertilizer certification?
Fertilizer certification is required if you apply fertilizer (other than manure) to more than 50 acres used for agricultural production grown primarily for sale. If you have the co-op or other custom applicator make your fertilizer applications, you do not need the certification.

What fertilizer is included in the certification?
Fertilizer is any substance containing nitrogen, phosphorus, potassium, or other plant nutrient in a dry or liquid formulation. All application types (broadcast, side dress, sub-surface, knifing, etc.) are included in the certification requirement. The only application exempted is start-up fertilizers that are applied through a planter. Lime and limestone are not considered fertilizers in the certification process.

Who is exempt from the training requirement?
Applicators who are a Certified Crop Advisor (CCA) or Ohio Certified Livestock Manager (CLM) are not required to attend training to become certified for fertilizer applications. They, however, must register with the Ohio Department of Agriculture.

When do I need the certification?
The certification must be obtained by September 30, 2017.

<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 21, 2017</td>
<td>Ashtabula County Extension Office</td>
<td>6:00 to 9:00 p.m.</td>
</tr>
<tr>
<td>April 12, 2017</td>
<td>Geauga County Extension Office</td>
<td>1:00 to 4:00 p.m.</td>
</tr>
<tr>
<td>May 10, 2017</td>
<td>Trumbull County Extension Office</td>
<td>6:00 to 9:00 p.m.</td>
</tr>
<tr>
<td>June 14, 2017</td>
<td>Ashtabula County Extension Office</td>
<td>9:00 to 12:00 noon</td>
</tr>
<tr>
<td>August 17, 2017</td>
<td>Trumbull County Field Day (location TBD)</td>
<td>9:00 a.m. to 3:00 p.m.</td>
</tr>
<tr>
<td>September 14, 2017</td>
<td>Geauga County Extension Office</td>
<td>1:00 to 4:00 p.m.</td>
</tr>
</tbody>
</table>

There is no registration fee to attend any of the sessions. However, pre-registration is required as only 40 persons can attend each session. All registrations will be handled through the Geauga County Extension office. Mail the registration form to OSU Extension-Geauga County, PO Box 387, Burton, Ohio 44021. You can also call the Geauga County Extension office (440-834-4656) to registration or to obtain more information. A registration flyer can also be obtained at: flyer can be found at:

http://go.osu.edu/ne-events.
2017-2018 Ashtabula County Beef Scholarships Applications Available
OSU Extension and the Ashtabula County Cattlemen’s Association are pleased to announce they will be awarding two youth beef scholarships for the 2017-2018 school year. One $1,000 scholarship will be awarded to a deserving 2017 High School Senior who will be attending an accredited full four year college or an accredited two year technical institute in 2017-2018. In addition, one $500 scholarship will be awarded to a current College Student who is currently attending an accredited full four year college or an accredited two year technical institute.

Applicants must be resident of Ashtabula County. The first preference by the Ashtabula County Cattlemen’s Association is the scholarships be awarded to deserving students who have been involved in the beef industry as a youth. Examples of this could include: working on a family beef operation; involved with a beef project through 4-H or FFA; or works on a local beef farm. The second preference for the scholarship recipients would be awarded to students who are currently or will be studying a beef related field in accredited full four year college or an accredited two year technical institute. Previous winners of the $1,000 High School Senior Scholarship are eligible to apply for the $500 College Scholarship. However, the $500 college scholarship can only be received once by a student during their college career.

Applications must be received by the Ashtabula County Cattlemen’s Association by May 1, 2017 by 4:30 p.m. for consideration for the scholarship. No late applications will be considered. The application can be obtained at: http://go.osu.edu/ne-events. Additional information can be obtained by calling the Ashtabula County Extension office at 440-576-9008.

Donors Sought for 2017 Ashtabula County Ag Day
On May 13, 2016 nearly 1,200 members of the class of 2027 descended on the Ashtabula County Fairgrounds to participate in Ashtabula County’s “Ag Day.” Coordinated by OSU Extension and the Ashtabula County Farm Bureau, the primary goal of this event was to educate first graders on where their food comes from and to showcase the different types of agricultural commodities which are being produced in Ashtabula County.

Ashtabula County’s Ag Day program has become a community supported effort as over 300 volunteers and donors help to make this day a reality for the students. The cost of hosting this event is nearly $11,000 (both monetary and in-kind) and without the support of many this program would not be possible. We are asking local Ashtabula County farms, agribusinesses, and supporters of Ashtabula County Agriculture to consider being a donor for the 2017 Ag Day which will be held on Friday, May 12, 2017. We are once again offering 5 levels of sponsorship:

- Platinum Sponsorship -$1,000 and over
- Gold Sponsorship - $500 to $999
- Silver Sponsorship - $250 to $499
- Bronze Sponsorship - $100 to $249
- Friends of Ag Day - $1 to $99

Woodland Management Field Day to be held on April 8 in Chardon, Ohio
The Ohio Department of Natural Resources will be hosting a Woodland Management Field Day on Saturday, April 8th from 9:00 a.m. to 1:00 p.m. at the Hambden Orchard Wildlife Area on Sisson Road in Chardon, Ohio. ODNR Service Forester Aaron Kash, ODNR Private Lands Wildlife Area on Sisson Road in Chardon, Ohio. ODNR Service Forester Aaron Kash, ODNR Private Lands Biologist Ryan Jackson, and NRCS District Conservationist Jonathan Mauk will be offering a morning field day to discuss and demonstrate options for private woodland management. Various aspects of wildlife habitat, forest management/timber harvesting, and conservation practices will be covered. This event is being held in the woods in previously harvested areas so appropriate footwear and attire will be necessary. This event is FREE but you must register by calling 440-564-5883 or emailing aaron.kash@dnr.state.oh.us
Hydrangea School to be Held on May 3, 2017 in Jefferson, Ohio
The Ashtabula County Extension office is pleased to be offering a Hydrangea School on Wednesday, May 3, 2017 at the Ashtabula County Extension Office located at 39 Wall Street in Jefferson, Ohio from 6:30 to 8:30 p.m. Join OSU Extension Educator Eric Barrett to discover the world of hydrangeas. Learn about types, care, pruning and bloom times. You’ll receive a quick reference chart to take to the garden center and a hydrangea plant to take home. The registration fee for this workshop is $30 per person. Please make checks payable to OSU Extension. Registration includes handouts, light refreshments and a hydrangea plant to take home for your landscape. Please mail completed registration form to OSU Extension, 39 Wall Street, Jefferson, Ohio 44047. Due to space limitations, this program will be limited to the first 50 registrants. First come, first served basis. For questions, please call 440-576-9008. A registration flyer can also be obtained at: http://go.osu.edu/ne-events.

David’s Weekly News Column
Published in the Jefferson Gazette on March 1, 2017 and the Ashtabula County Star Beacon on March 5, 2017.

Hello Ashtabula County! It is officially March! Although last week I could have sworn it was May! I cannot believe how quickly February flew by. However, I am excited to see March arrive as we have a whole host of Extension workshops, banquets, and conferences slated for this month. March is our “go-time” for education because once the calendar flips to April, our farmers will turn their attention towards planting season. Today, I would like to remind producers about the upcoming registration deadlines for the Northeast Ohio Agronomy School, 67th Annual Ashtabula County Dairy Banquet and our March Fertilizer Certification workshop.

The March 8 registration deadline is drawing near for the “2017 Northeast Ohio Agronomy School” scheduled for Wednesday, March 15 from 9:30 to 3:30 p.m. at the Williamsfield Community Center in Williamsfield, Ohio. Seven different speakers will be on hand to discuss the major issues impacting corn and soybean production in northeast Ohio.

During the morning session, participants will learn how to comply with the revised Worker Protection Standards; how to manage herbicide-resistant weeds; and how to develop a Success Score Card for your farm business. Then in the afternoon, producers will learn more about white mold in soybeans, the economic payback of seed treatments, small grain diseases, corn ear diseases, Cry1F failures in corn, and how producers can reduce nitrogen costs by side dressing with manure.

As always, a hearty farmer lunch prepared by Lahti Catering means attendees will not go away hungry! This lunch is sponsored by W.I. Miller & Sons of Farmdale, Ohio. The registration fee for this workshop is $10.00/per person and is required by Wednesday, March 8. Make checks payable to OSU Extension, and mail to Ashtabula County Extension office, 39 Wall Street, Jefferson, OH 44047. A registration flyer can be found at: http://go.osu.edu/ne-events More information can be received by calling the Ashtabula County Extension office at 440-576-9008.

A reminder the 67th Annual Ashtabula County Dairy Banquet will be held on Saturday, March 18 at the Augustus Center at Camp Beaumont located at 2429 State Route 45 in Rock Creek, Ohio beginning promptly at 7 p.m. The banquet program will consist of the crowning of the 2017 Dairy Princess; the presentation of production and 4-H awards; and the election of two members to the Dairy Service Unit Board.
Tickets are $15 per person and can be purchased from Dairy Service Unit Board members, Tom Coltman of Wayne, Joel Baldwin of Sheffield; Jason Brinker of Rock Creek; Lindsey Zaebst Gray of Roaming Shores, Lisa Kalas of Jefferson; and from David Marrison at the Ashtabula County Extension office at 39 Wall Street in Jefferson. Pre-sale tickets should be purchased your ticket by Friday, March 10. For more information about this program contact the Ashtabula County Extension office at 440-576-9008.

Due to Ohio's new legislation, any farmer who applies commercial fertilizer to 50 or more acres must attend a fertilizer certification class no later than September 30, 2017. Our next certification session will be held on Tuesday, March 21 from 6:00 to 9:00 p.m. at the Ashtabula County Extension office in Jefferson. There is no registration fee to attend; however, pre-registration due to space limitations. All registrations for our fertilizer certification programs are being handled through the Geauga County Extension office. Call the Geauga County Extension office at 440-834-4656 to register. Additional sessions for our region will be held on April 12, May 10, June 14, August 17 and September 14. A registration flyer can be obtained at: http://go.osu.edu/ne-events.

To close, I would like to share a quote from Billy Graham who stated, “The greatest legacy one can pass on to one's children and grandchildren is not money or other material things accumulated in one's life, but rather a legacy of character and faith.” Have a good and safe day.

Phenology is a Garden Calendar
By the Ashtabula County Master Gardeners
Spring comes and do you ever wonder if it's too early or too late to plant a crop? In Ohio we always hear that it's safe to plant on Memorial Day because the frost danger is over. Are there other hints or clues in Nature to tell us the best time to plant, fertilize, prune or spray for insects?

Phenology may be better than any calendar. Its name is derived from the Greek word phaino meaning to “show” or to “appear” and it is Nature's timing of seasonal events such as the flowering of plants. These events can vary from year to year – an early warm spring can indicate that it's time to plant, while a cool wet spring could suggest we wait awhile. Some call these observations folklore, others call them advice passed down from grandfather to granddaughter (or blind luck). Many scientists agree that there is logic to some of these observations. So observe, and let Nature tell you when to plant.

Lilacs are an especially popular indicator in phenology. When the lilac bush gets its first leaves, it's time to plant beets, carrots, lettuce and spinach. When that lilac is in full bloom, push beans seeds into the soil, and as that lilac bush starts to fade, plant cucumber and squash seeds. Other examples of planting linked to phenology are:

- Plant corn when oak leaves are the size of a squirrel's ear or plant when apple blossoms start to fall. The soil will be warm enough for the seeds to sprout.
- Plant spinach, beets, onions, peas and swiss chard when forsythia or daffodils are blooming.
- Hate dandelions? Well, if they're starting to bloom, it's time to plant lettuce and carrots.
- Plant potatoes when oak leaves are the size of cat's ears.
- Plant cabbage and broccoli when the mock orange is in full bloom or after dogwoods have dropped their flowers because there is less
chance of the crops being damaged by root maggots.

- It's time to transplant eggplant, melons and peppers when iris or peonies bloom.
- When a maple tree starts to unfurl its leaves, it's safe to plant perennial flowers.
- Direct seed marigold or zinnia when the black locust trees are in bloom.
- And, lastly, put in your tomato plants when the day lilies and lily of the valley plants are in full bloom.

Phenology helps in other areas besides planting the garden. Prune your roses for the first time in spring when the forsythia are in bloom. Fertilize your lawn when the lilacs or forsythia bloom. Crab grass preventative can be spread when forsythia bloom. When Canadian thistles are in bloom, apple maggot adults are abundant and susceptible fruit should be protected. So look around, observe Nature, play detective and keep a Nature's notebook or calendar. Keep track of your own observations and planting schedule and see if Nature can help you become a better gardener.

**Upcoming 2017 Winter Extension Program Dates**
The following programs have been scheduled for Northeast Ohio farmers this upcoming winter. Complete registration flyers can be found at: [http://ashtabula.osu.edu/program-areas/agriculture-and-natural-resources/upcoming-educational-programs-deadlines](http://ashtabula.osu.edu/program-areas/agriculture-and-natural-resources/upcoming-educational-programs-deadlines)

- **Basics of Pruning Landscape Plants**
  March 9th at the Trumbull County Extension Office

- **New Pesticide Applicator Training**
  March 14th at the Trumbull County Extension Office

- **2017 Northeast Ohio Agronomy School**
  March 15 at the Williamsfield Community Center

- **2017 Northeast Ohio Grape School – A Focus on Pinot Gris**
  April 18 at Virant’s Winery

- **Last Chance Pesticide Re-certification Session**
  March 16 at the Geauga County Extension office

- **Northeast Ohio Winter Beef Clinic**
  March 23 at the Ashtabula County Extension office

- **2017 Ashtabula County Dairy Banquet**
  Saturday, March 18 at Camp Beaumont

- **Chainsaw Safety Class**
  April 8 at the Trumbull County Extension Office

- **2017 Joe Bodnar Memorial Northern Classic Steer & Heifer Show**
  Saturday, April 22 at the Ashtabula County Fairgrounds

- **Hydrangea School**
  Wednesday, May 3 at the Ashtabula County Extension office
<table>
<thead>
<tr>
<th><strong>David Marrison</strong></th>
<th><strong>Lee Beers</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ashtabula County Extension Office</td>
<td>Trumbull County Extension Office</td>
</tr>
<tr>
<td>39 Wall Street</td>
<td>520 West Main Street</td>
</tr>
<tr>
<td>Jefferson, OH 44047</td>
<td>Cortland, OH 44410</td>
</tr>
<tr>
<td>440-576-9008</td>
<td>330-638-6783</td>
</tr>
<tr>
<td><a href="mailto:marrison.2@osu.edu">marrison.2@osu.edu</a></td>
<td><a href="mailto:beers.66@osu.edu">beers.66@osu.edu</a></td>
</tr>
<tr>
<td>ashtabula.osu.edu</td>
<td>trumbull.osu.edu</td>
</tr>
</tbody>
</table>
2017 Northeast Ohio Winter Agronomy School

Wednesday, March 15, 2017
9:30 a.m. to 3:30 p.m.

Williamsfield Community Center
5920 State Route 322
Williamsfield, Ohio 44093
Registration begins at 9:00 a.m.

Join OSU Extension as we host our annual Agronomy School for crop farmers in Northeast Ohio. With profit margins decreasing it will be vital for crop producers to get the biggest bang from the dollars they invest in land rental, seed and fertilizer, technology, chemicals, and crop protection. This workshop is sponsored by the OSU Extension offices in Ashtabula, Trumbull & Geauga Counties with support from W.I. Miller & Sons & the Ohio Soybean Council. The following presentations will be featured during the program:

Complying with the New Worker Protection Standards
David Marrison - OSU Extension Educator for Ashtabula County

Herbicide Resistant Weed Control
Les Ober – CCA & OSU Extension Program Assistant for Geauga County

Success Score Card – Benchmarking for Profit
Russ Coltman – Founder of Coltman Information Management

Lunch & Industry Trade Talks
Sponsored by W.I. Miller & Sons of Farmdale, Ohio

White Mold Research Update & Seed Treatments-Are They Worth it?
Dr. Anne Dorrance – OSU Professor in Soybean Pathology

Small Grain Diseases & Corn Ear Diseases
Dr. Pierce Paul – OSU Associate Professor in Cereal Grain Pathology

Western Bean Cutworm & Cry1F Failures
Dr. Andy Michel – OSU Associate Professor & OSU Extension Field Crops Entomologist

Manure Research Update & Capitalizing on Manure from Your Neighboring Dairy Farmer
Glen Arnold – OSU Extension Field Specialist Manure Nutrient Management Systems

Pre-registration is required by March 8, 2017. Registration fee is $10.00/per person. Registration includes refreshments, lunch, speaker travel expenses, and program handouts. Make checks payable to OSU Extension, and mail to Ashtabula County Extension office, 39 Wall Street, Jefferson, OH 44047. If you have any questions please call 440-576-9008. 2017 Weed Control Guides will be on sale for $16 at the workshop.

Name____________________________________  Phone________________ _____
Address__________________________________  City________________ __ Zipcode________
Email____________________________________
# of Reservations_______________$10 per RSVP  _____Yes, pre-order a Weed Control Guide for me
Complying with the New Worker Protection Standards – David Marrison, OSU Extension Educator, will help producers learn how to comply with revised Worker Protection Standards which went into effect on January 1, 2017. Learn about the new training requirements, medical fit tests, and the WPS record keeping requirements. 9:30 to 10:15 a.m.

Herbicide Resistant Weed Control – Les Ober, CCA & Program Assistant for OSU Extension Geauga County, will share strategies for managing herbicide resistant weeds along with an update on Palmer amaranth. The discussion will include control options including Roundup, Liberty and the new ExtendiMax Herbicide programs. 10:15 to 11:00 a.m.

Success Score Card – Benchmarking for Profit - Russ Coltman, Founder of Coltman Information Management, will share how producers can develop a Success Score Card for their farm. Learn how to rate your Financial, Leadership, Marketing, Production, Technology and Wellness Skills and how each can drive or stall your business. 11:00 to 11:45 a.m.

Lunch & Industry Trade Talks - As always, a hearty farmer lunch prepared by Lahti Catering means you will not go away hungry! This lunch is sponsored by W.I. Miller & Sons of Farmdale, Ohio. Each of our program sponsors will provide a short industry update during lunch. Lunch & trade talks will be held from 11:45 a.m. to 12:30 p.m.

White Mold Research Update & Seed Treatments-Are They Worth it? – Dr. Anne Dorrance, OSU Professor in Soybean Pathology, will provide an update on OSU Extension’s research on white mold. Learn how to minimize this disease in your soybean fields. Producers will also learn more about seed treatments and if there is an economic payback to using them. 12:30 to 1:15 p.m.

Small Grain Diseases & Corn Ear Diseases- Dr. Pierce Paul, OSU Associate Professor in Cereal Grain Pathology, will provide an update on small grain diseases and share information on some of the corn ear diseases which are being seen across Ohio. 1:15 to 2:00 p.m.

Western Bean Cutworm & Cry1F Failures – Dr. Andy Michel, OSU Associate Professor & Field Crop Entomologist, will share tips for dealing with insects in your field crops. Learn more about Western Bean Cutworm and learn about some of the Cry1F failures experienced in Ohio. 2:00 to 2:45 p.m.

Manure Research Update & Capitalizing on Manure from Your Neighboring Dairy Farmer- Glen Arnold, OSU Associate Professor & Field Specialist Manure Nutrient Management Systems, will be on hand to share the results from manure application studies and how producers can reduce nitrogen costs by side dressing with manure from a neighboring dairy farm. 2:45 to 3:30 p.m.
This chainsaw safety course offered by OSU Extension Trumbull County will demonstrate safe chainsaw handling and operating techniques for home/landowners. The course will start off with an overview of basic safety equipment before covering basic chainsaw maintenance for safe use. We will wrap up with a live demonstration of safe tree felling and bucking techniques.

Pre-registration is requested by April 5th to ensure minimum numbers. Cost for the Chainsaw Safety Class is $30/person. To pay at the door call 330-638-6783 to pre-register, or to pre-pay complete the following information and send with payment to OSU Extension Trumbull County, 520 West Main St., Suite #1, Cortland, OH 44410. We will be outside for demonstrations, so please dress accordingly.

Name(s): ________________________________________________________________
Phone & Address: __________________________________________________________
Email: __________________________________________________________________
Number attending/amount enclosed: ________________________________________
Pruning Landscape Plants
Featuring Jim Chatfield

Thursday,
March 9, 2017
10am – Noon

Trumbull County Ag Center
520 West Main St.
Cortland, OH 44410

Cost: $15/person Pre-Registration is requested

Call 330-638-6783 for more information

Join us on Thursday, March 9th to learn how to properly prune and maintain your landscape plants. Jim Chatfield (OSU Extension Specialist) will start the day off with a brief introduction to pruning inside before we move outside for hands-on pruning demonstrations around the Ag Center. This will be a great opportunity to ask learn from an expert and ask questions about your own pruning needs. Please dress for the weather as we will be outside for a large portion of the event.

To register, complete the back side of the flyer and mail with payment to OSU Extension, 520 West Main St, Suite 1, Cortland, OH 44410. Please make checks payable to OSU Extension. Payment can be made at the door on the day of the event, but please call 330-638-6783 to register in advance if you plan to attend.
Hello Small Farm Enthusiast!

This intensive conference will give you the opportunity to choose from different seminars taught by Extension professionals and industry leaders on a wide variety of agricultural enterprises. A tradeshow representing the many industries servicing small farms will be present for you to visit during Saturday hours.

Saturday’s agenda will provide many opportunities for you to attend the informative sessions of your choosing. Saturday’s program will begin at 8:00 am with registration, the trade show, and morning refreshments.

Online registration & session details available at: http://agnr.osu.edu/small-farm-programs

---

**CONFERECE SCHEDULE**

8:00 - 9:00 am: Registration

9:00 - 9:15 am: Opening Comments, Tony Nye, OSU Extension Small Farm Coordinator

**SESSION INFORMATION**

All session tracks will take place at the R.G. Drage center, with one exception:

The 9:30 am Super Session on Vegetable Production/Season Extension with Tunnels - Participants will meet at the OARDC Vegetable Productions System high tunnels located behind the State Highway Patrol Building 1540 Dover Road (SR 250) past the OSU-ATI campus.

9:30 am: Session Tracks Begin
- see track listings on back of brochure

11:45 am - 1:00 pm: Lunch & Trade Show

1:15 pm - 3:45 pm: Session Tracks
- see track listings on back of brochure

**REGISTRATION and SESSION DESCRIPTIONS** can be found online at: agnr.osu.edu/small-farm-programs

For more information, contact:
- Rory Lewandowski (330) 264-8722
  lewandowski.11@osu.edu
- Tony Nye (937)382-0901
  nye.1@osu.edu

---

**CONFERENCE DEADLINE** is MARCH 17th.
Please copy and enclose a separate registration form for each person attending.

**CONFERENCE COST:** $60.00

*note: a combined discount fee is being offered to women attending both this conference and the “Women in Ag” conference. A student discount is also available. See registration form.

Make check payable to:
OSU Extension - Small Farm.
* We cannot refund any registration fees.
* No confirmation will be sent.

R.G. Drage Career Technical Center
2800 Richville Dr SW, Massillon, OH 44646

**FROM THE NORTH:**
- Interstate 77 South to US 30 W to Richville Drive Exit, turn right
- SR 21 South to U.S. 30 East to Richville Drive Exit, turn left

**FROM THE SOUTH:**
- Interstate 77 North to US 30 West, take Richville Drive Exit, turn right
- SR 21 North to U.S. 30 East, take Richville Drive Exit, turn left

---

**NORTHEAST OHIO REGISTRATION**

- Use one form per person.
- Send to: OSU Extension Coshocton County 724 South 7th Street, Room 110 Coshocton, Ohio 43812
- Deadline for registration: March 17, 2017

Name:____________________________________
Address:__________________________________
____________________________________________
City/State/Zip:________________________________
Phone _____________________________________
Email: ________________________________

CHOOSE DATE / SESSIONS HERE:

- I am attending: ___ Saturday only ($60.00)
- ___ Women in Ag Conference and the Small Farm Conference (combined price of $100.00)

- ___ I am eligible for a student discount

STUDENT DISCOUNTS  COST
- Small Farm Only $30.00
- “Women in Ag” and Small Farm $50.00

Indicate class number (#) for Saturday:
- 9:30 am Session #: __________
- 10:45 am Session #: __________
- After-lunch:
  - 1:15 pm Session #: __________
  - 2:30 pm Session #: __________
## 2-HOUR SUPER SESSIONS

<table>
<thead>
<tr>
<th>#</th>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
</table>
| 1  | 9:30 AM| Vegetable Production/Season Extension with Tunnels
        *will start at OARDC high tunnels*                                                                 | Matt Kleinhenz, OSUE Vegetable Specialist                                                           |
| 2  | 9:30 AM| Using and Maintaining Your Chainsaw Safely                             | Lee Beers, OSUE Trumbull County                                                                      |

## 1-HOUR SESSIONS

### HORTICULTURE

<table>
<thead>
<tr>
<th>#</th>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2:30 PM</td>
<td>Pesticide Application with Backpack &amp; Handheld Sprayers</td>
<td>Rory Lewandowski, OSUE Wayne County</td>
</tr>
<tr>
<td>4</td>
<td>10:45 AM</td>
<td>Disease Management and Prevention: Tree Fruit</td>
<td>Melanie Ivey, OSUE Fruit Pathologist</td>
</tr>
<tr>
<td>5</td>
<td>1:15 PM</td>
<td>Disease Management and Prevention: Small Fruit</td>
<td>Melanie Ivey, OSUE Fruit Pathologist</td>
</tr>
<tr>
<td>6</td>
<td>2:30 PM</td>
<td>Hands-on Fruit Tree Pruning</td>
<td>Eric Barrett, OSUE Mahoning County</td>
</tr>
<tr>
<td>7</td>
<td>10:45 AM</td>
<td>Utilizing Urban Land for Garden Markets</td>
<td>Jacqueline Kowalski, OSUE Summit County</td>
</tr>
<tr>
<td>8</td>
<td>2:30 PM</td>
<td>Micro Greens Production</td>
<td>Jacqueline Kowalski, OSUE Summit County</td>
</tr>
<tr>
<td>9</td>
<td>9:30 AM</td>
<td>Vegetable Disease Diagnostics</td>
<td>Erika Lyon, OSUE Jefferson/Harrison Counties</td>
</tr>
</tbody>
</table>

### LIVESTOCK & AQUACULTURE

<table>
<thead>
<tr>
<th>#</th>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>9:30 AM</td>
<td>Grass-fed Beef</td>
<td>Greg Hoffman, Heritage Hills Farm</td>
</tr>
<tr>
<td>11</td>
<td>2:30 PM</td>
<td>Sheep or Goats? That is the Question</td>
<td>Sandy Smith, OSUE Carroll County</td>
</tr>
<tr>
<td>12</td>
<td>1:15 PM</td>
<td>Home Poultry Production</td>
<td>Sandy Smith, OSUE Carroll County</td>
</tr>
<tr>
<td>13</td>
<td>1:15 PM</td>
<td>Aquaculture Opportunities in NE Ohio</td>
<td>Matt Smith, Extension Aquaculture Specialist</td>
</tr>
</tbody>
</table>

### MANAGEMENT

<table>
<thead>
<tr>
<th>#</th>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>1:15 PM</td>
<td>Small Farm Equipment: Prioritizing What to Purchase</td>
<td>Matt Kleinhenz, OSUE Vegetable Specialist</td>
</tr>
<tr>
<td>15</td>
<td>10:45 AM</td>
<td>Renting and Leasing Farmland</td>
<td>Chris Zoller, OSUE Tuscarawas County</td>
</tr>
<tr>
<td>16</td>
<td>2:30 PM</td>
<td>Farm Business Plans</td>
<td>Chris Zoller, OSUE Tuscarawas County</td>
</tr>
<tr>
<td>17</td>
<td>9:30 AM</td>
<td>So You Think You Want to Farm</td>
<td>Clifton Martin, OSUE Muskingum County</td>
</tr>
<tr>
<td>18</td>
<td>1:15 PM</td>
<td>Small Farm Tax Issues and Considerations</td>
<td>David Morrison, OSUE Ashtabula County</td>
</tr>
<tr>
<td>19</td>
<td>1:15 PM</td>
<td>Financing My Niche Farm</td>
<td>Darren Metzger, USDA FSA</td>
</tr>
</tbody>
</table>

### MARKETING & SELLING

<table>
<thead>
<tr>
<th>#</th>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>2:30 PM</td>
<td>Opportunities to Sell from Home and Farm</td>
<td>Emily Adams, OSUE Coshocton</td>
</tr>
<tr>
<td>21</td>
<td>10:45 PM</td>
<td>Reducing Barriers for Ohio’s Direct Marketers</td>
<td>Emily Adams &amp; Eric Barrett, OSU Extension</td>
</tr>
<tr>
<td>22</td>
<td>9:30 AM</td>
<td>Marketing Goals: What Consumers Want/Ethnic Markets</td>
<td>Tony Nye, OSUE Clinton County</td>
</tr>
<tr>
<td>23</td>
<td>2:30 PM</td>
<td>Growing Your Farm to School Connection</td>
<td>Heather Niekrich, OSUE Stark County</td>
</tr>
</tbody>
</table>

### NATURAL RESOURCES

<table>
<thead>
<tr>
<th>#</th>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>9:30 AM</td>
<td>Solar Energy Considerations</td>
<td>Eric Romich, OSUE Energy Ed. Field Specialist</td>
</tr>
<tr>
<td>25</td>
<td>10:45 AM</td>
<td>Pond Management and Care</td>
<td>Gary Graham, OSUE Holmes County</td>
</tr>
<tr>
<td>26</td>
<td>1:15 PM</td>
<td>Hobby Maple Sugar Production</td>
<td>Gary Graham, OSUE Holmes County</td>
</tr>
<tr>
<td>27</td>
<td>10:45 AM</td>
<td>Introduction to Growing Shiitake Mushrooms</td>
<td>Jerry Iles, OSUE Fairfield County</td>
</tr>
</tbody>
</table>