Hello Northeast Ohio Counties!

Thanks for the great participation at the Pesticide and Fertilizer re-certification session last Friday in Trumbull County. If you missed this session and still need to be re-certified, we will have three more sessions in Northeast OH in the coming months.

Are your tires properly inflated? If not, you could be causing unnecessary compaction.

In This Issue:

- Big Fed Cattle Price Rally to End Year
- Big Agribusiness Firms Move Toward Biologicals, away from Chemical-based Farming
- Reducing Tire Stubble Damage
- Farmer Lunch Series Returns for 2020
- Upcoming Events

Lee Beers
Trumbull County
Extension Educator

Andrew Holden
Ashtabula County
Extension Educator

Angie Arnold
Portage County
Extension Educator
Big Fed Cattle Price Rally to End Year
By David P. Anderson, Professor and Extension Economist, Texas A&M AgriLife
Extension Service
Source: https://u.osu.edu/beef/2020/01/08/big-fed-cattle-price-rally-to-end-year/

And kept it going to begin the new year. Rising fed cattle prices continued their run into the first week of the new year, hitting $124-125 per cwt.

Fed cattle prices tend to increase seasonally from late summer lows to the end of the year. It’s also not uncommon for prices to weaken between Thanksgiving and Christmas and again in February before the Spring rally. Fall’s price rally has been stronger than average. Over the 2013-2017 5-year period the average rally has been about $11 per cwt, or 8.8 percent, from the last summer low to the end of the year. The Fall rally in 2018 totaled $15 per cwt or a 14 percent increase. The ongoing rally that began in the Fall of 2019 increased just over $22 per cwt or a 22.6 percent increase. The fed cattle market gained another $2 per cwt in the first week of the year.

Rising prices have occurred as slaughter has risen, as well. For the fourth quarter of 2019, fed steer and heifer slaughter were just barely above a year ago, about half a percent higher. Fed heifer slaughter was up about 4 percent from the 4th quarter of 2018. Fed steer slaughter was down about 4 percent from a year ago during the 4th quarter. Fed cattle movement ramped up in December with total steer and heifer slaughter up about 5 percent. It’s worth noting the reopening of the fed cattle plant in early December. That has contributed to packer demand for fed cattle helping to boost fed cattle prices and slaughter. All cow slaughter was up almost 7 percent. All of the increase in cow slaughter during the quarter came from beef cows, as dairy slaughter declined from a year ago.

Both steer and heifer weights are higher than a year ago with some double-digit weekly increases. Combined with slaughter levels results in an increase in beef production. The weight increases have likely contributed to more cattle grading Choice. Increased Choice beef production has pushed the Choice-Select spread down to under $5 per cwt. Only a few weeks ago the spread was over $25 per cwt.

With more cattle on feed than a year ago, we should expect large levels of fed cattle slaughter to continue into the new year. Weights continuing above a year ago will keep beef production higher in the coming weeks, as well.
Big agribusiness firms move toward biologicals, away from chemical-based farming
By Scott E. Rupp

Is agribusiness going green? Increasingly, the sector appears trained on becoming more natural and sustainable compared to chemical alternatives. The change is driven by consumers demanding non-genetically modified foods and concerns over Big Ag’s role in pollution and chemical waste.

These changes are being made possible by innovations and developments with beneficial microorganisms in the soil, including seed coatings of naturally occurring bacteria and fungi that can do the same work as traditional chemicals. This may include warding off pests to helping plants flourish, per a global patent study by research firm GreyB Services.

Regulators continue to wrestle with tightening rules around chemical use in agribusiness, and lawsuits are leading to potential major corporate payouts to those who can convince juries that such chemical-based compounds are dangerous. There is pending litigation against Bayer AG, for example, over whether its glyphosate-containing product, Roundup, causes cancer.

The German agriculture and healthcare giant said in October that the number of cases alleging the company’s glyphosate-based herbicides cause cancer more than doubled over the past three months, to 42,700.

“Bayer has been sucked into a legal quagmire after it paid $63 billion last year for U.S. seeds company Monsanto, acquiring Roundup and other glyphosate-based weed killers as part of the deal,” Fortune reported. “Three U.S. juries have ruled against Bayer in cases brought by Americans alleging Monsanto’s popular herbicide caused their cancer,
sending Bayer shares plummeting by 30% since the deal closed in the summer of 2018.”
News reports suggest that any settlement reached in these talks may reach as high as
$20 billion. Some analysts estimate the final amount as not quite that high but still running into the billions of dollars.

In 2015, a World Health Organization body found that glyphosate could “probably”
cause cancer in humans, although U.N. experts found the following year that glyphosate
was unlikely to pose a cancer risk to humans exposed to it through their diet.
In April, the Environmental Protection Agency (EPA) said there were no risks to public health when glyphosate was used in line with recommendations and that glyphosate was not a carcinogen.

Bayer insists its products are safe, but the litigation is having an obvious effect on the
future of its production.

“Both entrepreneurs and investors are saying, ‘Hey, the writing is on the wall, we’re
entering a post-chemical world,’” said Rob LeClerc, chief executive officer of AgFunder,
an online venture-capital platform in an interview with Bloomberg. “The seed companies
who have billions in market cap are like ‘We need to do something,’ and everyone
recognizes the opportunity.”

The global fertilizer and pesticide market are around $240 billion and grows 2 to 3% a
year.

Walmart Inc., for example, and non-governmental organizations are following consumer
demand and making their own pushes for less chemical-intensive farming methods.
These entities are putting their economic muscle behind developing organic foods with
environmental or animal welfare in mind.

As population increases worldwide, the demand for agricultural products is projected to
grow 15% over the next decade, according to a joint report by the Organization for
Economic Cooperation and Development and the United Nations’ Food and Agriculture
Organization.

“There’s a growing world population and how are we going to feed all of these people?”
Craig Forney, assistant director for licensing and business development at Iowa State
University in Ames, Iowa, told Bloomberg. “At the same time, we want to protect the
environment. We need to use land better and use the resources better.”

Forney says the outcome is “intensified agricultural production to increase productivity
of land and do it with minimal chemical support.”
Companies like BASF SE, Bayer and Syngenta AG have patents on products using naturally occurring microbes to help crops flourish even when there is low water availability. The microbes can act as catalysts to encourage growth. Biological-based fungicides and insecticides can also help reduce crop damage from insects, slugs and fungi.

“Seed-applied biological products can extend the window of disease and pest protection, while some also provide alternate modes of action that can reduce the buildup of resistance, aid with nutrient management and reduce plant stress,” said Chris Judd, BASF’s global strategic marketing manager for seed treatment, inoculants and biologicals.

Per Bloomberg reporting and a review of the landscape by independent analysts and researchers, many new patents are being issued to companies like BASF, Bayer and Dow Inc. for more natural ways of managing pests including pheromones that deter breeding and reflective mulches, instead of chemical-based insecticides. Bayer sees “high growth potential” for biologicals, citing a challenging regulatory environment for chemicals and a growing emphasis on sustainability in agriculture. Bayer has a research and development team solely focused on them.

In 2013, BASF acquired seed-treatment supplier Becker Underwood to help it ensure a leadership position in biological agents to fight bacteria and fungi. More patents and research by the agribusiness companies shows a trend toward the promotion of organic and non-GMO farming, said Nicole Kling, a patent agent with Nixon Peabody who specializes in the biotechnology field.

The hope of these organizations is to, eventually, develop organic and non-GMO products that are just as productive as those chemical-based products being used by the big agribusiness companies.

Additionally, scientists continue working on new plant varieties, with applications for new varieties up 9% in 2018, according to the World Intellectual Property Organization. China is leading the effort, with more than a quarter of the applications for new varieties. Others are not far behind, biotech research in the U.S., China, Germany, Japan and South Korea. Demand for more food will be greatest in Africa, India and the Middle East.
Reducing Tire Stubble Damage
By James J. Hoorman,
Source: [https://www.ocj.com/2020/01/reducing-tire-stubble-damage/](https://www.ocj.com/2020/01/reducing-tire-stubble-damage/)

Tire damage from harvested crop residue is a major problem. Due to genetic modifications, higher corn populations with more stalks, and low cutting heights the shorter stiffer stubble causes tire damage. Stalks cut 3 inches to 5 inches high do not allow the tires to push the stalk over to minimize tire penetration, creating a “field of rebar” that the tires have to cross. The strength of the stalks combined with changing harvesting techniques, leave shorter stalks and increased tire wear and is especially prevalent with certain corn and soybean varieties.

Soil health can play an important role in stubble decomposition. Soil temperatures above 50 degrees F, adequate moisture, and healthy fungus speed up crop residue decomposition. Unfortunately, longer maturity crops, late harvest (colder temperatures), and fungicide application are negative factors in stubble decomposition. Utilizing early maturing crop varieties and limiting fungicide application helps decompose stubble. Harvesting corn high (below the ear) and leaving the stalk standing followed by crimping with a crop roller will reduce tire damage. Rolling the stalk over reduces tire puncture and keeps the stalk and leaves from blowing away. Rolling crop stubble also prevents crop residue from clogging ditches and improves the habitat for beneficial soil organisms.

Tire manufacturers offer several options to reduce tire stubble damage. Front tractor tires are replaced three to four times faster than rear tractor tires due to crop stubble penetration. Front tires take more of the hit, knocking down stalks ahead of rear tires. Solution: get something in front of the tractor or combine to knock down the stalks, which may double or triple the tire life. Combines, tractors, grain carts, drills, and planter tires, wagons, and semi-trucks and trailers can all be affected by stiff stubble strength and tire damage.

Stubble or stalk stompers lay over the crop residue and are common on combines. Corn headers with steel sliders and steel rollers in front of tires efficiently bend stalks before it penetrates the tire. This is the single most important technological thing a producer can do to reduce stubble damage.

Often, depending on the size, structure and geometry of the tire tread pattern, the crop stubble is clamped and guided to the tire surface. The result is high contact pressure with the possibility of damage. If the tire survives the first 1,000 hits, more will come and cause cavitation at the rubber surface. To minimize this risk, the pattern shape or tread design can be optimized. A 45-degree orientation of the lugs is better than 23 degrees. The higher angled tire lugs allow the crop residue to slide off the tire rather than puncturing the tire.
Stubble damage occurs in two ways. It either cuts and penetrations to the tread or the sidewall or it causes small chips of rubber to be dislodged from the tread area through repeated stubble chipping. This damage eventually leads to exposure of the tire cords and the need for tire replacement. Tire damage occurs when tires are run over rows rather than in between rows, so selecting a narrow tire that fits between rows may help. Wider tires run over the rows have more damage to a small portion of the tread, and may require tire replacement.

The main components of tires are rubber and fabric. Tires can only take a limited amount of abuse before failing. As rubber ages, it hardens and makes the tire more resistant to stubble damage. Stubble resistant compounds are used in some agricultural tires for resiliency. Steel belts are tire components that resist puncture. If you are having issue with punctures through the tread, steel belts are an important tire construction attribute to reduce this issue. Other issues that farmers can look into are reducing air pressure on tires and looking at the balloon ratio of tires. These items are too complicated to sufficiently address in this article but warrant more farmer research.

In short, to reduce stubble damage to tires use a knock down mechanical device, look to purchase tire with higher angle lug to deflect, and check to see if tire has steel belt construction to reduce punctures. Go to https://agtiretalk.com/reduce-stubble-damage-tire-manufacturers-answer/ for more information on how to reduce stubble damage in tires.

Trumbull County Farmer Lunch Series Returns for 2020

OSU Extension, Trumbull SWCD, and USDA-NRCS have teamed up again to offer a series of educational luncheons in 2020. We’ll kick off the series on January 15th with a discussion on the agronomic and legal requirements for growing industrial hemp. On February 19th we’ll be talking about how to implement grass waterways to prevent erosion which is highly relevant with our recent bouts of heavy rains creating washouts throughout the region. We will be taking a break in March and hope you attend our NE Ohio Agronomy School on March 11th, but we’ll be back on April 15th with a farmer discussion on cover crops and what works in our region, and what does not. Each of these events is $5/person and this includes lunch. Lunch is again sponsored by the Trumbull County Holstein Club to keep costs down. The programs start at 11:30A.M. and will conclude by 1:00P.M. If you would like to register or have further questions, please call 330-638-6783 or email beers.66@osu.edu.
**Upcoming Events**

**January 15, 2020 11:30AM**
Trumbull Farmer Lunch Series – Hemp: What You Need to Know

**February 19, 2020 6 – 9 P.M.**
Fertilizer Applicator Certification Training (New Applicators)

**January 16, 2020 1:00 PM**
New Pesticide Applicator Training – Jefferson, OH

**March 11, 2020 9AM to 3PM**
Northeast Ohio Agronomy School – Bristolville, OH

**January 22, 2020 11AM**
Trumbull Dairy Discussion Economic Updates

**February 12, 2020 11:30AM**
Trumbull Farmer Lunch Series – Grass Waterways for Erosion Control

**April 15, 2020 11:30AM**
Trumbull Farmer Lunch Series – Cover Crops – A Farmer Discussion

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CFAES provides research and related educational programs to clientele on a nondiscriminatory basis. For more information: http://go.osu.edu/cfaesdiversity.

Northeast Ohio Agriculture

Ohio State University Extension
Ashtabula, Portage and Trumbull Counties
Industrial Hemp: What You Need To Know

JANUARY 15, 2020  11:30A.M.

The Trumbull County Farmer Lunch Series returns for 2020! We’re kicking off the series with a presentation on the newly legal industrial hemp and will discuss agronomic, legal, and markets. If you are thinking about growing this crop in 2020, don’t miss this opportunity to learn more. To register call our office at 330-638-6783.

This series of education events is brought to you by OSU Extension Trumbull County, Trumbull County SWCD, and the USDA NRCS. To register call OSU Extension at 330-638-6783.

Location: Trumbull County Ag and Family Education Center, 520 West Main St, Cortland, OH 44410

Cost: $5/person (Includes Lunch)

Contact information: 330-638-6783 or beers.66@osu.edu

trumbull.osu.edu
Dairy Benchmarking and Economic Update

JANUARY 22, 2020  11:00A.M.

Join OSU Extension Trumbull County to learn more about benchmarking and the economic outlook for 2020 from Dianne Shoemaker. We will be discussing budgets, and how to calculate numbers so you can make honest comparisons with similar sized farms to find cost savings. This is a FREE event, but we will be having lunch so please call 330-638-6783 to register.

If you have any questions call OSU Extension at 330-638-6783.

Location: Trumbull County Ag and Family Education Center, 520 West Main St, Cortland, OH 44410
Cost: Free – Lunch Included
Contact information: 330-638-6783 or beers.66@osu.edu
ADULTING 101: Lessons & Lifeskills

Each one-hour session will introduce young adults, ages 15-19, to important lifeskills not typically covered in the classroom. Open to ALL youth. Limited to 15 participants per session. Pre-registration required. NO COST!

Saturday, February 8, 2020 10:00 a.m.: Putting Experiences into Skills
at OSU Extension 39 Wall Street Jefferson, OH 44047
“Tell Your Story” in a clear application and functional resume as a step toward employment and education. Learn from local business owners what they are looking for in high quality employees.

Saturday, February 22, 2020 10:00 a.m.: Impactful Thank Yous
at OSU Extension 39 Wall Street Jefferson, OH 44047
Hand-written thank yous are a lost art! Learn the importance, science and structure behind writing a strong thank you letter to buyers, sponsors and friends.

Saturday, April 4, 2020 10:00 a.m.: Walk the Walk
at Jefferson United Methodist Church 125 E. Jefferson Street, Jefferson, OH 44047
First impressions, grooming, dress, attitude, enthusiasm and presentation are all part of the overall interview process. Connect “looking the part” and “getting the part” and representing your best self.

For more information call 440-576-9008.
To register return this form to 39 Wall Street Jefferson, Ohio 44047 or email howard.577@osu.edu

REGISTRATION INFORMATION I understand and acknowledge that there are certain hazards and risks associated with my child’s participation in 4-H educational activities. I understand and accept such risks, and thus waive all claims, demands and causes of action against the State of Ohio, The Ohio State University, the County and their respective trustees, members, officers, employees, agents and volunteers acting on their behalf. I understand that I am solely responsible for any costs arising out of any injury or property damage sustained through my/my child’s participation in 4-H educational programs. I give permission for me/my child to attend 4-H Adulting 101 and participate in all programs and activities.

Name: ___________________________________________ Signature: ___________________________________________

Email: ___________________________________________ Cell Phone: __________________________

Please register me for the following session(s):
[ ] February 8 Putting Experiences into Skills [ ] February 22 Impactful Thank Yous
[ ] April 4 Walk the Walk

Emergency Contact: ______________________________________ Phone: __________________________

THE OHIO STATE UNIVERSITY COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

ashtabula.osu.edu
Good Agricultural Practices (GAP) Training

Wednesday, February 19, 2020 from 1:00 – 4:00 pm

Produce Safety Educational Course: Covers good agricultural practices or ‘GAPs’, which help reduce the risk of on-farm produce contamination. Attendees will receive a certificate of participation. Attending the OSU GAPs class does not equate to being GAPs certified.

Topics include:
- Worker Training, Health & Hygiene
- Manure and Compost Handling
- Domestic and Wild Animals
- Recordkeeping

Location: Geauga County Extension Office, 14269 Claridon Troy Road, Burton, OH

Cost: $30 per person

Contact information: OSU Extension 440-834-4656

REGISTRATION REQUIRED: Please RSVP by February 12, 2020 if you plan to attend. Registration Fee is $30 per person. Make checks payable to OSU Extension. Mail this registration form and payment to the Geauga County OSU Extension Office, P.O. Box 387, Burton, OH 44021.

How many attending _______

Name (s)________________________________________

Phone_________________________________ Email________________________________________
Questions for Speakers

Due to the complex and important topics to be discussed at the meetings, we are asking participants to pre-submit questions. There will be time for questions at the meetings, too. Pre-submitting questions will make sure that the speakers cover the information on the questions you have.

(Be specific and give details in your questions.)

1. ____________________________
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You can submit more details or questions on separate paper if needed.

Meet the Speakers

**Dr. Abby van den Berg**, is a Research Associate Professor and Assistant Director at the University of Vermont Proctor Maple Research Center. Current research includes the long-term effects of tapping on tree growth and health and developing guidelines for tapping practices that optimize yields and sustainability, the effects of processing technologies on syrup composition and flavor, and developing tapping guidelines and best practices for birch sap collection and syrup production. She has been with the Proctor Center since 2001, and earned her Ph.D. in Plant Biology from UVM in 2007.

**Mr. Steve Childs**, is a Maple Specialist for Cornell University. His Maple programming focused research and Extension efforts in the areas of maple value added products, grading, management of the forest tent caterpillar, tap hole sanitation and maple tubing systems. Steve has had a long background in maple as a producer in Allegheny County New York and now as a maple specialist for Cornell.

**Mr. Dan Milo**, is a Food Safety Supervisor with the Ohio Department of Agriculture Division of Food Safety and a hobby maple producer in Northeast Ohio. Dan has been working for the benefit of Ohio maple producers at ODA for many years.

**Dr. Gary Graham**, State Maple Syrup Specialist for Ohio State University Extension and County Educator in Agriculture and Natural Resources in Holmes County.

CFAES provides research and related educational programs to clientele on a nondiscriminatory basis. For more information, visit cfaesdiversity.osu.edu. For an accessible format of this publication, visit cfaes.osu.edu/accessibility.
To: All Interested Maple Producers & Enthusiasts

It’s time once again to make plans and you are cordially invited to participate in the Winter 2020 Ohio Maple Days Workshops in Morrow County Thursday January 23, or Holmes County Friday January 24, or Geauga County Saturday January 25. As is our custom, the same program will be offered at all three locations.

Pre-registration is required to ensure enough materials are made for the meetings

Topics To Be Covered:

- **FSMA Update:** The Food and Drug Administration (FDA) is implementing more portions of the Food Safety Modernization Act (FSMA) law. Producers will hear the latest sections of FSMA to be implemented in 2020 and the latest on registration requirements.

- **Research on Reverse Osmosis (RO) and Syrup Flavor and Quality:** A summary of research conducted by Proctor Maple Research Center on the effects of standard and high brix sap on the composition, properties, and flavor of the syrup produced.

- **Keys to High Yield Maple Production:** A summary of recent and ongoing research conducted by Proctor Maple Research Center to assess the sustainability and yields of various current tapping and sap collection practices and investigate the potential impacts of tapping on tree growth and health.

- **Cornell Research Update:** A summary of recent work on tubing cleaning, tap hole sanitation, 3/16” tubing, re-tap experiments, filtering sap, syrup flavors and sap oxygen levels, maple regeneration and deer management.

- **Maple Value Added Project:** A summary of improved efficiency in making maple sugar shapes (candy), making smooth maple cream, projects with maple cotton candy, maple soft drinks, and making sure syrup is right for the products you are making.

FREE Testing of Hydrometers & Refractometers:

Hydrometers & refractometers are vital in every sugaring operation, so be sure they remain accurate. The papers can shift and read off, which could result in improper finishing density. Too low of density and syrup could mold or ferment. If finished with too high of density, the syrup will crystallize. Bring your hydrometers with you to the meetings for testing; that way you will know going into the 2020 season that your instrument is reading properly.

Sincerely, Dr. Gary W. Graham, Ohio State University Extension Specialist, Natural Resources

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**DETAILS:**

8:00 Registration Table and Trade Show
8:30 Welcome, Introductions, OSU Extension & OMPA Reports
9:00 FSMA Update Mr. Dan Milo
9:30 RO Impact On Maple Flavor Dr. Abby van den Burg
10:45 Tubing Research Update Mr. Steve Childs
12:00 Lunch & Trade Show
1:00 Keys to High Yield Dr. Abby van den Burg
2:00 Maple Value Added Project Mr. Steve Childs
3:00 Maple Nuggets Dr. Gary Graham
3:30 Speaker Panel Abby, Steve, Dan, Gary
4:00 Trade Show Closes

**DATES/LOCATIONS:**

**Thursday, January 23 - Morrow County**
Lutheran Memorial Camp
2790 State Route 61
Fulton, Ohio 43321

**Friday, January 24 - Wayne/Holmes County**
Mennonite Christian Assembly Church
10664 Fryburg Road
Fredericksburg, Ohio 44627

**Saturday, January 25 - Geauga County**
Huntsburg Community Center
12396 Madison Road
Middlefield, Ohio 44062

These workshops will happen on the scheduled dates/times NO matter the weather conditions. Plan accordingly for your safe travels.

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**Registration Form**

Please return before January 17th

*Please checkmark the meeting attending*

- **Morrow County Meeting**
  - Thursday, January 23, 2020 - 8:00 AM - 4:00 PM
  - Lutheran Memorial Camp
  - 2790 State Route 61, Fulton, Ohio 43321

- **Wayne/Holmes County Meeting**
  - Friday, January 24, 2020 - 8:00 AM - 4:00 PM
  - Mennonite Christian Assembly Church
  - 10664 Fryburg Road, Fredericksburg Ohio 44627

- **Geauga County Meeting**
  - Saturday, January 25, 2020 - 8:00 AM - 4:00 PM
  - Huntsburg Community Center
  - 12396 Madison Road
  - Middlefield, Ohio 44062

Pre-registration is required

(Please list all who are attending)

Name(s): 1. ____________________________
2. ____________________________
3. ____________________________
4. ____________________________

Address ____________________________
City________________________ Zip __________
Telephone ____________________________

Number Attending: _______ X $40 = $ ______

Pay at the door fee $45

Please make checks payable to: OSU Extension

Registration Payment Deadline is January 17th

MAIL REGISTRATION TO:

OSU Extension Holmes Co.
75 East Clinton Street, Suite 109
Millersburg, OH 44654

- NO REFUNDS AFTER JANUARY 11th -

Contact: Ashley Gerber—330-674-3015
No matter the size of your woodlot, your trees have value that increase with time, proper management, and optimal health.

Join us as we explore tools and resources to sustainably and profitably manage woodlands on your property. Learn about federal programs that can help you achieve your timber and wildlife goals for the new year!

This workshop is being offered in Trumbull County on 1/23/2020 and Portage County on 2/20/2020. All are welcome to attend either workshop location regardless of residence.

This workshop is FREE, but registration is requested in order to prepare materials. If you need special accommodation for this meeting, please contact Kara MacDowell at 330-282-8622.

USDA is an equal opportunity provider, employer, and lender.
Increase Your Wealth and Woodland Health Workshop

No matter the size of your woodlot, your trees have value that increase with time, proper management and optimal health.

Join us as we explore tools and resources to sustainably and profitably manage woodlands on your property. Learn about federal programs that can help you achieve your timber and wildlife goals for the new year!

This workshop is being offered in Lake, Geauga and Ashtabula counties on different dates. All are welcome to attend any of the three regardless of residence, and each workshop will cover the same content.

This workshop is FREE, but registration is required by the Monday prior to the workshop. To register visit the Eventbrite link or call the number of your preferred location.

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**Geauga**
January 15, 6:00 - 7:30 PM
The Patterson Center
Geauga County Fairgrounds
14269 Claridon-Troy Road, Burton, OH
440-834-1122
woodlandwednesdaysgeauga.eventbrite.com

**Lake**
January 22, 6:00 - 7:30 PM
Working Woods Classroom
The Holden Arboretum
9550 Sperry Road, Kirtland, OH
440-350-2730
woodlandwednesdayslake.eventbrite.com

**Ashtabula**
January 29, 6:00 - 7:30 PM
Ashtabula SWCD Office
39 Wall Street, Jefferson, OH
440-576-4946
woodlandwednesdayashtabula.eventbrite.com

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