

**CFAES**

OHIO STATE UNIVERSITY EXTENSION

Jefferson County

# *Cooperative* **CONNECTION**

Covering county news and events for Extension programs, including  
Agriculture & Natural Resources and 4-H Youth Development

MAY - JUNE | 2021

**Be on the  
Lookout for  
Hemlock Woolly  
Adelgid**

**Summer  
is the  
Season  
for Camp!**

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## Letter from the Editors

Dear Readers,

Summer is upon us, which means that summer camp season begins! We hope that you are enjoying the great outdoors as much as we are!

The arrival of summer signals the emergence of spotted lanternfly (SLF) nymphs - be on the look out for SLF feeding on vegetation. SLF nymphs are not the picky eaters the adults are and will feed on a variety of plants, including fruit crops. When traveling in and out of the county, make sure to check your vehicles for any hitchhikers to help limit the spread of this invasive insect.

Special thanks to Urban Mission, Jefferson County 4-Her's and the Jefferson & Harrison Master Gardener Volunteers for sorting and distributing seeds this spring as part of the Ohio Victory Garden project organized by OSU Extension and the Ohio Department of Agriculture - Over 6,000 packets of seeds were given away at food banks, schools, nursing homes, public libraries and Extension offices across both Jefferson and Harrison Counties! For more information on the Ohio Victory Garden project and how to get started gardening, visit <https://u.osu.edu/ohiovictorygardens>.

Starting June 1st, we will return to pre-COVID office hours. Feel free to stop by anytime Mondays through Fridays 8 AM - 4:30 PM! Masks and social distancing are still required for the time being.

If you have any questions regarding our hours, events, projects, etc., give us a call at 740-264-2212. For a calendar of public events, see page 6. For county Extension updates, stay tuned at [jefferson.osu.edu](https://jefferson.osu.edu) or follow us on Facebook (@JeffCoExtension).

Sincerely,

ANGIE ALLISON  
4-H Youth Development

ERIKA LYON  
Agriculture & Natural Resources

Photo by Richard Gardner, Bugwood.org



**Spotted lanternfly nymphs are out and about...Help us spot spotted lanternfly! Contact the Ohio Department of Agriculture at 614-728-6201 or use the Great Lakes Early Detection Network App to report sightings of this insect!**





# EXTENSION'S MOST WANTED

## HEMLOCK WOOLLY ADELGID - A 2021 UPDATE

By Thomas DeHaas, OSU Extension, Lake County (with contributions by Tom Macy - ODNR, and David Apsley - OSU)

Since November of 2020, there have been a number of new infestations of hemlock woolly adelgid (HWA) discovered in Ohio. These discoveries have been made in Mahoning, Summit, Jefferson, and Columbiana counties. This brings the total amount of known HWA-infested counties in Ohio to 16. The question for the homeowner and/or landscaper is: What should I do? The short answer is: Report it!

Download the Great Lakes Early Detection Network app to your smart phone. The following video talks about Spotted Lanternfly but the same app can be used to report hemlock woolly adelgid. Download the app, go to Species Categories, snap a picture with your smart phone and send it to GLEDN. Note when you search for the App in Google or Apple, type the the words "Great Lakes EDN".

Using the Great Lakes Early Detection Network (GLEDN) app for Spotted Lanternfly

<https://www.youtube.com/watch?v=PT9lik8X-Fs>

Native to Asia, HWA is an invasive, aphid-like insect that attacks eastern and Carolina hemlocks.

HWA are very small (1.5 mm) and often hard to see, but they can be easily identified by the white woolly masses they form on the underside of branches at the base of the needles. This is most easily spotted from November through May.

Juvenile HWA, known as crawlers, search for suitable sites on the host tree, usually at the base of the needles. They can be transported over long distances by birds. They insert their straw-like mouthparts and begin feeding on the tree's stored starches. HWA remain in the same spot for the rest of their lives, continually feeding and developing into adults. Their feeding severely damages the canopy of the host tree by disrupting the flow of nutrients to its twigs and needles. Tree health declines and mortality usually occurs within 4 to 10 or more years.

Signs of infestation: white woolly masses (ovisacs) about an eighth of an inch in diameter on the underside of branches at the base of needles, needle loss and branch dieback, and gray-tinted needles.

Hemlock woolly adelgid (*Adelges tsugae*) was accidentally introduced from Japan in the eastern United States in the early 1950s. It was first found infesting native eastern hemlock (a.k.a. Canadian hemlock; *Tsuga canadensis*) forests in Ohio in 2012.

Sixteen counties in Ohio are known to have infestations of HWA. The Ohio Department of Natural Resources (ODNR) Division of Forestry led an effort along with other ODNR divisions to finalize the Eastern Hemlock Conservation Plan in 2017. Active management of HWA is occurring in several areas in Ohio, such as the Hocking Hills (including Hocking Hills State Park and Hocking State Forest), Lake Katharine State Nature Preserve in Jackson County, and in natural areas owned by the Holden Arboretum in Lake and Geauga counties.

Some chemical insecticides are highly effective at controlling HWA. Chemical controls are the only effective rapid response measure to keep hemlocks healthy and prevent decline and mortality from HWA. In forest ecosystems, chemical controls offer a stop-gap measure to keep hemlocks on the landscape until a more sustainable option, such as biological controls, or HWA-tolerant or resistant hemlocks, can be established. Two systemic insecticides labeled for control of HWA are imidacloprid (which can be applied as a liquid soil drench, basal bark spray, soil tablets, or direct stem injection) and dinotefuran (typically applied as a basal bark spray). Imidacloprid is the most commonly used systemic insecticide for HWA control, as it is relatively inexpensive and provides up to seven years of residual control with just one application. Dinotefuran is relatively expensive and provides about 2 years of residual control but is faster acting than imidacloprid. The chemical applications are effective, and trees respond with healthy growth the following year after treatment. Before applying any pesticide be sure to read and follow the label, or consider hiring a professional arborist.

For landowners with hemlock trees on their property, it is not recommended to treat your trees with insecticides until after you have confirmed that they are infested with HWA. It is recommended to monitor your hemlock trees for the presence of HWA woolly masses annually in the winter, and work with OSU Extension, ODNR, or Ohio Department of Agriculture to confirm a possible HWA infestation. HWA is a slow killer of hemlock trees, and if infestations are caught early, control is easily attainable in a landscape setting.



Imidacloprid Treatment

Laricobius nigrinus beetle



## FUNGICIDES FOR WINE GRAPES

By Melanie Lewis Ivey, Assistant Professor, Extension Fruit Pathologist, Department of Plant Pathology, OSU Extension

Several fungicide products and a couple of biocontrol products have recently been registered for grapes. While these products are listed in the 2021-2022 Midwest Fruit Pest Management Guide, I thought I would provide a short overview of each.

**Cevya** (mefentrifluconazole) is a FRAC 3 fungicide manufactured by BASF. Cevya is registered for Phomopsis cane and leaf spot, powdery mildew and black rot. It provides good control of powdery mildew and Phomopsis, and good to excellent control against black rot. The current label restricts the use of Cevya on *Vitis lubrusca* and *V. lubrusca* hybrid grape varieties. Cevya should be used in a rotation program with non-FRAC 3 fungicides as FRAC 3 fungicides are high-risk for resistance development. For powdery mildew management, Cevya should be mixed with a low-risk fungicide such as mancozeb or Captan.

**Gatten** (flutanol) is a FRAC U13 fungicide manufactured by Nichino. It is registered for powdery mildew only and provide good to excellent control. Gatten has a unique mode of action and can be used in rotation with other fungicides such as (but not limited to) Cevya (FRAC 3), Flint Extra (FRAC 11) or Endura (FRAC 7). Gatten should not be used more than twice in the season and should not be used twice in a row.

**Howler** (*Pseudomonas chlororaphis* strain AFS009) is a biocontrol product from AgBiome Innovations. Howler is not listed in the Midwest Fruit Pest Management Guide. Howler is OMRI listed and can be applied as a foliar spray or soil drench, however, it can not be mixed with other insecticides, fungicides, surfactants, adjuvants, or fertilizers. The label lists multiple target pathogens, but *Botrytis* is the only pathogen listed that affects grape. There is a new 2(ee) label that permits the use of Howler for downy mildew and powdery mildew. However, there are no published data available on downy or powdery mildew efficacy and thus I don't recommend it be used during the 2021 season, especially if disease pressure is high.

**Intuity** (mandestrobin) is a FRAC 11 fungicide manufactured by Valent. It is labelled for *Botrytis* bunch rot and powdery mildew, although it only has suppression against powdery mildew. The label restricts the use of Intuity on *Vitis lubrusca* and *V. lubrusca* hybrids, and non-vinifera hybrid grape varieties. Intuity should be used in a rotation program with non-FRAC 11 fungicides as FRAC 11 fungicides are high-risk for resistance development. Intuity should only be use only once or twice and consecutive applications should never be made.

**Stargus** (*Bacillus amyloliquefaciens* strain F727) is a biocontrol product from Marrone Bio Innovations. Stargus is not listed in the Midwest Fruit Pest Management Guide. It is OMRI listed and labeled for multiple fungal diseases including *Botrytis* bunch rot, black rot, downy mildew, *Phomopsis* fruit rot, and powdery mildew. The efficacy against *Botrytis* bunch rot was tested in California and found to be good. I would not recommend that Stargus be used against *Botrytis* or downy mildew when disease pressure is high (rainy, cool to warm weather).

Use the Decision Tree on the following page to help you select a fungicide.

## PESTICIDE EXAM INFORMATION

Due to the COVID-19 pandemic, we ask that every person taking the exam do a self-check before entering ODA's campus or a regional exam location. Please take your temperature at home to ensure you do not have a fever. If you are feeling sick, please reschedule your exam.

ODA has started offering regional exams in several counties at the Ohio State Extension Offices. Visit the registration link below to view scheduling and locations available.

Exams are scheduled for the following dates in Jefferson and Harrison Counties:

### June 10 9AM-1PM

Harrison County Fairgrounds Commercial Building, 550 Grant Street, Cadiz, OH

### July 20 9AM-1PM

Harrison County Fairgrounds Commercial Building, 550 Grant Street, Cadiz, OH

### August 30 9AM-1PM

Ohio Valley Towers Building/OSU Extension, 2nd Floor Conference Room, 500 Market Street, Steubenville, OH

### September 20th 9AM-1PM

Ohio Valley Towers Building/OSU Extension, 2nd Floor Conference Room, 500 Market Street, Steubenville, OH

Photo IDs will be required.

Pencils and calculators will be provided.

No more than 9 people will be allowed per session, plus a proctor, until further notice.

Per OAC 901:5-11-08(A)(7), applicants must wait five (5) business days between testing sessions.

Multiple exams may be taken during a session, however, due to limited space, you may only register for one session per week.

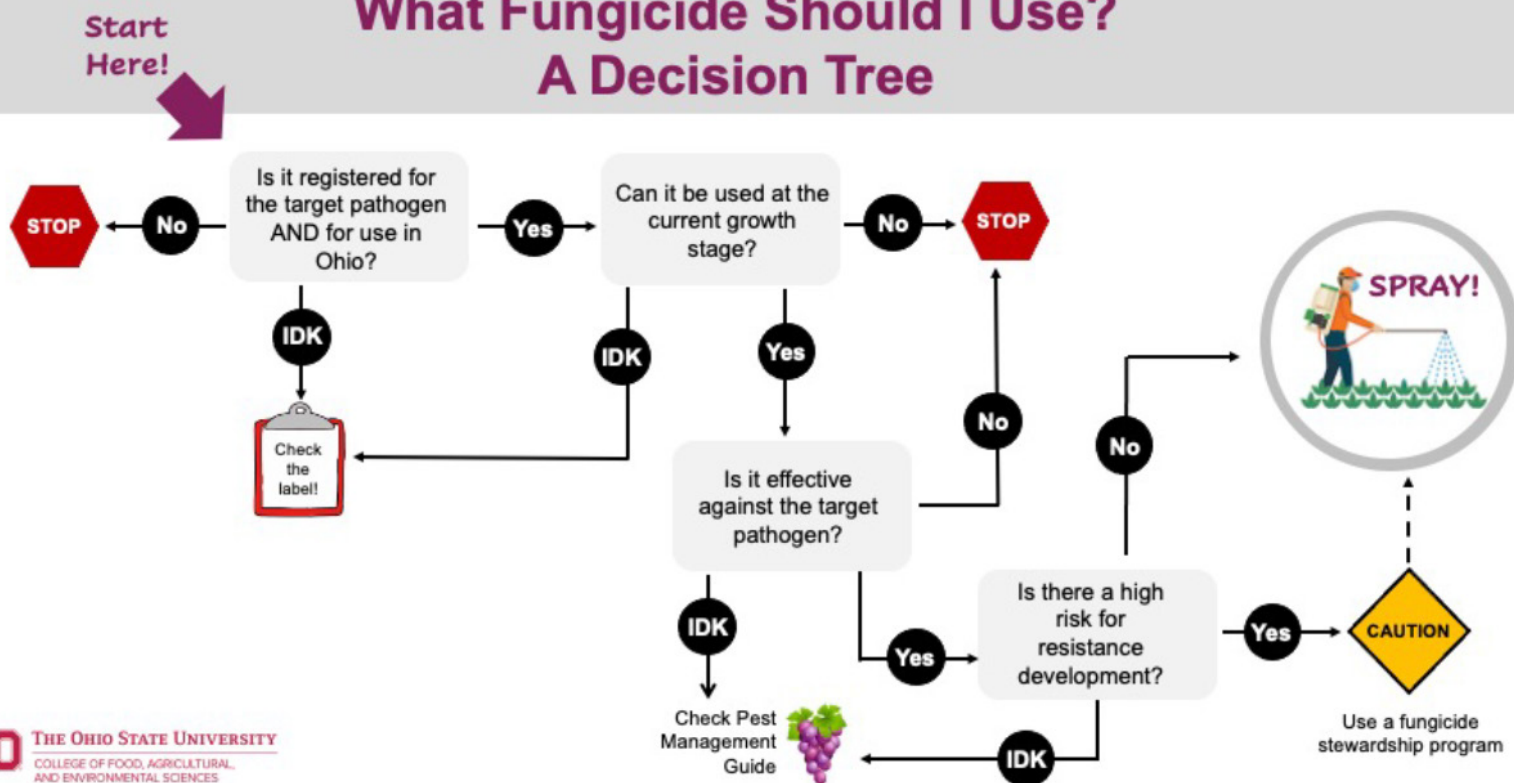
Register for exams at [pested.osu.edu/PrivateApplicator/testing](https://pested.osu.edu/PrivateApplicator/testing)

**See page 12 for future study sessions**

Jefferson County Extension



# What Fungicide Should I Use? A Decision Tree



## PASTURE (FROTHY) BLOAT; BEWARE WHEN GRAZING LEGUMES!

By Stephen Boyles, OSU Extension Beef Specialist

Bloat has been described in agricultural writings since A.D. 60. Names for bloat have changed over the years: hoove, hoven, tympany, and blown have appeared in English journals of the 18th and 19th centuries.

Bloat occurs when rumen gas production exceeds the rate of gas elimination. The gas accumulates and causes distention of the rumen (left side of cattle). If the situation continues, the inflated rumen interferes with respiration. The problem is worsened by the absorption of carbon dioxide (CO<sub>2</sub>) from the rumen. Death is normally due to suffocation.

Bloat is often associated with discontinuous grazing, such as the removal of animals from legumes pastures overnight. Pasture bloat may occur when grazing is interrupted by adverse weather, such as storms or biting flies. Anything that alters normal grazing habits will increase the incidence of bloat. The following are a list of forages and their bloat potential:

Forage species and their potential for causing bloat in cattle:

<b>High Potential</b>	<b>Low Potential</b>	<b>Considered Safe</b>
Alfalfa	Arrowleaf clover	Birdsfoot trefoil
Sweetclover	Spring wheat	Cicer milkvetch
Red clover	Oats	Crownvetch
White clover	Rape	Lespedeza
Alsike clover	Perennial ryegrass	Fall rye
Winter wheat		Most grasses

Alfalfa can cause bloat in the spring, summer, and fall. Fall bloat conditions are caused by frequent heavy dew or fall frost. After a killing frost (not to be confused with first frost), alfalfa has a reputation of being bloat-safe. However, as long as the plant remains green, there is potential for bloat. Nitrogen fertilizer and frequent, heavy grazing will reduce the amount of alfalfa in a stand.

Bloat is often classified as being either pasture or feedlot bloat. It is more accurate to identify it as being either free-gas bloat or frothy bloat. Frothy bloat normally occurs in cattle eating legumes or lush grasses as well as in feedlot cattle. Free-gas bloat is less common on pasture or in the feedlot.

In situations of frothy bloat, gas production may not be greatly increased but the gases, mainly CO<sub>2</sub> and methane (CH<sub>4</sub>), are trapped in foam or froth. The foam or froth interferes with the expulsion of gases resulting from normal fermentation in the rumen.



## PASTURE (FROTHY) BLOAT continued...

### Preventing Bloat on Pasture

- Manage pasture for no more than 50% legumes. (This has little value if selective grazing is possible)
- Fill cattle on dry roughage or grass pasture before turning out on a legume pasture.
- Do not initially turn cattle on pasture wet with dew or rain.
- Once cattle are turned to pasture, don't remove at the first signs of bloat. Watch them closely and remove only those whose condition continues to worsen if it is a small percentage of the total number.
- If green chop is being fed, spread the intake over several feedings while the cattle are getting adapted.
- Livestock Diet Supplements: Feed anti-foaming chemicals like poloxalene, which can prevent pasture bloat for about 12 hours if consumed in adequate amounts. Begin feeding two to five days before turning onto pasture. Poloxalene can be fed as a topdressing, in a grain mix, in liquid supplements, or in molasses blocks. The blocks work best when scattered around the entire field at a density of about one block for every 10 head of cattle. The blocks are not as effective if they are placed only near the water supply. The blocks are more effective in small fields than in large ones. Because poloxalene is relatively expensive, some producers reduce the dosage or eliminate its use after livestock have been grazing pasture for several weeks. Provide supplements or molasses blocks containing bloat-reducing compounds such as an ionophore (example: Rumensin®).

A few recommendations from the past seem unusual today, for example, "feather burnt, and held for some time while in full smoke, close under the nose of the animal"(1795); and "a pint of gin to each animal"(1925). Some of the early suggestions still have merit. For example, placing an animal's front feet on a mound so that the front feet are higher than the back feet helped to ease bloat because the esophagus was thus elevated and the gas was expelled more easily. Walking was a commonly used treatment for bloat and was effective if used before bloat reached the acute stage. Another method involves placing a stick or rope through an animal's mouth to encourage salivation, which breaks down rumen foam.

*Treatment:* Free-gas bloat can usually be relieved by inserting a 3/4" rubber hose into the rumen via the esophagus. If "hosing" does not give immediate relief, a defoaming agent (poloxalene) should be administered through the hose to break the surface tension of the ingesta. A pint of mineral oil is also a defoamer. Drenching should be avoided because of the danger of inhalation by the bloated animal which can cause immediate death or lead to pneumonia. Similarly, a hose placed in the rumen will have a gurgling sound and the smell of ammonia, whereas a hose that has passed into the lungs will have the sounds of breathing. Use of a speculum (a steel tube) placed in the mouth will help in passing the hose and prevent the animal from chewing the hose. A trocar should be used as a last resort and veterinarian should be contacted if this is or going to be done. Chronic bloaters should be shipped for slaughter.

## FARM | Field Application Resource Monitor BETA

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 aid in the application of fertilizer, manure, and/or 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 (text alerts coming soon).

This project is made possible through a Connect and Collaborate Grant, a program supporting innovative and scholarly engagement programs that leverage academic excellence of The Ohio State University in mutually beneficial ways with external partners. Learn more at <https://farm.bpcrc.osu.edu>

## SEASON CALENDAR

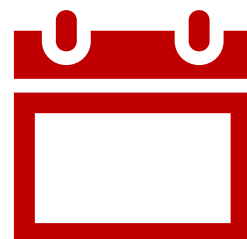
### MAY

- 5/4 East Ohio Women in Agriculture Field Day, Mechanicstown, OH 5:30PM
- 5/6 Master Gardeners Lunch & Learn 12PM
- 5/11 Beef Quality Assurance Recertification - Contact Erika Lyon at 740-461-6136 for more information
- 5/12 Master Gardeners Happy Hour 4 PM
- 5/13 East Ohio Women in Agriculture Webinar 12PM
- 5/14 A Day in the Woods 10AM
- 5/17 Webinar: Hemlock Woolly Adelgid 12PM
- 5/20 Master Gardeners Lunch & Learn 12PM  
Pesticide & Fertilizer Exam Study Session 7PM
- 5/26 Master Gardeners Happy Hour 4 PM
- 5/27 East Ohio Women in Agriculture Webinar 12PM
- 5/28 Friday Farm Coffee Break

### JUNE

- 6/8 Pesticide & Fertilizer Exam Study Session 7PM
- 6/9 Overholt Drainage Workshop 9AM
- 6/25 Friday Farm Coffee Break
- \*Subject to change

Visit [jefferson.osu.edu](https://jefferson.osu.edu)  
or join the Agriculture &  
Natural Resources Group  
on our Facebook page @  
JeffCoExtension for updates  
and future webinars, podcasts  
and other great opportunities!





## HOW WILL YOUR FARM EMERGE FROM THE CORONAVIRUS PANDEMIC?

By Chris Zoller, Extension Educator, ANR, Tuscarawas County, David Marrison, Extension Educator, ANR, Coshocton County and Mike Estadt, Extension Educator, ANR, Pickaway County

It has been more than a year since Coronavirus was declared a pandemic. Everyone has been touched by the pandemic either directly or indirectly. As an industry, agriculture has experienced market disruptions and slowdowns in the processing sector due to the pandemic. In response, the United States government provided billions of dollars in economic relief in 2020 to assist farmers affected by the disruptions. This assistance has continued into 2021 as just recently the United States Department of Agriculture (USDA) announced details about the "Pandemic Assistance for Producers" Initiative.<sup>1</sup> This article takes a look at federal farm support, forecasts for net farm income in 2021, and challenges farm managers to examine how their business will emerge from the coronavirus pandemic.

The following figure from the University of Illinois<sup>2</sup> (Figure 3) shares the government farm support programs for the past fifteen years with a forecast for 2021. Farm program payments have been cyclical and have ranged from a low of approximately \$10 billion in 2014 to a high of nearly \$45 billion in 2020. The forecast for government payments in 2021 is around \$25 billion.

The USDA's Economic Research Service (ERS) 2021 Farm Income Forecast<sup>3</sup> projects U.S. net farm income (NFI) to decrease \$9.8 billion (8.1%) to \$111.4 billion in 2021. When indexed for inflation, net farm income is anticipated to decrease by \$12 billion or 9.7%. Net farm income is a broad measure of farm sector profitability that incorporates noncash items, including changes in inventories, economic depreciation, and gross credited rental income. Despite the decline, NFI in 2021 is still expected to be 21 percent higher than the twenty-year average. ERS predicts U.S. net cash farm income to decrease \$10.4 billion (7.5 percent) to \$128.3 billion in 2021. Net cash farm income is defined as cash receipts minus cash expenses and does not include changes in inventories or depreciation.

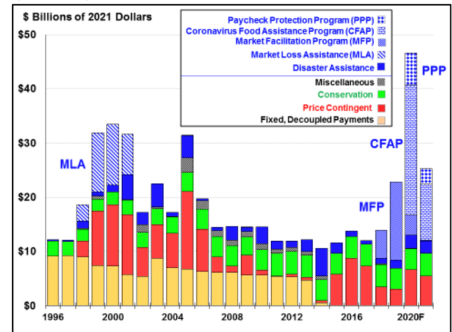
Underlying these forecasts, cash receipts for farm commodities are projected to rise \$20.4 billion (5.5%) in 2021. Total animal receipts are expected to increase by \$8.6 billion (5.2%) and total crop receipts are forecasted to increase by \$11.8 billion (5.8%). Direct government payments to farmers are expected to be 45.3% lower – a \$21 billion decrease from 2020. This decline is largely caused by lower anticipated payments from supplemental and ad hoc disaster assistance for COVID-19 relief. Total production expenses are forecasted to increase \$8.6 billion (2.5%).

As the pandemic subsides, it is almost certain that U.S. government farm support payments in 2021 and future years will be significantly lower. The financial bottom line for many farm operations was positive in 2020 due to historically high ad-hoc payments. Looking forward to 2021 there is much optimism in the crop sector due to the recent surge in crop prices and lower stock reports. However, much can happen between now and next fall's harvest. It is anticipated that livestock and dairy producers will feel the effects of high grain prices when purchasing feed.

As we analyze the crazy pandemic year of 2020 and its lingering impacts into this new year, we have been asked how successful farm businesses should plan as the pandemic subsidies and life returns to "more normal."

Do not rely on government farm programs as income sources as you develop enterprise budgets specific to your operation. Check out OSU budgets at: <https://farmoffice.osu.edu/farm-mgt-tools/farm-budgets> Work toward being a low-cost producer by knowing your cost of production. Higher crop prices can be a temptation not to be detailed in tracking expenses. Make sure to track and monitor both variable and fixed expenses. Develop contingency plans and emergency preparedness plans for overcoming disruptions which impact your business. How will work get done if employees get sick or are in quarantine?

**Figure 3. U.S. Government Farm Support, 1996-2021 (forecast)**



**Source:** CRS using data from USDA, ERS, "2021 Farm Income Forecast," February 5, 2021. All values adjusted for inflation with the BEA chained GDP deflator, where 2021 = 100.

**Note:** For details on the program categories, see CRS Report R46676, U.S. Farm Income Outlook: December 2020 Forecast.

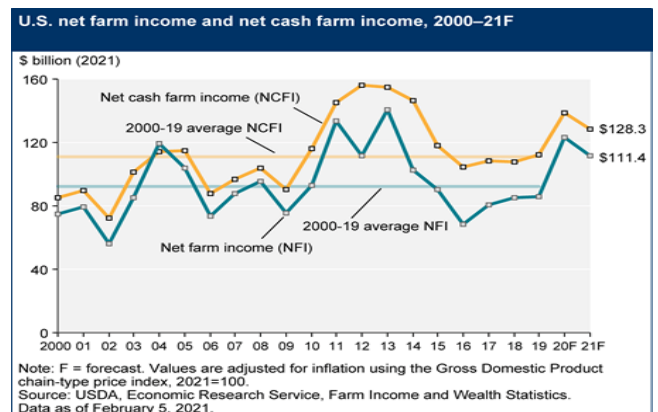
How will you overcome future slow-downs in the processing sector or if crops cannot be shipped to market? Enroll in the Ohio Farm Business Planning and Analysis Program to fully understand your farm operations financial strengths and weaknesses. Learn more here: <https://farmprofitability.osu.edu> Review leases and contracts annually. Hold family meetings – to discuss finances, review your mission statement, complete a SWOT analysis, and develop goals. See this OSU Extension Fact Sheet: <https://ohioline.osu.edu/factsheet/anr-43> Network with your peers. Share successes and challenges. Form and meet with a farm business advisory team that may include one or more of the following: Extension Educator, accountant, lender, nutritionist, crop advisor, insurance agent, and others important to your business. Utilize OSU Extension resources – Ohio Ag Manager (<https://u.osu.edu/ohioagmanager>), Farm Office (<https://farmoffice.osu.edu>), Crop Observation and Recommendation Network (<https://agcrops.osu.edu>), Beef Cattle Newsletter (<https://u.osu.edu/beefteam>), and Buckeye Dairy Newsletter (<https://dairy.osu.edu>).

The coronavirus pandemic has revealed that agriculture is a resilient industry. Crops were still planted and harvested; livestock continued to be cared for. Despite some infrastructure issues related to food processing, Americans were still able to access safe and affordable food. The pandemic has revealed how dependent the agricultural supply chain is on timely delivery of goods and services, healthy and available agricultural workers, and a confident consumer willing to adapt and adopt new buying practices.

As Americans begin to exit the last throes of the pandemic's lockdowns, return to work and school, and begin life anew, reflection on emergency preparedness should be re-evaluated and adjusted plans put in place. Each farm business should continue to put contingency plans in place for the next disruption. And, make sure you keep an adequate supply of toilet paper on hand, just in case!

### References

- <sup>1</sup>USDA Pandemic Assistance for Producers. Accessed from: <https://www.farmers.gov>
- <sup>2</sup>Good, Keith. USDA Announces "Pandemic Assistance for Producers", New CFAP Aid. March 25, 2021. <https://farmpolicynews.illinois.edu/2021/03/usda-announces-pandemic-assistance-for-producers-new-cfap-aid/>
- <sup>3</sup>2021 Farm Sector Income Forecast. Accessed from: <https://www.ers.usda.gov/topics/farm-economy/farm-sector-income-finances/farm-sector-income-forecast/>



**Note:** F = forecast. Values are adjusted for inflation using the Gross Domestic Product chain-type price index, 2021=100.  
**Source:** USDA, Economic Research Service, Farm Income and Wealth Statistics. Data as of February 5, 2021.

**Q: Will the Brood X periodical cicadas affect my fruit trees this year?**

**A:** The primary distribution of Brood X is in western Ohio. While back in the early 1900s there were reports of a population in Jefferson County, we will likely not be seeing the numbers of periodical cicadas that occurred during the 2016 and 2020 emergences.



Public Library of Steubenville & Jefferson County  
**Outdoor Garden Series**

**Growing Herbs in Ohio Gardens**

July 6 @ 11 AM

Main Branch

*Learn how to successfully grow herbs indoors and out. Participants in this session will receive a sample of herb seeds to take home and grow on their own.*

**Building Up Garden Soils**

July 8 @ 5:30 PM

Brilliant Branch

*Soils are the foundation to every garden. During this session, we will cover how to identify soil types in your garden and how to make garden soils more productive.*

**Getting the Most Out of Your Garden Tools**

July 13 at 11 AM

Toronto Branch

*This session will cover garden tool maintenance. Tips for extending the life of tools will be shared along with sanitation techniques for equipment such as pruners.*

**Insects of the Home & Garden**

July 15 at 5:30 PM

Dillonvale Branch

*Learn how to identify insects such as pollinators, garden pests and even home invaders such as termites and bed bugs. Participants will receive an assortment of insect identification cards.*



**FARM OFFICE** *Live*  
**Learn the latest in farm management**

*Farm Office Live* returns virtually this year as an opportunity for you to get the latest outlook and updates on ag law, farm management, ag economics, farm business analysis and other related issues from faculty and educators with the College of Food, Agriculture and Environmental Sciences at The Ohio State University.

We are busy monitoring the latest farm management and ag law issues affecting Ohio's agricultural community. We will schedule another Farm Office Live when we have information you need to know.

Who's on the Farm Office Team? Our team features OSU experts ready to help you manage your farm office:

Peggy Kirk Hall -- agricultural law, Dianne Shoemaker -- farm business analysis and dairy production, David Marrison -- farm management, Barry Ward -- farm management and tax

Recordings of past sessions are available at [go.osu.edu/farmofficelive](https://go.osu.edu/farmofficelive)

**More information at [go.osu.edu/farmofficelive](https://go.osu.edu/farmofficelive)**



Jefferson & Harrison  
**MASTER GARDENER**  
**VOLUNTEERS**  
*@ the Farmer's  
Gateway Market*

Come visit the Jefferson & Harrison Master Gardener Volunteers at the Farmer's Gateway Market this summer and ask a Master Gardener about all of your horticultural questions!

Schedule of booth dates will be available at [jefferson.osu.edu](http://jefferson.osu.edu) in the near future.



Find us on Facebook  
@JHCmgv

**MASTER GARDENER**  
**VOLUNTEERS**  
**HORTICULTURE**  
**LUNCH & LEARN**  
*and* **HAPPY HOUR**  
**WEBINARS**

**Continuing this May and open to the public! Full schedule and registration information available at [mastergardener.osu.edu/lnlhh](http://mastergardener.osu.edu/lnlhh)**

**Lunch & Learns**  
Thursdays 12-1 PM  
May 6: *Jumping Worms*  
May 20: *Combatting Mosquitoes in the Backyard*

**Happy Hours**  
Wednesdays 4-5 PM  
May 12: *Periodical Cicada Emergence in Ohio*  
May 26: *Insect Mouthparts and Recognizing Feeding Damage*

OHIO WOODLAND STEWARDS

**A DAY**  
*in the*  
**WOODS**

We are pleased to announce that A DAY in the WOODS will be offering programming on the 2nd Friday of each month

**May 14 @10AM – Forest Ecology**

This program will focus on southeast Ohio – our most heavily forested portion of the state located in the foothills of the Allegheny Mountains and part of the greater Appalachian Mountain Ecosystem. The workshop has two parts – the first will explore the role that our woodlands can have in enhancing our physical and mental health and the second will provide an introduction to the landscape ecology of southeast Ohio. We hope you can join us as we explore the ecological “zip codes” of southeast Ohio and how we all fit in.

Also, don't forget to visit [u.osu.edu/seohiowoods](http://u.osu.edu/seohiowoods) regularly to view our ever growing video library of including: Tree ID series, chainsaw safety and maintenance series, and 25+ videos from our 2020 DAY in the WOODS offerings.

Webinar:  
*Identification and Management of*

**Hemlock Woolly Adelgid**

Monday, May 17  
12-1 PM

**Register at [go.osu.edu/2021jeffcohwa](http://go.osu.edu/2021jeffcohwa)**

Hemlock Woolly Adelgid (HWA) is an invasive, aphid-like insect that attacks North American hemlocks. A population of HWA was identified in Smithfield, OH earlier in 2021, causing concern about the distribution of HWA within Jefferson County and the total number of hemlock trees that might be infested.

This webinar covers how Jefferson County residents can identify HWA and the protocols implemented to control this invasive insect in Ohio.



# Jefferson & Harrison **MASTER GARDENER VOLUNTEERS**



***NOW ACCEPTING  
APPLICATIONS***

**NEW THIS YEAR:** The 2021 Master Gardener Volunteer training will consist of both online modules, hands-on labs and tours, and either a writing or presentation project. Interns are expected to attend orientation and a minimum of 5 labs but can pick and choose either by topic or date that best fits into their schedule. Cost of the training is \$100 per person.

## **Training Topics**

basic botany  
soils, fertilizer and compost  
entomology  
plant pathology  
integrated pest management  
plant propagation and houseplants  
lawn care  
home herb, vegetable and fruit  
production  
backyard wildlife management  
pollinators

## **Orientation and lab schedule:**

Monday, July 12 <sup>th</sup>	5-8 PM	Master Gardener Volunteer Orientation & Teaching Skills Lab
Thursday, July 22 <sup>nd</sup>	5-8 PM	Garden Soils Lab
Tuesday, July 27 <sup>th</sup>	1-4 PM	Plant Diagnostics Lab
Thursday, August 5 <sup>th</sup>	5-8 PM	Propagation Methods Lab
Monday, August 9 <sup>th</sup>	1-4 PM	Fruit Production Lab
Wednesday, August 11 <sup>th</sup>	5-8 PM	Fruit Production Lab
Thursday, August 12 <sup>th</sup>	1-4 PM	Season Extension Lab
Monday, August 23 <sup>rd</sup>	1-4 PM	Arboretum Tour
Tuesday, August 31 <sup>st</sup>	5-8 PM	Pollinator Plot Tour
Thursday, September 2 <sup>nd</sup>	1-4 PM	Project Presentations

Master Gardener Volunteers in Ohio offer assistance with home horticultural questions, pest identification, school programs, demonstrations, research, and continuing education programs. Working with county Ohio State Extension personnel, Master Gardener Volunteers provide educational services to their communities. If you are a garden enthusiast, this is a great opportunity to share your gardening know-how and skills with others in your community.

**To learn more about the application process, visit [go.osu.edu/becomejeffharmgv](https://go.osu.edu/becomejeffharmgv). Send questions to Erika Lyon at [lyon.194@osu.edu](mailto:lyon.194@osu.edu) or call 740-461-6136.**







# Ohio Field and Farm

**Buckeye Beef Byte Podcast**  
 New episodes found at  
[go.osu.edu/beefbyte](http://go.osu.edu/beefbyte)



**Friday Farm Coffee Breaks @ 10am**  
 20 minute videos posted to  
[go.osu.edu/farmcoffeebreak](http://go.osu.edu/farmcoffeebreak)

Recordings now available on:  
 Testing Well Water Quality  
 Wildlife Management in Crop  
 Fields  
 CAFOs

Upcoming Videos:  
 May 28: Where to Get  
 Started with Farming  
 June 25: Forage ID

Questions? Contact Erika Lyon at  
[lyon.194@osu.edu](mailto:lyon.194@osu.edu) or 740-461-6136

Cooperative Connection



## East Ohio Women in Agriculture Upcoming Events & Webinars

Webinars run from 12-1 PM & Field Days begin at 5:30 PM

- May 13: *Webinar* Veterinarians: Building a Relationship & Knowing When to Call - A working relationship with your veterinarian can teach you when it's appropriate to try something at home vs. having them out on a call to improve your farm's husbandry & production.
- May 27: *Webinar* He Said, She Said - Women in agriculture often work with men in agriculture. Explore ways to improve interpersonal communication for more productive work settings and peaceful home environments.

Webinar registration and more information is available at  
[go.osu.edu/eowiaseries2021](http://go.osu.edu/eowiaseries2021)  
 (Webinars will be recorded for later viewing.)

Field Day registration and more information is available at  
[go.osu.edu/eowiafielddays2021](http://go.osu.edu/eowiafielddays2021)

## Pastures for Profit

The virtual Pastures for Profit course will consist of three 90-minute webinars offering a variety of pasture and grazing topics. Once registered, attendees will be granted access to the online course including the webinars and complementary resources. Participants that attend all three webinars will have the opportunity to earn a certificate of completion. Registered participants will also receive their choice of a curriculum binder or USB drive of the traditional course by mail.

Webinar 1 - Recording Now Available  
 Core Grazing Education: Evaluating Resources and Goal Setting, Getting Started Grazing, Soil Fertility

Webinar 2 - Recording Now Available  
 The Science of Grazing: Understanding Plant Growth, Fencing and Water Systems, Meeting Animal Requirements on Pasture

Webinar 3 - Recording Now Available  
 Meeting Grazing Goals: Pasture Weed Control, Economics of Grazing, Creating and Implementing Grazing Plans

To access the online materials only, register at  
<https://go.osu.edu/2021pasturesforprofit>.

## **Pesticide & Fertilizer Exam Study Sessions 7-9 PM on the dates listed below**

Study sessions will be held  
virtually until further notice.

Registration is required -  
call 740-461-6136 or email  
[lyon.194@osu.edu](mailto:lyon.194@osu.edu) to request the  
Zoom link.

**Thursday, May 20  
Tuesday, June 8**



For more information on  
obtaining a pesticide license,  
visit [pested.osu.edu](http://pested.osu.edu). For  
fertilizer certification, visit  
[nutrienteducation.osu.edu](http://nutrienteducation.osu.edu). You  
can also contact the Jefferson  
County Extension office with  
any questions.

Study materials can  
be found on these  
websites. Hard copies  
of study materials  
may be in stock at  
the Jefferson County  
Extension office -  
call ahead to check  
availability.

## **2021 Overholt Drainage Workshop**

June 9 9AM-Noon

Register at <https://go.osu.edu/drainageschool>

Join OSU Extension for a webinar focused on drainage design,  
installation, and management including updates on recently passed  
H.B. 340 – Ohio's "petition ditch laws" that address the installation  
and maintenance of drainage works of improvement in Ohio. A panel  
of professional engineers representing state and federal agencies,  
drainage contractors, and tile manufacturers will discuss some standard  
practices, common issues, and troubleshooting associated with  
drainage design, installation, and repairs.

### Topics:

How drainage design affects crop yield and economics?  
Drainage law – recent updates to Ohio Drainage Law  
Designing drainage & associated practices - standards and good  
practices for design  
Installing drainage & associated practices  
When drainage goes wrong: Drainage design & installation Panel

No cost to attend. Registration required. CEU credits available for CCAs  
and Professional Engineers

For additional information on Agronomy-related programs,  
visit [go.osu.edu/2021agcropsweb](http://go.osu.edu/2021agcropsweb)



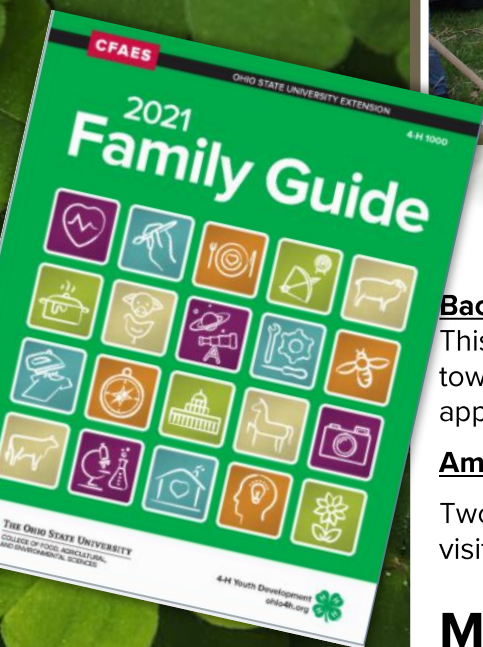


# Junior Fairboard Applications Due

Applications for the Jefferson County Junior Fairboard are due by May 12, 2021 to Bonnie Randolph. Visit the Jefferson County Fair Exhibitors And Campers page for the application and to post questions. Members are expected to work **at least** one show and one shift in the junior fair building to participate. For questions call, Bonnie at 740-275-6728.



PICK YOUR  
PROJECTS FOR  
2021!  
DOWNLOAD  
THE NEW  
FAMILY GUIDE:



4-HERS CELEBRATING EARTH DAY April 22 - The Dirt Diggers started to clean out and prepare their adopted flower bed at Friendship Park for an Earth Day activity.



## JEFFERSON COUNTY 4-H COMMITTEE SCHOLARSHIP

### Background and Purpose:

This scholarship is established in order to help young people continue their efforts toward becoming self-directed, productive and contributing members of society. All applications must be received by: **JUNE 11, 2021.**

### Amount:

Two (2) \$1,000.00 scholarship winners will be selected for 2021. To apply, visit [go.osu.edu/2021jeffco4hscholar](https://go.osu.edu/2021jeffco4hscholar)

## Mackenzie Smith Scholarship Update

The Jefferson County Fairboard will again offer the Mackenzie Smith Scholarship to one livestock exhibitor in 2021. Please watch the Jefferson County Fair Exhibitors & Campers page for more information as it becomes available.

[ohio4h.org/familyguide](https://ohio4h.org/familyguide)



# Out-of-County Statewide PAS Qualifying Horse Shows



## Congratulations Jefferson County Horse Judging and Hippology Teams

County	Contact Name	Contact Email or Phone #	Show Date(s)
Wyandot	Tiffany Derr	derrfarms@hotmail.com	May 30, 2021
Crawford	Trisha Tackett	trisha96_00@yahoo.com	June 4, 2021
Ashland	Phoebe Spidel	phoebeskafe@aol.com	June 5 & 19, 2021
Franklin	Becky Applegett	bapplege@columbus.rr.com	June 5 & 23, 2021
Medina	Ruth Billman	rebsister3@gmail.com	June 11, 2021
Ashtabula	Jenna Hoyt	hoyt.88@osu.edu	June 12, 2021
Lorain	Pam Loy	tyepamloy@yahoo.com	June 12, 2021
Guernsey	Michelle Fehr	fehr.19@osu.edu	June 12, 2021
Wayne	Doug Foxx	foxx.2@osu.edu	June 12, 2021 (Rain Date June 26)
Fairfield	Nick Tipple	614-783-8918	June 13, 2021
Putnam	Kelly Slattman	kslattman@aol.com	June 13, 2021
Morrow	Becky Barker	barker.157@osu.edu	June 13 & 27, 2021
Ottawa	Helen Duquette	duquette1234@gmail.com	June 13, 2021 (Rain Date June 20)
Fulton	Sara Lewis	lewis.3213@osu.edu	June 18, 2021
Muskingum	Jamie McConnell	mccConnell.210@osu.edu	June 19, 2021
Mahoning	Beth Smith	smith.11958@osu.edu	June 19, 2021
Hocking	Angelia Seum	seum.6@osu.edu	June 19, 2021
Adams	Kristy Watters	watters.92@osu.edu	June 19, 2021
Allen	Kelly Coble	coble.19@osu.edu	June 19, 2021
Wood	Jayne Roth	roth.4@osu.edu	June 19, 2021
Delaware	Laryssa Hook	hook.26@osu.edu	June 19 & 20, 2021
Champaign	Melinda Ryan	ryan.1608@osu.edu	June 19, 2021 (Rain Date July 3)
Darke	Angie Young	sadieyoung101@yahoo.com	June 20, 2021
Clinton	Tracie Montague	montague.18@osu.edu	June 20, 2021
Belmont	Tracey Dickerson	dickerson.300@osu.edu	June 20, 2021
Licking	Lisa McCutcheon	mccutcheon.46@osu.edu	June 26, 2021
Erie	Betsy Gordon	betsygordon@roadrunner.com	June 26, 2021
Portage	Angela Polichena	polly645@aol.com	June 26, 2021
Scioto	Josi Brodt-Evans	brodt-evans.1@osu.edu	June 26 & 27, 2021
Knox	Andrea Rees	rees.139@osu.edu	June 27, 2021
Coshocton	Jenny Strickler	strickler.60@osu.edu	June 27, 2021
Clark	Patty House	house.18@osu.edu	June 27, 2021
Shelby	Jessica Adams	adams.2309@osu.edu	June 27, 2021

**Jefferson County Horse Camp is  
scheduled for June 4-6. More  
information and the forms can be  
found at  
[go.osu.edu/2021jeffcohorsecamp](http://go.osu.edu/2021jeffcohorsecamp).**

**Jefferson County PAS Show  
June 26, 2021 at the  
Fairgrounds - Watch for  
information on the 4-H  
Facebook group.**

## Free Spirits donated to the Jefferson County Humane Society



Cooperative Connection

Great job to the following Jefferson County 4-Hers who participated in the OSU State Horse Hippology and Judging Competition!

Jefferson County was well represented with many, many top ten finishes, individually and as a team.

All state results are available on the OSU 4-H Horse website.

Leila Sudvary - Broken Fences - Junior Team A  
Maddie Granatir - Country Rangers - Junior Team A

Mya Keenan - Country Classics - Junior Team A  
Blair Allison - Wildwood Critters - Junior Team A

Amelia Ault - Broken Fences - Junior Team B  
Mayelee Rawson - Country Classics - Junior Team B

Ava Conley - Town & Country - Junior Team B  
Adalee Long - Country Classics - Junior Team B

Courtney Cooley - Country Classics - Senior Team

Harlee Heldreth - Country Classics - Senior Team

## Results were as follows:

**Junior Individual Exam**  
Mya Keenan 5th, Leila Sudvary 6th

**Individual Stations**  
Leila Sudvary 7th, Maddie Granatir, 9th, Mya Keenan 10th

**Individual Judging**  
Leila Sudvary 8th

**Overall Individual**  
Leila Sudvary 5th

**Team Competition**  
**Team Exam**  
Team A - 4th

**Team Stations**  
Team A - 2nd

**Team Judging**  
Team A - 4th  
Team B - 8th

**Overall Team Judging Score**  
Team A - 4th

**Hippology Team Overall**  
Team A - 5th





# Attention Horse Project Youth Dressage Opportunities

The new Ohio Valley Dressage Association (OVDA) is hosting 4 (English and Western) schooling dressage shows this summer. Shows are open to everyone adults as well as youth (4-H and non-4-H)

**The first two shows can be used by 4-H riders as qualifying shows for the Ohio State Fair Junior Horse Dressage Show.**

The dressage show dates and locations are as follows:

- First show: **May 22**. Deadline for registration **May 15** - Steubenville Saddle Club, 8675 State Route 152 Richmond, OH
- Second Show: **June 12**. Deadline for registration **June 5** - Friendship Park (fairgrounds) Arena, Smithfield, OH
- Third Show: **July 17**. Deadline for registration **July 10** - St. Martin's Stable, 9798 County Road 10 Adena, OH
- Fourth Show: **Sept. 18**. Registration deadline is **Sept. 11** - Steubenville Saddle Club, 8675 State Route 152 Richmond, OH

For questions or to obtain entry forms, contact:

- Lori Mayher [lamayher@windstream.net](mailto:lamayher@windstream.net) 740-512-4328
- Robin Callon [callon.clan@yahoo.com](mailto:callon.clan@yahoo.com) 805-535-5419

**Why try out for Ohio State Fair dressage?** If you qualify for State Fair dressage show, it makes your trip to Columbus more exciting because it gives you the opportunity to show more classes in addition to your PAS classes. Dr. Kimberly Cole from the state Extension office explains that "Youth can show in a maximum of four (dressage) classes at state fair. Since the dressage classes are technically considered a separate show, the same youth can show in 2 western dressage and 2 classical dressage classes as well (using the same horse). This information is posted online at <http://horse.osu.edu> on the Junior Horse Show page.

## Jefferson County Horse Camp

June 4, 5, 6, 2021

Horse Camp Theme: COME BACK DERBY!!

We will be having a Hat/Helmet Decorating  
Contest Kentucky Derby Theme:

We will be judging on the following criteria:

Most Creative  
Most Colorful  
Funniest  
Most Upcycle  
Most Original  
Most Glamorous

DON'T FORGET AN OHIO 4-H  
HEALTH FORM AS A TICKET TO GET  
IN - DOWNLOAD AT:

**[go.osu.edu/2021jeffcohealth](http://go.osu.edu/2021jeffcohealth)**



# FAIR CODE OF CONDUCT

Remember to fill out the Fair Code Of Conduct and Agricultural Society Release on Facebook!

In addition to 4-H online enrollment, there is a link to the Fair Code of Conduct and the Agricultural Society Release on the county 4-H Facebook page under the announcements section and on the county website. Remember every year these need to be filled out in addition to 4-H enrollment. Be sure to put the date at the end. If you do not have Facebook, please email [allison.325@osu.edu](mailto:allison.325@osu.edu) to request a paper copy.

## JEFFERSON COUNTY 2021 POSSESSION DATES & RULES

Dogs/Horses/Rabbits – June 1

Market Goats, Lambs, Feeder Calves, Market Hogs,  
Dairy Beef Feeders – May 1

Possessions of animals: Animals must be cared for by the youth member after a project is weighed-in, tagged in, and/or registered as a project. Animals must be stalled at the exhibitor's residence (as defined by school registration or driver's license). Any other location must be submitted in writing to the Jefferson County Jr. Fair Committee prior to start of project for approval by the committee. During the project year, if circumstances require a change in location and/or possession, the same written permission must be submitted and approved. The stalling location must be within a 30-mile radius of the exhibitor's residence for consideration. Failure to comply with the possession rule will result in the exhibitor being suspended from participating on any level in the Jefferson County Fair for 1 year.

**Jefferson County Jr. Fairboard information will be posted on the Jefferson County Fair Official Facebook Page.**

Cooperative Connection

# 2021 SKILLATHON

**2021 Skillathon will be online using a new Qualtrics method! This means it should be easier to navigate and the questions come right from the state Skillathon test.**

**Skillathon will open April 1. It will close July 23. This is three months to complete the test online! The links are posted on our County Facebook page and on our county website.**

Launch your  
**PARENTING**  
to new  
heights



**JOIN YOUR BLAST OFF FLIGHT CREW -**

Joseph Maiorano, Chris Kendle and Bridget Britton – as they provide strategies to LAUNCH your parenting skills into a successful future!

During this FREE 3-session virtual workshop, we use *Active Parenting, First Five Years* curriculum to introduce you to tools that may help you to raise responsible, confident children and to navigate through issues that many parents struggle with.

### UPCOMING WORKSHOPS:

9-11 AM May 4, 11, 18  
6-8 PM May 24, 25, 26

Future missions to be announced later

COST: FREE

Pre-registration for this workshop is required and space is limited. To register, visit: [go.osu.edu/blastoffreg](https://go.osu.edu/blastoffreg)

Complete a three-session series and receive a Walmart gift card reward.



# Tentative Jefferson County 4-H Calendar 2021

*\*\* (Dates Are Subject to Change)*

May 15: State 4-H Youth Assistant applications due  
May 29-June 1: State Leadership Camp  
May 28: **Campership** forms due  
May 24-June 4: Species clinics – see page 23  
June 3-5: Ohio 4-H Camp Tech  
June 4-6: Jefferson County Horse Camp and live horse Skillathon/Horse QA at the Fairgrounds  
June 9: Contest Day at the Fairgrounds 6PM  
June 9: Live horse Skillathon at the Fairgrounds from 6 PM-8 PM  
June 9: Horse Quality Assurance 7:30PM  
June 13-18: Camp Canopy  
June 14: State Horse Bowl  
June 16-18: 4-H Camp @ the Jefferson County Fairgrounds  
June 20: Ohio State Junior Fair livestock entries due  
June 20: Avian Bowl Registration due  
June 26: 4-H Cloverbot Challenge  
June 26: Jefferson County PAS Show **(This is a date change.)**  
July 1: State Dog Poster entries due  
July 1: Area IV Health and Safety Speaking Contest  
July 23: Skillathon closes  
July 7: Ohio State Fair Horse entries due  
July 10: Project Judging Day 9AM  
July 12-15: Virtual Leadership Washington Focus  
July 19-23: Ohio 4-H Junior Horse Show  
July 31: Rabbit/Poultry Tag-In @ the Jefferson County Fairgrounds 9AM - Noon  
July 22: TLC State Fair Training  
July 28: The Ohio State Fair starts  
July 30: State Fair Livestock Judging Contest  
July 31: Jefferson County Poultry/Rabbit tag in 8 AM - NOON  
August 13: Teen Leadership Council applications due  
August 15 – 22: Jefferson County Fair Week

## JEFFERSON COUNTY FAIR BOOTH THEME:

The Jefferson County Fair  
Celebrating 150 Years  
Remembering The Past...  
And Our Story is Still Unfolding

## POULTRY AND RABBIT TAG-IN DAY JULY 31

Jefferson County Poultry And Rabbit Tag-In Day will be held from 9 AM – Noon, Saturday, July 31. This applies to chickens, turkeys, ducks, geese, breeding rabbits, pet rabbits that have not shown at the Jefferson County fair previously and market rabbits. If your rabbit does not have a legible tattoo, it also must come to tag-in.

### Poultry Hatch Dates for 2021:

**Turkey: March 29**

**Goose: May 24**

**Duck: June 21**

**Chicken: June 28**

**Yes! There will be rabbit hopping! Questions contact Tammy Mazzaferro at 740-346-6306.**

**Chicken Pullorum Testing will be held in 2021. This means that ALL chickens being shown at the Jefferson County Fair must come to poultry tag-in for testing.**

# Most Outstanding Exhibitor 2021

## There are lots of changes!



### Here are the new requirements:

1. Clinic - 50 points - Local event MANDATORY. You must preregister for and attend a **Jefferson County** Clinic if one is offered. (Jefferson County Horse Camp for the horse folks, dog classes with Danielle Lish for the dog projects.) Otherwise, an out of county clinic is acceptable. See page 23 of this newsletter for info on our 2021 county clinics.
2. Skillathon score is your actual score.
3. Achievement Form - 50 points - complete and turn in at Contest Day registration to verify that you are competing to be considered for MOE.
4. Interview Score - 100 points – 1st place interview 100, 2nd place interview 90, third place interview 80, etc.
5. Showmanship – 100 points - 1st place interview 100, 2nd place interview 90, third place interview 80, etc. Qualifiers for Supreme Showmanship get 100 points automatically.
6. Supreme Showmanship (if applicable) – 1st place 10 points, 2nd place 8 points, 3rd place 6 points, 4th place 4 points, 5th place 2 points.
7. Book completion – 50 points for a complete project book. Book reviewers can choose to take off points for incomplete books. These are to be turned in at the 4-H awards ceremony at the fair.
8. Tie breaker – Highest Showmanship and Supreme Showmanship score, followed by Skillathon score, followed by Interview score.

**Contest Day Species Interviews will be held starting at 6PM on June 9 at the Jefferson County Fairgrounds. Preregistration is required for an interview appointment by signing up for contest day with your advisor and specifying MOE. To be considered for MOE, you must turn in a printed copy of your completed Achievement Form on June 9 at the Contest Day registration table BEFORE your interview.**

For a copy of the score sheet, click [here](#).

**Horse Forms  
Dog Forms  
Rabbit Forms  
all due June 1 to  
500 Market Street, Suite 512,  
Steubenville, OH 43952**

## Hold The Date:

Annual 4-H Advisors Appreciation Banquet October 11 at  
Le Chateau Pier in Smithfield





# Not just for horses.. 4-H Tack Sale

June 4, 6PM

CYA Exchange (Formerly Carrollton  
Livestock Auction)

CYA Exchange, LLC  
1101 S. Lisbon St  
PO Box 548  
Carrollton, OH 44615

For more information contact:  
[cyaexchange@gmail.com](mailto:cyaexchange@gmail.com)



## To Compete For 2021 Most Outstanding 4-H'er

- Participate in a judged competition at either Contest Day June 9 or Project Judging Day July 10.
- Update your Ohio 4-H Achievement Form after the Jefferson County Fair, complete with advisor signature.
- Turn in the form to the Extension Office by Sept. 15.
- You will be contacted for an interview to be held the last week of September/first week of October.



## DAIRY PALOOZA 2021 EVENT UPDATE

Over the past ten years, DairyPalooza has become a significant event for Ohio 4-H dairy members, advisors, parents, and industry enthusiasts. Every year, attendees of DairyPalooza could count on “hands on” teaching for all ages, plenty of free resources, and robust quality assurance training.

The challenges we faced 2020 and 2021 changed our program’s direction, and we scrambled to re-direct our event to an online experience. However, it became evident that we could not provide that spark of enthusiasm without the one-on-one interaction that we’ve come to know from DairyPalooza.

For 2021, rather than presenting sessions online to the Zoom-weary, we have decided to create a set of resources that anyone can access at any time. The variety of educational tools that have been designed for use in the past year is truly incredible, and we are taking full advantage - it is said that necessity is the mother of invention, and in the past 18 months, we have all certainly been inventive!

Over the next month, we will be featuring our categorized topics related to dairy. Use them as you need for ideas for your own clubs, meetings, educational events or at home. Be on the lookout for our first set of resources soon - videos of an Ohio dairy judging contest as well as sample reasons!

Make sure to follow our Facebook page and find our resources listed on the Ohio 4-H Dairy Webpage under DairyPalooza. We will publish our links over the next month as a ‘work in progress,’ and we welcome your input to make the most of these resources!

We all work better together. Until we can return in-person in 2022, DairyPalooza is not cancelled - just in the process of a little makeover as we adapt to our current way of life!

Best wishes,

Ohio 4-H DairyPalooza Planning Committee

Bonnie Ayars and Sherri Smith

Ohio 4-H Dairy Youth Specialists [ayars.5@osu.edu](mailto:ayars.5@osu.edu) [smith.10072@osu.edu](mailto:smith.10072@osu.edu)

# Ohio State Fair to Showcase Junior Fair For 2021

To protect Ohioans and the long-term financial viability of the [#ohiostatefair](#), this year's event will be limited to livestock and educational competitions for exhibitors, their families, and guests. Concerts, entertainment, and your favorite traditions will resume in 2022.

For the last several months, we have been weighing options for how to safely open the gates to the 2021 Ohio State Fair. There is nothing more rewarding than cutting the ribbon and greeting thousands of fairgoers, exhibitors, vendors, sponsors, and entertainers. Together, we've enjoyed taking selfies by the butter cow, talking to Smokey Bear, eating deep-fried food on a stick, walking down the brightly lit Midway, visiting the livestock barns, and listening to the sounds of the All-Ohio State Fair Band & Youth Choir.

We're optimistic about where our state will be as more and more Ohioans are vaccinated. And, we've been closely following the latest public health guidance, and believe that Ohioans will continue to wear masks, practice social distancing, and wash hands to get us below 50 cases per 100,000 Ohioans for a two-week period, bringing the COVID-19 public health orders to an end. While we are hopeful that we will soon be on the other side of this pandemic, the reality is that cases of COVID-19 remain high, and we just don't know how things will look in July.

That is why we have decided to significantly limit the scope of the 2021 Ohio State Fair, focusing on livestock competitions and concluding with a modified Sale of Champions to celebrate the hard work of our young exhibitors. The Fair will not be open to the public, and will be limited to exhibitors, their families, and guests, stretching the Fair over a longer period of time with an anticipated start date of July 19. This decision will not only help to protect the health and safety of Ohioans, it will also protect the long-term financial viability of the fair.

Many of the typical things associated with the Ohio State Fair – rides, concerts, entertainers, live music, food vendors, and shopping – are expected to return in 2022.

The 2021 Ohio State Fair will be open to exhibitors and family members for youth and senior livestock competitions, along with educational project judging for non-livestock competitions, such as 4-H. Detailed plans are forthcoming.

We are thankful for the support of our exhibitors, volunteers, vendors, partners, performers, concessionaires, youth leaders and sponsors, and look forward to being together again. The 2022 Ohio State Fair is slated for July 27.



Advisors verify your 4-H flowerbeds at the fairgrounds by calling or texting Crystal Conaway at 740-381-1774. Current Locations need verified by May 15, or you may lose your favorite location to another club. Clubs currently assigned to a flowerbed include:

Cross Creek Tomahawks  
Purple Circle  
Happy Hooves and Fancy Feathers  
Buckeye Variety  
Ribbons and Wranglers

Some of you have already been working on your flowers beds but have not verified this location with the fairboard. Please, call Crystal immediately! See page 22 for information on the pollinator project and score some free plants for your flowerbed!!

## Special Needs Camp At Canter's Cave

*July 9-11, 2021*

If you would like more information about attending or supporting Special Needs Camp at Canter's Cave 4-H Camp, please contact Michelle Stumbo, Camp Program Director, at 740-691-6010 or [stumbo.5@osu.edu](mailto:stumbo.5@osu.edu).

"4-H is for everyone," but sometimes accessibility issues deny youth with unique abilities the opportunity to attend camp. In Ohio, a statewide 4-H camp is held at Canter's Cave 4-H Camp in Jackson, Ohio for young people who have needs that cannot be accommodated for in a traditional camp and their caregivers. Being a typical kid is what Camp is all about and it is no different for youth with special needs. Our goal is to give Campers a true experience of Camp while meeting their needs and letting them set their own pace for fun and success!





# Virtual Iron Chef 2021 RESULTS

**Thank you for participating in the virtual iron chef! It is our hope that next year we can hold this event in person again!**  
**REMEMBER: This is only one judge's opinion on one day!!**

## Breakfast Individual

1<sup>st</sup> - Autumn Grafton (4-H Varieties) Blueberry Cream Cheese French Toast

## Breakfast Team

1<sup>st</sup> - Joseph and Madison Taylor (4-H Varieties) Cheesy Egg Bites

2<sup>nd</sup> - Olivia and Atreyu Dudley (Warren Ridge Wranglers) Southern Comfort Breakfast Ring

3<sup>rd</sup> - Amelia Ault, Olivia Ault, Abigail Kinney, Leila Sudvary (Broken Fences) Greek Omelet

4<sup>th</sup> - Hayleigh Carlier and McKenna Halicky (Windy Ridge) Blackberry Crepes

5<sup>th</sup> - Katie and Libbey Rivers (Country Rangers) Blueberry Ricotta Crostini

## Individual Main Dish

1<sup>st</sup> - Aubrey Duggan (Cross Creek Tomahawks) Reuben

2<sup>nd</sup> - Aubrey Hepburn (Warren Ridge Wranglers) Stuffed Shells

3<sup>rd</sup> - Noah Graham (4-H Varieties) Gluten Free Lobster Pizza

4<sup>th</sup> - Aiden Cooper (Happy Hooves and Fancy Feathers) Cheesy Lasagna

5<sup>th</sup> - Cameron Kerkuta (Happy Hooves and Fancy Feathers) Cheesy Buffalo Chicken Pasta

6<sup>th</sup> - Denvar Nelson (Warren Ridge Wranglers) Haven's Heavenly Grilled Cheese

## Team Main Dish

1<sup>st</sup> - Ava Aftanas, Bryden & Avery Kittle (Cross Creek Tomahawks) Fettuccine Alfredo Broccoli & Grilled Chicken

2<sup>nd</sup> - Christian, Chandler and Clara Hoffman (Liberty Gals & Guys) Mac & Cheese Balls

3<sup>rd</sup> - Madison and Brody Zeroski (Windy Ridge) Broccoli and Cheese Soup

4<sup>th</sup> - Brianna and Kaitlynn Merkel (Country Rangers) Cheesy Meatball Soup

5<sup>th</sup> - Addie Erwin and Rhiannon Jones (Windy Ridge) Mac & Cheese Bundt

6<sup>th</sup> - JP Wilson, Ava Smith and Thomas Smith (Cross Creek Tomahawks) Pac Man Pizza

7<sup>th</sup> - Pressley Snodgrass and Harper Bray (Ribbons & Wranglers) Fried Mozzarella

## Dessert Individual

1<sup>st</sup> - Danica Scott (Warren Ridge Wranglers) Goat Cheese Mousse with Strawberries

2<sup>nd</sup> - Emma Burr (4-H Varieties) Triple-cheese cheesecake w/ Biscoff Crust

## Dessert Team

1<sup>st</sup> - Mya Keenan (Country Classics)/Blair Allison (Wildwood Critters) Italian Olive Oil Cake with mascarpone filling and lemon curd

2<sup>nd</sup> - Jasmine and Chasity Stewart (Warren Ridge Wranglers) Cheesecake Cookie Bars

3<sup>rd</sup> - Alayna and Karly Starr (Happy Hooves and Fancy Feathers) - Easy Peasy Creamy Cheesy Peanut Butter Fudge

4<sup>th</sup> - Delia Wetherell and Neveah Sanders (Liberty Gals & Guys) - 4<sup>th</sup> of July Fruit Pizza

5<sup>th</sup> - Coleman & Catalina Holly, Katelin & Crystal Wilson, Emileah Booth (Broken Fences) - Cheesecake w/ Raspberry Topping

## Iron Chef Cloverbud Participation

Ryot Bennett  
Dominic Stewart  
Davin Nelson  
Logan Dudley  
Kennedy Cooper  
Ryker Seditz  
Dillon Goddard

All of the cloverbuds made amazing cheeseballs and did a wonderful job on presentation.

## OHIO 4-H VOLUNTEER ONLINE TRAINING COURSES

### Instructions for accessing Policy 1.50 and New Volunteer Orientation Training

#### Online Canvas Courses due July 1<sup>st</sup>

*Policy 1.50 is for all volunteers. The new volunteer training is only required for new advisors in 2021.*

1. Visit the self-registration link below for the required course(s) you need.
  - Activities & Programs with Minor Participants Policy 1.50 Training
  - Ohio 4-H New Volunteer OrientationVisit [cfaesosou.catalog.instructure.com](https://cfaesosou.catalog.instructure.com) to access the course catalog and enroll in each class
2. Fill out the registration form. Name and email addresses are required. It is okay to enter "0" for the phone number and zip code. Enter "NA" for title and company.
3. After filling out the registration form, you will receive two emails from the Canvas Catalog. One email will ask you to complete your registration, the other will confirm your enrollment in your course(s).
4. After creating your account to complete required training, we encourage you to bookmark the login page at [scarlet.instructure.com/login/canvas](https://scarlet.instructure.com/login/canvas)

# Free Flowerbed Plants And Free Money: Read Below!

## JEFFERSON COUNTY POLLINATOR PROJECT

*Sponsored by Jefferson County Farm Bureau*



JEFFERSON COUNTY

*In Collaboration with:  
Jefferson County 4-H, Jefferson County Fair Board,  
Sam Gill, Plant Specialist, Woodland Trails Greenhouse*



### ***What is the POLLINATOR PROJECT?***

Jefferson County Farm Bureau invites all Jefferson County 4-H Clubs to participate in the Pollinator Project Contest. In this unique, educational contest, all clubs will have the opportunity to learn about pollinators and what they do for our environment, plant management from plant specialists and more, while adding beautiful gardens around the fairgrounds!

Each participating 4-H Club will be assigned a flowerbed at the fairgrounds to design and maintain their pollinator garden. The flowerbeds will be judged during the 2021 Jefferson County Fair.

*Let's get planting....Join us on*

**Wednesday, JUNE 9, 2021 at 5 p.m.  
Jefferson County Fairgrounds**



**Sam Gill, Plant Specialist and Owner  
at Woodland Trails Greenhouse,  
will present an educational seminar to kick-off our project.**

**Each club will be provided 3 plants that must be used in  
their garden design.**



### **PRIZES**

**1st Place  
\$50.00 and a  
\$50 Woodland Trails  
Greenhouse Gift Card**

**2nd Place  
\$25.00**

**3rd place  
\$15.00**

### **Contest guidelines:**

1. Each 4-H Club must attend the educational seminar on June 9th.
2. Each flowerbed design must use all three (3) plants provided to the club.
3. A map of the flowerbed layout, including type of plants and location, is required for each club flowerbed design.
4. Additional plants can be used in the flowerbed design.
5. *Learn new things and have fun.....Creativity is Encouraged!!*

***Judging will be take place during the 2021 Jefferson County Fair.***

***Questions?***

**John Grafton 740-219-2597 Angie Allison 740-381-2253  
Sam Gill 740-278-2207**

**If your club needs additional pollinators plants, perennials or annuals for your flower bed,  
contact Sam Gill at 740-278-2207.**





# Jefferson County Virtual Show Clinics

Anybody can join – Mandatory local clinic for MOE competitors

Do you want to learn more about or brush up on the basic needs, nutrition and showmanship skills related to your favorite species? We have some great virtual opportunities for you, showcasing nationally known clinicians.

The following clinics will be available from the comfort of your own home via Zoom! They will be available only one-time. If you intend to be a MOE competitor, these local clinics related to the species in which you are competing are mandatory.

**If you are a MOE contestant and can not make the live Zoom date, contact [allison.325@osu.edu](mailto:allison.325@osu.edu), to make other arrangements. Special arrangements will be made in rare cases.**

**Pre-registration is REQUIRED for these Zoom sessions! Contact [allison.325@osu.edu](mailto:allison.325@osu.edu) to register. Links will only be sent to those 4-H'ers who are registered by 4PM May 21.**

Horse folks – Your required MOE clinic is Jefferson County Horse Camp.

Small animal folks – Please join any clinic below if your species is not represented.

Beef – Clinic will be coordinated by Rob Vein and hosted by nationally recognized Silver Barn Cattle at 6PM, Tuesday, May 25.

Poultry – Webinar will be coordinated by Erika Lyon and taught by Dr. Tim McDermott, DVM of Ohio State University Extension, Franklin County at 6:30PM Tuesday, May 25.

Rabbit – Clinic will be hosted by our very own rabbit expert Tammy Mazzaferro at 6PM on Monday, May 24.

Swine – Clinic will be hosted by our very own key leader, Clint Finney at 7PM June 3.

Dairy – Clinic will be hosted by our very own dairy expert, Steve Griffith at 7PM June 2.

Market Goat – Clinic will be hosted by our very own key leader, Kelly Valuska at 6PM June 2.

Pygmy/companion goat – Clinic will be taught by Columbiana County Breeder Johnna Timmons of Rocky Hollow Farm at 7PM May 27.

Sheep – Clinic will be hosted by Clint Finney at 6PM June 3.



# Livestock Quality Assurance Still Available Up to 45 Days Before Exhibition

Complete Quality Assurance Through YQCA



Pigs - Beef Cattle - Dairy Cattle – Sheep - Goats - Market Rabbits - Poultry

Youth for the Quality Care of Animals (YQCA) is a national multi-species quality assurance program for youth ages 8 to 21 with a focus on three core pillars: food safety, animal well-being, and character development.

YQCA certification is being accepted by many livestock shows and fairs that require youth quality assurance certification. Always check the entry requirements of each show for complete details.

YQCA is available as an online program for youth everywhere in the United States. YQCA is also offered as an instructor-led training and as a test out certification. Contact the entity requiring your YQCA certification to see which is available in your state or contact [info@yqca.org](mailto:info@yqca.org). Learn more about each type of training at [yqca.org](http://yqca.org)

## DOG PROJECT YOUTH

Danielle Lish will again be conducting dog clinics at the Jefferson County Fairgrounds. To be added to her mailing list for the times and dates of each session, videos, and other pertinent information, email your name and project with the SUBJECT: 4-H Dog Project Youth to [lishdanielle@gmail.com](mailto:lishdanielle@gmail.com)



**2021 4-H CAMP: Blast Off to 4-H Space Camp @ the Jefferson County Fairgrounds**  
June 16-18

Applications are due May 28. Visit [go.osu.edu/2021jeffcospacecamp](http://go.osu.edu/2021jeffcospacecamp) to access brochure and registration form





# Contest Day

6PM June 9, 2021

*Jefferson County  
Fairgrounds*

## **Cloverbud Contest Day Arrive at 6PM for activities. Stay to play games with the camp counselors.**

- Bring an old boot to plant.
- Recite the 4-H pledge to receive a bead and a certificate.
- Turn in pop tabs to fill the Cloverbud jar for the office booth at the fair.
- Ages 5-8 create a birthday card without the use of computer graphics or scrapbooking tools to earn a bead. Submit by June 7 so we can display them. This should be an original "birthday" card with artwork on the cover and a verse or message inside telling someone happy birthday. Cards are to be made on cardstock paper 8 1/2 x 11 folded in half. On the back of the card put made by first and last name. Use of copyrighted or protected characters or logos are not permitted.

Cloverbud cards must be received by June 7, 2021 to 500 Market Street, Suite 512, Steubenville, OH 43952 Attn: Leslie

ALL CONTEST DAY REGISTRATIONS MUST BE RECEIVED BY JUNE 1 FROM ADVISORS.

For more detailed information, see the Contest Day packet on the website and on Facebook.

Contest Day will be in-person for 2021. Pre-registration is required from your club advisor by June 1 for every activity. You will receive a schedule with your interview time.

Competitions in which you can compete:

**Marketing Division:** Cards sent before Contest Day to 500 Market Street, Suite 512, Steubenville, OH 43952. Must be **received** in the office by June 7.

### **Individual Achievement Speech (Required for MOE contestants):**

In-person interview by species. Must bring in an updated Ohio Achievement Form to the interview. A phone interview can be arranged for those with serious concerns about COVID. Species include: Horse, Small Animal, Swine, Beef, Sheep, Goat, Dog

### **Individual Demonstration or Individual Illustrated Talk** No team events

**Reduce, Reuse, Recycle Review:** Display of the wearable clothing item. Club-wide entries are permissible.

Other competitions include **Health & Safety Speaking Contest (Individual only), 4-H Infomercial, Reciting of the 4-H Pledge, Reciting of the 4-H Creed Video, Species Interviews - Rabbits & Poultry, and Horse Poster Contest / Dog Poster Contest**

**Horse Live Skillathon open until 7:30PM**

**Horse QA @7:30PM in the Fairboard Office**

# Project Judging Day – July 10

Back by popular demand, the opportunity to complete your still project one of three ways in 2021.

- Advisor sign off option – Meet with your advisor, display your completed project book with activities. This option does not allow for county placing or the opportunity to advance for state competitions. However, with your advisor's signature, your project is considered complete.
- Zoom interview - This option does not allow for county placing or advancement to state competition. However, you do get the chance for a compete interview process with a judge. There will be a participation ribbon for these individuals.
- In-person - This is the only option to place at the county level and to advance to state competition. You will have a scheduled time for judging.
- FOR ALL PROJECTS FOLLOW THE PROJECT COMPLETION REQUIREMENTS FOR 2021 FOUND ON OUR FACEBOOK PAGE UNDER THE FILES SECTION.
- Advisors are asked to submit a list for their club of project youth participating in still projects with their chosen completion opportunity so that we can email an interview time to those participating via Zoom and in-person.



## *Webinar:* Senior Scams

June 23, 2021 at 11:00 – Noon

Register at

**[go.osu.edu/2021jeffcoseniorscams](https://go.osu.edu/2021jeffcoseniorscams)**

Seniors (age 60 and up) are particularly vulnerable to fraud and scams, however many incidents likely go unreported. Learn about the latest scams targeting our senior population, and find out how to protect yourself and your loved ones. Hosted by Jefferson County Extension and the Office of the Ohio Attorney General.





# LESLIE'S CLOVERBUD CORNER



Hello Cloverbuds,

What do you know about the month of **May**? May is one of seven months that has 31 days in it. The month was thought

to be named after the Greek and Roman goddess Maia who symbolized growth. The flower for the month is the lily of the valley, and the birthstone is emerald (green). The month of May is known for love and success.

## *Cloverbud Activities for May and June*

- Help plant flowers or make your own herb or fairy garden – **flower bead**
- Make a thank you card to give to your teacher in May for a job well done – **schoolbook bead**
  - Mother's Day and Father's Day are both coming up soon. So go for a nature walk with mom and fishing with dad or anyone special that you want to do this with. Earn a **foot bead** and a **fish bead**
  - Go swimming to earn a swim bead



Remember to send me photos of your activities and I will mail your beads. You may also show me at our next meeting. Don't forget to check out the Contest Page for more activities!

We will also be having a Cloverbud meeting in person at the fairgrounds for a nature walk around the lake. Bring a kite we will be flying it. I will have all beads with me if anyone is missing some.

Email questions to me at [aftanas.2@osu.edu](mailto:aftanas.2@osu.edu).

## CLOVERBUD MEETING

May 16, 2021 AT 11:30am till 1:30pm Friendship Park by the lake.

Parents are asked to stay. Remember your necklaces!

**Check out the Facebook page for all activities available to Cloverbuds since September.**

# MAY WORD SEARCH

Find the word in the puzzle.

Words can go in any direction.

Words can share letters as they cross over each other.



E	B	B	Z	N	L	R	R	●	A	●	B	V	R	E
F	A	T	H	E	R	I	K	G	I	●	I	E	S	M
Z	E	Q	X	R	B	M	L	E	A	L	H	P	O	E
R	D	C	E	P	L	I	M	Y	M	T	R	F	D	R
P	N	M	F	P	I	N	●	S	●	I	W	R	L	A
N	M	T	W	V	S	T	Q	M	N	V	A	M	A	L
Y	E	L	S	R	A	P	S	G	H	T	A	M	G	D
W	B	Y	B	D	B	H	T	E	S	H	N	●	X	A
B	T	U	H	R	T	I	G	U	V	T	D	X	R	●
T	N	H	P	M	M	B	M	E	C	I	H	J	J	E
F	P	X	P	E	F	V	X	M	Z	F	H	Y	Y	Q
U	D	K	C	U	P	I	K	D	I	L	L	C	M	V
R	N	K	L	L	D	J	D	M	L	●	I	V	I	E
Z	Y	W	G	R	U	H	R	M	I	R	C	X	K	Q
X	A	E	V	T	S	M	I	U	S	A	Y	M	C	L

BASIL  
EMERALD  
MAIA  
MUSTARD  
THYME

CHIVES  
FATHER  
MINT  
PARSLEY

DILL  
LILY  
MOTHER  
SPRINGTIME







OHIO STATE UNIVERSITY EXTENSION

# BUCKEYE GARDENER ONLINE

*An OSU Master Gardener Program*

**CFAES**

THE OHIO STATE UNIVERSITY COLLEGE *of* FOOD, AGRICULTURAL, *and* ENVIRONMENTAL SCIENCES

Learn about the basics of gardening in this intensive online course that covers propagation, soils, pest management, and more! Participants will work through a series of videos, assigned readings, activities and quizzes covering everything you need to know to have a successful garden. Cost of the course is \$100. Enroll at

**<https://go.osu.edu/buckeyegardener>**

\*This course does not require volunteer service to participate. If you are interested in becoming a Master Gardener Volunteer, visit **[go.osu.edu/becomejeffharmqv](https://go.osu.edu/becomejeffharmqv)**.

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Ohio State University Extension Jefferson County greatly appreciates the support of the Jefferson County Commissioners: Dr. Thomas Graham, Dave Maple, Jr., and Tony Morelli.

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