

**COSHOCTON COUNTY AGRICULTURE & NATURAL RESOURCES**September 16, 2020 Issue

Labor Day Rainfall Eases Drought  
It's time for the Hessian Fly-free Date Again  
Poisonous Pasture Weeds  
Ask the Expert Sessions to be held during 2020 Farm Science Review  
Silo Film Screening during FSR

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Hello, Coshocton County! It looks like we are in for a nice stretch of dry and cooler weather. I see some nice 3<sup>rd</sup> and 4<sup>th</sup> cutting hay being mowed and quite a few soybean fields are starting to drop their leaves. It won't be long before harvest starts!

In a normal year, we would be busy making our travel plans for the Farm Science Review. However for the first time in its nearly 60 year history, the Farm Science Review will not be held in-person. Instead, a virtual show will be held and will come to you on your laptop or smartphone this year (but will be FREE).

You can watch livestreamed talks and recorded videos featuring the latest farm equipment, education, and research. I will be assisting with the Ask the Expert sessions and we have a whole host of sessions which you may be interested in (see article). Virtual visitors can find out more about the 2020 Farm Science Review at [fsr.osu.edu](http://fsr.osu.edu)

Enjoy the last week of summer and stay well!

Sincerely,

*David L. Marrison*

Coshocton County OSU Extension ANR Educator



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

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## Labor Day Rainfall Eases Drought

by: Aaron Wilson

Source: <https://agcrops.osu.edu/newsletter/corn-newsletter/2020-31/labor-day-rainfall-eases-drought>

Summer (June – August) 2020 ranks as the 11th warmest and 29th driest summer on record for the state of Ohio since 1895. Temperatures averaged 1-4°F above average (1981-2010), with 5-10 inches of rainfall across the northwestern half of the state and 10-15 inches across the southeastern half. Particularly dry this summer has been the northwestern counties, a few counties in central and southwest Ohio (e.g., Madison, Pickaway, Ross, Fayette, and Greene), as well as Richland, Ashland, Wayne, and Stark Counties.

Though too late for most crops in the state, recent rainfall is helping to recharge soil moisture. A slow-moving boundary draped across the state on Labor Day brought significant rainfall to much of northern Ohio. Most locations along and north of about I-70 (except NW Ohio) received 2-7" of rain. There was also a confirmed EF0 tornado a few miles east of Delaware with estimated winds to 80 mph and a few reports of large hail across the state. As of Thursday September 10, 2020, the [U.S. Drought Monitor](#) indicates about 19% of Ohio is experiencing abnormally dry to moderate drought conditions, down from about 37% the prior week (Figure 1). For more information on recent climate conditions and impacts, check out the latest [Hydro-Climate Assessment](#) from the [State Climate Office of Ohio](#).

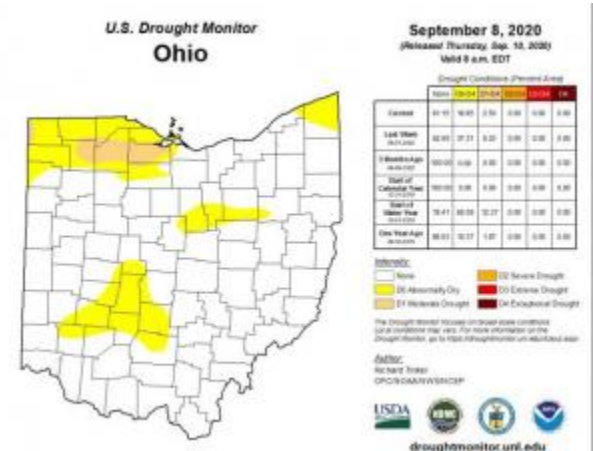


Figure 1: U.S. Drought Monitor for Ohio as reported on Thursday September 10, 2020.

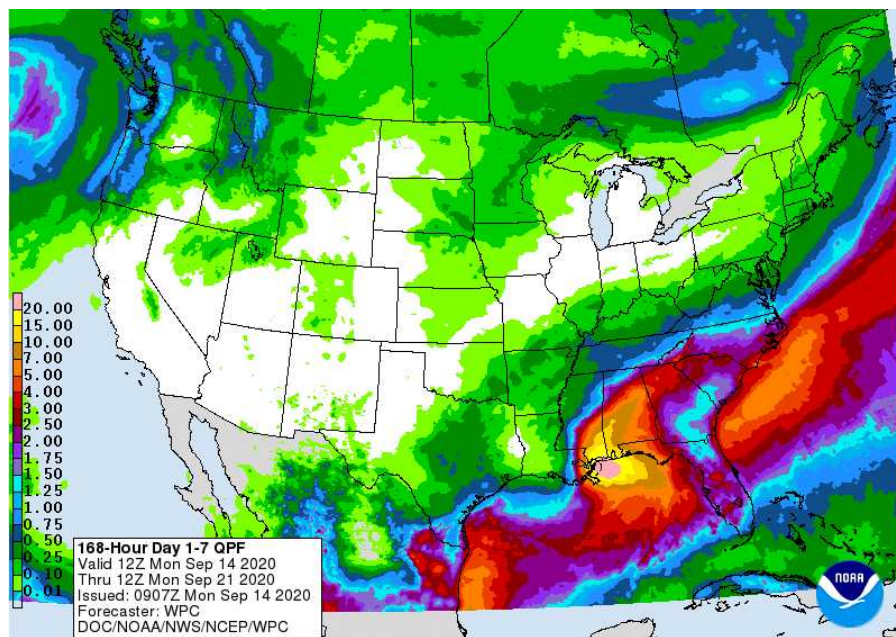


Figure 2: Forecast precipitation for the next 7 days. Valid from 8 am Monday September 14, 2020 through 8 am Monday September 21, 2020. Figure from the [Weather Prediction Center](#).

### Forecast

High pressure and pleasant conditions are on tap for much of the upcoming week. A cold front approaching the region on Thursday could draw up some moisture from what is left of Hurricane Sally; but if it does, it is only expected to impact counties near the Ohio River. High temperatures this week should top out in 60s and 70s across the state, with overnight lows in the 40s and 50s. A reinforcing high pressure system over the weekend



will reinforce cool, dry conditions over the weekend. The Weather Prediction Center is currently forecasting less than 0.25" across the southern counties and dry conditions across the north (Figure 2).

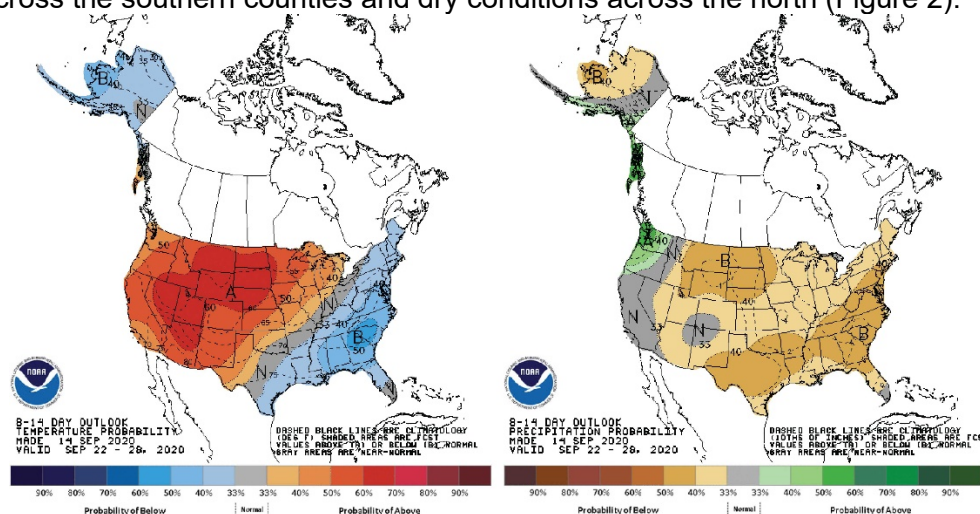


Figure 3: Climate Prediction Center 8-14 Day Outlook valid for September 22 – 28, 2020 for left) temperatures and right) precipitation. Colors represent the probability of below, normal, or above normal conditions.

The latest [NOAA/NWS/Climate Prediction Center](#) outlook for the 8-14 day period (September 22 - 28) and the [16-Day Rainfall Outlook from NOAA/NWS/Ohio River Forecast Center](#) show elevated probabilities for near average temperatures and below average precipitation (Figure 3). Normal highs during the period are in the low to mid- to upper-70s, lows in the mid- to upper-50s, with about 0.75" of rainfall per week.

## It's Time for the Hessian Fly-Free Date Again

By: [Andy Michel](#), [Pierce Paul](#), [Kelley Tilton](#)

The cold temperatures this week reminded us that we are approaching our fly-free date for Ohio. These dates are based on predictions on when most Hessian fly adults would no longer be alive to lay eggs on emerging wheat. Planting winter crops after this date is a good practice to prevent infestations. Areas of Northern Ohio can safely plant wheat after September 22, whereas the dates in southern Ohio extend to October 4 and 5.



The fly free date can also be used for both cover crops and to manage diseases. Hessian fly can infest certain types of cover crops such as rye and triticale. While we may not worry about yield loss in cover crops, high populations in the winter may provide for infestations in the following spring. For diseases, the biggest advantage and most important benefit of planting after the fly-safe date is reduction in fall establishment of Barley Yellow Dwarf Virus (BYDV), Stagonospora blotch, and Septoria leaf spot. Populations of the aphids that transmit BYDV are usually much lower after the fly-safe date, thus reducing the level of transmission of the disease to the new crop. BYDV tends to be more damaging and causes the greatest yield loss when it becomes established in the fall. For leaf diseases such as Stagonospora and Septoria, planting after the fly-safe date also reduces the risk of fall infections. When Stagonospora- and Septoria-causing fungi overwinter in the leaves, this usually gives both diseases a head-start in the spring, leading to great and earlier damage of the flag leaves before grain-fill is complete, and consequently, greater yield loss if a susceptible cultivar is planted and diseases are not managed with a fungicide.

## Poisonous Pasture Weeds

By: Dwight Lingenfelter, Extension Associate, Weed Science, Penn State University

(Previously published online with [Penn State Extension: June 30, 2015](#))

Source: <https://u.osu.edu/sheep/2020/09/15/poisonous-pasture-weeds/>

As we transition into the fall, pastures will become less productive as temperatures decline. Be sure to scout your pasture fields for potentially dangerous weeds that your livestock may consider grazing on as other forages become limited.

Grazing animals will very rarely eat poisonous weeds if there are other options. However, the recent rain has been great for poisonous plant growth and the concern is heightened. The wet weather has been great for pasture growth but is also good for poisonous plant growth. Grazing animals will very rarely eat poisonous weeds if there are other options. Keeping pastures growing rapidly and knowing which species to be most concerned about will help in minimizing the risk of poisonous pasture plants.



(Image Source: Poison Hemlock – Hay & Forage Grower)

**Table 1. Selected poisonous plants of the Northeast (adapted from Fishel, 2000; Hardin, 1973; and Hill and Folland, 1986; and Wolfgang, Penn State)**

Plant	Problems/symptoms	Toxic ingredient — toxicity dosage
Bouncing bet	Leaves and stem – delayed for several days; depression, vomiting, abdominal pain, diarrhea	Saponin – amount equivalent to 3% animal dry weight) will kill within 4 hrs.
Buttercups	Leaves and stem especially in flower. Dried hay loses toxicity – anorexia, salivation, weakness, convulsions, breathing difficulty, death	Protoanemonin – toxicity reported to vary with species, age, and habitat, Generally 1-3% of body weight necessary.
Cherry, black	Leaves (wilted leaves are worse), stems, bark and fruit – anxiety, staggering, breathing difficulty, dilated pupils, bloat, death	Cyanogenic glycosides – Less than 0.25 lb leaves (fresh wt.) can be toxic to 100 lb animal. Leaves from several small to mid-sized branches are sufficient to kill an adult animal.
Hemlock, poison	All plant parts – nervousness, salivation, vomiting, diarrhea, weakness, paralysis, trembling, dilation of pupils convulsions, and coma, death	Coniine and others (pyridine alkaloids) – 0.5 to 4% (fresh wt.) equivalent of cattle wt, is toxic. In horses, 0.25% of body weight.
Jimsonweed	Entire plant (seeds are most toxic) – Thirst, mood swings, convulsions, coma, death	Solanaceous alkaloids – 0.06 to 0.09% (dry wt.) equivalent of animal body wt, is toxic.
Locust, black	Leaves (especially wilted), seeds, and inner bark – causes weakness, depression, anorexia, vomiting and diarrhea	Phytotoxin robin, glycoside robitinm – bark extract and powder in amount equivalent to 0.04 – 0.1% of animal wt. toxic to horses, Cattle 10-times more tolerant.
Milkweeds	Entire plant – depression, muscle tremors, spasms, bloat, difficult breathing	Glycosides and galitoxin – 0.3 to 0.6% of body weight.

**Table 1. Selected poisonous plants of the Northeast (adapted from Fishel, 2000; Hardin, 1973; and Hill and Folland, 1986; and Wolfgang, Penn State)**

Plant	Problems/symptoms	Toxic ingredient — toxicity dosage
Nightshade species	Vegetation, unripe fruit – loss of appetite, salivation, weakness, trembling, paralysis	Solanine – toxic at 42 mg/kg (LD50). 0.1 to 0.3% of body weight.
Pigweed species	Foliage (worse in drought) – kidney disease, weakness, edema, rapid respiration	Nitrates nitrate oxalates, unknown – 0.5 to 1% of diet. Sheep, hogs, and young calves most susceptible.
Pokeweed	Entire plant, especially roots – gastrointestinal cramps, weakened pulse, respiration, salivation	Phytolactinm – 10 or more berries can result in toxicity to humans, Unknown for livestock, but perhaps 100-200 berries/1000 lb.
Snakeroot, white	Leaves and stem – constipation, loss of appetite, salivation, rapid respiration. Toxin passes through milk (milk sickness)	Trophine alkaloid – varies from 1 to 2% of animal body wt, after 2 weeks. Toxin cumulative.
St. Johnswort	Flowers and leaves – photosensitivity which leads to redness of muzzle, around eyes, and around white hair	Hypericin – uncertain

Key points about weed forage quality and poisonous plants:

- Some weeds have excellent nutritive quality.
- Weeds in the vegetative stage of development usually are more nutritious than more mature weeds. Regardless of weed quality, livestock may avoid grazing certain plants because of taste, smell, or toxicity.
- Some plants contain potentially poisonous substances that may be toxic to livestock if consumed – properly identify potential problem weeds and consult with a veterinarian if necessary.
- A productive pasture is important to reduce the potential incidence of toxic weed exposure to livestock.
- Remember to soil test and maintain the proper lime and fertility levels. If possible, routinely mow or spray to manage weed problems within and around pasture area.

## ***Ask the Expert Sessions to be held during 2020 Farm Science Review***

By: David Marrison, Jeff Workman, and Chris Bruynis

Source: <https://u.osu.edu/ohioagmanager/2020/09/08/ask-the-expert-sessions-to-be-held-live-during-2020-farm-science-review/>

For the first time in its nearly 60 year history, Ohio State's Farm Science Review scheduled for September 22 - 24 will not be held in-person. Instead, a virtual show will be held and the Review will come to you on your laptop or smartphone this year, and for free. You can watch livestreamed talks and recorded videos featuring the latest farm equipment and research to pique your curiosity.

Virtual visitors can find out about the show's offerings by going to [fsr.osu.edu](https://fsr.osu.edu) and clicking on an image of the show's site. Within that image, people can click on the various icons to find the schedules for talks and demos they're most interested in, such as field demonstrations or "Ask the Expert" talks.

Among the livestreamed talks will be **Ask the Expert** presentations. Viewers will enter the talks through a Zoom meeting link and be able to post their questions in chat boxes. If you miss any, you can check back after the talks to watch the recordings.

The 20 minute "Ask the Expert" presentations at Farm Science Review are one segment of the College of Food, Agricultural, and Environmental Sciences (CFAES) and the College of Veterinary Medicine comprehensive Extension Education efforts during the three days of the Farm Science Review. Our experts

will share science-based recommendations and solutions to the issues people are facing regarding weather impacts, tariffs, veterinarian medicine, and low commodity prices.

Topics for talks at FSR this year include the risks of transmitting COVID-19 to your animals, the prospects of U.S. agricultural exports abroad, increasing profits from small grains by planting double crops, climate trends, managing cash flow on the farm, farm stress, and rental rates on agricultural land.

To access all prerecorded and livestreamed talks at Farm Science Review, sign up on or after Sept. 8 at [fsr.osu.edu](https://fsr.osu.edu).

A complete list of the Ask the Expert Session are as follows:

### **Tuesday, September 22, 2020**

#### **Keeping Backyard Poultry Healthy**

Tim McDermott DVM

10:40-11:00 a.m.

#### **Crop Inputs & Margins: Challenges for this Year and Next**

Barry Ward

11:00-11:20 a.m.

#### **Farm Stress-Finding the Sunshine in the Storm**

Sarah Noggle

11:20-11:40 a.m.

#### **COVID-19: What are the risks to my animals and to myself?**

Scott Kenney

11:40-12:00 p.m.

#### **Weather is Always on my Mind**

Aaron Wilson

12:00-12:20 p.m.

#### **How to Get \$4 Corn**

Ben Brown

12:20-12:40 p.m.

#### **Farm neighbor laws: Can we all just get along?**

Peggy Hall

12:40-1:00 p.m.

#### **Prospects for US Exports: Pandemic vs. the Phase 1 Agreement with China**

Ian Sheldon

1:00-1:20 p.m.

#### **Increasing Small Grains Profitability with Double Crops**

Eric Richer

1:20-1:40 p.m.

#### **Making Sense of the Modeling of Infectious Diseases**

Rebecca Garabed VMD

1:40-2:00 p.m.

#### **Ohio Cropland Values & Cash Rents: Is Change Coming?**

Barry Ward

2:00-2:20 p.m.

#### **Farm CFO: Doing More Than a Tax Return**

Bruce Clevenger

2:20-2:40 p.m.

#### **COVID-19: Impacts on Workers and the Food Supply or Where's the beef? How COVID-19 is altering animal agriculture**

Gustavo Schuenemann

DVM 2:40-3:00 p.m.

### **Wednesday, September 23, 2020**

#### **Weather is Always on my Mind**

Aaron Wilson

10:00-10:20 a.m.

#### **Farming through COVID**

Chris Zoller & Dee Jepsen

10:20-10:40 a.m.

#### **Fly Control Issues--Don't Get Pinkeye!**

Jeff Lakritz DVM

10:40-11:00 a.m.

#### **Working Capital--More money going out than coming in, what do I do?**

Dianne Shoemaker

11:00-11:20 a.m.

#### **Water Quality and Nutrient Management--Can we make more money and avoid regulation?**

Greg LaBarge

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Mike Estadt  
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Ben Brown  
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**COVID-19: What are the risks to my animals and to myself?**

Scott Kenney  
1:20-1:40 p.m.

**Micro Business Data Management**

Sid Dasgupta  
1:40-2:00 p.m.

**Farm neighbor laws: Can we all just get along?**

Peggy Hall  
2:00-2:20 p.m.

**Economics of Parasite Control and Drug Resistance**

Antoinette Marsh DVM  
2:20-2:40 p.m.

**Are you ready for the hearse to arrive?**

David Marrison  
2:40-3:00 p.m.

**Thursday, September 24, 2020**

**Keeping Horses Healthy: The old gray mare, she ain't what she used to be**

Eric Schroeder DVM  
10:00-10:20 a.m.

**Making Sense of the Modeling of Infectious Diseases**

Rebecca Garabed VMD  
10:20-10:40 a.m.

**Increasing Small Grains Profitability with Double Crops**

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10:40-11:00 a.m.

**COVID-19: Impacts on Workers and the Food Supply or Where's the beef? How COVID-19 is altering animal agriculture**

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1:20-1:40 p.m.

**Hay ewe, No hay-No way?**

Alejandro Relling  
1:40-2:00 p.m.

For more information about the Ask the Expert Sessions, contact David Marrison, OSU Extension Educator at [marrison.2@osu.edu](mailto:marrison.2@osu.edu)

***Silo Film Screening during FSR***

Free screenings of the film SILO will be offered as part of FSR 2020. This film is a great way to spur dialogue regarding farm safety for farm families, FFA members and 4-H members alike. To register for the screening, see the attached flyer.



Join OSU Ag Safety and Health for an at home screening of

## SILO the Film



**Register for a digital pass**

**Tuesday, September 22 @ 7pm EST, [HERE](#)**

**Wednesday, September 23 @ 7pm EST, [HERE](#)**

Panel discussion follows each evening, link provided with registration

Inspired by true events, SILO follows a harrowing day in an American farm town. Disaster strikes when teenager Cody Rose is entrapped in a 50-foot-tall grain bin. When the corn turns to quicksand, family, neighbors and first responders must put aside their differences to rescue Cody from drowning in the crop that has sustained their community for generations.





# The Gwynne Conservation Area Presentation Schedule

**September 22 – 24, 2020**

[fsr.osu.edu](https://fsr.osu.edu)

# Tuesday - September 22

Forages and Grazing Education		Wildlife and Aquatics Education		Woodland Education	
10:30	Grazing Management Plans - A Valuable Tool in Your Grazing Plan (Cody Hacker)	Attracting Wild Life to your Property (Brian Hackett)		Live Session: Tree of Heaven vs. Sumac: How to tell the Difference! (Tom DeHass)	
11:00	Improving Soil Health to Adapt to Climate Change (Jeff Hattey)	Invasive (and some not) Species Affecting Ponds: Why it Matters (Eugene Braig)		Cultivating Oyster Mushrooms (Erika Lyon)	
11:30		Snake ID (Brian Hackett)			
12:00	Meeting Animal Nutrient Requirements on Pasture (Martin Joyce)	Butterfly Habitat Creation and Monarch Release (Jenna Balaz & Rebecca Miller)		Things to Consider Before Selling your Timber (Dave Apsley and Bob Mulligan)	
12:30					
1:00	Live Session: Forages and Grazing Q&A with Industry Professionals				
1:30	Grazing Warm Season Graaaes / Soil Pasture Health (Bob Hendershot)	Benefits of Bats (Marne Titchenell)		Recreational Lease Hunting (Gabe Karnes)	
2:00		Attracting Beneficial Insects: Pollinators, Predator, Parasites (Curtis Young)			
2:30				Making the Cut - How to Prune with Pruning Saws and Hand Pruners (Amy Stone, Kathy Smith & Erik Draper)	

Go to [fsr.osu.edu](https://fsr.osu.edu) and click on 'Conservation'

(You must create a 'My Show Planner' account to access the presentations.)

# Wednesday - September 23

<u>Forages and Grazing Education</u>		<u>Wildlife and Aquatics</u>	<u>Woodland Education</u>
10:30	<b>Live Session:</b> Grazing/Soil Health ( <i>Dave Libben</i> )	Owls of Ohio ( <i>Marne Titchenell</i> )	Woodland Fungi ID ( <i>Curtis Young</i> )
11:00	Grazing Management Through the Eyes of the Animal ( <i>Mark Sulc</i> )	Quail and Pheasant Management and Prairie Walk ( <i>Mike Retterer</i> )	A Seasonal Guide to Woodland Management ( <i>Jason VanHouten</i> )
11:30	The Grasses You Ought To Be Grazing - Native Warm Season Grass ( <i>Jason Jones</i> )		Picking Paw Paw Patches - Managing Woodlands for Paw Paw Production ( <i>Matt Davies</i> )
12:00	Getting Involved with the Forage and Grassland Council ( <i>Gary Wilson</i> )	Importance of Pollinators to Agriculture ( <i>Emilee Hardesty</i> )	Can you Spot the Spot? Spotted Lanternfly Update ( <i>Amy Stone</i> )
12:30		Conserving Native Bee Populations for Pollination ( <i>Amanda Bennett</i> )	
1:00	Live Session: Wildlife Q&A with Industry Professionals		
1:30		An Extension Educator's Top 5 Pond Queries ( <i>Eugene Braig</i> )	Managing Small Forest Patches for Birds ( <i>Matthew Shumar</i> )
2:00			Forest Farming Wild-Simulated Ginseng ( <i>Tanner Filyaw</i> )
2:30			

Go to [fsr.osu.edu](https://fsr.osu.edu) and click on 'Conservation'

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# Thursday - September 24

<u>Forages and Grazing Education</u>		<u>Wildlife and Aquatics Education</u>	<u>Woodland Education</u>
10:30	Grazing Warm Season Annuals ( <i>Tim McDermott</i> )	<b>Live Session:</b> Attracting Birds to Your Yard ( <i>Marne Titchenell</i> )	The ABC's of Invasive Species ( <i>Amy Stone</i> )
11:00	Considering farmer conservation decision making across the year ( <i>Maggie Beetstra</i> )	Landscaping with Native Plants ( <i>Pam Bennett</i> )	Clues to Use for Tree ID ( <i>Kathy Smith</i> )
11:30	Getting the most out of winter feeding, Stockpiled Forage ( <i>Clint Finney</i> )		Chainsaw Maintenance, Sharpening and Safety Demo
12:00	Soil Organic Carbon: A Farmers Most Faithful Ally ( <i>Patricia Marie Cordero-Irizarry</i> )		Chainsaw Cutting Techniques Demonstration
12:30	Adapting to changing weather patterns in the eastern cornbelt ( <i>Robyn Wilson</i> )		
1:00	<b>Live Session: Woodland Q&amp;A with Industry Professionals</b>		

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# **Ask the Expert full schedule**

**Ohio State University Extension**

<https://fsr.osu.edu>

## TUESDAY, SEPTEMBER 22:

- **9:30-10:30**      **The Talk on Friday Avenue – Value Chains in Food and Agriculture**
- **10:40-11:00**      **Keeping Backyard Poultry Healthy – Tim McDermott DVM**
- **11:00-11:20**      **Crop Inputs & Margins: Challenges for this Year and Next – Barry Ward**
- **11:20-11:40**      **Farm Stress-Finding the Sunshine in the Storm – Sarah Noggle**
- **11:40-12:00**      **COVID-19: What are the risks to my animals and to myself? – Scott Kenney**
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- **12:20-12:40**      **How to Get \$4 Corn – Ben Brown**
- **12:40-1:00**      **Farm neighbor laws: Can we all just get along? – Peggy Hall**
- **1:00-1:20**      **Prospects for US Exports: Pandemic vs. the Phase 1 Agreement with China – Ian Sheldon**
- **1:20-1:40**      **Increasing Small Grains Profitability with Double Crops – Eric Richer**
- **1:40-2:00**      **Making Sense of the Modeling of Infectious Diseases – Rebecca Garabed VMD**
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- **2:20-2:40**      **Farm CFO: Doing More Than a Tax Return – Bruce Clevenger**
- **2:40-3:00**      **COVID-19: Impacts on Workers and the Food Supply or Where's the beef?  
How COVID-19 is altering animal agriculture. – Gustavo Schuenemann DVM**



## **WEDNESDAY, SEPTEMBER 23:**

- **10:00-10:20** Weather is Always on my Mind – Aaron Wilson
- **10:20-10:40** Farming through COVID – Chris Zoller & Dee Jepsen
- **10:40-11:00** Fly Control Issues--Don't Get Pinkeye! – Jeff Lakritz DVM
- **11:00-11:20** Working Capital- More money going out than coming in, what do I do? – Dianne Shoemaker
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- **2:20-2:40** Economics of Parasite Control and Drug Resistance – Antoinette Marsh
- **2:40-3:00** Are you ready for the hearse to arrive? – David Marrison

## THURSDAY, SEPTEMBER 24:

- **10:00-10:20** Keeping Horses Healthy: The old gray mare, she ain't what she used to be – Eric Schroeder DVM
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