

Marshall County, Ag Newsletter

Published by: Marshall County Extension Staff

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 At the South entrance of the county building is a drop-box, labeled **payment box**. Label whatever you are putting in it for the Extension office and you can drop things off **AFTER HOURS!**

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 Marshall County
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 Plymouth, IN 46563
 Cooperating with U.S. Department of Agriculture

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Ag Newsletter

Hello!

The new year is officially upon us!

The 2024 season will soon be fast approaching, if it hasn't already hit yet. Now is the time of year where the paperwork that is piled up gets done and things are fixed around the farm. If you find yourself in need of socialization from working on these projects..... There are a few opportunities to join programs here in Marshall county. On February 20th and 21st there is a Succession Planning program held by the Purdue Succession Planning team where you can gain more info on how to pass down the families farm. Then the first part of March, we are having a Preparing for Rural Emergencies program that is geared towards what to do when an emergency strikes on the farm. You can find more information on these programs in this newsletter. If neither of these strikes your fancy, don't be afraid to stop in and say hi!

Here is to wishing for a year of successes and to you and your families having a wonderful year ahead.

Kind Regards,

Brieanna Slonaker

Extension Educator, Ag & Natural Resources

Upcoming PARP Meetings

February 1- Elkhart County NWI Vegetable Register 219-465-3555 nikky@purdue.edu

Pumpkin Management; Controlling Weeds in High Tunnels; Best Practices for Soil Health in Vegetables; 2024 Worker Protection Regulatory Update

February 5—Fulton County PARP Register 260-563-0661 (ext. 1408)

Don't Get Tangled Up in Railroad Tracks and Utility Wires; New Sprayer Technologies; 2024 Pesticide Regulatory Update

February 8 – Elkhart County Winter PARP Register 574-533-0554 cvanpelt@purdue.edu

Growing Soybeans Considerations-Diseases in Area, Soil Health, Nutrition; 2024 Worker Protection Regulatory Update .

February 22 – ST Joe County Mint Growers PARP Register 574-772-9141 pwoolery@purdue.ed

Crop Diversification in Pest Pressures; Asiatic Garden Beetle Research; Weed Management in Mint; 2024 Worker Protection Regulatory Update

February 26– Lake County Winter Meeting PARP Register 219-465-3555 nikky@purdue.edu

Program: Preparing for Next Fall's Cover Crop; Don't Get Tangled in Power Lines or Railroad Crossings; 2024 Worker Protection Regulatory Update; Agency Updates

March 6– Miami County PARP Register 765-472-1921 schmi163@purdue.edu

Soil Biotics; Cover Crop Strategies; Phospholutions; 2024 Pesticide Regulatory Update

March 26– St Joseph County PARP Register 574-235-9605 everse@purdue.edu

Don't Get Tangled Up in Railroad Tracks and Utility Wires; Adjuvants and the power of the Spray Droplet; 2024 Pesticide Regulatory Update .

To view all upcoming PARP meetings in our area visit ppp.purdue.edu and click 'PARP Events'



Looking for more ANR resources?

Local event information, PARP events, CCH events, webinar series offered by Purdue and digital resources can be found on our Facebook page and Marshall County extension website and through our Smore digital publication. Add, subscribe, and follow us to stay up to date!



www.facebook.com/marshallanr



<https://www.smore.com/u/purdueboilermaker>



<https://extension.purdue.edu/Marshall>

February

20-21– Keeping the Business in the Family @ Ext. Office 9AM

March

5,7,12,14— Emergency Preparedness @ Ext. Office 5:30 PM

29– Office Closed

May

7– Office Closed

27— Office Closed

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Diversified Farming and Food Systems

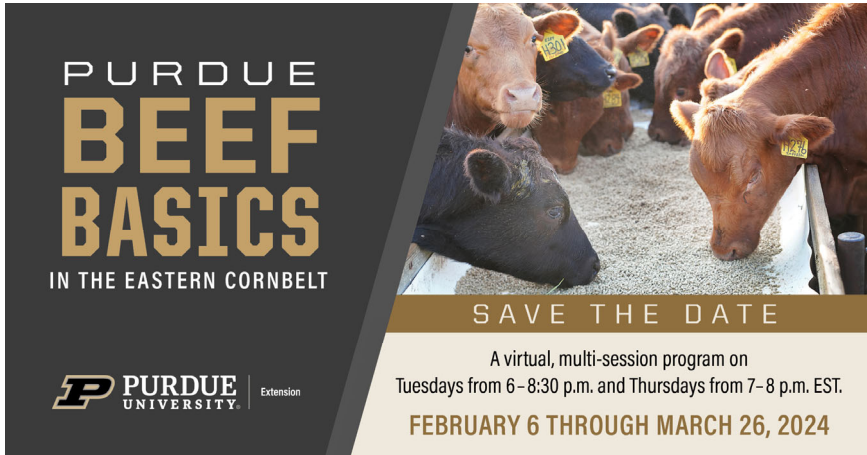
PURDUE UNIVERSITY Extension

2024

INDIANA SMALL FARM CONFERENCE

February 29 - March 1

Hendricks County Fairgrounds - Danville, Indiana



**PURDUE
BEEF
BASICS**
IN THE EASTERN CORNBELT

SAVE THE DATE

A virtual, multi-session program on
Tuesdays from 6–8:30 p.m. and Thursdays from 7–8 p.m. EST.
FEBRUARY 6 THROUGH MARCH 26, 2024

PURDUE UNIVERSITY Extension

The Purdue Beef Team is excited to share the 2024 Purdue Beef Basics in the Eastern Corn Belt Program! This multi-session program is aimed at producers with less than 5 years of experience or those interested in exploring the beef industry, however, anyone is welcome to attend. Extension educators, specialists, and industry experts will facilitate and lead program sessions. Among the topics covered are an overview of beef cattle, behavior, and facilities, health, genetic selection, forages, nutrition, and reproduction.

The program begins February 6, 2024, with sessions happening every Tuesday (from 6:00 – 8:30 pm EST) and Thursday (from 7:00 – 8:00 pm EST) until March 26, 2024. The cost to participate is \$50 and the deadline to register is January 24, 2024.

Attention teachers, we have 16 Professional Growth Plan (PGP's) points available for completing this program.

Register Today: <https://cvent.me/EBNPNV>

For any questions, please email
allen484@purdue.edu or jmrichards@purdue.edu



PURDUE UNIVERSITY Extension - Community Development

Experience Incubator
Virtual Workshop Series

**EXPLORE STARTING
A BUSINESS AT AGE 50+**

Purdue Extension will teach a series of interactive workshops to help individuals in the 50+ age range discover their inner entrepreneur and the initial steps needed to launch a business.

The workshops explore entrepreneurial thinking and application and include the following topics:

1. Introduction to Entrepreneurship
2. What is Entrepreneurial Thinking and Acting?
3. Decoding Your Entrepreneurial History
4. Anatomy of an Idea
5. Building Your Brain Trust
6. Branding that Brings Results
7. Finance: Common Sense and Cents
8. Entrepreneurship is a Verb, not a Business Plan – Just Start!

In addition to the workshops, you may choose to receive coaching from the Small Business Development Center after completion to move forward with your business idea.

Workshops are held on Zoom from 4-5 pm EST on Tuesday and Thursday afternoons in February: 6, 8, 13, 15, 20, 22, 27, 29. **Register by January 30, 2024**, at <https://cvent.me/3wba1l>. The cost of the workshop series is \$99 and is payable when you register.

Questions? Contact Kristi Whitacre at:



PURDUE EXTENSION MONTHLY *Hot Topics*

12:00 - 1:00 PM EST



SEASON 3

- 17 JAN**
Ants
 Tabby Flinn,
 ANR Extension Educator
- 21 FEB**
Weather
 Austin Pearson,
 Climatologist, Midwestern
 Regional Climate Center
- 20 MAR**
Purdue on the Farm
 Scott Gabbard,
 ANR Extension Educator
- 17 APR**
Eat Midwest Fish
 Amy Shambach,
 Aquaculture Marketing
 Outreach Associate
- 15 MAY**
Purdue Institute for Family Business
 Dr. Maria Marshall
 Director, North Central Regional
 Center for Rural Development
- 19 JUN**
Turf Problems & Insects
 Dr. Lee Miller &
 Dr. Doug Richmond

Each month join a Purdue Extension Professional through this free, live, virtual program as they discuss their research and hot topics in their area of expertise.

REGISTER NOW!

<https://bit.ly/HotTopics2024>



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February 14-17, 2024

National Farm Machinery Show

The National Farm Machinery Show offers the most complete selection of cutting-edge agricultural products, equipment and services available in the farming industry. Business professionals from around the world gain knowledge and hands-on access to various technological advancements needed for the upcoming farming season during the four-day show.

Hours & Location

Dates: Wednesday, February 14 through Saturday, February 17, 2024

Show Hours (ET):

9:00 a.m. – 5:00 p.m. daily – Show Floor
 9:00 a.m. – 6:00 p.m. daily – Gift & Craft Market

Pit Hours (ET)

Monday - Wednesday: 8:30 a.m. – 5:00 p.m.
 Saturday: 8:30 a.m. – 11:00 a.m.

Location: Kentucky Exposition Center, 937 Phillips Lane, Louisville, KY 40209



Early-Planted Corn & Cold Weather

By: Bob Neilsen

Newly Planted Corn

One of the risks that newly planted corn faces is that of **imbibitional chilling injury** caused by exposure of the kernels to cold soil temperatures during the initial 24 to 36 hours after seeding, when the kernels imbibe water and begin the germination process. In response to the imbibition of water, kernels naturally swell or expand. If the cell tissues of the kernel are too cold, they become less elastic and may rupture during the swelling process. Symptoms of imbibitional chilling injury include swollen kernels that fail to germinate or arrested growth of the radicle root and/or coleoptile following the start of germination. **Alternatively, chilling injury that occurs during the emergence process** can cause stunting or death of the seminal root system, deformed elongation of the mesocotyl (the so-called "corkscrew" symptom) and either delayed emergence or complete failure of emergence (i.e., leafing out underground). The net result of either type of chilling injury to corn is a combination of stunted plant development and outright loss of stand.

It is not clear how low soil temperatures need to be for imbibitional chilling or subsequent chilling injury to occur. Some sources simply infer temperatures less than 50F (10C). Others suggest the threshold soil temperature is 41F (5C). Daily minimum soil temperatures at the 4-inch depth (typical depth for National Weather Service measurements) have certainly dropped into the mid- to high-40's (F) in recent days, with some growers reporting temperatures as low as 40F at seed depth.

Newly Emerged Corn

Damage from **exposure of above-ground plant tissue to frost** can range from minor leaf injury to complete death of all exposed leaf tissue. That's the bad news. The good news is that the all-important **growing point** region of a young corn plant remains below the soil surface, safe from exposure to frost, until the **V4 to V6 stages** of development. That means that the above-ground plant tissue you see in

PURDUE INSTITUTE FOR FAMILY BUSINESS

KEEPING THE
BUSINESS IN
THE FAMILY:

A ROADMAP TO
SUCCESSFUL
SUCCESSION



DATE: Feb 20 and 21, 2024

TIME: 9 am to 12 pm ET

LOCATION: Marshall

County Extension Office

112 W Jefferson St. Rm 304,
Plymouth, IN 46563

The Purdue Institute for Family Business (PIFB) has created a program, Keeping the Business in the Family: A Roadmap to Successful Succession. This program takes a holistic approach to succession in farm and family businesses; delving into strategic management, relationships, conflict management, and managing stress.

The program will help participants create a timeline and roadmap for the ownership and management transfer process. The training will cover three modules with a total of six hours of educational materials.



MODULE 1.

- A. First Steps in Succession Planning
- B. Family Functioning
- C. Strategic Management in the Family Business

MODULE 2.

- A. Dealing with Conflict
- B. Weathering the Storm in Agriculture

MODULE 3.

- A. Visioning Framework
- B. Culture of Collaboration
- C. Roadmap to Succession

FOR MORE INFORMATION VISIT:

<http://tinyurl.com/2024Succession>



CONFERENCE

Feb 14, 2024

 Crowne Plaza Indianapolis

Register by 2/6
(no on site registration)

www.midwestcovercrops.org/meetings/



Special thanks to our lunch sponsor

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by Bayer

Additional sponsorships still available

FEATURED SPEAKERS



Dr. Rob Myers

Director,
Center for Regenerative Ag,
University of Missouri



Barry Fisher

Fisher Soil Health

FARMER PANEL

BREAKOUT SESSIONS



VISIT WITH VENDORS AND SPONSORS

Join us also for the
MCCC ANNUAL MEETING
February 13

2-day registration includes...

Networking reception
Student poster competition
Research updates from across
the Midwest

fields younger than about V4 is composed primarily of leaves and rolled up leaf tissue in the whorl, but does not include stalk tissue or the growing point. As long as temperatures are not lethally cold, "simple" frost injury usually does not literally kill such young corn plants. Damaged plants will begin to show recovery from the whorl within 5 to 7 days, depending on temperatures following the frost event.

Disclaimer: Repeated frost events that re-inflict damage to recovering corn plants can cause permanent stunting or death.

When folks worry about the effects of cold weather on corn, they often fail to distinguish between simple frost events and lethal cold temperatures. Frost can occur at temperatures easily up to the high 30's F, but **lethal cold temperatures** for corn are generally thought to be 28F (-2C) or colder. Such cold temperatures may "penetrate" the upper inch of soil near the growing point region of corn seedlings, especially if soils are excessively dry and free from surface residue.

In situations where temperatures have simply been sub-optimal (i.e., less than 50F), but without frost, the direct effect on the corn crop is simply slow development. Once planted, it requires 115-120 GDD (Fahrenheit) for the crop to emerge. Once emerged, it requires about 80-85 GDD to progress from one leaf stage to another up to about leaf stage V10 (10 visible leaf collars). After V10, leaf stage progresses at about 50-55 GDD per stage. The main risk associated with slow plant development is that many protective seed treatments (fungicide, insecticide) dissipate after about 2 to 3 weeks, leaving slow-developing young plants vulnerable to soil-borne diseases and insects, and thus increasing the risk for additional stunted plants or stand loss.

To put that into perspective for the 2023 planting season to date, total accumulation of soil-temperature based GDD (F) between 16-Apr-2023 and 2-May-2023 ranges from about 50 GDD in the northern parts of the state to about 70 GDD in the southern parts of the state. That explains why the May 2nd USDA-NASS report estimated only 1% of Indiana's corn crop was emerged even though 20% of the state's corn crop was estimated to have been planted.



Emergency Preparedness for Rural Families is an upcoming four-part extension workshop for women in agriculture will focus on emergency preparedness for rural families. The program will be held at numerous locations across Nebraska and Indiana and virtually. The series will focus on farm and ranch emergency management, first aid, fire protection, and hazardous materials.

Dates: March 5, 7, 12, & 14

Time: 5:30-8:30 pm Eastern

Cost In-person Sessions: \$50 per person by Feb. 20 (after that \$60)

Cost Virtual Sessions: \$75 per person by Feb. 20 (after that \$80)

In-person Sites Include:

Angola Steuben — County Community Building, 317 S. Wayne St

Bloomfield — Community Event Center at the Greene County Fairgrounds, 4503 W. State Road 54

Columbia City — Purdue Extension - Whitley County, 524 Branch Court

Columbus — Purdue Extension- Bartholomew County, 783 S. Marr Rd

Greentown — Howard County 4-H Fairgrounds - Lead Center, 610 E. Payton St

Plymouth — Marshall County Building - Extension Office, 112 W. Jefferson St.

Portland — Portland Fire Department, 1616 N. Franklin Street

Princeton — Gibson County Fairgrounds, 709 N. Embree

Valparaiso — MAAC Center, 4203 Montdale Park Drive

Veedersburg — Fountain County Fairgrounds, 476 W. US HWY 136

Winchester - Randolph County Fairgrounds, 1885 S. US HWY 2

The program is a collaboration between extension women in Agriculture programs at Purdue University and the University of Nebraska-Lincoln.

According to the U.S. Bureau of Labor Statistics, agricultural occupations have high rates of work-related injuries and deaths. While not all emergencies result in bodily injury or death, they also may cost rural families in other ways.

“Women play a critical role in ensuring the safety of their homes and rural communities,” said Jessica Groskopf, director of the Nebraska Women in Agriculture program. “In many farm and ranch families, safety is an important topic, but it sometimes gets overlooked because it does not directly impact profitability.”

Each state’s workshop sites will be hosted by local extension personnel. Keynote speakers will be simulcast to each location, and each site will provide additional speakers and hands-on activities. Dinner will be included.

Groskopf said the program’s structure is intended to strengthen networks of women in rural areas, which can provide opportunities for building trust and sharing information. “Connections are so important to rural women,” she said. “We have seen the benefits that come from knowing your peers, having a place to share difficulties, and mitigate the isolation that so many of us in agriculture often feel.”

The workshops seek to help participants initiate preventative practices, set up a plan to deal with emergencies before they occur and be more comfortable reacting to emergency situations.

This project was supported by a grant from NCRCRD through funding from USDA NIFA Award #2022-51150-38141.

For questions or concerns, please contact Jenna Nees at smith535@purdue.edu or 765-653-8411.

To Register visit:

<http://tinyurl.com/2024EmergencyPrep>