

PURDUE EXTENSION

LAWRENCE COUNTY AGRICULTURE & NATURAL RESOURCES NEWSLETTER

ANR News:

CHANGES to borrowing Soil and Hay Probes from Ext. Office

Effective immediately, anyone who wishes to borrow a soil probe or hay probe from our Extension Office can still do so but the deposit amount has changed to **\$40 CASH** so please be aware of this and prepared when you come to our office to sign one out. We appreciate your understanding with this policy change. Thank you.

Indiana Pesticide Regulation Changes

The Office of the Indiana State Chemist (OISC) and the Indiana Pesticide Review Board have approved regulatory changes effective January 1, 2023. Changes will be addressed at all 2023 Private Applicator Recertification Programs (PARP). Changes focus on restricted use pesticide application by certified applicators, recordkeeping, and restructuring of penalties/fines. Additional info can be found: <https://oisc.purdue.edu/pesticide/index.html> under “News.”

Corny News Network by Bob Nielsen

Read the most recent releases of articles over [Ear Size Determination in Corn](#) and [Corn Responses to Drought Stress](#) (click on article title to be taken to web link).

Kentucky Pest News Resource

Read the most recent releases of information from the Kentucky Pest News by clicking [here](#).

When Forages are in Short Supply

Management can help reduce the potential negative effect of dry weather on pasture. The publication is targeted toward beef producers, but the agronomic principles will be helpful to all livestock owners.

The following is for your reference and distribution. Following the guidelines in the publication will make a difference to those that adopt their use.

ID-528 [When Forages are in Short Supply Because of Drought](#)

Indiana State Fair 2023—July 28– August 20

Lots of fun opportunities to learn and explore at the annual state fair in Indianapolis. Check out the daily schedule and upcoming events here: <https://www.indianastatefair.com/events/2023/indiana-state-fair>.

ANR News in-brief items for your consideration... (cont.)

Poultry Biosecurity Education

The following information is from the USDA's Animal and Plant Health Inspection Service (APHIS) and the Defend the Flock: The current outbreak of highly pathogenic avian influenza (HPAI) has resulted in the loss of millions of poultry nationwide. People who raise chickens as a hobby or on small farms are especially vulnerable, as they often lack access to the expert veterinary care and training available to large commercial poultry growers.

To support poultry owners, USDA APHIS created the Defend the Flock public education campaign: a collection of free online resources, many in multiple languages, that educate backyard poultry owners in simple practices that have been proven to help prevent disease. See the campaign at [bit.ly/defend the flock](https://bit.ly/defendtheflock).

USDA APHIS asks for your help in distributing these materials to your customers so that they can help poultry owners keep their birds safe.

This information needs to reach all poultry growers. Biosecurity is the key to keeping our nation's poultry healthy and a responsibility that we all share. Working together, we can defend all flocks from avian influenza and other infectious diseases.

You are the Best Protection Your Birds Have

Follow these **6 Simple Steps** to Defend Your Flock from Poultry Disease

- Step 1: Separate for Safety**
 - Separate your poultry from the rest of your property.
 - Use only one entry and exit.
- Step 2: Keep it Clean**
 - Clean regularly.
 - Wear dedicated clothes and shoes when tending to your flock and keep them near your poultry enclosure.
- Step 3: Don't Haul Disease**
 - Clean equipment and vehicles with soap and water before and after they are near your flock.
 - Spray vehicle tires and under car where germs are most likely.
- Step 4: Don't Share Equipment**
 - Don't share tools, poultry supplies, or other equipment with other flock owners.
 - Clean and disinfect any shared items before they reach your property.
- Step 5: Keep Flocks Away from Open Water**
 - Wild birds carry disease: keep flocks away from ponds and places where they gather.
 - Don't walk or drive in areas where wild birds may have been.
- Step 6: Report Sick Birds, Know the warning signs**
 - Lower egg production.
 - Soft-shelled or misshapen eggs.
 - Runny nose, sneezing, trouble breathing.

Make these 6 Simple Steps your every day, every time routine.

USDA Report any signs of illness or unexplained deaths to your veterinarian, animal health official, or USDA at (866) 536-7593.
Visit: bit.ly/DefendtheFlock-ResourceCenter for free resources in several languages.

Defending our flocks is a responsibility we all share. Let's defend our flocks from poultry disease – together!

ANR News in-brief items for your consideration... (cont.)**August Horticulture Calendar****Lawns, Tree Fruits, Landscape Plants,
and Woody Ornamentals****August**

- Check trees and shrubs that have been planted in recent years for girdling damage by guy wires, burlap or ropes.
- Don't fertilize woody plants now. It stimulates late growth that will not have time to harden off properly before winter.
- Hand-prune and destroy bagworms, fall webworms and tent caterpillars.
- Pears are best ripened off the tree, so do not wait for the fruit to turn yellowish on the tree. Harvest pears when color of fruit changes – usually from a dark green to a lighter green – and when the fruit is easily twisted and removed from the spur.
- Prune out and destroy the raspberry and blackberry canes that bore fruits this year. They will not produce fruit again next year, but they may harbor insect and disease organisms.
- If weather turns dry, keep newly established plants well watered. New plants should receive 1 to 1.5 inches of water every week to 10 days.
- Begin seeding new lawns or bare spots in established lawns in mid-August through mid-September.

Indoor Plants and Activities**August**

- Take cuttings from plants such as impatiens, coleus, geraniums and wax begonias to overwinter indoors. Root the cuttings in media such as moist vermiculite, perlite, peat moss or potting soil, rather than water.
- Order spring-flowering bulbs for fall planting.
- Cut flowers from the garden to bring a little color indoors or dry for everlasting arrangements.

Flowers, Vegetables and Small Fruits**August**

- Keep the garden well watered during dry weather and free of weeds, insects and disease.
- Complete fall garden planting by direct-seeding carrots, beets, kohlrabi, kale and snap beans early this month. Lettuce, spinach, radishes and green onions can be planted later in August and early September. Don't forget to thin seedlings to appropriate spacing as needed.
- Harvest onions after the tops yellow and fall, then cure them in a warm, dry, well-ventilated area. The necks should be free of moisture when fully cured in about a week's time.
- Harvest potatoes after the tops yellow and die. Potatoes also need to be cured before storage.
- Pick beans, tomatoes, peppers and squash often to encourage further production.
- Harvest watermelon when several factors indicate ripeness – the underside ground spot turns from whitish to creamy yellow; the tendril closest to the melon turns brown and shrivels; the rind loses its gloss and appears dull; and the melon produces a dull thud, rather than a ringing sound when thumped.
- Harvest sweet corn when kernels are plump and ooze a milky juice when punctured with your fingernail. If the liquid is watery, you're too early; if the kernels are doughy, you're too late.
- Keep faded flowers pinched off bedding plants to promote further flowering and improve plant appearance.
- Spade or till soil for fall bulb planting, and add a moderate amount of fertilizer.

Prioritizing Water in the Landscape

By: Ward Upham, Horticulture Specialist, Kansas State University

During periods of drought, it may be necessary to prioritize which plants will be first in line to receive supplemental water due to time and water restrictions. As with many decisions, cost plays a major role in determining where to begin watering.

Start with the large, established trees. These are the most difficult and expensive to replace if they don't survive. They also take the longest to become established. While they may not require supplemental water during a short drought period, if it becomes prolonged established trees can still suffer. Next, care for the young trees which are still developing their root systems.

Take care of shrubs next, followed by perennials, lawn and finally, annuals. This order will direct your attention to the plants that have had the most invested in them saving you time and money if you must replace plants that don't survive.



Watering Newly Planted Trees and Shrubs

By: Ward Upham, Horticulture Specialist, Kansas State University

Young trees and shrubs have not established the root system necessary to survive extreme heat and dry spells without supplemental water. After planting, it is essential to keep the root ball area moist for several weeks, but even a couple years later it may be necessary to periodically apply water to the area.



Give newly planted trees 10 gallons of water weekly. Apply the water slowly so it can sink deep into the root zone and promote new growth. Build a reservoir, about three to four-inches tall around the tree to keep the water in the desired area. Alternatively, drill a 1/8-inch hole in a plastic 5-gallon bucket. Place the bucket beneath the tree and fill with water. After it has drained fill it a second time. When it has emptied, the tree will have received ten gallons. There are also bags available commercially that serve a similar purpose. They can be secured to the tree and filled with water which then slowly enters the soil. Mulch is recommended to help retain moisture, moderate soil temperature and prevent damage to the trunk from lawn mowers and other tools.

Green Beans Producing Flowers but not Beans

Though relatively easy to grow, green beans may not produce efficiently when adequate growing conditions are not met.

Temperature is a key factor that affects bean production. High (above 85 degrees F) or low (below 70 degrees F) can cause plants to create flowers but no beans.

Periods of dryness between watering can also inhibit bean development. Hot, dry winds can exacerbate this problem.

The best way to ensure a healthy bean crop is proper crop management.

Use mulch to regulate soil temperature and retain moisture. Plant a wind-break crop such as corn to shield green bean plants. Harvest beans regularly to encourage the plants to continue producing. If beans are left on the plant beyond their peak harvest time

they will use energy to develop seed rather than create new beans.



Watering Fruit Plants During the Summer

Monitoring soil moisture of fruit crops is important to preserve the quality of the harvest. Allowing fruit crops to be under heat or drought stress during fruit development restricts cell division. This directly affects the size of the mature fruit even if additional water is added later. Drought stress can also lead to wilting and yellowing leaves as well as leaf and fruit drop. Next year's crop could be affected too as buds may fail to develop.

The takeaway message is to monitor the soil at the rootzone to ensure proper moisture levels. This can be done by pushing a probe into the soil. A wooden dowel, rebar or even a screwdriver can work for this task. Try to insert the probe at least 8 to 12 inches. Dry soil will be very difficult to penetrate indicating water should be applied.

Add water slowly to the rootzone using a sprinkler, soaker hose, drip irrigation or other method. The amount of water necessary will vary depending on plant size, but use the soil probe as your indicator. When the probe can reach 12-inches into the soil, the moisture level should be adequate.

Monitor fruit crops weekly during hot, dry weather. Newly planted fruit crops and strawberries, with shallow root systems, will need to be checked at least twice a week for soil moisture.



Should I Water My Lawn?

By: Ward Upham, Horticulture Specialist, Kansas State University

We have been receiving questions recently on whether to water lawns, especially the cool-season lawns tall fescue and Kentucky bluegrass. Tall fescue and Kentucky bluegrass can go drought dormant for 6 to 8 weeks without harm. Therefore, some homeowners allow their lawn to go dormant during summers such as this. However, when the rains return, the grass will be thin and weeds may become a problem. The weeds can be controlled but that adds an additional expense. Also, if we reach that 6-week period, the grass needs to be given 1/4" of water a week to keep the crown hydrated so the turf doesn't die.

If your lawn has been dormant for a while and are wondering if the turf is still alive, pull up an individual plant and separate the leaves from the crown. The crown is the area between the leaves and the roots. If it is still hard and not papery and dry, the plant is still alive.

If you want to keep the grass going through the summer, wait until you see spots in the lawn turn a purplish hue and then water well so the soil is moist about 6 inches deep. Continue to do this until the rains return. Of course, watering more won't hurt except for your water bill.



Interested in more horticulturally related articles?

Please visit this link to read and learn from timely horticulture articles:

<https://hnr.k-state.edu/extension/horticulture-resource-center/horticulture-newsletter/>

ANR News in-brief items for your consideration... (cont.)

FARMERS, KEEP IT GROWING ALL YEAR LONG

- Learn from farmers who use "season extension" to harvest more food in spring, fall, and winter.
- Visit their farms to see how they're using low tunnels, high tunnels, and caterpillar tunnels to produce more - and earn more money - throughout the year.
- Connect with other farmers and learn together.



Free 7-part workshop series

We'll cover

- What you can grow for harvest in the "shoulder" season (November-March)
- How season extension can increase your income, even out your cash flow, and build your business
- Challenges and things to consider before building
- What infrastructure and costs are involved

We start in August - RSVP Today

Sign up (it's free!) at www.indianafarming.org/events or by scanning this QR code.

Attend at least 5 workshops and you'll be entered to win prizes from High Mowing Seeds, Nifty Hoops, and others.



A combo of farm tours and virtual workshops in southeast IN

Farm Tour Sites and Topics

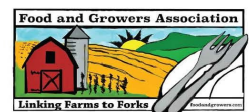
- Soil Prep and Fertility: Splinter Ridge Farm (Madison, IN) + Urban Soil Health
- Infrastructure options + Choosing your crops: Lobenstein Farm (St. Leon, IN) + Natural Resources Conservation Service
- Tools: Wild Pansy Farm (Crothersville, IN)

Virtual Presentation Topics

- Making a planting plan + succession timing (High Mowing Seeds)
- Airflow, managing moisture, etc (Nifty Hoops)
- Daily management (Unvarnished Farm)
- Finding profit (Partners IN Food and Farming)
- Finding buyers (Food and Growers Association)



Extension



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ANR News in-brief items for your consideration... (cont.)



Extension - Forestry
and Natural Resources

Prescribed Grazing

August 2, 2023
6:30-9:00pm EST
\$10 registration fee

Learn how
prescribed grazing
can be a
useful tool in forest
management.



Learn:

- History and background of prescribed grazing
- What prescribed grazing is
- Prescribed grazing as a tool to control invasive brush
- Impacts on native vegetation
- Necessary equipment
- Costs associated with prescribed grazing
- Caring for goats in the wild
- Incorporating prescribed grazing into an invasive species management program
- Herd for hire opportunities

Contact to RSVP:

Veronica Helming
812-482-1171 ext. 3
duboisswcd@gmail.com
1486 Executive Blvd Suite A
Jasper, IN 47546

Make checks payable to
"Dubois SWCD"

Registration deadline: July 28, 2023

Dress for a walk in the woods!

Refreshments will be provided.

Location:

Southern Indiana Purdue
Agriculture Center
11371 Purdue Farm Rd
Dubois, IN 47527

In cooperation with:



ANR News in-brief items for your consideration... (cont.)

2023 OISC Clean Sweep Pesticide Disposal Information Form

- WHAT:** An OISC Clean Sweep Pesticide Disposal Program designed to collect and dispose of suspended, canceled, banned, unusable, opened, unopened or just unwanted pesticides (herbicides, insecticides, rodenticides, fungicides, miticides, etc.) is being sponsored by the Office of Indiana State Chemist (OISC). This disposal service is free of charge up to 250 pounds per participant. Over 250 pounds there will be a \$2.00 per pound charge. This is a great opportunity for you to legally dispose of unwanted products at little or no cost.
- WHO:** All public and private schools, golf courses, nurseries, farmers, ag dealers, public, cities, towns, municipalities and county units of government or others receiving this notice are eligible to participate.
- WHEN:** 9:00 am to 3:00 pm Local Time
- WHERE:**
- August 15, 2023:** Wayne County Fairgrounds
861 N. Salisbury Rd. Richmond, Indiana 47374
 - August 16, 2023:** Jackson County Fairgrounds
476 E. County Rd. 100 S. Brownstown, Indiana 47220
 - August 17, 2023:** Elkhart County Solid Waste
59530 County Rd. 7 Elkhart, Indiana 46517
 - August 22, 2023:** Posey County Co-Op (Gibson County)
235 State Rd. 68 Haubstadt, Indiana 47639
 - August 23, 2023:** Newton County Highway Department
3640 S. 275 W. Morocco, Indiana 47963
 - August 24, 2023:** Hendricks County Fairgrounds
1900 E. Main St. Danville, Indiana 46122
- HOW:** Complete the enclosed Clean Sweep Pesticide Disposal Participant Form to the best of your ability. Mail, e-mail cleansweep@groups.purdue.edu or fax the completed form to Nathan Davis at 765-494-4331 no later than Wed., August 9, 2023. Questions may be directed to Nathan at 765-494-7108. Then bring your leak free and safe to transport containers to the collection site. DO NOT mix materials.

*****Empty pesticide containers will not be accepted, please follow label directions for proper disposal of empty pesticide containers*****

***NOTE:** OISC reserves the right to cancel this Pesticide Clean Sweep Project if there is not adequate demand. Participants submitting the enclosed planning form by August 9, 2023 will be contacted immediately if cancellation is necessary.

ANR News in-brief items for your consideration... (cont.)

2023 OISC Clean Sweep Pesticide Disposal Participant Form

I have the following pesticides (herbicides, insecticides, rodenticides, fungicides, miticides, etc.) to bring to the OISC Clean Sweep Pesticide Disposal Program. I understand that there will be no charge for disposal of up to 250 pounds of pesticides per participant.

Contact Name _____ Contact Phone # _____

Business Name _____ Branch _____
(If Applicable) (Add Multiple Branches on Back)

Please indicate at which location you will be participating.

- | | |
|---|---|
| <input type="checkbox"/> Wayne County, IN – August 15 | <input type="checkbox"/> Gibson County, IN – August 22 |
| <input type="checkbox"/> Jackson County, IN – August 16 | <input type="checkbox"/> Newton County, IN – August 23 |
| <input type="checkbox"/> Elkhart County, IN – August 17 | <input type="checkbox"/> Hendricks County, IN - August 24 |

*****Empty pesticide containers will not be accepted, please follow label directions for proper disposal of empty pesticide containers*****

*****Please advise below if bringing container sizes 55 gallons or above (Drum, Mini Bulk), bulk containers not documented on form will not be accepted*****

List of pesticide products to be disposed:

1. Trade Name _____

Check One: ☐ Solid _____ Pounds ☐ Liquid _____ Gallons ☐ Aerosol

Drum or Mini Bulk? ☐ Drum (# of Drums) _____ ☐ Mini Bulk (# of Mini Bulks) _____

2. Trade Name _____

Check One: ☐ Solid _____ Pounds ☐ Liquid _____ Gallons ☐ Aerosol

Drum or Mini Bulk? ☐ Drum (# of Drums) _____ ☐ Mini Bulk (# of Mini Bulks) _____

3. Trade Name _____

Check One: ☐ Solid _____ Pounds ☐ Liquid _____ Gallons ☐ Aerosol

Drum or Mini Bulk? ☐ Drum (# of Drums) _____ ☐ Mini Bulk (# of Mini Bulks) _____

RETURN BY August 9, 2023 to Nathan Davis, at cleansweep@groups.purdue.edu OR 765-494-4331 (fax). Questions may be directed to Nathan at 765-494-7108. Additional pesticide products to be disposed of may be listed on the back of this form or a separate sheet

Email completed form

ANR News in-brief items for your consideration... (cont.)

Bedford Outdoors Series - August, 2023

Bikes and Biking 101

Date: Tuesday, August 22

Time: 6:00 pm

Speakers: Tad Armstrong,
USDA Forest Service; joined
by a representative of Brown
County Chapter, Hoosier
Mountain Bike Association

Location: Otis Park Bath
House, 607 Tunnelton Road,
Bedford, IN

Facebook Livestream:
@hoosiernf

Deadline to RSVP: Monday,
8/21

RSVP: Bedford Parks Dept. ,
Autumn Ray or Gary Dorsett

Phone: 812-275-5692
gdorsett@bedford.in.us

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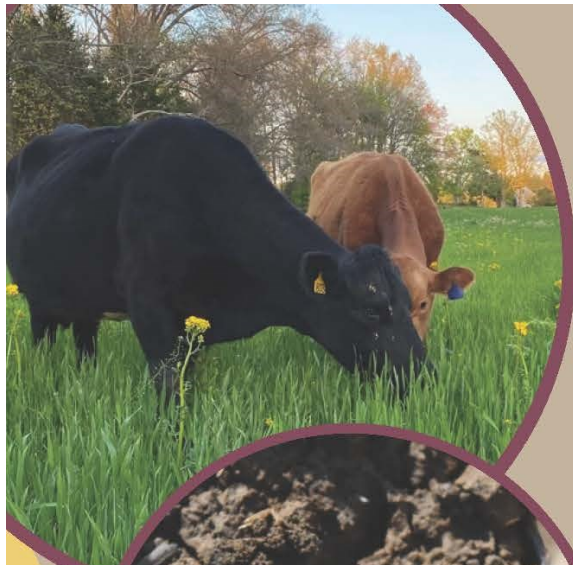
Join us to find out about the different types of bicycles, how to do basic bike maintenance and what tools are good to have on hand.



We'll also provide information on where you can ride in the Hoosier National Forest and throughout southern Indiana.



ANR News in-brief items for your consideration... (cont.)



JOIN US FOR **SOIL HEALTH & GRAZING WORKSHOP**

August 25, 2023

9am-Noon

Lunch Included

LOCATION:

**1160 Georgia Road
Mitchell, IN 47446**

**RSVP BY AUGUST 17
CALL SWCD:
812-279-8117 ext. 3**

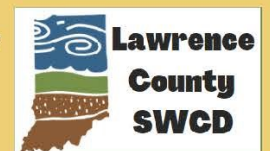
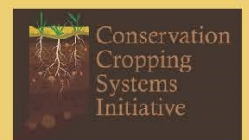
On-farm demonstrations of:

- **cover crop benefits on soil health**
- **soil health presentations, including soil pit**
- **rotational grazing with cattle on cover crops**
- **cover crop options and in-field plantings**

**Speakers Include: Amanda Kautz, NRCS
Robert Zupancic, NRCS
Pete Isom, Landowner**

If you need an accommodation to participate in this activity or event, please contact the SWCD at 812-279-8117 ext.3 at least 10 days prior to scheduled event.

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ANR News in-brief items for your consideration... (cont.)

LAWRENCE COUNTY
CATTLEMEN'S ASSOCIATION

Farm Tour & Bonfire

HOSTED BY:

Spring Creek Cattle
Owners: Stan & Ann Armstrong

Join Us!!

Saturday, August 26th

4 pm

Tour of the Farm followed by a bonfire.
Come!! Bring your family, roast a hot dog &
marshmallows & enjoy company with fellow
producers!! Bring a chair, too!

Location: 3248 State Road 54W in Springville

**Please RSVP to the Purdue Extension Office
at 812-275-4623 by Monday, August 21st**

ANR News in-brief items for your consideration... (cont.)**Mental Health FIRST AID**

from NATIONAL COUNCIL FOR MENTAL WELLBEING

**MENTAL HEALTH FIRST AID
FOR MILITARY, VETERANS,
AND THEIR FAMILIES**

So many people are out there wishing for something better, hoping that help will show up. That's what Mental Health First Aid is — it is help to get people connected to care and ultimately to get them to a better place."

— **Tousha Paxton-Barnes,**
U.S. Army Veteran

WHY MENTAL HEALTH FIRST AID?

Mental Health First Aid for Military, Veterans, and their Families is an evidence-based and early intervention training program developed for adults to learn how to assist and support members of their community who may be experiencing a mental health or substance use challenge.

This training specifically addresses the relevance of mental health to military culture, information on risk factors such as mental and physical trauma faced by many service members and their families, how to break down stigma and how to reach out to those who suffer in silence and are reluctant to seek help.

Nearly
1 IN 4*
active duty members
showed signs of a
mental health
condition.

The suicide rate
for veterans is
**57%
GREATER***
than non-veterans.

88%*
of veterans' caregivers
report increased stress
or anxiety.

*the original research for the displayed statistic is linked


REGISTER TODAY!**Delivery Format:**

In-person
No cost to attend. Training sponsored by AgrAbility program.

Date and Time:

August 28, 2023 8:00am-5:00pm

Location:

Hendricks County Fairgrounds 1900 E. Main Street Danville, IN 

Where to Register:

Please register by contacting one of us by e-mail.

The course will teach you how to
apply the MHFA Action Plan (**ALGEE**):

- **Assess** for risk of suicide or harm.
- **Listen** nonjudgmentally.
- **Give** reassurance and information.
- **Encourage** appropriate professional help.
- **Encourage** self-help and other support strategies.

For additional information, please contact: Ed Sheldon at ejsheldo@purdue.edu or Linda Tarr at ltarr@hoosieruplands.org
Please register with Kimber Nicoletti-Martinez, AgrAbility Mental Health First Aid Instructor at knicolet@purdue.edu

ANR News in-brief items for your consideration... (cont.)

HOOSIER
National
Forest



Natural Resources Conservation Service



Park Outdoor Series



RSVP: Autumn Ray @ 812-275-5692

July 25, 2023 @ 6pm

Pioneers of the Lick Creek Settlement

Tesa Villalobos, Heritage Program

Manager/Archaeologist

Bath House @ Otis Park 607 Tunnelton Rd.

August 22, 2023 @ 6pm

Bikes and Biking 101

Tad Armstrong

Bath House @ Otis Park 607 Tunnelton Rd.



September 26, 2023 @ 6pm

Raptors

Lola Nicholson

Bath House @ Otis Park 607 Tunnelton Rd.



October 24, 2023 @ 6pm

Fire in Indiana

Dan McGuckin

Bath House @ Otis Park 607 Tunnelton Rd.

November 28, 2023 @ 6pm

Special Areas

Janet Eger & Teena Ligman

Bathhouse @ Otis Park 607 Tunnelton Rd.



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ANR News in-brief items for your consideration... (cont.)

STOCKMANSHIP

*with Curt Pate***SOUTHERN INDIANA PURDUE AG CENTER
DUBOIS, INDIANA**

11371 E. Purdue Farm Rd | Dubois, IN 47527

\$30 person per event

SEPTEMBER 29, 2023**1:00pm - 7:00pm EST**Beef focused program
supper will be served**SEPTEMBER 30, 2023****10:00am - 5:00pm EST**Sheep & Goat focused program
lunch will be served

From Ryegate, MT, Curt Pate uses his personal experience incorporating effective stockmanship principles supports a "for profit" mindset and focuses on highlighting the increased economic benefits of handling stock correctly. In addition, Curt recognizes the growing public scrutiny surrounding live-stock production and the impact that improved livestock handling practices create for the sustainability of the cattle industry.

Direct questions to towerj@purdue.edu or 812-678-4427

Register Online under the events tab

www.indianabeef.orgwww.indianasheep.comwww.indianaforage.org**Mail-in Registration: IBCA 8425 Keystone Crossing, Suite 240 Indianapolis, IN 46240**

Full Name: _____

Circle if member of - IBCA ISA IFC

Email: _____

Registration Type: (Day 1, Day 2, or Both)

Phone Number: _____

Payment Type: Credit Card or Check **\$30/day/person**

Address: _____

Credit Card Type (Visa, Mastercard, Discover)

City: _____ Total enclosed _____

Credit Card # _____

State: _____ Zip: _____

Expiration Date ____/____ CV Code _____

Please make checks payable to **Indiana Beef Cattle Association**
8425 Keystone Crossing, Suite 240 Indianapolis, IN 46240
If accommodations are needed please contact 812-678-4427.

Registration closes Sept 21st

ANR News in-brief items for your consideration... (cont.)

MAGNIFICENT TREES OF INDIANA

Carroll D. Ritter

Featuring more than two hundred gorgeous color photographs of Indiana's champion trees and old-growth forest remnants, *Magnificent Trees of Indiana* is a celebration of the state's natural beauty. Seventy-four trees are featured as well as twenty old-growth woods. Each has been photographed to illuminate the grandeur of the natural world.

Accessible to the outdoor enthusiast, this book details the changes that have occurred over the last two centuries in Indiana's forests, including the landscape geology and physiography. The forest is celebrated as a living community, with highlights including odd forms, curious trees, and unique occurrences—many of which can still be visited today.

Magnificent Trees of Indiana makes for a beautiful coffee-table gift book for any Hoosier or nature lover, walking the reader through the geologic past, into early pioneer times, and onward to the present, all while covering the history, value, and economic importance of our hardwood forests.



“Carroll Ritter's *Magnificent Trees of Indiana* is an excellent addition to the library of anyone interested in Indiana's natural history—its forests and its biological diversity. Ritter is an exceptional naturalist and an excellent writer. In this wonderful volume, he brings the reader from the ancient times to the present, and from landscapes to individual old-growth tracts. We learn about Indiana's biggest trees, the remaining old-growth forests, and about odd and curious trees as well. Ritter's discussion of many individual tree species and old-growth sites, in separate essays, brings the reader right into the quiet forest, periodically startled as a heron takes wing, or inspired as a bald eagle soars overhead. The text about these individual nature preserves describes the cliffs and canyons, floodplain forests, upland oak-hickory forests, and rich mesic beech-maple forests that visitors will encounter. *Magnificent Trees of Indiana* can be returned to often as a reference or enjoyed as a pleasant read at a quiet time.”

—JOHN A. BACONE, Director Emeritus, Indiana Division of Nature Preserves, Indiana Department of Natural Resources

Receive 30% off the retail price when you order directly from Purdue University Press and use discount code **PURDUE30**

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Also available via all local bookstores and major online retailers

MARCH 2022

HB • 978-1-61249-741-9 • \$34.99

Includes more than 270 Color Photos

9x12 • 280 Pages • E-book available

CARROLL D. RITTER is a retired science teacher with a lifelong interest in trees and wildflowers. He attended Purdue University, received his master's degree from Indiana University, and completed advanced coursework in field geology from Western Washington University. After retirement, he assisted Sycamore Land Trust, developing their first and very successful environmental education program working with children of all ages. An avid mountain hiker, backpacker, and photographer, he has logged over two thousand miles on trails in the United States and Canada. He has nominated seven state champion trees over the years, including three new ones for the 2020 Indiana Big Tree Register. He lives in Williams, Indiana, where he practices forest conservation on his own land and still loves and admires his trees.

Connect with the author

Carroll Ritter is available for questions or invitations to group presentations and book signings. Contact him at **outdoorconnect3@gmail.com**



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