

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.

Soil Health Workshop set for March 7 in Paoli—PARP & CCHs

Join us for an informative workshop to learn about soil health basics and how they relate to your farming operation, the benefits of organic matter, soil micro-organisms, and more! This event is free to attend. Thanks to sponsorship by the Indiana Soybean Alliance & Indiana Corn Marketing Council, applicator credits will be available at no cost as well! CCH categories 1, 14 & RT will be available.

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.

2023 Custom Rate Survey

ATTENTION: Producers & Custom Rate Applicators—Please take a few moments to fill out this custom rate survey if you perform custom services and/or hire custom services. Even if you can only fill out one or two items on the survey, any and all information is helpful! This survey's results are widely used by many like myself in county offices to assist producers. Surveys will be collected through the end of March. Qualtrics Survey: https://purdue.ca1.qualtrics.com/jfe/form/SV_2shSaYGT7GyuLpY

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

Timely Beef Related Articles that Might be of Interest:

Go to this link (<http://u.osu.edu/beef/>) to find any of the following provided by Stan Smith Extension Beef Specialist with Ohio State University:

- Plan Early for Breeding Your Beef Cattle
- Selecting your Replacement Heifers to Meet Long-term Herd Goals
- Using Genomic Test Results for Commercial Heifer Selection
- Estrus Synchronization Programs for Natural Service
- Price is Only Part of the Cow-calf Revenue Story

Helpful Articles and Links for Frost Seeding Legumes

- Excellent article on the importance and how to Frost-seed Clover
<https://u.osu.edu/beef/2023/01/18/frost-seeding-clover-a-recipe-for-success/>
- Calibrating a Spinner Spreader, 5 min: <https://www.youtube.com/watch?v=E0wSBYlJDbw>
- Frost Seeding of Clover – YouTube, 5 min; <https://www.youtube.com/watch?v=dmBBBaLVg-Y>
- Precision Ag isn't just for Row Crop Guys, 33 min; <https://www.youtube.com/watch?v=Iun7J53Ds-g>
- Ten Tips to Help Livestock Producers Weather High Fertilizer Prices – Chris Teutsch, 21 min; <https://www.youtube.com/watch?v=sgIS2IBew0M>
- Rejuvenating Rundown Pastures: Pasture Renovations-Chris Teutsch, 40 min; <https://www.youtube.com/watch?v=RjLKnoPATZM>

Indiana Small Farm Conference, March 2-3

The 2023 Indiana Small Farm Conference is March 2-3, 2023 at the Hendricks County Fairgrounds & Conference Center in Danville, IN 46122. More conference information is available at: https://extension.purdue.edu/anr/teams/dffs/small_farm_conference/sfc-2023.html.

Indiana Beef Producers Tour, April 3-7

The 2023 Indiana Beef Producers Tour is visiting beef cattle operations and beef-related agribusinesses in Indiana, Illinois, and Michigan from Monday, April 3 through Friday, April 7. Contact Ophelia Davis, ANR Educator, at the Extension office 812-275-4623 or odavis@purdue.edu for additional tour information.

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



Executive Vice President of the Indiana Beef Cattle Association/ Indiana Beef Council

- The EVP is the chief staff officer of this volunteer-driven, not-for-profit organization and serves as the direction of the IBCA Executive Committee and the Board of Directors. The EVP also oversees the collections and expenditures of the Beef Checkoff in Indiana. The position is full-time and on-site at the office in Indianapolis, IN. To apply, complete the application provided. Applications will be accepted through January 25, 2023.

<https://www.indianabeef.org/indiana-beef-cattle-association/about-us/careers/executive-vice-president>

Input Needed From Beef Producers with Survey

Take this 10-minute academic research survey about “Adoption of Bovine Respiratory Disease Biosensors ” https://purdue.ca1.qualtrics.com/jfe/form/SV_bqqzYqxuAY2ghuZ for a 1-in-50 or greater chance to win a \$100 gift card for Amazon or Walmart! You can help us better understand how beef producers make decisions about accepting new technologies.



Join the White River Forestry Committee's

Annual Wildflower Hike

April 8, 2023


Location: Feldun Purdue Agricultural Center
1117 State Road 458 Bedford, Indiana 47421

Sign up for one of two hikes: 10:30am-12 or 12:30pm-2

Cost: \$10 Payment required to hold your reservation

RSVP with SWCD at 812-279-8117 ext 3 with Mandy or Stephanie

Join us as we explore the abundance of spring ephemerals. Of the property's 880 acres of land, 234 acres are forested with intriguing karst terrain. Hikes will be led by Carroll Ritter, Janet Eger and others. We hope for a warm sunny day but will do the hike even in light rain. Please wear sturdy shoes. If you wish to bring your lunch, picnic tables are available. Snacks and water will be provided.



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

Access to Animal Medications: Plan Ahead for Changes Coming this Summer

Changes are coming to the way certain antibiotics will be available to animal owners by June 11, 2023. The U.S. Food and Drug Administration (FDA) has been taking steps to improve the judicious use of antibiotics in humans and animals. For animal owners, the next step is outlined in *Guidance for Industry (GFI) #263*. This document requires drug companies to change the labels on over-the-counter medically important antibiotics (MIA) to prescription status. The FDA has been working toward the goal of having all medically important antibiotics for animals fall under the oversight of veterinarians. In 2017, FDA required MIAs in feed to have a veterinary feed directive (VFD) and all antibiotics administered via water have prescription labels.

Not all drugs, and not even all antibiotics, will be affected by this rule change - only MIAs. Medically important antibiotics are those classes of antibiotics that are important for treating human disease. However, the most common over-the-counter antibiotics such as penicillin, tetracyclines, and sulfas fall in the medically important category and will no longer be available without a prescription. GFI #263 affects MIAs for livestock, equine, and small animals.



Dewormers, some coccidiostats, and some less common and non-MIA antibiotics will not have a label change.

Antibiotics you have on-hand after they are no longer available to buy without a prescription may be used legally. However, stocking up on these products is not recommended as they may expire before they can be used. The best idea is to work with your veterinarian and have a plan in place for when animals may need antibiotics. If you don't currently have a regular veterinarian, now is a good time to reach out to one *before* an emergency occurs. Veterinarians are not obligated to write prescriptions or see animals, particularly after hours, if they are not regular clients. A valid veterinary client patient relationship (VCPR) is required for veterinarians to write prescriptions. To establish a valid VCPR, be prepared to have an annual visit from the veterinarian in order to have access to emergency visits and prescriptions. This federal rule change does not mean a veterinarian needs to see every animal every time it is sick. However, how you and your veterinarian will handle sick animals, prescriptions, and emergency situations is a conversation that should be completed in advance.

Source: Debbie Boyd, DVM; Indiana State Board of Animal Health

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

- Plant new trees and shrubs as soon as the soil dries enough to be worked. Plant bare-root plants before they leaf out. Soils may be exceptionally wet this spring as winter snows thaw.
- Fertilize woody plants before new growth begins, but after soil temperatures have reached 40 degrees F.
- Remove winter coverings from roses as soon as new growth begins. Prune out dead canes and fertilize as needed. Delay pruning into live canes until after winter injury can be assessed.
- Apply superior oil spray to control scale insects and mites when tips of leaves start to protrude from buds.
- Prune trees and shrubs, except those that bloom early in spring, while plants are still dormant. If winter injury is a concern, delay pruning until after die-back; desiccation injury can be assessed as plants come out of dormancy.

Indoor Plants and Activities**March**

- Start garden seeds indoors for transplanting outdoors later in spring.
- Check stored bulbs and produce for decay; discard damaged items.
- Prune, repot and clean houseplants as needed.
- Begin fertilizing houseplants as new growth appears. Keep spent leaves and flowers removed to improve appearance and encourage more blooms.

Flowers, Vegetables and Small Fruits**March**

- Gradually harden off transplants by setting them out-doors during the daytime for about a week before plant-ing.
- Follow last fall's soil test recommendations for fertilizer and pH adjustment. It's not too late to test soil if you missed last year.
- Start seeds of warm-season vegetables and flowers in-doors; in northern and central Indiana, wait until the end of March or early April. Transplant to the garden after danger of frost has passed.
- Watch for blooms of early spring bulbs, such as daffo-dils, squill, crocus, dwarf iris and snowdrops.
- Remove old asparagus and rhubarb tops, and side-dress the plants with nitrogen or manure. Plant or transplant asparagus, rhubarb and small fruit plants.
- Remove winter mulch from strawberry beds as soon as new growth begins, but keep the mulch nearby to protect against frost and freezes.
- Remove weak, diseased or damaged canes from rasp-berry plants before new growth begins. Remove old fruit-ing canes if not removed last year, and shorten remaining canes if necessary.
- Prune grapevines after winter injury can be assessed.
- Plant cool-season vegetables and flowers as soon as the ground has dried enough to work. Do NOT work the soil while it is wet; wait until it crumbles in your hand. If the soil forms a solid ball when squeezed, it's still too wet.

Reminders

By: Ward Upham, Horticulture Specialist, Kansas State University

- Cover strawberry plants with mulch so they don't heave out of the ground this winter.

Pruning Raspberries and Blackberries

By: Ward Upham, Horticulture Specialist, Kansas State University

Raspberries and blackberries are perennial plants with biennial canes. In other words, a single plant will last many years but an individual cane will only live for two. In a cane's first year, it will grow but will not produce fruit. The second year, it will fruit and then die. Though these canes can be removed after they have finished fruiting, many gardeners wait until now to remove them.



Dead canes are not difficult to identify. They are a much lighter color than live canes and are dry and brittle. These canes should be removed and discarded. The remaining canes should be thinned but the type of growth determines exactly how this should be done.

Black and purple raspberries and thornless blackberries: These tend to grow in a clump. Remove all the canes but 5 to 7 of the largest and healthiest in each clump. Cut back the remaining canes to living tissue if there was winter damage. With black raspberries, eight to 10 buds per lateral (side shoots) are usually enough. Cut laterals back to leave the recommended number of buds. Purple raspberries and thornless blackberries are more vigorous than black, so leave a few more buds per lateral. Thornless blackberries will also produce a few suckers that come up some distance from the clump. These should be removed or dug and transplanted to increase the planting.

Red raspberries and thorny blackberries: These two sucker badly and will fill the row with new plants. Prune out small canes within the row so that there are strong canes 4 to 6 inches apart. Head back all the remaining canes to about 5 feet. There is no need to prune back any laterals present. Keep aisles free of new suckers during the summer by mowing.

Everbearing red raspberries and blackberries: We now have what is called ever-bearing red raspberries and everbearing thorny blackberries. These are the exception to the rule in that they will bear fruit on first-year canes. Therefore, you can cut all canes to the ground in the winter and still have fruit. Examples include Heritage red raspberry and Prime-Jim, Prime-Jan, Prime Ark 45 and Prime Ark Freedom blackberries. For more detail and line-drawings that illustrate pruning techniques, see our publication titled, "Raspberries and Blackberries" at <http://www.ksre.ksu.edu/bookstore/pubs/mf720.pdf>.

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.)

Soil Testing

Cropland and Wildlife Food Plots



The Lawrence County SWCD & NRCS are partnering with Purdue Extension to help landowners pay for having soils tested. The test will be for Lawrence County landowners for [gardens, food plots, pasture or crop ground](#).

Two (2) free test will be offered for each landowner. Please contact Ophelia Davis or Dashia Meadows at Purdue Extension 812-275-4623 or Mandy Robbins at the SWCD 812-279-8117 x 3. Beginning March 1, all samples must be returned to Purdue Extension by **March 31, 2023**.



United States
Department of
Agriculture

Natural Resources Conservation Service



Extension

"USDA is an equal opportunity provider, employer, and lender"
Purdue University is an equal opportunity/equal access/affirmative action institution.

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

SOIL HEALTH WORKSHOP

MARCH 7TH, 2023ORANGE COUNTY COMMUNITY CENTER
1075 SANDY HOOK RD STE 2, PAOLI, IN**REGISTRATION: 8:30 ET
EVENT STARTS: 9:00
EVENT ENDS: 1:00****FREE PARP,
CCH CREDITS
& CAA CEU'S
AVAILABLE!**

SPEAKERS:

**Jim Hoorman**Hoorman Soil
Health Services
Jenera, Ohio**Dena Anderson**USDA-NRCS
Resource Soil
Scientist

Join us for an informative workshop to learn about soil health basics and how they relate to your farming operation, the benefits of organic matter, soil micro-organisms, and more! This event is free to attend. Thanks to sponsorship by the Indiana Soybean Alliance & Indiana Corn Marketing Council, applicator credits will be available at no cost as well! CCH categories 1, 14 & RT will be available. Lunch and refreshments will be provided.

While it is free to attend, please register by contacting the OCSWCD at (812)723-3311 ext. 3 or by email at OrangeSWCD@gmail.com. RSVPs due by Friday, March 3rd.

**SPONSORS:**

Extension

Conservation Cropping
Systems Initiative
Improving Soil Health on Indiana Crop Land

The USDA and its partners are equal opportunity employers, lenders and providers. Persons with disabilities who require accommodations to attend or participate in this meeting/event/function should contact the SWCD at 812-723-3311 ext. 3 at least 10 days prior to this scheduled event.

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



BULL REPRODUCTIVE SOUNDNESS EVALUATION CLINIC

WEDNESDAY, MARCH 22, 2023
BEGINNING AT 9:00 AM
SPRINGVILLE FEEDER AUCTION FACILITY
4426 STATE ROAD 54 W
SPRINGVILLE, IN 47462

This is for beef and dairy bulls from Lawrence and surrounding counties. Bulls need to weigh at least 900 lbs. and be a minimum of twelve months of age.

Bulls will be given a pre-breeding season check-up. Bull fertility, physical and reproductive condition will be evaluated by Dr. Ellen Burcham (Spring Mill Vet Clinic). Health management service may be available as in past years for an additional fee payable to Spring Mill Vet Service.

COST IS \$50.00 per bull.

Reservations are required by Monday, March 21, 2023.

To reserve an appointment, call the Lawrence County Extension Office at 812-275-4623 before 4:30 PM on Monday, March 20, 2023.



ANR News in-brief items for your consideration... (cont.)***SAVE THE DATE*****Pre-Sale Open House****Friday April 14, 2023 - 3 PM to Dusk • IBEP Test Station****Complimentary Meal at 6:00 PM (RSVP by April 6, 2023)**SCAN TO VIEW
SALE CATALOG**91st IBEP Performance Tested Bull Sale****Saturday April 15, 2023 - 1 PM EST • Springville Feeder Auction**<https://ag.purdue.edu/departments/ansc/ibep/2022-winter-test.html>***MORE BULL FOR YOUR BUCK...
PERFORMANCE TESTED, RANCH READY*****Sale Location:****Springville Feeder Auction****4426 State Road 54 W****Springville, IN 47462****(10 miles Northwest of Bedford, IN)*****View and Bid Live on:*****LiveAuctions.TV****Indiana Beef Evaluation Program**

1117 State Road 458

Bedford, IN 47421

812-279-4330

Sponsors of IBEP**PURDUE
UNIVERSITY**

Animal Sciences

**PURDUE
UNIVERSITY**

Extension

IBEP BULL SALE CATALOG REQUEST FORMComplete information below and return to IBEP or email nminton@purdue.edu by **March 24, 2023**

Send _____ Sale Catalog (s) Send to: _____

Address: _____

City: _____ State _____ Zip Code _____ No. Attending Open House _____

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

SAVE THE DATE

LAWRENCE COUNTY
FORESTRY FIELD DAY
MARCH 25, 2023

9AM-1PM
LUNCH PROVIDED

LOCATION: 341 SORRELS ROAD
MITCHELL, IN

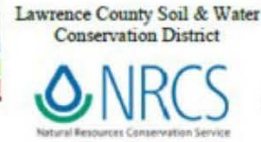
TOPICS: INVASIVES, WILDLIFE VALUE, TIMBER
MANAGEMENT, CONSERVATION PROGRAMS



RSVP AT SWCD
812-279-8117 EXT. 3



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



Surveyor's Snapshot of Indiana's Forests

Date: Tuesday,
March 28, 2023

Time: 6:00 pm

Location: Bath House
at Otis Park
(607 Tunnelton Road,
just past Red Brick
Mansion)

Speaker: AJ Ariens,
IDNR Forestry

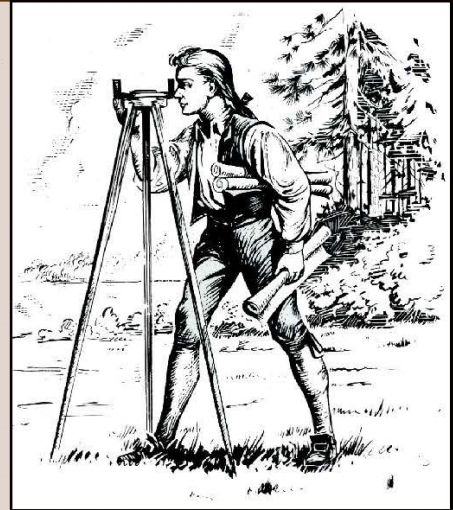
Deadline to RSVP:
Friday, March 24

RSVP:
Bedford Parks Dept
Jordan Webb or
Gary Dorsett
Phone: 812-275-5692
jwebb@bedford.in.us
gdorsett@bedford.in.us

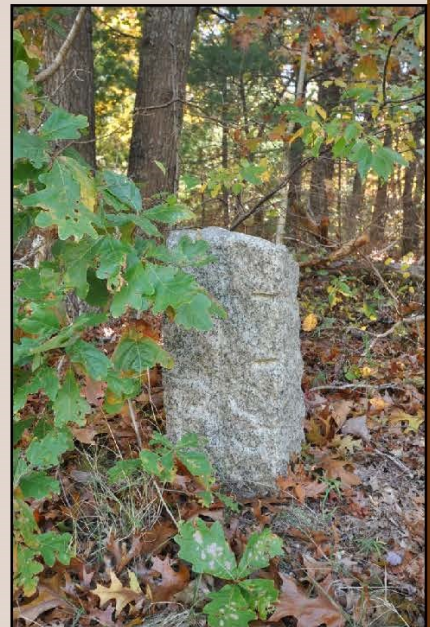
Join us Tuesday, March 28, at the Otis Park Bath House to learn what the first men who surveyed the Indiana Territory in the early 1800s said in their notes about the land that they found.

You may be surprised at what trees they selected as witness trees and what notes they made.

AJ Ariens has studied the notes made over 200 years ago by these men and will share what she's learned about the lands surveyed in the early 1800s. We hope to see you there!

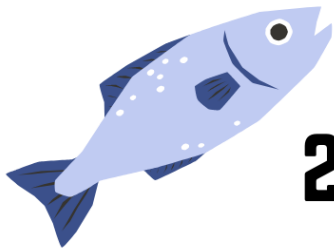


Above is a compass used by land surveyors in the 1800s. To the right is a section corner marker they left to mark the corner of a 640 acre section.

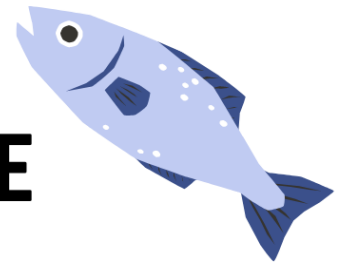


ANR News in-brief items for your consideration... (cont.)

Lawrence County Soil & Water Conservation District

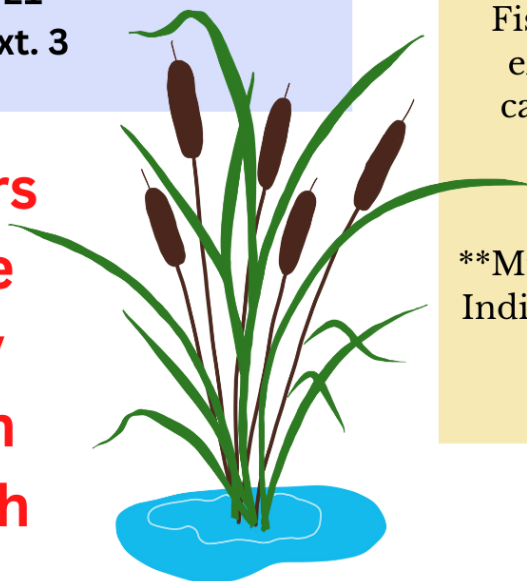


2023 SPRING FISH SALE

**Pick-Up Date:****Tuesday, April 18th****Pick-Up Time:****10:00 AM****Pick-Up Location:****USDA Service Center Parking Lot
1919 Steven Ave.
Bedford, IN 47421****Contact:****Lawrence County SWCD
1919 Steven Ave.
Bedford, IN 47421
812-279-8117 ext. 3****Fish Available For Purchase:****Type of Fish****Price**

6-8" Channel Catfish	\$ 0.75
2-4" Hybrid Bluegill	\$ 0.75
2-4" Regular Bluegill	\$ 0.75
3-4" Redear Shellcrackers	\$ 0.95
3-4" Largemouth Bass	\$ 1.35
3-4" Black Crappie	\$ 1.20
8-11" Grass Carp**	\$ 16.00
Fathead Minnows (per 1000)	\$ 39.00
3-5" Koi	\$ 5.00

**All orders
must be
paid by
noon on
April 12th**



Fish come bagged and ready,
except for catfish and grass
carp. Catfish require you to
bring a clean container.

****Minimum order 5 grass Carp****
Indiana State Law requires Grass
Carp to be delivered**

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

Learn-N-Burn Prescribed Fire Workshops

Interested in learning more about how prescribed fire can be used to improve your property? Join Forestry and Wildlife Professionals for an introduction to prescribed fire. Live fire demonstration (weather permitting). Whether you have woodlands or grasslands, we have a workshop for you.

Register Here; <https://cvent.me/PrZMPv> **\$25**
(includes lunch)

3 Individual Workshops

Woodland Workshops

March 25th, 2023, 9 am - 2 pm
Southern Indiana Purdue Ag. Center,
Dubois, IN

April 15th, 2023, 9 am - 2 pm
Martell Forest,
West Lafayette, IN

Grassland Workshop

March 23rd, 2023, 9 am - 2 pm
Gabis Arboretum,
Valparaiso, IN

Questions?

Contact: Jarred Brooke, jmbrooke@purdue.edu



Workshop Partners include:
Let the Sun Shine In - Indiana



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

Horticulture



DIY Lawncare Signature Program

Create and Maintain Your Dream Lawn with Purdue Extension



Do you want to know how to have a greener, healthier lawn? Join us for this series where you will receive information on essential turf basics needed to lay the groundwork for creating, establishing, and maintaining your lawn.

Who should join?

- Homeowners
- Property Renters
- Homeowner Associations

What will I learn?

Session 1: Basics of Taking Care of Lawns
 Session 2: Lawn Pests and Problems
 Session 3: Weed Identification and Management
 Session 4: Seeding Establishment and Lawn Renovation

Sign up today!

Details for your DIY Lawncare program – and how to register – are below:

County Name: **Clark, Scott & Washington**

Dates: **April 6, 13, 20 & 27, 2022 6-8 pm EST**

Location: **Train Depot, 90 N Main St, Scottsburg, IN**
 Register at: **<https://bit.ly/3thnrBN>**

Registration Deadline: **March 31, 2023** Limited to 20 enrollees "in-person", all others virtual

Program Fee : **\$20/person - \$30/2 if same family/business**



www.facebook.com/PurdueHorticultureAndLandscapeArchitecture



[purduehla](https://www.instagram.com/purduehla)

Horticulture

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

HOOSIER
National
Forest



USDA
United States
Department of
Agriculture
Natural Resources Conservation Service

DNR
INDIANA DEPARTMENT OF
NATURAL RESOURCES

Park Outdoor Series

RSVP with Jordan Webb @ 812-275-5692

January 24, 2023 @ 6pm

Classics of Southern Indiana Cave Exploration

Carroll Ritter

Bath House @ Otis Park 607 Tunnelton Rd.

February 28, 2023 @ 6pm

Walking With Friends in Interesting Places- Volkswalks

Teena Ligman

Bath House @ Otis Park 607 Tunnelton Rd.

March 28, 2023 @ 6pm

Surveyor's Snapshot of Indiana Forest in the early 1800's.

A.J. Ariens Indiana DNR Forest Archaeologist

Bath House @ Otis Park 607 Tunnelton Rd.

April 25, 2023 @ 6pm

Magnificent Trees of Indiana

Carroll Ritter

Bath House @ Otis Park 607 Tunnelton Rd.

May 23, 2023 @ 6pm

Backyard Composting

Soil & Water Conservation District

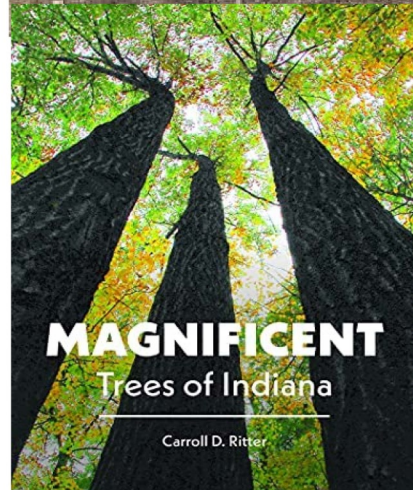
@Community Garden 416 H Street

June 27, 2023 @ 6pm

Take a Stroll through History- Northside Historic District

Marla Jones & Teena Ligman

Meet @ Episcopal Church 1219 14th St, Bedford



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

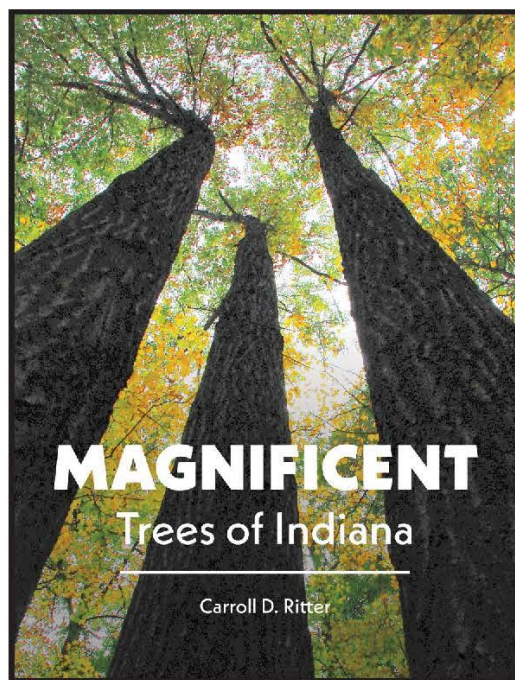
MAGNIFICENT TREES OF INDIANA

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

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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**



Purdue University Press

ASSURED ADMISSION

PURDUE FAST START

PROGRAM



At Purdue University, we are
empowering students to direct their
own futures through the free

PURDUE FAST START PROGRAM,

which makes higher education more
affordable for all.

WHAT

Many promising students will now have the opportunity to take their first steps toward a Purdue degree with the new Purdue Fast Start program. Through Purdue's partnership with ModernStates.org, a website featuring more than 30 free, high-quality courses, you can gain assured admission into Purdue by earning free college credit. This partnership will create new opportunities for Indiana students to take giant leaps in their education with a new pathway to Purdue University.

**THROUGH THE PURDUE FAST START PROGRAM,
STUDENTS WILL BE ABLE TO MAKE THEIR OWN
GIANT LEAPS A REALITY BY EARNING ACCESS TO
AFFORDABLE, HIGH-QUALITY EDUCATION AT PURDUE.**

HOW

To earn acceptance into Purdue, Indiana students can take the Modern States online courses for free. Those who pass a minimum of five corresponding College Board CLEP exams are assured admission to Purdue and will be designated as Klinsky Scholars. Students also will have access to mentors during the program.

Make a Purdue University education even more affordable:

- Free online courses and corresponding CLEP exams through Modern States, covering the entire cost of the Fast Start program
- Complete 5 courses + pass the CLEP exams (paid for by ModernStates.org) = 15 credits, a full semester's worth of credit at Purdue, **WHICH CAN SAVE A STUDENT \$11,000**
- Complete 10 courses + pass the CLEP exams (paid for by ModernStates.org) = 30 credits, freshman year for free at Purdue, **WHICH CAN SAVE A STUDENT OVER \$21,000**

LEARN MORE

For more information, go to the Fast Start website at purdue.university/faststart, or call 765-494-1776 or (for hearing impaired) 800-743-3333.



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