



University of Kentucky
College of Agriculture,
Food and Environment
Cooperative Extension Service



JANUARY - MARCH 2023

AGRICULTURE/HORTICULTURE

Whitley County Cooperative Extension Service



Important Dates to Remember

2023 Homestead Series

Beginner's Introduction to soil / Gardening 101

Raised Garden Bed / Pork Processing

2023 Plant Sales

Fruit Tree Grafting Workshop

Whitley County Beekeepers Association

Beekeeping Series / Beekeeping School

Whitley County Farmer's Market (WCFM)

Cumberland GAP Cattle Conference

The County Agricultural Investment Program (CAIP)

Basic Cheese Making Workshop

Eastern KY Farmer's Conference

Cook Wild Kentucky / Sheep & Goat Management Calendar

Hunter Education

Depths of Winter

Oak Conference

Early Successional Habitat

AG Economists Prediction

Cow Fertility

Seed Swap

High Tunnel Planting Calendar for Annual Crops


In This Issue

Cooperative Extension Service
Agriculture and Natural Resources
Family and Consumer Sciences
4-H Youth Development
Community and Economic Development

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LEXINGTON, KY 40546



Disabilities
accommodated
with prior notification.

- *January 09 - Beekeepers Association @ 6 PM
- *January 16 -Martin Luther King Jr. Day (Office Closed)
- *January 17- Whitley County Small Farms @ 6pm
- *January 21 - Eastern Kentucky Virtual Beekeeping School @ 9am (see page 5)
- *January 26 - Whitley County Cattlemen Association @ 7pm
- *January 26-28 - OAK Conference (Frankfort)
- *January 30 - Seed Swap @ 1pm (Corbin Public Library)
- *January 31 - Basic Beekeeping @ 6pm
- *February 13 - Beekeepers Association @ 6 PM
- *February 14 - Valentine's Day 
- *February 21- Whitley County Small Farms @ 6pm
- *February 23 - Whitley County Cattlemen Association @ 7pm
- *February 24-25th - Eastern Kentucky Farmer Conference
- *February 28 -Introduction to Soil @ 6pm (Zoom)
- *February 28 - Bee Hardware @ 6pm
- *March 2 - Beginning Gardening @ 6pm
- *March 4 - Pork Processing @ 10am (Introduction to Basic Slaughter)
- *March 11- Pork Processing @ 10am (Pork Carcass , Primal Cuts of Pork)
- *March 13 - Beekeepers Association @ 6 PM
- *March 16- Fruit Tree Grafting @ 1pm & 6pm
- *March 17 - Basic Cheese Making @ 10am
- *March 21 - Whitley County Small Farms @ 6pm
- *March 23 - Shiitake Mushrooms @ 1pm & 6pm
- *March 25 - Hunter Education @ 9-4pm
- *March 28 - Raised Garden Bed @ 6pm
- *March 28 - Bee Diseases and Pests @ 6pm
- *March 30 - Whitley County Cattlemen Association @ 7pm

** Important Dates to Remember **

COOPERATIVE EXTENSION



Introduction to Soil
February 28 @ 6pm
Zoom call to get Link

Gardening 101
Beginning Gardening
March 2 @ 6pm
Goldbug

*Raised Garden Bed
28 Mar 6pm
Goldbug

April 8th 10am
WD Bryant

Container Planting
May 30th 6pm
Goldbug Office
May 27th 10am @
WD Bryant Corbin

Herb Gardening (KSU)
May 6, 10am
WD Bryant

2023 HOMESTEADING SERIES

Plant, Grow, Process, & Eat

Pork Processing
March 4th
Intro to basic slaughter
Mar 11th
Pork carcass
Primal cuts of pork

Fishing 101
Bait to Plate
Processing
Fish
April 6 @ 6pm

Chicken Processing
April 29 @ 10AM
15 slots

Hunter Education
March 25 9-4pm
Aug 12 9-4pm

Rabbit Processing
Oct 14 @ 10AM
15 slots

Deer Processing
NOV 4 @ 10AM

Poultry Production for Meat (KSU)
Aug TBD

*Salt Preservation
How to Cure Anything
TBD

Shiitake Mushroom Logs (KSU)
March 23 @ 1pm + 6pm

Basic Cheese Making Workshop
March 17 10AM

Beginning Basket Making
Make your own Bread Basket
May TBD

Basic Soap Making (KSU)
Aug 3 @ 6pm

Introduction to Beekeeping (KSU)
March 4 @ 10am
WD Bryants

Jams & Jellies



Canning & Preserving	Beginning Beekeeping
Water Bath Canning WD Bryant	Basic Beekeeping January 31 @ 6PM
Pressure Canning	Basic Hardware February 28 @ 6PM
Dehydrating & Freezing WD Bryant?	Diseases and Pests March 28 @ 6PM
TBD	Honey Harvesting May 30 @ 6PM
Canning Meat	Value added Produce and Labels June 27 @ 6PM
	Hive Observation July 25 @ 6PM

Check out our 2023 Homesteading Series

Attend 14 of the 30+ Programs and receive a attendance incentive





Beautify your garden / lawn

FUNDAMENTAL PRINCIPLES OF SOIL

A BEGINNER'S INTRODUCTION TO SOIL

Join us on Zoom

February 28th @ 6PM and learn the basics of Soil

QUESTIONS CONTACT US: CALL US TO GET THE ZOOM LINK:

606-549-1430



Whitley County Cooperative Extension - Horticulture

Cooperative Extension Service
Agriculture and Natural Resources
Family and Consumer Sciences
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Community and Economic Development

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Achieve food freedom and sustainability on your own homestead

COOPERATIVE EXTENSION



Getting your Garden Started
Gardening 101
Open to anyone who wants to learn how to grow a garden!

Tuesday March 2 @ 6pm

A Free Gardening Course for Beginning Gardeners

Please plan to attend, Participants will receive a free beginners gardening book, a trowel and other goodies!

Whitley County Cooperative Extension Office
4275 N. HWY 25W
Williamsburg, KY 40769



Whitley County Cooperative Extension - Horticulture

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Raised Garden Beds



March 28 @ 6pm
Whitley County Extension
4275 N. Hwy 25W
Williamsburg, KY

or

April 8 @ 10am
WD Bryants
1405 S. Main Street
Corbin, KY

We are offering same class, two dates,
two different locations for your convenience

Oh the possibilities! Come explore the how to's of gardening in raised garden beds

- Is it cheaper to buy or build a raised garden bed?
- What do I put on the bottom of a raised garden bed?
- How deep should raised garden beds be?
- What are the disadvantages of raised garden beds?
- Do raised beds need foundations?
- How long does soil last in a raised bed?
- Should you line the inside of a raised garden bed?
- Can you put a raised bed on soil?
- Do you need topsoil in a raised bed?

These questions answered and more



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PORK PROCESSING

March 4th @ 10am

*introduce basic slaughter techniques

March 11th @ 10am

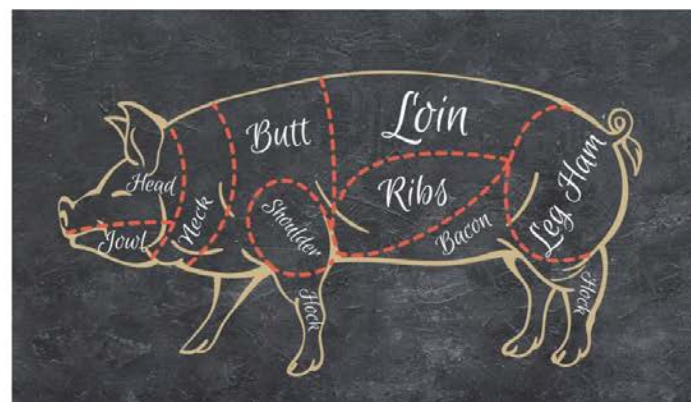
*pork carcass fabrication
*primal cuts of pork carcass

Whitley County Cooperative Extension
4275 N. HWY 25W
Williamsburg, KY 40769

Questions 606-549-1430



Whitley County Cooperative
Extension - Agriculture and
Natural Resources






2023 Plant Sales

Item	Unit Price
Strawberries (Allstar) (June bearing—larger berry)	\$5.00 (bundle of 25)
Strawberries (Earliglow) (June bearing—smaller, sweeter berry)	\$5.00 (bundle of 25)
Blackberries (Natchez)	\$4 each
Blueberries (Duke) (two varieties needed for pollination)	\$8 each
Blueberries (Chandler) (two varieties needed for pollination)	\$8 each
Raspberries (Prelude) - bare root	\$4 each
Jewel Black Raspberries	\$4 each
Asparagus (Millennium)	\$1 each
Onion plants (Candy)	\$5 (bundle of 60)


4275 N. Hwy 25W
Williamsburg, KY
40769

We are
currently
taking plant
sales Mon-Fri
0800-4:30
stop by the
office and
place your
order today

 606-549-1430



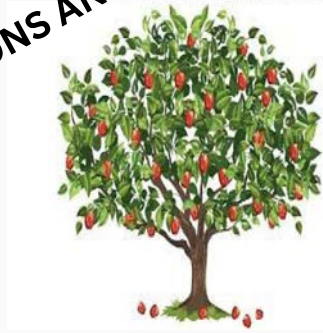
Pre-payment is required by
March 10th for all Plant Orders



COOPERATIVE EXTENSION



Hands on training
LEARN HOW TO GRAFT - BEGINNERS WELCOME!
MAKE A TREE OR ADD TO EXISTING TREES
GET YOUR QUESTIONS ANSWERED!



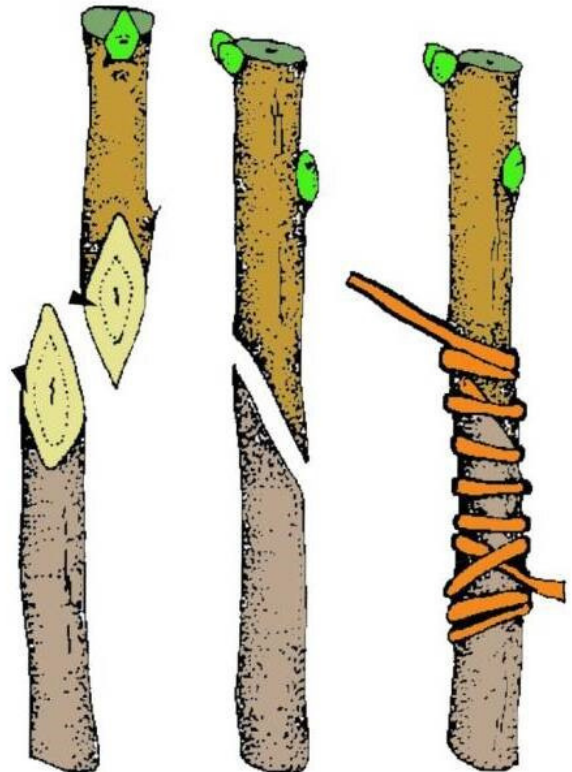
Fruit Tree Grafting Workshop

Whitley County Extension Office
@
4275 N. Hwy 25W
Williamsburg, KY

Thursday March 16 @
1pm & 6pm

A limited amount of rootstock will be available for purchase

For more information contact the Whitley County
Extension office @ 606-549-1430



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Stop by the office and order your Rootstock

COOPERATIVE EXTENSION



2023 Rootstock Order Form

Purchaser Information:

Name: _____

Address: _____

City, State, Postal Code: _____

Telephone: _____

Email: _____

Cooperative Extension Service

*Whitley County
PO Box 328
4275 N HWY 25 W
Williamsburg, KY 40769
(606) 549-1430
Fax: (606) 549-9029
whitley.ca.uky.edu*

Quantity	Item Description	Unit Price	Total
	Apple Rootstock	\$2.00	
	Pear Rootstock	\$2.00	

Pre-payment is required at the time of order.

Make checks payable to: Whitley County CES

Payment Information:

Amount Paid: _____

Date: _____

Received by: _____

Check No.: _____ or Cash _____

Rootstock orders are expected to arrive in February. You will be notified when your order is available for pickup.

Reminder: Our office hours are M-F, 8am-4:30pm

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Whitley County Beekeepers Association

Who We Are: Beekeepers sharing successes, learning, knowledge, wisdom, ideas, tips, excitement, honey, recipes, and encouragement.

What We Do: Enthusiastically help new beekeepers get started, expand the knowledge of experienced beekeepers, share our passion for beekeeping, collect swarms, process and sell honey through local contacts and farmers markets

When We Meet: 2nd Monday of every month at 6 p.m.

Where We Meet: Whitley County Extension Office, 4275 N. Hwy 25 W, Williamsburg, KY 40769

Facebook Page: Whitley County Beekeepers Association

E-mail Address: whitleycountykybeekeepers@gmail.com

For more information contact:
Whitley County Extension
606-549-1430

Follow the Whitley County Beekeepers Association on Facebook



2023 Education Programs*

- Mon. Jan 9 – Ordering Equipment and Bulk Order: Duane Foley
- Sat. Feb 11 – Bee School at McCreary Central High School
- Mon. Feb 13 – Assembling Equipment: Duane Foley and Edward Watson
- Mon. Mar 13 – Sanitizing Equipment: Theresa Martin
- Mon. Apr 10 – Pollination and Flower Structures: Renee Yetter
- Mon. May 8 – Raising Queens: Bonnie Joseph
- Sat. May 20 – Field Day with Dr. Tammy Horn Potter
- Mon. June 12 – Dead Bees Don't Make Honey: 10 Tips for Healthy Bees: Theresa Martin
- Mon. Jul 10 – Wax Moths: Univ of Cumberland Entomology Expert
- Sat. Jul 15 – Field Day at Darren Whitaker Farm
- Mon. Aug 14 – Propolis Uses by Bees and Humans: Todd Yetter and Theresa Martin
- Mon. Sep 11 – Races of Bees: Laura Rogers
- Sat. Sep 16 – Field Day at Michelle Breedlove Farm
- Mon. Oct 9 – Business Meeting and 2024 Planning
- Mon. Nov 13 – Wax, Candles, Soaps: Linda Reynolds
- Mon. Dec 11 – Holiday Party and Beekeeper of the Year

* Subject to Change. Visit Whitley County Beekeepers Association Facebook page for updates

Whitley County Beekeepers Association Membership Form

Name: _____
 Street: _____
 City: _____
 State & Zip: _____
 Phone: _____
 E-mail: _____

Annual Membership
 Individual: \$10 per year
 Family: \$15 per year

Make check payable to:
 Whitley County Beekeepers Assoc.

Amount Paid \$ _____ Check _____ Cash _____
Mail or deliver completed registration form and payment to:
 Whitley County Beekeepers Association
 c/o Whitley County Cooperative Extension
 P.O. Box 328
 Williamsburg, KY 40769

Whitley County Extension

Beginning Bee Keeping Series

2023

January 31
Basic Beekeeping

February 28
Bee Hardware

March 28
Bee Diseases and
Pests

April 21-22
Beekeeping and
Ag Workshop

May 30
Honey
Harvesting

June 27
Honey
Harvesting

July 25
Hands-on Hive
Observation

WHEN: Starting in January, every last Tuesday of the month, at 6 p.m.

WHERE: at the Whitley County Extension Office (Goldbug). 4275 U.S. 25W N, Williamsburg, KY 40769

For more information, call Laura Rogers at 606-549-7373 or cell: 606-344-0712

This institution is an equal opportunity provider.

Reasonable accommodations for individuals with disabilities will be provided free of charge upon request. Language access services for limited English proficient individuals will be provided free of charge upon request please contact Laura Rogers, at 606-549-7373 no later than January 2, 2023.



EASTERN KENTUCKY



VIRTUAL BEEKEEPING SCHOOL



SATURDAY, JANUARY 21, 2023

All times are Eastern time zone

- **9-00 a.m. Opening comments, Charles May, Perry County Extension Agent for ANR and Missy Fugate, President, Perry County Beekeepers Association.**
- **9:30 a.m. Hive Health Sampling, Kenneth Holbrook, Kentucky State University.**
- **10:00 a.m. Honey Testing lab and its Service, Dr. Audrey Law, Bluegrass Community and Technical College.**
- **10:30 a.m. Beginner Beekeeping Equipment, Dr. Tammy Potter, KY State Apiarist.**
- **11:00 a.m. The Role of Genetics and Purdue Lab Services, Dr. Brock Harpur, Purdue University.**
- **12:00 p.m. Beginner Beekeeping II, Where to get Bees, Dr. Tammy Potter, KY State Apiarist.**
- **12:30 p.m. Question and Answer / Adjourn**

For more information and to register for the Virtual Beekeeping School, call the Perry County Extension Office (606-436-2044), provide your name, address, phone number and email address. A link will be sent to your email sometime a week before the school. This virtual Beekeeping school will be presented Via Zoom. Visit the Perry County Extension Service web page at <http://ces.ca.uky.edu/perry> and click on the Agriculture & Natural Resource Link for a registration form. Or contact Charles May at cmay@uky.edu.





Farmers Market all volunteer board, from left to right: Stacy Modica, Danielle Black, Chance Hendrickson, Kayla Hendrickson, Erica Pearson, Angie Hill, Josh Teague

Whitley County Farmers' Market

The Whitley County Farmers' Market is a non-profit organization run by volunteers and dedicated to supporting local growers, makers, and farmers. Each season, which runs from late April until the end of September, the market brings together these community-based producers in three locations around the county. Markets held in Corbin, Williamsburg, and the UK Extension Office in Goldbug bring locally grown fruits and vegetables, as well as quality hand-made crafts, preserved items, and baked goods throughout the county. Shoppers can be certain they are only getting the freshest items since all produce must be grown in Whitley County or one of the counties that touches it. The Whitley County Farmers' Market also accepts SNAP food benefits and participates in programs that double those benefits for customers. The Whitley County Farmers' Market is always accepting new vendors and is known to offer the most markets for the lowest yearly membership fee. Members are welcome to participate in as many or as few markets as they like. The WCFM is also currently accepting applications for Market Manager for next season. If you are interested in becoming a member or applying for the Market Manager position email wcfarmermarket@gmail.com for more information. To stay up to date with the Whitley County Farmers' Market follow them on Facebook and Instagram!





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Saturday, February 4, 2023

LMU's DeBusk Teaching Center

Ewing, VA

Speakers from University of Kentucky, University of Tennessee, and Virginia Tech

Featured Topics:

- Economics of Fertilizer
- Byproduct Rations
- Theileria & Asian Longhorn Tick
- Fireant Control

Cost (includes lunch): \$25 for single & \$40 for couple

Registration at: <https://tinyurl.com/CGCC2023>

Or Contact Whitley County Extension Office at (606) 549-1430

Registration begins 9:00 am & Program begins at 9:30 am

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The County Agricultural Investment Program (CAIP) offers 11 investment areas that provide Kentucky agricultural producers cost-share assistance on practices that increase net farm income and opportunities to try new/innovative technologies or systems that improve farm efficiency and productivity. The Whitley County Cattlemen's Association is administering the CAIP Program for the county. They are using the Kentucky Agricultural Development Fund (KADF) cost share program for the CAIP Program.



2023 Standard Guidelines

Program areas for the 2023 CAIP Cost Share include:

- **Agricultural Diversification - (commercial horticulture production; commercial aquaculture production; timber production utilization, and marketing)**
- **Large Animal (beef cattle, dairy cattle and equine); EPD Standards; KY Bull Assessment Tool; Heifer Affidavit**
- **Small Animal (goats, sheep, swine, bees, and rabbits)**
- **Farm Infrastructure (farm storage facilities; greenhouse construction/conversion; livestock, equine and poultry facilities; on-farm composting)**
- **Fencing & On Farm Water**
- **Forage & Grain Improvement (forage, pasture, and grain production; commodity handling and forage equipment; Approved Forage Seed List**
- **Innovative Agricultural Systems (fenceline feeders, gravel paver grid, solar powdered watering system, tire waterers, water harvesting)**
- **On-Farm Energy (upgrades to all applicable farms; energy efficient building components and renewable energy projects; professional fees and training; biomass energy crop production; equipment and infrastructure for on-farm energy production)**
- **Poultry and Other Fowl**
- **AgTech & Leadership Development (precision agriculture; animal data management; miscellaneous equipment; computer hardware and record management software; broadband internet service; leadership development)**
- **Value-Added & Marketing (value-added; agritourism development; certified/commercial kitchen construction or renovation; marketing and promotion; food safety)**

Other forms that must be submitted with receipts for completed projects by approved producers:

- **Producer Report**
- **Producer Education Certificate**

The program is based on a 50/50 cost-share. Producers whose applications are approved must complete their project in compliance with the guidelines and submit paid receipts for purchases. (Please remember payments made in cash are NOT eligible.) After the review committee approves the receipts, the applicant will be reimbursed 50% of their eligible expenses.

The CAIP program is not a first come first served application process, and you do not have to be a member of the Cattlemen's Association or any other organization to be eligible for the program.

Whitley County CAIP Applications should be out by the beginning of February for 2023. You will be able to pick them up at the Whitley County Cooperative Extension office at
4275 N. Hwy 25W
Williamsburg, KY 40769
if you have questions or need any information on CAIP you can contact Harry Alder at (606) 304-0089



University of Kentucky
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Basic Cheese Making Workshop

March 17th

10am

Lunch will be provided

Call 549-1430 to register

Whitley County

Cooperative Extension

4275 N. Hwy 25W

Williamsburg, KY 40769



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SAVE THE DATE

2023 EASTERN KENTUCKY FARMER CONFERENCE

February 24th & 25th

Pine Mountain State Park

Join us for 2 days of sessions, workshops,
networking, story sharing and meeting with resource
providers.

Dinner and dancing Friday night.

cfaky.org/2023-eastern-kentucky-farmer-conference/





Cook Wild Kentucky recipe cards are available at the **Whitley County Cooperative Extension Office** for more information call **549-1430**.

ROAST VENISON

- 4 pounds venison roast
- 1 teaspoon salt
- 2 tablespoons flour
- 2 tablespoons oil
- 1/4 teaspoon garlic powder
- 1 onion, sliced
- 2 tablespoons brown sugar
- 1/4 cup lemon juice
- 4 cups low-sodium canned tomatoes
- 1/4 teaspoon brownie sauce, if desired

1. Wash hands with warm water and soap, scrubbing for at least 20 seconds, especially after handling raw meat.
2. Season roast with salt and roll in flour.
3. Brown roast on all sides in hot oil in a heavy skillet.
4. Place in a slow cooker and add remaining ingredients.
5. Cook on low for 10 hours or on high for 6 hours.
6. Refrigerate any leftovers within 2 hours after slow cooker is turned off. Divide leftovers into smaller containers to allow quick cooling.

Makes 12 servings
Serving Size: 5 ounces

Nutrition facts per serving:
250 calories; 6g total fat; 2g saturated fat; 5g total fat; 30mg cholesterol; 500mg sodium; 30g carbohydrates; 2g dietary fiber; 5g total sugars; 2g added sugars; 26g protein; 0% Daily Value of vitamin D, 0% Daily Value of calcium; 10% Daily Value of iron; 10% Daily Value of potassium.

Adapted from Venison Recipe Collection, Compiled by Becky Nash, Extension Agent for Family and Consumer Sciences.

Recipe's we have available are:

- Venison
- Fish
- Turkey
- Rabbit
- Squirrel

University of Kentucky Cooperative Extension Service | Nutrition Education Program

2022 | **COOK WILD KENTUCKY**
2023 | **RECIPE CALENDAR**

SEPTEMBER

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Nutrition/Cooking Tips
Bacon, celery, onions, mushrooms, thyme, and tomatoes are great to use in venison recipes.

Field Notes
Support others who can't know about hunting by sharing the rewards of efforts. Maybe even try them hunting with you.

First Day of Autumn

Stop by and Pick up a Cook Wild KY Recipe Calendar

Mon-Fri
8am - 4:30pm
4275 N. Hwy 25W
Williamsburg, KY 40769
606-549-1430



**We have Limited
2023 Sheep & Goat
Management Calendar
available**

Stop by and get yours today

Mon-Fri

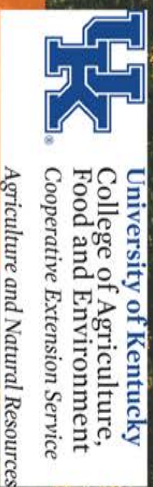
8am - 4:30pm

4275 N. Hwy 25W

Williamsburg, KY 40769

606-549-1430





HUNTER EDUCATION COURSE

March 25th 9:00-4:00

Whitley County Extension Office

4275 N. Hwy 25W, Williamsburg, KY

40769

OR

August 12th 9:00-4:00

Whitley County Extension Office

4275 N. Hwy 25W, Williamsburg, KY

40769

Attendees must have their own transportation.

Participants **MUST** register online at:

<https://www.register->

[ed.com/programs/kentucky/120-](https://www.register-ed.com/programs/kentucky/120-)

[kentucky-hunter-education-course](https://www.register-ed.com/programs/kentucky/120-kentucky-hunter-education-course)

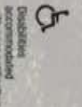
Questions?

606-549-1430



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The Depths of Winter

Tony Edwards – National Weather Service



When asking Kentuckians to reminisce about the worst winter storm they can remember, what comes to mind likely varies by region. Those in the west will likely recall the Ice Storm of 2009 when ice up to two inches thick coated everything and the power was out for weeks. Those in the Bluegrass will likely think back to January 1994, when one to two feet of snow fell, then an arctic blast sent temperatures plunging to a state record of 37 below zero in Shelbyville. Those in east Kentucky will likely recollect the Blizzard of 1993 when heavy snow and strong winds whipped up snow drifts of six to ten feet and temperatures plunged below zero.

While the likelihood that a similar winter storm will occur in your region this winter is remote, it does beg the question - are you ready if it does?

Probably the most effective step you can take at home to make it through the worst that winter can bring is assembling an Emergency Kit. Your kit should contain, at a minimum, 72 hours worth of food, water and prescription medications for everyone in your household, including your pets! If you heat with electricity, it's also important to ensure you have an alternate heat source. If that alternate heat source is a wood stove, make sure the chimney is clean before building a fire.

In severe winter storms, even venturing out to the barn to tend to the animals can be life-threatening! Horses and other animals struggle in severe winter conditions and will likely consume more hay than normal. Water sources will freeze up and require constant chopping of holes in the ice so animals can drink. Firewood stores will also be consumed quickly and propane may run out. These are just a few hardships to plan for.

Here are some more tips to remember when winter turns especially harsh:

- Stay dry to stay warm! Wet clothes result in much faster heat loss.
- Wear multiple layers. Trapped air between loose fitting clothing helps to insulate you from the cold. Wool keeps you warmer than cotton because wool fibers trap air pockets and when wool is exposed to damp conditions, it wicks moisture away from your skin and helps keep you dry. Also, try to use an outer layer that is water resistant.
- Cover everything you can! Wear mittens or gloves and a hat. At least half your body heat can be lost if your head isn't covered.
- Stay informed on the latest weather forecasts.

Finally, it's important to know the signs that someone is getting too cold. Hypothermia is a medical emergency that occurs when your body loses heat faster than it can produce it. Confusion, shivering, difficulty speaking, sleepiness and stiff muscles are all signs of hypothermia and signs that medical attention is urgently needed.

Preparing for the worst storm that may affect your area means you are well prepared for all of the less severe winter storms that will most assuredly come this winter, and you can sit back and enjoy the beauty of open country covered in a blanket of white.



#OAK2023 is a not-to-miss event featuring Kentucky farmers, production deep dives, research highlights, food system innovations, market opportunities, and the expanding OAK network for 3 days of learning and growing together.

Did you know that #OAK2023 offers 6 pre conference workshops on January 26th? If you can't make it to the entire 3 day Conference, you need to register for a half day intensive on the topic that will take your farm where you want to be for 2023.

Register today. You do not want to miss #OAK2023 in Frankfort on January 26-28, 2023.

<https://www.oak-ky.org/annual-conference>

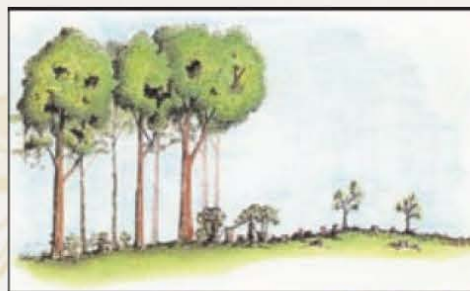


KENTUCKY

Early Successional Habitat

(Patch Clear Cuts)

Patch clearcuts provide excellent habitat for various wildlife species. White-tailed deer, wild turkey, bobwhite quail, cottontail rabbits, woodcock, elk, ruffed grouse, golden-winged warbler, & black bear among many more species rely on these areas for food and cover. Development of patch cuts involves removal of a small acreage of trees in irregular shapes to promote sunlight reaching the ground. This sunlight allows the regeneration of young forest & field communities utilized for food, cover, nesting, and brood rearing.



If you are a landowner that may be interested in technical guidance, cost-share assistance, and/or a forest management plan please contact:

Daniel Skinner KDFWR Private Lands Biologist

Phone: 606-224-5822 Email: Daniel.Skinner@ky.gov

DEPT. OF

RESOURCES

FISH & WILDLIFE

Kentucky ag economists predict record-high 2022 cash receipts

Economists predicted the Kentucky's 2022 agricultural receipts will approach a record-high \$8 billion.



Economists expect poultry to regain the top spot in Kentucky agriculture. Photo by Steve Patton, UK Agricultural Communications Specialist

Kentucky farmers have been on a wild ride throughout 2022. Spiraling inflation, major weather events, supply chain and trade disruptions, soaring input prices, labor issues and other factors offered challenges to the state's agriculture sector. Add to that the war between two major global markets, Russia and Ukraine, generated significant impacts on commodity prices, ag trade flow and availability of farm inputs and global food supplies.

During the Kentucky Farm Bureau's annual meeting, University of Kentucky College of Agriculture, Food and Environment economists shared their predictions for the state's agriculture and forest economies. Despite significant challenges, the economists predicted the state's 2022 agricultural receipts will approach a record-high \$8 billion, well surpassing the 2021 record-high of \$6.9 billion.

"Adjusted for inflation, our 2022 estimate, if achieved, will be 19% higher than the inflation-adjusted average over the previous 10 years," said Will Snell, UK agricultural economist. "Even with record increases in input expenses and considerably lower government payments, the U.S. Department of Agriculture predicts farm income will be higher in 2022.

Mother Nature dealt harsh blows to Kentucky farmers in 2022.

"Extensive periods of excessive rain early in the growing season, followed by drought conditions during the critical growing periods, led to lower crop yields and a poor curing season for tobacco," Snell said.

The December 2021 tornado in Western Kentucky and the devastating July flooding in Eastern Kentucky destroyed agriculture infrastructure in both regions and likely affected farm income and marketing.

"While Kentucky benefitted from relatively high national commodity prices, low levels on the Mississippi River adversely impacted local grain prices during harvest season due to limited grain flow. Additionally, domestic and export markets induced a significant grain carryover into 2023," Snell said. "Despite all those challenges, the Kentucky agricultural economy remained strong overall."

Snell anticipates that Kentucky farm-level prices will more than offset the lower yields for most Kentucky agricultural enterprises.

Even with challenges from the tornado and avian influenza, economists expect poultry to regain the top spot in Kentucky agriculture with a 20%-market share of receipts. The list continues with soybeans and corn, both with 18%, equine with 16% and cattle at 13%.

"While broiler production was down in Kentucky, wholesale broiler prices were up over 40%, year-over-year, mainly driven by record high wholesale breast meat prices," said Jordan Shockley, UK agricultural economist. "High prices more than made up for the decrease in overall production, leading to poultry regaining the top spot in Kentucky agriculture."

Equine markets continued to show strength during 2022, as annual Keeneland sales were 12% higher than 2021. Pursues continue to grow and this continues to support sale values and stud feeds.

UK agricultural economist Kenny Burdine said cattle prices were higher in 2022 for heavy feeders and calves, but increased production costs eroded most of that price improvement.

"Elevated feed prices continue to incentivize placement of heavier cattle into feeding programs, which has increased the value of gain for Kentucky producers and encouraged adding more pounds before sale," he said.

Burdine added that drought in much of the United States has led to extremely high female slaughter and the industry will likely enter 2023 with a 3-4% reduction in beef cow inventory.

Those supply fundamentals should bode well for feeder cattle prices next year and we should see prices at levels that we have not seen since 2015," he said.

UK agricultural economist Greg Halich said profitability for grain crops looks good for 2023, even considering the significant increase in input prices.

"For the upcoming 2023 crop season, prices are predicted to be around \$5.50-6.00 per bushel for corn, \$13-\$14 per bushel for soybeans, and \$7-8 per bushel for wheat," he said.

Kentucky's forest industry includes logging, primary wood manufacturing, secondary wood manufacturing, pulp and paper, paper converters and wood residue.

"While 2021 was a banner year for the price of many hardwood products, there has been a 53% percent collapse in lumber values across all species in the second half of 2022. This has resulted in a softening of prices for timber and logs cut for lumber," said Jeff Stringer, chair of the UK Department of Forestry and Natural Resources. "While there should be bright spots in 2023, including white oak stave and railway tie logs, lumber log prices are hard to predict."

Stringer said there is a capacity issue for logging and sawmilling in some areas of the state, most notably eastern Kentucky, and a decrease in overall demand.

"These opposing supply and demand factors are creating significant uncertainty for timber, log and lumber prices in 2023," he said.

Higher specialty crop prices and expanding market channels led to record fruit, vegetables, nursery and greenhouse levels in 2022. Labor, fertilizer, plastic and construction costs have substantially risen, especially for larger controlled environment greenhouses. Growing imports will also put increasing pressure on larger-scale production.

"Kentucky horticulture producers continue to benefit from strong demand locally and regionally with rapidly growing auctions and direct-to-consumer market opportunities," said Tim Woods, extension professor for the UK Center for Crop Diversification. "This should continue into 2023."

The average crop farm participating in the Kentucky Farm Business Management program realized \$871,325 in net farm income in 2021. Even adjusted for inflation, this far exceeds the previous 2013 high.

"Based on what we have seen, commercial-sized crop farms entered the year with a very healthy balance sheet," said Jerry Pierce, KFBM coordinator." It provided cash to operate the farm, possibly reduce operating debt, and even loosen the belt on family living a bit. The additional profitability does mean more income taxes."

Pierce said tax planning has been difficult this year because of high prices, limited supply of pre-pay inputs and the scarcity of equipment for depreciation.

"A lot of 2021 crops were carried over to be sold this year," he said. "My guess is that there will be a lot of this year's crops carried into next year."

Snell said Kentucky will enter 2023 with continued tight global supplies of most agricultural commodities and, as such, continued high input prices.

"The upcoming year is filled with much uncertainty over issues such as war in Ukraine, South American crop production response, effects of inflation on interest rates and the cost and availability of ag inputs," Snell said. "Most economists expect commodity prices and margins to moderate in 2023 but to maintain relatively high cash receipts and net income levels. Producers must continue to monitor changing conditions and be ready to adjust marketing strategies in an uncertain marketplace."

Snell said that despite several adverse trade headwinds such as a much stronger U.S. dollar, up 10% in 2022, and global economic growth cut in half, U.S. agricultural exports' value will end the year at record-high levels with gains across most commodities and major food products.

"China remains the U.S. largest foreign customer for U.S. agricultural products, but U.S. ag sales to other major foreign markets, including Canada, Mexico, Japan and the European Union, all experienced double-digit percentage increases through September 2022 compared to the same period last year," Snell said.

Snell added that while prices for some inputs, such as fuel and fertilizer, have moderated in recent months, they remain relatively high and volatile.

"Even with higher input prices, ag commodity prices have generally increased by a larger percentage as tight global supplies amidst strong export demand are keeping prices well above levels in recent years," he said. "Interest rates have steadily increased in recent months, with operating and real estate loans now above 7% and rising. Higher interest rates and tightening profit margins may soften the surge in land values during the past years, but farm asset values remain strong."



By Aimee Nielson
Published on Dec. 1, 2022

Mix of organic and inorganic selenium may increase beef cow fertility

Selenium plays a significant role in beef cow fertility.



Selenium is an essential micronutrient for cattle. Photo by Matt Barton

LEXINGTON, Ky., –

Fertility is a driving factor for a sustainable and profitable cow-calf enterprise. Selenium plays a significant role in fertility, and in states like Kentucky and Tennessee, producers must supplement because their soil is selenium deficient. In an ongoing study at the University of Kentucky, researchers are pitting the industry-standard inorganic selenium against a 50/50 mix of inorganic and organic selenium to determine the most productive option.

“Selenium is an essential micronutrient that is incorporated into selenoproteins. These act as antioxidants, basically getting rid of free radicals, protecting the integrity of cells which allow them to function better,” said Phillip Bridges, associate professor in the UK College of Agriculture, Food and Environment Department of Animal and Food Sciences. “Animals can use organic or inorganic forms, but we typically supplement using an inorganic form. With this work, we are finding that the form of selenium supplemented can affect a variety of reproductive processes.”

For the study, Bridges supplemented sodium selenite as the inorganic form versus a 50/50 mix of sodium selenite and a yeast-derived organic form. They found animals that got the mixed form had increased progesterone levels by days six and seven of the estrous cycle and then throughout pregnancy. Bridges said the early increase in progesterone is perhaps the most intriguing part of the study.

“We’ve known for decades that increased early luteal phase progesterone stimulates uterine development, length of the conceptus and indicators of fertility,” Bridges said.

To start the study, animals received no selenium supplementation for 45 days. Bridges said the animals were not selenium-deficient after the 45 days, but levels did significantly decrease. For the next 45 days, he supplied the industry-standard inorganic selenium. The next 90 days, cattle received either inorganic or a mix of inorganic and organic selenium before researchers bred the animals and examined blood and tissues for differences.

Bridges said that by day 17 after breeding, he noticed an altered abundance of progesterone and interferon-tau-induced gene transcripts in the endometrium and an overall increase in conceptus length. He said scientists believe larger conceptuses may help ensure continued establishment and progression of a pregnancy.

Although the work is ongoing, Bridges believes using the 50/50 blend of organic and inorganic selenium will improve fertility at the production level. The grant-funded work will continue through early 2024.

“If you’re in an area where you have to supplement selenium, it appears the mixed form should increase fertility,” he said. “If you’re in a state like Kentucky, Tennessee or other cow-calf states, this is a great benefit to those beef cattle producers in terms of sustainability and profitability.”

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By Aimee Nielson
Published on Jan. 25, 2023

**Get started on your spring gardens!
Bring and trade seeds for the
upcoming growing season.**

Seed Swap

We will also be taking donations for our seed library that will be available at the library this upcoming spring!

**30 January 2023
starting at 1pm until
5pm**

**Corbin Public Library
215 Roy Kidd Ave
Corbin KY 40701**

**Contact the library at (606)528-6366 for more
information.**



**For weekly updates
tune in to
104.3 FM every Tuesday @
7:20am for the weekly
Ag Report
given by
Agriculture Agent
Stacy White
and
Horticulture Agent
Ben Prewitt**

Individual Assistance
The Whitley County Extension Office can assist individuals with questions on many topics. Do you have an animal that has a disease or an insect and you don't know what it is or what to do with it? A tree or weed you need identified or information on? We can help you find the answer to many of these questions. Feel free to contact us by phone (606-549-1430), email, or stop by the office.

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HIGH TUNNEL for ANNUAL CROPS

PLANTING CALENDAR

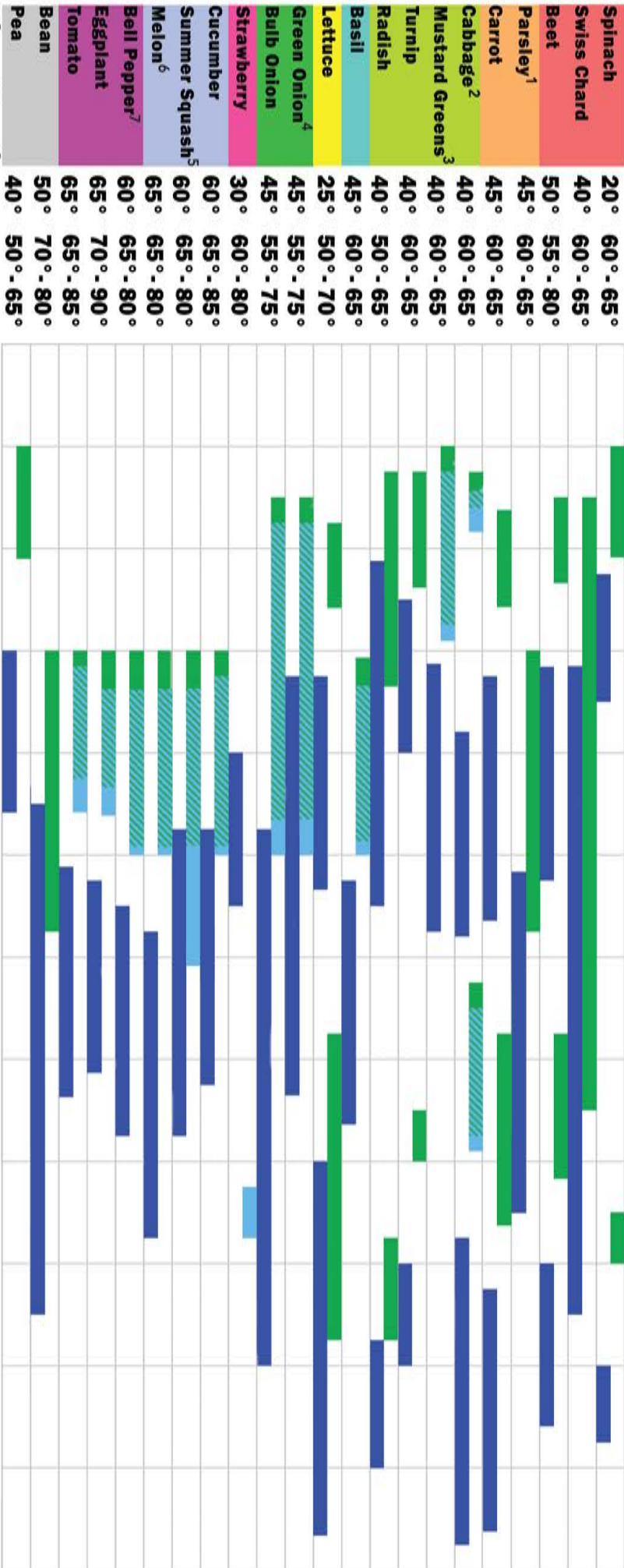


University of Kentucky
College of Agriculture,
Food and Environment
Cooperative Extension Service



AIR TEMPERATURE
MIN OPTIMAL

JAN 1 2 3 4 FEB 1 2 3 4 MAR 1 2 3 4 APR 1 2 3 4 MAY 1 2 3 4 JUN 1 2 3 4 JULY 1 2 3 4 AUG 1 2 3 4 SEPT 1 2 3 4 OCT 1 2 3 4 NOV 1 2 3 4 DEC 1 2 3 4

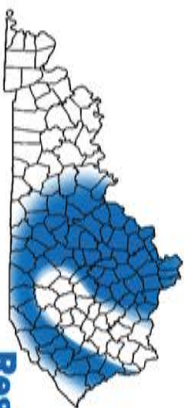


Plant Family

Beet Carrot Cole Crop Mint Sunflower
Garlic Rose Gourd Nightshade Pea

Alternative Crops

- 1) Cilantro, Dill
- 2) Chinese Cabbage, Pac Choy
- 3) Arugula, Collards, Kale
- 4) Leeks
- 5) Zucchini
- 6) Cantaloupe, Muskmelon, Honeydew, Watermelon
- 7) Sweet Pepper, Chile Pepper



Region 2



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