Ag & Natural Resources Of Cows and Plows



Franklin County 101 Lakeview Court Frankfort, KY 40601-8750 (502) 695-9035 Fax: (502) 695-9309 franklin.ca.uky.edu

FRANKLIN COUNTY COOPERATIVE EXTENSION AUGUST 2025 NEWSLETTER



Corn is Not Making your Days more Humid

Chad Lee, Ph.D.

Director, Grain and Forage Center of Excellence Extension Professor, Grain Crops Martin-Gatton College of Agriculture, Food and Environment (M-G CAFE) University of Kentucky

When it gets very hot and very humid, people see the fields of tall, green corn and point the finger at these fields. Corn is not making your days more humid unless you are walking in corn fields all day.

The very short answer is that corn will transpire around 4,000 to a peak of 8,000 gallons of water per acre per day. But, in these current conditions, there is about 160,000 gallons of water in the air already. So, any water coming from a field of corn is negligible to the total amount of water in the air.

Corn, like all plants, transpires water and oxygen to help maintain plant functions. Once the corn plant leaves cover the rows and intercept most of the sunlight, most water loss from the cornfield comes from the transpiration. Water loss from transpiration is influenced by water availability in the soil, water amount in the plant, relative humidity (which is water in the air), air temperature, cloud cover and windspeed.

If the relative humidity (RH) is high, then transpiration (water loss) from the plants is low. Some estimates in Nebraska place peak water loss from a cornfield at about 0.33 inches per acre per day.

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That equals 8,960 gallons of water per acre per acre per day for about 20 days. Other estimates east of the Missouri River suggest corn will transpire about 4,000 gallons per acre per day. If RH is 50%, and corn plants are at maximum water demand, corn in the region likely loses closer to the 5,000 gallons per day.

While that is a large amount of water for any household to use in a day, it is very small number compared with what is in the air already.

We can calculate the water in the air by calculating the weight of dry air above one acre, using a psychrometric calculator, and using 86 F and 50% RH at our elevation. With these parameters in the Bluegrass Region of Kentucky there is about 0.0136 pound of water (H2O) per pound of dry air. That comes to about 160,000 gallons of water above one acre, whether that acre is corn, a football field, or houses in town. See the resources at the end of this publication to double check this math and work out scenarios where you live.

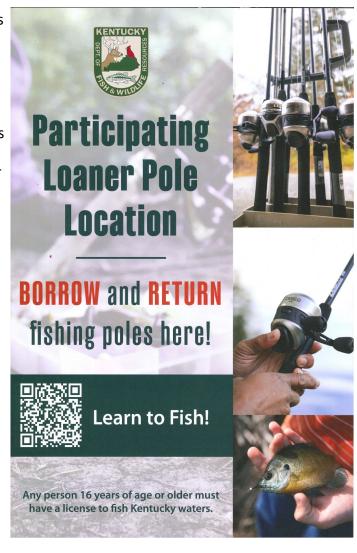
To add more perspective to the volumes of water being discussed, 1-inch of rainfall is 27,184 gallons per acre. The Kentucky Mesonet at Spindletop Farm in Lexington is at 3.1 inches of rainfall for July, which is 84,270 gallons of water per acre that has fallen to soil. If the atmosphere is holding 160,000 gallons of water at 50% RH and 86 degrees Fahrenheit, and all that water decided to fall to earth in a day, that is equivalent to about 5.9 inches of rainfall per acre.

An acre of corn could remove 35,000 pounds of carbon dioxide (CO2) per acre and release about 25,000 pounds of oxygen (O2) per acre over the growing season.

If someone walks into a cornfield, that corn will block airflow. As that corn transpires, a person will perspire. Inside of that cornfield, it will feel more humid. But, outside of the cornfield in this region of the country, it is unlikely that corn (or soybeans, sudangrass, or other crops fully closing the rows) will transpire enough water to dramatically affect the humidity in the neighborhoods, towns, and cities.

Important Numbers

Raising Hope (Suicide & Crisis Lifeline)	988	
Franklin Co Extension Office	695-9035	
Conservation District	352-2701	
Farm Service Agency (FSA)	859-873-3411	
NRCS	695-5023	
Dead Animal Removal	875-8760	
State Rd. Dead Animal Removal	564-6998	
Unwanted Pesticide Removal	1-800-205-6543	
Fish and Wildlife	1-800-585-1549	
Franklin County Wildlife Biologist	859-879-8411	
(All numbers 502 area code unless otherwise noted)		



2025 Horses & Horsemen:

Farm & Facilities Expo

Tuesday, September 16th



RSVP to Bourbon County Extension Office: 859-987-1895

Schedule:

5:00: Registration and Trade Fair

6:00: Dinner

6:15: Welcome & Farm Overview

Arena footing and maintenance - Dr. Coleman, UK Equine Extension Specialist

Pasture Walk — Central KY ANR Agents

Heavy Use Areas & Farm Infrastructure— Dr. Bob Coleman

Horsemanship Demo - Mike & Chris Stokley

Location:
Mike & Chris Stokley

Big Creek Livestock 1310 Thatchers Mill Rd Paris, KY 40361





Ag Equine Programs
College of Agriculture, Food and Environment

Cooperative Extension Service

Agriculture and Natural Resources Family and Consumer Sciences 4-H Youth Development Community and Economic Development MARTIN-GATTON COLLEGE OF AGRICULTURE, FOOD AND ENVIRONMENT

It is Education of Section (Construction Construction Con



Disabilities accommodated with prior notification

All About Goats! Webinar

JOIN EXTENSION AND INDUSTRY PROFESSIONALS FOR THE FALL 2025 SERIES



Goat Health and Care Sept. 22

During this session, Extension Specialist, Dr. Brady Campbell, will review proper care for goats of all ages and explain how to help keep them healthy and continue production.

Farm Business and Management Oct. 6

Extension Specialist, Eric Richer, and Extension Educator, Pressley Buurma, will help guide participants in farm management strategies and provide options for enterprise budgeting and record keeping as it relates to goat production.

Goat Processing Oct. 20

Throughout this presentation, Extension Specialist, Dr. Lyda Garcia, will explain the cuts of a carcass and how to process a goat at home.

Livestock Marketing

Nov. 3

Join us as Extension Specialist, Garth Ruff, discusses the ins and outs of the goat market. He will also discuss how to market goats to fill the current wants and needs of the customers.

Hay and Grain Production Nov. 17

Throughout this session, Extension Educator, Jordan Penrose, will present tips and tricks on hay and grain production for goats as well as what type of crops would work best for your production system.

Coyote Management

Dec. 1

This session is going to focus on how to manage interactions between coyotes and goats. Experts will also explain the current status of coyote research in Ohio.

Open Forum: Ask Me Anything Dec. 15

Have a burning question that was not answered during one of our past webinar sessions? Join Extension Educators and Specialists to get your questions answered!

Webinars are hosted via Zoom (7-8 p.m. EST). Register at:

go.osu.edu/allaboutgoats25



Ohio State University Extension is part of The Ohio State University College of Food, Agricultural, and Environmental Sciences.

Woodford County Farm Service Agency is Accepting Emergency Conservation Program Applications

(Versailles, KY), July 8, 2025- U.S. Department of Agriculture (USDA) Farm Service Agency (FSA) Executive Director CED Jimmy Chambers today announced that FSA is accepting applications for the Emergency Conservation Program (ECP) to address damages from the Severe Storms that occurred on April 4th, 2025, In Anderson and Franklin Counties. ECP Signup will begin on July 9th, 2025, and end on August 8th, 2025.

The Approved ECP practices under this authorization includes List Eligible practices:

EC1 Removing Debris from Farmland; EC2 Grading, Shaping, Releveling, or Similar Measures; EC3 Replace/Restoring Permanent Fencing

ECP assists producers with the recovery cost to restore the agricultural land to pre-disaster conditions. Approved ECP applicants may receive up to 75 percent of the cost of approved restoration activity. Limited resource socially disadvantaged and beginning farmers and ranchers may receive up to 90 percent cost share.

"Dealing with natural disasters is never easy, especially when you have to consider the health and safety of livestock, but it's important for producers to call before they take any action," said Chambers.

Producers with damages from such events must apply for assistance prior to beginning reconstructive work. FSA National Environmental Policy Act (NEPA) and environmental compliance review process is required to be completed before any actions are taken. Submitting an application after reconstructive work has been completed may not qualify for ECP.

FSA County Committees will evaluate applications based on an on-site inspection for the damaged land, taking into consideration the type and extent of the damage. As on-site inspection does not guarantee that cost-share funding will be provided.

The 2018 Farm bill increased the payment limitation for ECP to \$500,000 per Disaster. The use of ECP funds is limited to activities to return the land to the relative pre-disaster condition. Conservation Concerns that were present on the land prior to the disaster are not eligible for ECP assistance.

For More information on ECP, Please Contact the Woodford County FSA Office at 859-873-3411 Extension 2 or visit Farmers.gov/recover.

Jimmy Chambers
County Executive Director
Woodford County Farm Service Agency



University of Kentucky Plant Pathology Extension Publications for Organic Vegetable Producers

The University of Kentucky Plant Pathology Extension Team for Specialty Crops has put together numerous resources for commercial organic producers. The following details the resources available for plant disease management in organic vegetable production.

Cultural Calendars for Commercial Vegetable Production

Beans <u>PPFS-VG-42</u> Broccoli, Cauliflower & Other

Broccoli, Cauliflower & Other Cole Crops PPFS-VG-41

Cucumbers, Melons & Squash PPFS-VG-40

Tomato & Peppers PPFS-VG-39

Organic Commercial Spray Schedules for Vegetable Field Production

Beans PPFS-VG-50

Broccoli, Cauliflower & Other Cole Crops PPFS-VG-51

Cucumber PPFS-VG-45

Melons PPFS-VG-49

Peppers PPFS-VG-44

Pumpkin PPFS-VG-47

Summer Squash & Zucchini PPFS-VG-46

Tomatoes PPFS-VG-43

Winter Squash PPFS-VG-48

Disease resistant vegetable cultivars can be found in the Vegetable Production Guide for Commercial Growers <u>ID-36</u>

Small Acreage & Backyard IPM Guides (for smaller scale or hobby organic growers)
Bean & Pea IPM Guide for Small Acreage & Backyard Production PPFS-VG-22
Cole Crop IPM Guide for Small Acreage & Backyard Production PPFS-VG-23
Cucurbit Crop IPM Guide for Small Acreage & Backyard Production PPFS-VG-19
Tomato & Pepper IPM Guide for Small Acreage & Backyard Production PPFS-VG-21

Department of Plant Pathology Extension Publications page contains additional resources for vegetables, fruit, and ornamentals. Many publications, such as cultural calendars and disease profiles are not labeled as organic but contain important and applicable information for organic producers. https://plantpathology.ca.uky.edu/extension/publications

By: Kim Leonberger, Plant Pathology Extension Associate, and Nicole Gauthier, Plant Pathology Extension Specialist



FEEDER CALF GRADING SCHOOL

Join us for an engaging feeder calf program where you will gain experience in grading and evaluating feeder calves. Learn key strategies to improve your marketing success and maximize profits.

REGISTER NOW

September 8th

6:00pm at Bluegrass Stockyards

FOR MORE INFORMATION OR TO RSVP



Call your county Extension Office



4561 Iron Works Pike, Lexington, KY 40511

Please RSVP by Friday August 29th

Cooperative Extension Service MARTIN-GATTON COLLEGE OF AGRICULTURE, FOOD AND ENVIRONMENT Educational programs of Kentucky Cooperative Extension serve all people regardless of economic or social status

Agriculture and Natural Resources Family and Consumer Sciences 4-H Youth Development Community and Economic Development Educational programs of Kentucky Cooperative Extension serve all people regardless of economic or social status and will not discriminate on the basis of race, color, ethnic origin, national origin, creed, religion, political belief, see, sexual orientation, gender identity, gender expression, pregnance, marital status, genetic information, age, verteran status, physical or mental disability or reprisal or retaliation for prior civil rights activity. Reasonable accommodation of disability may be available with prior notice Program information may be made available in languages other than English University of Kentucky State University, U.S. Department of Agriculture, and Kentucky Counties, Cooperating,







Presented by: Franklin County Farm Bureau, Franklin County Extension Office, & Franklin County Conservation District

Special THANK YOU to our farm host: Kentucky State University

Harold R. Benson Research Farm

THANK YOU to our 2025 sponsors:



























Survey

Comments or Suggestions? Please take the survey!



https://tinyurl.com/mr2m7ath

If you have any comments or suggestions for future Farm-City Field Days, contact any of the committee members or Franklin County Cooperative Extension Agriculture and Natural Resources Agent, Keenan Bishop at (502) 695-9035 or email, kbishop@uky.edu.

Farm City Field Day 2025

The 65th annual Farm City Field Day was held on the Kentucky State University Harold R. Benson Research Farm on Mills lane. This years tour stops included Urban Agriculture, Agronomy, Back Yard Poultry, 1/4 Acre Garden, Pawpaws, Beef Cattle, Goats, Honey Bees, Pond/Raceways, Ethic Vegetables and Soil Health. This years event meal and event generated 223 pounds of compostable material and 12 pounds if recyclables.

Did you know?

Kentucky State University has 10 Specialist who provide assistance across Kentucky.

Alethea Bernard - State Specialist in Health Equity

Lynsey Crumbie - State Specialist in Entrepreneurship

Janelle Hagar - State Specialist in Aquaponics

Jessica Marquez - State Specialist in Urban Community and Resource Development

Adriana Palmer - State Specialist in Community Resource Leadership Development

Alan Patterson - State Specialist in Disaster Education

Joelle Robinson - Senior State Specialist in Human Nutrition

Jeremy Sandifer - State Specialist in Agricultural Technology for Small Farms

Emily Smith - State Specialist in Disaster Health and Wellness

Kenneth Thompson - State Specialist in 4H Youth Development

Kentucky State University has Extension Agents in:

Barren, Carlisle, Crittenden, Daviess, Edmonson, Franklin, Hancock, Hardin, Jefferson, Magoffin, Trigg, Warren, Wayne, & Whitley Counties.



The Franklin County Cattlemen's Association

was proudly represented at the 65th Annual Farm City Field Day! From the farm to the table, this crew truly does it all. A big shoutout to

our legendary Grill Crew for firing up the grills and making tonight's delicious meal possible! And a huge thank you to our Junior Cattlemen's who served with smiles and represented the next generation of Agriculture!



July 1, 2025 to June 1st, 2026

Contact the office at 502-352-2701 for more information

Franklin County Junior Cattlemen's Association

The Franklin County Jr. Cattlemen have been busy this summer! Besides helping out with Farm City Field day, they also helped serve food at the Franklin County Fair. Congratulations to the members who entered into the exhibit hall and showed this year at the County Fair!



AG & NATURAL RESOURCES



KENTUCKY MECHANICAL WEED CONTROL FIELD DAY

11

UK Horticulture Research Farm

Lexington, KY

SEPT 23 8 AM - 4 PM EST

"Investing in new equipment without seeing it in action is daunting. This was a great opportunity to get up close and learn about the finer points of various tools."

-KY Farmer, Midwest Mechanical Weed Control Field Day





Kentucky Beef Network Survey



Help us plan for the future.....

This survey focuses on the adoption of management practices across the beef industry, along with producers' motivations for and against adopting certain practices. It is open to all types of beef operations, and responses are completely confidential. Your pariticipation in the survey will help guide the development of future Kentucky Beef Network and University of Kentucky Extension programs at the local, state, and regional levels.

As an incentive, if at least 15 producers from your county complete the survey, we will provide your county agent with a customized report that summarizes responses from your county's participants to assist with future programming and outreach development.

Important: This is a different survey than the one we distributed last year. While our previous survey focused on specific production topics, this year's version takes a

broader look at management decisions and the factors influencing them.

Take Survey: https://uky.az1.qualtrics.com/jfe/form/SV cHizXSfCRzZqDNI



Testing provides nutritional value of hay to assist in balancing rations, and can result in reduced feed cost, increased animal performance, and information to improve forage stands.

Free analysis to determine hay quality and livestock needs.

Call your local Extension Office to sign up.



BACKYARD CONSERVATION PROGRAM
Urban Cost Share Program

July 1, 2025 to June 1, 2026

Raised Garden Beds, Rain Barrels, Compost Bins, Pollinator Gardens, Beehives and Bat Houses

- First come, first serve.
- Franklin County Residents only
- One application per household
- 50% cost share up to \$500 maximum

Must have approval before you begin project

Franklin County Conservation District 103 Lakeview Court Frankfort, KY 40601 502-352-2701

fccd103@gmail.com



September 29

HERBICIDE WORKSHOP







What? When? Why?

Location

Harold R. Benson Research & Demonstration Farm Frankfort, KY

Speaker

Joe Omielan University of Kentucky

Date

Tuesday, August 19th 9AM - 1PM

Join KSU Forestry and Natural
Resources and UK's Joe
Omielan for a morning learning
about the specifics of
herbicide selection.

This workshop will include indoor and outdoor sessions and CEUs are available to participants. Registration begins at 8:30AM and includes lunch. Please register by August 15.



To register, scan the QR code or email anna.rogers@kysu.edu for a link.

Reasonable accommodations for individuals with disabilities as well as language access services such as interpretation or translation of information will be provided free of charge upon request. Contact us by August 1 if you need reasonable accommodations to participate. Kentucky State University is an equal opportunity provider.





KENTUCKY SELLING FARMER TAX CREDIT

KENTUCKY SELLING FARMER TAX CREDIT ENCOURAGES CONTINUED USE OF AGRICULTURAL LAND FOR FARMING



Farmers wanting to sell agricultural land and assets may be eligible for a Kentucky income tax credit up to 5% of the purchase price of qualifying agricultural assets, subject to calendar year and lifetime credit caps.

- Sales to beginning farmers may qualify for enhanced tax credit incentives.
- Sales involving immediate family members do not qualify for tax credit consideration.

Prior to completing a sale of agricultural assets, applicants should review the Kentucky Selling Farmer Tax Credit Guidelines for more detailed program information and eligibility requirements.

HOW DO I APPLY?

Visit

newkentuckyhome.ky.gov/

Entrepreneurship/KSFTC

for complete details.
For more information or other assistance for small businesses in Kentucky, please visit newkentuckyhome.ky.gov/entrepreneurship, email cedsbsd@ky.gov or call 800-626-2930.



\$50K
IN TAX CREDITS
PER CALENDAR
YEAR



OAK Farmer Field Day

Year-Round Earnings, Creative Diversification and Organic Certification

JOIN THIS FIELD DAY TO:

- Delve into production of one acre of certified organic vegetables, cut flowers
- Tour the plant germination room, shipping-container cold storage/pack shed and event barn (in progress)
- Learn 4Js' recordkeeping and practice efficiencies for organic certification
- Hear the farm's marketing strategies for Community Supported Agriculture, farmers markets, value-added products and creative market development



Free event Registration required oak-ky.org/field-days or 502-709-8732



4 Js Family Farm

CORNISHVILLE, KY

AUGUST 26

9 am - 12 pm ET

RECIPE



Zippy Zucchini Cakes

2 cups shredded 1 tablespoon olive oil zucchini 1/2 cup all purpose flor

2 large eggs % cup all–purpose flour 2 large eggs % cup whole wheat

1 egg white flour

1/4 cup skim milk 2/3 cup corn meal

tablespoon olive oil 1 cup shredded Mozzarella

cheese
% teaspoon

1/2 teaspoon salt

1/4 teaspoon dill

1/2 teaspoon black pepper

- Combine the zucchini, eggs, egg white, milk and olive oil.
- 2. Stir until just mixed.
- 3. Add the remainder of ingredients into zucchini mixture. For added zip, substitute Pepper Jack cheese for the Mozzarella, add 1 tablespoon chopped jalapeno pepper or ½ teaspoon crushed red pepper flakes.
- 4. Stir until moistened.
- **5. Spoon** the batter onto a lightly greased griddle or large non-stick skillet to form 2 inch cakes.

- Cook 3 to 4 minutes or until the edges are lightly browned.
- **7. Turn** and cook on the other side for 3 to 4 minutes. **Serve.**

Yield: 10, 2 inch cakes.

Nutrition Analysis: 80 calories, 2 g fat, 0 g sat.fat, 30 mg cholesterol, 140 mg sodium, 10 g carbohydrate, 1 g dietary fiber, 1 g sugar, 4 g protein.



Buying Kentucky Proud is easy. Look for the label at your grocery store, farmers' market, or roadside stand.



SAVE THE DATES:

August 14-24 Kentucky State Fair

September 8 Feeder Calf Grading School

September 16 Equine Facility Expo

September 20 Beef Bash

September 23 Weed Control Field Day

2025 Livestock Events at Lakeview Park

September 27- Rabbit Show

JOIN US ALL YEAR FOR THIRD THURSDAY THING

August 21st: Agri-technology & Vertical Farming

September 18th: Horticulture & Urban Agriculture

October 16th: Small Ruminants

November 20th: Small, Limited-Resource, Minority

Farmers Conference

Keenan Bishop, County Extension Agent for Agriculture and Natural Resources Education

Keena R Bisty



Cooperative Extension Service

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

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Educational programs of Kentucky Cooperative Extension serve all people regardless of economic or social status and will not discriminate on the basis of race, color, ethnic origin, national origin, creed, religion, political belief, sex, sexual orientation, gender identity, gender expression, pregnancy, marital status, genetic information, age, veteran status, physical or mental disability or reprisal or retaliation for prior civil rights activity. Reasonable accommodation of disability may be available with prior notice. Program information may be made available in languages other than English. University of Kentucky, Kentucky State University, U.S. Department of Agriculture, and Kentucky Counties, Cooperating.



