

Ag & Natural Resources OF COWS AND PLOWS

FRANKLIN COUNTY COOPERATIVE EXTENSION AUGUST 2023 NEWSLETTER



Franklin County
101 Lakeview Court
Frankfort, KY 40601-8750
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Buy/ Feed Hay to Retain Nutrients

Greg Halich, UK Livestock/Forages and Grain Crops Management

Most cattle farms in Kentucky will feed 2-3 tons of hay per cow in an average winter. This amounts to approximately 72-108 lbs N, 24-36 lbs P, and 104-156 lbs K cycling through the cows. In theory, around 90% of these nutrients could be retained on the farm to feed the next year's crop of hay and pasture. In practice, we have cattle farms that need constant applications for P and K, as well as N if they have not learned how keep good stands of legumes in their pastures and hayfields.

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Confinement feeding is the primary reason for this loss of nutrients, whether in a sacrifice area, feeding pad, or conventional feeding barn. "How could this be?" many cattle farmers will ask? "We scrape up every last bit of manure from our feeding pads and spread it back on our pastures and hayground each spring. We must be getting the bulk of the benefits of those nutrients".

Or not. Approximately 90% of the potassium, and 67% of the nitrogen that comes out the back end of a cow is in the urine. Unless you have a deep, high-carbon source such as sawdust on that concrete pad to soak up and hold the urine, most of it will be lost. If you have your doubts, here is an on-farm experiment you can conduct: Fill a 100 gallon tank with water and dump it out on your concrete feeding pad, wait 30 seconds, and then see how much of the water you can scoop up with your front-end loader. If you capture more than 5 gallons you just set the Kentucky Olympic record.

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Still don't believe it? A Saskatchewan analysis compared feeding directly on pasture where bales were fed in a checkerboard fashion to frozen drylot feeding which mimicked a feeding pad. Nutrient capture and subsequent forage growth were compared in the two systems where the manure from the same number of cows was spread back onto an equivalent amount of pasture for the drylot system. Soil inorganic N (easily available to plants) was 187 percent higher and extractable potassium was 185 percent higher in the direct-fed pasture system. Subsequent forage growth over the next two years was 127 percent higher and protein levels of this forage were 74 percent higher in the direct-fed pasture system. The results from this research indicated most of the nutrients from confinement feeding are being lost.

Unrolling hay or bale grazing are the two best ways to retain nutrients on your farm from winter hay feeding. The Saskatchewan direct-fed system used bale grazing, but unrolling hay would have had a similar effect. I prefer bale grazing due to the substantial reduction in equipment hours needed as well as keeping equipment off pastures when they are wet. But unrolling hay is exponentially preferred overfeeding in sacrifice lot, feeding pad, or feeding barn. I have been bale grazing on one of my farms for over a decade now and have never had to apply a pound of commercial fertilizer. Ed Rayburn, Extension Forage Specialist for West Virginia University has been bale grazing for two decades on his hayfields and has maintained soil test levels for P and K without adding one pound of commercial fertilizer. For the basics of bale grazing see the "[Feed Hay the Rotational Grazing Way](#)" article in Hay and Forage Grower or watch the [recorded presentation](#).

The right time is **now.**
The right way is **BQCA.**

The Kentucky Beef Network and University of Kentucky Extension are offering **FREE BQCA CERTIFICATION** online or through your county extension office **September 1st** through **September 31st, 2023.**



ANTIBIOTIC MARKETING CHANGES COMING ON JUNE 11, 2023

Over the counter (OTC) medically important antibiotics for animals will require a prescription from your veterinarian.

The Food and Drug Administration (FDA) Center for Veterinary Medicine Guidance for Industry (GFI) #263 seeks to improve antibiotic stewardship by transitioning over the counter medically important antibiotics to prescription only.

These medications will require a prescription from a licensed veterinarian for legal use and livestock producers will need an established veterinarian-client-patient relationship (VCPR) before purchasing prescription antibiotics.



For more information visit
[NCBA.org/antibiotics](https://www.ncba.org/antibiotics) or scan the QR code.

Conservation Corner

Updates from the Franklin County Conservation District



August 1st, 2023 to June 1st, 2024

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

MONEY FOR FARM IMPROVEMENTS



Eligible Investment Areas:

- Agricultural Diversification*
- AgTech & Leadership Development*
- Large Animal - Small Animal*
- Farm Infrastructure*
- Fencing & On-Farm Water*
- Forage & Grain Improvement*
- Innovative Ag. Systems*
- On-Farm Energy*
- Poultry & Other Fowl*
- Value Added & Marketing*

Administered by
Franklin Co. Cattlemen's Assoc.
101 Lakeview Court
Frankfort, KY 40601

<https://www.facebook.com/FranklinCountyKYCooperativeExtension>

COUNTY AGRICULTURAL INVESTMENT PROGRAM (CAIP)

Applications are available for Franklin County's CAIP to assist farmers in making important farm investments.

Application Period:

August 18 through September 8, 2023

No applications will be accepted before August 18th or after 4:00 pm on September 8th

Application Availability:

**Franklin County Extension Office
Monday – Friday (8:00 a.m. – 4:00 p.m.) or online:**

For More Information:

Contact Crystal Harrod at (502) 330-5084 or email crystal.harrod@yahoo.com

All applications are scored, based on the scoring criteria set by the Kentucky Agricultural Development Board.

Grazing Conference

Low Stress Livestock Handling for Serious Graziers

October 31, 2023

Elizabethtown

Hardin County Extension Office

7:30 AM - 3:30 PM CDT

November 1, 2023

Lexington

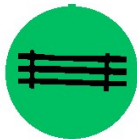
Fayette County Extension Office

7:30 AM - 3:30 PM EDT



Reducing Livestock Stress in Grazing Systems

Curt Pate, Curt Pate Stockmanship



Fencing for Multi-Species Grazing

Lewis Sapp, Stay-Tuff Fence



Designing Flexible Watering Systems

Jeff Lehmkuhler, University of Kentucky



Designing Livestock Handling Facilities for Existing Structures

Chris McBurney, McBurney Livestock Equipment



Local Producers and Spokesperson Contest



Optimizing Resources with Multi-Species Grazing

Greg Brann, Greg Brann Consulting

For more information please visit KFGC.ORG

Our speakers...

Curt Pate is a nationally renowned expert in low stress livestock handling. His focus on reducing stress in grazing systems makes him unique.

Lewis Sapp is a nationally recognized fencing expert with extensive experience in both temporary and permanent fencing systems.

Jeff Lehmkuhler is an award winning extension educator with more than 20 years of experience in designing flexible watering systems.

Chris McBurney has over 25 years of experience in designing, fabricating, and installing livestock facilities throughout the eastern United States.

Greg Brann is well known for his extensive knowledge of grassland ecosystems, grazing management, and mixed species grazing.

Tickets: \$45 Advance / \$60 Onsite / \$15 Students

Register Online:

Elizabethtown-<https://2023-KY-Grazing-Conference-Hardin>

Lexington-<https://2032-KY-Grazing-Conference-Fayette>

Register by Email: info@kfgc.org

Register by Phone: 513-470-8171

Register by Mail: Christi Forsythe, PO Box 469, Princeton, KY 42445

Make Checks payable to: **KFGC**

Name: _____

Street: _____

City: _____

State: _____ Zip Code: _____

Cell Phone: _____

Email: _____

Number of participants _____ x \$45per participant = _____ Total Amount

Names of additional Participants: _____



Organized and Sponsored by the Kentucky Forage and Grassland Council, UK Cooperative Extension Service, and the Master Grazer Program

This program is designed for producers and agricultural professionals to learn the newest fencing methods and sound fencing construction through a combination of classroom and hands-on learning

WHEN: November 7-Scott County, KY
November 9-Caldwell County, KY

WHERE: Scott County Extension Office
1130 Cincinnati Road
Georgetown, KY 40324

Kentucky Soybean Board Office
1000 Highway 62 West
Princeton, KY 42445



COST: \$35/participant -- includes notebook, refreshments, safety glasses, hearing protection, and catered lunch

Registration DEADLINE: 1 week prior to workshop

ONLINE Registration with Credit Card:

____ Georgetown, KY [Register for KY Fencing School in GEORGETOWN](#)
____ Princeton, KY [Register for KY Fencing School in PRINCETON](#)



Registration by U.S. Mail: Christi Forsythe
UK Research and Education Center
P.O. Box 469
Princeton, KY 42445

Name: _____

Street: _____

City: _____ State: _____ Zip code: _____

Email: _____ Cell Phone: _____

Number of participants _____ x \$35 per participant = _____ **Total Cost**



Make CHECKS payable to: KFGC

For more information contact Krista Lea at 270-625-0712 or Christi.Forsythe@uky.edu

2023 Kentucky Fencing Schools



2023 Kentucky Fencing School Agenda

7:30 Registration and Refreshments

8:15 Welcome and Overview of the Day – *Chris Teutsch, UK*

8:30 Fencing Types and Costs - *Morgan Hayes, UK*

9:00 Fence Construction Basics – *Eric Miller and Payton Rushing, Stay-Tuff*

- Perimeter fences vs. cross fences
- Fencing options on rented farms
- Proper brace construction
- Line posts and fence construction

9:45 Break – visit with sponsors and presenters

10:15 Electric Fencing Basics - *Jeremy McGill, Gallagher*

- Proper energizer selection and grounding
- Proper high tensile fence construction and wire insulation
- Electric offset wires for non-electric fences
- Underground wires and jumper wires

11:00 Innovations in Fencing Technologies - *Josh Jackson, UK*

- Wireless fences, fence monitoring, fence mapping

11:30 Overview of Kentucky Fence Law - *Clint Quarles, KDA*

12:15 Catered Lunch - visit with sponsors and presenters

1:00 Hands-on Fence Building

- Safety, fence layout, and post driving demo - *Jody Watson and Tucker LaForce, ACI*
- H-brace construction - *Jeremy McGill, Gallagher & Eric Miller and Payton Rushing, Stay-Tuff*
- Knot tying, splices, and insulator installation - *Jeremy McGill, Gallagher & Eric Miller & Payton Rushing, Stay-Tuff*
- Installation of Stay-Tuff Fixed Knot Fence - *Eric Miller and Payton Rushing, Stay-Tuff*
- Installation of High Electrified Tensile Fencing - *Jeremy McGill, Gallagher*

4:30 Questions, Survey and Wrap-up



2023 Farm City Field Day



Farm City Field Day
 A Waste Free Event
Recycling: 60 Pounds
Compost: 59 Pounds
Trash: 24 Pounds
83 % of WASTE
Diverted from the landfill!

The 63rd Franklin County Farm City Field Day was July 13 in the Bridgeport community off Evergreen Road. Special Thank You to this years host farms, Firmly Rooted Flowers and the Harrod Family Farm. We had over 300 people in attendance to learn about these farms and enjoy lunch!

To make this a great event, the Farm City Field Day Committee has a goal to have 0% of the waste created enter the landfill. This was done in part by using recyclable and compostable products, such as the plates, forks and napkins used. This year, we were able to recycle and compost 119 pounds of waste!

Firmly Rooted Flowers is a seasonal specialty cut flower farm operated by a 5th generation farm family. The Harrod Family Farm is a beef cattle operation of multiple families and generations as well.

Franklin County Junior Cattlemen’s Association



COME ONE, COME ALL!

**FRANKLIN COUNTY
JUNIOR CATTLEMEN**

**STATE FAIR
SATURDAY, 8/19**

**IF INTERESTED, LET
CRYSTAL KNOW BY
8/15.**

The Franklin County Junior cattlemen’s Association has had a busy summer! They have toured the Harrod farm and volunteered at both the Franklin County Dairy Show and Farm City Field Day.

The Junior Cattlemen's Association is accepting new members, and those interested in joining may contact Crystal Harrod at 502-330-5084 or [crystalharrod.yahoo.com](mailto:crystalharrod@yahoo.com).

BEEF BASH 2023

DATE: Thursday, September 21, 2023
WHERE: University of Kentucky
 C. Oran Little Research Center
 1051 Midway Rd.
 Versailles, KY 40383
TIME: Registration starts at 1:30 PM EST
 Programs start at 2:00 PM EST

MAKE PLANS TO JOIN US!

VISIT WITH:
 COMMERCIAL EXHIBITORS
 EDUCATIONAL EXHIBITS &
 DEMONSTRATIONS
 UK PERSONNEL & ADMINISTRATORS
 KCA LEADERSHIP & STAFF

Tickets are \$15 and includes meal. To Pre-register, go to [Eventbrite.com](https://www.eventbrite.com) and search Beef Bash 2023



For More Information Visit:
<https://www.facebook.com/KyBeefIRM/>

2023 Kentucky Beginning Grazing School

Helping livestock producers improve profitability with classroom and hands-on learning

When: September 27-28, 2023

Where: Woodford County Extension Office
184 Beasley Drive, Versailles, KY 40383

Cost: \$60/Participant – includes all materials, grazing manual, grazing stick, fencing kit, morning refreshments, and lunch both days

Program Registration: DEADLINE is September 22, 2023

Online Registration with CREDIT CARD AT:

<https://www.eventbrite.com/e/2023-kentucky-beginning-grazing-school-fall-tickets-666511101647?aff=oddtcreator>

Registration by U.S. Mail with CHECK:

Christi Forsythe
UK Research and Education Center
348 University Drive, Princeton, KY 42445

Name: _____

Street: _____

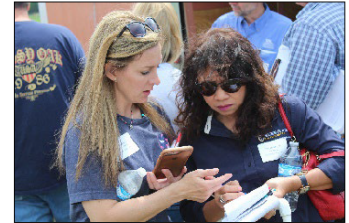
City: _____

State: _____ Zip Code: _____

Cell Phone: _____

Email: _____

Number of participants _____ x \$60 per participant = _____ Total Amount



Please make checks payable to KFGC



2023 Kentucky Beginning Grazing School

Helping livestock producers improve profitability with classroom and hands-on learning

Emphasis on ruminants - beef, dairy, sheep, & goats

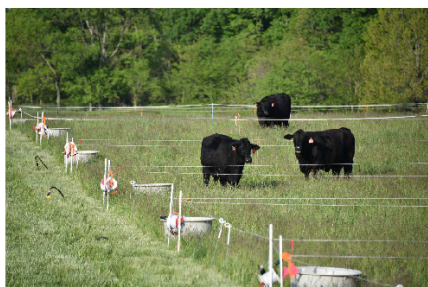
Wednesday, September 27, 2023

Thursday September 28, 2023

MEET AT WOODFORD COUNTY EXTENSION OFFICE EACH MORNING

- 7:30 Registration and refreshments
- 8:00 Introduction of staff and participants
- 8:15 Benefits of rotational grazing-Dr. Ray Smith, UK
- 8:35 Introduction to soils-Dr. John Grove, UK
- 9:05 Grazing math concepts/introduce field exercise-Dr. Katie VanValin, UK
- 9:35 Break & travel to field demonstration area
- 10:00 Hands on soil sampling-John Grove
- 10:20 Portable/seasonal water systems-Dr. Jeff Lehmkuhler, UK
- 10:40 Methods to assess pasture production and determine stocking rate-Dr. Ray Smith, UK
- 11:00 Hands-on: setting up small paddocks for grazing demonstrations-All Instructors
- 12:15 Lunch at farm (Woodford County Cattlemen)
- 1:00 Travel to local farm
- 1:30 Tour of local farm
- 3:00 Travel to teaching facility
- 3:30 Using electric fencing to control grazing-Jeremy McGill, Gallagher
- 4:00 Forage species for a comprehensive grazing system-Dr. Chris Teutsch, UK
- 4:30 Discussion and adjourn

- 7:30 Refreshments
- 8:00 Forage plant growth-Dr. Ray Smith, UK
- 8:30 Meeting the nutritional needs of grazing livestock-Dr. Jeff Lehmkuhler, UK
- 9:00 Financial assistance for improved grazing infrastructure-Adam Jones, NRCS
- 9:30 Break
- 10:00 Fencing types and costs-Dr. Morgan Hayes, UK
- 10:30 Fundamentals of laying out a grazing system-Dr. Jeff Lehmkuhler, UK
- 11:00 Small group project: grazing system design-Adam Jones, NRCS
- 12:00 Lunch (Woodford County Cattlemen)
- 1:00 How I made grazing work on the farm-Todd Clark, Clark Family Farm
- 1:30 Rejuvenating run-down pastures-Dr. Chris Teutsch, UK
- 2:00 Grazing myths that impact profitability-Greg Halich, UK
- 2:30 Complete grazing school evaluation
- 2:45 Travel to field demonstration area
- 3:00 Field exercise: observe grazed paddocks and hear reports from each group
- 3:30 Hay sampling and analysis-Jimmy Henning, UK
- 4:00 GPS and frost seeding demonstration-Brittany Hendrix
- 4:30 Final comments, diplomas, and adjourn



Be sure to follow our Facebook page for all the up-to-date information and articles.
@FranklinCountyKyCooperativeExtension

SAVE THE DATES:

August 17-22	Kentucky State Fair, Louisville Exposition Center
August 18	2023 CAIP Applications Available, Extension Office /Online
August 29	FC Cattlemen’s 2023 CAIP Informational meeting
August 30	KSU Summer Pasture Walk, KSU Farm
September 8	CAIP Application Deadline
September 12	Equine Equipment & Facilities Field Day, Mercer County
September 23	Rabbit Show, Lakeview Park Livestock Pavilions
September 27-28	Beginning Grazing School



Keenan R Bishop

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



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Extension Service**

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MARTIN-GATTON COLLEGE OF AGRICULTURE, FOOD AND ENVIRONMENT

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University of Kentucky, Kentucky State University, U.S. Department of Agriculture, and Kentucky Counties, Cooperating.
Lexington, KY 40506




Disabilities
accommodated
with prior notification.