

PLOWING AHEAD

AGRICULTURE & NATURAL RESOURCES

October 2024



Cooperative Extension Service
Madison County
230 Duncannon Lane
Richmond, KY 40475
(859) 623-4072
Fax: (859) 624-9510
<http://extension.ca.uky.edu>

SOIL HEALTH/AG LIME COST SHARE PROGRAM - OCTOBER 17TH

The Madison County Conservation District will host a meeting concerning importance of proper lime application and soil health on Thursday October 17, 2024, at 6:30 p.m. The meeting will be held at the Madison County Cooperative Service 230 Duncannon Lane in Richmond.

*** Refreshments will be served so please RSVP by calling 859-624-1981 ext. 3 if you plan to attend.**

Brandon Sears, Madison County Agriculture and Natural Resources Agent, will discuss proper soil testing, optimal pH for plant growth, lime quality, and application timing. Steve Blandford, soil Scientist with Natural Resource Conservation Service (NRCS) will address soil health, soil quality, and uses of different vegetations and cover crops to benefit the soil health and crop yields.

The conservation district "local cost share program" is for lime application for agricultural usage. The best management practice is to improve soil pH if needed for your particular crop. This provides a better opportunity to incorporate legumes and/or reinforce cool season grasses and to invigorate soil health.

Soil test of the proposed applications areas are required within the past 12 months, Soil test will be submitted to the Madison County Cooperative Extension Office. The Agriculture and Natural Resources Agent will make lime recommendations based on the soil test results and desired crop.

Cost-share will be for ground agricultural limestone purchased from a quarry. Lime application must be completed by June 30, 2025.

The cost share signup period will be October 17-31, 2024, at the Madison County Conservation District Office at 1024 Ival James Blvd. in Richmond Ky. **For further information contact the office at 859-624-1981 ext. 3**

Farm City Banquet

6:00 PM, Monday, November 11, 2024 ~ Madison County Cooperative Extension Office

Come join us in celebrating agriculture in Madison County! In addition to great food and awards, Dr. Gary Lacefield, retired UK forage specialist, will present a program called "Gratitude and Patriotism". Veterans will be recognized for their service.

Tickets are on sale now until November 1st and are \$20 each. Purchase them online at: <https://madison-4-h.square.site/> or in person by check (payable to "Madison County 4-H Council") at the Madison County Cooperative Extension Office located at 230 Duncannon Lane in Richmond. For more information call 859-623-4072.

Amanda Sears

Amanda Sears
Madison County Extension Agent for Horticulture
amanda.sears@uky.edu

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4-H Youth Development
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Brandon Sears

Brandon Sears
County Extension Agent
for Agriculture & Natural Resources
859-623-4072
brandon.sears@uky.edu



CWD SAMPLE MAIL-IN KIT PROGRAM

The CWD Sample Mail-in Kit Program allows hunters to collect lymph node tissue samples from their deer at home and mail them to the Kentucky Department of Fish and Wildlife Resources for testing. This free service is crucial for monitoring and managing CWD, a fatal disease that affects white-tailed deer, elk, and other members of the deer family.



CWD Sample Kits Available
at the Madison County Extension
Office, 230 Duncannon Lane,
Richmond, KY 40475

- **Sign-Out a Kit:**
Hunter must complete the sign-out sheet on the provided clipboard when picking up a kit.
- **One Kit Per Hunter**

IMPORTANT INFORMATION

- **Free of Charge:** Kits, return shipping, and CWD testing are free.
- **First-Come, First-Served:** Kits are available on a first-come, first-served basis.
- **Secure Kits:** Kits must not be left outside or in unattended areas.
- **Questions:** Hunters with inquiries about the kits or CWD should visit fw.ky.gov/cwd or email wildlifehealth@ky.gov.

PROGRAM CONTACT

Kate Williams | Wildlife Disease Biologist | (502) 803-8882 | kate.williams@ky.gov



FREE Tire Collection Event

Madison County Road Department South
208 Clarksville Lane | Richmond, KY (off US25/Berea Road)

OCTOBER 17-19

THURSDAY & FRIDAY | 8AM - 4PM

SATURDAY | 8AM - 12PM

Tires Accepted: Tires on or off rim, farm implement, bicycle, motorcycle, go-cart, ATV, tractor, truck and passenger tires

Tires NOT Accepted: Foam filled, calcium filled, off-road construction, solid tires, rubber tracks, any tire with a bead greater than 1.75 inches

Tires will NOT be accepted from tire retailers, agricultural retailers, scrap dealers, salvage yards or tire recyclers. This event is in partnership with Kentucky Division of Waste Management and is FREE for all Kentucky residents.

MADISON COUNTY BEEKEEPERS ASSOCIATION

Madison County Beekeepers Association will meet Monday, October 28, 6:00 pm, at the Madison County Extension Office. For information, call Kent, 859-623-3576, or Paul, 859-582-6172.



PLATE IT UP! KENTUCKY PROUD!

Whether it's spring, summer, fall or winter, you can Plate It Up with delicious recipes that put a new twist on your favorite Kentucky Proud foods. Visit <http://fcs-hes.ca.uky.edu/piukp-recipes> to find all the Plate It Up recipes using Kentucky Proud products.

MADISON COUNTY BEEF CATTLE ASSOCIATION ANNUAL MEETING

THURSDAY OCTOBER 24TH - 6:00 PM

Join us on Thursday October 24th, at 6:00 pm for the Madison County Beef Cattle Association Annual Meeting at the Madison County Extension Office, 230 Duncannon Lane, Richmond, Kentucky.

Speakers for this event to be announced. Service to Madison County Beef Cattle Association Award and Conservation District Green Pastures Award will be presented.

A ribeye meal with sides and dessert will be served. This meeting is open to anyone and there is no charge for current MCBCA members.

Non-members can join MCBCA for \$30, (couples \$45) and eat free, or pay \$15 per person for the meal. Door prizes will be handed out.



Call the Madison County Cooperative Extension Office at 859-623-4072 to reserve your meal by October 21st!

Madison County Family and Consumer Sciences is seeking partners for a Free Book Project. If interested in signing up to receive free children's books, for ages K through 5th grade, please use the QR code, and Jessica, our FCS Agent, will be in touch with you.

Titles included consist of activities such as word puzzles/ brain games/ maps/ and relevant literature. Thanks considering this unique partnership to help serve our local Madison County families!"



FREE SOIL TESTING!

Madison County Cooperative Extension Service offers free soil testing year round. We need at least two cups of dry soil to run a test. If you have questions on how to collect your samples, call 859-623-4072.

Agricultural and horticultural samples **from Madison County residents** will be accepted. **There is a 10 sample limit per farm or home per calendar year!** We would like to thank our sponsors for making this possible:

Madison County Extension District Board and Madison County Conservation District



Oven-Fried Fish Fillets

Oven-Fried Fish Fillets

- 1 pound fish fillets
- 2 tablespoons lemon juice
- 2 tablespoons vegetable oil
- 1/4 cup shredded parmesan cheese
- 1/4 teaspoon dill weed
- 1/4 teaspoon salt
- 1/4 teaspoon pepper
- 2 cups cornflake-type cereal, crushed

Preheat oven to 350 degrees Fahrenheit. Grease a 13x9 baking dish. Cut fillets into serving pieces, if necessary. In a small bowl, combine lemon juice and vegetable oil. In a separate small bowl, mix Parmesan cheese, dill weed, salt, and pepper. Dip each fillet into lemon juice mixture. Lay in baking dish, sprinkle with cheese mixture, and coat with crushed cereal. Bake uncovered for 20 to 30 minutes or until fish flakes easily.

Yield: 4 servings

Adapted from "Fish and Game Cookbook" by Bonnie Scott, Copyright 2013, Bonnie Scott

Nutrition Facts

4 servings per container
Serving size 4 ounces (110g)

Amount per serving
Calories 200

	% Daily Value*
Total Fat 6g	8%
Saturated Fat 1g	5%
Trans Fat 0g	
Cholesterol 80mg	27%
Sodium 330mg	14%
Total Carbohydrate 12g	4%
Dietary Fiber 0g	0%
Total Sugars 1g	
Includes 0g Added Sugars	0%
Protein 24g	

Vitamin D 1mcg	6%
Calcium 97mg	8%
Iron 6mg	35%
Potassium 449mg	10%

*The % Daily Value (DV) tells you how much a nutrient in a serving of food contributes to a daily diet. 2,000 calories a day is used for general nutrition advice.



This institution is an equal opportunity provider. This material was funded by USDA's Supplemental Nutrition Assistance Program - SNAP.



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

Find this Cook Wild Kentucky recipe and others for Fish, Venison, Rabbit, Dove, Frog Legs, and more at: <https://www.planeatmove.com/recipes/>, then Browse by Category, and choose Cook Wild Kentucky.

2024 HEART OF AMERICA GRAZING CONFERENCE

Regenerative grazing... Merging science and practice

Tuesday, October 15, 2024

Pasture Ecology Workshop with Matt Poore, North Carolina State University

9:00 a.m. - 5:00 p.m. ET

Glenmar Farms, 16943 St. John Road, Cecelia, KY 42724

Heart of America Banquet

6:00 p.m. - 8:00 p.m. ET

Hardin County Extension Office, 111 Opportunity Way, Elizabethtown, KY

Capturing the Beauty of Forages with Dr. Jimmy Henning

Wednesday, October 16, 2024

Heart of America Grazing Conference

7:00 a.m. - 3:00 p.m. ET

Hardin County Extension Office, 111 Opportunity Way, Elizabethtown, KY

- Healing the Land with Grazing
Ray Archuleta, Raythesoilguy LLC
- Soil Health: Separating Fact from Fiction
Alan Franzluebbbers, USDA Ag Research Service
- Bale Grazing for Biological Fertility and Soil Health
Greg Halich, University of Kentucky
- My Regenerative Journey
Sam Kennedy, Kettle Mills Livestock Co.
- Build It and They Will Come... Managing for Soil Life
Chris Teutsch, University of Kentucky
- Putting it All Together... A Call to Action
Matt Poore, North Carolina State University

Thursday, October 17, 2024

Pasture Walk at Greg Brann's Big Springs Farm

10:00 a.m. - 4:00 p.m. CT

683 Blankenship Rd, Adolphus, KY 42120

Tickets can be found at <https://2024HeartofAmerica.eventbrite.com>



Ray Archuleta



Matt Poore



Ray Smith



Greg Brann



Alan Franzluebbbers



Greg Halich



Chris Teutsch

Tickets can be found at <https://2024HeartofAmerica.eventbrite.com>



Kentucky Master Grazer Educational Program



If registering by mail, please send checks payable to KFGC to: Caroline Roper, UKREC, PO Box 469, Princeton, KY 42445

Pasture Ecology \$100 x ___ = ___
 Banquet \$50 x ___ = ___
 Grazing Conference \$75 x ___ = ___
 Pasture Walk \$45 x ___ = ___
 Total: _____

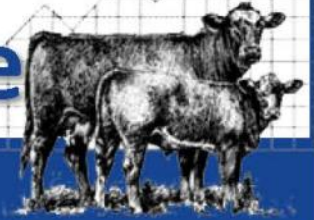
Name: _____
 Address: _____
 Phone: _____
 Email: _____



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

"Today's Challenges, Tomorrow's Opportunities"

Kentucky Beef Conference



October 24, 2024

Fayette County Extension Office
1140 Harry Sykes Way
Lexington, Kentucky 40504

9:00—10:00

Registration, visit
sponsors

\$10 registration fee

**RSVP by October 22nd
to Fayette County
Extension Office
859.254.3967**

10:00—Welcome & Sponsor Recognition

Beau Neal, Woodford County Agriculture &
Natural Resources Extension Agent

University of KY Remarks & Welcome

Dr. Laura Stephenson, UK Director of Extension

Genomics Technology

Dr. Troy Rowan, University of Tennessee
Institute of Agriculture Beef Genetics
Extension Specialist

11:00— Marketing Update & Outlook

Dr. Kenny Burdine, UK Beef Economic
Extension Specialist

12:00 Lunch

1:00— Animal Tagging Update

Dr. Michelle Arnold, UK Extension Ruminant
Veterinarian

1:30— KY Beef Cattle Health Update

Dr. Steve Velasco, KY Department of
Agriculture State Veterinarian

2:00—Adjourn

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Disabilities
accommodated
with prior notification.



Monday, Nov. 4th and Monday, Nov. 11th Course begins at 6:00 p.m. each evening at the Estill County Extension Office, 76 Golden Court, Irvine

The Bull Value Assessment Program is a two-part educational program. The first session will be education from specialist (listed below) which will help aid producers when purchasing a bull. The second session will be a “Mock Auction”. ***This program requires a commitment to participate in both parts.*** *Catered meal provided each evening.*

- Breeding Soundness Exams - Dr. Les Anderson
- Bull Nutritional Management - Drs. Jeff Lehmkuhler and Katie VanValin
- Matching Genetics to Management - Dr. Darrh Bullock
- Targeting Selection for Specific Markets - Dr. Darrh Bullock
- Tools for Selection - Dr. Darrh Bullock

➔ **To register for this program call 606-723-4557.**

Registration fee: \$20 (check made out to E.C.E.S.L)

Mail check to the Estill County Extension Office, 76 Golden Court, Irvine, KY 40336

Deadline to register: October 23, 2024

This program will satisfy CAIP requirement.

This program will be hosted by the following ANR Agents:

Emma Lee, Estill County

Levi Berg, Clark County

Jason Vaughn, Powell County

Brandon Sears, Madison County

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VARIABLE RATE FROST SEEDING EVALUATED AT UK RESEARCH AND EDUCATION CENTER

By Dr. Chris D. Teutsch, Caroline Roper, & Brittany Hendrix, University of Kentucky Research & Education Center, Princeton

Variable rate seeding (VRS) technology allows seeding rate to be adjusted in real time as field conditions or ground speed changes (Šarauškis et al., 2022). This could be especially useful in pastures where rough terrain makes maintaining a consistent speed difficult. This technology could improve the uniformity of seed dispersal resulting in more uniform stands of clover. The objective of this study was to evaluate the impact of variable seeding technology on actual seeding rate as ground speed was varied.

Variable Rate Seeder Evaluation

This evaluation was conducted at the University of Kentucky Research and Education in Princeton, KY. The experimental design was a random complete block with four replications. An UTV (Kawasaki Mule, 4010) was driven on a paved course that was 1,000 ft in length. An APV broadcast seeder, model MDD 100 M1 (APV America Inc., Pottsboro, TX), was mounted in the bed of the UTV. The seeder was calibrated for a seeding rate of 10 lb/A at 6 mph. The treatments consisted of driving the course at 3, 6, and 9 miles per hour (mph) with either variable or constant seeding rates. A Raven CR7 GPS unit (Raven Applied Technology, Sioux Falls, SD) was used to monitor speed. The actual speed was also calculated by timing each run and converting that measurement into mph.



Figure 3. Sweeping remaining seed out to determine the seeding rate by difference.

At the beginning of each treatment, 15 pounds of wheat seed was weighed and added to the seeder. Variable or constant seeding rate was then selected based on the treatment. The course was then driven at the speed designated for that treatment. At the end of the course the seed metering mechanism was disengaged, and the remaining seed was removed with a shop vacuum (Figure 3) and weighed. Data were analyzed for statistical differences.

Results

Actual speeds were not different for the constant and variable seeding rate treatments for a given speed treatment (Figure 5). In addition, actual speeds for the variable or constant seeding rates were close to the target speeds of 3, 6, and 9 mph (Figure 5). This indicates the UTV operators were driving both accurately and consistently in terms of speed.

As expected, when the seeding rate remained constant and the speed was varied, actual seeding rates were different (Figure 6). Increasing speed from 6 to 9 mph resulted in a 30% reduction in the seeding rate. In contrast, slowing ground speed from 6 to 3 mph doubled the seeding rate. When the variable seeding rate option was used, the seeding rate remained relatively constant (<10% variation) regardless of changes in ground speed (Figure 6).

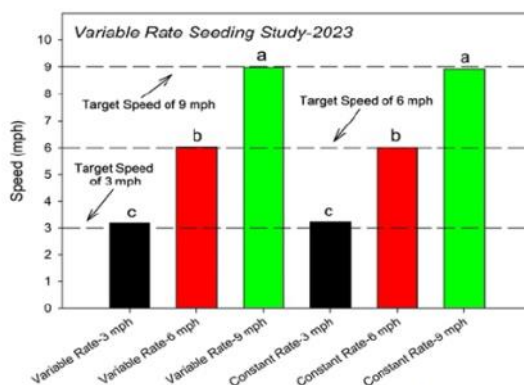


Figure 5. Actual speed in miles per hour for the 3, 6, and 9 mph treatments

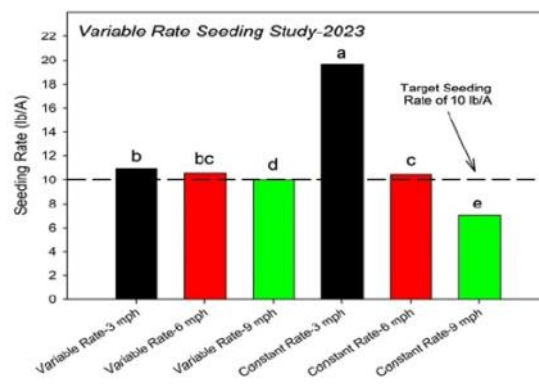


Figure 6. Actual seeding rate in pounds per acre as impacted by speed and the use of variable seeding rate option.

Summary and Implications

Using variable rate seeding technology in low input pastoral systems could have a measurable impact on pounds of seed applied per acre, especially in uneven terrain where a constant speed is difficult to maintain. Overall, using variable seeding rate technology could reduce seeding costs for livestock producers and result in more uniform stands of clover. However, the cost of this technology may limit adoption. The price of the seeder used in the study was \$5,800. This is a substantial increase when compared to less automated seeders that cost \$500 to \$1,000. One potential path to adoption is for Extension offices and Soil and Water Conservation Districts to purchase seeders and make them available as part of already existing equipment share/rental programs. More research is needed on-farms to better document the economic impact of utilizing variable seeding rate technology in low input pastoral systems.