AG News Today

FEBRUARY 2024

UP AND COMING ANR CLASSES, WORKSHOP & EVENTS

- Now accepting applications for the Livingston County Agriculture Investment Program. To pick up a packet visit the Livingston County Cooperative Extension Office. 803 US 60 East Smithland, KY 42081 Mon-Fri 8:00am-4:30pm.
- **Pesticide Applicator Training:** Leave with your pesticide licenses same day! Wednesday February 28th 2024 12:00pm.
- Livingston County Farmers Series: QH2 Quality Hay For Horses with speaker Bob Coleman. Thursday February 15th 2024 6:00pm.
- Livingston County Farmers Series: Estate Planning Workshop with guest speaker Josh Wilson with Kentucky Farm Bureau. Thursday February 22nd 2024 6:00pm.
- **Mushrooms:** This course will be held at Marshall County Cooperative Extension March 5th 2024 at 3:30pm.

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Livingston County CEA for ANR



Cooperative Extension Service Livingston County 803 U.S. Hwy 60 East.-P.O. Box 189 Smithland KY 42081 Phone: (270) 928-2168 Fax: (270) 928-4808 www.ca.uky.edu E-mail: DL CES LIVINGSTON@EMAIL.UKY.EDU

(EVEN) MORE REASONS TO LOVE RED CLOVER

Written by: Jimmy Henning UK College of Agriculture Food and Environment Plant and Soil Science Department

[First published in Farmer's Pride] Clover has been cool in Kentucky for a long time. Clover has long been known to benefit ruminant producers because of its high yields, high yields, biological nitrogen fixation, summer time production and dilution of the negative effects of tall fescue. New research from the USDA-ARS Food Animal Production Research Unit embedded in the UK College of Agriculture Food and Environment is adding even more reasons to love red clover.

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

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Disabilities accommodated with prior notification. Red clover directly counteracts the vasoconstriction caused by the toxic endophyte of tall fescue. The constriction of the exterior blood vessels makes ruminants much less able to regulate their body temperatures, causing heat stress in summer and cold stress in winter. Red clover has been found to contain a natural compound that actually causes these constricted blood vessels to dilate, restoring blood flow and relieving temperature stress. These compounds, called isoflavones, are also present in white clover and alfalfa, but at lower levels than red clover.

Surprisingly small amounts of red clover in the diet have large effects. Research by USDA-ARS group found that pastures overseeded at 15 and 30% red clover (or red clover hay as supplement) improved growth of steers and relaxed the exterior blood vessels of steers grazing toxic tall fescue. Even more significant, other studies have shown toxic fescue symptoms are alleviated by feeding mineral that contains 20% ground red clover leaves. Could red clover be the 'silver bullet' for toxic fescue that we have been looking for? It sure seems like it to me.

Addition of clover to toxic tall fescue pastures has long been known to improve conception rates of cattle. It is also known that isoflavones are estrogen-like compounds (phytoestrogens) which can suppress reproduction when fed at high levels, especially in sheep. USDA-ARS scientist Dr. Brittany Harlowe has begun to study the effects of high levels of red clover on the reproductive efficiency in cattle. Her preliminary results found reproductive efficiency was not suppressed in heifers fed a mineral that contained 20% red clover compared to a non-red clover control. The heifers receiving the red clover mineral shed their winter hair coat better and experienced less heat stress in hot, humid weather than those fed the non-red clover mineral. Red clover improves rumen fermentation. Rumen microorganisms do some magical things, like converting forage fiber into steak. One of the things you would change about the rumen if you could is the way that the microorganisms digest forage protein. Some rumen microorganisms will excessively break down forage protein and release ammonia. Red clover suppresses some of the rumen bacteria that are especially active in degrading forage protein. This lets more forage protein flow intact from the rumen, improving animal performance.

Better than alfalfa? Alfalfa has long been known as the queen of forage crops for its ability to produce high yields and high animal performance. Red clover has some qualities that in some ways make it superior to alfalfa. Before you burn me at the stake for this bit of forage heresy, hear me out. Both of these legumes are highly digestible, but alfalfa as it matures tends to accumulate more lignin associated with plant fiber than red clover. Lignin in mature forages reduces the digestibility of the fiber. Lower lignin values in red clover give it an energy advantage. Also, when I ran the mobile forage testing lab at the University of Missouri, red clover always testing lower in fiber than comparable alfalfa bales. Comparing red clover to alfalfa may be like comparing Porsche to Ferrari since both are high performance entities. Just remember that red clover brings a lot of nutrition to the table too.

With red clover you get all of these benefits plus free nitrogen from the rhizobia bacteria embedded in root nodules. Don't forget that red (and white) clover can be readily introduced into tall fescue pastures by overseeding now. This establishment method is commonly known as frost seeding because the





freezing and thawing of winter creates enough seed-soil contact that clover will germinate in late spring. For more information on frost seeding clover, type 'frost seeding uky' into your internet browser or go directly to

https://grazer.ca.uky.edu/content/frostseeding.

More than ever, red clover needs to be part of your strategy for managing toxic tall fescue.

Happy foraging.







Six easy steps for Clover Frost Seeding

Conduct soil analysis and apply necessary nutrients.

60

Choose a high-quality variety.

Apply an adequate quantity of seed.

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Manage competition the following spring to improve establishment.

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Utilizing a corrugated roller post-seeding can help achieve optimal seed-soil contact.

Ensure seed contact with bare soil.

Source: Jimmy Henning, plant and soil science professor An Equal Opportunity Organization.

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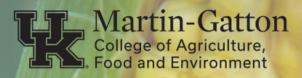
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Community and Economic Development Lexington, KY 4050



LIVINGSTON COUNTY AGRICULTURE INVESTMENT PROGRAM (CAIP)

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: Crittenden County Conservation District 118 E. Bellville St. Marion, KY 42064 (270) 965-3921

COUNTY AGRICULTURAL INVESTMENT PROGRAM (CAIP)

Applications for cost reimbursements are available for Livingston County's CAIP, to assist farmers in making important farm investments.

Application Period: beginning September 1, 2023

Applications will be accepted first-come, first-serve until funds are used.

Application Available from: Crittenden County Conservation District 118 E. Bellville St., Marion **-OR-**Livingston County Cooperative Extension Svc. 803 US 60 E, Smithland Monday – Friday (8:30 a.m. – 4:00 p.m.)

For More Information: Contact 270-965-3921 or 270-928-2168 or email Cynthia.Jenkins1@usda.gov All applications are scored, based on the scoring criteria set by the Kentucky Agricultural Development Board.

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Adam Bamer

CEA for ANR



AGRICULTURE & NATURAL RESOURCES

PART OF THE LIVINGSTON COUNTY FARMERS SERIES OH 2 QUALITY HAY FOR HORSES

INCLUDING SPECIAL GUEST SPEAKER; DR. BOB COLEMAN - EQUINE EXTENSION SPECIALIST

WHEN: THURSDAY FEBRUARY 15TH 2024 TIME: 6:00PM WHERE: LIVINGSTON COUNTY COOPERATIVE Extension office Address: 803 US 60 West Smithland, Ky 42081

PLEASE RSVP BY CALLING THE LIVINGSTON COUNTY EXTENSION OFFICE AT 1.270.928.2168 MON-FRI 8:00AM-4:30PM

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AGRICULTURE & NATURAL RESOURCES

PART OF THE LIVINGSTON COUNTY FARMERS SERIES Estate Planning Workshop

INCLUDING SPECIAL GUEST SPEAKER; JOSH WILSON WITH KENTUCKY FARM BUREAU

When: Thursday February 22nd 2024 Time: 6:00pm Where: Livingston County Cooperative Extension Office Address: 803 US 60 West Smithland, KY 42081

PLEASE RSVP BY CALLING THE LIVINGSTON COUNTY EXTENSION OFFICE AT 1.270.928.2168 MON-FRI 8:00AM-4:30PM

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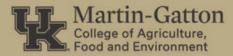












FENCING & LIVESTOCK HANDLING FACILITIES

SPEAKER: JD VAN HOOOSER

THURSDAY, FEBRUARY 29 6:00 P.M.

LIVINGSTON COUNTY EXTENSION OFFICE, 803 U.S. 60 EAST, SMITHLAND

FOR MORE INFORMATION, OR TO SIGN UP, CALL THE OFFICE AT 270-928-2168

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Mushrooms

Join Dr. Ellen Crocker, UK Forest Health Specialist, as she discusses the wild mushrooms found in our region and how to identify them!

3:30pm March 5th, 2024 Marshall County Extension Office RSVP by calling 270-527-3285

Program provided by the Marshall, Livingston & Calloway County Extension Offices

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Disabilities

FARMERS RECIPE OF THE MONTH FEBRUARY 2024



Smashed Potatoes

6 large baking potatoes Cooking spray 11/2 cups sliced, fresh mushrooms 4 green onions, thinly sliced

6 ounces fresh spinach 1 tablespoon canola oil 2 teaspoons Dijon mustard 1/2 teaspoon salt 34 cup light sour cream

1 cup 2% Cheddar cheese, shredded 1/2 teaspoon black pepper

Preheat oven to 400 degrees F. Wash and dry potatoes. Spray the skins with cooking spray and pierce potatoes in several places with a fork. Place on a 13- by-18-inch baking sheet. Bake until tender, about 1 hour. Wash mushrooms, green onions and spinach. Heat oil in a skillet over medium-high heat. Add mushrooms and sauté for 6 minutes. Add the green onions and fresh spinach, sauté for 1 minute. Slice off the top inch of each potato, leaving a 1/4 inch border around the edge. Scoop out the flesh into a mixing

bowl and mash. Add mushroom mixture, Dijon mustard, sour cream and 1/2 cup cheese. Mix well and season with salt and pepper. Scoop mixture into potato shells and sprinkle with the remaining cheese. Return the potatoes to the baking sheet and bake until heated through and golden brown on top, about 20-25 minutes. Yield: 6 servings

Nutritional Analysis: 410 calories, 9 g fat, 4.5 g saturated fat, 20 mg cholesterol, 400 mg sodium, 70 g carbohydrate, 9 g fiber, 4 g sugars, 15 g protein.



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

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the UK Office of Institutional Equity and Equal Opportunity, 13 Main Building, University of Kentucky, Lexington, KY 40506-0032 or

US Department of Agriculture, Office of the Assistant Secretary for Civil Rights, 1400 Independence Avenue, SW, Washington, D.C. 20250-9410.