

HICKMAN COUNTY EXTENSION OFFICE
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University of Kentucky
College of Agriculture,
Food and Environment
Cooperative Extension Service

Hickman County

Agriculture and Natural Resources Newsletter

MARCH 2022

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.

Introduction



Well I can't believe it's already March! Seems like time keeps flying by. I wanted to start out by reiterating a few things from last month's newsletter. As a reminder, if you want to send in soil samples to the UK labs, try to get it done ASAP. March is expected to be extremely busy, so the longer you wait to get the samples in, the longer you may have to wait for results.

Also, any input on meeting topics or community interests would be greatly appreciated! Make sure to stay up to date on the High Pathology Avian Influenza (HPAI) virus. I have a flyer with information on the next page and if you take nothing else from this newsletter, please give it a quick glance.

Thanks!

John David Tucker



ALERT!

Avian Influenza in Kentucky

Information for bird owners

Highly Pathogenic Avian Influenza (HPAI) has been found in Kentucky. It is a contagious disease of birds, typically deadly to domesticated poultry.

WHAT KINDS OF BIRDS ARE AT RISK?

HPAI is highly contagious and often fatal for domesticated poultry, including **chickens, turkeys, pheasants, quail, ducks, geese, and guinea fowl**. It can be carried by free flying migratory waterfowl, such as ducks, geese, and shorebirds.

DOES HPAI INFECT PEOPLE?

Properly cooked meat and eggs from birds are safe to eat. Always remember, cooking poultry and eggs to an internal temperature of 165°F kills bacteria and viruses. According to the U.S. Centers for Disease Control and Prevention, these avian influenza detections do not present an immediate public health concern. No human cases of these avian influenza viruses have been detected in the United States.

HOW IS HPAI SPREAD?

The disease is spread by direct contact between birds, by coughing and sneezing, and through droppings. People can spread HPAI by moving infected birds, moving contaminated equipment and feed, and by wearing clothing and shoes that have been in infected areas.

WHAT DOES HPAI LOOK LIKE IN BIRDS?

Some signs of HPAI include sudden death of poultry without clinical signs, respiratory signs (nasal discharge, coughing sneezing), a lack of energy or appetite, decreased water consumption, decreased egg production or soft-shelled or misshapen eggs.

WHAT YOU CAN DO TO HELP

- If you think your birds are sick please immediately call the **Sick Bird Hotline** at: **866-536-7593**
- Keep your birds away from other birds.
- If you visit family or friends with birds, shower, wash your clothes, and change your shoes before handling your birds
- Don't visit them without taking these same steps if you have handled your birds.
- Try to keep people who also own birds from visiting your property
- Share information about HPAI with family and friends



KENTUCKY
DEPARTMENT OF
AGRICULTURE

kyagr.com/hpai



SICK BIRD HOTLINE: 866-536-7593



University of Kentucky
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Hickman County

Farmers affected From December 10th tornado in Hickman County can access \$1,000 of needed farm supplies from Falder's Farm Supply in Mayfield.

MADE POSSIBLE BY DONATIONS FROM KENTUCKY CATTLEMAN'S FOUNDATION



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Farmers affected from the December 10th tornado in Hickman County can access up to \$1,000 of needed farm supplies from Falder's Supply in Mayfield. Supplies include chainsaws, hand tools, gates, fencing supplies, and hay rings. Made possible by donation from the Kentucky Cattlemen's Foundation. Please contact John David Tucker Hickman County Extension Agent for Agriculture and Natural Resources at 270-653-2231 for more information. Limited available funds on a first come, first served basis.

2022 IPM Training School

March 9, 2022



College of Agriculture, Food and Environment



Location
Christian County
Extension Office
2850 Pembroke Road
Hopkinsville, KY 42240

Contacts
Zoraida Viloria
zvilloria@uky.edu
Phone: (956) 373-6770

Ric Bessin
r.bessin@uky.edu
Phone: (855) 525-1120

To register to attend the in person or online meeting [Click Here](#)

	Field Crops Session - CEUs	Horticulture Session - CEUs
Pesticide Applicator	2 General and 1 Specific for Categories 1A and 10	1 General and 1 Specific for Categories 1A and 10
Certified Crop Adviser	Nutrient Mgmt:1; Soil & Water Mgmt:0.5; IPM: 1	IPM: 2.5

Program

Field Crops Session – Morning

8:00	Registration	
8:30	Welcome	Dr. Ric Bessin
8:45	Spots, Rots, and Syndromes: Managing Challenging Soybean Diseases	Dr. Carl Bradley
9:15	Updates on Entomological Studies in Corn and Soybeans: 2020-2021	Dr. Raul Villanueva
9:45	Blue Water Farms – Edge-of-Field Water Quality Monitoring in Western Kentucky	Dr. Brad D. Lee
10:15	Coffee Break	
10:30	An Integrated Approach to Optimizing the Productivity of Grassland Ecosystems	Dr. Chris Teutsch
11:00	Managing Soil pH—the Foundation of a Good Soil Fertility Program	Dr. Edwin Ritchey
11:30	Lunch Break (on your own)	

Horticulture Session – Afternoon

12:30	Limiting Pests Using Exclusion Netting in Fruits and Vegetables	Dr. David Gonthier
1:00	Soilborne Fungi in Vegetables: Management of Persistent Disease Agents	Dr. Nicole Gauthier
1:30	Rotational Practices for Vegetable Crops to Prevent or Reduce Disease Pressure	Dr. Rachel Rudolph
2:00	Coffee Break	
2:15	Weed Management in Turf	Dr. Shawn Wright
2:45	The Future is Now: Novel Horticulture Pest Management Techniques	Dr. Jonathan Larson

2022 IPM TRAINING SCHOOL

The 2022 Integrated Pest Management School Training will be held in person on March 9 at the UK Christian County Extension Office (Hopkinsville, KY), and livestreamed via Zoom.

To attend either in person or virtually, it is necessary to register at 2022-IPM. Ten UK-College of Agriculture, Food and Environment specialists will present and discuss updated findings on diverse topics about field and horticultural crop production arranged in two sessions. Pesticide applicators and Certified Crop Advisers will receive CEUs for each attended session. Your active participation makes us stronger.



A UNIVERSITY OF KENTUCKY & UNIVERSITY OF TENNESSEE COLLABORATION

SPRING INTO THE PRODUCTION SEASON

Register for one or more sessions here:

<https://tinyurl.com/4k899hnn>

Tuesdays on Zoom from 6-7:30 PM EST

February 15- Tools & equipment for vegetable production

March 1- Ins and outs of fertilizers and soil fertility for organic vegetable production

March 15- Tomato grafting & root-knot nematode management

March 29- High tunnel crop rotation

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INSTITUTE OF AGRICULTURE
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University of Kentucky
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Horticulture



WEBINAR SERIES: RAISING PUREBRED CHICKENS

Pre-registration for each webinar is required. More information on each webinar and links to register available on Facebook at

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

Individual links given below for those not on Facebook

MARCH 8 @ 7PM Eastern Time

Topic: Introduction to poultry genetics

<https://uky.zoom.us/meeting/register/tZwodeygrTwpHdUTbI1Ib2T53KJ0xiFpv3VC>

MARCH 15 @ 7PM Eastern Time

Topic: Genetics of combs, plumage, eggshell color, etc.

<https://uky.zoom.us/meeting/register/tZIlce2opj0qHtVBnqShOREDsOEYBPsnhdVq>

MARCH 22 @ 7PM Eastern Time

Topic: Breeding programs and selecting breeders

<https://uky.zoom.us/meeting/register/tZUqcOupqTgqEtCVuDLaNn2ey5cb4aveZmwm>

MARCH 29 @ 7PM Eastern Time

Topic: Incubation and operating a hatchery in Kentucky

<https://uky.zoom.us/meeting/register/tZ0rcO6grTMjG9yTMJN9170gqRtWFK-AxZXd>

WEBINARS PRESENTED BY

Drs. Jacquie Jacob and Tony Pescatore

Department of Animal and Food Sciences, UKY



Drone Pilot Certification Workshop

An intensive prep course to obtain a drone pilot license



Course:

March 15 and 16, 2022

9 am- 4 pm each day

(Lunch will be provided both days)

Hopkins County Extension Office

75 Cornwall Drive

Madisonville, KY

Course: \$400

Exam:

The exam takes approximately 2 hours and appointments will be scheduled on

March 17

Exam: \$175

For more information and to register contact:

Lori Rogers

Lori.Rogers@uky.edu

270-625-2143

CCA: 12 CEUs

Class size is limited!



Course will be taught by Mandy Briggs, Certified Flight Instructor

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RECIPES

Roast Venison

Servings: 12 Serving Size: 5 ounces



Using a slow cooker brings out intense flavors and makes cooking a roast super easy.

Ingredients:

- 4 pounds venison roast
- 1 teaspoon salt
- 2 tablespoons flour
- 2 tablespoons oil
- ¼ teaspoon garlic powder
- 1 onion, sliced
- 2 tablespoons brown sugar
- ¼ cup lemon juice
- 4 cups low-sodium canned tomatoes
- ¼ teaspoon browning sauce, if desired

Directions:

Season roast with salt and roll in flour. Brown on all sides in hot oil in a heavy skillet. Place in a slow cooker and add remaining ingredients. Cook on low for 10 hours or on high for 6 hours.

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

Tips

Leftovers ideas: cold sandwiches, heated in barbecue sauce for hot sandwiches, or diced into soup or stew.

Nutrition facts per serving: 250 calories; 6g total fat; 2g saturated fat; 0g trans fat; 130mg cholesterol; 330mg sodium; 10g carbohydrate; 2g fiber; 0g sugars; 21g protein; 0% Daily Value of Vitamin D; 0% Daily Value of Calcium; 5% Daily Value of Iron; 10% Daily Value of Potassium



(Even) More Reasons to Love Red Clover

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.

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/frost-seeding>.

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

Happy foraging.



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