Ag & Natural Resources

OF COWS AND PLOWS FRANKLIN COUNTY COOPERATIVE EXTENSION APRIL 2023 NEWSLETTER



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Food and Environment
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Alfalfa Weevil and Insecticide Effectiveness

By Ric Bessin, UK Entomology Extension Specialist

Posted on March 28, 2023

A few years ago, a bioassay of alfalfa weevil larvae collected in a central Kentucky alfalfa field showed low levels of control by a pyrethroid compared to other insecticide modes of action. In this particular instance, pyrethroids were used exclusively for alfalfa weevil control for well over a dozen years. For alfalfa weevil, there are only 4 different modes of action registered. When pyrethroids lose their effectiveness, only three modes of action are left to select from for this pest. So, growers must be careful to not overuse one mode of action such that the pest population in an area becomes tolerant to that insecticide, or even resistant. Once a population becomes resistant to an insecticide or a group of insecticides, the population may stay resistant for a long period of time, even if the insecticide is not used.

(Continued on pg. 2)

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Alfalfa Weevil Cont. from pg. 1



Figure 1. Alfalfa weevil is a key pest of alfalfa and resistance to common insecticides has become a concern recently

(Photo: Ric Bessin, UK)

Key IPM Strategy

IPM strategies can be used to prevent or delay the development of resistance. One key IPM strategy is to not use an insecticide unless the pest population exceeds the economic injury level on average across an entire proposed treatment area. This means the area needs to be monitored regularly (weekly) such that samples are taken to represent the entire field. Often with alfalfa weevil, there are pockets within the field that exceed economic thresholds, but the entire field is not above the threshold. In this instance, either the person should hold off, wait, and resample to determine if the threshold is crossed at a later time, or spot spray those 'hot' spot areas. By delaying sprays or only spraying a portion of the field, natural enemies are preserved and the opportunity for natural control is increased.

Rotate Modes of Action

Proper pesticide management can also help prevent or delay resistance. If and when insecticide sprays are needed, it is important to rotate among modes of action. Repeated consecutive use of the same mode of action favors development of resistance to that mode of action. Rotating among different products within the same mode of action does not help and will also favor resistance. It is recommended to rotate modes of action with each new generation of the target pest. Since alfalfa weevil has one generation per year, this means that each year growers should rotate to a different mode of action from what was used the previous year. It is best to use 3 or more modes of action in rotation to fight the development of resistance.

Publication of the Month:

Baleage Frequently Asked Questions (AGR—235)

Baled silage, or "baleage," is an excellent method for forage harvest, storage, and feed efficiency. This publication focuses on common questions about baleage. Together with AGR-173:Baling Forage Crops for Silage, this information will help producers better understand the production and use of baleage as livestock feed.

Find the full publication here: http://www2.ca.uky.edu/agcomm/pubs/AGR/AGR235/AGR235.pdf Or on our website: https://franklin.ca.uky.edu



Baled silage, or "baleage," allows forage to be harvested at higher whole plant moisture levels than dry hay.



Rye forage baled and ready for wrapping. Baleage allows timely cutting because of the shortened amount of good weather required.



Patching holes in wrapped baleage.

KSU Mobile Processing Unit Training

Steve Skelton, KSU, will be hosting the annual mobile processing unit training for fish and fowl on April 28th at the Harold R. Benson Research and Demonstration Farm. Farmers must attend this training (only held once a year) in order to use the MPU. Interested producers should contact Steve Skelton at steven.skelton@kysu.edu and copy Megan Goins at megan.goins@kysu.edu or call (502)-597-6103 for more information about registering.

"The MPU is a farmer-friendly processing plant on wheels for all types of poultry (excluding waterfowl), rabbits, and various types of aquaculture including paddlefish, caviar, freshwater prawn and red claw crawdads." Skelton said.

The MPU is a 20-feet long, eight-foot-wide gooseneck trailer that was converted to use as a processing facility with a hot water heater, water lines and electricity. Other additions include a machine that vacuum seals the meat and a poultry/rabbit saw.

There are many benefits for farmers using the MPU, Skelton explains. For one, he said he's heard horror stories of farmers taking their product to a private processor and receiving someone else's in return. Cost is a big benefit, too, he explained.

"Cost and pride in your product are the bottom line for using the MPU for processing," Skelton said. "The farmers take pride in how they raise their products."



Spring compost giveaways will be held again on the following Fridays **April 7**, **and April 28**. All events occur from 8 AM to noon at the Road Department, 100 Lewis Ferry Road. Participants are limited to one loader bucket or five bags per household.

All are required to sign a waiver.

Franklin County

Junior Cattlemen's Association

Be a founding member of the county chapter!

First year's dues (\$10) are free (limited number, first come, first served)!

Your Franklin County chapter will have regular meetings, representatives to the FCCA Board, farm & industry tours, fundraising events, educational opportunities and much more!

As a county member you are also a state member:

The Kentucky Junior Cattlemen's Association is involved in many activities throughout the year. These activities help all the members get involved in knowing each other and learning more about the beef industry.

KJCA Convention - January

At the beginning of each year, the KJCA Convention is held in conjunction with the KCA Convention. During this time, the KJCA holds its annual membership meeting to elect new officers and directors for each region. In addition, Junior members will be able to hear from industry speakers, attend an educational tour, and partake in a KJCA reception. The 2023 Convention will take place January 4-6 at the Central Bank Convention Center in Lexington, KY.

KJCA Leadership Camp - Summer

The KJCA Leadership Camp is a two day annual event that explores the different beef cattle industries in Kentucky. Junior members are introduced to a variety of professions by hearing from some of the top agriculture specialists in Kentucky and by touring several businesses. The camp is held at the KCA Office in Lexington and is a first come, first serve basis for up to 20 students. The next Leadership Camp will take place July 29-31.

KJCA Summer Field Day – Spring/Summer

Held in a central Kentucky location, the KJCA Field Day gives students an opportunity to see a well-managed farm in addition to becoming educated about the beef cattle industry and agriculture by using a hands-on approach. It will be held Aug 8th this year, check back for location!

KJCA/KDA Fall Classic - October

Since 2004, the KJCA Fall Classic event has grown greatly and now offers judging, team fitting, sales talk, skillathon, showmanship, ad design, photography, and a breeding heifer and bull show. In 2012 KJCA teamed up with the Kentucky Department of Agriculture to combine their fall shows and the partnership has been outstanding!



KJCA Membership Application

Name:		
Co./Farm Na	ame:	
Address:		
City:	State: Zip:	
County:	Recruited By:	
Phone: ()Fax: ()	
E-Mail:		
Breed(s) Raised/Shown:		
Complete and	return :	
Email:	Crystal.harrod@yahoo.com	
or		
Mail/drop off:	Franklin County Extension Office KJCA 101 Lakeview Court // Frankfort KY 40601	



FRANKLIN COUNTY SPRING CLEAN 2023



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DUMPSTER DAY

Saturday, April 22
from 730 AM - 230 PM
At the following
locations



Old Peaks Mill School Evergreen Road Fire Station Bald Knob Fire Station Owenton Road Fire Station Lakeview Park Franklin County Road Dept

Anyone found dumping outside these hours may be held liable for illegal dumping

+ +

HOUSEHOLD HAZARDOUS WASTE COLLECTION

Saturday, April 22 from 8 AM to 12 PM At 309 Rouse Avenue

Accepted Items include:

Poisons, herbicides, batteries, aerosol cans, propane/helium canisters, oil-based paint, solvents/gasoline/thinners, antifreeze, fluorescent tubes, fire extinguishers, adhesives, asbestos, corrosive acids/bases/cleaners, dioxins, fertilizers, organic peroxides, reactive solids, oxidizers, flammable solids, mercury, freon/acetylene, electronics (including TVs!)

We will NOT accept: water-based paints, motor/hydraulic oil, or medications

SCRAP METAL COLLECTION

With the Franklin County
Conservation District
at Lakeview Park
Thursday - Saturday
4/20-4/21 from 8 AM to 430 PM
4/22 from 8 AM to Noon



Voucher needed to dump at the landfill on Saturday.

Sign up for free at www.franklincounty.ky.gov/

trash-vouchers

YARD WASTE WEDNESDAY

Begins 4/26 and runs every Wednesday through 11/1 8 AM to 12 PM at 100 Lewis Ferry Rd

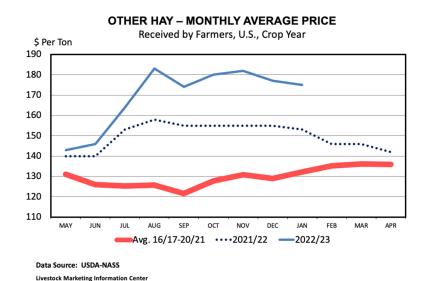
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FOR MORE INFORMATION, CHECK OUT OUR WEBSITE: WWW.FRANKLINCOUNTY.KY.GOV/SOLID-WASTE-MANAGEMENT

2022-2023 Hay Crop— Summary of Cost and Returns

As we transition to spring in the coming months, we will naturally shift gears and begin thinking about and preparing for 2023 hay production. It is difficult to overstate how important it is for us to have improved forage and hay production in the Southeast. We hope it will be different than last year. In 2022, most Southern states experienced some degree of drought. Input prices for agricultural chemicals, fuel, supplemental feed, and labor were all at their highest in recent memory. As a result, hay production declined by 16%, 13%, and 20% in Arkansas, Mississippi, and Kentucky, respectively.

Part of planning for this year's hay crop is re-examining costs and breakeven prices. This article uses results from the 2022 Arkansas Hay Verification Program to examine hay production costs in Arkansas. The Arkansas Hay Verification Program (AHVP) is a collaborative effort between Arkansas forage producers, county Extension agents, and state Extension Specialists. Eight hay fields from seven farms participated in the 2022 AHVP and were all located in the Ozark district. The total acreage participating in 2022 AHVP was 252.5 acres or 36.1 acres per field. Hay production from the 2022 AHVP totaled 826.2 tons or 3.27 tons per acre. The estimated value of



production from the 2022 AHVP totaled \$127,239.42.

Operating costs averaged \$375.14/acre with a range of \$192.96/acre – \$577.50/acre. Among all items, fertilizer represented the largest proportion of operating costs. Farms in the 2022 AHVP averaged \$244.43/acre on fertilizer (including poultry litter), with a range of \$92.00/acre – \$428.15/acre. Higher fertilizer expenses were positively correlated with higher per-acre hay yields. A negative correlation was observed between fertilizer expenses and breakeven hay prices. Realized yield gains offset the higher costs from applying fertilizer.

Breakeven prices are calculated by dividing total specified costs by production per acre (tons/acre). Note breakeven refers to the hay price where revenue equals costs. The average breakeven price of hay among farms in the 2022 AHVP was \$111.88/ton. Breakeven prices ranged from \$82.72/ton to \$160.99/ton. It is recommended that farms get accurate estimates for bale weights and price hay on a per-ton basis. Bales are not a standard unit of measurement and do not accurately reflect the value of production when priced on that basis.

Note: These estimates reflect summary data from eight farms in Arkansas that will not necessarily reflect any one farm's situation. James Mitchell (University of Arkansas) and Brian Mills (MS State).









Save the Date: April 28, 2023
Franklin County High School
Drive Your tractor to School Day

Photos from 2022 Drive Your Tractor to School Day



THIRD THURSDAY THING

Topics: Farmers Markets and Water Quality

April 20, 2023 | 10 AM EDT

Join us in person at the Harold R. Benson Research & Demonstration Farm or online!

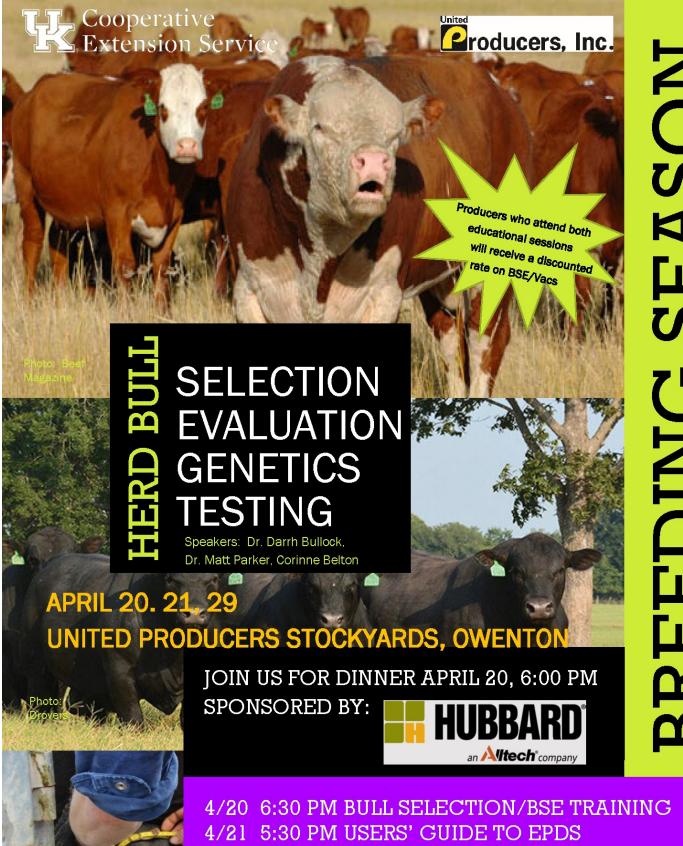


1525 Mills Lane, Frankfort, KY 40601



youtube.com/kysuag/live

AG & NATURAL RESOURCES



SEASON ING ING REED

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4/29 8:00 AM BREEDING SOUNDNESS EXAMS*

*By appointment, space is limited. For information, scheduling your BSE or to reserve your meal contact your local Extension Office



AG & NATURAL RESOURCES



Spring Seeding

Currently, no-till seeding is the best method to seed in your pasture when a spring seeding is planned.

NOTE: The next window to seed cool season forages is August 15 to September 15 depending on moisture conditions.

Consult with your county agent to select the appropriate forage types for your area and intended use (see the listing of all county agents at the end of the calendar).

See UK College of Agriculture, Food and Environment publication Establishing Horse Pastures (ID-147) for more information.

Mineral and Salt Supplementation

Put mineral and salt products in a suitable feeder that protects the minerals and salt from the elements.

Place feeder for easy access to your horse.

Check for consumption. Regular consumption should be 1 to 1½ ounces per adult horse per day.

The amount may vary depending on animals sweating.

Use only products designed for horse and read the label to know what you are providing.

Use loose product to promote greater intake than with block products.

Pasture Rotation

Divide pastures into smaller paddocks to

April Tips & Tidbits

help reduce selective or spot grazing, resulting in more complete utilization of available forage.

Make sure the energizer for the temporary fence is working properly and your watering system is ready to go.

Graze one paddock at a time.

Move animals to the next paddock when forage is grazed down to 3 to 4 inches. Some areas will have more forage, but if the majority of the paddock is 3 to 4 inches in height move the horses.

Move horses back into the paddock once the forage is again 6 to 8 inches in height, which is normally after a 14 to 21 day rest period.

Rest periods can be longer depending on growing conditions.

Use a grazing stick to help evaluate the forage availability. Walk the pastures or paddock to see how the forage is being grazed.

See UK College of Agriculture, Food and Environment publication Using a Grazing Stick for Pasture Management (AGR-191) for more information.

Compost Unused Hay/Bedding

A typical horse weighing 1,000 pounds will produce approximately 50 pounds of

manure per day, and horses housed in stalls may generate an additional 20 pounds of soiled bedding per day.

Improper management of this waste has the potential to pollute Kentucky's surface and ground waters.

Composting, when done correctly, is a viable option as composting converts organic matter into a stable humus-like material.

Composting can be accomplished through many ways such as bins or windrows.

How to Compost:

Turn compost piles or windrows. Aerobic (with oxygen) decomposition is more efficient than anaerobic and is achieved through aeration.

Turn the pile 3 to 5 times every 2 to 3 days when the moisture content is between 40 and 70 percent.

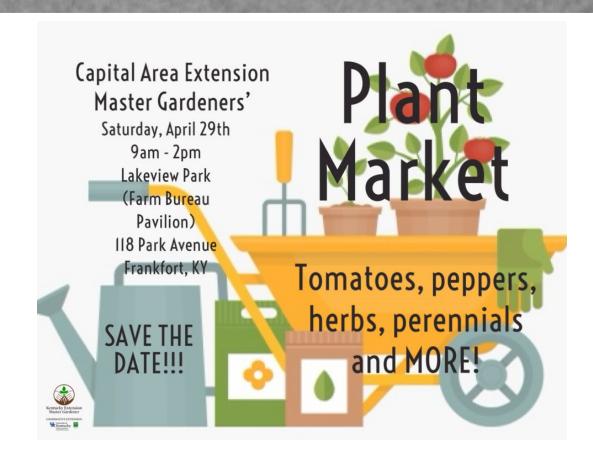
Maintain temperatures between 135°F and 160°F. A temperature of 150°F is ideal for killing the eggs of parasites.

Apply stable compost to pastures, gardens, and around trees and shrubs as a mulch or soil amendment.

See UK College of Agriculture, Food and Environment publication Composting Horse Muck (ID-168) for more information.



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



AG & NATURAL RESOURCES



176 Pasadena Drive Lexington KY 40503 kbn@kycattle.org

Lexington, KY 3/8/2023

University of Kentucky Extension and Kentucky Beef Network offer Free BQCA Certifications in April and September

The Kentucky Beef Network and University of Kentucky Extension are pleased to announce that they will be offering free Beef Quality and Care Assurance (BQCA) certifications in April 2023 and September 2023.

The Kentucky BQCA program takes national BQA practices one step further to provide a holistic program for Kentucky producers, by adding cattle handling and animal care components to the training modules. Educational modules provide the best management practices for handling cattle and providing for their well-being, in addition to training on the core principles of BQA.

The cost of BQCA enrollment is \$5 for in person training through their local county extension office and \$10 for online training, however from April 1- 30, 2023 and September 1-30, 2023 the Kentucky Beef Network and University of Kentucky Extension will be sponsoring the enrollment costs, making it free for producers.

Producers interested in taking advantage of this opportunity can visit www.kybeefnetwork.com to access the online training platform or contact their county extension office for training opportunities. "We are very excited for this partnership for our Kentucky cattlemen to continue to tell their story to consumers through sound management practices," says Kevin Laurent University of Kentucky Co-BQCA Coordinator.

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The Kentucky Beef Network and University of Kentucky merged their Cattle Handling and Care Program with the National BQA program to create a new program, aptly named the Beef Quality and Care Assurance (BQCA) program. This program was implemented to raise awareness of practices that ensure the proper handling and welfare of cattle while keeping farmers safe and continuing to supply healthy beef to consumers. In turn, this program enables beef and dairy producers to enhance their product, maximize marketability and strengthen consumer confidence.

Free BQCA Certifications

Franklin County Conservation District

Backyard Conservation Program
Urban Cost Share Program

April 1, 2023 to August 1, 2023

Raised Garden Beds, Rain Barrels, Compost Bins, Pollinator Gardens and Behives

- First come, first serve
- Franklin County Residents only
- One application per household
- 50% cost share up to \$250 maximum

Must have approval before you begin project

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



We now have the new 2023 Beef IRM Calendars available.

These are handy for beef cattle management as they have timely suggestions and recommendations for each month.

Stop by the Franklin County Cooperative Extension Office today to pick one up!



Balsamic Veggie Pasta

4 tablespoons olive oil, divided

2 cloves garlic, minced

1 small zucchini, chopped

1 small yellow squash, chopped

2 tomatoes, chopped 1/2 cup green onions, chopped

Salt and pepper to taste

2 tablespoons balsamic vinegar

1 teaspoon dried basil

8 ounces whole wheat pasta

1 tablespoonParmesan, grated

In large skillet, heat 1 tablespoon olive oil over medium heat. Add minced garlic and cook one minute, until fragrant. Add chopped zucchini, squash, tomatoes, and green onions, and cook until tender. Add salt and pepper to taste. In a large bowl, whisk together 3 tablespoons olive oil, balsamic vinegar, and dried basil. Stir in zucchini, squash, tomatoes, and green onions. Let sit for 5 to 10 minutes. In a large pot, cook pasta

in salted water about 7 minutes, until al dente. **Drain. Toss** pasta with vegetable mixture until incorporated. **Sprinkle** with Parmesan cheese. **Serve** warm.

Yield: 4, 2-cup servings

Nutritional Analysis: 390 calories, 16 g fat, 3.5 g saturated fat, 0 mg cholesterol, 200 mg sodium, 52 g carbohydrate, 1 g fiber, 6 g sugars, 0 g added sugars, 10 g protein



SAVE THE DATES:

April 10 FCHS FFA Alumni Meeting, 5:30 FCHS

April 15 Reforest Frankfort, KSU Research Farm

April 19 Brunch & Learn – Spring Forage Considerations, 8:30 UPI Stockyard Owenton

April 20 KSU Third Thursday, 9:00 KSU Research Farm

April 20 Bull Selection BSE Training, 6:30 United Producer's Stockyard Owenton

April 20-22 FCCD Metal Recycle; 8-4:30 (8-noon Saturday) Lakeview Park

April 21 User's Guide to EPDs, 5:30 United Producer's Stockyard Owenton **April 22** Household Hazardous Waste, 9-12 City Recycle Center, Rouse Ave

April 26 KSU MPU Training, KSU Research Farm

April 28 FCHS Drive Your Tractor to School Day, 8:00 Extension Office to FCHS

April 28 CAIP Reporting/receipt Deadline, 4:00

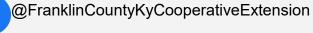
April 29 Master Gardener Plant Sale

April 29 2023 Goat Field Day

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

Keena R Bisty

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





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Family and Consumer Sciences
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