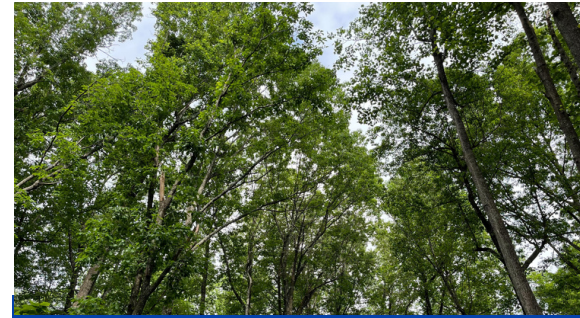


OF WHEAT & WINDROWS AGRICULTURE AND NATURAL RESOURCES NEWSLETTLER June 2023



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

Boyle County Extension
99 Corporate Drive
Danville, KY 40422
Phone: (859) 236-4484



May Cattle on Feed Down 3 Percent

By: Dr. James Mitchell, University of Arkansas

USDA-NASS released the May Cattle on Feed report last Friday, providing us with the fifth data point of the year for cattle on feed numbers. According to the report, the number of cattle and calves on feed in feedlots with a capacity of 1,000 or more head was 11.6 million on May 1, 2023, 3.4 percent lower than the previous year. Overall, except for cattle placement numbers which we will discuss shortly, there were no major surprises in the report. Everyone expected the report stick with the trend we have observed all year, declining cattle numbers across the board.

Overall, the United States cattle on feed inventory was 97% of the previous year. Most states showed a decrease in cattle on feed inventories compared to May 1, 2022. Feedlot inventories in Texas and Oklahoma were 96% and 91% of the previous year, respectively. Kansas feedlot inventories were 2% lower compared to last year. Cattle on feed inventories were 5% lower in Nebraska and 2% higher in Iowa. This year cattle on feed numbers are averaging 4% below last year's inventories. Until now, feedlot inventories set the stage for grilling season beef production. Most recently, in the May WASDE, USDA expects second-quarter and third-quarter beef production to decline by 7% and 4%, respectively.

To read more click [HERE](#).

In this Issue

Cattle on Feed Down.....	1
Pond Aeration.....	2
Armyworm Reports.....	3
June Grazing Tips.....	4
Poultry Webinar.....	4
Dates to Know.....	5
Agent Remarks.....	5
Pest Mgmt. Field Day.....	6
From the Woods Today.....	7
Beef IRM Calendar.....	7
KSU TTT.....	8
2023 KY WOSC.....	9
Oven Fried Fish Fillets.....	10
Dead Animal Removal.....	10
ANR Facebook.....	10



Use of Aeration and Water De-stratification Devices in Recreational Ponds

Forrest Wynne, State Extension Specialist for Aquaculture,
Kentucky State University

Pond Stratification

During winter, reduced solar heat cools air temperatures which lower water temperatures in ponds. Except for periods of occasional ice cover, water in southern ponds are well mixed by wind and rain from the late fall through the spring months. During this time, constant water mixing results in relatively uniform water temperatures throughout the ponds' water column.

Water "stratification" will occur in some ponds during the warm weather months. This process begins when sunlight warms the waters near the pond's surface during spring and summer. With increasing depth, this warming influence is diminished due to the loss of the sun's energy as light penetrates into the water column and is absorbed. This allows cooler waters to accumulate throughout the summer months at depths where sunlight is not present. Depleted dissolved oxygen conditions may result in deep waters due to the absence of oxygen producing plants and algae that can not survive without sunlight. Organic matter will accumulate and decompose on the pond bottom which consumes even more oxygen. These cooler waters will remain near the pond bottom until they are displaced by sinking surface waters made colder from lower air temperatures, wind or heavy rains.

Pond "Turnover"

Pond turnover is a term used to describe the sudden mixing of stratified waters in a pond. This process will frequently occur during the summer or the first cool days of fall. Water that has sat near the pond bottom throughout the warm summer months will be forced to the surface when surface waters become cooler than the deeper water. Dissolved oxygen may be depleted throughout the entire pond provided there is a large enough volume of oxygen deficient water present. The sudden mixing of these waters may cause an algal bloom die off, a fish kill, or both.

To read more click [HERE](#).

Reports of True Armyworm in Hay in Central and Western Kentucky

Dr. Ric Bessin, Entomology Extension Specialist,
University of Kentucky

This past week, there were a few reports of large numbers of armyworms in hay fields collecting on equipment as the fields were being cut. This is a different species from the fall armyworm that had an outbreak in soybeans, alfalfa, and pastures two years ago. In general, true armyworm, also known just as armyworm, tends to be more of a spring pest of grasses and corn. Fall armyworm, as its name implies is more of a late season pest beginning mid-July until frost.

Habits & Description

Infestations usually first develop in fields of small grains or other grasses. In conventional tillage systems, partially-grown larvae can migrate into corn fields from grassy waterways or wheat fields; damage is usually first noticeable around the field margins adjacent to these areas. The name armyworm derives from its behavior of migrating in large numbers into fields similar to invading armies. In no-till or reduced tillage corn crops, infestation may cover the entire field. In these systems, eggs may be laid on grasses within the field prior to planting and herbicides may force armyworms to feed on corn as the weeds or cover crop dies. Cool, wet spring weather usually favors armyworm development.

The armyworm has a greenish brown body with a thin stripe down the center and two orange stripes along each side. The head is brown with dark honeycombed markings. Armyworm overwinters as partially grown larvae in grasses or small grain fields in Kentucky. When warm spring temperatures return, armyworm feeding resumes. Armyworms may move onto corn during this period. When feeding is completed, larvae pupate just below the surface of the soil. Adults of the first generation emerge in April and May and feed on nectar for 7 to 10 days before beginning to lay eggs. There are three to four generations per year in Kentucky.

As with fall armyworm, true armyworm usually feeds at night preferring to feed on the succulent leaves in the whorl first. During the day, armyworms are found in the soil or underneath ground cover. Ragged leaf feeding on leaf margins in the spring and early summer is consistent with armyworm feeding.

Monitoring & Management

In hay fields and pastures, treatments for armyworm is based on monitoring. As with fall armyworm, true armyworm often hides under debris on sunny days, so monitoring is best done in the late afternoon or early evening. The same threshold is used for both true armyworm and fall armyworm: 2 to 3 per square foot. Materials listed for fall armyworm control in ENT-17 are also effective against true armyworm.

June Grazing Tips

Clip Pasture for weeds and seedheads as needed.

Use portable fencing to increase paddock numbers to allow longer recovery periods.

When present, crabgrass and johnsongrass can provide high quality summer grazing.

Begin grazing native and warm season grasses at 18-20" and stop at 8-10".

Doing Fecal Flotations for the Identification of Intestinal Parasites of Poultry

June 6, 2023

3:00 PM EST

Often poultry owners think they have to routinely treat their flocks for intestinal parasites, but properly managed flocks should not have intestinal parasite problems. Flocks should only be treated if they are infested. A fecal flotation can help identify an intestinal parasite problem. Dr. David Frame, DVM from Utah State University, will be discussing how a fecal flotation is done and how to identify the intestinal parasite if present.

Register in advance for this webinar:

https://uky.zoom.us/webinar/register/WN_gK6Wldn1RSuj-J3qPOoFMQ#/registration

Dates to Know

June

- 1st-** Hay Quality 101 Field Day at RCARS, Jackson KY.
- 3rd-** Kentucky Sheep & Wool Producers Field Day at Winding Creek Farms
801 Muse Hollow Road, Tompkinsville, KY 42167.
- 7th-** Electric Fencing for Serious Graziers
- 7th-8th-** KATS Drone Pilot Certification Prep Course
- 13th-17th-** Boyle County Fair
- 15th-** KSU Third Thursday Thing
- 29th-** Pest Management Field Day (Grain Crops IPM) at UKREC (Princeton)

July

- 13th-** KATS Spray Clinic
- 20th-** KSU Third Thursday Thing
- 25th-** UK Corn, Soybean, Tobacco Field Day at UKREC Farm, Princeton,
Kentucky
- 29th-** Kentucky Woodland Owners Short Course in Boyle/Casy Counties.

Agent Remarks



Hello,

I hope everyone is having a good Spring. It's been great to get out and meet new people. During the month of May I was able speak to the Rotary Club and help organize Agriculture Day for Leadership Boyle County, highlighting Boyle County Agriculture and ANR Extension!

Tyler Ray

Contact me at:
(859)236-4484
tyler.ray@uky.edu

2023 Pest Management Field Day at the UKREC Farm June 29, 2023

Location: 1205 Hopkinsville St., Princeton, KY 42445
Time: 8:30 a.m. to 12:30 p.m. CDT — Sign-in begins at 8 a.m. CDT



Pre-registration is highly recommended by June 22, 2023
by either scanning QR Code, clicking web link, or by telephone.

https://uky.az1.qualtrics.com/jfe/form/SV_4PjveAug6mK9rXU

Or contact the UKREC at (270) 365-7541, ext. 22569.

Topics and Speakers

- Palmer amaranth and Waterhemp control *Travis Legleiter*
- Weed Control in early planted soybean
- Weed Control in corn
- Italian ryegrass Research Update
- Herbicide Resistant Johnsongrass *JD Green*
- Weed Management utilizing cover crops *Erin Haramoto*
- Corn Disease Research Update *Kiersten Wise*
- Entomology Research Update *Raul Villanueva*

Continuing Education Units for
Certified Crop Advisors and Kentucky pesticide applicators available

Follow us on Twitter: @TravisLegleiter and @KYGrainCropsIPM

Like us on Facebook: KY Grain Crops IPM

Cooperative Extension Service
Agriculture and Natural Resources
Family and Consumer Sciences
4-H Youth Development
Community and Economic Development

Educational programs of Kentucky Cooperative Extension serve all people regardless of economic or social status and will not discriminate on the basis of race, color, ethnic origin, national origin, creed, religion, political belief, sex, sexual orientation, gender identity, gender expression, pregnancy, marital status, genetic information, age, veteran status, or physical or mental disability. University of Kentucky, Kentucky State University, U.S. Department of Agriculture, and Kentucky Counties, Cooperating.
LEXINGTON, KY 40546



Disabilities
accommodated
with prior notification.



www.FromTheWoodsToday.com

From the Woods Today is a weekly internet show co-hosted by Renee' Williams and Billy Thomas with UK Forestry and Natural Resources Extension. The show airs live on Wednesdays at 11 a.m. EDT. Links to live shows are posted on www.fromthewoodstoday.com just prior to the show. Join us live by clicking the watch LIVE above or watch recorded shows below.

Upcoming Shows

June 7- Building Community Forest Networks, What's Bugging My Tree?

June 14- Timber Treatments for Birds, Food Plot Program

June 21- Pollinator Month, Tree of the Week

June 28- Spotted Lantern Fly, Tree of Heaven, Citizens Science Opportunity

www.fromthewoodstoday.com

2023 Beef IRM Calendars

2023 Beef IRM calendars are here. These calendars are a helpful tool to help manage your herd. Each month provides timely tips and recommendations.

Pick up at Boyle County Cooperative Extension Office (99 Corporate Drive, Danville, KY 40422.

Call (859)236-4484 to confirm availability!



THIRD THURSDAY THING

Every third Thursday of the month,
January through November, at 10 a.m. ET

~~January 19: USDA Farm and Home Loans | Natural Resource Management~~

~~February 16: Organic Agriculture~~

~~March 16: Small Ruminants~~

~~April 20: Pest Control | NRCS Programs~~

~~May 19: Aquaculture~~

June 15: Farmers Markets | Juneteenth Celebration

July 20: Fencing | Pastured Poultry

August 17: Sustainable and Organic Agriculture

September 21: Pawpaw

October 19: Small Ruminants

November 16: Small Farms Conference

Join us in person at the Harold R. Benson
Research and Demonstration Farm or online
at [YouTube.com/kysuag/live](https://www.youtube.com/kysuag/live)



**KENTUCKY STATE
UNIVERSITY**

Cooperative Extension Program

This institution is an equal opportunity provider.

Kentucky Woodland Owners Short Course

June - July 2023

On-line Sessions
Via Zoom
7 - 8:30 p.m.
Eastern

Kentucky
Woodland
Owners
Short Course



June 20
Your Trees, Your
Woodlands, Your
Options



June 22
Woodlands and
Climate Change



June 27
Wildlife and Woodlands



June 29
Woodland Health

Registration for all 4 on-line sessions: \$10 per person

Registration for all 4 on-line sessions, 1 field session with lunch, a clipboard binder, and reference resources: \$20 per person/\$30 couple



Field Session Locations (9:30 a.m. - 3:30 p.m.):

July 15 - Pennyryle State Forest (Christian County - Central time)

July 29 - Elk Caves Farm (Boyle/Casey counties - Eastern time)

Register at <https://wosc.ca.uky.edu/>

Contact Us:

Forestry.Extension@uky.edu

859.257.7597

<https://wosc.ca.uky.edu/>

 College of Agriculture,
Food and Environment
Forestry and Natural Resources Extension

Recipe

Over Fried Fish Fillets



Oven-Fried Fish Fillets

- 1 pound fish fillets
- 2 tablespoons lemon juice
- 2 tablespoons vegetable oil
- ¼ cup shredded parmesan cheese
- ¼ teaspoon dill weed
- ¼ teaspoon salt
- ¼ 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.

Soil Testing

Just a reminder Boyle County Extension Office offers **FREE** soil testing to anyone in the county up to 40 samples per person per year. For soil sample bags or more information call the Boyle County Extension Office at (859)236-4484.

Dead Animal Removal

The Boyle County Conservation District and the Boyle County Fiscal Court sponsors the removal of deceased animals in Boyle County. If you have a deceased animal **call (859) 238-1137**, Monday through Friday from 8:00 am to 4:30 pm. The deceased animal needs to be in an accessible area for pick up.



Be sure to follow the **Boyle Co. Agriculture & Natural Resources** on Facebook to stay up to date on events, classes and surveys.



Tyler Ray

Tyler Ray, County Extension Agent for Agriculture and Natural Resources

Cooperative Extension Service
Agriculture and Natural Resources
Family and Consumer Sciences
4-H Youth Development
Community and Economic Development

Educational programs of Kentucky Cooperative Extension serve all people regardless of economic or social status and will not discriminate on the basis of race, color, ethnic origin, national origin, creed, religion, political belief, sex, sexual orientation, gender identity, gender expression, pregnancy, marital status, genetic information, age, veteran status, or physical or mental disability. University of Kentucky, Kentucky State University, U.S. Department of Agriculture, and Kentucky Counties, Cooperating.
LEXINGTON, KY 40546



Disabilities accommodated with prior notification.