

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

DECEMBER 2022

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.

Changes to the Private Pesticide Applicator Program in 2023 by Ric Bessin

In December of 2016, the EPA published the final rule to improve pesticide applicator certification and training standards. Implementation of this plan has been plagued by delays, but our new plan for Kentucky has been reviewed and approved and we are set to begin using it at the start of 2023. This is the most significant change to the program since 1978. There are some significant changes in how we operate the program that I will outline in this article.

Age and Identity

Only persons 18 and older are qualified to become private applicators. The EPA requires that applicators present a government issued photo ID in order for county agents to verify their age and identify. County agents must use this to verify age and identity, but do not need to record this information. For those that do not have a government issued photo ID due to some specific reasons, there are some alternative methods of verification that can be used.

Non-certified Applicator (NCA) Under Direct Supervision of a Certified Applicator

A new category of applicator has been created to work under the supervision of certified private applicators on farms. This is the “Non-certified Applicator under the Direct Supervision of a Certified Applicator.” These applicators must be trained annually and be supervised while applying general use pesticides. They cannot apply restricted use pesticides. There are a number of responsibilities for the supervising certified applicator beyond training and supervision. While any certified applicator can conduct the annual training of non-certified applicators, there is specific content that must be covered in each annual training. We are developing a Non-Certified Applicator card that can be issued from the county office for NCAs to carry to verify their training.

Fumigation and Aerial Application Training

The EPA now requires specialized training and certification for fumigation and aerial applications. As such, applicators using fumigation or applying pesticides aerially, either manned aircraft or drone applications, will need to be certified in the appropriate commercial category. Through KY statutes, farmers applying general use pesticides to their own land or land they rent using ground equipment are exempt from needing to become certified private applicators, but this exemption does not apply to aerial applications. So, drone applications of any type of pesticide must be done by category II applicators. Persons using fumigation will need to certify in one of the commercial categories for fumigation depending on what they are treating; soil, non-soil or structures.

Terms of Certification

The KDA has brought the length of the certification for private applicators in line with commercial applicators. Both of these groups will be certified for up to three years which includes the year they were trained. Previously, private applicators were given three years plus the year they were trained in. There is no fee charged to those certified as private applicators.

New Core Competency Standards

Core competencies for private applicators have been expanded to include 11 core competency areas: label comprehension and understanding, understanding of pesticide safety, understanding of how to protect the environment, recognizing common pests and diseases, knowledge of characteristics of pesticides, understanding of pesticide application equipment and calibration, knowledge of pesticide laws and regulations, responsibilities of supervisors of non-certified applicators, pesticide safety and professionalism, and general knowledge of agricultural pest control. Persons becoming private applicators are expected to meet these core competency requirements.



**HICKMAN COUNTY
COOPERATIVE EXTENSION
PESTICIDE
CARD
RENEWAL**



**Hickman County Extension Office
329 James H. Phillips Drive, Clinton KY 42031**

January 25, 2023 - 3:00 PM

February 7, 2023 - 9:00 AM

February 13, 2023 - 9:00 AM

For more information call Hickman County
Extension office at 270-653-2231

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The Economic Value of Applying Broiler Litter in the Fall 2022

Author(s): Jordan Shockley Published: November 29th, 2022

Spring application of broiler litter is ideal for maximizing the economic value but faces challenges that include wet soil conditions, lack of time to spread litter near planting, and availability of litter in the spring. Therefore, it is a common practice in Kentucky to apply broiler litter in the fall. While not optimal from an economic, agronomic, or environmental perspective, producers still need to understand the economic value from applying broiler litter in the fall.

Litter applied in the fall to fallow cropland will suffer from ammonium volatilization and leaching resulting in little to no nitrogen available to the crop come spring. This results in an economic value less than if applied in the spring. To evaluate the economic value of broiler litter applied in the fall, first assume that soil test recommendations indicate the need for phosphorus and potassium. Also, assume that "as received" broiler litter has a nutrient content of 50 lbs of nitrogen, 56 lbs of phosphorus, and 47 lbs of potassium (average for Kentucky). Broiler litter also contains calcium, therefore also has a lime value. With current high fertilizer prices of \$825/ton for urea (\$0.90/lb N), \$930/ton for DAP (\$0.66/lb P₂O₅), \$857/ton for potash (\$0.71/lb K₂O), and \$13.50/ton for lime (at the quarry), the expected value of broiler litter applied to fallow cropland in the fall is \$65/ton. This value should cover the price paid for the litter, transport, and application to compete with commercial fertilizer when applied in the fall. The value of broiler litter increases to \$88/ton if it is spread in the fall to cropland that has a cover crop planted. Both fall broiler litter prices are up significantly (~20%) compared to 2021 and have more than doubled compared to 2020. This is directly attributed to the steep increases in all fertilizer prices compared to this time last year. Applying broiler litter for grain crop production in 2023 is a great strategy to combat higher commercial fertilizer prices if the total cost of litter is favorable and litter is readily available in your area.

If availability of litter in the spring is a concern, stockpiling litter purchased in the fall can be an option if local, state and federal regulations allow. With the correct storage techniques and a properly staked litter pile, producers can expect minimum nutrient loss for spring application. If the same

commercial fertilizer prices hold, the average broiler litter in Kentucky would have a value of \$92/ton if properly stored and applied in the spring.

The value of broiler litter differs in the fall if applied to pastures or land for hay production. If applying broiler litter to an established stand of alfalfa with a legume mix of <25% of the stand, the average broiler litter in Kentucky at current commercial fertilizer prices has a value of \$101/ton.

The value of broiler litter will vary based on grass type, established stands vs. new seeding/renovation, and whether the land is used for hay, pasture, or silage.

Since the value of broiler litter is dynamic and always changing, decision tools have been developed so producers can enter soil test data, nutrient content of measured litter, commercial fertilizer prices, and management practices of broiler litter applied to determine the value. Tools for applying litter to both grain crops and land in hay/pasture/silage are available and can be found on the Agricultural Economics website for budgets and decision tools.

Recommended Citation Format:

Shockley, J. "The Economic Value of Applying Broiler Litter in the Fall of 2022." Economic and Policy Update (22):11, Department of Agricultural Economics, University of Kentucky, November 29th, 2022.

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UPCOMING EVENTS

Jan 5, 2023	UK Winter Wheat Meeting
Jan 19, 2023	KY Commodity Conference - Bowling Green
Feb 9, 2023	Kentucky Crop Health Conference - Bowling Green
Feb 23, 2023	KATS In-depth Mode of Action
March 9, 2023	KATS Soil Fertility and Assessment
March 9-11, 2023	National Commodity Classic - Orlando FL
May 09, 2023	UK Wheat Field Day
May 18, 2023	KATS Crop Scouting Clinic
June 7-8, 2023	KATS Drone Pilot Certification Prep Course
June 29, 2023	Pest Management Field Day - Princeton
July 13, 2023	KATS Spray Clinic
Jul 25, 2023	UK Corn, Soybean and Tobacco Field Day

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*****Free Soybean Cyst Nematode Testing (paid for by KY Soybean Promotion Board):**
The Kentucky Soybean Board is continuing to fund free soybean cyst nematode (SCN) testing. Fall and Spring (before planting) are the best times to collect soil samples from fields for SCN testing. To take advantage of the free SCN testing call the office at 270-653-2231.***

2023 Winter Wheat Meeting

James E Bruce Convention Center
303 Conference Center Dr., Hopkinsville, KY 4224

TOPICS INCLUDE:

- ▶ **Changes To The Pesticide Applicator Programs In 2023**
- ▶ **Managing Important Wheat Diseases With Fungicides**
- ▶ **Kentucky Weather And Climate Outlook, Trends, And Monitoring**
- ▶ **Improving IPM For Insect Control For Stored Grains**
- ▶ **Economics Of Fungicide Application Timing**
- ▶ **Soil Fertility Update, The Latest Research**
- ▶ **Weed Control In Winter Wheat Update**
- ▶ **Wheat Crop Condition Update**
- ▶ **Wheat Issues On The National Front**

 University of
Kentucky
College of Agriculture, Food and Environment
**Grain and Forage
Center of Excellence**

January 5, 2023
9 am-3 pm CT
Registration 8:30 CT

CCA & Pesticide
credits pending
approval.



For additional information email daurent@uky.edu

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Santa Fe Rabbit Soup

Servings:10 Serving Size:1 1/2 cups
rabbit soup

This rabbit soup is slow cooker magic!



Ingredients:

- 1 (3 pounds) rabbit, cut up
- 1 (7 ounces) can chopped green chilies, drained
- 1.5 cups frozen or canned corn, drained
- 1 (28 ounces) can no-salt added diced tomatoes
- 1 (15 ounces) can low-sodium black beans, rinsed
- 1 (14 ounces) can low sodium vegetable broth
- 1 (32 ounces) box low sodium chicken broth
- 3 tablespoons reduced-sodium chili seasoning mix

Directions:

Place all ingredients in slow cooker. Simmer on low 6 to 8 hours. Remove rabbit and remove meat from bones. (Be careful, rabbit will be hot so use a utensil to help.) Return rabbit meat to soup. Stir to combine and serve. Freeze leftovers in freezer bags or freezer container.

Source: Adapted from “2015 Food and Nutrition Calendar Kentucky Favorites”
Nutrition facts per serving: 260 calories; 3.5g total fat; 1g saturated fat; 0g trans fat; 110mg cholesterol; 320mg sodium; 19g carbohydrate; 4g fiber; 4g sugars; 35g protein; 0% Daily Value of Vitamin D; 4% Daily Value of Calcium; 35% Daily Value of Iron; 15% Daily value of Potassium

For more information follow us at
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Agent for Agriculture and
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