

CARTER COUNTY
AGRICULTURE & NATURAL RESOURCES
NEWSLETTER



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

Carter County

94 Fairground Drive Grayson, KY 41143

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extension.ca.uky.edu

SEPTEMBER 2023 UPCOMING EVENTS

Denotes events where preregistration is required. Call 474-6686 or email Rebecca.k@uky.edu to register.

September 5 @ 6:30 PM	Little Sandy Beekeepers —Extension Office
September 7 @ 1:00 PM	Hike & Learn —Laurel Gorge Cultural Heritage Center
September 12 @ 10:00 AM	District Board Meeting —Extension Office
September 12 @ 6:00 PM	CAIP Informational Meeting —Extension Office
September 18	Deadline to request Hay Samples for East KY Hay Contest
September 26 @ 5:00 PM	Farm & Family Field Day —Wells Farm
October 3 @ 6:30 PM	Little Sandy Beekeepers —Extension Office
October 5 @ 1:00 PM	*Tree Farmer of the Year Field Day —Lynn Johnson Tree Farm*
October 11-12	*UK AI School —Woodford County Research Farm*
October 12 @ 5:30 PM	*Sheep & Goat Hoof Trimming Clinic —Elliott County Extension*
October 14 @ 10:00 AM	CAIP Informational Meeting —Extension Office
October 24 @ 6:00 PM	*East KY Hay Contest Results —Wolfe County Extension*
October 26 @ 6:00 PM	Northeast Area Livestock Association —Extension Office

Weeds of the Month

Weeds to Target in September: Asters, Chicory, Common Milkweed, Multiflora Rose, Red Sorrel, Trumpet creeper - - - See AGR-207 in January's newsletter online at tinyurl.com/5uusk6np for recommended chemical and mowing options for these weeds.

Enjoy your newsletter,

Rebecca Konopka,
Carter County Extension Agent for Agriculture &
Natural Resources Education



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.

Little Sandy Beekeepers Association

First Tuesday of the Month @ 6:30 PM

September 5th

Speaker: Kent Williams

Topic: Closing Up for Winter



October 3rd

Speaker: Jim Coss, The Honey & Bee Connection

November 7th

Speaker: Dr. Tammy Horn Potter, KY State Apiarist

Sheep & Goat Hoof Trimming Clinic

ELLIOTT COUNTY EXTENSION OFFICE

THURSDAY, OCTOBER 12
5:30 PM

CALL 606-738-6400 TO REGISTER.
SPACE IS LIMITED.

HOSTED BY THE CARTER & ELLIOTT COUNTY EXTENSION OFFICES.
MEAL WILL BE PROVIDED.
EACH FAMILY WILL RECEIVE A FREE HOOF TRIMMER.



PAID FOR BY THE KENTUCKY SHEEP AND GOAT COUNCIL



HIKE & LEARN

First Thursday of the Month

September 7th @ 1:00 PM

Laurel Gorge

Cultural Heritage Center

Hike Focus: Ferns

Length: 1.5 miles

Difficulty: Moderate

We will be hiking the main trail to the creek trail with Camila Haney as our guide.

COOPERATIVE



EXTENSION

BEEF BASH

UNIVERSITY OF KENTUCKY



Thursday, September 21

C. Oran Little Research Center
1051 Midway Rd. Versailles, KY

Registration opens at 1:30 PM

Program begins at 2:00 PM

Tickets are \$15 and include meal.

VISIT WITH:

- Commercial Exhibitors
- Research Demonstrations
- Educational Exhibits
- KY Ag Leaders
- UK Personnel & Admin
- KCA Leadership & Staff

Register by searching
[Beef Bash 2023](#) at [Eventbrite.com](#)

Tyler Purvis, UK Beef Extension
tapu228@uky.edu (859) 257-7512



UK Martin-Gatton
College of Agriculture,
Food and Environment



Farm & Family Field Day

Wells Farms

Tuesday, September 26, 2023

5:00pm	Registration Begins
6:00pm	Walking Tour Begins
7:15pm	Supper



From Grayson, head south on route 1, toward Hitchens, for 2.6 miles. Wells Farms is on the left at mile marker 8. There is a red, barn-shaped sign at the entrance.



Speakers:

- Dr. Kenny Burdine, Cattle Marketing
- Tony Burnett, Soil Health & Sustainability
- Dr. Ric Bessin, Dealing with Garden Insect Pests



Equipment Displays

Booths from local businesses & organizations

Youth Activities

Door Prizes

*Counts for CAIP Educational Credit & 4-H Livestock Hours

Please bring your favorite dessert to accompany the meal and as an entry for the Dessert Contest. Categories are: Cake, Pies, Cookies, KY Proud & Youth

Cooperative Extension Service

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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.



KENTUCKY TREE FARMER OF THE YEAR FIELD DAY



Hosted by:

**Lynn Johnson Tree Farm
Olive Hill, KY (Carter County)**

October 5, 2023 | 1:00 - 6:00 pm (ET)

Sponsored by: Kentucky Tree Farm Committee, UK Forestry and Natural Resources Extension, Kentucky Division of Forestry, Carter County Cooperative Extension Office, Kentucky Sustainable Forestry Initiative Implementation Committee, Kentucky Forest Industries Association, Natural Resources Conservation Service, and the Kentucky Department of Fish and Wildlife Resources.



Choose one of two ways to register:

1. call the Carter County Extension Office: 606.474.6686
or the UK Forestry Extension Office: 859.257.7597
2. scan this QR code

Please register by September 29th

**Seating will be limited, we encourage guests to bring their own camp chairs.*



Kentucky Tree Farmer of the Year Field Day Thursday, October 5, 2023 | 1:00 - 6:00 pm (ET)



Agenda

- 1:00 pm
- 1:30 pm
- 2:00 pm

- 5:00 pm
- 6:00 pm

- On-site Registration
- Welcome, Introductions, and Tree Farm Presentation
- Tree Farm Tour Begins
 - Woodland Management Practices
 - Wildlife Management Practices
 - Financial Assistance for Conservation Practices
- Dinner and Fellowship
- Adjourn



Directions to the Tree Farm:

The Tree Farm is located at 720 Boathouse Hill Rd., Olive Hill, KY 41164 between Morehead and Grayson.

You can also click (or type into a web browser) this web address <https://goo.gl/maps/u7eXakKR5SuDCPca6>, once there you can enter your starting location in the upper left corner of the screen to receive customized directions from your location.

**Seating will be limited, we encourage guests to bring their own camp chairs.*

CAIP Informational Meetings

Tuesday, September 12 @ 6:00 PM

Saturday, October 14 @ 10:00 AM

Meeting Location: Carter County Extension Office

CAIP Cost Share Applications will be available soon from the Soil Conservation Service. Two informational meetings have been set to discuss the upcoming application. These meetings do NOT count for CAIP Educational Credit but will count for application points. You only need to attend one meeting (you will not receive double points for attending both meetings.)

UK Pregnancy Diagnosis and AI School

On October 11th and 12th, the Woodford County Research Farm will be hosting the UK AI and Pregnancy Diagnosis school. Dr. Les Anderson and partners from Select Sires Mid-America will be leading instruction on proper AI procedure as well as pregnancy diagnosis. Class will begin at 10 am each day and end at 4 pm. Lunch will be provided.

Register and pay online by scanning the code or by calling call 859-257-7512 .



Amiflex – A New Restricted-Use Miticide for Beekeepers

Photo & Article By Ric Bessin, Entomology Extension Specialist

The Environmental Protection Agency (EPA) recently registered Amiflex as the first ‘flash’ treatment to control varroa mite in commercial honey bee colonies. This product is designed to provide quick knock-down of varroa mite and should be best used in a comprehensive program with other slow release varroa mite control products. The active ingredient in Amiflex is amitraz. This product can be used between honey flows, has no temperature restrictions, and is safe for all bee stages. It comes in a dosing gun and is formulated as a gel applied to the top bars of brood boxes. It can be applied up to 4 times per year with a minimum of 7 days between applications. It is intended for commercial beekeepers, and as such, it is sold in quantities to treat 100 to 200 colonies.

Use Requirements—Amiflex is a Restricted-Use Pesticide (RUP) that will require that those purchasing or using the product be certified pesticide applicators. The RUP notice on the label indicates that this designation is ‘due to acute toxicity to humans.’ A private applicator certification will be required for those applicators treating their own colonies or colonies belonging to others for no charge, while a commercial license is needed for those treating colonies of others for a fee. A private applicators license can be obtained through your local county Extension office at no cost and lasts for 3 years. However, most of the training for the private applicator’s license is focused on other areas of agriculture rather than beekeeping.



Personal Protective Equipment—In terms of personal protective equipment, applicators and other handlers of Amiflex must wear overalls worn over long-sleeved shirt and long pants, socks and chemical-resistant footwear, waterproof or chemical-resistant gloves made of barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, or viton ≥14 mils, and protective eyewear, such as goggles, face shield, or safety glasses. Note that there are many types of gloves that don’t match these specifications; applicators need to find gloves that match these requirements.

Timing of Applications— Amiflex must not be used when honey supers are present. It must be used before, after, or between honey flows. It is applied to support pieces placed on top frames. After the 7-day treatment period is over, supers can be replaced on the colonies once the supports are discarded, as well as any potential treatment leftover is removed.

Do Smoky Skies Reduce Crop Yield?

Dr. Dennis Egli, UK Professor Emeritus

Smoke from forest fires in Canada recently produced hazy conditions in parts of the Midwest, the East and the Mid-South. Smoke and haze reduce the solar radiation reaching the earth's surface. Will this reduction reduce crop yields? This is a logical question given that photosynthesis produces yield and the energy to drive photosynthesis comes from solar radiation. Reducing solar radiation should reduce yield – right? It's not that simple.

Yes, the reduction in solar radiation will reduce photosynthesis, but that doesn't automatically translate into lower yield. First, the relationship between solar radiation levels and photosynthesis is not a straight-line relationship (to put it another way, the relationship curves over as solar radiation increases), so the decrease in photosynthesis is less than the decrease in solar radiation. For example, in a field experiment with soybean, 63% shade (much much greater than reductions from smoke and haze) from planting to maturity only reduced the yield by 50%. The solar radiation – photosynthesis relationship in corn is closer to a straight line, but still the reduction in photosynthesis from a 20% reduction in solar radiation, for example, would be less than 20%.

Secondly, smoky conditions increase the proportion of solar radiation that is diffuse (as opposed to direct radiation). Diffuse radiation occurs when the radiation from the sun bounces off the dust, smoke particulate matter, and other pollutants in the air and arrives at the surface from all directions (direct radiation comes in a straight line from the sun). Diffuse radiation penetrates farther into the plant canopy resulting in a more even distribution of radiation over the leaves and higher photosynthesis. The benefits of diffuse radiation may be larger on the relative compact soybean canopy compared with the more upright leaves in the corn canopy.

Finally, reduced solar radiation will reduce water use (evapotranspiration, ET), which could be a positive effect for fields experiencing drought stress. The first step in the ET process is the conversion of water from a liquid to vapor which requires energy from the sun, so reducing solar radiation could reduce ET. Any reduction in ET would probably be relatively small and may be important only in marginal situations when the crop is just beginning to experience drought stress.

Reductions in photosynthesis during vegetative growth rarely carry over to yield unless there are large reductions in plant size. Lower photosynthesis during vegetative growth will reduce plant size and leaf area; if this reduction is large enough to reduce solar radiation interception during reproductive growth, yield will be reduced. If not, the smaller plants will not result in lower yield. When we shaded soybean communities (30 and 63% shade) in the field from planting to growth stage R1 (initial bloom), total plant dry weight at R1 was reduced by 20 (30% shade) and 42 (63% shade) %, but there was no effect on yield. The smaller plants still intercepted all of the solar radiation, so size did not affect yield.

The overall effect of smoky skies on crop yield is the result of one negative effect (less solar radiation and less photosynthesis), one positive effect (more diffusive radiation and higher photosynthesis) and one possible positive indirect effect (reduction in drought stress). The combined effect on yield is hard to predict as it depends on how much smoke and haze is in the sky (how much the solar radiation is reduced and the proportion of diffuse radiation is increased), the water status of the crop and how long and when (before or after flowering) the smoke and the reduction in photosynthesis occurs.

At this point in the growing season, most of the smoky days occurred during vegetative growth, so, my best guess is that yield potential of corn and soybean has not been affected. I don't think smoke is worth worrying about unless we get a lot more smoke later this summer and, even then, it's usually better not to worry too much about things we can't control. Practicing up on your rain dance might be a better strategy this year if you are going for maximum yield.



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RETURN SERVICE REQUESTED

SEPTEMBER 2023

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