



1117 Frankfort Road • Shelbyville, KY 40065
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4-H Food-A-Rama

July 25

10 a.m.



See Page 7 for Details



- Laugh & Learn Play Date
- Come play Bingocize!
- Learn to successfully home can
- Pop-up Farmer's Markets
- Christmas in July
- AARP Smart Driver Course
- Sewing Circle Teaser
- Come join Extension Homemaker fun!

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AG PROGRAMS

- ⇒ Water is Nutrient #1 for Horses
- ⇒ Safely Handling Chicks
- ⇒ Reports of True Armyworm in Hay in Central & Western Kentucky



Horticulture Controlling Japanese Beetles



Online Master Gardener Program



First Saturday Walkabout

Saturday, July 1
Saturday, August 5



Don't forget about participating in the monthly **First Saturday Walkabout!** On the first Saturday of every month, sign in at the front desk of Clear Creek FAC between 8—8:30 a.m. and you will receive one FREE Day Pass per person. After signing in, you can walk on the trails, on the walking path, or on the inside walking track. You can use your pass at any later date of your choosing.

Laugh & Learn Play Dates

Wednesday, July 19, 10 a.m.
Theme: Summer/Sun
Thursday, August 17, 10 a.m.
Theme: Apples

A free monthly playdate for children ages 3-5 and their caregiver. The program engages child(ren) in playful activities that are specifically designed to prepare them for kindergarten. Your child(ren) will listen to a story, sing songs, make crafts, play games, and enjoy a healthy snack. Parents/guardians must also attend the program to support their child(ren) through the activities. Register by calling 633-4593.



Come Play Bingocize!
Starting August 1 at 1 p.m.



Bingocize® is a 10-week (FREE!) health promotion program that combines the game of bingo with exercises, aimed to prevent falls. Come play bingo, win prizes, and meet new people while learning about techniques to reduce falls. We meet twice a week on the dates listed below. Register now!

(Bingocize! Dates)

- | | |
|----------------------|-----------------------|
| Aug. 1, 3 (Tu, Th) | Sept. 5, 8 (Tu, F) |
| Aug. 8, 10 (Tu, Th) | Sept. 11, 13 (M, W) |
| Aug. 16, 18 (W, F) | Sept. 18, 20 (M, W) |
| Aug. 22, 24 (Tu, Th) | Sept. 26, 28 (Tu, Th) |
| Aug. 29, 31 (Tu, Th) | Oct. 3, 5 (Tu, Th) |

Canning Basics Workshops

August 4, 10 a.m.
August 8, 6 p.m.



Interested in learning how to safely home can? Or interested in honing your skill and brushing up on best practices? Join us for this hands-on workshop where we will cover the basics of home canning. Learn the methods of boiling water canning, pressure canning, and which canner to use based on the food you process.

Shelbyville Pop-up Farmers Market

Friday, July 7, 3-6 p.m.
In front of Shelby County Health Department

Featuring peaches from Mulberry Orchard, recipes and samples from the Extension Office, and vendors from Rooted in Shelby, including:
Black Paw Farm
Eades Farm
Parker Family Farm
...and more!



Markets will also be held in August and September at different locations. Dates and locations will be listed on our Facebook page. If you sell fresh produce or meats and you're interested in setting up at the market, please contact Elizabeth.

Ladies

Afternoon Out: Christmas in July

Saturday, July 15
11 a.m. - 2 p.m.



Come join the fun and play games with us! We'll be collecting items for Operation Care Women's Shelter. A light lunch will be provided by Humana Healthy Horizons.

Please bring needed items to donate to the Women's Shelter, including:

Toilet paper	Bleach
Paper towels	Wipes
Cleaning supplies	Shampoo
Trash bags	Body wash/soap
Detergent	Toiletries

*Please do not wrap items.



Smart Driver Classroom Course

Wednesday, August 30
12 - 4 p.m.

Take the AARP Smart Driver classroom course and you can save on your car insurance! Refresh your driving skills and knowledge of the rules of the road. Learn techniques for handling left turns, right-of-way, and roundabouts. Discover proven driving methods to help keep you and your loved ones safe on the road. Contact the Extension Office at 633-4593 to register!

Please bring your payment with you at the day of the class to give directly to the instructors.

Cost: \$20 for AARP Members
\$25 for non-members



Sewing Circle

will start in September, with two projects offered each month (an easy one and a more challenging one). The time will be from 1-8 p.m., with a light meal being available at 5 p.m.

Sewing Circle will be held the first Tuesday each month through May. The first session will be held **Tuesday, September 5, 2023**. Stay tuned to see the projects offered!



Join the fun of Extension Homemakers in Shelby County!

The Kentucky Extension Homemakers Association (KEHA) welcomes members regardless age, race, color, national origin, creed, marital status, gender, education or economic status. Anyone - male or female, rural or urban, teenager or senior citizen and in-between, may belong to KEHA.



Join us at our **Ice Cream Social** to kick-off our upcoming program year. Learn what we're all about while enjoying a frozen treat on **August 22, 2023 at 2p.m.** Come and see why you want to be part of this group!

We also have a new club that is forming this fall, **Bunco Club!** And you're invited to join!

You don't need to know how to play to attend - join us and we can teach you. If you are interested in being a part of this new club, please contact the Extension Office for details.



Articles By:

M. Elizabeth Coats

Elizabeth Coats
Cooperative Extension Agent for
Family & Consumer Sciences

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Controlling Japanese Beetles:

In 1916 the Japanese Beetle was introduced to the United States through plant material brought to New Jersey. In Japan, this beetle was not a serious pest. It was kept in check by its natural predators. In the United States, however, it has none – allowing it to spread rapidly through the east half of the country and become one of the most devastating landscape pests.

Beginning in June, adult Japanese Beetles emerge from the ground and feed for a little over a month. They are generalist feeders, targeting over 300 species of plants and devouring leaves, flowers, and old or wounded fruit. While feeding, they emit a pheromone which attracts other beetles to their location, and the attack then becomes a group effort which causes severe damage to the plant. In late summer, they burrow into the ground to lay their eggs, which hatch into white grubs found about 2-6 inches into the soil. White grubs are beetle larva, but not all of the beetle larvae found in our soil is specifically from the Japanese Beetle. The larva can be major pests in turfgrass as they feed on the roots and create dead patches in a lawn. They are especially attracted to golf courses and cut grass which is irrigated through



the summer, as the larva need sufficient soil moisture to prevent themselves from drying out. The grubs stay underground for about 10 months, pupating and emerging as adults the following summer.

Japanese Beetles are tough to control. Not only do they have a wide range of plant species to support them, but the adults are also capable of flight. Removing one population of beetles isn't going to do much in the long run, and destroying the grubs in an area isn't going to prevent adult Japanese Beetles from flying into and feeding on your plants. However, the beetles seem to have preferences on which plants they target for heavy feeding. Careful plant selection can help prevent severe destruction and annual battles with the beetles.

Some plants which will attract Japanese Beetles (and should preferably not be planted in

areas with a high population of Japanese Beetles) include roses, hibiscuses, grapes, plums, peaches, cherries, sassafras, the Japanese or Norway maple, and some crabapple varieties. On the other hand, the common lilac, arborvitae, rhododendron, spruce, pine, oak, persimmon, holly, tulip poplar, and the ash seem to be seldom targeted by the beetle.

It is possible to remove and eliminate the insects by hand, which may be feasible if populations are low and the plantings that need protection are small. However, the presence of beetles on a plant will attract more beetles. Covering prized or highly susceptible plants (like roses) with cheesecloth during peak beetle activity can help shield them from extensive damage. Pyrethroid insecticides can be applied and provide roughly 2 weeks of protection, possibly needing reapplication if beetle populations remain high in the area. Some examples (taken from the publication ENTfact-451, *Japanese Beetles in the Urban Landscape* by D.A. Potter, M.F. Potter, and L.H. Townsend) include cyflutherin (Tempo, Bayer Advanced Lawn & Garden Multi-Insect Killer), bifenthrin



(TalstarOne, Onyx), deltamethrin (Deltagard), lambda cyhalothrin (Scimitar, Spectracide Triazicide), esfenvalerate (Ortho Bug-B-Gon Garden & Landscape Insect Killer) and permethrin (Spectracide Bug Stop Multi-Purpose Insect Control Concentrate and other brands). Carbaryl products like Sevin also work. Keep in mind that insecticides do not discriminate between pests and beneficial insects. If you plan to spray them, avoid doing so when it's windy or when bees are foraging. Botanical alternatives available include Neem products or Pyola. Insecticidal soaps and natural extracts have been found to be relatively ineffective against Japanese Beetles.

Traps are available and sold at many garden centers. Baits for traps can attract beetles using compounds that resemble pheromones or desirable food. However, these baits can be so powerful that they are capable of drawing in thousands of beetles a day – and the

majority of these are not actually caught by the trap. These traps, therefore, will probably do more harm than good as the attracted beetles tear into the nearby vegetation.

Treatment for grubs may be considered if, after summer, a square foot piece of turf is found to have 8 or more grubs within the top 2 inches of soil. Most lawns are capable of outgrowing the damage done by white grubs if their population is not too high and they are kept from being too drought stressed. Fall fertilizer can also help boost the health of cool season turfgrass. Grubs, thankfully, do have natural enemies in the United States. Moles and skunks, however, tend to be pests that are just as unpopular as the grubs themselves. Some available soil treatments include milky disease spore dusts, preventative insecticides applied between June and July and curative soil insecticides applied in early or mid-August.

For more information on Japanese Beetles and white grubs:

- ⇒ [ENTfact-451, Japanese Beetles in the Urban Landscape.](#)
- ⇒ [ENT-10: Controlling White Grubs in Turfgrass.](#)

Beekeepers Association:

The Beekeepers Association meets every 4th **Thursday of the month at 7 p.m.** to discuss everything that is currently relevant in beekeeping. Friendly towards both experienced beekeepers and beginners looking to learn, feel free to join us on **July 27th and August 24th.**

Trouble with Bees?

Spring is the main time for swarms, but they can also happen later in the season. If you believe you've found a swarm of bees, you may call the Extension Office at (502) 633-4593 and we can get you in touch with a local beekeeper. We highly recommend providing pictures so that we can identify them and give beekeepers a heads-up on what kind of equipment they may need.

Trouble With Wasps?

Keep an eye on Paper Wasps which are currently building their nests. Wasps make their nests in the late spring and summer, will reach peak size in fall, then all but the future queens will die in

the winter. With wasps, nests can only be used for one year, and it's a good idea to remove any nests you find in unwanted areas before they reach full strength. Wasps can easily be mistaken for bees and can be attracted to human dwellings in the fall as their natural food sources dwindle.

Upcoming Classes/Events:

Flower Drying Part 1 and 2

Come join Elizabeth Rosenberg at the Extension Office for a 2-part program on dried flowers. Part 1 will discuss techniques for drying flowers while part 2 will be focused on making arrangements with the dried flowers. Part 1 will be on **July 19th at 10:30 a.m.** while part 2 will be announced in the fall.

Simple Floral Arrangements

Learn the elements of floral design while designing your own simple floral arrangement on August 9th at 2 p.m. Due to the cost of materials, this program will cost \$10 per participant and will be limited to 15 people. If you are interested, please call the Extension Office at (502) 633-4593 to sign up.

Master Gardener Association:

The Master Gardener Association meets the **2nd Tuesday of every month at 6:30 p.m.** The next meeting will be on July 11th and the meeting in August will be on the 8th. Both in-person and zoom options are available.

Joint Master Gardener Program:

Experts at the University of Kentucky are currently organizing an **online** (through zoom) multi-county Master Gardener Program starting late this August or early September. Dates and times are still being discussed but have been tentatively suggested for Fridays starting at 9:30 a.m. with each session lasting about 3 hours. If you are interested, please call the Extension Office and we can put you on a list to contact when we have more information.

Articles By: *A. Skye Drane*
Skye Drane
Horticulture Technician

4-H Floral Hall Class Champions

Congratulations to all the 4-H'ers that entered items in the County Fair! If your items qualified to go to the State Fair, we will send you a letter with details about entering your project. The Kentucky State Fair is August 17-27. Cloverville will be located in the South Wing.

Arts and Crafts

- Class 727A: Junior Acrylic - Luke Smith
- Class 729A: Junior Abstract Art - Layla Farmer
- Class 727B: Senior Acrylic - Ashley Haymond
- Class 728A: Junior Watercolor - Stella Franklin
- Class 731A: Junior Self Portrait - Stella Franklin
- Class 747A: Junior Circular Shape - Owen Oliver
- Class 748A: Junior Color Pencil - Layla Farmer
- Class 749A: Junior Pen and Ink - Owen Oliver
- Class 750A: Junior Calligraphy - Avery Oliver
- Class 753A Junior Cotton Linter Bowl - Gabe Guagenti
- Class 757A: Junior Clay Container - Avery Oliver
- Class 760A: Junior Cardboard Structure - Luke Smith
- Class 763A: Junior Art Trends - Caroline Oliver
- Class 764A: Junior Heritage Arts Other - Ava Collard
- Class 764B: Senior Heritage Arts - Ashley Haymond



Crops

- Class 603: Other Grass Hay - Raylon Tucker
- Class 604: Mixed Hay - Luke Smith
- Class 607: Yellow Shelled Corn - Raylon Tucker
- Class 615: Soybeans - Raylon Tucker
- Class 620: Wheat - Raylon Tucker

Electricity

- Class 647: Electromagnetic Current - Luke Smith

Foods

- Class 841: Three Oatmeal Muffins - Mason Way
- Class 843: Three Rolled Biscuits - Avery Oliver
- Class 845: Three Cornmeal Muffins - Mason Way
- Class 847: Three Chewy Granola Bars - Avery Oliver
- Class 848: Brownies - Aubrey Monroe
- Class 849: Snickerdoodle - Avery Oliver
- Class 850: Half Chocolate Cake - Avery Oliver
- Class 854: Cinnamon Twists - Avery Oliver
- Class 857: Bread - Mason Way
- Class 858: Classic Fudge - Avery Oliver



Food Preservation

- Class 861: Dried Apples - Mason Way
- Class 862: Salsa - Bristol Wallace
- Class 863: Dill Pickles - Mason Way
- Class 864: Strawberry Jam - Noah Smith
- Class 865: Green Beans - Bristol Wallace

Forestry

- Class 703: 1st Year Leaf Project - Noah Smith

Geology

- Class 717: 3rd Year Geology - Luke Smith

Home Environment

- Class 894: Simple Cloth item for Home - Ava Collard

Honey

- Class 693: Light Amber Honey - Bristol Wallace

Hort. Photography

- Class 772: Single Color Photograph - Aubrey Monroe
- Class 771: Single Black and White - Avery Oliver

Horticulture

- Class 232: Beets - Noah Smith
- Class 233: Cabbage - Noah Smith
- Class 234: Carrots - Mason Way
- Class 239: Apples - Noah Smith
- Class 568: Annual Container Garden - Bristol Wallace
- Class 569: House plant - Stella Franklin
- Class 570: Hanging Basket - Noah Smith
- Class 573: Upcycle Container Garden - Bristol Wallace
- Class 574: Garden Display - Luke Smith
- Class 583: Snap Peas - Catherine Youngblood
- Class 588: Potatoes - Noah Smith

Needlework

- Class 824: Stamped Embroidery - Elizabeth Wesley

Photography

- Class 765D: Ag Scenic - Ashley Haymond
- Class 768B: Architecture - Addison DeSimone
- Class 769B: Competitive Sports - Avery Oliver
- Class 767C: Culture - Noah Smith
- Class 769F: Dealing with Stress - Luke Smith
- Class 768C: Energy - Addison DeSimone
- Class 765E: Farm Equipment - Nella Skinner
- Class 769D: Healthy Foods - Aubrey Monroe
- Class 764F: Insects - Kendall Monroe
- Class 765A: Livestock - Nella Skinner
- Class 768A: Mechanics - Addison DeSimone
- Class 764E: Native Plants - Nella Skinner
- Class 766F: National/International - Noah Smith
- Class 764D: Natural Scenic - Ashley Haymond
- Class 767E: Patterns/ Designs - Luke Smith
- Class 769A: Physical Activity - Ashley Haymond
- Class 766D: Service - Avery Oliver
- Class 764B: Water - Ashley Haymond
- Class 764C: Wildlife - Ashley Haymond



Sewing

- Class 792: Junior Unit 2 Clothing - Ava Collard
- Class 804: Sr. Match it up Non-Clothing - Lilly Phillips
- Class 805: Sr. Match It Up Clothing - Maddie Greulich
- Class 809: Senior Unit Upcycle It - Lilly Phillips

Trends

- Class 1011: Clover Photography - Ashley Haymond
- Class 1060: Jr 4-H Cake Decorating - Kendall Monroe
- Class 1062: Jr General Cake Decorating - Aubrey Monroe
- Class 1051: Senior Upcycle - Lilly Phillips

Wood Working

- Class 674: Level 1 Made from a Kit - Noah Smith
- Class 678: Level 3 Not from a kit - Luke Smith

State 4-H Officer

Congratulations to Shelby County 4-H Member, Mirabella Koralia who was selected to serve as the 2023-2024 Kentucky State 4-H Treasurer. She will represent the Kentucky 4-H Program across the state in her new role. She was officially sworn in during the Kentucky 4-H Teen Conference in June, held at the University of Kentucky.

State Fashion Revue

Madeline Greulich participated in the State 4-H Fashion Revue during Teen Conference June 12-16. She placed in the Top 4 with her Senior Match It Up Sewing Project that included an olive green jacket, cream blouse and black slacks. This was Madeline's third and final year competing in the State Fashion Revue.

4-H Food -A- Rama

All 4-H members are invited to participate in 4-H Food-A-Rama on July 25 at 10 a.m. This is a fun cooking contest for youth. Participants bring in their favorite recipes so our judges can evaluate their dishes and make their selections. While the judges are at work, a demonstration is presented on a foods topic for the attendees. Afterwards, participants sample all the dishes and vote on their favorites. Prizes are awarded in each category and a Grand Champion is selected. The participants also vote on a "Taster's Choice" award for a special prize. This year's categories include:



- Appetizer
- Bread
- Soup
- Dessert
- Casserole
- Main Dish
- Vegetable/Side Dish
- Miscellaneous (anything that doesn't fit the above categories)

Bring your completed dish and two copies of the recipe for the contest. A 4-Her may enter as many items as he or she wants. A cookbook of all the entries will be sent to the participants following the contest.

Tractor Driving Contest

Congratulations to Shelby Co. 4-H'ers who competed in the C5/C6 Area Tractor Driving Contest in April. Nick Gajdzik and Tanner Parrett will be advancing to represent our Area at the State 4-H Tractor Driving Contest during the KY State Fair.



State Dairy Judging Contest

Congratulations to the Shelby County 4-H Dairy Judging Team on their success at the 2023 KY 4-H Dairy Judging Contest. The team consisted of Shelby County Dairy Club members Caleb Lipps, Adalyn Holt, Virginia Sageser, Sophie Franklin and John Luke Miller. The Junior Team placed 2nd overall. Congratulations to Cloverbud participants Grant Mitchell and Henry Miller.



State Livestock Judging Contest

Congratulations to the Shelby County 4-H Livestock Judging Team on competing at the 2023 KY 4-H Livestock Judging Contest. Senior Team members Bristol Wallace and Cate Noe placed Overall in the Top 20. Bristol placed 6th Overall in Beef. Junior Team members Jorja Gilleo, Elle Gilleo, Sophie Franklin, Mason Way and Nash Wonderlich were 1st Team Overall in Swine with Jorja winning Overall Junior in Swine and Nash placing 6th Overall.

Scholarship Winner

Congratulations to Emma Lawrence for winning the 2023 Kentucky 4-H Foundation Dr. Mark Mains Scholarship. The scholarship was presented at 4-H Teen Conference. Emma will be attending Murray State this fall.

Club Leader Recertification Hours

The recertification deadline for 4-H Livestock, Horse, Dairy and Shooting Sports Club Leaders is Wednesday, August 30th. Please have two hours of continuing education completed by this date. A Recertification Training Form will need to be completed and returned to the Shelby County Extension Office. Forms can be picked up at the Extension Office or email candice.hollingsworth@uky.edu if you would like to receive one by e-mail.



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Articles By:
Regina Browning 
Cooperative Extension Agent for 4-H Youth Development

Candice Hollingsworth 
Cooperative Extension Agent for 4-H Youth Development

Water is Nutrient #1 for Horses

Source: Bob Coleman, UK Extension Horse Specialist
 Horses rely on many nutrients to thrive including protein, fat, carbohydrates, vitamins and minerals. However, water is the most important nutrient. Water accounts for nearly 75% of a horse’s body weight. Most horses need at least 6-8 gallons every day, but the amount required will vary based on weather or diet. In hot weather, horses will need more water, and a horse eating hay requires more than one on pasture. Lactating broodmares always require more water.

Always prioritize fresh, clean water for your animals for many reasons. Adequate hydration reduces the risk of colic and plays a vital role in digestion. Water helps horses regulate their body temperature, lubricates joints, assists in muscle contraction strength and get rid of waste.

Most horse managers easily prioritize clean, fresh water in the barn. They have a daily routine of checking, cleaning and filling water buckets. But outside water may end up being more accidental than routine. You can’t rely on streams and ponds for your water source. Horse traffic can break down stream banks, contaminate the water source and even cause animal injuries. Regularly check stock tanks and troughs, frequently change the water and clean the container.

Stock tank water may get a bit warmer than what some horses prefer, so watching the capacity of the watering device can help. Keep water cooler by changing it more often or having the water refreshed in the waterer more often. This can help provide water horses want to drink. Carefully consider where to dump dirty water in the field so you don’t create muddy areas.

Forages contain moisture and grazing horses will get some daily hydration while munching on pasture. However, still offer free-choice water sources for horses to visit throughout the day.

Learn to recognize dehydration signs in your horses. By the time you see the signs, your horse may have already lost 5% of its body weight. Dehydrated horses appear weak, have sunken eyeballs, dry mucous membranes, slow capillary refill time and an increased heart rate. Pinch the horse’s skin near the base of their neck for two seconds. If the skin stays pinched, your horse most likely needs water and possibly electrolytes.

For more information about horse management, call 633-4593.

Safely Handling Chicks

Source: Jacqueline Jacob, UK Extension Poultry Project Manager

The intestinal tracts of all mammals have various types of bacteria as part of their natural intestinal microflora. There are many opportunities for people, especially young children, to be exposed to these bacteria, such as pets, friends, etc.

Some types of bacteria may cause diseases like salmonella in susceptible humans. When dealing with animals in any situation personal hygiene is important. This is especially true when handling chicks in your backyard and small poultry flocks. Here are some reminders of proper hygiene practices.

Hand-washing is necessary to reduce any risk of bacterial infections. Wash your hands after coming in contact with any animals, birds or eggs. Proper hand-washing techniques include using soap and warm running water and rubbing your hands together vigorously for at least 20 seconds. Make sure you wash the back of your hands and wrists, in between fingers and under your fingernails. Rinse well and thoroughly dry your hands with a paper towel. Turn off faucets with your elbow or a paper towel.

If there is no access to running water, you should use antibacterial hand sanitizers or wipes with at least a 99 percent bacterial kill rate and then wash your hands as described above as soon as possible.

Supervise children when handling birds or animals. Don’t allow them to nuzzle or kiss animals, chicks and ducklings. Don’t allow children to touch their mouths or eyes with their hands during or after handling animals and birds prior to hand washing. Make sure children don’t eat and drink before thoroughly washing their hands.

You can do a few other things to reduce your risk of exposure of bacteria. Always clean and sanitize an incubator prior to incubating eggs and only set clean eggs from a reliable source. To prevent the potential transmission of bacteria from adults and children to your chicks or eggs, make sure to wash your hands prior to handling the eggs or birds. You should always thoroughly clean any surfaces that have been contaminated with animal feces. Clean and sanitize the incubator immediately after use and properly dispose of the shells and eggs that do not hatch.

Reports of True Armyworm in Hay in Central & Western Kentucky

Ric Bessin, Entomology Extension Specialist
 There have been reports 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 of the true armyworm 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 true 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. Insecticides listed below for fall armyworm control are also effective against true armyworm.

Fall Armyworm Control for Alfalfa and Pastures

Fall armyworm is a sporadic late summer fall pest of alfalfa and mixed stand pastures. Best time to scout for this pest is early morning as they hide from the sun at mid-day. Soapy water drenches can be used to flush larvae from the soil. Control should be considered if 2 to 3 larvae per square foot are found.

Fall Armyworm Insecticides	MOA Group	Graze/harvest – Pre Harvest Interval (days)
carbaryl - Sevin XLR, Sevin 4F, etc.	1A	7 for alfalfa (May temporarily bleach tender foliage) 14 days for pasture and grasses for hay
methomyl - Lannate	1A	7 days for grazing or hay (alfalfa)
bifenthrin – Brigade 2E	3A	Not for use on alfalfa 30 days for forage and hay

<i>b</i> -cyfluthrin - Baythroid XL (1 st and 2 nd instars only)	3A	1 day forage 7 days for hay (alfalfa) 0 day forage, 7 days for hay (pasture grass)
<i>g</i> -cyhalothrin – Declare, Proaxis EC	3A	1 day forage 7 days for hay (alfalfa) 0 day forage 7 days for hay (pasture grass)
<i>l</i> -cyhalothrin – Warrior II	3A	1 day forage 7 days for hay (alfalfa) 0 day forage, 7 days for hay (pasture grass)
<i>a</i> -cypermethrin – Fastac EC	3A	3 days for cutting or grazing (alfalfa)
<i>z</i> -cypermethrin – Mustang Maxx	3A	3 days for cutting or grazing (alfalfa) 0 days for cutting or grazing (grass forage and hay)
permethrin – Ambush, Permethin 3.2 AG	3A	0 or 14 days depending on rate used (alfalfa only)
pyrethrins - PyGanic	3A	0 day forage/harvest
Spinosad - Entrust	5	0 days for forage, 3 days for hay
Bt products - Agree WG, Biobit HP, DipelDF, Javelin	11	0 days
methoxyfenozide – Intrepid 2 F	18	0 day forage, 3 days for hay (alfalfa) 0 day forage, 7 days for hay (Grass forage, fodder and hay)
chlorantraniliprole – Coragen, Prevathon, Vantacor	28	0 day alfalfa 0 day for grasses grazing or hay

Articles By: *Corinne F. Belton*
 Corinne F. Belton
 Cooperative Extension Agent for
 Agriculture and Natural Resources



Meet our Summer Intern

Shelby County Extension Office would like to welcome **Madison Goodlett** as our Summer Intern. Madison is working with the 4-H program, but will be working with all program areas as well. She will be assisting with all of our events including fair, 4-H Camp, Day Camp and more.

Madison is from Mount Eden, KY and graduated from Spencer County High School in 2020. She is currently a senior at the University of Kentucky, majoring in Agriculture Education with a double minor in Animal Science and Agriculture Economics. She grew up on her family's farm raising commercial Angus Cattle, operating a small hay production operation, and raising registered Walker Coon Hounds. She was an active FFA member who exhibited market lambs and swine as well as showed Tennessee Walking Horses. She also received various regional, state, and national FFA awards as well as served as an officer on multiple levels. Her combination of love for agriculture, farming, education, youth development, and FFA inspired her to pursue a degree in Agriculture Education. She currently works at the University of Kentucky Meat Lab, assisting in meat processing from start to finish. In her spare time she enjoys farming with her family, reading, shopping, cooking, going on walks, taking spin classes at cycle bar, and spending time with her friends. She loves Dolly Parton, ice cream, anything with sparkles, corgis, and cattle!



SMART DRIVER COURSE

Date & Time:

August 30, 2023 12 - 4 p.m.

Location:

**Shelby County Extension Office
1117 Frankfort Road
Shelbyville, KY 40065**

Register:

**502-633-4593
elizabeth.coots@uky.edu**

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JULY

FCS	01	First Saturday Walkabout, 8 a.m.	Family Activity Ctr.
FCS	07	Shelbyville Pop-Up Farmers Market, 3-6 p.m.	Shelby Co. Health Dept.
HORT	11	Master Gardener Association Meeting, 6:30 p.m.	Extension Office
FCS	15	Ladies Afternoon Out: Christmas in July, 11 a.m.– 2 p.m.	Extension Office
FCS	19	Laugh & Learn Playdate, 10 a.m.	Extension Office
HORT	19	Flower Drying Part 1, 10:30 a.m.	Extension Office
AG	18	Cattlemen’s Association Meeting, 7 p.m.	Extension Office
4-H	25	Food-A-Rama, 10 a.m.	Extension Office
AG	27	C.A.I.P. –DEADLINE project & paperwork submission	Extension Office
HORT	27	Beekeepers Association Meeting, 7 p.m.	Extension Office

AUGUST

FCS	01	Bingocize, 1 p.m. (see page 2 for additional dates)	Extension Office
FCS	04	Canning Basics Workshop, 10 a.m.	Extension Office
FCS	05	First Saturday Walkabout, 8 a.m.	Family Activity Ctr.
FCS	08	Canning Basics Workshop, 6 p.m.	Extension Office
HORT	08	Master Gardener Association Meeting, 6:30 p.m.	Extension Office
HORT	09	Simple Flower Arrangements, 2:00 p.m. (\$10 for materials)	Extension Office
ALL	17— 27	Kentucky State Fair	State Fairgrounds
FCS	17	Laugh & Learn Playdate, 10 a.m.	Extension Office
HORT	24	Beekeepers Association Meeting, 7 p.m.	Extension Office
FCS	30	AARP Smart Driver Course, 12-4 p.m.	Extension Office

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up-to-date information!**



**@Shelby County Cooperative Extension
OR
@Shelby County KY 4-H
OR
@Shelby County Extension Homemakers**

KEY

4-H
4-H Youth
Develop-
ment

AG
Agriculture

HORT
Horticulture

FCS
Family and
Consumer

*** PUBLIC NOTICE-Accommodations will be made to enable persons with
disabilities to participate in programs.**



College of Agriculture,
Food and Environment
Cooperative Extension Service

Cooperative Extension Service

*University of Kentucky
Shelby County
1117 Frankfort Road
Shelbyville, KY 40065-9447*



RETURN SERVICE REQUESTED

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