

2025

48th Annual Kentucky Turf & Landscape Management Short Course

February 18-20, 2025

Hardin County Extension Center
111 Opportunity Way
Elizabethtown, KY



2025
48th Annual Kentucky Turf
&
Landscape Management Short Course

University of Kentucky Martin-Gatton College of Agriculture, Food and Environment

and

Kentucky Horticulture Council

February 18-20, 2025

Hardin County Extension Center

Elizabethtown, KY



SHORT COURSE OVERVIEW

All Times are Eastern Standard Time

Tuesday, February 18 — Pre-Short Course Sessions

8:00 a.m.	Registration Opens	Conference Center Foyer
8:50 a.m.	Pesticide Certification Training	Meeting Room B
3:15 p.m.	Pesticide Certification Exam	Meeting Room B
12:00 p.m.—5:00 p.m.	Exhibitor Set Up	Meeting Room A

Wednesday, February 19

8:00 a.m.	Registration Opens	Conference Center Foyer
8:00 a.m.	Exhibits Open	Meeting Room A
8:50 a.m. — 4:00 p.m.	Golf	Meeting Room B
8:50 a.m. — 4:00 p.m.	Lawn & Landscape	Meeting Room C
8:50 a.m. — 4:00 p.m.	Sports Turf	Sewing Room
10:30 a.m. — 10:50 a.m.	Break and visit Exhibits	
11:40 a.m. — 1:00 p.m.	Lunch On Your Own	
2:50 p.m. — 3:10 p.m.	Break and visit Exhibits	
4:00 p.m.	Exhibits Close	Meeting Room A

Thursday, February 20

8:00 a.m.	Registration Opens	Conference Center Foyer
8:00 a.m.	Exhibits Open	Meeting Room A
8:50 a.m. — 4:00 p.m.	Golf & Sports Turf	Meeting Room B
8:50 a.m. — 4:00 p.m.	Lawn & Landscape	Meeting Room C
10:30 a.m. — 10:50 a.m.	Break and visit Exhibits	
11:40 a.m. — 1:00 p.m.	Lunch On Your Own	
2:50 p.m. — 3:10 p.m.	Break and visit Exhibits	
4:00 p.m.	Event Concludes	

Dear Golf, Sports Turf, and Landscape Professionals:

The 2025 Kentucky Turf and Landscape Management Short Course will be held in-person at the Hardin County Extension Center, in Elizabethtown, KY, on **Wednesday and Thursday, February 19-20, 2025**. You may pre-register by mail or online (<https://kentuckyhorticulturecouncil.ticketspice.com/2025-ky-turf-landscape-management-short-course>).

The event will begin on Tuesday, February 18 with a pre-conference pesticide certification training to prepare attendees to take the Kentucky Pesticide Applicator's Exam. If taking the exam, be sure to go online and study the Core Manual and category specific material. These study materials can be found [here](#) through the University of Kentucky Department of Entomology. If you need a printed version of the study material, contact your local County Extension Office – if you aren't sure where that is, consult [the state map](#).

The initial certification exam will be given immediately after the training on Tuesday, February 18, at approximately 3:15 pm. You must also [register with the Kentucky Department of Agriculture](#) and can now pay online for the exam before the Short Course. Follow the link and register as an applicator if you have not already or login. Then select "Register for a Written Test" and select 2/18/25-Elizabethtown-Turf and Landscape Short Course Only for location. Then select the test Category. For Turf, Lawn and Ornamental, select one of the following: A3 for Applicator, O3 for Operator or N3 for non-commercial. You may prepay the \$25 exam fee online or click the box to bring a check/money order to the exam site.

Short Course sessions include Golf, Sports Turf, and Lawn & Landscape. We have many professionals on the program as well as a number of excellent out-of-state speakers this year and our trade show will feature approximately 20 exhibitors.

Six CEUs have been approved for each day with category specific points available in **Category 3** on both Feb. 19 & 20, **Category 11 (Aerial) on Feb. 19** in Lawn and Golf tracks, and **Category 10 (Demonstration and Research) on Feb. 20** in Lawn and Golf tracks. CEUs will be requested from KY, IN, OH, and TN departments of agriculture as well as Golf Course Superintendents Association of America (GCSAA) and Professional Grounds Management Society (PGMS).

A Trading Post bulletin board will be available to sell used equipment, so bring along any descriptions containing your name, phone number, and the equipment price for posting.

Note that registration does not include lunch. There are several local options for quick service. Please make any room reservations directly with local hotels. Options include several national chains in close proximity. Visit the Elizabethtown Tourism & Convention Bureau website (<https://www.touretown.com/>) to learn more about the local area.

NOTE: we strongly urge you to pre-register before Friday, February 14, as on-site registration will be \$85 per day and space may not be available.

The Short Course event will be held regardless of weather conditions. Due to the cost to host and administrative requirements of this event, we cannot issue refunds. We will, however, accept company substitutions.

We are committed to hosting a safe and enjoyable conference, so please check the Short Course website (<https://kyhortcouncil.org/2025-ky-turf-landscape-management-short-course/>) for additional information about meeting precautions and any meeting updates.

Sincerely,

Your conference planning committee: Amy Aldenderfer, Kenneth Clayton, Bethany Cox, Dakota Moore, Trevor Terry, Jason Vaughn, Beth Wilson, and Dani Zwischenberger

2025

48th Annual Kentucky Turf & Landscape Management Short Course Sponsors

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Silver Level Sponsor



Coffee Break Sponsor



Bronze Level Sponsor



PRE-SHORT COURSE PESTICIDE TRAINING

TUESDAY, FEBRUARY 18

All Times Are Eastern Standard Time

PESTICIDE CERTIFICATION TRAINING

Kara Back-Campbell, Presiding (morning)

Jessica Hopkins, Presiding (afternoon)

Meeting Room B

- 8:50 a.m. Pesticide Labeling, PPE, Calibration, Record Keeping, & Signage - Dr. Joe Omielan, University of Kentucky
- 9:40 a.m. Pesticide Laws & Regulations, Health & Safety, Transportation & Storage, and Professionalism - Tad Campbell, University of Kentucky
- 10:30 a.m. Break
- 10:50 a.m. Insects, Mites, and Miscellaneous Pests of Turf and Ornamentals - Blake Newton, University of Kentucky
- 11:40 a.m. Lunch on your own
- 1:10 p.m. Turf and Ornamental Disease ID and Management - Julie Beale, University of Kentucky
- 2:00 p.m. Weed ID, Life Cycles, Classification, and Management - Jason Vaughn, Powell County Cooperative Extension Service
- 2:50 p.m. Break

PESTICIDE TESTING

Kentucky Department of Agriculture, Presiding

- 3:10 p.m. Pesticide Certification Exam

NOTE: You **must** also [register with the Kentucky Department of Agriculture](#) and can now pay online for the exam before the Short Course. Follow the link above and register as an applicator if you have not already or login. Then select "Register for a Written Test" and select **2/18/25-Elizabethtown-Turf and Landscape Short Course Only** for location. Then select the test **Category**. For Turf, Lawn and Ornamental, select one of the following: A3 for Applicator, O3 for Operator or N3 for non-commercial. You may prepay the \$25 exam fee online or click the box to bring a check/money order to the exam site.

WEDNESDAY CONFERENCE SESSIONS

WEDNESDAY, FEBRUARY 19

3 CONCURRENT SESSIONS — All times are Eastern Standard Time

Concurrent sessions enable participants to attend topics of interest in different sessions.

GOLF

Bryce Roberts, Presiding (morning)

Robbie Smith, Presiding (afternoon)

Meeting Room B

- 8:50 a.m. Is Water an Issue? - Dr. Becky Bowling, University of Tennessee
- 9:40 a.m. PGA Championship Review - John Ballard, Valhalla Golf Club
- 10:30 a.m. Break
- 10:50 a.m. Earthworms, Ants, and Cicada Killers - Dr. Dan Potter, University of Kentucky
- 11:40 a.m. Lunch on your own
- 1:10 p.m. Golf on a Mountaintop Removal Site - Brad Reynolds, Stone Crest Golf Course
- 2:00 p.m. Sprayer Nozzle Technologies - Dr. Tim Stombaugh, University of Kentucky
- 2:50 p.m. Break
- 3:10 p.m. Managing Tree Health Along the Course - Dr. Nicole Gauthier, University of Kentucky

LAWN & LANDSCAPE

Dennis Morgeson, Presiding (morning)

Kelly Jackson, Presiding (afternoon)

Meeting Room C

- 8:50 a.m. Armadillos in Kentucky - Olivia O'Hearn, University of Kentucky
- 9:40 a.m. Bees, Politics, and Pesticides - Dr. Dan Potter, University of Kentucky
- 10:30 a.m. Break
- 10:50 a.m. Lawn Management, People, and the Environment- Dr. Becky Bowling, University of Tennessee
- 11:40 a.m. Lunch on your own
- 1:10 p.m. Weather Stations and Apps - Matt Dixon, University of Kentucky
- 2:00 p.m. The History of Nitrogen Fertilizer: From Urine to Urea - Dr. Beth Guertal, Kansas State University
- 2:50 p.m. Break
- 3:10 p.m. Sprayer Nozzle Technologies - Dr. Tim Stombaugh, University of Kentucky

WEDNESDAY CONFERENCE SESSIONS

WEDNESDAY, FEBRUARY 19

3 CONCURRENT SESSIONS — All times are Eastern Standard Time

Concurrent sessions enable participants to attend topics of interest in different sessions.

SPORTS TURF

Nate Rider, Presiding (morning)

Colby Guffey, Presiding (afternoon)

Sewing Room

- 8:50 a.m. Grow in and Management of a New Professional Soccer Field - Kory Smoot, Lexington Sporting Club
- 9:40 a.m. Survey of Athletic Field Hardness: ECU Student Presentation
- 10:30 a.m. Break
- 10:50 a.m. Weather Stations and Apps - Matt Dixon, University of Kentucky
- 11:40 a.m. Lunch on your own
- 1:10 p.m. IPM and BMPS for Sports Field Managers -Dr. Mike Goatley, Virginia Tech
- 2:00 p.m. Turf Diseases: Common Diseases and Their Management - Dr. Nicole Gauthier, University of Kentucky
- 2:50 p.m. Break
- 3:10 p.m. Problem Solving for the Sports Field Manager: Dr. Mike Goatley, Virginia Tech

2025 Coffee Break Sponsor:

The Syngenta logo features the word "syngenta" in a bold, blue, lowercase sans-serif font. A green leaf icon is positioned above the letter 'g'. A registered trademark symbol (®) is located at the end of the word.

THURSDAY CONFERENCE SESSIONS

THURSDAY FEBRUARY 20 — All times are Eastern Standard Time

2 CONCURRENT SESSIONS

Concurrent sessions will enable participants to attend topics of interest in different sessions.

GOLF & SPORTS TURF

Lorilee Kunze, Presiding (morning)

Kristin Hillabrand, Presiding (afternoon)

Meeting Room B

- 8:50 a.m. Truth, Myth, Legend: Soils Edition - Dr. Beth Guertal, Kansas State University
- 9:40 a.m. Truth, Myth, Legend: Soils Edition - Dr. Beth Guertal, Kansas State University
- 10:30 a.m. Break
- 10:50 a.m. Unconventional Grassing Strategies for Fairways- Dr. Mike Goatley (Virginia Tech) and Kenneth Clayton (University of Kentucky)
- 11:40 a.m. Lunch on your own
- 1:10 p.m. Advancements in Disease Control - Dr. David McCall, Virginia Tech
- 2:00 p.m. Is IPM Important? - Dr. Jonathan Larson, University of Kentucky
- 2:50 p.m. Break
- 3:10 p.m. Strategies to Manage Stormwater to Reduce Downstream Impacts for Golf Courses - Dr. John McMaine, University of Kentucky

LAWN & LANDSCAPE

Steve Musen, Presiding (morning)

Joe Smith, Presiding (afternoon)

Meeting Room C

- 8:50 a.m. Tree Scales: Biology and Management - Ben Knowlton, University of Kentucky
- 9:40 a.m. Healthy Soils Result in Healthy Lawns : Dr. Mike Goatley, Virginia Tech
- 10:30 a.m. Break
- 10:50 a.m. Improving Turf Type Tall Fescue - Dr. David McCall, Virginia Tech
- 11:40 a.m. Lunch on your own
- 1:10 p.m. Strategies to Manage Stormwater to Reduce Downstream Impacts for Lawns and Landscapes - Dr. John McMaine, University of Kentucky
- 2:00 p.m. Kentucky and Texas Bluegrass Breeding and Potential for Turf in KY - Eric Luetyn, University of Kentucky
- 2:50 p.m. Break
- 3:10 p.m. Is IPM Important? - Dr. Jonathan Larson, University of Kentucky

CONFERENCE SPEAKERS

Amy Aldenderfer, County Extension Agent for Horticulture, Hardin County Extension, Elizabethtown, KY

Kara Back-Campbell, County Extension Agent for Horticulture, Taylor County Cooperative Extension Service, Campbellsville, KY

John Ballard, Golf Course Superintendent, CGCS, Valhalla Golf Club, Louisville, KY

Julie Beale, Plant Disease Diagnostician, Department of Plant Pathology, University of Kentucky, Lexington, KY

Dr. Becky Bowling, Assistant Professor, Extension Specialist - Turfgrass Science and Management, University of Tennessee, Knoxville, TN

Tad Campbell, Extension Associate, Department of Entomology, University of Kentucky, Lexington, KY

Lane Casey, Student, Eastern Kentucky University, Richmond, KY

Kenneth Clayton, Extension Associate, Department of Plant and Soil Science, University of Kentucky, Lexington, KY

Brady Cook, Student, Eastern Kentucky University, Richmond, KY

Bethany Cox, Direct Marketing Coordinator, Kentucky Horticulture Council, Lexington, KY

Matt Dixon, Senior Meteorologist, University of Kentucky, Lexington, KY

Conner Fouss, Student, Eastern Kentucky University, Richmond, KY

Dr. Nicole Gauthier, Extension Professor - Plant Pathology Extension Specialist, Department of Plant Pathology, University of Kentucky, Lexington, KY

Dr. Mike Goatley, Professor - Turfgrass Extension Specialist, School of Plant and Environmental Sciences, Virginia Tech, Blacksburg, VA

Dr. Beth Guertal, Project Director, Center of Excellence on Mitigation, Adaptation, and Resilience to Climate Change (CEMARCH), Sustainable Intensification Innovation Lab (SILL), Kansas State University, Manhattan, KS

Colby Guffey, County Extension Agent for Agriculture and Natural Resources, Clinton County Cooperative Extension Service, Albany, KY

Carla Hagan, Assistant Professor, Eastern Kentucky University, Richmond, KY

Kristin Hildabrand, County Extension Agent for Horticulture, Warren County Extension Service, Bowling Green, KY

Jessica Hopkins, County Extension Agent for Horticultuer, Harrison County Extension Service, Cynthiana, KY

Kelly Jackson, County Extension Agent for Horticulture, Christian County Cooperative Extension Service, Hopkinsville, KY

Ben Knowlton, Graduate Research Assistant, Department of Entomology, University of Kentucky, Lexington, KY

Lorilee Kunze, County Extension Agent for Horticulture, Bullitt County Cooperative Extension Service, Shepherdsville, KY

Dr. Jonathan Larson, Assistant Professor, Department of Entomology, University of Kentucky, Lexington, KY

Keaton Lopez, Student, Eastern Kentucky University, Richmond, KY

Eric Luetyn, PhD Student, University of Kentucky, Lexington, KY

Dr. David McCall, Associate Professor, School of Plant and Environmental Sciences, Virginia Tech, Blacksburg, VA

Dr. John McMaine, Associate Professor, Department of Biosystems and Agricultural Engineering, University of Kentucky, Lexington, KY

Konner Miller, Student, Eastern Kentucky University, Richmond, KY

Dakota Moore, Grower Outreach Coordinator, Kentucky Horticulture Council, Lexington, KY

Dennis Morgeson, County Extension Agent for Horticulture, Washington County Cooperative Extension Service, Springfield, KY

Steve Musen, County Extension Agent for Agriculture and Natural Resources, Jessamine County Cooperative

CONFERENCE SPEAKERS

SPONSORS & EXHIBITORS

Extension Service, Nicholasville, KY

Blake Newton, Extension Specialist, Department of Entomology, University of Kentucky, Lexington, KY

Olivia O'Hearn, Graduate Student, Department of Forestry and Natural Resources, University of Kentucky, Lexington, KY

Dr. Joe Omielan, Research Scientist, Department of Plant and Soil Science, University of Kentucky, Lexington, KY

Dr. Dan Potter, Professor Emeritus, Department of Entomology, University of Kentucky, Lexington, KY

Brad Reynolds, Golf Course Superintendent, Stone Crest Golf Course, Prestonsburg, Kentucky

Nate Rider, Country Extension Agent for Agriculture and Natural Resources, Bullitt County Cooperative Extension Service, Shepherdsville, KY

Bryce Roberts, County Extension Agent for Agriculture and Natural Resources, Spencer County Cooperative Extension Service, Taylorsville, KY

Joe Smith, Extension Assistant, Horticulture, Wayne County Cooperative Extension Service, Monticello, KY

Robbie Smith, County Extension Agent for Horticulture, Agriculture and Natural Resources, Nelson County Extension Office, Bardstown, KY

Kory Smoot, Sports Field Manager, Lexington Sporting Club, Lexington, KY

Dr. Tim Stombaugh, Extension Professor, Department of Biosystems and Agricultural Engineering, University of Kentucky, Lexington, KY

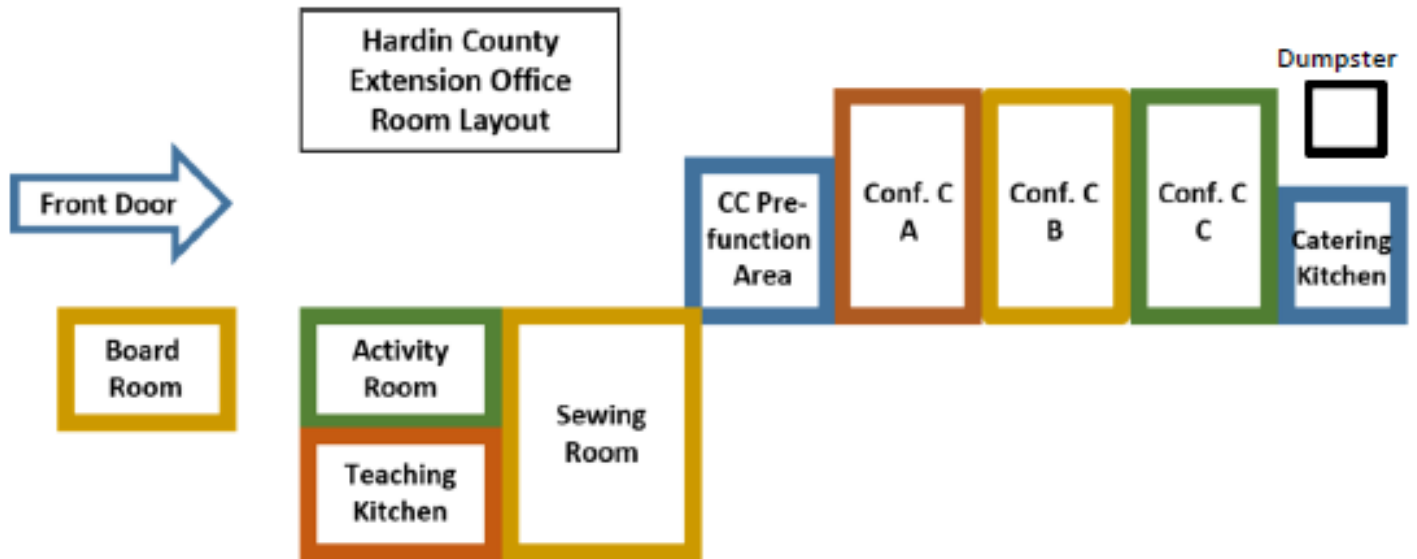
Trevor Terry, Executive Director, Kentucky Horticulture Council, Lexington, KY

Jason Vaughn, County Extension Agent for Agriculture and Natural Resources, Powell County Cooperative Extension Service, Stanton, KY

Beth Wilson, County Extension Agent for Horticulture, Pulaski County Cooperative Extension Service, Somerset, KY

Dani Zwischenberger, Special Projects Coordinator, Kentucky Horticulture Council, Lexington, KY

BUILDING MAP



2025 Lanyard Sponsor:



MAIL-IN REGISTRATION
2025 48th Annual Kentucky Turf & Landscape Management Short Course
Hardin Co. Extension Office, 111 Opportunity Way, Elizabethtown, KY
February 18-20, 2025

Hosted by the Kentucky Horticulture Council and the University of Kentucky Turfgrass Program

NAME (Please print) _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE: () _____ COMPANY _____

E-Mail _____

Pesticide Applicator License Number: _____

What are your top 3 research needs?

1. _____

2. _____

3. _____

Please copy form if needed for all registrants. You can also print forms from the Conference website (<https://kyhortcouncil.org/2025-ky-turf-landscape-management-short-course/>). Registration questions, call: 615-339-3632 or email: dakota@kyhortcouncil.org.

2025 MEETING REGISTRATION

Indicate the number of registrations and total amount.

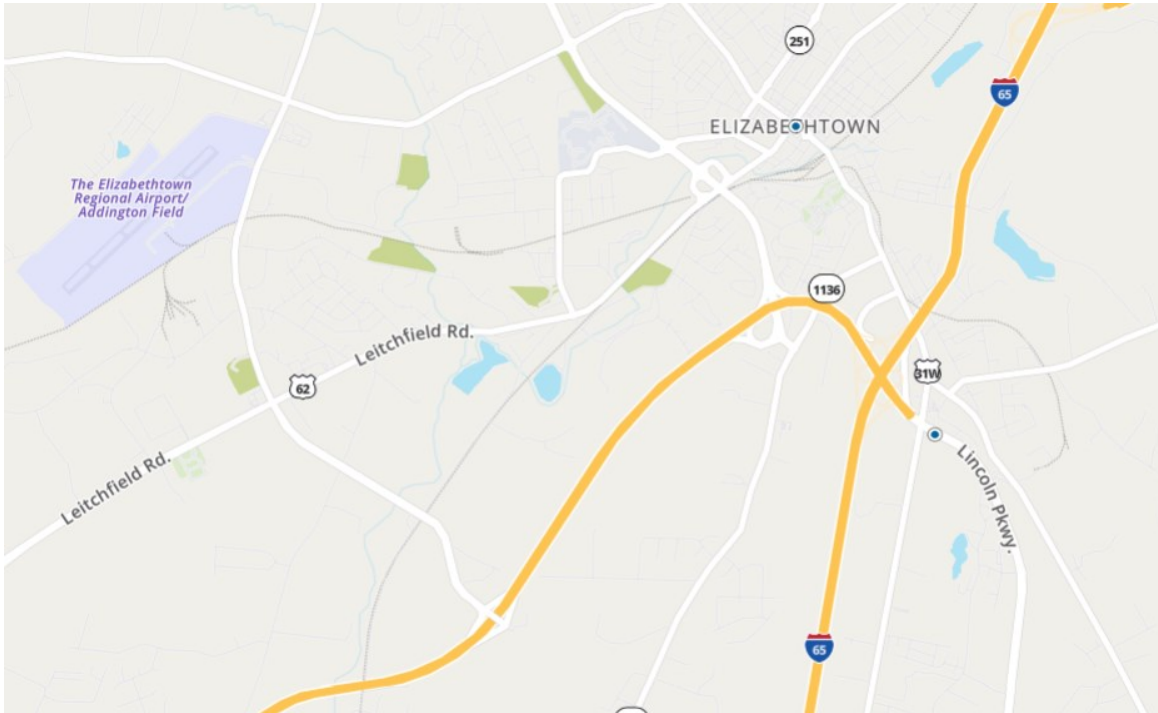
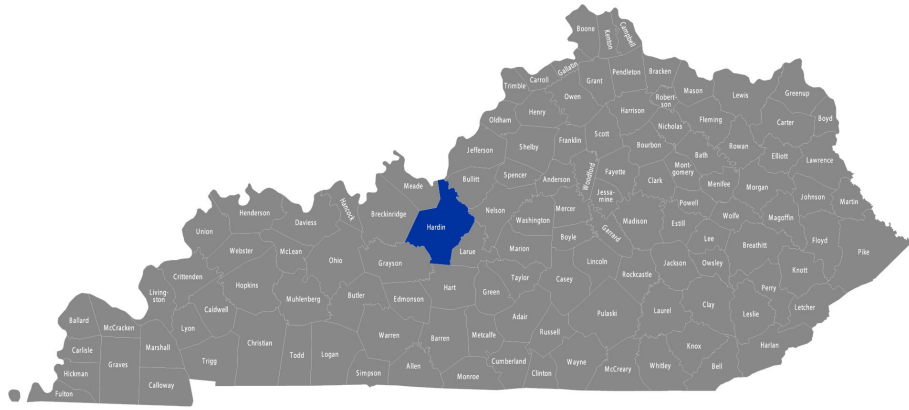
	Number Attending	Total
<input type="checkbox"/> Pesticide Training Only (Tues. Feb. 18) <i>Pesticide testing must be paid for separately to KDA; \$25 test fee due online or on site; must preregister online with KDA in order to take the test.</i>	_____	_____
	X \$65	
<input type="checkbox"/> 1-Day Pass (Wed. Feb. 19)	_____	_____
	X \$65	
<input type="checkbox"/> 1-Day Pass (Thurs. Feb. 20)	_____	_____
	X \$65	
<input type="checkbox"/> 2-Day Full Pass (Wed. Feb. 19 – Thurs. Feb. 20)	_____	_____
	X \$130	
<input type="checkbox"/> 3-Day Full Pass (Tues. Feb. 18 – Thurs. Feb. 20) <i>Includes pesticide training; Pesticide testing must be registered and paid for separately to KDA; \$25 test fee due online or on site;</i>	_____	_____
	X \$195	
<input type="checkbox"/> Kentucky Turfgrass Research Initiative <i>Voluntary contribution to UK's Turfgrass Program for industry research</i> Write in donation _____	_____	_____
TOTAL AMOUNT DUE		<input style="width: 80px; height: 20px;" type="text"/>

*Payment must accompany this form. Please make checks payable to: KY Horticulture Council (KHC).
 Mail form and check to: Kentucky Horticulture Council, PO Box 21736, Lexington, KY, 40522-1736*

Check # _____

***Note:** The Short Course event will be held regardless of weather conditions. Due to the cost to host and administrative requirements of the event, we cannot issue refunds. We will, however, accept substitutions.

Mail-in registration must be received by February 1, 2025. Online registration is open until Friday, Feb. 14, 2025



Hardin County Extension
Center
111 Opportunity Way
Elizabethtown, KY 42701

