



33RD MILAN NO-TILL CROP PRODUCTION FIELD DAY

Thursday, July 25, 2024

8 a.m. – 1 p.m.

North Tract of the AgResearch
and Education Center
at Milan, Tennessee

731-686-7362

MILAN.TENNESSEE.EDU

UTIA INSTITUTE OF
AGRICULTURE
THE UNIVERSITY OF TENNESSEE

UT AGRESEARCH AND UT EXTENSION



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 **syngenta**

The University of Tennessee AgResearch
and Education Center at Milan

Welcomes You

to the 33rd Milan No-Till
Crop Production Field Day.

Since 1981, the Milan No-Till Field Day has hosted visitors from across the country and around the world to the largest field day in the nation dedicated to conservation tillage. In the beginning, we demonstrated how to “no-till,” and basic tours on planter setup and weed control were available.

Since those early years, the field day has progressed to include not only no-till basics but also to show producers how to incorporate the latest technologies into a no-till system.

One constant through the years has been the staff, both present and past, of the AgResearch and Education Center at Milan, and none of the thirty-three No-Till Field Days would have been possible without them. We have the privilege of working daily with some of the finest agricultural scientists in the world, but the behind-the-scenes efforts of our staff make the research program possible. They are a dedicated group of individuals who have a passion for agricultural research, doing the job right, and producing the very best data possible for our producers who utilize this information.

Please allow me to introduce our staff to you and publicly thank them for the great job they do! The current staff of the AgResearch and Education Center at Milan includes:

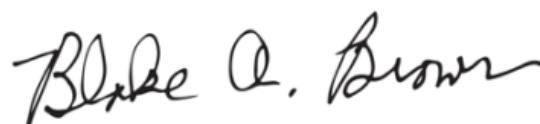
Name	Title	Service Yrs.
Jason Williams	Research Associate	28
Ben Jakubowski	Museum Guide	5
Jordan Lasater	Sr. Plot Caretaker	5
LesLee Smelser	Administrative Assistant	8
Joey Duncan	Sr. Plot Caretaker	4
Blake Smith	Sr. Plot Caretaker	6
Bryan Garren	Research Assistant	3
Allie Wagster	Administrative Assistant	39
Chad Hicks	Sr. Farm Crew Leader	23
Blake Brown	Director	26



We appreciate your attendance and interest today at the nation's largest field day devoted to no-tillage crop production. We hope that you will learn techniques for increasing production, reducing expenses, and improving marketing skills or increasing the efficiency of your crop production operation.

We sincerely appreciate the support of the Milan community and all of its assistance with making this event a success since 1981.

The final pages of the program describe the amenities available during the activities and include a map of the field day site. Please let us know if we can assist you. It is our desire that you have an educational and enjoyable visit to the AgResearch and Education Center at Milan. Thank you for being one of the thousands to visit the nation's largest No-Till Field Day!



Blake A. Brown
Center Director



Hongwei Xin, Dean
Timothy Rials, Associate Dean
Barry Sims, Executive Director
Blake A. Brown, Research Center Director



Thank You!

Special thanks to UT Martin students Zaria Creighton and Moriah Freeman for their designs of the field day logos for this program and the field day caps, respectively.



FIELD DAY ACTIVITIES

Registration Begins	7:00 a.m.
Commercial and Educational Displays	8:00 a.m. to 1:00 p.m.
Research Tours (Tour A-O)	8:00 a.m. to 1:00 p.m. (last tour begins at Noon)

AgResearch and Education Center at Milan Research Tours

This year, 15 research tours will be featured. Tours will start at 8:00 a.m. CDT, Thursday, July 25. The final tours of the day will start no later than 12:00 p.m. Tours are 1 hour in length.

NOTE: Those desiring to take several tours should plan to arrive early. Complete descriptions of tours and tour stops begin on page 7.

AgResearch and Education Center at Milan Overview Tour

Visitors to the Milan No-Till Field Day are invited to participate in the AgResearch and Education Center at Milan Overview Tour for a brief introduction to UT AgResearch. Participants will be given a tour of the AgResearch and Education Center at Milan. Various research projects along the tour route will be described. Participants will board the Overview Tour Trailers on the east side of the exhibit area and south of the West Tennessee Museum. This tour will last approximately 20 minutes and will be provided continuously throughout the day. Tours will be available from 8:00 a.m. through 1:00 p.m.

West Tennessee Agricultural Museum

The West Tennessee Agricultural Museum will be open throughout the No-Till Field Day events between the hours of 7:00 a.m. and 2:00 p.m. Large displays of antique farm equipment and tools used by early West Tennessee settlers are featured. The museum is located on the field day site. Admission is free.

Point Signup and Recertification Requirements for Commercial Applicators:

Individuals who currently have a valid commercial applicator certification card must accumulate credit (points) during the three-year certification cycle to retain their certification into the next certification cycle. For more information concerning point requirements, please visit psep.utk.edu.

Tennessee's Pesticide Coordinator has requested **recertification points** for categories listed in the following table.

	C1	C10	C12
Tour A	1	1	1
Tour B	1	1	1
Tour C	1	1	1
Tour D	1	1	1
Tour E	1	1	1
Tour F	1	1	1
Tour O	1	1	1

Commercial Pesticide applicators **MUST COMPLETE REGISTRATION WITH YOUR CERTIFICATION NUMBER** at the tent where the tour is held to obtain credit.

Rosters containing attendee information will be forwarded to the Tennessee Department of Agriculture so attendees may receive recertification credit.

Certified Crop Adviser Program

Continuing Education Units

The Tennessee Certified Crop Advisor Board has requested the following Continuing Education Units (CEUs): 1.5 nutrient management, 1.5 soil and water management, 8.5 crop management, 2.5 integrated pest management, and 1.0 Professional Development. According to information available on the International CCA Program website, Tennessee approved CEUs are recognized by local boards in all states.

Nutrient management CEUs are available on Tours A and N; soil and water management CEUs are available on Tours G and L; crop management CEUs are available on Tours B, C, F, H, I, J, K, L, and O; integrated pest management CEUs are available on Tours A, D, and E; and Professional Development CEUs are available on Tour M.

Certified Crop Advisors MUST SIGN the sign-up sheets located at the tent where the tour is held to obtain credit.

TOUR A: NO-TILL CORN PRODUCTION

Event	Time/Location
Tour A	8 a.m., Tent 1 9 a.m., Ag Museum

This tour will require 1 hour.

Corn Production Using Broiler Litter

Shawn Hawkins

Professor

UT Department of Biosystems Engineering & Soil Science

Utility of Biologicals in Corn

Justin Calhoun

Assistant Professor

Extension Soil & Cropping Systems Specialist

University of Missouri

Division of Plant Science & Technology

Foliar Diseases and Management in Corn

Heather Kelly

Professor

UT Department of Entomology & Plant Pathology

Nitrogen Application Timings in No-Till Dryland Corn Production Systems

Nutifafa Adotey

Assistant Professor

UT Department of Biosystems Engineering & Soil Science

TOUR B: NO-TILL COTTON PRODUCTION

Event	Time/Location
Tour B	9 a.m., Tent 1 12 p.m., Ag Museum

This tour will require 1 hour.

Cotton Agronomic Update

Bradley Wilson
Cotton Specialist
University of Missouri

Cotton Foliar Disease Update and Management

Amanda Strayer-Scherer
Extension Plant Pathologist
Auburn University

Addressing Compaction in Cotton

Tyson Raper
Associate Professor
UT Department of Plant Sciences

Managing Nematodes in Cotton

Travis Faske
Professor
Extension Plant Pathologist
The University of Arkansas
Division of Agriculture

TOUR C: NO-TILL SOYBEAN PRODUCTION

Event	Time/Location
Tour C	10 a.m., Tent 1 11 a.m., Ag Museum

This tour will require 1 hour.

Soybean Response to Planting Date

Jake McNeal

Assistant Professor

UT Department of Plant Sciences

Desiccating Soybean

Jake McNeal

Assistant Professor

UT Department of Plant Sciences

Foliar Diseases & Management in Soybean

Elias Zucheli

Graduate Research Assistant

UT Department of Entomology & Plant Pathology

Heather Kelly

Professor

UT Department of Entomology & Plant Pathology

Using A.I. to Detect Flower Abortion in Soybean

Avat Shekoofa

Associate Professor

UT Department of Plant Sciences

TOUR D: UPDATE ON PESTICIDE LABELS AND HISTORY OF THE ENDANGERED SPECIES ACT (ESA)

Georgia's Work on Pesticide Use Limitation Areas for Endangered Species

Event	Time/Location
Tour D	8 a.m., Ag Museum 12 p.m., Tent 1

This tour will require 1 hour.

Kim Brown
Extension Specialist
University of Tennessee

Taylor Singleton
Assistant Professor
Extension Sustainability Specialist
University of Georgia

TOUR E: HERBICIDE-RESISTANT WEED MANAGEMENT

Event	Time/Location
Tour E	11 a.m., Tent 2

This tour will require 1 hour.

Larry Steckel
Professor
UT Department of Plant Sciences

Taylor Singleton
Assistant Professor
Extension Sustainability Specialist
University of Georgia

TOUR F: IMPACTS OF THRYVON TECHNOLOGY ON ECONOMICALLY IMPORTANT INSECTS IN COTTON

Event	Time/Location
Tour F	10 a.m., Ag Museum 11 a.m., Tent 1

This tour will require 1 hour.

Influence of ThryvOn on Spider Mites

Chase Floyd

Assistant Research Professor &
State Extension Crop Protection Specialist
University of Missouri

Damage Potential of Stink Bugs in ThryvOn Cotton

Nathan Arey

Graduate Research Assistant
UT Department of Entomology & Plant Pathology

Tobacco Thrips Resistance Update and ThryvOn Performance

Sebe Brown

Assistant Professor
UT Department of Entomology & Plant Pathology

TOUR G: CROP WATER MANAGEMENT

Event	Time/Location
Tour G	8 a.m., Tent 2

This tour will require 1 hour.

Outside of Disease Protection, What Other Benefits Can Xyway LFR Fungicide Help Growers With?

Isha Poudel
Postdoctoral Fellow
UT Department of Plant Sciences

Avat Shekoofa
Associate Professor
UT Department of Plant Sciences

The Costs and Benefits of Cover Crops and No-Till in Irrigated Cotton

Carson Roberts
Assistant Professor & State Extension Specialist for Forage Agronomy
Northern Missouri Research, Extension & Education Center
University of Missouri

Drew Gholson
Assistant Professor & Extension Irrigation Specialist
Coordinator, National Center for Alluvial Aquifer Research
Delta Research & Extension Center
Stoneville, MS

Irrigation Strategies for Corn and Soybean

Jake McNeal
Assistant Professor
UT Department of Plant Sciences

Applying Irrigation Recommendations On-Farm

Brian Leib
Professor
UT Department of Biosystems Engineering & Soil Science

TOUR H: COVER CROPS

Event	Time/Location
Tour H	9 a.m., Tent 2

This tour will require 1 hour.

Results from TN 2023 and 2024 Cover Crop Survey

Chris Boyer

Professor

UT Department of Agricultural & Resource Economics

The Southern Cover Crop Variety Trial: Identifying Top-Performing Species/Varieties Across a 10-State Region

Virginia Sykes

Associate Professor

UT Department of Plant Sciences

Cover Crops and Soil Communities

Shelly Pate Kerns

Assistant Professor

Corn, Cotton, & Grain Sorghum Specialist

Louisiana State University

Cotton Water Dynamics and Cover Crop

Avat Shekoofa

Associate Professor

UT Department of Plant Sciences

TOUR I: COVER CROPS: CURRENT AND FUTURE TRENDS?

Event	Time/Location
Tour I	10 a.m., Tent 2

This tour will require 1 hour.

Trends in Cover Crops in TN and Future Directions?

Forbes Walker

Professor

UT Department of Biosystems Engineering & Soil Science

Policy, Economics, and Logistics of Winter Oil Seeds in Tennessee for Sustainable Aviation Fuel

Aaron Smith

Professor

UT Department of Agricultural & Resource Economics

Agronomic Potential of Winter Oilseed Species/Varieties for Sustainable Aviation Fuel Production in the South

Lexie Worley

Graduate Research Assistant

UT Department of Plant Sciences

Virginia Sykes

Associate Professor

UT Department of Plant Sciences

TOUR J: CLIMATE SMART AGRICULTURE AND SOIL HEALTH

Event	Time/Location
Tour J	11 a.m., Tent 3

This tour will require 1 hour.

Revitalizing Soil Health

Henry Sintim

Assistant Professor

Department of Crop & Soil Sciences

University of Georgia – Tifton Campus

Cover Crops, Soil Health and Crop Yields

Rachel Wooliver

Research Scientist

UT Department of Biosystems Engineering &
Soil Science

Sindhu Jagadamma

Associate Professor

UT Department of Biosystems Engineering &
Soil Science

42 Years of No-Tillage and Cover Cropping: Improved Soil Aeration and Resilience to Extreme Weather Events

Facundo Lussich Rachetti

Graduate Research Assistant

UT Department of Biosystems Engineering &
Soil Science

Cover Crop Nitrogen Calculator

Resham Thapa

Assistant Professor

Department of Agricultural & Environmental Sciences
Tennessee State University

TOUR K: HEMP PRODUCTION

Event	Time/Location
Tour K	8 a.m., Tent 3

This tour will require 1 hour.

Production Considerations to Consider Before Adventuring into Fiber Hemp

Mitchell Richmond

Assistant Professor

UT Department of Plant Sciences

Navigating Risk Management Strategies for Hemp Production

Aaron Smith

Associate Professor

UT Department of Agricultural & Resource Economics

Exploring the Potential of Industrial Hemp in Climate-Smart Tennessee Agriculture

Jashanjeet Dhaliwal

Post-Doc Research Associate

UT Department of Biosystems Engineering & Soil Science

TOUR L: AG WATER TREATMENT: NAVIGATING THE PRODUCE SAFETY RULE

Event	Time/Location
Tour L	9 a.m., Tent 3

This tour will require 1 hour.

Produce Safety Rule Update

Brooke Emery
Extension Assistant
Produce Safety
UT Department of Plant Sciences

Irrigation Water Disinfection

John R. Buchanan
Professor
UT Department of Biosystems Engineering &
Soil Science

TOUR M: THE ONGOING TRANSFORMATION OF UT AGRESEARCH CENTERS THROUGH AMERICAN RESCUE PLAN FUNDING

Event	Time/Location
Tour M	10 a.m., Tent 3

This tour will require 1 hour.

Introduction and Impacts at UT AgResearch and Education Center at Milan

Blake Brown
Research Center Director
UT AgResearch and Education Center at Milan

Financial Challenges of Maintaining Relevance at UT AgResearch and Educational Centers

Keith Carver
Senior Vice Chancellor and Senior Vice President
UT Institute of Agriculture

Breaking the Code – How to Access ARP Funds for UT AgResearch and Who Were the Players?

Hongwei Xin
Dean
UT AgResearch

Cooperative Partners are Imperative!

Charlie Hatcher
Commissioner
Tennessee Department of Agriculture

Impacts on UT AgResearch Facilities

Hongwei Xin
Dean
UT AgResearch

Impacts on UT AgResearch Equipment

Barry Sims
Executive Director
UT AgResearch

TOUR N: SOIL FERTILITY MANAGEMENT

Event	Time/Location
Tour N	12 p.m., Tent 2

This tour will require 1 hour.

Liming Tennessee Soils and Lime Products

Robert Florence
Director
UT Soil, Plant & Pest Testing Center

Validation of Phosphorus and Potassium Fertilizer Recommendations for Soybean

Sydney Logwood
Graduate Research Assistant
UT Department of Biosystems Engineering & Soil Science

Nutifafa Adotey
Assistant Professor
UT Department of Biosystems Engineering & Soil Science

Enhanced Efficiency Nitrogen Fertilizers as Tool to Control Nitrogen Loss in Row Crop Production

Samuel Okai
Graduate Research Assistant
UT Department of Biosystems Engineering & Soil Science

Nutifafa Adotey
Assistant Professor
UT Department of Biosystems Engineering & Soil Science

Using Poultry Litter in Row Crops: Yield and Carbon Storage

Rahul Chandra
Graduate Research Assistant
UT Department of Biosystems Engineering & Soil Science

Shawn Hawkins
Professor
UT Department of Biosystems Engineering & Soil Science

TOUR O: SOIL BORNE SOYBEAN DISEASES

Event	Time/Location
Tour O	12 p.m., Tent 3

This tour will require 1 hour.

Taproot Decline

Trey Price
Associate Professor
Louisiana State University AgCenter
Winsboro, LA

Red Crown Rot

Carl Bradley
Professor
University of Kentucky
Plant Pathology Department
Princeton, KY

Charcoal Rot Infested Field Could Affect Planting Date and Yield

Alemu Mengistu
Research Plant Pathologist
USDA-ARS Soybean Research Unit
Jackson, TN

COMMERCIAL DISPLAYS

AgLaunch
Alliance Ag Equipment
Americot Cotton Seed
BASF
Bayer
Beck's
Chandler Spreaders
Corteva Agriscience, Pioneer & PhytoGen
Farm Credit Mid-America
GreenPoint Ag
Holganix Midsouth
Inco Ag Irrigation & Drainage
Martin Industries LLC
Mid-South Ag Equipment
Primrose Oil Company, Inc
Purple Wave Auction
Rea Agri Service
Short Line Sales
Simmons Bank
Sustain Seed + Soil
Syngenta
Tennessee Farmers Cooperative
Tennessee Tractor, LLC
The KBH Corporation
Titan Ag, LLC
Tri County Equipment
Tyson Foods Local Grain Services
UniSouth Genetics
Vantage Mid South

EDUCATIONAL DISPLAYS

Center for Profitable Agriculture
Farmers for Soil Health
Gibson County Farm Service Agency
Kentucky Department of Ag
Tennessee AgrAbility
TARS - Tennessee Association of Rescue Squads
Tennessee Corn
Tennessee Soybean Promotion Council
TDA Consumer & Industry Services
TDA Invasive Pests
Tennessee Forestry Association
Tennessee Foundation for Agriculture in the Classroom
Union University
USDA, National Agricultural Statistics Service
USDA-NRCS
USDA Rainfall Simulator & Soil Health Trailer
UT AgResearch on CBS & Sustainable Aviation Fuels UT
Construction Science & Management Program (Dept
of Biosystems Engineering & Soil Science)
UT Herbert College of Agriculture
UTIA AgResearch
UTIA Marketing & Communications
UT School of Natural Resources
UTM Alpha Gamma Rho
UTM College of Agriculture and Applied Sciences West
Tennessee Healthcare Milan Hospital

AMENITIES

Field Day Parking

General parking area will be at the No-Till Field Day site near the West Tennessee Agricultural Museum.

Handicapped parking area will be near the Registration Tent to facilitate needs.

Signs will be posted with parking directions.

Food and Refreshments

Food and drink will be available throughout the No-Till Crop Production Field Day. The food tent will be located near the exhibit area. Lunch items may include hamburgers, hot dogs, barbecue bologna, and soft drinks. Local restaurants are also in the vicinity of Milan.

Water coolers and restrooms will be available at many locations over the Field Day site.

Medical Assistance

Emergency medical care and treatment by trained staff will be available near the registration tent.

Aviation Information

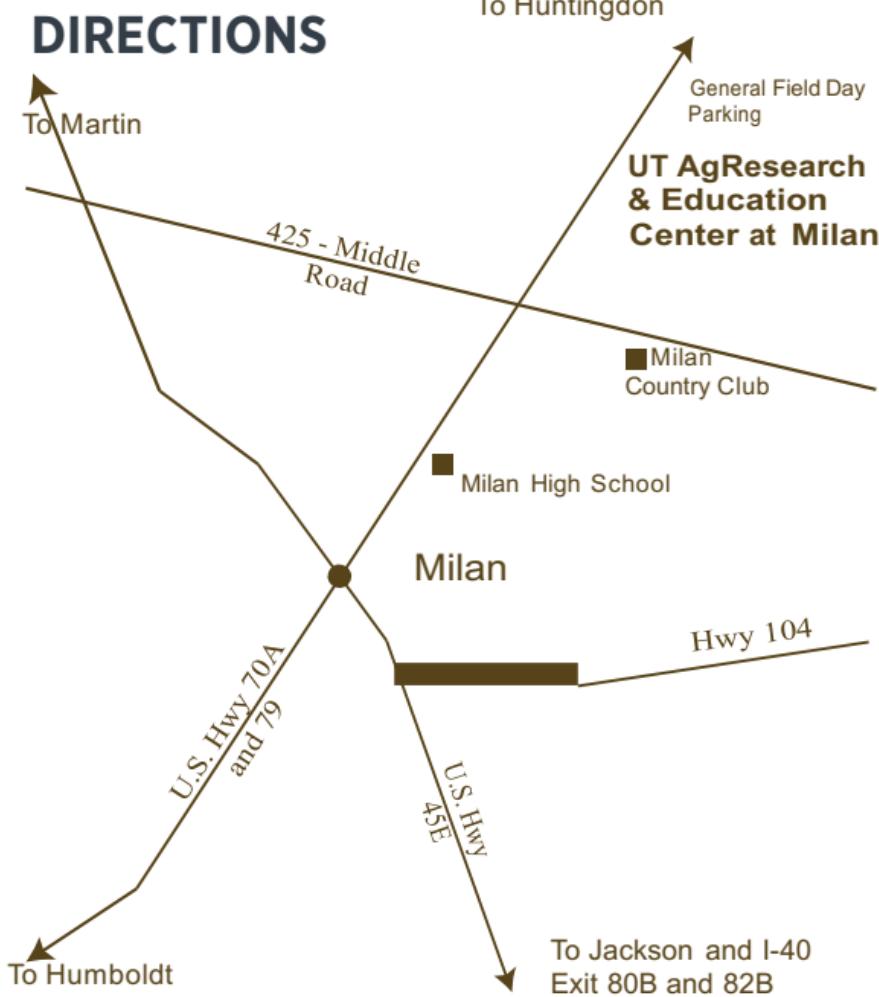
The Gibson County Airport is located six miles west of Milan. Asphalt runway 1/19 is 4,800 ft. x 75 ft. Call 731-686-1524 for information.

The McKellar-Sipes Regional Airport is located 30 miles south of Milan in Jackson, Tennessee, on Airways Blvd./ Highway 70. For information call, U.S. Aviation Services - FBO at 731-427-0191, Jackson Control Tower - FAA at 731-425-9430, or Airport Authority at 731-423-0995.

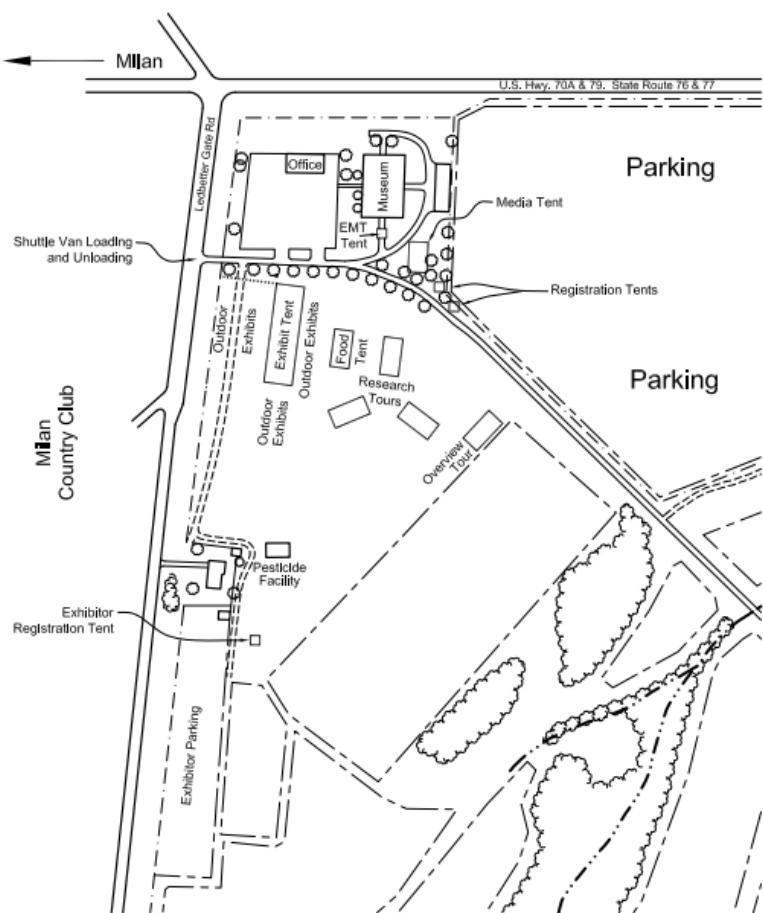
Memphis International Airport is approximately 100 miles southwest of Milan, in Memphis, Tennessee. For more information, call 901-398-3900.

Nashville International Airport is located approximately 145 miles east of Milan, in Nashville, Tennessee. For more information, call 615-275-1675.

FIELD DAY DIRECTIONS



FIELD DAY SITE MAP





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24-0163 06/24 The University of Tennessee is an EEO/AAP/Title VI/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services. All qualified applicants will receive equal consideration for employment and admission without regard to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, gender identity, age, physical or mental disability, genetic information, veteran status, and parental status.