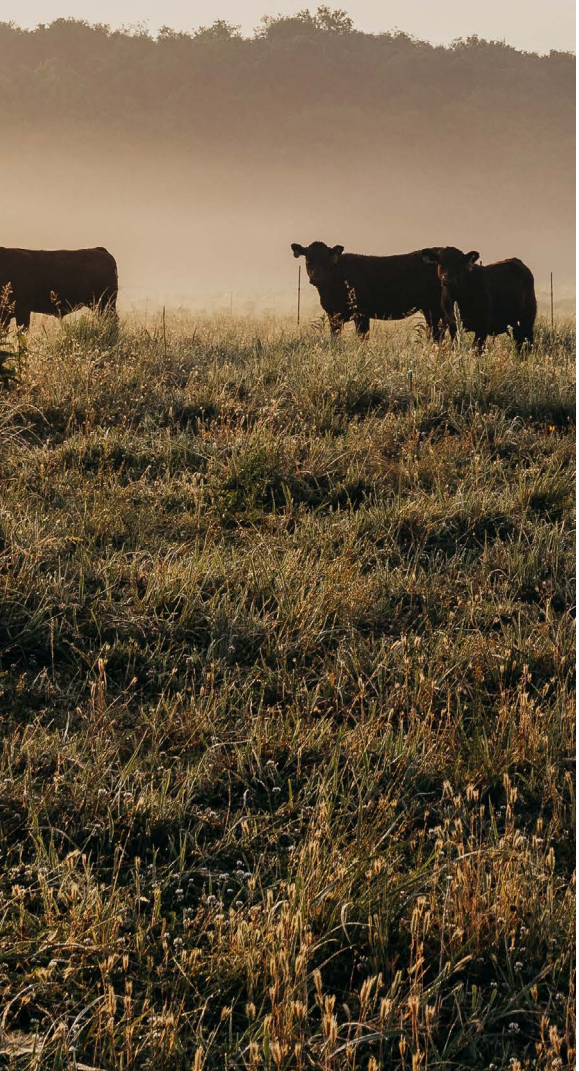

EAST TENNESSEE AGRESEARCH AND EDUCATION CENTER

DISCOVERY

The East Tennessee AgResearch and Education Center (ETREC) serves as an outdoor teaching and research laboratory where the faculty and students of the University of Tennessee Institute of Agriculture learn firsthand about our natural surroundings and test their ideas about improving the quality of life through enhanced and sustainable agricultural production and the wise use of natural resources.

Scientists working at ETREC facilities seek to answer fundamental questions about the nature of nature. Why do crops grow better in certain situations? How can crop performance be improved? How do different feeds and forages produce healthier livestock and better quality meat or milk? What practices enhance our environment?

INNOVATION

Scientific inquiries tested at ETREC have helped improve the nutrition of crops, enhance production techniques, increase the fertility of soil and livestock, and reduce weed and insect pressure on crops and native species. The idea is to produce more while using fewer resources.

While traditional production agricultural research continues, the scientists at the UT Institute of Agriculture are applying their talents to questions that are not traditionally considered agricultural. Current projects include enhancing bioenergy crop production for a future energy-independent nation, producing safer athletic fields for players of all ages, measuring water quality, and understanding the interaction between humans, animals, and agriculture to ensure a sustainable environment.

APPLICATION

From our long-standing position as a leader in soybean and weed sciences research to our recent positioning as among the top programs in the nation for organic crop production, UT AgResearch, through the efforts of ETREC staff, has a continuing record of outstanding outcomes that benefit producers and consumers.

Educational programs such as our field days, on-site workshops and tours, and continuing education courses for agricultural professionals and veterinarians as well as student-focused events are a few of the ways the cutting-edge facilities support those who ultimately benefit the most from the University's land-grant mission.

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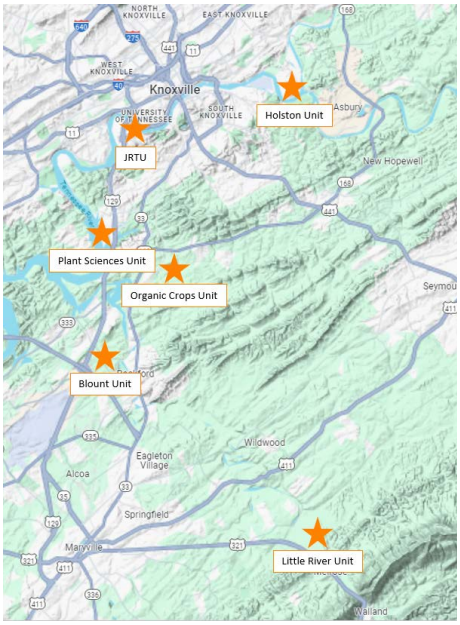
EAST TENNESSEE
UT AGRESEARCH
INSTITUTE OF AGRICULTURE
THE UNIVERSITY OF TENNESSEE



OUR FACILITIES

Of UT AgResearch's ten centers across the state, the East Tennessee AgResearch and Education Center is the university's oldest outdoor agricultural research laboratory. ETREC's nearly 2,000 acres in Knox and Blount counties includes six different units that accommodate a range of research and teaching needs, regional UT Extension activities, and industry gatherings. The individual facilities are the **Holston, Plant Sciences, Organic Crops, Blount, Little River Animal and Environmental**, and the **Johnson Animal Research and Teaching** units.

ETREC also includes the Lindsay B. Young Beneficial Insects Laboratory, which is helping rid the region of invasive non-native species through their naturally occurring insect enemies. One project is working to save the majestic hemlocks of the Great Smoky Mountains National Park. The UT Center for Athletic Field Safety helps improve the quality and safety of various sports turfs, including grass and artificial fields.



OUR RESEARCH

Cattle - Forage testing and production, early embryonic survival, Angus cattle performance and production prevention of mastitis in dairy cattle the effect of cow comfort on productivity

Crops - Weed control in grain crops, turfgrasses and warm-and cool-season pastures genetic selection for healthier soybean products, development of bioenergy crops, season extension for tomatoes, lettuce and strawberries, rainwater collection for irrigation, development of bio-pesticides, efficiency of nitrogen fertilization, enhanced organic crop production

Community - Interaction between animals and the environment, best management practices for riparian buffers, monitoring water quality, hydrogen fuel demonstration bio-diesel research

OUR ECONOMIC IMPACT

The work performed at ETREC and other UT AgResearch facilities helps drive the sustainability of Tennessee's nearly $89 billion agricultural-based economy. Considering that ETREC operates on a total annual budget of approximately $3.7 million, that's quite a return on investment in agricultural research in East Tennessee and beyond. Farmers and industries that depend upon agricultural research such as retailers and manufacturers of foods and beverages, apparel and textiles and forest products account for 16 percent of Tennessee's economic activity.

For more information visit ETREC online at https://east.tennessee.edu or find us on Facebook.

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