

ASABE AIM Technical Tours

Participation will be on a first to register basis. ASABE reserves the right to cancel tours due to low attendance or unforeseen circumstances. Refunds will be made only if the tour is canceled. Every attempt will be made to conduct these registered tours.

T#8-Eastern Nebraska Research & Extension Center (ENREC) @ Mead, NE Sensor-Based N Management, Carbon Sequestration and Drones

Date: Monday, July 13

Time: 2:00PM – 6:00PM



Learn about the University of Nebraska's research in sensor-based Nitrogen management, including fertilizations. This session will include information on how Nebraska Extension is working directly with producers in conducting research trials on their own fields focusing on improving the efficiency of nitrogen fertilizer use through PROJECT SENSE (Sensors for Efficient Nitrogen Use and Stewardship of the Environment). This tour will also include the opportunity to see and learn about the long-running carbon sequestration research project and hear about the findings from both dryland and irrigated cropping systems. Participants in this tour will also see a demo of various drones including a spray drone, and drones of various sizes that are equipped with some unique capabilities and characteristics. Learn how unmanned aircraft and sensors are utilized in agricultural research and Extension education. This tour will take place at the Eastern Nebraska Research and Extension Center near Mead, NE.



Minimum #: 20 Maximum #: 45

Requirements: Participants must be above age of 18 years old, able to take walking tours and manage stairs, wear closed toe shoes, and no shorts. No back packs are permitted at company sites (you can leave bags on bus). All tour attendees are responsible for their personal property while on tour. Taking pictures is not allowed except as noted by the tour guides.

Cost: \$25 per person. Includes: Roundtrip transportation between CHI & ENREC site.

T#9-Eastern Nebraska Research & Extension Center (ENREC) @ Mead, NE

The Beef State - Empowering our #1 Ag Industry

Date: Tuesday, July 14

Time: 2:00PM – 6:00PM



Travel to the Eastern Nebraska Research and Extension Center near Mead, NE for a tour highlighting beef cattle research and teaching activities - as we focus on issues that are important to producers and consumers. See and learn about research barns measuring methane outputs, resistivity arrays used for monitoring groundwater near runoff holding ponds, use of biochar to improve nutrient capture, integrated systems research, and other beef production research topics.

Minimum #: 20 Maximum #: 45

Requirements: Participants must be above age of 18 years old, able to take walking tours and manage stairs, wear closed toe shoes, and no shorts. No back packs are permitted at company sites (you can leave bags on bus). All tour attendees are responsible for their personal property while on tour. Taking pictures is not allowed except as noted by the tour guides.

Cost: \$25 per person. Includes: Roundtrip transportation between CHI & ENREC site.

***T#10-Eastern Nebraska Research & Extension Center (ENREC) @ Mead, NE
In-Field Research, Teaching, and Nebraska Ag***

Date: Wednesday, July 15

Time: 2:00PM – 6:00PM



The 9,600-acre University of Nebraska Eastern Nebraska Research and Extension Center (ENREC) near Mead, NE is one of the most unique research and Extension facilities in the United States. We will start with a look at how Nebraska's ag industry ranks nationwide and the impact it has across the world. Then we will head out to Crop Management Diagnostic Clinic plots to learn about ongoing, long-term, in-the-field education at ENREC. Enter soil pits

to learn about soil formation, landscape position and history of the Todd Valley. See a live demonstration of a hail machine that simulates damage. Learn about research, education and training to mitigate the devastating impact of hard rain and hail and learn how the University of Nebraska is working with producers to track the devastating Soy Gall Midge and the research that is being conducted.



Minimum #: 20 Maximum #: 45

Requirements: Participants must be above age of 18 years old, able to take walking tours and manage stairs, wear closed toe shoes, and no shorts. No back packs are permitted at company sites (you can leave bags on bus). All tour attendees are responsible for their personal property while on tour. Taking pictures is not allowed except as noted by the tour guides.

Cost: \$25 per person. Includes: Roundtrip transportation between CHI & ENREC site.

T#11-Eastern Nebraska Research & Extension Center (ENREC) @ Mead, NE

State of the Art Field-Based Research

Date: Thursday, July 16

Time: 8:00AM – 12:00PM



Visit the state of the art field phenotyping research facility at the University of Nebraska Eastern Nebraska Research and Extension Center near Mead that monitors and measures the traits of crops with an aerial Spidercam. This unique one-acre field site is one of only two field-based phenotyping research sites in the U.S. that features an automated cable suspended carrier system (Spidercam®, Austria) that holds multiple cameras and sensors (e.g., visible RGB, near infrared, Lidar, multispectral, and hyperspectral), which can be accurately positioned over a small plot for sensing and plant imaging. The site is also equipped with an automated weather station, and an advanced subsurface drip irrigation system for precise water and nutrients delivery at plot level (15*20 ft²). This tour also includes Flex-Ro (Flexible Robotic Unit), a robot about the size of a small tractor that is being designed and tested to help farmers maximize crop yield, use fewer pesticides, and manage the industry's dwindling labor market.

Minimum #: 20 Maximum #: 45

Requirements: Participants must be above age of 18 years old, able to take walking tours and manage stairs, wear closed toe shoes, and no shorts. No back packs are permitted at company sites (you can leave bags on bus). All tour attendees are responsible for their personal property while on tour. Taking pictures is not allowed except as noted by the tour guides.

Cost: \$20 per person. Includes: Roundtrip transportation between Hilton & ENREC site.