

ANIMAL & DAIRY SCIENCES

Mississippi State University



OUR MISSION:

Our faculty are committed to serving the citizens of this state through teaching, research and extension programs. Research and extension centers are located strategically throughout the state. Animal research facilities at the Leveck Animal Research Center, Bearden Dairy Cattle Research Center, Prairie Research Unit, Brown Loam Research Station, and the White Sands Unit give faculty opportunities to investigate the challenges facing the livestock industry.

Our Mission is to provide science-based solutions for animal agriculture through innovative and effective education, research and extension programming. Our Vision is Building the Future of Agriculture.

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COLLEGIATE CATTLEMAN'S TRIP TO NCBA



Here are a few snapshots of our trip to the 2019 Cattle Industry Convention and NCBA Trade Show in New Orleans, LA. We met many important people within the beef industry, enjoyed the trade show that covers 8 acres, learned about many hot topics and issues impacting our industry, and of course, ate some good food!



LOCAL AND GRASSFED BEEF WORKSHOP

MON, MAR 11 AT 9 AM

Local and Grassfed Beef Workshop

Mississippi State University · Starkville

This workshop will focus on topics important to cattle producers interested in producing and selling local and grassfed beef.

Topics include:

- Health
- Nutrition
- Marketing
- Beef processing.

A complete schedule is coming soon. Registration is \$35 and limited to 35 participants.



ACADEMIC QUADRATHLON



Above: Jason Sousa

Below: Mallorie Humble, Hannah Kruse, Jason Sousa, and Sabrina Taylor

The Mississippi State Animal and Dairy Sciences Academic Quadrathlon team competed at the annual meeting of the Southern Section of the American Society of Animal Science January 25 through 27, 2019. The event was held in Stillwater and Oklahoma City, Oklahoma. Each team consisted of four students, and representing Mississippi State were Hannah Kruse, Mallorie Humble, Jason Sousa, and Sabrina Taylor. There were fourteen teams from the southeast competing this year.

Mississippi State's team did very well, placing 2 in the oral presentation, 3 for the written exam, 4 for the quiz bowl, and 6 for the lab practicum. Overall, the team tied for 3rd with North Carolina State University, however, the quiz bowl placing was used as a tie breaker giving Mississippi State an overall 4th place.



MISSISSIPPI STATE UNIVERSITY EQUESTRIAN TEAM



The first competition of the semester was a huge success! The English team finished 8th overall and Western was Reserve High Point Champions for both competitions! Hart Daniels earned two High Point Rider Awards!

- Jessica Goodwin 6th Intermediate Flat and Fences
- Alyson Addy 6th Novice Fences and 2nd in Flat
- Emili McClure 4th in Novice Fences and 5th in Flat
- Juliann Scott 6th in Advanced WTC
- Cecilia Collins 5th in Advanced WTC
- Savanna Blackburn 3rd Beginning WTC
- Mary Allison Page 3rd Beginning WTC
- Brantley McGee 5th WT
- Jada Swanier 6th WT
- Hart Daniels 2nd and 4th Reining, 1st and 1st in Open Horsemanship, High Point Rider for both shows
- Anna Claire Tucker 4th and 5th Reining, 5th and 4th in Open Horsemanship
- Juliann Scott 6th and 4th in Novice Horsemanship
- Madison Eckloff 2nd and 6th in Advanced Horsemanship
- Savannah Yonge 4th and 5th in Intermediate II Horsemanship
- Taylor Perry 3th and 1st in Intermediate II Horsemanship
- Ashley Ackerman 1st in Intermediate II Horsemanship
- Savanna Blackburn 2nd in Beginner Horsemanship, 1st in Intermediate I Horsemanship
- Brantley McGee 2nd in Beginner Horsemanship
- Jada Swanier 5th in Beginner Horsemanship
- Taelyr Harris 6th in Beginner Horsemanship



STRESS MANAGEMENT SUMMIT



The Dairy staff learned Farm Stress Management Summit in snowy Michigan this week! We've covered some heavy, but timely and important, topics. One bright note: The need for this event was seen and about 100 Extension educators from around the country attended because we wanted to learn how to better help our producers. We're now trained to coordinate workshops on this topic so if you see a need for that in your area, please let me know here or at amanda.stone@msstate.edu. If you want to talk on an individual level, I am always here for you. I am so grateful to SAMHSA for allowing Drs. Buys, Hardman, and Seitz and Mary Nelson Robertson the opportunity to work in this area to extend knowledge and change lives. Also beyond grateful to you dairy producers for everything you do each day.



UPCOMING EXTENSION EVENTS

Beef Extension - Dr. Brandi Karisch

Jan. 31 - Feb. 11: Dixie National Junior Round Up and open Livestock Shows, Jackson

Feb. 8 - Feb. 9: Mississippi Cattlemen's Association Convention, Jackson

Mar. 7: Hinds Bull Test & Spring BCIA Bull Sale, Raymond

Mar. 14 - Mar. 16: MSU Artificial Insemination School

Phone: (662) 325-7465 or brandi.karisch@msstate.edu

Beef Calendar: <http://extension.msstate.edu/livestock/beef/beef-calendar>

Dairy Extension - Dr. Amanda Stone

Phone: (662) 325-8773 or Email: amanda.stone@msstate.edu Website: Phone:

(662) 325-8773 or Email: amanda.stone@msstate.edu Website:

<http://extension.msstate.edu/dairy>

<http://extension.msstate.edu/dairy>

4-H Events - Dr. Dean Jousan

February 2 - 17, 2019: Dixie National Livestock Show and Rodeo, MS State Fairgrounds, Jackson,

February 7, 2019: 2019 Dixie National Sale of Junior Champions, MS State Fairgrounds, Jackson

Phone: (662) 325-2424

Email: dj230@msstate.edu [www.http://extension.msstate.edu/4-h](http://extension.msstate.edu/4-h)

Equine Events - Dr. Clay Cavinder

April 6, 2019: HANDS ON HORSES, MAFES Horse Unit, Starkville, MS

Contact Dr. Cavinder for information about programs and events at (662) 325-7566 or email clay.cavinder@msstate.edu

Website: <http://extension.msstate.edu/agriculture/livestock/equine/upcomingprograms>

2019 Refereed Publications

- Mayo, L. M., W. J. Silvia, D. L. Ray, B. W. Jones, **A. E. Stone**, I. C. Tsai, J. D. Clark, J. M. Bewley, and G. Heersche Jr. Automated estrous detection using multiple commercial precision dairy monitoring technologies in synchronized dairy cows. *Journal of Dairy Sciences*. 2019. J. Dairy Sci. 102:1–12. <https://doi.org/10.3168/jds.2018-14738>
- Yang, Zhongyue, Md. Shamimul Hasan, John K. Htoo, **Derris D. Burnett**, **Jean M. Feugang**, **Mark A. Crenshaw**, and **Shengfa F. Liao**. Effects of dietary supplementation of L-methionine vs. DL-methionine on performance, plasma concentrations of free amino acids and other metabolites, and myogenesis gene expression in young growing pigs. *Translational Animal Science*. Transl. Anim. Sci. 2019.3:113–123. doi: 10.1093/tas/txy109.
- Gastal, G.D.A., **J.M. Feugang**, F.L.N. Aguiar, G.M. Ishak, **C.A. Cavinder**, **S.T. Willard**, **P.L. Ryan**, E.L. Gastal. Effect of cryopreservation techniques on proliferation and apoptosis of cultured equine ovarian tissue. *Theriogenology*. <https://doi.org/10.1016/j.theriogenology.2018.11.034>.