ANIMAL & DAIRY SCIENCES

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MISSISSIPPI STATE UNIVERSITY
The livestock judging team just returned from a successful trip to Harrisburg, PA for the Keystone International Livestock Exposition! We are honored to have had the high individual in cattle and the 2nd high individual in sheep! Full results are as follows:

**Team:**
- 3rd high team in oral reasons
- 4th high team in hogs
- 6th high team overall

**Individual Results:**
- **Cody Maddox** - 1st in cattle, 2nd Angus division, 5th hogs, 8th reasons
- **Logan Strock** - 2nd in sheep
- **Gresham Stephens** - 9th in Angus division
Congrats to the Livestock judging team at Peach State Livestock Judging Contest hosted at the Georgia National Fair in Perry, GA! Detailed results are listed below:

Champion Team-Cattle
Champion Team-Swine
Champion Team-Sheep/Goats
Champion Team-Oral Reasons
Champion Team Overall

**Abigail Jenkins** - 1st High Individual Overall, 1st in Cattle, 1st in Oral Reasons, 2nd in Swine, 3rd in Sheep/Goats

**Logan Strock** - 4th High Individual Overall, 2nd in Cattle, 5th in Sheep/Goats, 5th in Oral Reasons

**Mikaila Walker** - 6th High Individual Overall, 3rd in Cattle

**Gresham Stephens** - 8th High Individual Overall, 5th in Cattle

**Cody Maddox** - 9th High Individual Overall, 4th in Sheep/Goats, 4th in Oral Reasons
Nine youth completed the 4-H/FFA Replacement Beef Heifer Development Contest and were awarded prizes at the 2018 Mississippi State Fair. The contest involved daily management of three beef heifers over 10 months. At the end of the contest, youth submitted a record book (30% of score) and had their heifers evaluated (20% of score) by a panel of beef producers. The final phase of the contest consisted of a presentation given to the judges (50% of score) defending their management decisions.

Sponsors for this contest included: B&B Cattle Co.; Bouie River Beefmasters; Campo Farms; Carcass Performance Partners Bull Sale (Rocky Hill Farms); Herrington Brothers; McDaniel Farms; Mississippi Ag; Mississippi Simmental & Simbrah Association; Mississippi State University Extension; Mississippi Cattlemen’s Association; American Livestock Insurance; PMCC, LLC; Red Fox Farm; Southeast Mississippi Livestock; Southern Producers Heifer Sale Group; and T. Smith C Company.

Youth ages 14-18 as of January 1, 2018, are eligible to compete in the 2018-2019 Contest. The entry deadline is November 1, 2018, so contact your local Extension office or FFA advisor to get an application to be a part of this unique contest.
Dr. Brittni Littlejohn is a Postdoctoral Associate at Mississippi State University working with Dr. Scott Willard and Dr. Caleb Lemley. Dr. Littlejohn earned a Ph.D. in Physiology of Reproduction from Texas A&M University in May of 2018.

Her graduate work focused on the influence of prenatal transportation stress on postnatal temperament, stress response, immune response, metabolism, and reproductive endocrinology. She evaluated differential methylation of DNA as a mechanism of phenotypic differences observed in prenatally stressed calves. Dr. Littlejohn is stationed off-campus at the USDA-ARS Livestock Issues Research Unit in Lubbock, Texas.

Her postdoctoral research will primarily focus on generating a noninvasive model to induce liver abscesses in cattle to evaluate antibiotic alternative treatments for liver abscesses and utilizing biophotonic methods to track the colonization of liver abscess-causing bacteria.

Dr. Littlejohn is fundamentally interested in how the prenatal environment shapes postnatal outcomes and in improving livestock health and productivity. She will be visiting campus during October and November.
Hail State and Drink Milk!

Please consider buying a t-shirt from the website below. ONE HUNDRED PERCENT of proceeds will be used to donate dairy products to Mississippi food pantries. This not only will help some people get some milk on their tables, but will also help move some product off the shelves for our dairy producers. We sold so many shirts at State Fair this weekend so we don’t have all the colors/sizes left, but I’ll be putting another order in soon to make sure we can meet everyone’s orders that hopefully will start coming in via the website today! Please make sure the address you put on the form is correct so your shirt doesn’t get lost in the mail. THANK YOU for supporting the dairy industry!

register.extension.msstate.edu/hail-state-and-drink-milk

For more information, contact Dr. Amanda Stone at amanda.stone@msstate.edu.
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https://www.facebook.com/Mississippi-State-University-Animal-Dairy-Sciences-153818701305363/

https://www.youtube.com/user/MSUAgandLifeSciences

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https://twitter.com/MSU_AG
NEW COURSE OFFERING FOR ANYONE INTERESTED IN VET SCHOOL OR PURSUING A CAREER WITH LIVESTOCK

THE DETAILS
Immunology and Disease in Large Livestock Species
Spring 2019 - ADS4633/6633 - MWF 10 to 10:50 - Dr. Stone
Also being offered online (Campus V) for schedule flexibility

TOPICS WILL INCLUDE
- The function and dynamics of the cattle and equine immune systems and what mechanisms aid in detection and defense within the body
- How vaccines work, how they differ, and when they are appropriate to use
- Differences in antibiotics, appropriate uses, and the importance of withholding
- Various diseases and health issues within equine and beef and dairy cattle, including why, when, and how these problems occur and their impact
- Why disease is an animal welfare issue.
- What are practical methods of disease control and their importance

MISSISSIPPI STATE ANIMAL & DAIRY SCIENCES
CONTACT DR. STONE AT AES784@MSSTATE.EDU FOR MORE INFORMATION
UPCOMING EXTENSION EVENTS

Beef Extension - Dr. Brandi Karisch & Cobie Rutherford
November 8: Beef Cattle Improvement Association Bull Sale, Raymond
November 12-13: Cattlemen’s College, West Point and Hattiesburg

Phone: (662) 325-7465 or brandi.karisch@msstate.edu
(662) 325-4344 or cobie.rutherford@msstate.edu
Beef Calendar: http://extension.msstate.edu/livestock/beef/beef-calendar

Dairy Events - Dr. Amanda Stone

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

4-H Events - Dr. Dean Jousan
November 2-5: National 4-H Dairy Quiz Bowl & Dairy Judging Contest, Louisville, KY
November 12-14: National 4-H Skill-a-thon Contest, Louisville, KY

Phone: (662) 325-2424
Email: dj230@msstate.edu
www.http://extension.msstate.edu/4-h

Equine Events - Dr. Clay Cavinder

Contact Dr. Cavinder for information about programs and events.

Phone: (662) 325-7566 or clay.cavinder@msstate.edu
Website http://extension.msstate.edu/agriculture/livestock/equine/upcoming-programs
2018 Refereed Publications


Griffin, Courtney M., BS; Jenna A. Scott, BS; Brandi B. Karisch, MS, PhD; Amelia R. Woolums, DVM, MVSc, PhD, DACVIM, DACVM; John R. Blanton, MS, PhD; Ray M. Kaplan, DVM, PhD, DEVPC, DACVM; William B. Epperson, DVM, MS, DACVP (Epidemiology); David R. Smith, DVM, PhD, DACVP (Epidemiology). A randomized controlled trial to test the effect of on-arrival vaccination and deworming on stocker cattle health and growth performance. *The Bovine Practitioner*, Vol. 52, No. 1.


2018 Refereed Publications


2018 Refereed Publications


2018 Book Chapters: